

WITTGENSTEIN AMONG THE SCIENCES

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Philosophy and Method in the Social Sciences

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Wittgenstein among the Sciences

Wittgensteinian Investigations into the
'Scientific Method'

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ASHGATE

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Preface

[The very nature of philosophical investigation] requires us to travel over a wide field of thought criss-cross in every direction.

Ludwig Wittgenstein, *PI*, Preface.

This book is a Wittgensteinian investigation of the concept of ‘science’, based around exemplars and cases.

Nevertheless, there is something inherently paradoxical about writing a *book* with the ambition of the present work. The paradox is of the same general nature as that that faced Wittgenstein, and that led him in his later period to not finish any work. The problem is that there is something reificatory, dangerous, about writing a book when one believes, as I do, that the book can have no ‘positive’ task. ‘Negative theology’ offers a kind of model here, but not perhaps a 100 percent happy one: My, resolutely/steadfastly-therapeutically Wittgensteinian approach (see e.g. my *Applying Wittgenstein*) similarly cannot exactly seek to *rectify* the many defects I think may be present in the many instances of philosophy/methodology/would-be-science that I aim to interrogate in the present work. That is: I cannot put them right by affirming/saying what the *right* theory is, or what the *right* answer is. I not only cannot tell you what God is really like, but not even what science etc. is really like ... ‘All’ I can do is offer warnings, questions, perspectives, alternative possibilities. That is of the nature of the Wittgensteinian ‘methodology’. And moreover, all I can do is offer these in the knowledge that different readers will differ in their need for them, in their desire for them, in their familiarity with them, etc. The Socratic and Platonic difficulty with the adequacy of *writing* as a vehicle for philosophising or for methodological reflection is writ large in Wittgenstein; and, I fear, and hope, in the present work, if such it is.

This puts a strain on the reader. I am sorry for this; but then again, it is unavoidable. What am I *saying*, in the present work? Well, nothing. That follows directly from my ‘New Wittgensteinian’ approach. (See for this Cray and Read’s (2000) collection, *The New Wittgenstein*. Cf. also the later Gordon Baker’s (2004) approach to philosophy.)¹

So this book is constantly critical, in a way that might weary some readers, and may be seen by them or by others as wearily ‘evasive’ or merely allusive in terms of what it is positively putting forward. ‘Guilty’ as charged. To do justice to the subject-matter, to be true to Wittgenstein, there is no alternative. It’s not clear what is being *defended* in this book: because nothing is. There is no positive doctrine

¹ Cf. also Duncan Richter’s (2009). Richter sees clearly the radically therapeutic/liberatory aim of my writing.

1	(cf. <i>PI</i> , 126–8), ² no theory to defend. I spend much of my time fending off possible	1
2	misunderstandings: because they are so ‘natural’ and because that is one of the	2
3	main things that there <i>is</i> still to do.	3
4	To make things possibly even worse: this is a sketchbook, criss-cross-style, of	4
5	varia. It is a gathered collection of writings and papers of mine, that myself and	5
6	my Editor have more or less unified, we hope, around the themes that I will shortly	6
7	endeavour to explicate. For this reason, added to what I have already said, it is	7
8	perhaps very important to give the potential reader as much freedom as possible:	8
9	Please feel free to skip Sections that don’t seem central to you/that don’t interest	9
10	you. ³ ‘Dip’ in and out. Similarly, feel very free to ignore the footnotes, many of 10	10
11	which contain rebuttals or asides which may be tangential to your concerns. Try 11	11
12	to find within this book the book that works for you. That is all a philosophy book 12	12
13	can be, after all, after Wittgenstein: a set of exercises whose therapeutic value will 13	13
14	differ depending on where one is at, as compared to and contrasted with others. 14	14
15	(This book has, I believe, a fairly strongly unified thrust, and I hope you will read 15	15
16	it from start to finish; but I would <i>far</i> rather you read parts of it and profited from 16	16
17	it than that you read all of it and were, ultimately, bored by it.) 17	17
18	Moreover; please don’t expect this book to be something that it patently isn’t 18	18
19	(but which the main title might possibly have led you to think it is). This book is 19	19
20	not an exegetical examination of Wittgenstein’s remarks on science or the specific 20	20
21	sciences, and nor is it even an examination of his brilliant and peculiar relationship 21	21
22	to the scientific ideal or image. Still less does it consider Wittgenstein’s own 22	22
23	scientific heritage and scientific and engineering investigations. 23	23
24	What this book <i>is</i> for is above all for you and me to get in view some important 24	24
25	putative differences between what we call natural and human sciences. (Part 2 25	25
26	of the book focuses on philosophical and <i>social/human</i> thought and action, in 26	26
27	the broadest sense of those words.) This book employs Wittgenstein’s and 27	27
28	Wittgensteinian ‘methodology’ to wonder around the sciences with. And it relies 28	28
29	quite heavily, in the course of doing so, on a pair of key ‘surrogates’ for Wittgenstein 29	29
30	on whom I have previously published book-length works: Thomas Kuhn and Peter 30	30
31	Winch, on my ‘charitable’ (broadly Wittgensteinian) interpretations of them. 31	31
32	What unifies the book above all is the <i>sensibility</i> which it aims to inherit and 32	32
33	manifest. A sensibility that ‘reads into’ Wittgenstein’s brilliant ‘surrogates’, Winch 33	33
34	and Kuhn, the realistic <i>spirit</i> ⁴ of the therapeutic (‘New’, ⁵ and later-Bakerian) 34	34
35	Wittgenstein. The book also at times employs some of the method (of paying 35	35
36	attention in detail to unaware narrow projections of metaphor, and of developing 36	36
37	a thoroughly ‘embodied’, non-metaphysical ‘realism’) of Lakoff and Johnson’s 37	37
38		38
39		39
40	<hr/> 2 Henceforth <i>PI</i> indicates Wittgenstein’s <i>Philosophical Investigations</i> .	40
41	3 For example: just skip 1.2, if you are not in the grip of nor interested in standard	41
42	readings of Kuhn.	42
43	4 Diamond’s (1991) term, following Wittgenstein himself.	43
44	5 See Crary and Read (2000).	44

1 (1999) and some of the sensibility of Iain McGilchrist.⁶ McGilchrist's (2009) is 1
 2 especially relevant, in that it beautifully offers, implicitly (and at times I draw this 2
 3 out somewhat, in what follows in the present work), a way of hearing a difference 3
 4 between two profoundly-valid ways of hearing the world: roughly, those of normal 4
 5 science (viz. the left hemisphere of the brain), and those of the synoptic human 5
 6 being (the right hemisphere). And crucially, it suggests, in a way utterly respectful 6
 7 of science itself (and indeed deeply *based in* contemporary neuroscience) that 7
 8 and how it is literally disastrous to attempt to reduce the latter to the former, as 8
 9 most visions of 'social science' or of '*les sciences humaines*' tacitly or explicitly 9
 10 *do*. (This is one grave example of what McGilchrist describes as happening right 10
 11 across Western culture, in modern times: the displacement of the holistic and 11
 12 human approach of the brain acting as nature intended by a more limited atomised 12
 13 model which, quintessentially, *models*⁷ what it sees.⁸) 13
 14

15 The present work has the following overarching structure: 15

16 In Part I I *remind* (cf. *PI* 89, 127) the reader of our paradigms of science: natural 16
 17 sciences. I outline briefly, that is, some key features of a broadly Wittgensteinian 17
 18 (Kuhnian, on my reading of Kuhn)⁹ perspicuous presentation of science, and 18
 19 attempt to eliminate some key misunderstandings of that presentation and of natural 19
 20 science. Crucially, I show in some detail that and how 'Incommensurabilism' is 20
 21 *not* tantamount to Relativism; it is rather about understanding the *depth* of the 21
 22 difference between the two cultures being compared, and understanding thus how 22
 23 easy it is to fail to *see* one, through seeing it only through the eyes of the other 23
 24 culture. (This is a lesson that is of crucial import when one comes to subjects 24
 25

26 _____ 26
 27 6 I do *not* here offer any defence (or indeed any significant explication) of Lakoff and 27
 28 Johnson, or of McGilchrist, as I *do* offer these of Kuhn and Winch. I simply assume their 28
 29 general usefulness, and I accentuate the positive in their work for my purposes. If you are 29
 30 someone who doesn't find their work reliable, then you can just treat the moments when I 30
 31 refer to them here as themselves 'just' the developing of an appealing and possibly-useful 31
 32 *metaphor(s)*. Such moments are not a substantive part of my argument in this book. They 32
 33 are intended as illustrative. (For my own *critique* of McGilchrist, see my Review of his 33
 34 (2009), forthcoming in *Phenomenology and Cognitive Science*.) 33

34 7 Cf. my argument in 1.5, below. 34

35 8 See especially the final chapter of McGilchrist (2009), which is entitled "The 35
 36 master betrayed". (The 'master' is the right hemisphere, who has been suborned by his 36
 37 'emissary', the left hemisphere.) 37

38 9 See Sharrock and Read (2002, 2003). The latter is reprinted with some updating 38
 39 as Section 1.5, below. In any case, in the final analysis the question of whether or not 39
 40 my Wittgensteinian interpretation of Kuhn is right is less important than the substantive 40
 41 philosophy-of-the-sciences question of the methodological use to which my Kuhn, this new 41
 42 Wittgensteinian Kuhn, can be and is below put. In the end, philosophy and methodology 42
 43 always trump exegesis, unless one is content to be *merely* a scholar. (See also the close of 43
 44 this Preface, below, and the Concluding Summary to the book, for development of this 44
 45 point.)

1 having human understanding as a key part of *their subject matter*: i.e. ‘the human 1
 2 sciences’.) What Part 1 is supposed to give one is a better sense of the nature of 2
 3 normal science, and of its occasional transmogrification into extraordinary science. 3
 4 Ultimately, as befits a therapeutic work, *the reader has to come for themselves* to 4
 5 a decision as to how best to employ this value-laden term, ‘science’, and on what 5
 6 features of its employment in the domain in which its employment is relatively 6
 7 unproblematic are worth highlighting, emphasising, holding onto. 7

8 Then, in Part 2, I offer successive cases of putative sciences from the study of the 8
 9 human world, conceived not as simply and exhaustively biologically-chemically- 9
 10 physically comprehensible. The cases considered are most of the strongest cases 10
 11 of putative human sciences: economics, psychology and psychiatry, cognitive 11
 12 science. If even *their* status as ‘real’ sciences turns out to be mediocre, then that 12
 13 will be telling (It will *a fortiori* suggest worries concerning the alleged scientificity 13
 14 of sociology, anthropology, etc.). Here is where the reader’s decision as to the 14
 15 most helpful or otherwise employment of terms such as ‘science’ will come to the 15
 16 fore. Your Wittgenstein, after mine, is here put to work among putatively scientific 16
 17 disciplines. 17

18 For the key to the book is to understand that these cases of human studies etc. 18
 19 are offered in broadly the same spirit as the ‘cases’ of language considered by 19
 20 Wittgenstein in the first hundred or so sections especially of the *Philosophical* 20
 21 *Investigations*. NOT as quasi-scientific models, NOT as approximations – in fact, 21
 22 on the contrary. (The prejudice that successful sciences (or, better: successful 22
 23 disciplines, successful subjects) would be things that deliberately modelled 23
 24 themselves on the natural sciences is exactly a prejudice that, following Peter 24
 25 Winch and Harold Garfinkel,¹⁰ I want to hang a large question-mark over.) The 25
 26 key to Wittgenstein’s liberatory/therapeutic method in the overture and opening 26
 27 movements of the *Philosophical Investigations* is to come to understand that the 27
 28 onus is being put on *you*, the reader, to decide whether these ‘cases’ are language or 28
 29 not. Is *this* enough to merit such-and-such a ‘language-game’ truly being regarded, 29
 30 on reflection, as language, or not? Or *this*? Or *that*? Eventually, one comes to 30
 31 think that perhaps quite a lot is needed in order for this term, language *simpliciter*, 31
 32 to be actually worth applying to something – not just the most primitive forms 32
 33 of language/of systems of communication, etc. . Indeed, ‘Instead of producing 33
 34 something common to all that we call language, I am saying that these phenomena 34
 35 ... are *related* to one another in many different ways. And it is because of this 35
 36 relationship, or these relationships, that we call them all language’ (Wittgenstein, 36
 37 *PI* 65, underlining added).¹¹ 37

38 Somewhat similarly, the ‘cases’ I examine in (Part 2 of) this book are presented 38
 39 in such a way as to make one wonder whether a good deal more is needed to 39
 40 40

41 10 See Hutchinson, Read, Sharrock (2008) for exposition of Winch and Garfinkel in 41
 42 this direction. See also the Lecture Transcripts, below, where I question the ‘programmatic’ 42
 43 ambitions of social science etc. 43

44 11 I defend the reading of *PI* 65 that is implied here in Read (2005). 44

1 justify the honorific term ‘science’ than most ‘defenders’ of/apologists for human 1
 2 or economic or social science seem to think. And also in such a way as to open 2
 3 up other (previously more or less occluded) possibilities for one’s consideration: 3
 4 e.g., that the discipline in question has welcome features on its/their own merits 4
 5 that are not well-described as scientific, or that the discipline in question is rather 5
 6 more continuous with abilities of common life that are only revisionistically – and 6
 7 as a result of over-generalisation – assimilable to *scientific* abilities or practices. 7
 8 But the decision is up to us / up to you. It’s not up to *me*. And what I present here 8
 9 certainly does not *define* science – and so, *a fortiori*, does not exclude ‘human 9
 10 science’ etc. *by definition*: As if a *definition* hereabouts could be of any real *use* to 10
 11 us (cf. *PI* 3, 79, 182). Rather, the reader is presented (in Part 1) with a reminder of 11
 12 some clear cases of science, and asked to reflect upon how they are related to one 12
 13 another such as to be worth calling ‘science’; and then the reader is presented with 13
 14 some less clear cases, that the reader can gradually come to decide whether or not 14
 15 to call by the same name, and thus learns more (from herself) about the ‘relations’ 15
 16 that exist between various forms of inquiry. The result of the whole book should be 16
 17 a greater clarity on the reader’s part on how to apply and how to understand terms 17
 18 such as ‘science’ to best effect, a clarity that will be far more useful and serious 18
 19 and hard-won than any definition could ever be. 19

20 So: This book does not seek to ‘demarcate’ science from non-science. It seeks 20
 21 to allow the reader to reach a greater clarity about the various epistemological etc. 21
 22 enterprises that human beings engage in, such that the felt *need* for a ‘demarcation 22
 23 criterion’ tends to evaporate. In that sense, it is (or: aims to be) a wholly ‘therapeutic 23
 24 work.’ Catch its author holding any dogmatic opinions, and he will instantly give 24
 25 them up. For it doesn’t much matter whether you do decide in the end to use the 25
 26 *term* ‘language’ to talk about (e.g.) Wittgenstein’s ‘language-games’ or not: ‘it is as 26
 27 you please’ (*PI* 14). Wittgenstein’s broadly therapeutic conception of philosophy 27
 28 is such that what matters is your coming to self-awareness about the factors that 28
 29 lead you to do so (or not): ‘Say what you choose, so long as it does not prevent you 29
 30 from seeing how things are. (And when you see, there is a good deal that you will 30
 31 not say.)’ (*PI* 79, translation emended). 31

32 My aim in this book is the same: to put the onus on you: to give the power 32
 33 to you to determine whether or not calling disciplines such as sociology or 33
 34 economics or linguistics or what-have-you sciences will actually be fruitful, be 34
 35 *satisfying*. And, to see clearly the contemporary character(s) of those disciplines, 35
 36 *no matter what one calls them*, no matter which ‘Faculty’ one assimilates them to. 36
 37 Wittgenstein’s philosophy is (about) liberation from the compulsion to believe that 37
 38 such and such *MUST* be the case; it is (about) no longer being unwarily *attached* 38
 39 to ‘pictures’. It aims to provide a genuine and (as) lasting (as possible) means of 39
 40 satisfying one, by releasing one from incompatible desires – e.g. the desire both 40
 41 to regard a certain subject as a science and to acknowledge features of it which 41
 42 present obstacles to taking the first desire seriously. 42

43 The aim of the game is therefore not word-policing, but intellectual liberation, 43
 44 satisfaction, and clarity. 44

1 If I ever appear to violate the aim and ambition delineated above in the pages 1
 2 that follow, then please give generously of yourself: try if possible to interpret 2
 3 what you read there in the spirit of this Preface. For it is of *no* philosophical force 3
 4 what *opinion* you or I or anyone else has about whether sociology or economics 4
 5 or linguistics or what-have-you ‘really is’ a science (cf. (Wittgenstein: 1976: 5
 6 102–3, 183–4, 14). What matters is the way that we can learn about ourselves 6
 7 (and about each other; and of course about the ways we study each other) when 7
 8 we think through these various cases. Such that we can go on, less likely than 8
 9 before to succumb to temptations to scientise where we shouldn’t, or to apply (or 9
 10 to withhold) this that is widely-regarded as the greatest of labels of contemporary 10
 11 praise (‘science!’) where we shouldn’t. 11

12 In sum: What do we want to mean, and what can and do we actually mean, 12
 13 when we call something a ‘science’? And when and where ought we to honestly 13
 14 admit that such appellation is more trouble than it is worth? 14

15 Let’s find out. 15
 16 16

17 But before we get underway, an important word on philosophy and exegesis.¹² 17
 18 I have enjoyed (if that is the right word) a sustained series of debates in print 18
 19 with Steve Fuller over his criticisms of Kuhn’s philosophy of science. In his latest 19
 20 very lengthy critique of my criticisms of him on Kuhn, Fuller (2005) makes a 20
 21 number of disastrous interpretive bloopers and intellectual mis-moves, which I 21
 22 shan’t trouble to try to correct. The very final page of his paper is however of some 22
 23 worth, and of interest in relation to our present topic. Fuller suggests that ‘[Read 23
 24 ought to take] more credit for his own arguments instead of performing feats of 24
 25 ventriloquism for Kuhnstein’ (Fuller: 2005: 497). 25

26 I accept this point. The interpretation of Kuhn offered in Sharrock and Read 26
 27 (2002) may well be wrong. I am inclined to think now that it is in fact not altogether 27
 28 unlikely that our ‘therapeutic/Wittgensteinian’ Kuhn is a partial reading, and that 28
 29 the more ‘modest’ (less Wittgensteinian) Kuhn of Jouni Kuukkanen or of Bojana 29
 30 Mladenovic may be truer to the historical Kuhn. 30

31 The real point about my Kuhn is that he is in most key respects *right*. (I include 31
 32 here his endeavour to be a basically therapeutic figure, not a metaphysician or 32
 33 quasi-scientist with a philosophically-controversial positive account). In other 33
 34 words: it matters little whether my (-and-Sharrock’s) interpretation is true (and 34
 35 any such judgement is always only ever an idealisation, in any case – because 35
 36 philosophers/thinkers change; their texts are never 100% self-consistent; etc.); 36
 37 what really matters is its usefulness. What really matters is a sound philosophy/ 37
 38 methodology of the sciences. 38

39 And the same applies to my Winch. 39

40 This book seeks to apply Wittgenstein to thinking about the sciences, especially 40
 41 (this is where the main ‘pay-off’ of the book lies) ‘the human sciences’. Kuhn 41

42 _____ 42
 43 12 My particular thanks to Bojana Mladenovic, for getting me to see how important 43
 44 this word may be. 44

1 and Winch are, as I've already noted, used at times within it as 'surrogates' for 1
 2 Wittgenstein, in this thinking, in this application. Whether I get Kuhn or Winch 2
 3 – or even Wittgenstein – interpretively right, is of less significance than whether 3
 4 I offer the reader a useful therapy that enables her to figure out for herself what 4
 5 vexes her *vis a vis* 'the sciences' and how to overcome that vexation. 5
 6 Where the approach offered here differs from these figures, I am happy to 6
 7 take credit for the difference. I believe this book to be *profoundly* in the spirit of 7
 8 Wittgenstein (and of Kuhn and Winch); but, if ever forced to choose, I should give 8
 9 up that claim, and stick with the 'claims' (such as they are) that follow. 9
 10 For the subject-matter of Part 2 of this book is in the end far too crucial to 10
 11 be contingent upon a claim of influence or philosophical historiography. What 11
 12 follows involves nothing less than an offering to the reader of the opportunity to 12
 13 liberate herself from the strong draw to scientism, where that draw has wreaked 13
 14 most mischief. Setting Wittgenstein to work among the 'human sciences' has a 14
 15 strong impact upon one's ongoing understanding of the disciplines in question. 15
 16 And in some cases has important consequences for science policy and even for 16
 17 government policy more generally, in relation to fields such as economics and 17
 18 psychiatry. 18
 19 To sum up then this central point about my philosophy of exegesis: I offer 19
 20 the reader here a possibility to see Wittgenstein, Kuhn and Winch as I do; but if 20
 21 someone persuaded me (or if you, reader, are at some point somehow persuaded or 21
 22 convinced) that my *interpretation* was mistaken, I would still stick to the claims, 22
 23 methods, ideas that I derived/generated while reading Wittgenstein, Kuhn and 23
 24 Winch, because I think that these claims, methods, ideas are the right ones to have. 24
 25 The best interpretation is the *philosophically* best interpretation, (more or less) 25
 26 consistent with the text. 26
 27 Obviously I do not think that this is the *only* responsible way to read other 27
 28 philosophers; but I want to argue that it *is* generally the *best* way to read them, 28
 29 for anyone interested in more than scholarly dust. I won't try to defend this view 29
 30 further here, in this already-rather-long Preface; but I hope that, at the end of 30
 31 having worked through the various Sections of the present work, you too will be 31
 32 convinced of it. 32
 33 By their fruits ... 33
 34 34
 35 35
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 44 44

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1
2
3
4
5
6
7
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18 thinking that Wes and I did together for our *Kuhn* book, and, more crucially still,
19 Wes generously allowed me to re-publish the article that is the basis for Section
20 1.5 (an article co-authored by the two of us) here. Bojana Mladenovic and Angus
21 Ross (especially), Jouni Kuukkanen, Nigel Pleasants, Gavin Kitching, Davide
22 Rizza, and Louis Sass kindly read the whole manuscript or major chunks of it for
23 me, and have offered me a wealth of comments on it that have greatly improved
24 it. In some cases, I have borrowed verbal formulations from them and these now
25 find a place in the finished text. My deep thanks to them. Obviously, all remaining
26 infelicities or errors are my own...
27 My students over the years have played an important role in the testing out of
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29 Masters students who participated in the class the ‘lecture transcripts’ of which
30 make I think a unique ‘opening’ to this book, and whose voices are preserved here
31 in the questions etc. that they asked/offered in the course of that class. I’d like to
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33 with them back when they were alive (though I wish there had been many more,
34 and that they had lived longer to continue their great work) have stayed with me as
35 direct influences, and have contributed to my way of taking them as ‘emissaries’
36 of Wittgenstein’s, here. And I’d like to thank the late Nelson Goodman; again, the
37 contact I had with him when he was alive (again, too little) contributed to my desire
38 to write a book with the title ‘*Wittgenstein among the Sciences*’, a title intended as
39 (among other things) a tribute to the range of his (Goodman’s) influence. Also I’d
40 like to thank Iain McGilchrist (who thankfully is very much *alive*, and vital) for
41 electronic conversations that have contributed to the latest way I aim to shape the
42 material which readers can find herein.
43 I wish to thank the following for permission to include the following previously
44 published material in the present volume: Palgrave Macmillan, for Read, R.

1	(2009) 'Extreme Aversive Emotions: A Wittgensteinian Approach to Dread', in	1
2	<i>Wittgensteinian Perspectives: Emotions and Understanding</i> , Gustaffson et al (Eds),	2
3	London: Palgrave Macmillan. SAGE, for Read, R. (2008), 'The 'hard' problem of	3
4	consciousness is continually reproduced and made harder by all attempts to solve	4
5	it', first published in <i>Theory, Culture and Society</i> , 25(2). Taylor and Francis, for	5
6	Sharrock, W & Read, R. (2003) 'Does Thomas Kuhn have a 'Model' of science'	6
7	in <i>Social Epistemology</i> (17) 2/3. Jerry Goodenough, for Read, R (2004) <i>Kuhn: A</i>	7
8	<i>Wittgenstein of the Sciences?</i> , originally included in <i>UEA Papers in Philosophy</i> (15).	8
9	There are many others who deserve thanks for helping in getting particular	9
10	portions of this book to where it is; most of them are thanked in individual	10
11	footnotes, often at the start or end of particular Sections. Anyone who I have left	11
12	out – and there certainly will be some -- I apologise to now. Finally, thanks to my	12
13	UEA School of Philosophy colleagues for their help in encouraging me to take	13
14	time to write this book; and to Juliette, as always, and for always.	14
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16	Rupert Read, Norwich.	16
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Editor's Introduction

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7 The conception of philosophy which is defended and deployed by Rupert Read 7
8 is rooted in an increasingly influential family of interpretations of the philosophy 8
9 of Ludwig Wittgenstein. The unifying theme amongst these interpretations is 9
10 an understanding of Wittgenstein as a thinker with a 'resolute' or 'therapeutic' 10
11 conception of philosophical activity; this activity should not be characterised as 11
12 having technical, theoretical or metaphysical aspects and aims. This conception 12
13 has informed the author's ongoing philosophical practice in recent years, and the 13
14 present volume extends this into new territory. 14

15 The central question addressed by the book might usefully be said to be the 15
16 following one: 'Is a good deal more needed to justify the honorific term 'science' 16
17 than most defenders of human, economic or social science think?' The answer is 17
18 not sought in any strict demarcation of the scientific from the non-scientific: rather, 18
19 the reader is encouraged to reach for herself a greater clarity about the various 19
20 enterprises that human beings engage in, such that the felt need for a demarcation 20
21 criterion tends to evaporate. The book takes up the challenge of inviting the reader 21
22 to such reflection by way of a searching examination of the actual nature of science 22
23 itself, and a subsequent investigation of successive cases of putatively scientific 23
24 disciplines. 24

25 Whilst there have already been a number of explicit attempts to understand 25
26 the implications of Wittgenstein's thought in the context of the methodology 26
27 of the social sciences, those attempts have all too often taken Wittgenstein to 27
28 be putting forward substantive doctrines or theses. This monograph seeks to 28
29 challenge such readings.¹ As an attempt to investigate the relation between 29
30 reflections on the methodology of science, on the one hand, and the natural and 30
31 social sciences themselves, on the other, the ambitions of the present book can be 31
32 compared with Douglas and Hull (1992) and Gunnell (1998), both impressive and 32
33 important undertakings. However, where the former volume represents an effort 33
34 to understand Goodman's distinctive contribution, and the latter engages with the 34
35 thought of thinkers as diverse as Cavell, Rorty and Foucault, the current volume's 35
36 distinctively therapeutic approach aligns itself most intimately with the work of 36
37 Peter Winch, and with Read's own previously authored and co-authored material.² 37
38 38

39
40 1 Such readings include McGinn (1984) and Bloor (1997). 39

41 2 The most explicit connection obtaining between the current volume and Read's 40
42 own previously published work is with Sharrock and Read (2002) and with Hutchinson, 41
43 Read and Sharrock (2008). The 'therapeutic' strategy in the former volume runs parallel to 42
44 that developed in Part I of the present work; the present material on Kuhn, which is entirely 43
44 Read's own (with the exception of section 1.5, originally co-authored with Sharrock) 44

1 The book begins with transcriptions of a series of Read's post-graduate lectures/ 1
 2 seminars, originally delivered in 2007, which I attended, and which proved to be 2
 3 a dynamic forum for discussing and debating the difficult questions and deeply- 3
 4 felt concerns motivating the current volume. Part 1 of the book aims to establish 4
 5 a secure understanding of how we ought to understand what science is, from 5
 6 paradigm-uses of the term (i.e. the natural sciences). Part 2 then looks at a range 6
 7 of social and human sciences, including anthropology, psychiatry, economics, and 7
 8 cognitive science, in order to test out the degree to which it is helpful to try to 8
 9 apply the scientific method within them, and to treat these disciplines as sciences. 9

10 In Part 1, the principal focus is on the parallels between Wittgenstein's 10
 11 methods and those of Thomas Kuhn. Firstly, in §1.1 the author focuses on some 11
 12 key passages of Kuhn's *The Structure of Scientific Revolutions*, notably those 12
 13 passages which appear to present a problem for the 'therapeutic' interpretation of 13
 14 Kuhn. Read shows how, interpreted in the spirit of the therapeutic Wittgenstein, 14
 15 Kuhn can be said to have far fewer dogmatic theoretical commitments than most 15
 16 of his opponents have presumed. Thus, there is a real case for regarding Kuhn as a 16
 17 Wittgensteinian figure, in relation to the sciences. This sets the stage for Part 2, in 17
 18 which these concerns are explored in relation to some putatively 'human' sciences. 18

19 In Section §1.2, a powerful and pervasive interpretation of Kuhn's conception 19
 20 of 'paradigm-shifts', 'incommensurability' and 'world changes' is presented and 20
 21 assessed. From the vantage-point of this standard interpretation, Kuhn's attempts 21
 22 to understand scientific change 'from the inside' appear to leave him vulnerable to 22
 23 the charges of relativism and of advancing self-defeating claims. If Kuhn is read 23
 24 and understood in this manner, as simply another philosopher of science putting 24
 25 forward a set of falsifiable claims, then even his most sympathetic readers will 25
 26 struggle to defend him against the accusation that his 'theory', and the claims 26
 27 which constitute it, undercut themselves by standing *outside* the 'view from 27
 28 within' which they seem, paradoxically, to endorse. In response to this picture, §1.3 28
 29 presents a challenge to the standard reading, proposing that Kuhn is attempting to 29
 30 enable us, his readers, to begin to understand periods of science in which we do not 30
 31 participate and, indeed, in which we could not possibly participate. Importantly, 31
 32 the disappearance of a period, or an activity, does not deprive us completely of the 32
 33 use of the language in which it is interwoven and which is interwoven in it, and as 33
 34 such is not reducible to 'meaning-incommensurability'. 34

35 §1.4 explores the possibility of reading into Kuhn a rather different 35
 36 account of incommensurability. Is there, in Kuhn, a notion of the absence of a 36
 37 common measure not only of what is meant but also of what is *believed in* – an 37
 38 incommensurability of *values*? Kuhn's suggestion of an incommensurability of 38
 39 values is not independent of his suggestion of incommensurability somewhere 39
 40 in the vicinity of meaning (though, as §1.3 takes pains to show, not 'semantic 40
 41 incommensurability' as usually assumed): rather, Kuhn's ideas on these matters 41
 42 _____ 42
 43 proposes to diagnose what goes wrong in standard interpretations of Kuhn, and the parallel 43
 44 between Wittgenstein and Kuhn is developed in detail. 44

1 stand or fall together. To assume that what is meant by ‘incommensurability of
2 value’ could be quite other than ‘incommensurability of meaning’ would be to beg
3 a range of interesting questions concerning communities and their differences,
4 questions which are among Kuhn’s real concerns.

5 §1.5 (originally co-authored with Wes Sharrock) questions the interpretation
6 of Kuhn as providing a ‘model’ of science. Whilst acknowledging the simple
7 schematic of terms put forward in SSR (‘exemplar’, ‘normal science’ ‘revolution’,
8 ‘incommensurability’), it is proposed that such terms are not best understood as
9 undergirding a model, but rather as heuristic devices, or *objects of comparison*,
10 employed in the service of bringing to prominence key aspects of the ‘scientific
11 method’ which may otherwise be hard to notice. If one imagines that Kuhn is
12 providing a *model* – a reification of the features of a given period of science into a
13 generalised model – one may easily take Kuhn to be engaging in a practice which
14 fails to respect its own constraints. If such is Kuhn’s project, it offers an outmoded
15 or incomplete model at best, and, worse, risks falling into internal contradictions.
16 Setting himself against this misleading and damaging interpretation, Read puts
17 forward the alternative view that Kuhn is best understood as challenging late
18 empiricist conceptions of scientific ‘growth’ and as offering a sustained and
19 profound conceptual inquiry into the nature of scientific change.

20 In summary, whilst the ‘standard’ picture leaves us with a reading of Kuhn as a
21 thinker who *appears* to fall into contradiction and relativism, the overarching aim
22 of Part 1 is to oppose this standard picture, exploring the striking parallels between
23 Wittgenstein and Kuhn. In so doing, the author seeks to persuade the reader that
24 in reading Kuhn from a therapeutic perspective, one is perhaps most faithfully
25 capturing Kuhn’s considered view. By getting clear about incommensurability, the
26 central issue in Kuhn’s account of science, one puts oneself in the best position
27 to gain a clear perspective on the putatively human sciences, within which
28 incommensurability is often a live concern.

29 Part 1 puts forward an alternative and more sympathetic reading of Kuhn
30 than standard readings permit, by bringing to light the crucial parallels between
31 Wittgenstein and Kuhn, whereby both thinkers are understood as enabling us,
32 their readers, to gain a more perspicuous view of the putative ‘objects’ of our
33 investigations. Kuhn’s and Wittgenstein’s aims can thus be understood as
34 therapeutically motivated attempts to show how they and their readers might
35 overcome the metaphysical predilections which accompany philosophical
36 and methodological theorising, by enabling the reader to see just what those
37 predilections are.

38 In Part 2, after a short ‘Inter-Section’ that seeks to join the themes of Part 1
39 with those to come, Read puts forward successive cases of putative ‘sciences’
40 from the study of the human world. In each case, by applying the therapeutic
41 thinking common to Wittgenstein and, later, Winch, Read argues that these
42 putative ‘sciences’ are *not* best conceived as simply and exhaustively biologically,
43 chemically, or physically comprehensible. The final judgement is left to the reader,
44 who is asked to judge for herself whether ‘science’, as she wishes to understand it,

1 and as it is worth understanding, is present in these cases. In undertaking this task, 1
 2 Read does not shirk the hardest cases. The putative sciences subject to investigation 2
 3 are, principally, psychiatry, psychology, cognitive science and economics. If there 3
 4 are any human sciences, these are surely amongst the strongest candidates. 4

5 Section 2.1 introduces and reflects upon central themes in Peter Winch's 5
 6 seminal work, *The Idea of a Social Science and its Relation to Philosophy*, 6
 7 emphasising that Winch is best understood as questioning the *very idea* of social 7
 8 science, and of warning us against the inclination to interpret social practices, in 8
 9 all their vast complexity and subtlety, along scientific lines.³ 9

10 In §2.2, this Winchian method is applied to the 'hard case' of schizophrenia, 10
 11 specifically to the work of Louis Sass and his attempts to provide a Wittgensteinian 11
 12 interpretation of schizophrenia. The *interpretive* option which Sass puts forward 12
 13 is contrasted with Winch's (broadly) *descriptive* option, and it is argued that the 13
 14 latter resists the urge to interpret where interpretation is not possible. A 'taxonomy 14
 15 of interpretive options,' more generally applicable to cases where understanding 15
 16 is absent and is (apparently) called for in the human / social world, is presented 16
 17 and developed. 17

18 §2.3 offers a characterisation of the extreme aversive emotion of 'dread', whilst 18
 19 also calling into question any standard attempt to *make* such a characterisation, 19
 20 drawing upon Wittgenstein and Winch in an effort to persuade the reader of the 20
 21 hazards incumbent upon insufficiently radical attempts to comprehend extreme 21
 22 aversive emotions. In the course of §2.2 and §2.3, serious questions are raised for 22
 23 psychiatry's allegedly scientific status. 23

24 In Section §2.4, the method essayed in the preceding several Sections is applied 24
 25 to another key test-case, the conception of economics set forward in Friedman's 25
 26 epochal work, *The Methodology of Positive Economics*, showing that Friedman 26
 27 *assumes* the very model of human action/consciousness that the alleged economic 27
 28 laws he sets forward are supposed to occlude. In this way, Friedman smuggles 28
 29 into his guiding conception of natural science the tendentious vision of social, 29
 30 economic and human science that he subsequently foists upon his readers, begging 30
 31 the question against the view that there may be a difference in kind between the 31
 32 subject matter of the human/social 'sciences' and the natural sciences. By means 32
 33 of a close examination of key passages in Friedman's text, Read exposes the 33
 34 assumptions which give rise to Friedman's attempted justification of the claim 34
 35 that economics is a science in the same way that physics or biology are. 35

36 In §2.5, Wittgenstein is put further to work among the putatively 'cognitive' 36
 37 sciences, and the therapeutic method applied to the so-called 'hard' problem of 37
 38 consciousness, arguing that the problem, along with the broader 'mind-body' 38
 39 problem itself, is kept alive because its 'solution' is placed tantalisingly out of 39
 40 cognitive and epistemic reach in contemporary discussions. The therapeutic 40
 41 approach to the hard problem is to argue that this 'separation strategy', and the 41
 42 42

43 ³ This Section thus sets up the important role of Winch in Part 2, as a background 43
 44 figure, analogous to the role played by Kuhn in Part 1. 44

1 elusiveness of a solution which will satisfy us, bringing about an end to our 1
2 theorising on the matter, is in fact a structural feature of the way the problem has 2
3 hitherto been approached. 3

4 The book closes with a concluding summary by the author, followed by a short 4
5 interview which I conducted with Rupert Read, during which we clarify some 5
6 points and discuss a number of potentially controversial issues arising from the 6
7 book. 7

8 Simon Summers 8

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11 **Week (1) Introduction**
12
13 We begin this course by looking briefly at natural science and we ask the following
14 initial question: is 'natural' science the model on which 'social science' has been
15 based? This is a question which it is very natural to answer with the answer 'Yes?'
16 My own view is that that answer is roughly correct.
17 *Then* we ask the question: is that okay? Is it alright that we have built disciplines
18 of sociology, political science and economics etc on the model of science? What
19 are the consequences of our having done so? I will take you – in some detail
20 – through some of the people who have argued most strenuously that there is
21 something really problematic about conceptualising the study of the social world
22 on the model of the study of the natural world, Peter Winch in particular.
23 It looks like the social sciences (what most of you are doing/studying) have
24 been modelled on successful enterprises in natural science. Is that okay? Are
25 there alternative ways of doing social 'science' which do not fall prey to some of
26 the difficulties associated with the natural scientific model as a method of social
27 enquiry? Indeed, are there ways of doing social enquiry which are not social
28 *science* at all which should be preferred?
29 This leads naturally to a question which is in my opinion an even more
30 interesting one: are there methods of doing social enquiry which are deservedly
31 peculiar to the academic world or disciplines such as sociology, economics and
32 political science *at all*, or are the methods that we use that actually work most
33 effectively (in terms of showing ourselves something about ourselves or the
34 social world) in fact the methods of 'ordinary people'? To put it slightly bluntly,
35 in a way which I hope will make you reflect upon what you are actually doing
36 and studying here: if you study these (social scientific) disciplines successfully,
37 are you actually an expert in anything that ordinary people – people who have
38 not studied those disciplines – are not *themselves* experts in? As I say, I think
39 this is really quite an interesting and important question, and it is one we will
40 be addressing.
41 A first pass at the question would be that there is *of course* something worth
42 calling expertise in matters non-scientific: in various hermeneutic traditions, for
43 example; in history of a period; in art-appreciation. A competent, even college-
44 educated person does not know everything that an expert knows; for example, a

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1 musician (especially a musically-educated one) hears music differently than an 1
 2 ordinary pleasure-seeking concert-goer. So: Sociologists could perhaps be experts 2
 3 in society (in sociology) without sociology being a ‘science’ under some definition 3
 4 of science. 4

5 But great care is needed hereabouts. For while undoubtedly an intelligent 5
 6 reader reads novels differently than a literature PhD does, does the latter inevitably 6
 7 read novels better? I think not: in fact, I think that what is called ‘expertise’ can 7
 8 sometimes get *in the way*, in a case like this, of actually being able to read (in this 8
 9 case, the novel). Are there experts in philosophy? Yes and no. There is a sense 9
 10 in which I know a lot more philosophy than you do. But there is another sense 10
 11 in which I truly believe, following Socrates and Wittgenstein, that *I don’t* know 11
 12 *anything about philosophy* that you or anyone else doesn’t know. 12

13 But before we go further with this, let us now switch for a moment, away from 13
 14 thinking of the social world, and towards thinking of us as part of the natural/ 14
 15 physical/biological world. In the course of addressing the question just raised 15
 16 (about expertise), I will offer you some good reason(s) for believing that ‘social 16
 17 science’ is in fact mostly just the knowledge that ordinary competent social actors 17
 18 always already have anyway. If that case gets proved, then does that mean that 18
 19 we are committed to some form of idealism, and are abstracting away from the 19
 20 material, physical natural nature of human beings? Not necessarily. Let me explain: 20

21 An important and often neglected theme when we think about science and 21
 22 social science is the question of our place in the natural world, considered from an 22
 23 ecological or an environmental point of view. Thinking about us as fundamentally 23
 24 part of the natural world is the most natural way to think about human beings 24
 25 from a natural scientific point of view, i.e. as biological/physical entities, *and* as 25
 26 part of ecosystems. How (if at all) does/must this contrast with a conception of 26
 27 us as fundamentally ‘social’ or indeed fundamentally *human* beings (as political 27
 28 animals or as *Homo Economicus*, for example?) 28

29 If one reacts *against* the way of thinking about human beings implicit in ideas 29
 30 such as *Homo Economicus*, namely if one thinks there are important aspects of 30
 31 human life which are *not* easily captured through the lens of scientific enquiry, 31
 32 then it is perhaps easy to lose sight of something which it is arguably *extremely* 32
 33 important to keep in clear sight: that *whatever* we are as social beings, we *are* 33
 34 beings embedded through and through in our physical and biological environment. 34
 35 Without that environment, it doesn’t make sense to think of us existing *at all* 35
 36 unless one is an extreme idealist or solipsist who doesn’t really believe that the 36
 37 world (really) exists. (That is, of course, a position that some philosophers take up, 37
 38 which we shall not dwell upon here.) The most natural way to think of the natural 38
 39 world is: ‘it is fundamental; and it is just there.’ We might think that perhaps it just 39
 40 doesn’t very naturally open itself up to our understanding. That it requires detailed 40
 41 and obscure scientific work, to render it comprehensible. 41

42 A *Realist* approach to thinking about the natural world says that the world is 42
 43 just exactly as it is, completely independently of us. Our scientific endeavours are 43
 44 our attempts to latch on to or to ‘capture’ that reality, though we may, of course, 44

1 fall short of capturing it. The main alternative approach is Anti-Realism, which has 1
2 many variations (instrumentalism, positivism, empiricism etc). What all these latter 2
3 ideas have in common, at least *when they are translated into practice*, is that they 3
4 suggest that we cannot say (cannot know) anything more about the natural world 4
5 than what can be measured of it. (Some anti-realist ideas even question whether 5
6 there *is* anything more to the natural world than what we can measure in it.) 6

7 Realism is an attitude to the natural world and to science which suggests that 7
8 science is an attempt to capture the nature of reality in-itself, and that our attempts 8
9 to capture it may fall fundamentally short of that reality. In contrast, Anti-Realism 9
10 implies that reality has to be measurable: whatever isn't measurable isn't real, or 10
11 might as well not be. These ideas, which seem so different from each other, may 11
12 turn out not to be so different when it comes to their actual application to the 12
13 question of what *social* science is or could be, for example. A Realist would say: 13
14 'the social world is just what it is, irrespective of our 'understanding' of it: how it 14
15 is may completely outstrip that understanding.' An Anti-Realist's position would 15
16 be: 'the social world is (as good as) not real, except insofar as it is measurable. If 16
17 it cannot be measured and quantified, it can't be spoken about, and perhaps does 17
18 not even exist at all.' This is influentially expressed in the history of social science 18
19 through ideas such as behaviourism. Some forms of behaviourism, especially 19
20 those that have actually been realised as scientific research programmes, say that 20
21 whatever is not observable, measurable or quantifiable behaviour does not really 21
22 exist (or at least that we can't really say anything about it). What Realist and Anti- 22
23 Realism as just explicated have (very much) *in common* is that they fundamentally 23
24 presuppose the scientific attitude, or an attitude that leads to being (or *looking*) 24
25 scientific as regards their subject matter. 25

26 The fundamental questions I will be asking are: is there *something missing* 26
27 from these approaches, if we want to take seriously the fact that we are thinking 27
28 about human beings and the human/social world? Is there some sense in which, if 28
29 we try to think of the social world as in some fundamental way not fully open to 29
30 our understanding, we are 'missing' it? Isn't there something very *odd* about the 30
31 idea that the social world is *not* open to our understanding? Don't we start in the 31
32 social world as *insiders* far more fundamentally than in the natural world? (For the 32
33 social world is truly, ongoingly *made* by us, in a way that the natural world isn't.) 33
34 But, if we do, is this 'insiderhood' *anything like* what anti-realists have in mind, 34
35 if they take what is not scientifically measurable as not real? Being an *insider* to 35
36 something could in fact be suggested to be fundamentally antithetical to having a 36
37 *scientific* attitude or approach toward it (which demands outsiderhood). We live 37
38 and experience it: we are not alien to it. In fact: We start to see now how such 38
39 insider-hood need not be anything whatsoever to do with a scientific outlook (and 39
40 thus need not be hand-in-glove with any form of 'anti-realism'). *On the contrary*. 40

41 Again: In thinking about such questions as these, it is vital to be careful 41
42 (some have not been careful enough in the past, such as the idealists) to always 42
43 acknowledge that the social world is nothing without its *embeddedness* in the 43
44 natural world or, expressed another way, in the environment. 44

1 But let us focus more directly on the social world now: How can it possibly 1
 2 make any sense to try to take up a scientific attitude here? Why would we want to 2
 3 quantify and to begin to understand something as though it begins by ‘being other,’ 3
 4 if the object of our enquiry (we might claim) is something that is, from the very 4
 5 first instance, *open* to our understanding? Something that we are ‘inside’ and that 5
 6 is ‘inside’ us, something that is closer than close? 6

7 If you want to understand what a ‘bus queue’ is, for example: are you in a good 7
 8 position to do so if your attitude to it is to treat it as a ‘quasi-natural phenomenon,’ 8
 9 to be approached without any pre-conceptions at all? Or perhaps your approach 9
 10 is to quantify: to find out how many people are in the queue, how many minutes 10
 11 has it been there etc. ... Isn’t the way that we ought to approach the question of 11
 12 thinking about what a queue is rather more like trying to understanding *what it* 12
 13 *means* for somebody to be in a queue? Is somebody in a queue if they don’t know 13
 14 that they are in a queue, for example? 14

15 If this *is* the right way to think about being in a queue, then that immediately 15
 16 suggests a fairly fundamental difference from the natural sciences or to an 16
 17 (allegedly) scientific approach to the natural world. 17
 18 18

19 *Student: Doesn’t that happen in science as well? You establish categories and 19*
 20 *meanings which inform the theory?* 20
 21 21

22 Yes. Of course that’s right ... that’s the kind of thing that Kuhn was deeply 22
 23 concerned with, and Popper as well: we’ll come onto this in Lecture 2. But isn’t 23
 24 there a fundamental difference, in that, in the case of natural science, the categories 24
 25 are our categories *as theorists*, whereas if you’re talking about people in a queue, it 25
 26 looks like the world in question is through and through from the beginning *open* to 26
 27 our (and to their) understanding of it? We understand what it is like to be someone 27
 28 who is queuing – the people queuing knows that they are queuing – the categories 28
 29 *come from them (us)*, right? Whereas, to put it a little colourfully, there isn’t any 29
 30 question of an atom, a molecule, a mass or even a gene *knowing what it is doing*. 30
 31 31

32 *Student: Is consciousness required for ‘society’ in this sense? Can we say that ants 32*
 33 *are not truly social? And so: Is there an observer effect?* 33
 34 34

35 That’s a really nice question, and I’d like you to think about it! Certainly, what 35
 36 I’m saying is that there is some reason at least to think that the answer to all three 36
 37 questions you’ve asked there *may* be ‘Yes’, and that *that* immediately poses some 37
 38 pretty serious problems for a whole host of perspectives in social science. Indeed, 38
 39 it poses problems most directly for the perspectives which have taken themselves 39
 40 to embody what it is to be scientific. For example, it immediately raises questions 40
 41 for behaviourism, or for positivism in economics. It should perhaps make us begin 41
 42 to worry about what we are committing ourselves to in committing to the pursuit of 42
 43 social science, and whether we want to think of ourselves as being on a secure path 43
 44 to science, or entitled to use the term science – even to regard it as *an honorific word*. 44

1 Why is that we think it would be a good thing for there to be a ‘social science?’ 1
 2 Obviously there is some sense in which science has been vastly successful. But: 2
 3 Aren’t there other things that one can be successful at? Is there only one way that 3
 4 one can be successful as a human knower? 4

5 5
 6 6

7 **Week (2) The Philosophy and Methodology of Science.** 7

8 8

9 When I say ‘philosophy of science,’ I mean in the first instance the philosophy of 9
 10 all those disciplines where it is very widely assumed that the term ‘science’ is an 10
 11 appropriate term to use of them. 11

12 But: the term ‘science’ does not translate uniformly into other languages. In 12
 13 German, for example, the closest equivalent, *Wissenschaft*, is used much more 13
 14 generally to refer to any kind of systematic study. In English the term has a 14
 15 somewhat specific meaning, and there is, I think, a good reason for that. A reason 15
 16 that ties in with the title of this lecture, to some degree ... 16

17 What is science really about? What is the point? The philosopher Ian Hacking 17
 18 put it very well in saying that one has no proper account of science without the 18
 19 idea of ‘finding out’ about the natural world. Science involves discovering things, 19
 20 it involves knowing facts about things and it involves knowing how things work, 20
 21 and so on. If an account of what science is ends up being an account of ‘words’ or 21
 22 ‘ideas’ alone, Hacking suggests we don’t have an account of science *at all*. 22

23 For example, there is an important sense in which mathematics is a borderline 23
 24 case. Is mathematics really a science? Does it involve ‘finding out’ about anything, 24
 25 or is it simply the working out of a series of ideas? This is a controversial question 25
 26 in the philosophy of mathematics. It is an interesting comparison-case to consider. 26
 27 There is another sense in which one might think that mathematics is the purest of 27
 28 the sciences, and other senses in which one might not think of it as a science at all. 28
 29 Does it, for example, have at its heart any finding out about how things are or how 29
 30 things stand in the world? 30

31 Let’s turn our main attention to our paradigm cases of science. To what is obviously 31
 32 science, and to how philosophers have understood it. So we are talking about things 32
 33 like physics and chemistry. (In fact, I think a fairly useful definition of science is: 33
 34 Physics and things like that. This definition may look unsatisfactory to a ‘scientific’ 34
 35 eye. But such an eye is looking scientifically at what it is unobvious it makes sense to 35
 36 look scientifically at. Why think that science itself ought to be susceptible to a ‘tight’ 36
 37 definition, a definition without an open-ended similarity-rider?) 37

38 Here are the main three rival ‘models’ of science. The three main attempts, in 38
 39 the last century, to *take* what science is: 39

40 40

41 1. Model 1 (Empiricist/Positivist) The scientist accumulates observations/ 41
 42 facts, then forms explanatory/predictive hypotheses. The scientist’s task is 42
 43 to confirm or refute these hypotheses. (On this model, ‘looking and seeing’ 43
 44 can simply be done, and then hypotheses formed.) 44

- 1 2. Model 2 (Falsificationist) The scientist begins with a hypothesis (a 1
 2 framework). Explanations and predictions are made on the basis of the 2
 3 hypothesis. The task of the scientist is to refute the hypotheses. (On this 3
 4 model, 'looking and seeing' is done only through the lens of the hypothesis/ 4
 5 framework). 5
- 6 3. The third (Kuhnian) account, is perhaps not a model, but rather a *picture* of 6
 7 science? According to this account, normal/everyday science is something 7
 8 like Model 1, and science in moments of crisis something like Model 8
 9 2. (On this 'model', 'looking and seeing' can only be done through the 9
 10 lens of a framework so deep that it is not fully accessible to the scientist 10
 11 themselves (and thus cannot be in any sense called a hypothesis), and only 11
 12 becomes fully accessible when challenged, when in serious crisis (when no 12
 13 longer even just one thing ...). Such frameworks, Kuhn famously called 13
 14 'paradigms'. Kuhn argued that without a paradigm one cannot actually 14
 15 have science at all. Model 1 thus fails to understand even normal science, 15
 16 because it does not see how nothing at all can be seen except according to 16
 17 a paradigm. And Model 2 fails to understand even extraordinary science, 17
 18 because it does not see how there can be no extraordinary science except 18
 19 against the background provided by normal science and by the paradigm. 19
 20 Thus Kuhn can be seen as offering *for the first time* a potentially-successful 20
 21 account *of science as a whole.*) 21

22 22
 23 Thus I suggest that Kuhn's work is a dialectical synthesis of the Logical Positivist/ 23
 24 Empiricist and the Falsificationist (Popperian) models that preceded him. Kuhn 24
 25 takes seriously the actual nature of science, and its historical reality. This is the 25
 26 argument of my book, *Kuhn*. 26

27 You must form your own opinion (based on your reading, etc.) on whether 27
 28 or not you agree with me and Kuhn, or whether you are more attracted by one 28
 29 of the other two models, or indeed by something else altogether. The question 29
 30 for us, now, is: Do any of these accounts enable us to understand 'social science' 30
 31 properly? 31

32 Now, it might seem as if the Kuhnian account goes hand in hand with a standard 32
 33 'scientific' apologia for/account of social science. For what Kuhn seems to say is: 33
 34 'Get yourself a paradigm, and you have a science.' So perhaps that is all that social 34
 35 studies need, in order to become scientific, a paradigm. 35

36 But here, two important points: 36
 37 37

- 38 1. Kuhn emphasises that a paradigm is not something that can be hunted for. 38
 39 Rather, you just work in your field, and if you are fortunate a paradigm 39
 40 *emerges* from your work. 40
- 41 2. A 'paradigm' doesn't just mean any framework you like. For Kuhn, it 41
 42 crucially includes what he calls 'exemplars': Examples of great work in a 42
 43 field *the exploration, replication and elaboration of which can constitute a* 43
 44 *research programme.* 44

1 Thus Kuhn does not lay down any prescription for the social studies to become 1
 2 scientific. In fact, paradigms are themselves social ‘objects’. In order to understand 2
 3 paradigms and things like them (in order, that is, to achieve social understanding), 3
 4 *why presuppose that one needs already to have and to operate according to the* 4
 5 *kind of thing that scientists need and use and rely on?* In order to catch a gene, 5
 6 or whatever, one needs (according to Kuhn) a paradigm. But it might very well 6
 7 be that in order to catch a paradigm, what one needs is not anything much like a 7
 8 paradigm at all. 8

9 The question we will need therefore to come onto next is whether there are in 9
 10 fact good grounds to think that there is or will be such a thing as a social science. 10
 11 Put another way, and to return us finally to the title of this week’s lecture: Is ‘social 11
 12 science’ actually a part of science at all? Does the philosophy of science carry 12
 13 with it any positive lessons at all for subjects such as Economics, Sociology, 13
 14 Anthropology, Political Science, Linguistics, Psychology etc? 14

15 15

16 16

17 **Week (3) The Philosophy of ‘Social Science’** 17

18 18

19 A good place to begin today is through asking questions such as the following: 19
 20 ‘is it reasonable to expect that there should be sciences of everything? – of all the 20
 21 kinds of ‘things’ that there are?’ Does anybody have any views about that? Are 21
 22 there any things it would not be reasonable to expect there to be sciences of? 22

23 23

24 *Student – Surely we can’t measure things that have already happened, and are now* 24
 25 *cut off from us.* 25

26 26

27 We *can* have palaeontology of dinosaurs... Now, when it comes to human history, 27
 28 Collingwood says that ‘history is the history of thought:’ an intriguing idealist 28
 29 view. Presumably, if it is possible to ‘gather’ other people’s thoughts at all, it is 29
 30 possible to do so historically by referring to what they wrote and what they said, 30
 31 and so on. The issue would revolve around why there should or shouldn’t be a 31
 32 ‘scientific’ way of doing that. 32

33 This immediately raises once again the question of why we would want to use 33
 34 the word ‘science’ here. What do we gain from it? What I suggest is that perhaps 34
 35 the best available way of approaching the question of understanding what it is 35
 36 for something to ‘be’ science is by asking whether the positivists’ or Popper’s or 36
 37 Kuhn’s approach can be applied to the domain we are thinking about – the domain 37
 38 of history, for example. What would it *mean* to have a ‘paradigm’ (roughly in the 38
 39 sense in which Newton’s laws constitute(d) a paradigm in natural science) in the 39
 40 study of history? 40

41 Let me give you some more extreme examples, to see whether they are helpful. 41
 42 So, let’s take astronomy, the science of very large objects. Although many of them 42
 43 so far away that we can’t directly carry out experiments on them, it is nevertheless 43
 44 possible to have paradigms for the study of those objects, which Ptolemy, 44

1 Copernicus and others have provided. These are paradigms for astronomers to 1
 2 ‘fill in the details of’ in terms of how the solar system and the universe beyond it 2
 3 is structured. 3
 4 What is astronomy? The science of astronomical objects – very roughly, of 4
 5 everything beyond the earth, and of the earth considered as one more object which, 5
 6 from the point of view of other objects in the universe is something ‘beyond them.’ 6
 7 So, what about having a science, *astrology*, of the influence of these astronomical 7
 8 objects on us? Is that a reasonable thing to expect? 8
 9 9
 10 *Student – It is tempting to say that astrology is speculative in a way that astronomy 10*
 11 *is not.* 11
 12 12
 13 Yes – though I’d be tempted to say rather worse things about astrology than that 13
 14 it was speculative! 14
 15 15
 16 *Student – Perhaps it would be okay if the science of astrology were restricted to a 16*
 17 *concern with the influence of those objects on things that we could measure.* 17
 18 18
 19 Yes, that’s an extremely interesting point. We could imagine a realistic, scientific 19
 20 astrology which *really did* try to figure out the influence of astronomical objects 20
 21 upon us – though its results (i.e. the effects, the influence) would be almost 21
 22 negligible, presumably. 22
 23 If astrology *was* speculation, it wouldn’t be so very badly off, would it? There 23
 24 are clearly speculative elements in *astronomy*. Isn’t the point that astrology goes 24
 25 *totally* beyond that kind of speculation – so far beyond, that using the word 25
 26 ‘speculation’ is somehow misleading? Astrology as it actually exists in the world 26
 27 today involves the positing of *completely* unwarranted connections. It’s a whole 27
 28 different way of seeing the world and the universe, a way which is, one is inclined 28
 29 to say, *completely* without foundation, and not merely a way which is ‘not well- 29
 30 enough empirically tethered to justify the speculation.’ 30
 31 If we were to say that the problem with astrology was that it was speculative 31
 32 but that it *could* ultimately be proven correct, then it would appear to become a 32
 33 candidate-science, which it fairly clearly is not. Real scientists don’t begin to take 33
 34 astrology seriously. It isn’t a candidate. It isn’t even in the game. 34
 35 35
 36 *Student – Is that how we draw the paradigm line?* 36
 37 37
 38 You could say something like that, yes. The idea of large but very remote objects 38
 39 influencing us is just the wrong sort of place to look for a science, when the idea is 39
 40 of their feasible, *actual* effects (e.g. gravitational effects). That raises the question: 40
 41 what are the right places to look? Defenders of science will say that in order to 41
 42 find out whether something can successfully be science or not, one needs to do 42
 43 research, to build up a body of work and so on. The suggestion I am making is 43
 44 44

1 that *that* doesn't sufficiently capture the fact that astrology, for example, is simply 1
2 a non-starter. 2

3 If a scientist were to say: 'okay, let's see what the astrologers come up with,' 3
4 it would be an *odd* thing to say. To take seriously the idea that our lives could be 4
5 *fundamentally* ruled by astronomical bodies, as genuine astrologers apparently 5
6 believe, is something that I have no idea how to even begin to *test*. 6
7 7

8 *Student – Isn't this beside the point. Astrology has no claim to be scientific – it's 8*
9 *really just what's left over from ancient religions, isn't it?* 9
10 10

11 That may well be right. 11

12 Though there have it would seem been people who have claimed that astrology 12
13 *is* a science. All I am doing here is suggesting that this issue may be interesting to 13
14 compare with the issue we are interested in, which is the issue of social science. 14
15 The issue of whether we say 'okay, let's start our enquiry; let's just get on with it' 15
16 or whether we say 'is that the right place to look *at all* for the construction of a 16
17 scientific enterprise?' Is it the right kind of target? 17

18 Some say that the social studies are just what is left over from 'ancient' 18
19 sciences, or philosophies. Here are some further possibilities. What about a science 19
20 of objects and things that begin with the letter E? Would anybody take that as a 20
21 reasonable basis for a science?' 21
22 22

23 *Student – Doesn't it all depend on the hypothesis? We could for example say that 23*
24 *all things beginning with the letter E have a 'magical' property?* 24
25 25

26 Intriguing; but I'm not entirely sure that's right, because this now sounds very 26
27 much like the case of astrology, doesn't it? In order to make it appear that you 27
28 could get started, you *built in* the idea of magic, which seems to be an idea which 28
29 is fundamentally incompatible with scientific investigation in the first place. Of 29
30 course, there are various hypotheses we *could* come up with, but surely most of 30
31 them would be so risible as to be immediately refuted (i.e. completely refuted 31
32 before one even really *began*). Regarding our science of things beginning with the 32
33 letter E, in order for it to even look as though we have a project which can get off 33
34 the ground, it seems as though we have to build in *odd* assumptions which take us 34
35 out of the 'game' of science – the idea that all things beginning with the letter E 35
36 are linked together in some *mysterious* way, for example. 36

37 I'm not claiming a straight analogy. I'm *not* claiming outright that the social 37
38 world is as heterogeneous as things that begin with the letter E. Nor am I claiming 38
39 that the idea of there being 'things' which can be scientifically ordered in the social 39
40 world is as strange as the idea of there being large remote objects which have 40
41 a mysterious influence upon on. But I urge you to reflect upon these would-be 41
42 sciences as reflective 'objects of comparison.' They can unveil *possibilities* which 42
43 might not otherwise occur to you, *vis-à-vis* the standing of 'social science.' In 43
44 44

1	other words: I am trying to provoke in your mind at least the possibility of seeing	1
2	society as not the right kind of ‘thing’ to approach scientifically.	2
3		3
4		4
5	Week (4) Peter Winch’s Philosophy of ‘Social Science’	5
6		6
7	Let me try to set the scene by pointing to some key moments of <i>The Idea of a</i>	7
8	<i>Social Science and its relation to Philosophy (ISS)</i> , firstly the Epigraph, a quote	8
9	from Lessing:	9
10		10
11	It may indeed be true that moral actions are always the same in themselves,	11
12	however different may be the times and however different the societies in which	12
13	they occur; but still, the same actions do not always have the same names, and	13
14	it is unjust to give any action a different name from that which it used to bear in	14
15	its own times and amongst its own people.	15
16		16
17	The closing section of this quote, I think, offers us a key to Winch’s argument in	17
18	this famous polemical little book. Lessing uses the word <i>unjust</i> , a term Winch	18
19	doesn’t employ very much, though it perhaps lurks in the background. Winch	19
20	is interested in critiquing the <i>very idea</i> of social science, and is suggesting that	20
21	‘social science’ may occlude certain things from our fields of vision.	21
22	Social science may make it harder rather than easier to understand social	22
23	actions, particular societies and so on. Lessing takes that one step further, in	23
24	saying that it (social ‘science’) is not only congenitally inaccurate, but <i>wrong</i> :	24
25	this is a question of justice. There is something <i>wrong</i> , Lessing claims, in giving	25
26	any action a different name ‘from that which it used to bear in its own times with	26
27	its own people.’ I think Winch would be inclined, in a certain important sense,	27
28	to agree with that.	28
29	One reason for which I think he would agree relates to the idea of ‘moral	29
30	actions,’ an idea Winch is very interested in: ‘moral action’ in the sense that <i>all</i>	30
31	action is moral action. There is an effort in social science (typically) to ‘strip out’ the	31
32	values of the observer in a way which is questionable, and perhaps absurd. There	32
33	is an effort to pursue a ‘positive’ program of social science, and not a normative	33
34	program. But what if in order to understand actions we <i>have to</i> take their moral,	34
35	immoral or amoral dimensions seriously? And what if doing so inevitably related	35
36	the morality or otherwise of the observed with that of the observer? This would tie	36
37	the epistemological and the hermeneutic closely together with the moral and the	37
38	justificatory in a way which would be intensely challenging to the ‘idea of a social	38
39	<i>science</i> .’ (We’ll return to this point in the next Lecture, in relation to a parable of	39
40	mine, of the drowning children and the social scientist ...)	40
41	If <i>all</i> social action (including, for example, the act of choosing not to interfere	41
42	with an act but simply to observe it) has a moral dimension than what does that	42
43	imply for the project of understanding <i>what action is</i> in a value-free way? There	43
44		44

1 is a lot to think about in Lessing's quote: it tells us a lot about where Winch wants 1
2 (us) to go. 2
3 3
4 *Student: If Winch is saying that we should judge according to how events were 4*
5 *perceived 'in their time' is he saying for example that if we should not judge 5*
6 *something such as the practice of Witch burning to be barbaric?* 6
7 7
8 That is a very interesting question. Presumably, if the answer is 'yes,' it is deeply 8
9 worrying. How can what Winch is saying be distinguished from or defended 9
10 against such an interpretation? 10
11 11
12 *Student: The first half of Lessing's quote seems to attempt to head off that 12*
13 *criticism. It seems that if something is wrong, it is wrong 'for all time.' Isn't 13*
14 *Winch talking more about how the action is described?* 14
15 15
16 Yes. Perhaps what we can start to say there is that Winch and Lessing are drawing 16
17 attention to some important dimension of justice or morality that is relevant to 17
18 social study or social understanding. Nevertheless, it remains the case that the 18
19 task of understanding is *conceptually, ideally* distinct from the task of evaluating. 19
20 For example, sometimes when we understand better (than we did before) the 20
21 reason why someone has done something, *we come to evaluate the action more 21*
22 *harshly*. For example, if you are first under the impression than somebody has 22
23 unintentionally snubbed you, and then learn that they have *intentionally* snubbed 23
24 you, you will understand their action better and will be very likely to evaluate it 24
25 more harshly than you would have before you 'understood' it. 25
26 To understand witch-burning is not to forgive witch-burning. But you can 26
27 neither forgive nor condemn 'witch-burning', if you know not what they do (they 27
28 who do the burning). 28
29 Now let's turn to Winch's Preface. 29
30 Winch says: 'the understanding we already have is expressed in the concepts 30
31 which constitute the form of the subject matter we are concerned with' (p.x). 31
32 These concepts are considered, understood and debated by the people who are 32
33 *themselves* 'the objects of study': this is *not* the case in natural science. There is 33
34 no sense in which genes, atoms and forces have any 'truck' with the concepts by 34
35 means of which they are understood. They are *entirely indifferent* – and even *that* 35
36 is an underestimation of the difference ... ! 36
37 What Winch wants to do is to attack the prevalent conception of the relation 37
38 between the social *studies*, philosophy and the natural sciences. The concepts 38
39 of a people are a kind of philosophy already. They embody already a social 39
40 understanding. Winch wants to suggest that there is a close relation between the 40
41 social studies and philosophy. Exploring the very desire to have 'social science' is 41
42 part of philosophy and (at least some of) what happens under the heading 'social 42
43 science' is an attempt to pursue philosophy by other means. 43
44 44

1 Just as ‘war is diplomacy by other means,’ so ‘social science’ is philosophy 1
 2 by other means. It is not necessarily a good idea to go to war in this way ... 2
 3 You will not necessarily get what you bargained for, or what you wanted. 3
 4 Winch thinks that what a great deal of what the social sciences are attempting 4
 5 to accomplish is covertly philosophical: philosophy must take into account the 5
 6 social dimension of human beings, and what we ‘know’ (what *we know our way* 6
 7 *about*) as students of society. 7

8 We might think of an analogy with the work of Thomas Kuhn here: social 8
 9 science perhaps needs philosophy only in ‘times of crisis,’ and after that ceases 9
 10 to be relevant. But Winch continues: ‘in my view, it is *wrong* to say such a thing 10
 11 of sociology and its cognates (political science, economics etc).’ Winch sees 11
 12 philosophy as enduringly relevant to the social studies. (Because they are *always* 12
 13 ‘in crisis’?) 13

14 This is an overview of the problem, but what solutions does Winch actually 14
 15 propose? 15

16 Whose rules is ‘the social scientist’ concerned with? As we have already 16
 17 implied: surely not in the first place with the rules employed by the social scientific 17
 18 investigator as she conducts her investigation – surely it has to begin with ‘them’ 18
 19 (or, as it may be, ‘us’), the human beings who are being studied. This is not the 19
 20 case in natural science. In natural science the ‘rules’ are only the rules governing 20
 21 the procedures of investigation in the science itself. (Genes, atoms etc don’t obey 21
 22 rules; they merely are.) In Kuhn’s terms, the rules can be understood (roughly) 22
 23 as structuring and organising the ‘paradigm’: crucially, following those rules will 23
 24 require a considerable degree of training, which leads to the following question: 24
 25 What is analogous to the training of the natural scientist, in terms of understanding 25
 26 the social world?’ 26

27 27
 28 *Student: Is there a part of the training which is ‘taught,’ and a part which is 28*
 29 *‘lived?’ By ‘taught,’ I mean a body of knowledge which is passed on. 29*
 30 30

31 Good question. There is, for example, the vast amount of moral ‘training’ (I use 31
 32 the scare-quotes advisedly) we receive as children, and education is an explicit 32
 33 *and* an implicit learning of rules (amongst other things). What aspect(s) of social 33
 34 reality do we learn about as part of our education? Do we learn about the social 34
 35 world only in our social studies or sociology lessons? No, of course not: we learn 35
 36 how to ‘follow the leader,’ how to be honest, how to cheat, how obedient (or 36
 37 otherwise) people are, and so on. We learn these things also in the playground and 37
 38 even in our physics classes. 38

39 These reflections may be helpful is considering what the analogue is (and if 39
 40 there is really much of one at all) between training in the natural and social sciences. 40
 41 My point being: to some (limited) extent, most of one’s life is training in natural 41
 42 science, but training in natural science is also and absolutely crucially something 42
 43 specific. Someone who just knows that apples tend to fall down can’t yet be said 43
 44 to be trained in physics *at all*. With social science, I’d suggest to you, the boot is 44

1 on the other foot: one's life is one's main training, and specific academic training 1
2 is really just (at best) a secondary elaboration of and on this. However, if *that* 2
3 very specific training is principally part of something far broader, then the word 3
4 'training' seems misleading in respect of the latter. As your question suggested, 4
5 social attunement and education is arguably primarily *living*, not specific *training*. 5
6 Are we 'trained' how to be good human beings? Can we be put on tracks that 6
7 reliably end up with us being good? There is a sense in which it is *absurd* to talk 7
8 about being 'trained' to be a good human being. Being a good human being is 8
9 something which must go *beyond* any training. 9

10 Consider the relationship between a trainee and a trainer. The traditional 10
11 social scientist sees himself as in a position of superiority as regards the objects 11
12 of his study. He considers that he will understand those 'objects' better than they 12
13 understand themselves. In an important sense Winch reverses that order of priority: 13
14 what the social scientist should be trying to do is to reach the position that those 14
15 'objects of study' are already in. *They* are in a position to 'train' the social scientist. 15
16 (This is a startling conceptual shift. It discomfords us, as participants in a formal 16
17 educational setting, nominally becoming 'Masters' of something ...) 17

18 Winch says (p.88) that 'A historian or sociologist of religion must himself 18
19 have some religious feeling ...' This is an intriguing and controversial claim, 19
20 turning the traditional idea of 'objectivity' on its head. Winch suggests that 20
21 similar and equally far-reaching claims apply in both aesthetics and economics, 21
22 for example. It is interesting to contrast Winch's remarks on Economics with 22
23 the line taken by Milton Friedman regarding the axiomatisation of profits and 23
24 returns, for example. 24

25 Expanding upon Winch's remarks, one might say that economists' uses of 25
26 terms such as 'liquidity preference' *describes* and *connects* with key problems 26
27 quite well. However, does economics fully *understand* the problems it describes? 27
28 Are the descriptions it gives prejudicial when they don't return to (as Winch puts 28
29 it) what they are 'logically tied to?' If not, does economics have the resources 29
30 to offer solutions (or indeed: how *could* it)? It is possible that its solutions and 30
31 explanations may in fact *entrench* problems rather than solve them, as arguably 31
32 happens when problems are addressed through the lens of a rational choice 32
33 framework, and a solution such as increasing the degree of free choice people have 33
34 is proposed. Might not additional 'freedoms' make a problem worse? 34

35 Let's briefly examine some of the ideas of a leading 'positive economist', 35
36 Milton Friedman, with questions such as these in mind. The central idea in 36
37 monetarism was that if the money supply was controlled, this would benefit the 37
38 economy in a number of ways. Thus, Monetarism depended upon the possibility of 38
39 controlling the money supply in order to bring about such benefits. However, the 39
40 central problem in Monetarism (which was invisible to positive economics though 40
41 would *not* be invisible from a 'Winchian' point of view) was the problem of the 41
42 *concept* of money. Monetarism took 'money' to be something entirely tangible and 42
43 measurable, and thus, assumed that various policy measures could be used which 43
44 would control the amount of this 'stuff' which was circulating around. 44

1 However, the way that people understood the concept of money was (and is) rather 1
 2 different. They didn't think that money was what the monetarists told them it was: 2
 3 they thought it was whatever they could *use as money*. (Circular definitions are 3
 4 often the best kind, in understanding society, as opposed to in practicing science!) 4
 5 What tended to happen in economies run on monetarist principles was that as soon 5
 6 as the government identified something as 'the money supply' and attempted to 6
 7 control it, people began to find ways of using other things *as money*. Thus, that 7
 8 which was identified as *the* money supply ceased to be *the* money supply. 8

9 Money is not *stuff*: the amount of money in the world can't be counted, however 9
 10 counter-intuitive such a point may seem. Money, one might say, is its use. (As an 10
 11 aside here: Look at section 120 of Wittgenstein's *Philosophical Investigations*, a 11
 12 work that greatly influenced Winch.) One might think about this in terms of credit 12
 13 card use, debt etc. One might say that monetarism was eventually abandoned 13
 14 because the way that people understood and used its central concept (namely 14
 15 'money') continually moved away from the way that the economists were trying 15
 16 to use it, and the model could not account for this. Indeed, the model *caused* its 16
 17 own failure. 17

18 This is a phenomenon that knows no counterpart in (natural) science. In natural 18
 19 science, there is no such thing as a scientific law being undermined by its own 19
 20 assertion. 20

21 21
 22 22

23 **Week (5) A Hard Case: Winch on Anthropology** 23

24 24
 25 Winch's article, '*Understanding a Primitive Society*' (*UPS*) is specifically 25
 26 concerned with the issues raised by the would-be social-science of social 26
 27 anthropology, though of course it has a wider potential interest. 27

28 For Winch, Azande beliefs are a genuine *mystery* – the Azande's belief that 28
 29 some of their members are witches, for example. This is not something that can 29
 30 be understood by means of a straightforward analogy with something already 30
 31 known by us. It will take something special to understand (or at least avoid badly 31
 32 misunderstanding) a primitive society. The Azande, Winch says, hold beliefs 32
 33 that we *cannot possibly* share, and they engage in practices that it is 'peculiarly 33
 34 difficult' for us to comprehend. 34

35 Therefore, if it is true that in trying to understand the social world we have a 35
 36 genuine head-start, in virtue of being competent social actors ourselves, there are 36
 37 nevertheless cases (like the case of the Azande) where we need to ask some very 37
 38 serious questions. The Azande thus constitute a hard case, a crucible in which to 38
 39 test the ideas of someone like Winch, and find out whether or not they are wanting. 39
 40 Winch looks at the Azande precisely in order to see whether what he (Winch) has 40
 41 been saying is actually going to work, outside the examples in relation to which 41
 42 he developed his own argument. You might very roughly say that he is taking a 42
 43 Popperian attitude towards his own hypothesis (the 'hypothesis' that the very idea 43
 44 44

1 of a social science is questionable, and that social understanding is pre-eminently 1
2 non-scientific) ... 2

3 The question of difference is of profound importance to Winch, and the 3
4 problem in the case of the Azande is one of understanding people who are at a 4
5 great distance from us. The ‘tempting’ or ‘natural’ thing to do when one encounters 5
6 a genuinely puzzling social phenomenon is to try to find ways of quickly bringing 6
7 it closer to one: to find ways of inserting it into a familiar conceptual frame of 7
8 reference, thus enabling one to (seemingly) understand or explain it. That is what 8
9 Winch thinks Evans-Pritchard is doing, as any *social scientist* would do, and that 9
10 is what he thinks (in a case such as the Azande) it is a mistake to do. A ‘mistake’ 10
11 of heroic proportions. 11

12 Winch warns us against assuming that, when encountering a social phenomenon 12
13 that is distant from us, we should instantly try to bring it *closer* to us. Find an 13
14 analogy for it within our own experience. Find something that it can be modelled 14
15 on. Perhaps in order to get anywhere in understanding the social world, we have 15
16 rather to take *difference* very seriously. Perhaps difference even needs sometimes 16
17 to be *exaggerated*. Perhaps that is a sound ‘methodology’ to adopt in such cases. 17
18 In contrast, trying to understand Azande practices by direct analogy with our own 18
19 scientific and technological practices is an attempt to make them appear too alike 19
20 (to us), as well as (obviously) making it difficult to avoid looking down on them 20
21 and seeing them as systematically plain stupid, when this is unlikely perhaps to be 21
22 the case. Therefore, such an approach risks occluding their real difference, and, 22
23 ironically, makes it impossible for us to understand those practices as they really 23
24 are, to understand where they actually are and are not akin to our own. 24

25 Thus, for Winch, Azande magic is *not* failed science. Those who asserted that 25
26 it is were taking a ‘Whiggish’ approach – exactly the kind of approach that *Kuhn* 26
27 took his predecessors in the philosophy of science, unhelpfully, to have taken! In 27
28 order to genuinely understand past science, one has first to understand it on its own 28
29 terms, and understand thus its very great difference from the science of our own 29
30 time, and not see it merely as a failed first pass at our science. Similarly, in order 30
31 to understand genuinely alien cultures, one has first to understand how they hang 31
32 together on their own terms, and not see them as a failed first pass at our culture. In 32
33 order to understand such practices, in sum, we need to put them at a real distance, 33
34 and we need to ensure that they *remain* at that distance for a good while. 34

35 Winch’s is thus a profoundly similar idea to Thomas Kuhn’s, when he talks 35
36 about incommensurability. To detail the similarity a little more, because this is 36
37 at the very heart of what we are doing in this course: For Kuhn, understanding 37
38 the history of science involves understanding that there are scientific *revolutions*, 38
39 eruptions in the history of thought. These revolutions are incomprehensible 39
40 to scientific empiricists (who see only accumulation, normal science) and to 40
41 falsificationists (who cannot see enough normal science and paradigm taken- 41
42 for-granted in order to see revolutions against that background; indeed, for the 42
43 followers of Popper, it is as if there is only revolution ... but this is a picture of 43
44 philosophy (or perhaps sociology!), not of (real) science). The way that chemists 44

1 thought before the chemical revolution was fundamentally different from the way 1
 2 they thought afterwards. Aristotelian physics is fundamentally different from 2
 3 Copernican physics. One cannot rightly conceive of the Aristotelian attempting to 3
 4 do what the Copernican is doing and yet somehow failing or *not yet* succeeding 4
 5 at doing it. One must attempt to understand the old scientists on their own terms. 5
 6 There is therefore a serious analogy between Kuhn and Winch. 6

7 While social anthropologists such as Evans-Pritchard take our scientific and 7
 8 technological knowledge for granted, and then try to understand (for example) 8
 9 Azande magic, Winch suggests that in order to *understand* Azande magic, one 9
 10 has to ‘put aside’ that scientific and technological knowledge – to think around it 10
 11 or behind it in order to have a chance of understanding such deeply puzzling and 11
 12 seemingly incomprehensible practices. 12

13 To return for a moment to Winch’s remarks in *ISS*, the task of the would-be 13
 14 social scientist is not like the task of the scientist, but like the task of the person 14
 15 trying to comprehend, e.g. the trainee scientist. Again: we must in a certain sense 15
 16 *let ourselves be trained* by those we seek to understand: senior scientists, in the 16
 17 case of natural science; *those we seek to study*, in the case of ‘social science’ ... 17
 18 Thinking of Kuhn’s suggestion that we should not conceive of science as inevitable 18
 19 progress to where we are now, or of ‘old’ scientists as failed or immature versions 19
 20 of present day scientists, helps us see the strength of the Kuhn/Winch analogy. 20
 21 When one is being a historian of science as opposed to a practicing scientist, one 21
 22 should attempt to notionally put aside the scientific knowledge one has. 22

23 Winch is saying something similar. In studying the Azande, for example, one 23
 24 needs to attempt to imaginatively enter into their different world view. Only then 24
 25 may one be able to see how it makes sense. 25
 26 26

27 *Student – Do we have to ‘think around’ our conception of rationality? – or just our 27*
 28 *conceptions of technology and science?* 28
 29 29

30 That’s a vast and interesting question. In part two of *UPS* Winch suggests that 30
 31 one needs a concept of rationality in order to take any investigation into *anything* 31
 32 seriously. We might here distinguish between *concept* and *conception*. Of course, 32
 33 if this distinction is just meant as piece of philosophical sleight-of-hand then one 33
 34 might not be impressed by it; but it might in fact be genuinely very useful. We do 34
 35 not, of course, want to abandon the whole concept of rationality – that would be 35
 36 crazy. However, we might think seriously about the fact that there can be *different* 36
 37 *conceptions* of reality and different conceptions of what rationality is. What we are 37
 38 trying to understand in the case of the Azande is an alien *conception* of rationality. 38

39 I might answer your question by saying that what Winch wants to do is to keep 39
 40 open the possibility that there is a conception of rationality at play among the 40
 41 Azande and not merely a *failure* to be rational. The right approach may be to look 41
 42 at Azande practises as though they *did* hang together, Perhaps one should seek out 42
 43 the nature of the Azande’s game as it is played. We can contrast such an approach 43
 44 44

1 to that of treating such practices as though they could not *possibly* hang together, 1
2 because (e.g.) they do not push certain ideas to their logical conclusion. 2

3 3

4 *Student: Winch has been accused of being a relativist, and even of considering that 4*
5 *primitive society is in important respects superior to our own.* 5

6 6

7 That raises an interesting question: the question of whether there are some 7
8 desirable features of ‘primitive society’ which we have lost. For example, one 8
9 might consider how many primitive societies consider themselves more tightly 9
10 connected to, or part of, *the land or the earth*. Is this is an old superstition which 10
11 we have grown out of; or is it something we have actually *lost*? This connects to 11
12 some of the wider themes I have asked us to address: for example, if we think 12
13 about the important differences which (I suggest) exist between natural and social 13
14 science and therefore we think about the social differently from the way we think 14
15 about the natural, does that mean that there is a divorce between the two, as has 15
16 often been argued? That would be unwelcome. How does this relate to the notion 16
17 of the eco-system (or ‘the environment’), that we raised in Lecture 1? Can *that* 17
18 notion unite the two? One might consider the thought that it is in some sense 18
19 *easier* for a primitive society to think environmentally or ecologically than we 19
20 do. Crucially, Winch *isn't* trying to say that we can't criticise, and still less that we 20
21 can't disagree with the Azande. The possibility of criticism and disagreement of 21
22 course remains. It would be very odd, having read *UPS*, to think that one should 22
23 become like the Azande and adopt their practices. 23

24 But a sense of closer-than-close connection with the land; that is something 24
25 that it would be better I think not to have lost. What we have wisely lost of 25
26 old conceptions of the sacred is perhaps their sense of the *specificity* of sacred 26
27 land. We cannot take seriously that such and such a *particular bit* of land is 27
28 the Promised Land, or such like. But if we cannot take seriously that the land 28
29 *as a whole* is in some sense sacred, in some sense *us*, and if we cannot easily 29
30 therefore think of the physical and the social (the human) as *one*, then we have I 30
31 think unwisely lost something. 31

32 However, these broadly ethical or spiritual questions are in some sense 32
33 secondary, from our point of view in this class. What Winch is primarily interested 33
34 in is the question of *understanding*. He is questioning the social scientific desire to 34
35 explain, and worrying that the desire to explain can *get in the way* of understanding. 35

36 The issue is: what have we established about the Azande by means of social- 36
37 scientific explanation? Have we been able to establish that the Azande are not 37
38 to be ‘followed’ by means of a social scientific explanation? Not at all, Winch 38
39 suggests. The task of social anthropology should be to attempt to reach genuine 39
40 *understanding*, not just a rephrasing of our prejudices. We don't *need* social 40
41 anthropology to tell us we are not going to adopt the Azande way of life. However, 41
42 social anthropology would be doing something useful if it helped us to understand 42
43 what that way of life actually *is*. Winch believes such understanding is possible if 43
44 one moves beyond the approach of someone like Evans-Pritchard, for example. 44

1 As regards the charge of relativism, Winch himself argues strongly against 1
 2 it. He wants to suggest that reality is what it is independently of our *talk*: if one 2
 3 maintains that reality does depend upon our talk, then one is left with a kind of 3
 4 philosophical idealism, of which relativism is just a sort of ‘pluralised’ case. Thus, 4
 5 what one is trying to do in trying to understand others in the social world is not 5
 6 trying to uncover the nature of reality, but trying to uncover the nature of people’s 6
 7 *accounts* of or *ways of taking* reality. Therefore, again: understanding society is 7
 8 more akin to understanding scientists than it is akin to understanding science/ 8
 9 understanding the natural world. 9

10 In *UPS*, Winch addresses and takes seriously the possibility that there can be 10
 11 coherent universes of discourse which are not ‘like science.’ Winch is challenging 11
 12 the assumption at the heart of traditional social scientific accounts (such as Evans- 12
 13 Pritchard’s) that the only valid way of thinking about society is to produce a 13
 14 coherent universe of discourse ‘like science’ about the society in question. 14

15 Winch suggests that we should engage in a process of reflection in order to 15
 16 understand things which are genuine puzzling. If we do so, we *must* be open to 16
 17 the possibility that we will be *changed* by such a process. If Winch is right, then 17
 18 there is a sense in which the student of society has to *participate* in what it is that 18
 19 is being described or observed and so on – and how odd it is that this was not 19
 20 always *obvious*: 20

21 These are human beings in a social setting, after all. Isn’t there something 21
 22 fundamentally misleading (perhaps even fundamentally *unethical*) in assuming 22
 23 that one would not be *affected* by what one saw? 23

24 Consider the example of someone who *observes* some children drowning in a 24
 25 pond. It is in a crucial sense *only* a difference of degree between *that* and what the 25
 26 social anthropologist, the sociologist or the economist does. How could a ‘social 26
 27 scientist’ justify ‘simply observing’ the society in question? As if they were a 27
 28 Martian. Winch is telling us something which should have been obvious: and yet 28
 29 the ideal of social science and the ideal of objectivity makes it seem as though the 29
 30 opposite should be true. 30

31 So now, thinking of more or less coherent universes of discourse that are not 31
 32 like science. Still, we have to see how the discourse in question can be justly 32
 33 termed ‘coherent’. A question at the heart of *UPS* is: how do we cope with the 33
 34 fact that it seems that the Azande are committed to a contradiction (their particular 34
 35 conception of witchcraft)? We are not, after all, talking about people who have 35
 36 radical hallucinations in the same sense that some psychotics experience (at least 36
 37 temporarily) a different world. Yet, somehow, their world is profoundly different 37
 38 from ours. (A useful comparison here is: the intriguing verbal formulations that 38
 39 Kuhn resorts to in the section of *The Structure of Scientific Revolutions* called 39
 40 ‘Scientific revolutions as changes in world view.’) 40

41 Winch (and Wittgenstein in his *Remarks on Frazer’s ‘Golden Bough’*) 41
 42 reminds us that Azande practices are not intended to *substitute* for science and 42
 43 technology, and that in thinking that they have found the counterparts to science 43
 44 44

1 and technology in these practises, social anthropologists such as Evans-Pritchard 1
2 are perhaps looking for explanations in the wrong places. 2

3 Winch asks, in effect: 'To *whom* are Azande practices allegedly unintelligible?' 3
4 He is surely not asserting that their practices are entirely impenetrable to us. But, 4
5 if you make certain assumptions about taking thoughts through to their logical 5
6 conclusions. One can argue that there are inherent contradictions at the heart of 6
7 our most fundamental practices (such as arithmetic), and that in ignoring these 7
8 contradictions, mathematicians are simply not taking their thought to its logical 8
9 conclusion. For instance: on what grounds is division by zero disallowed? Isn't 9
10 this just a refusal to pursue arithmetic 'to its logical conclusion'? *This is just* 10
11 *the same kind of observation that Evans-Pritchard makes of Azande practices.* 11
12 Winch suggests that when the Azande appear to resist 'taking their thought to its 12
13 logical conclusion' one should see it not as a failing, but as itself an integral part 13
14 of a coherent universe of discourse, just as the discourse of mathematics does not 14
15 include division by zero, and yet remains coherent and reasonable precisely by 15
16 virtue of such non-inclusion. 16

17 By way of conclusion, a Winchian question: Isn't it Evans-Pritchard, in 17
18 attempting to 'press Azande thought where it would not naturally go' who is guilty 18
19 of a misunderstanding, and not the Azande themselves? This is what Winch means 19
20 by talking of Evans-Pritchard as, roughly, committing a 'category-mistake'. 20

21

22

23 **Week (6) Wittgenstein among the Human Sciences** 23

24

25 In a discussion between two people concerning whether or not there is an aeroplane 25
26 overhead, there can be fairly unproblematic agreement or disagreement between 26
27 them. The participants in the discussion, are in this case, we might say, fairly *near*. 27
28 However, a disagreement over a religious matter between a religious and a non- 28
29 religious person is not of the same nature. The superficial resemblance between 29
30 the different sentences used in the discussion should not lead us to think that the 30
31 participants in the discussion are *near to* each other. For example: 31

32

33 There is *x* overhead. 33

34

34 There will be *y*. 34

35

36 If *x* and *y* are *rain* or *an aeroplane overhead*, one can debate the matter in a (more 36
37 or less) scientific way. However, what if *x* is *an aeroplane overhead* and *y* is *a* 37
38 *last judgement*? The two sentences still look superficially similar, but Wittgenstein 38
39 suggests, in his *Lectures On Religious Belief*, that there is a great distance between 39
40 the person who says there will be a last judgement and the person who says that he 40
41 is 'not so sure.' In such a case, can one not be misled by the superficially similarity 41
42 of the sentences? 42

43 One way of addressing the issue is to consider the standard way in which we 43
44 think of belief in God. We think, perhaps, that there are three possibilities: 44

- 1 1. Theism (the belief that there is a God); 1
- 2 2. Atheism (the belief that there is not a God); 2
- 3 3. Agnosticism (neither the belief that there is God nor the belief that there 3
- 4 is not). 4

5 5

6 According to this model, it appears that agnosticism is a ‘don’t know’ position 6
 7 between theism and atheism. However, according to the conception of these 7
 8 matters put forward by Wittgenstein, things surely appear to be rather different. 8
 9 If one stops thinking of the above options as *theoretical* claims, and considers 9
 10 them more as belief *in* or trusting *in*, or perhaps as a *commitment to* something, 10
 11 then agnosticism and atheism start to look a lot more similar to each other. The 11
 12 theist is the person who has, uses and commits to a certain set of pictures, which 12
 13 neither the atheist nor the agnostic has, uses nor commits to. According to this 13
 14 conception, the only difference between the latter two is that the atheist sets 14
 15 his face against those pictures, and the agnostic just says ‘I don’t know.’ Thus, 15
 16 the idea of agnosticism as an intermediate position begins to look somewhat 16
 17 misleading. There is, rather, a gulf between the *commitment(s)* of the theist, the 17
 18 religious believer, on the one hand, and the *absence* of (any such) commitment of 18
 19 both the atheist and the agnostic, on the other. (This in turn implies that there is 19
 20 something fishy about the standard way in which agnostics take themselves. They 20
 21 take themselves to be respectably half-way between two ‘dogmatic’ alternatives, 21
 22 to be wisely uncommitted; but actually, they are already committed. From the 22
 23 believer’s point of view, they have already chosen very firmly where to stand and 23
 24 (more importantly) where they are not prepared to stand.) 24

25 Wittgenstein tells us that in believing or not in a judgement day, the expression 25
 26 of belief may play an absolutely minor role. The expression of belief here refers to 26
 27 the belief *that* so-and-so is the case, or believing *that* so-and-so exists. Thus, in an 27
 28 important sense I cannot contradict the religious person when she says ‘I believe 28
 29 there will be a last judgement.’ Because whatever *I* deny belief in will not be what 29
 30 *she* believes in. Because what she believes in is not something that can be put in 30
 31 terms of a simple ‘[I believe that] Such-and-such is the case’ clause, as if it were a 31
 32 scientific claim or a simple factual remark. 32

33 These remarks of Wittgenstein’s are, I believe, of crucial importance to the 33
 34 social studies. For example, if one actually tries to *understand* what the religious 34
 35 person is saying in such a case, rather than simply theorising about it and assuming 35
 36 that one already knows what they mean, it will potentially deeply involve one *as a* 36
 37 *person*, not just as an external observer, an outsider. 37

38 One might want to say that the impossibility of contradiction implies the 38
 39 impossibility of understanding: however, Wittgenstein’s remarks suggest rather that 39
 40 coming to understand involves recognising that there is a great deal of complexity 40
 41 in the idea of contradiction (and also, I would suggest: of understanding) in some/ 41
 42 such cases. Coming to understand, in other words, may involve roughly the kind 42
 43 of effort and work and indirection required of someone trying to understand Zande 43
 44 witchcraft (or Aristotelian physics). What one is doing (in the expression of belief 44

1 in a last judgement, for example) is not, Wittgenstein suggests, akin to making a
2 quasi-factual claim, open to straightforward contradiction.

3 Practices such as burning effigies, or the probably-more-familiar one (to us)
4 of kissing a picture of one's beloved, are obviously *not* practices performed in the
5 belief that there will be some specific causal effect on the object that the effigy or
6 picture represents. It is perhaps in picking the right objects of comparison that we
7 can begin to see that we are not *so* deeply different from (for example) the Azande
8 after all.

9 Perhaps we exaggerate the extent to which our lives are ruled by the ideals and
10 methods of science and technology. These reflections can perhaps help us to better
11 understand what Winch is attempting in *UPS*.

12 It is interesting to note that both Wittgenstein's criticisms of Frazer and
13 Winch's criticisms of Evans-Pritchard suggest that those anthropologists are (in a
14 sense) *more primitive* than the people they are interpreting, in that *they* are making
15 the scientific – or superstitious – errors which they accuse the people they are
16 interpreting of making. This is an interesting way of highlighting the radicalism of
17 the critique that both Wittgenstein and Winch are engaged in. The danger of doing
18 social science when it is not appropriate is that one may end up doing something
19 *primitive* in the guise of doing something sophisticated and epistemologically
20 'superior.' One may *impoverish* one's existing understanding, and preclude better.

21 Winch proposes a radical picture (not a theory) of human beings as being
22 'internally related' to each other. This 'picture', of course, has antecedents, in
23 Wittgenstein and elsewhere. Human beings are not (according to this picture)
24 related to each other *as separate things*. The scare quotes around 'internally related'
25 are significant, in that, in an important sense human beings are not *related* to each
26 other *at all*, because the idea of an internal relation implies the idea of inseparable
27 parts constituting a greater whole. (Once again, the notion of insiderhood may be
28 helpful here. We are, one might say, inhabitants of and inhabited by each other, and
29 perhaps of and by language, too ...)

30 Thus, any talk of 'relation' implies the idea of separation, and the sense in
31 which Winch talks of human beings as 'internally related' to each other is that they
32 are intrinsically one and the same thing. *Not* separated.

33 However, can one leave things at that? One might even accept the idea of
34 human beings as internally related, whilst continuing to think of human beings as
35 *externally* related to the world. Such an assumption is challenged by a genuinely
36 ecological point of view, in which one considers human beings as embedded
37 within an eco-system to which we are internally (and fundamentally) related, as
38 well as to each other.

39 Such issues are of fundamental importance in thinking about how we might
40 go beyond the traditional natural/social science dispute. Do Wittgenstein's and
41 Winch's ideas have a deeper potential application? How are we to think about the
42 environmental sciences in the context of such ideas? If such ideas were extended
43 and applied hereabouts, then environmental science would perhaps no longer be
44 understood as being a matter of understanding something which is essentially

1 outside of or external to oneself, as is the case in biology or physics. I can study 1
 2 my own liver as if it were an organ in another's body. But if I study human or 2
 3 other beings as if they were not in a dialectical and co-constitutive 'relation' with 3
 4 their ecosystem, then I fail to study them properly at all. To *be* scientific, in this 4
 5 connection, demands being and knowing oneself to be on the inside ... 5
 6 Such a possibility as just described seems to me one of the most potentially 6
 7 fruitful upshots of a Wittgensteinian perspective on 'the human sciences', a 7
 8 perspective which (as we have seen) is further developed in the work of Kuhn and 8
 9 Winch. If this course of six lectures has left you in a good position to consider such 9
 10 a possibility, then it will have more than achieved its objectives. 10
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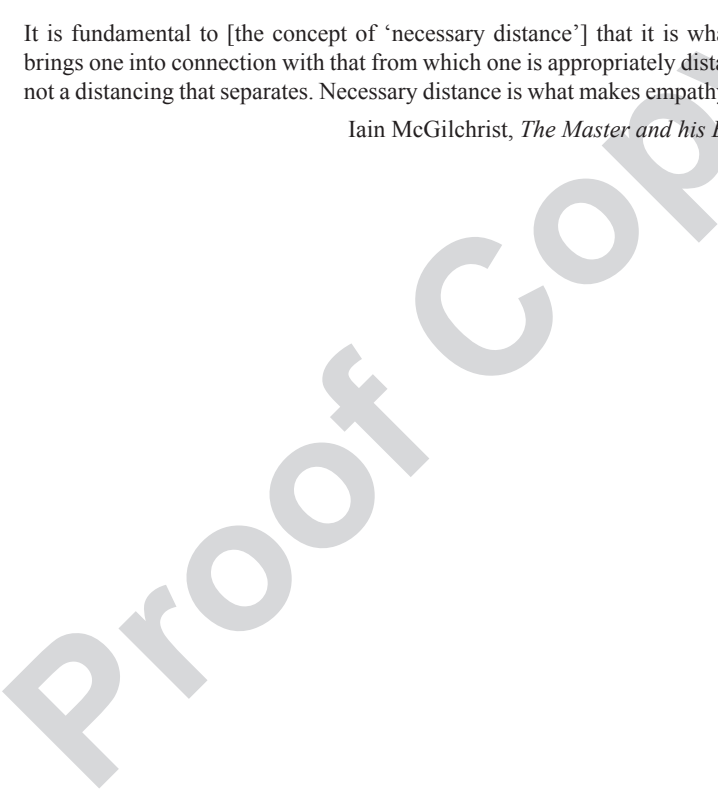
PART 1
Wittgenstein, Kuhn and
Natural Science

Science: A Perspicuous Presentation

It is fundamental to [the concept of 'necessary distance'] that it is what actually brings one into connection with that from which one is appropriately distanced; it is not a distancing that separates. Necessary distance is what makes empathy possible.

Iain McGilchrist, *The Master and his Emissary*: 282.

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1.1 Is Kuhn the Wittgenstein of the Sciences?¹

To the different networks correspond different systems of describing the world. Mechanics determines a form of description by saying: All propositions in the description of the world must be obtained in a given way from a number of given propositions – the mechanical axioms.

Ludwig Wittgenstein, *TL-P*, 6.341.

In this Section, which is among other things an ‘introductory’ Section to and of this, Part 1, I remind the reader of the explicit presence in Kuhn of elements of a therapeutic understanding of the process of science itself, at times when science gets ‘ill’. I then offer a reading of the most controversial chapter of *Structure of Scientific Revolutions*² (on ‘world-changes’) highlighting the delicately therapeutic manner in which it is *written*, a manner of careful composition which draws the sting from the still-widespread uncharitable reading of that chapter as committing Kuhn to (what *would* be clearly un-Wittgensteinian) a substantive semantic relativism. If my reading is successful, it defeats the strongest textual evidence there is for a problematically relativist reading of Kuhn.

Thus 1.1 assembles crucial evidence for Kuhn as a therapeutic thinker in a more or less Wittgensteinian mold, and suggests some reason for thinking of Kuhn as a truly Wittgensteinian philosopher of science. This sets the scene for the remainder of Part 1, and to some extent for the book as a whole, insofar as what the book is concerned with is an assessment of the extent to which it is helpful to regard a *variety* of disciplines as ‘science(s)’.

This book is called *Wittgenstein among the Sciences*. In relation to the philosophy of (natural) science, I propose to take Kuhn as a kind of proxy for Wittgenstein. So, in making such a proposal reasonably initially-plausible, it is reasonable for the reader to expect me to have something at least to say about the following question: How was Kuhn influenced by Wittgenstein?

The evidence suggests that Kuhn learned a huge amount from the greatest Wittgensteinian philosopher of our time, and just possibly the greatest living philosopher, his own-time colleague, Stanley Cavell. Look for instance at page

¹ The present Section contains within it a revised version of some bits of material originally presented in T. Kuhn, ‘The Road Since *Structure*’, *British Journal for the Philosophy of Science*, 55:1 (2004), 175–178.

² Henceforth *SSR*. All subsequent page references are to the following edition: Kuhn, T.S. (1962/1996) *The Structure of Scientific Revolutions*. 3rd ed. Chicago: University of Chicago Press.

1 297 of the interview with Kuhn in *The Road since Structure*: ‘extraordinarily 1
 2 important’ (emphasis in the original), is how Kuhn describes Cavell’s early 2
 3 influence on him, while they were both young bloods. (It’s true, Cavell was 3
 4 mostly ‘Austinian’ then, in those young days; but he was already understanding 4
 5 Austin in a fairly Wittgensteinian way (as we New Wittgensteinians, for example 5
 6 Crary (2002), believe Austin *is* best understood). Kuhn picked up on Wittgenstein 6
 7 from Cavell, from Hansen, from Feyerabend, and from the general intellectual 7
 8 zeitgeist of the time and place. One should bear in mind also the crucial moment 8
 9 when Kuhn *cites* Wittgenstein, a few chapters into *SSR*, in the section called ‘The 9
 10 priority of paradigms’. This is a really important influence, in itself: because of the 10
 11 utter centrality of paradigms to Kuhn’s philosophy of science. Kindi (1995) and 11
 12 Jean-Paul Narboux are among those who have rightly made a great deal of this 12
 13 connection. The point that Kindi and Narboux both make at length is not just about 13
 14 affinities. It is about how crucial that explicitly Wittgensteinian moment in *SSR* is 14
 15 for Kuhn’s whole – broadly Wittgensteinian – project. 15

16 *But*, more than these historical points, the affinities between Kuhn and 16
 17 his great predecessor Wittgenstein are, I want to say, *evident*. Take for instance the 17
 18 closing paragraph of ‘Reflections on my critics’ in Kuhn (2000): 18

19
 20 What each participant in a communication breakdown has found is a way 20
 21 to translate the other’s theory into his own language and simultaneously to 21
 22 describe the world in which that theory or language applies. Without at least 22
 23 preliminary steps in that direction, there would be no process that one were 23
 24 even tempted to describe as theory choice. Arbitrary conversion (except that I 24
 25 doubt the existence of such a thing in any aspect of life) would be all that was 25
 26 involved. Note, however, that the possibility of translation does not make the 26
 27 term ‘conversion’ inappropriate. In the absence of a neutral language, the choice 27
 28 of a new theory is a decision to adopt a different native language and to deploy 28
 29 it in a correspondingly different world. That sort of transition is, however, not 29
 30 one which the terms ‘choice’ and ‘decision’ quite fit, though the reasons for 30
 31 wanting to apply them after the event are clear. Exploring an alternative theory., 31
 32 one is likely to find that one is already using it (as one suddenly notes that 32
 33 one is thinking in, not translating out of, a foreign language). At no point was 33
 34 one aware of having reached a decision, made a choice. That sort of change is, 34
 35 however, conversion, and the techniques which induce it may well be described 35
 36 as therapeutic, if only because, when they succeed, one learns one had been 36
 37 sick before. No wonder the techniques are resisted and the nature of the change 37
 38 disguised in later reports (Kuhn, 2000: 174). 38

39
 40 This passage is exemplary of the concentrated brilliance of Kuhn’s writing, and of 40
 41 the depth of his own quite distinctive contributions to the philosophy of science 41
 42 (e.g. the explanation of why the history of science tends to read as if there have not 42
 43 been scientific revolutions). It also evidences something that will be important to 43
 44 us in the Sections to follow: Kuhn’s (sometimes slightly desperate) wish to make 44

1 himself comprehensible (on their own terms) to the ‘Analytic’ philosophers by 1
 2 whom he was most harshly criticised. 2

3 The passage *also* makes *visible* a whole series of inheritances from or (at the 3
 4 least) deep parallels with/affinities to the philosophy of Wittgenstein: 4
 5 5

- 6 • The emphasis on the real possibility of communication breakdown, but 6
 7 further the possibility that *some* such breakdowns are productive of a *new* 7
 8 understanding; 8
- 9 • the open willingness to entertain or utter words (phrases, sentences) that 9
 10 are provocative or even paradoxical, together with the repudiation of 10
 11 immodest, dogmatic readings of those words; 11
- 12 • the repudiation of objectivist fantasies and the permission of conceptual 12
 13 difference, without the commission of relativist theorising; 13
- 14 • great care over the words we do use, and over the words we *want* to use – 14
 15 and over their limits; 15
- 16 • the prioritisation of practice, even when what is being practiced is a theory, 16
 17 or theorisation; 17
- 18 • and lastly, and most strikingly of all, a metaphor of illness, an emphasis on 18
 19 the variety of methods by which one may try to cure oneself (or others), and 19
 20 an explicitly therapeutic conception of such cure. 20
 21 21

22 The passage helps one to *see* the fundamental point that Sharrock and I were 22
 23 urging in our Wittgensteinian reading of Kuhn, in our book: that Wittgenstein can 23
 24 help one to understand that Kuhn doesn’t threaten the objectivity of science. 24

25 We should pause a moment, however, before proceeding to identify Kuhn and 25
 26 Wittgenstein *too* closely, and perhaps even calling Kuhn a ‘Wittgenstein of the 26
 27 sciences.’ For while Wittgenstein more or less identifies *himself* as a midwife of 27
 28 change in philosophy (in oneself), as a therapist (albeit one who, like Freud, has 28
 29 to cure himself as well as, or perhaps before, curing others), the analogous or 29
 30 parallel figure in the quotation just examined is not *Kuhn*, but rather *the scientist* 30
 31 at the point of crisis and transition. It is the scientist at a moment of extraordinary 31
 32 or revolutionary (conceptual) change who may describe his earlier self or his old 32
 33 paradigm as having been sick, monstrous, or an unhealthy or unholy mess. 33

34 This of course should not actually surprise us: Kuhn always made it clear that, 34
 35 if science ever resembled philosophy, it resembled it somewhat at the moments of 35
 36 crisis; whereas (for example) Popper wanted science to be like philosophy, in the 36
 37 sense of always starting from ground-zero, and always being revolutionary. 37

38 So: *Is* the new, radical, (non-)philosophy of Ludwig Wittgenstein to be found, 38
 39 ‘in disguise’, in Kuhn’s philosophy of the sciences? That is the overarching 39
 40 question of this Section. 40

41 Kuhn’s primary reputation is as the great leveler, reducing natural science 41
 42 to the level of all other disciplines. And, in other words: as the great relativist, 42
 43 holding that whatever view of the world works for a given discipline at a given 43
 44 time is the truth. Kuhn has certainly gone down in sociological and post-modern 44

1 circles in roughly this way³ and so, very often, has Wittgenstein, such that it might 1
 2 well seem that *Kuhn is indeed a Wittgenstein of the sciences*. My argument is that 2
 3 there is at least some good reason to hold the italicised thesis to be the case – but 3
 4 absolutely *not* for the reason so far sketched in this paragraph. 4

5 Kuhn is a very different figure from the almost cartoon-character that his 5
 6 ‘foes’ and ‘fans’ both depict.⁴ In my understanding, Kuhn’s fundamental task was 6
 7 simply to understand – or rather, better, to find a mode of presentation that would 7
 8 ultimately avoid *misunderstanding* – the nature of science, including, of course, 8
 9 scientific change both minor and major. He wanted, if you like, to return us to 9
 10 science, (yet) to leave science as it actually is;⁵ science as we are returned to it is 10
 11 probably not science as we ever succeeded in seeing it before reading Kuhn. Yet it 11
 12 *is* science as it (actually) is. Kuhn, for the first time ever, offers us successfully, I 12
 13 believe, a historically-valid picture of the whole of science. Not just a formalistic 13
 14 caricature of normal science (as with Positivism), nor a formalistic caricature 14
 15 of revolutionary science (as with Falsificationism). Rather, a non-caricatural, 15
 16 historically based, philosophically subtle and modest account of (the totality of 16
 17 the concept of) science. 17

18 The main thing I want to address here – in this Section, *and* in the 18
 19 remainder of Part One of this book – is the issue which, to many readers, has 19
 20 appeared to be the biggest *problem* with the attribution to Kuhn of a modest, properly 20
 21 ‘Wittgensteinian’, approach, of a leaving of science ‘as it is’, of a refraining from 21
 22 substantive metaphysical or even epistemological commitments. That big problem 22
 23 is encapsulated in the famous moments in *SSR* when Kuhn has appeared most 23
 24 strongly to violate such a counsel of modesty: namely, in his discussion of ‘world 24
 25 changes’. For many of his readers, in talking of the world changing when science 25
 26 changes – through ‘scientific revolution,’ – Kuhn has fallen into some kind of 26
 27 metaphysical relativism, or pluralistic idealism. 27

28 Most of what I suggest below is in fact very elementary. I am simply 28
 29 going to read some of the most troubling passages in *SSR*, (Section X), *Revolutions* 29
 30 *as changes of world view*. The reader may find it helpful to have the book open in 30
 31 front of them, at the relevant pages. I shall attempt to see if whether those passages 31
 32 can be understood in the modest way I have suggested, without committing Kuhn 32
 33 to a form of metaphysical relativism or such like.⁶ 33

34 Let us begin with pages 110–111 of *SSR*. This is where Kuhn first starts 34
 35 to say things that have sounded very strange to many: ‘I have so far argued only 35
 36 36

37 3 For detailed criticisms of the reading of Kuhn to be found among Kuhn’s ‘followers’ 37
 38 in the social sciences etc., see Read (2001b). 38

39 4 I think the same of Wittgenstein. I think it is clear that he is no Relativist, no Idealist 39
 40 (but also no Realist), etc. See for instance *PI* 402. 40

41 5 My suggestion, therefore, is that Kuhn is practising ‘therapy’ by presenting 41
 42 something to us in a way that engages our (including his own) temptations to misunderstand 42
 43 it, and tries to work through them. 43

44 6 My deep thanks to James Conant, for inspiring this reading. 44

1 that paradigms are constitutive of science. Now I wish to *display a sense* in which 1
2 they are constitutive of nature as well' (Emphasis added). 2

3 Note what Kuhn does not say here. He does not say, for instance, 'Now I wish 3
4 to explain that paradigms constitute nature, as well.' He says he wishes to get at 4
5 *a sense* in which paradigms may be said to constitute nature. And he wishes not 5
6 to set that sense in stone, but to *display* it to his readers, so that it is temporarily 6
7 figural and so does not get completely missed. I think that if we fail to attend to 7
8 the niceties of Kuhn's linguistic expression, then that will be in the end only to 8
9 our own disadvantage. When read carefully, Kuhn's aim here already sounds more 9
10 modest than has usually been allowed. He goes on: 'Examining the record of past 10
11 research from the vantage of contemporary historiography, the historian of science 11
12 *may be tempted* to exclaim that when paradigms change, the world itself changes 12
13 with them.' (SSR: 111, Emphasis added). 13

14 When a temptation comes along – for instance, when one is offered illegal 14
15 drugs – one doesn't necessarily immediately give right in. (And if one does, one 15
16 may come to regret doing so before too long!) In other words: Kuhn is *not* simply 16
17 urging us here to exclaim that the world changes, when paradigms change. Again, 17
18 he does not simply write, 'When paradigms change, the world changes with them.'⁷ 18
19 That is what I want to make crystal clear: Kuhn is not himself in the business of 19
20 saying, 'Scientific revolution, therefore *world change!*' 20

21 Further down the opening paragraph of this Section, we find the following 21
22 passage. And see for yourself how different it sounds, with the emphases falling 22
23 where I have indicated, from the way Kuhn is usually heard, or assumed to be: 23

24 24
25 It is ... as if the professional community had suddenly been transported to 25
26 another planet where familiar objects are seen in a different light and are joined 26
27 by unfamiliar ones as well. Of course, nothing of quite that sort does occur: 27
28 there is no geographical transplantation; outside the laboratory everyday affairs 28
29 usually continue as before (SSR: 111). 29

30 30
31 There is no necessity for *any* world change at all to actually occur. Kuhn is speaking 31
32 almost exclusively of something relevant to scientists, to small professional 32
33 communities, the world of the relevant community of scientists (Compare: The 33
34 world of stamp-collectors, the world of politics, etc.): 34

35 35
36 ... paradigm-changes do cause *scientists* to see the world of *their research-* 36
37 *engagement* differently. In so far as their only recourse to that world is through 37
38 what they see *and do*, we *may want* to say that after a revolution *scientists* are 38
39 responding to a different world (SSR: 111, Emphasis added). 39

40 40
41 41
42 ⁷ This has not stopped people claiming that just that is what Kuhn writes. An 42
43 egregious example is to be found in Gill (1996). Gill (on page 136) misquotes Kuhn so as 43
44 to remove all his (Kuhn's) care, caution and qualification. 44

1 It is scientists who respond to a ‘different world’, not the rest of us. Most crucial of 1
 2 all is the formulation ‘we may want to say ...’. This, at the end of this influential 2
 3 opening paragraph of Section X of *SSR*, echoes the opening of the paragraph, 3
 4 which we looked at above: ‘the historian of science may be tempted to exclaim.’ 4
 5 That we may want to say something does not entail that we should say it. And it 5
 6 strongly suggests that we should at least be wary about the consequences of saying 6
 7 it, if we choose to do so. 7

8 In other words, Kuhn is warning us, through his carefully chosen 8
 9 terminology, and by his repeated indications that there is something potentially 9
 10 dangerous in these ‘temptations’ and ‘wants’ that we are subject to, that it is easy 10
 11 for philosophers to find themselves speaking nonsense. And wouldn’t it certainly 11
 12 seem like nonsense, to speak of paradigms (for example) as constitutive of nature? 12
 13 One is reminded of Wittgenstein’s remark, ‘Don’t *for heaven’s sake*, be afraid of 13
 14 talking nonsense! But *you must pay attention to your nonsense*.’ (Wittgenstein, 14
 15 1980: 56, Emphasis added in final line) 15

16 Some have thought Wittgenstein pathologically anxious to avoid speaking 16
 17 nonsense himself, and all too keen to dole out the critical epithet, ‘Nonsense!’ to 17
 18 others. This is mistaken; ‘nonsense’ is indeed a very important term of criticism, 18
 19 for Wittgenstein, but the point is not to pathologically avoid speaking any, but to 19
 20 be aware of when anyone (including oneself) is apparently speaking nonsense, and 20
 21 of why they want to. Crucially, judgements of ‘Nonsense!’ are provisional: they 21
 22 depend upon convincing the speaker themselves that they did not in fact have a 22
 23 clear intention, and were ‘hovering’ between different possible uses of their words. 23

24 One will *need* to speak nonsense, often, when doing philosophy, if one is not to 24
 25 stay on the barren heights of cleverness, and to fail to actually effectively engage 25
 26 with the temptations of oneself (and of others) to *mire* oneself (themselves) in 26
 27 nonsense. (This is the real point of *Tractatus* 6.53.) That is to say: Kuhn, like 27
 28 Wittgenstein, when the philosophical stakes are highest, *engages our temptation* 28
 29 to mire ourselves in nonsense. He doesn’t shy away from it.⁸ Kuhn wants one not 29
 30 to be afraid even of speaking nonsense, for the sake of better understanding the 30
 31 nature of science; but he urges that one had better be aware of just what one is 31
 32 doing at every stage. One can see that right-minded urge throughout his writing. 32

33 Let us go further in exploring this parallel with Wittgenstein, who felt that to 33
 34 reach clarity, to cure ourselves, to take part in an effective philosophical therapy, 34
 35 _____ 35

36 _____ 36
 37 8 At least, this is true of Kuhn in *SSR* (and not just in the examples I am writing on 37
 38 here. I think one could run a similar argument, for instance, on Kuhn’s intriguing picture (see 38
 39 especially Section II of *SSR*) of pre-paradigmatic scientists as undoubtedly scientists, even 39
 40 though the product of their labours was somehow less than science). Mostly regrettably, 40
 41 though quite understandably, Kuhn does later become shier of speaking nonsense: having 41
 42 seen the horrendous misunderstandings he was subject to at the hands of his ‘foes’ and ‘fans’ 42
 43 alike, and having in particular been calumniated by his philosophical ‘foes’ with talking trash. 43
 44 Kuhn tried to avoid being so misunderstood and calumniated again, and so backed away from 44
 some of the richest (and also, admittedly, riskiest) moments in his oeuvre. 44

1 it was necessary to go through the crucible, the test of investigating one's own 1
 2 variegated inclinations to speak nonsense (e.g. to feel that there is something 2
 3 right in metaphysical Realism, and/or in Kantianism, and/or in Idealism, etc.). 3
 4 Wittgenstein pursued this strategy in radically different ways – his *tactics* in the 4
 5 *Tractatus* bear little resemblance to those employed in *Philosophical Investigations* 5
 6 – but the overall strategy, the overarching aim, was the same throughout.⁹ That 6
 7 aim was to get the reader to overcome metaphysical predilections by means of 7
 8 enabling the reader to see just what those predilections are (and how radically 8
 9 unclear they are). 9

10 In the *Tractatus* for instance, as I hope the reader will have spotted in the 10
 11 epigraph to this Section, Wittgenstein offers the conception of a 'network' of 11
 12 scientific concepts and of a set of 'axioms' that, together, might very roughly be 12
 13 seen as prefiguring embryonically the concept of a 'paradigm' that Kuhn famously 13
 14 gave us. This is one of the key final stages in teaching differences that the early 14
 15 Wittgenstein offers the reader on the journey up the ladder. I think that Kuhn, in 15
 16 terrain where it is very hard to say anything useful – in the vicinity of fundamental 16
 17 conceptual change in science – is doing what Wittgenstein did in similarly difficult 17
 18 terrain, namely helping us to have a clearer view by taking a *necessary journey* 18
 19 *through nonsense*. We may want to say that after a revolution scientists are 19
 20 responding to a different world. If we do say that, we will be saying something 20
 21 very strange indeed. However, understanding why we want to say it, and what the 21
 22 consequences of saying it are, may at least give us some insight into what is going 22
 23 on in, for example, the Chemical Revolution – at *least* in the historiography etc. of 23
 24 the Chemical Revolution.¹⁰ 24

25 Let us move on to another key moment where the 'world changes' idea 25
 26 rears its head, and see if the same considerations can apply. In *SSR*, on page 118, 26
 27 we find the following: 27

28
 29 [A]s a result of discovering oxygen, Lavoisier saw nature differently. And in 29
 30 the absence of some recourse to that hypothetical fixed nature that he 'saw 30
 31 31

32 32

33 9 Detailed justification for this claim can be found in Cray and Read (2000), 33
 34 especially in the Introduction. See also my paper in my and Lavery's (2011). 34

35 10 For here is an important point: Kuhn came later to doubt that the 'gestalt-switch' 35
 36 metaphor for scientific change applied very directly to the scientists themselves, but he 36
 37 never gave up the thought that it applies to the (good) historian of science, one willing to 37
 38 work to find (what McGilchrist calls – as in the epigraph that opens Part 1) the necessary 38
 39 *distance* from which to see the worldview of previous scientists. The scales can fall from 39
 40 one's eyes, almost literally, when one suddenly gets (e.g., Kuhn's favourite example) what 40
 41 strange kind of physicist Aristotle might have been, if he was not a very bad or stupid 41
 42 physicist. Insofar as our interest is in our own understanding of fundamental scientific 42
 43 change, this reflexive understanding of how it is like seeing a different world remains of 43
 44 great value, even if it risks misleading us somewhat as to the actual experience the scientists 44
 44 of the time had. 44

1 differently', the principle of economy *will urge us to say* that after discovering 1
 2 oxygen *Lavoisier* worked in a different world (Emphases added). 2
 3 3
 4 Once again, what we feel an *urge* to say is not simply something we should say, 4
 5 as though it were unproblematic and simply true. Kuhn is drawing attention to the 5
 6 potentially nonsensical nature of his own urgings, just as much as he is drawing 6
 7 attention to the uselessness (if one wants to avoid misunderstanding how science 7
 8 actually works) of metaphysical realist desires to speak of the fixed nature that is 8
 9 there throughout all of scientific work. And so, we move to the most famous and 9
 10 tricky passages of them all. 10
 11 11
 12 Is there *any legitimate sense* in which we can say that [Galileo and Aristotle, 12
 13 Lavoisier and Priestley] pursued their research in different worlds? (*SSR*: 120, 13
 14 Emphasis added). 14
 15 15
 16 Hardly a ringing claim: this *question's* phrasing signals explicit awareness that 16
 17 saying so would be odd indeed. In other words, Kuhn is agreeing with us that 17
 18 to think that we should resist using the expression, 'different worlds', is quite 18
 19 reasonable. He goes on, however, to argue that such resistance has led us into a 19
 20 dead end in the philosophy of science, and indeed in a number of related fields. He 20
 21 mentions (on page 121) also 'psychology [the gestalt school], linguistics [Whorf], 21
 22 and even art history [Gombrich].' We may have to risk using apparently extreme 22
 23 phrases, nonsensical sentences, if we are to avoid the aridity and irrelevance of 23
 24 most existing thought about science. In order to accomplish the modest task of 24
 25 putting ourselves in a better position to see the natural sciences as they are and 25
 26 were, we may have (self-awarely) to say some immodest-sounding things. How 26
 27 then does Kuhn answer his own question? 27
 28 28
 29 I am ... *acutely aware of the difficulties created* by saying that when Aristotle 29
 30 and Galileo looked at swinging stones, the first saw constrained fall, the second a 30
 31 pendulum. *The same difficulties* are presented in an *even more fundamental form* 31
 32 by the opening sentences of this [S]ection: though the world does not change 32
 33 with a change of paradigm, the scientist afterward works in a different world. 33
 34 Nevertheless, I am convinced that we must *learn to make sense of* statements 34
 35 that at least *resemble* these. (*SSR*: 121, Emphases added) 35
 36 36
 37 Kuhn is aware of the trouble one can court, the absurdities of idealism for instance, 37
 38 when one talks this way. Nevertheless, he urges one to take the risk. Specifically, he 38
 39 suggests that we ought to (work to) find a sense for these words, or at least words 39
 40 somewhat like them. We ought to learn how to make sense of these words, words 40
 41 that as they stand *do not make sense*. What could be clearer? Kuhn is deliberately 41
 42 speaking nonsense here, when he makes paradoxical statements such as that the 42
 43 scientist works in a different world after a paradigm-shift, even though the world 43
 44 44

1 has (of *course*) not changed. He cannot be accused of *lapsing* into nonsense. He
2 quite *deliberately* speaks it.¹¹

3 One way of getting Kuhn out of this ‘predicament’ that he has *voluntarily*
4 entered into would perhaps be favoured by Hoyningen-Huene (1993) and others
5 who read Kuhn (as he himself perhaps became increasingly inclined to do) through
6 Kantian spectacles: namely, to find a way of apparently making sense of Kuhn’s
7 strangest statements without having to alter in any significant way our traditional
8 (‘received’) image of science. For example, we might read the crucial sentence
9 above as follows: ‘Though the *noumenal* world does not change with a change
10 of paradigm, the scientist afterward works in a different *phenomenal* world.’ This
11 quasi-Kantian ‘disambiguation’ of ‘world’ perhaps cleans things up somewhat.¹²

12 This move is therefore helpful, to a degree. But we have already seen
13 indications that Kuhn wasn’t keen to speak of ‘the noumenal world’ at all, for good
14 post-Kantian philosophical reasons: primarily, that speaking of ‘the noumenal’
15 makes it sound like we are not in nonsense, not in paradox, any more; yet surely
16 *we still are*. How, for instance, can there be any such thing as speaking of the
17 unspeakable, the unsayable? Kuhn doesn’t use the quasi-Kantian formulation that
18 I have suggested a ‘sympathetic’ reader like Hoyningen-Huene would perhaps
19 urge on us. Kuhn puts down a bald, seemingly *absurd* sentence. He then urges that,
20 if we want to find an alternative to the epistemological views which have led to a
21 crisis in Logical Empiricism, in falsificationism etc., then we should attempt over
22 time to make some sense out of that sentence (or to put some sense into it, even?).

23 Wittgenstein’s methods, his tactics, would of course look rather different. He
24 would highlight what we can learn from the way in which what we want or even
25 ‘need’ to say dissolves on us. Kuhn looks to find, over time, a less paradoxical
26 way of saying what he wants to say; Wittgenstein would tend to make it more
27 paradoxical, more *patently nonsensical*. But this difference in style and method,
28 while not unimportant, does not necessarily connote a signal difference in overall
29 strategy, or philosophical aim.¹³ Like Wittgenstein, Kuhn wants to teach us
30 differences, especially the deep difference between a puzzle-solving move and

31

32

33 11 In this regard, Kuhn is like Heidegger as well as Wittgenstein. Carnap notoriously
34 criticises Heidegger for falling into metaphysical nonsense when he (Heidegger) speaks
35 of ‘the nothing itself noth-ing’. But Carnap’s criticism falls flat in part just because it is
36 hardly as if Heidegger does not know that this (speaking nonsense) is precisely what he is –
37 deliberately – doing. At the end of his life, a more sophisticated Carnap was a great admirer
38 of Kuhn’s book. Had he perhaps rethought somewhat his own, troublesome attitude to the
39 employment of nonsense in philosophy?

40 12 Or perhaps it merely gets us deeper into nonsense, through appearing to provide
41 the form of a straightforward solution to our difficulties?

42 13 The reader who finds this remark implausible is directed once more to the close
43 of Kuhn’s ‘Reflections on my critics’, where his use of the idea of us being ill (when in
44 ‘crisis’), and needing treatment (e.g. through ‘extraordinary science’ of the kind practiced
45 by Copernicus, Hertz, or Einstein), is strikingly similar to Wittgenstein’s.

1 the full gravity of a major conceptual change, a difference which he thinks the 1
 2 theoreticians of and popularisers of science more or less systematically efface. So 2
 3 again, I think we can see Kuhn hereabouts as a kind of therapeutic thinker, a kind 3
 4 of Wittgenstein of the sciences. 4

5 I hope that the above is already enough to show that even Kuhn's apparently 5
 6 most troubling writing is actually extraordinarily careful and self-aware, and 6
 7 does not support outrageous theories or theses (which his 'foes' and 'fans' alike 7
 8 have tended to attribute to him), and is at least reasonably compatible with how 8
 9 Wittgenstein might approach the philosophy of the sciences. Much as Wittgenstein 9
 10 traffics in nonsense in some of what he says for instance about 'the woodsellors',¹⁴ 10
 11 so Kuhn traffics in nonsense in what he says about Aristotle and co. He ought to be 11
 12 praised for this, not buried for it. The way to greater philosophical enlightenment 12
 13 lies in understanding what we say and why we say it, even when it feels 13
 14 uncomfortable, and not in banning us from saying certain things. 14

15 Let us look now for comparative purposes at a particularly salient discussion of 15
 16 Wittgenstein's, in looking at what is happening when one tries to get enlightenment 16
 17 about one's concepts, or the concepts of others who may be separated from us 17
 18 by a conceptual gulf (e.g. by a scientific revolution). Although I have urged in 18
 19 this Section that Kuhn is not the metaphysical relativist he is often taken to be, it 19
 20 remains the case that Kuhn can and does intelligibly hold onto something modest 20
 21 and necessary (and even meaningful!) which one could perhaps (if one wished to) 21
 22 call conceptual relativism, or better, conceptual relativity. 'Conceptual relativity' 22
 23 would involve bringing out the deep difference (though *not* of course an absolute 23
 24 gulf of incommunicability) between (say) phlogistic and modern chemistry. We 24
 25 can see better, I think, how this can be present (and correct) in Kuhn's philosophy 25
 26 when we see it in Wittgenstein's philosophy, in the conceivability (and actuality) 26
 27 of a sense of 'concepts' by means of which it is intelligible to speak of different 27
 28 concepts – and thus of 'partial communication' – without falling into semantic 28
 29 nonsense and/or self-refutation. The most crucial passage of all on this in 29
 30 Wittgenstein himself, runs, in *PI*, as follows:¹⁵ 30

31 31
 32 I am not saying: if such-and-such facts of nature were different people 32
 33 would have different concepts (in the sense of a hypothesis). But: if anyone 33
 34 believes that certain concepts are absolutely the correct ones, and that having 34
 35 different ones would mean not realizing something that we realize – then let 35
 36 him imagine certain very general facts of nature to be different from what we 36
 37 are used to, and the formation of concepts different from the usual ones will 37
 38 become intelligible to him. 38

39 39
 40 40
 41 41

42 14 See Cerbone's and Crary's pieces in Crary and Read (2000) for discussion. 42

43 15 In this paragraph and the one that follows, I draw on (and adapt) passages from 43
 44 Read (2002a). 44

1 Compare a concept with a style of painting. For is even our style of painting 1
2 arbitrary? Can we choose one at pleasure? (The Egyptian, for instance.) (*PI* Part 2
3 II: 230, Emphasis added). 3
4 4 4
5 ‘Our’ style of painting or writing (e.g. poetry), with its distinctive kinds of effects 5
6 and ‘aspects’ is not arbitrary, and no more is our style of science, our scientific 6
7 sensibility. Kuhn can be seen, I am suggesting, as intelligibly pointing to how 7
8 different aspects have been seen, have been acted upon and have been realised at 8
9 different points in the history of different fields. He is concerned that we will do 9
10 bad history and philosophy of science *if we take our concepts to be ‘absolutely the* 10
11 *correct ones’*,¹⁶ or indeed even if we more ‘modestly’ take the concepts of a future 11
12 ‘finished science’ to be ‘absolutely the correct ones.’ 12
13 Kuhn is contesting *the very idea* of some set of concepts being absolutely 13
14 the correct ones, whether or not we ourselves claim to be currently in possession 14
15 of them. In a nutshell, Kuhn is interested in *real* cases; those cases where the 15
16 formation of concepts different from ours has happened, where those concepts 16
17 have ‘been the case.’¹⁷ 17
18 If the connection I have drawn here is right, then Kuhn is certainly, 18
19 among other things, enriching Wittgenstein’s diet of examples by discussing in 19
20 detail real examples from the sciences, of what Wittgenstein has already indicated 20
21 an interest in, by means mostly of the (mostly) fictional examples which play such 21
22 an important role in his later work. 22
23 We might even compare here the important paper, ‘*A Function for* 23
24 *Thought Experiments*’, in Kuhn (1977). As I read that paper, Kuhn is trying to get 24
25 rid of a prejudice: a prejudice existing when we refuse to look, but merely think. 25
26 The prejudice that thought experiments cannot possibly be part of science, and 26
27 work, unless they are *real* (physical, etc.) experiments, not *thought* experiments. 27
28 Thought experiments involve working upon one’s assumptions, etc. In this respect, 28
29 there *is* a parallel (though one I cannot investigate further in the present context) to 29
30 be drawn with Wittgenstein’s ‘thought-experiments’. 30
31 And so, in sum: I think that there is a fair case for calling Kuhn something 31
32 like ‘a Wittgenstein of (the philosophy of) the sciences’.¹⁸ In the remainder of 32
33 Part 1 of this book, I will attempt to develop further my reading of Kuhn in this 33
34 light, deepening the reading presented previously in my book, *Kuhn*, and focusing 34
35 35 35
36 36 36
37 16 Again, a danger should be borne in mind here: One should not start to think of 37
38 the ‘different concepts’ to which Wittgenstein refers as potentially forming an ontology 38
39 ‘wholly alien’ to ours. To do so risks falling straight back into an over-strong semantic 39
40 relativism, justly criticised (though not justly found in Kuhn) by e.g., Davidson. (See David 40
41 Cerbonne’s work for discussion) 40
42 17 This is one point at which Kuhn’s and Foucault’s methodologies and aims are 41
43 closely-aligned. 42
44 18 And I think that that case largely survives the (highly pertinent) worries expressed 43
45 by Angus Ross, in his reply to me on this, in *UEA Papers in Philosophy*. 44

1 primarily upon the key area already touched upon here: how to understand what 1
 2 *incommensurability* actually is. This is key to seeing how Kuhn's philosophy of 2
 3 (natural) science can be viable; and thus key to making progress on what will be 3
 4 the central issue of this book: whether the 'human sciences' are in any meaningful 4
 5 sense – in something like the sense present in Kuhn's rendition of the (natural) 5
 6 sciences – *sciences*. 6
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1.2 Kuhn and Incommensurability: An Interpretation

One can deceive a person for the truth's sake, and (to recall old Socrates) one can deceive a person into the truth. Indeed it is only by this means, i.e., by deceiving him, that it is possible to bring into the truth one who is in an illusion. Whoever rejects this opinion betrays the fact that he is not over-well versed in dialectics, and that is precisely what is especially needed when operating in this field. For there is an immense difference, a dialectical difference, between these two cases: [a] the case of the man who is ignorant and is to have a piece of knowledge imparted to him, so that he is like an empty vessel which is to be filled, or a blank sheet of paper upon which something is to be written; and [b] the case of a man who is under an illusion and must first be delivered from that ... Assuming then that a person is the victim of an illusion, and that in order to communicate the truth to him the first task, rightly understood, is to remove the illusion – if I do not begin by deceiving him, I must begin with direct communication. But direct communication presupposes that the receiver's ability to receive is undisturbed. But here such is not the case; an illusion stands in the way ... What then does it mean 'to deceive?' It means that one does not begin directly with the matter one wants to communicate, but begins by accepting the other man's illusion as good money.

Soren Kierkegaard, *The Point of View for My Work as an Author*, 39–41.

One must start out with error and convert it into truth.

That is, one must first reveal the sources of error, otherwise hearing the truth won't do any good. The truth cannot force its way in when something else is occupying its place.

To convince someone of the truth it is not enough to state it, but rather one must find the *path* from error to truth.

(Ludwig Wittgenstein, 'Remarks on Frazer's *Golden Bough*', 119 in *Philosophical Occasions*)

In the previous Section, I made the best possible case – a strong case, I believe – for considering Kuhn 'a Wittgenstein of the sciences,' and I rebutted the apparent difficulties raised for that case by the apparently most Idealist/Relativist moments in Kuhn. But: In my more pessimistic moments,¹ I sometimes see Thomas Kuhn as stranded half way between the mainstream American philosophy to which he wanted to belong but into which he doesn't

¹ Moments largely unexplored in Sharrock and Read (2002), except in the Conclusion to that book.

1 quite fit and the more resolute and consistent Wittgensteinian dissolutionism 1
 2 to which he is often close. In other words: I worry, as others have worried, that 2
 3 perhaps the / my ‘Wittgensteinian’ interpretation of Kuhn is *too charitable*. 3

4 That worry, I explore here. I will eventually conclude, as 1.1 argued, that it is 4
 5 only (I suspect) on an inflated version of incommensurability, one which it looks 5
 6 like Kuhn is putting forward only when it looks like he is chiefly in debate with 6
 7 mainstream American philosophy,² that the widespread version of Kuhn considered 7
 8 in the present Section seems salient. The deflated / deflationary (Wittgensteinian) 8
 9 version of incommensurability presented in Sections (1.3,1.4) *is*, I would argue, 9
 10 closer to Kuhn’s heart, and in more optimistic moments, I think that *this* reading 10
 11 of Kuhn quite clearly embodies his considered view. 11

12 The purpose of this Section is to *inhabit* for a while the most popular 12
 13 (and problematic) and worryingly-widespread interpretation of Kuhn on 13
 14 incommensurability. Only thus may we find the path from error to truth, hereabouts; 14
 15 only thus may we deal with what is not an ignorance of fact, but the product of 15
 16 philosophical delusion. For what I aim to do here is *precisely what Kuhn (and* 16
 17 *likewise the therapeutic interpretation of Wittgenstein) calls for:* to understand 17
 18 ‘from the inside’ this influential interpretation of Kuhnian incommensurability, 18
 19 so as to *really understand the attractions of it* as an interpretation (and the 19
 20 disastrousness, ultimately, of it as a ‘position’).³ I aim to be as charitable as 20
 21 possible toward this reading of Kuhn (as hoist on his own petard, as self-refuting), 21
 22 and to learn in the process as much as we possibly can from it. I aim, that is, to 22
 23 accept provisionally ‘as good money’ the interpretation of Kuhn that has been 23
 24 most popular, to date. 24

25 25
 26 26

27 **Kuhn Applied to Kuhn** 27 28 28

29 Kuhn wants to be able to understand scientific change ‘from the inside’, to be 29
 30 able to understand the past as (what) it was, not only as it is as seen from now. 30
 31 He thinks this is the best – even the most accurate – way to do it. He thinks that 31
 32 if we look back ‘Whiggishly’, giving an account of history as if it had always 32
 33 been teleologically aiming toward the state of the present, then, whether our 33
 34 subject-matter is social history or the history of science itself, we’ll miss out 34
 35 on understanding the subject(s) in question. We ought not in effect to guarantee 35
 36 that the scientists of the past look like dull or misguided versions of our own 36
 37 scientists, aiming at the same truths but inadequately so. We ought rather to allow 37
 38 38

39 _____ 39
 40 2 Ironically, Kuhn’s great misfortune was to have got hold of the attention of the 40
 41 mainstream of American philosophy, including some very major individual figures. If that 41
 42 hadn’t have happened, it is likely that ‘inflated’ conceptions of incommensurability would 42
 43 not have arisen much in the first place. 43

44 3 Only when one has truly understood something’s attractions/temptations can one 43
 44 potentially lay them to rest. This is a central insight of Wittgenstein’s, as of Kierkegaard’s. 44

1 how very different the scientific worldview of (say) Aristotle was from our own, 1
 2 in order to be able to see, from the right distance, how it can (could) after all hang 2
 3 together, and *be* science of a kind, constitute a way of seeing the world and a way 3
 4 of practicing science in it, initial appearances of its disastrous failure to be and to 4
 5 allow so notwithstanding. 5

6 However, this ‘anti-Whiggish’ approach of Kuhn’s often results in him being 6
 7 taken to be a Relativist. In particular, he is attacked, even ridiculed, within 7
 8 mainstream philosophy of science for being a hard-line relativist *about truth*, for 8
 9 (supposedly) thinking that what is true for us cannot literally be said to have been 9
 10 true for Ptolemy, for Copernicus, and even for Newton. 10

11 Kuhn is *not* adequately characterised as any kind of hard-line Relativist about 11
 12 Truth. (He might be legitimately interpretable, as I will explain in 1.3, as (in a 12
 13 certain sense) a *very modest* ‘relativist’ about truth, and likewise about rationality, 13
 14 about what it is rational to think and do at different stages in the development of a 14
 15 science.) But: this still needs some further showing ... 15

16 The question will be put to any (alleged) relativist: how can they put forward 16
 17 their own ideas as true, as rational, as deserving of attention, when they themselves 17
 18 teach that all ideas are true only in *context*? Why should we believe Kuhn when 18
 19 he makes claims on behalf of the truth of the doctrine that ideas are true only in 19
 20 context? How can he argue for the *superiority* of *his* view over the views of others 20
 21 with a straight face? Wouldn’t e.g. the logical positivists be right *in their context*? 21

22 This is a cheap and unrewarding way to hang the ‘relativism’ label on Kuhn. 22
 23 Kuhn is not, as I shall show, a ‘serious Relativist’ about Truth, though he is 23
 24 certainly no classical Correspondence realist. Thus he does *not* have to say that his 24
 25 ‘theory’ cannot be generally true because it is a product of its times.⁴ Kuhn may 25
 26 more plausibly *seem* to be relativistic about the *meaning* of theories in different 26
 27 paradigms; and *thus* about (the meaning of) ‘scientific progress.’ Kuhn certainly 27
 28 sometimes sounds as if he thinks that paradigms are mutually impenetrable (and 28
 29 thus that one cannot prove from an external point of view the superiority of one 29
 30 over another). Does Kuhn really think this? 30

31 Well; *what would be more natural, for a philosopher, to try to figure this out,* 31
 32 *than by looking at how Kuhn himself sounds and at how his emergence looks, from* 32
 33 *a Kuhnian point of view?* 33

34 It is hard to overestimate how much can be learnt and appreciated (about 34
 35 the quality and nature of Kuhn’s contribution to the philosophy of science) by 35
 36 playing close (and, ultimately, reflexive ...) attention to the question of ‘Kuhn 36
 37 37

38 _____ 38
 39 4 Does Kuhn’s own claim to knowledge pretend to a ‘trans-paradigmatic’ status? 39
 40 Well, before being worried by this question, which may be another way of too crudely 40
 41 setting Kuhn up for self-refutation, one should be careful here not to assume that Kuhn’s 41
 42 own view can rightly be characterized as (the basis of) a paradigm. I explore this further 42
 43 below, especially when I consider Kuhn’s claims self-applied in relation to the Philosophy 43
 44 of Science itself. In very brief: arguably Philosophy of Science is not (and is not strictly 44
 44 continuous with) Science. 44

1 applied to Kuhn'.⁵ The reflexive question for Kuhn might give rise to a form of 1
 2 Relativism and an attendant self-refutation and is therefore potentially serious. 2
 3 Kuhn's very ability to describe paradigm-shift might then seem to undermine 3
 4 the 'thesis' of incommensurability. Kuhn doesn't need to explicitly be a radical 4
 5 Relativist about Truth for there to be a key sense in which his alleged picture 5
 6 of the 'different worlds' in which scientists live seems like a kind of relativism 6
 7 – what is sometimes called his 'conceptual relativism', or 'relativism about 7
 8 meaning'. If people live in different worlds, then doesn't Kuhn himself do so? 8
 9 Don't Kuhn's own ideas undercut themselves? *What happens if someone tries to* 9
 10 *take incommensurability about meaning generally, and seriously, and does so,* 10
 11 *as consistency might seem to demand, even with regard to what they themselves* 11
 12 *are saying/doing?* 12

13 The history of both the production and the reception of *SSR* does go some 13
 14 significant way toward *exemplifying* his theses. Arthur Danto has said ⁶ that 14
 15 that the special feature of *SSR* is that it can account for its own production and 15
 16 effects, including the resistance to it, in a manner that no previous philosophical 16
 17 picture of science could do. For example, all Karl Popper can say concerning the 17
 18 resistance to his own theory is that many philosophers and others are too scared to 18
 19 be bold thinkers, etc. – but this is essentially an external fact to Popper's picture, 19
 20 a psychological happenstance; whereas it is internal to Kuhn's account that there 20
 21 will be a great effort to maintain the prior paradigm in the face of a revolutionary 21
 22 incursion. This effort will even extend to the revolutionaries themselves. Thus, 22
 23 Kuhn emphasises not only revolutionaries' frequent reluctance to face the broader 23
 24 and ultimate consequences of their own innovations, but even to recognise that 24
 25 they truly *were* major innovations, and (moreover) to making those innovations in 25
 26 the first place. Kuhn finds Planck, for instance, to have been a much more reluctant 26
 27 revolutionary than has traditionally been thought. Kuhn quotes with apparent 27
 28 approval Planck's own telling remark that scientists rarely manage to convert to a 28
 29 new paradigm: a radically new scientific truth does not triumph by convincing its 29
 30 opponents, but because they eventually die.⁷ 30

31 Kuhn emphasises the important role sometimes played by people who come 31
 32 into a discipline from outside (as he himself did – his training was as a physicist, 32
 33 33

34 _____ 34
 35 5 Though the *nature* of the learning, as I shall explain, shall in some respects by the 35
 36 opposite of what one expected. (And cf. also p.80 of Flyvberg's (2001), for some important 36
 37 hints as to why.) 37

38 6 In talks and in personal conversation. 38

39 7 This citation occurs in *SSR* on page 151. It might be asked at this point: if people 39
 40 are generally not 'converted', but just die off, doesn't that mean that scientific revolutions 40
 41 must generally see two or more schools co-existing, at least for a while, in a supposedly 41
 42 paradigmatic discipline? Well, yes. But this doesn't count against Kuhn; he is explicitly 42
 43 prepared to see allow for such situations. He explicitly allows that it is not uncommon in 43
 44 the course of scientific revolutions for the discipline's appearance to revert temporarily to 44
 44 that of its pre-paradigmatic days. 44

1 he then became a historian of science, and he was most influential in philosophy 1
 2 and methodology of science). Kuhn's idea here is that scientific revolution quite 2
 3 often occurs in cases which work out (of course, most such cases *don't* work out, 3
 4 and the results are merely pseudo-science, crankery, etc.) by means of people 4
 5 coming from outside the discipline who are not therefore so 'constrained' by the 5
 6 disciplinary matrix and who therefore have the capacity to think in fresher ways. 6
 7 Those ways often include the ways that were current in the discipline from which 7
 8 they have come. 8

9 It is important to be clear that this is very far from a methodological 9
 10 recommendation, in Kuhn. It is an observation based upon the reality of the 10
 11 development of science – but it could not possibly be a general recommendation, 11
 12 because *most* such importations of analogical models from elsewhere are disastrous 12
 13 / useless. And, normally, the best recommendation for what to do is: just do more 13
 14 normal science. (This is of course already assuming that the area in question *is* a 14
 15 science. We will look at this issue in Part 2). But one has to allow that sometimes 15
 16 revolution must occur, when the paradigm becomes 'monstrous' (Copernicus's 16
 17 word). And it is just a fact that revolutions have been helped by outsiders to the 17
 18 discipline in question, quite often. But that is all: there is no implication *at all* that 18
 19 (for example) it would necessarily be helpful to the project of 'making economics 19
 20 more scientific' to import into it (say) mathematicians with new ideas. 20

21 So then, following up this thought of Danto's that we have just mentioned: 21
 22 think of Kuhn compared to the philosophers of the Vienna Circle on science; in 22
 23 particular to Carl Hempel. Hempel's attempt at producing a Confirmational logic 23
 24 for science led to the desperate anomalies of his and Goodman's paradoxes – 24
 25 but his own account of science has nothing to say about why any of this should 25
 26 have happened. Whereas Kuhn can point to the state of 'crisis' that philosophers 26
 27 of science were gradually, reluctantly realising their 'discipline' was in; and to 27
 28 the revolution that 'reluctantly' ensued when he radically displaced (*not* refuted/ 28
 29 falsified!) the orthodox wisdom on the relevance of the history of science for the 29
 30 philosophy of science, on the dubious utility of the context of justification *vs.* 30
 31 context of discovery principle, and so on. (In this regard, Kuhn is like Freud, 31
 32 whose theory predicted that it itself would give rise to critical responses – unlike 32
 33 in the case of Hempel or Popper, this fact was *internal* to Freud's theory.) 33

34 Kuhn can explain his own emergence and the resistance to his views, including 34
 35 even his own resistance. A revolution in the philosophy of science should be 35
 36 expected only at a time when there is some perception emerging of anomaly or 36
 37 monstrosity; one should expect its fomentor to have his/her feet very much in the 37
 38 38

39 _____ 39
 40 8 We should note that recent research (see especially work by Thomas Uebel; cf. also 40
 41 Alexander Bird) is indicating that Rudolf Carnap, at least in his final years, was significantly 41
 42 less far from Kuhn than was the general Positivist line. However, as I indicated in the 42
 43 previous Section, this in my view likely to be a specific indication of the extent to which 43
 44 Carnap's views moved away from where he started, even to the point of being actually 44
 44 slightly influenced by Kuhn himself. 44

1 old tradition, and not even to realise at first the revolutionary effects of his/her 1
 2 own views; there should be communication difficulties of a major sort between the 2
 3 newly emergent paradigm and defenders of the old verities, and so on. 3

4 On this last point, of course, Kuhn made some capital from the problems which 4
 5 both he and the Falsificationists had in debating with each other – a point that infuriated 5
 6 his rationalist audience.⁹ Kuhn endeavoured to present the ‘cross-purposes which he 6
 7 discerned between himself and his critics as ‘confirming evidence’ for his picture of 7
 8 partial communication, the talking-through-each-other that characterises discourse 8
 9 between incommensurable points of view’.¹⁰ It is important not to be deceived by the 9
 10 possible availability of a ‘moderate’ reading of these phrases and remarks. The term 10
 11 ‘partial communication’ might appear to imply only a careful equanimity concerning 11
 12 the allegedly-limited degree to which ‘complete understanding’ between humans is 12
 13 ever possible. Kuhn goes on to say that ‘The inevitable result [of paradigm-shift] is 13
 14 what we must call, though the term is not quite right, a misunderstanding between the 14
 15 two competing schools’ (SSR: 149). The term is ‘not quite right’ because in everyday 15
 16 language a ‘misunderstanding’ is correctable, however, in this case it is *not*; it is 16
 17 inevitable, intrinsically unavoidable. ‘Communication across the revolutionary divide 17
 18 is *inevitably* partial.’ (SSR: 149, emphasis added). This is a qualitatively different 18
 19 situation from everyday human situations. Kuhn is apparently implying that there is 19
 20 a signal and powerful form of ‘incommensurability’ here. Even when pre- and post- 20
 21 paradigm claims are made using the same words, there is no possibility of normal 21
 22 mutual understanding, *for those words must inevitably mean something different in* 22
 23 *one mouth/text than they do in another.*¹¹ 23

24 Kuhn’s view of scientific development can be *reflexively* applied – we can 24
 25 productively *see* the philosophy of science *as* experiencing something like a 25
 26 paradigm shift. As Martin Hollis used to put it: Kuhn’s thesis is revolutionary. 26
 27 27

28 9 It is notable that Popper later conceded some ground to Kuhn here, possibly in 28
 29 part to draw the sting from the way the failure in the debate between them was grist to 29
 30 Kuhn’s mill. Thus Popper (1994:63) admits that, after Kuhn’s *Reflections on my critics* 30
 31 and after the Post-Script to SSR (2nd ed.), he realized that he had been attacking only 31
 32 views attributed to Kuhn, not Kuhn’s own, when he castigated ‘normal science’ etc. 32
 33 He nevertheless maintained that the view he was attacking, including the ‘myth of the 33
 34 framework’ itself, was an influential view. 34

35 10 Lakatos and Musgrave, (1970: 231-2). See also Kuhn’s remark: ‘Inevitably, the 35
 36 term “cross-purposes” better catches the nature of our discourse than “disagreement”.’ 36
 37 (Is Kuhn entitled to these assertions? How does he magisterially know the nature of this 37
 38 dispute that he is a part of? That’s the seeming-problem: that Kuhn is a part of history but 38
 39 claims to be able to see it too, to be able to reconstruct a part of it that *ex hypothesi* he is 39
 40 alien to. We get to this crunch issue shortly.) 40

41 11 For exemplification, see Kuhn’s discussion of the shift from Newtonian to 41
 42 Einsteinian physics. In the second half of Sharrock and Read (2002), we suggest that there 42
 43 is a tenable moderate way to understand ‘partial communication’, provided one does not 43
 44 think that meaning – the product of meaningful use of words – is itself in principle what can 44
 45 only be partially communicated. 44

1 There are also key respects in which the ‘Kuhnian revolution’ does *not* support 1
 2 Kuhn’s own picture. But this ought perhaps not to overly surprise us – for whoever 2
 3 said that philosophy was a science, a science which has for some time been at a 3
 4 normal science stage of development? (Well, of course, many philosophers have 4
 5 in fact tried to say that; though their grounds for doing so are, I would claim, thin 5
 6 in the extreme).¹² 6

7 The respects in which Kuhn’s picture does not effectively apply to its own 7
 8 production and reception are respects which are quite comprehensible once we 8
 9 take fully into account that philosophy is not best regarded as a science, but 9
 10 rather as ‘pre-paradigmatic’ (to use Kuhn’s potentially-quite-misleading term).¹³ 10
 11 Kuhn’s subject matter is essentially those disciplines with (single) paradigms. And 11
 12 philosophy (even of science) is not such a discipline. (Furthermore, as will be 12
 13 tentatively suggested in Part 2, nor are ‘the human sciences’, at their best.) 13

14 But Kuhn *himself*, as we shall see, does seem keen to self-apply his work. 14
 15 Where the real and immediate problems for Kuhn can seem to begin are if we 15
 16 think about applying his more radical, perhaps relativistic, philosophical claims to 16
 17 his own historical accounts and examples drawn from the sciences, and the history 17
 18 of the *philosophy* of science. 18

19 This is also why I said above that it is hard to overestimate the utility of 19
 20 thinking Kuhn applied to Kuhn. Here is the essential difficulty: If the defence 20
 21 of Kuhn offered in 1.1 above is rejected (or not considered) or found to be 21
 22 psychologically unavailing (that is, if one just can’t bring oneself, at the end of the 22
 23 day, to believe it), if what can appear to be Kuhn’s stronger ‘claims’ are correct, 23
 24 then pre – and post – revolutionary scientists live ‘in different worlds’ (*SSR*: 24
 25 121). The ‘incommensurability *thesis*’, if such it is, divides them. The previous 25
 26 paradigm becomes incomprehensible to them, even while they absorb parts of 26
 27 it into their new practices and textbooks (see *SSR*: 139), such that the revolution 27
 28 becomes ‘invisible’ (*SSR*: 136f.). 28

29 Now, it might be argued, there is no compelling reason to think that students of 29
 30 (the history of) science can effectively do something that the scientists themselves 30
 31 *cannot* (or if they can, then we just have some form of absolutism on our hands, 31
 32 anyway). At best, Kuhn *et al* may be good at doing something which scientists are 32
 33 not so good at doing; the grounds for attributing to them a skill which is cognitively 33
 34 *closed* to practising scientists are, by contrast, negligible. 34

35 Now, given that Kuhn (unlike, say, Feyerabend) insists firmly that one can 35
 36 *only* live in one world,¹⁴ that a change of paradigms is a definitive ‘conversion- 36
 37 37

38 12 For discussion, see the Interview, below, that rounds out this book. 38

39 13 For Kuhn’s most careful reappraisal of ‘pre-paradigms’, and of how what he is 39
 40 referring to here could be less misleadingly conveyed, see Lakatos and Musgrave (1970: 40
 41 272). In Sharrock and Read (2002), we suggest instead the term ‘disciplines without a 41
 42 paradigm’, and labour to lay stress on how there is no teleology implicit in this notion. 42

43 14 See Lakatos and Musgrave (1970: 232) and *SSR*: 111-128; and below. As 43
 44 previously mentioned above, it can seem at the moment of crisis as if one is living in two 44

1 experience', it follows directly that one cannot mix and match between different 1
 2 paradigms. But then surely, this seems directly to imply, the historian or philosopher 2
 3 of science *cannot understand* what came before a scientific revolution. But then 3
 4 how can that student –how can Kuhn – efficaciously describe the state of 'the 4
 5 world' according to the old scientists' beliefs before the revolution? The historian 5
 6 can't then, it seems, really know what it would have been like to have lived and 6
 7 practiced in the world of the pre-revolutionary scientist. 7

8 An irony results from the above; the historical accounts of revolutions, 8
 9 supposedly Kuhn's key examples seem, by the logic of his own argument, 9
 10 cognitively inaccessible to him. He cannot understand the 'exemplars' which 10
 11 ought to have been the basis of his theory. If his 'theory' is correct, then, it seems, 11
 12 he cannot point to any examples to confirm *that* it is correct! For the better Kuhn's 12
 13 historical descriptions, the less plausible becomes his general view. This might 13
 14 be taken to explain why Kuhn's examples in fact invariably *do* seem to fall some 14
 15 way short of what have been taken to be his stronger philosophic 'claims'. It may 15
 16 also possibly explain why Kuhn sometimes implied or even (in his later work) 16
 17 explicitly argued that in fact he didn't *absolutely require* examples to evidentially 17
 18 justify his claims, and that sometimes they could even be illustratively unhelpful 18
 19 or misleading: 19

20
 21 [O]ne can reach many of the central conclusions we drew with hardly a glance at 21
 22 the historical record itself.[M]any of the most central conclusions we drew from 22
 23 the historical record can be derived instead from first principles. Approaching 23
 24 them in that way reduces their apparent contingency, making them harder to 24
 25 dismiss as a product of muckraking investigations by those hostile to science. 25
 26 And the approach from principle yields, in addition, a very different view of 26
 27 what's at stake in the evaluative processes that have been taken to epitomize 27
 28 such concepts as reason, evidence, and truth. *Both these changes are clear gains.* 28
 29 (Kuhn, 2000: 112, italics added)¹⁵ 29
 30 30

31 I want to go further: It seems that the effectiveness of Kuhn's philosophy of 31
 32 science *contradicts* the effectiveness of his historical descriptions and examples, *if* 32
 33 that philosophy of science is rightly understood to involve a theory of 'meaning- 33
 34 incommensurabilism' as standardly understood.¹⁶ And the problem I have now laid 34
 35 out seems a pretty serious problem, which, can presumably be solved or mitigated 35

36
 37 _____ 37
 38 worlds; but this kind of schizophrenia just means that the paradigm is breaking up, and that 38
 39 one is at present barely able to 'live' (scientifically-speaking) at all. 39

40 15 Of course, there is a terrible risk in Kuhn's approach here of his undercutting 40
 41 exactly what he suggested in the justly-famous first sentence of SSR: "History, if viewed as 41
 42 a repository for more than anecdote or chronology, could produce a decisive transformation 42
 43 in the image of science by which we are now possessed." 42

43 16 This is essentially Davidson's famous objection to Kuhn. We shall come to 43
 44 Davidson shortly. 44

1 (if at all) only by adjusting our understanding of the ‘empirical (?) status’ of 1
 2 Kuhn’s ‘theory’. Let me here anticipate it. 2
 3 Kuhn has suggested a change of aspect, not made a set of (say) falsifiable 3
 4 claims.¹⁷ Kuhn is arguably giving us – can perhaps only coherently be giving us 4
 5 – as Feyerabend almost alone recognised, *not* a general historico-sociological 5
 6 theory of scientific development, but rather a critique of abstract and formalist 6
 7 philosophy of science, intertwined with some partial and provocative suggestions 7
 8 toward a genuine philosophy/methodology of the sciences, moving away from 8
 9 the fairly disastrous fully-abstract and anti-historical perspectives which he found 9
 10 dominating the scene when he began writing. Importantly for the present book, we 10
 11 can sum this up by saying that *Kuhn would be better thought of as a methodologist* 11
 12 *than as a philosophical theorist.* 12

13 However; we must also – in thinking seriously about the question of whether 13
 14 Kuhn can make sense of himself, and of whether he is caught up in the dilemmas 14
 15 and contradictions of Relativism – consider Donald Davidson’s (1974)¹⁸ 15
 16 famous attack on ‘Conceptual Relativism’.¹⁹ According to Davidson, there is a 16
 17 great difficulty for Kuhn, consequent upon what appears to be his ‘pluralised’ 17
 18 Kantianism.²⁰ Kuhn wants us to imagine radically different – ‘incommensurable – 18
 19 conceptual schemes *in science*;²¹ but he is *also* aware that we can only ourselves 19
 20 ever be in – and then we must be *in*, up to our necks, with reams of non-grounded 20
 21 assumptions and ways of acting – one particular conceptual scheme. 21

22 Kuhn does not explicitly tell us *how to deal with* the devastating self- 22
 23 contradiction he appears to face; he simply presents us with his (very fine) 23
 24 historical case studies. For inspiration on how to deal with the problem identified 24
 25 here, we might try looking to anthropology and (in particular) in the philosophy 25
 26 _____ 26

27 17 One hopes that, in this process, Kuhn himself is not ‘deforming’ the ordinary use 27
 28 of words (e.g. ‘(different) world’, ‘talking at cross-purposes’, ‘incomprehensible’) already 28
 29 made by scientists and laypeople. Though, perhaps, if we look closely at how Kuhn actually 29
 30 uses these words, we will in due course see more clearly the possibility of a less extreme 30
 31 incommensurabilism than that which he can appear to be proposing: see 1.3, below (and 31
 32 1.1, above). 32

33 18 Davidson’s paper carries further forward the (broadly-speaking) Pragmatic 33
 34 spirit and project of Quine’s *Two Dogmas of Empiricism* (albeit, like Quine, very much in 34
 35 an Analytic idiom). 35

36 19 And on the last ‘dogma’ of (Kantian) Empiricism -- the dogma that there are 36
 37 ‘conceptual schemes’ in terms of which we understand reality. Insofar as Davidson is 37
 38 attacking Kuhn, for ‘conceptual scheme’ try to read ‘paradigm’. 38

39 20 For an in-depth and fairly-convincing exposition of Kuhn as a Kantian, but 39
 40 one who believes there can be more than one phenomenal world (i.e. at least that one 40
 41 phenomenal world can succeed another, due to scientific revolution), see Hoyningen-Huene 41
 42 (1993), especially Chapter 3. 42

43 21 Here, he has been influenced also by the Sapir-Whorf hypothesis of Linguistic 43
 44 Relativity, of anthropologically determinable different conceptual schemes lying in 44
 44 languages. 44

1 of the social sciences. Kuhn himself compares his studies to enquiries requiring 1
 2 understanding alien ways of life. Perhaps Peter Winch's (1964) sympathetic but 2
 3 uncompromising critique of Evans-Pritchard shows a way forward. Winch takes 3
 4 seriously the extent to which one has to participate in an alien way of life in order 4
 5 to have a chance of fully understanding it – and emphasises that presupposing that 5
 6 one's own way of life is more soundly based in some absolute sense hinders, not 6
 7 helps, understanding an alien form of life. One has to know what it would be to 7
 8 take them seriously, to live them. And one cannot impose upon the 'aliens' one's 8
 9 *own* canons of even logical contradiction or coherence. 9

10 There are two potential problems in extrapolating Winch's method from 10
 11 here to Kuhn's case. Firstly, with regard to Kuhn, *if* we are to take some of the 11
 12 words and phrases he uses at apparent face-value – and ignore his qualifiers (for 12
 13 which, see again 1.1, above) – then we seemingly must think that the concept of 13
 14 incommensurability is stronger/deeper than anything in Winch.²² Secondly, there 14
 15 may be special difficulties attendant upon the fact that it is *science* we are dealing 15
 16 with here. There may be limits²³ to the extent to which one can understand alien 16
 17 *scientific* pictures. For one thing, one surely cannot attempt to live them seriously 17
 18 again; one's understanding of contemporary science, beyond which there is no 18
 19 further court of appeal, forbids that (this is what Kuhn calls 'irreversibility'). 19
 20 One just can't attempt to do experiments to produce phlogiston, for example. 20
 21 At least in the case of the sociology of religion or of the anthropology of alien 21
 22 cultures, one has live people to interact with, and possibly one can more easily 22
 23 imagine adopting their way of life and beliefs, providing one doesn't presuppose 23
 24 that their way of life is incompatible with (e.g.) scientific beliefs that one cannot 24
 25 oneself give up.²⁴ 25

26 I will return to the Winch-Kuhn analogy later and repeatedly, developing it in 26
 27 some detail in the early portion of Part 2. The problem for now, in essence, is this: 27
 28 *There appear to be significant limits to the extent to which paradigms from history* 28
 29 *can be alien and yet be scientific pictures at all.* This chimes in with the slightly 29
 30 peculiar fact that if one is impressed by Kuhn's clearest examples of scientific 30
 31 revolutions (if one doesn't conclude that there is no serious incommensurability 31
 32 or unintelligibility) one is very often left wondering whether the pre-revolutionary 32
 33 science actually was science in our modern sense *at all*. This difference is perhaps 33
 34 most marked in the case of the chemical revolution, but is intriguingly present 34
 35 also in Ptolemy-Copernicus case and even perhaps in the Newton-Einstein case. 35
 36 Compare, for instance, Arthur Koestler's analyses of the extent to which in the 36

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22 See 1.3 for the position I in fact take on this.

23 In the sense of Wittgenstein's *Tractatus*.

24 And even in the case of history, where there are no live people to interact with, there is still the difference between one's scientific world-view, which one cannot much if at all actually give up, and other kinds of beliefs or practices, which are perhaps never so definitively 'falsified' or superseded.

1 historiography of science we have systematically left out of account the huge non- 1
2 scientific elements of the thought of Tycho, Kepler, and Newton.²⁵ 2

3 Kuhn emphasises that the role of ‘external’ history is greater in the formation or 3
4 transformation of early ‘pre-paradigmatic’ science than in later (not just paradigm- 4
5 based but professionalised) science, where the development of the professional 5
6 apparatus, the intensification of the training and the demanding technical level of 6
7 the practice all ‘insulate’ the scientists against the external environment... To say 7
8 it again: Kuhn, seemingly wants us to imagine that we can understand radically 8
9 different conceptual schemes; but he is also quite aware that we can only ourselves 9
10 ever be in and understand for ourselves one particular conceptual scheme. One 10
11 really is *inside* one’s conceptual scheme. Thus, if Kuhn had really ushered in a 11
12 revolution in the philosophy of science, and if what I have said above is correct, 12
13 then it seems that one could not understand the philosophy of science that Kuhn 13
14 has superseded!²⁶ However, that at least *seems* false: it seems that, insofar as there 14
15 ever was anything to understand in the Positivists *etc.*, it is still accessible to us. 15

16 Let us not be too quick to maljudge Kuhn here. Because he might quite 16
17 reasonably claim that in fact we cannot understand Logical Positivism *as a live* 17
18 *option*, and *completely*, any more. If that were so, he would still be faced with 18
19 the Davidsonian dilemma initially presented above: Is the claim that we can’t 19
20 genuinely understand (e.g.) Positivism anymore? Or is it that we *can* understand 20
21 it, if we make a special kind of hermeneutic effort, as Kuhn implies of Aristotle, of 21
22 Carnot and of Copernicus, in those moments when he is getting us into their mind- 22
23 set; and as he sometimes seems to imply similarly of those philosophical views 23
24 he disagrees with? In which case, doesn’t the alleged radical incommensurability 24
25 (incommensurability of meaning) fail? Surely the claim is not that Kuhn has a 25
26 godlike capacity to see what no scientist (or philosopher of science) can? Can 26
27 we so much as understand a paradigm that we cannot / do not accept? This is the 27
28 question which Kuhn *can* now seem ill-equipped to answer. 28

29 This Section has thus far represented my best effort to set out the difficulties 29
30 Kuhn faces if he is some kind of strong meaning-incommensurabilist, and my 30
31 best effort (1.1 notwithstanding) to set out why such an interpretation of Kuhn has 31
32 seemed attractive. Let us explore these questions that I have raised thus far in this 32
33 Section, by means of an investigation of the concept of ‘incommensurability’ via 33
34 the philosophy of language. 34

35 35

36 36

37 37

38 ²⁵ See Koestler’s *The Sleepwalkers*. This point also takes us close to Hacking’s 38
39 notion of ‘topic-incommensurability’, the thought that what people are working on (what 39
40 area their science is (in) is different before and after a revolution. 40

41 ²⁶ And now we are back to what, at the start of this Section, I termed a ‘cheap’ 41
42 and ‘unrewarding’ way of labelling Kuhn a relativist. It now seems, according to the 42
43 interpretation that we have attempted to develop in the present Section, that we are in fact 43
44 driven down this way. This is a clue to the failure of the interpretation under consideration 44
45 in this Section. 45

1 And let us bear this in mind, as we proceed: To be in a position to settle these 1
 2 questions, we need not only to bear in mind the provisos expressed earlier about 2
 3 important respects in which *philosophy* ought not to be expected to conform to an 3
 4 analysis of *science*, but *also* to explore more fully what ‘incommensurability’ can 4
 5 or could actually mean. 5

6
 7
 8 **Incommensurability: What Can ‘Incommensurability’ Actually Mean?**²⁷ 8
 9 9

10 The idea of incommensurability, meaning the lack of a common system of measure, 10
 11 originally comes from mathematics, from the shock which the Pythagoreans long 11
 12 ago got from realising that there must be numbers which are not expressible as 12
 13 fractions, which are not ‘rational’. That the hypotenuse of a right-angled isosceles 13
 14 triangle is not a rational number in length if the other two sides are directly 14
 15 implies that the hypotenuse is in the final analysis incommensurable in its length 15
 16 to the other side(s). You cannot use the same ruler to measure them both with full 16
 17 accuracy.²⁸ 17

18 But this will yield us only a very tiny ‘amount’ of incommensurability. For, to 18
 19 *any* arbitrary less than ‘complete’ *standard* of accuracy, the ‘incommensurable’ 19
 20 sides of the triangle in question *can* be compared in length. How can we understand 20
 21 Kuhn then as saying something ‘more’ than what a Pythagorean would say here, 21
 22 as he clearly seems to want to. Once more, a comparison with Winch may prove 22
 23 helpful. Winch, like Kuhn, is interested in understanding – is interested in the very 23
 24 ‘intelligibility’ of – the ‘alien’ culture, not in the question of the truth of its claims. 24
 25 There is no sense, insofar as one’s purpose is to understand the Azande way of life, 25
 26 in saying that their concept of ‘witch’ is incoherent, or even in saying ‘Witches 26
 27 don’t exist’: that’s just another way of saying ‘We don’t believe in Witches’.²⁹ 27
 28 What one *can* say, and this is *clearly* true, is ‘We just *don’t* use terms/concepts like 28
 29 ‘witch’. We absolutely/simply can’t take *seriously* the idea that there are witches.’ 29
 30 Much as the Einsteinian could say, without question-begging ‘We just don’t use 30
 31 the term ‘mass’ in the way that Newtonians did; we have *good reason* to believe 31

32
 33

34 27 These pages very occasionally draw on an earlier version of this material, in 34
 35 ‘Incommensurability 1’ in Sharrock and Read (2002). 35

36 28 For full explication, see Sharrock and Read (2002: 141f). 36

37 29 This is not quite right -- to be precise, what Winch says is that the social student or 37
 38 philosopher has no business imposing a standard of coherence upon the Azande such that 38
 39 the Azande concepts are incoherent, except insofar as there may be incoherence within those 39
 40 concepts which the Azande themselves are ready to acknowledge. Winch’s specific point, 40
 41 of course, is that it looks on careful inspection like they make no such acknowledgement 41
 42 -- and so we must revise our understanding of the game they are playing, and learn to see 42
 43 it as not founded upon something incoherent. (Of course, my approach at this point is 43
 44 presupposing rather than arguing for the adequacy and pointfulness of Winch’s approach 43
 44 and conclusions -- some readers may be unwilling to concede this. See 2.1, below.) 44

1 that the theories one gets out of using it that way will be less good, so far as 1
 2 we're concerned, than those we can get out of talking *a la* Einstein instead.' To 2
 3 say that would be far better, historico-philosophically speaking, than to say, 'You 3
 4 *can't* use that term in that way!' Such language-policing is pointless. It's not that 4
 5 one can't (though surely most busy and efficiency-minded practising scientists 5
 6 can't any more), it's that we just *don't*, and that we don't even begin to *take it* 6
 7 *seriously*, except if we are interested in understanding the *history* of the discipline. 7
 8 And again, what natural scientist *qua* natural scientist should have to be much 8
 9 interested in doing that? 9

10

11

12

13 Ian Hacking describes how a possibility like that which we have been discussing 13
 14 can be generalised: 14

15

16 If the meaning of the theoretical terms or 'concepts' depends on the laws and 16
 17 theories, what happens when we revise or abandon the law or a theory? The 17
 18 radical conclusion is that meanings change. Moreover if the same term occurs 18
 19 in two different theories, we seem driven to the conclusion that the term differs 19
 20 in meaning in the two contexts. Theoretical progress cannot occur by deductive 20
 21 subsumption of one theory under another, for that requires sentences meaning the 21
 22 same in both stronger and weaker theories, and that now seems ruled out. Even 22
 23 the crucial experiment founders. Here is a vivid statement of that possibility, by 23
 24 Paul Feyerabend: '[A] crucial experiment is now impossible. It is impossible 24
 25 not because the experimental device would be too complex or expensive, 25
 26 but because there is no universally accepted statement capable of expressing 26
 27 whatever emerges from observation.' [R]ival or successive theories in the same 27
 28 domain are incomparable or incommensurable. (Hacking, 1975: 123–4) 28

29

30 Here, (radical) incommensurability means/is explained by means of the 30
 31 impossibility of understanding across (in Kuhn's case) paradigms. Now clearly, 31
 32 this must mean more than that one cannot do more than one thing at once. One 32
 33 cannot *simultaneously*, at one moment, in one laboratory, be a phlogistic 33
 34 chemist and a Lavoisierian chemist—this is an important point not to miss, but it 34
 35 is essentially trivial and obvious, once one thinks about it for even a moment; 35
 36 and neither can one alternate between phlogistic and post-Chemical-Revolution 36
 37 chemistry, as one would be able to if all that a scientific revolution involved was 37
 38 the opening up of the possibility of a gestalt-switch. 38

39 But is this a fair account of what *Kuhn* thinks? Well, before concluding that 39
 40 it isn't, we should at least bear in mind again how Kuhn thinks of the suggestion 40
 41 that Newtonian mechanics be taken as a special case of Einsteinian relativity, true 41
 42 as an approximation in circumstances involving only 'very low' velocities: he is 42
 43 completely untaken by the suggestion. To say it again: while being keen on the 43
 44 gestalt-switch metaphor as an account of the experience of the historian of science, 44

1 he points out that we ought not to *overlay* the analogy between standard gestalt- 1
 2 switch (e.g. with the duck-rabbit figure, and how it can switch back and forth 2
 3 before one's eyes) and gestalt-switch in science—because in science there is no 3
 4 going back. 4

5 Things get more complex, when we recall Kuhn's insistence that: 5
 6 6

7 [T]he derivation [of Newton as a special case from Einstein] is spurious. 7
 8 Newtonian mass is conserved, Einsteinian is convertible with energy. Only at 8
 9 low relative velocity may the two be measured in the same way, and *even then* 9
 10 *they must not be conceived to be the same*. Newton's laws [are not] a limiting 10
 11 case of Einstein's. For in the passage to the limit it is not only the forms of the 11
 12 laws that have changed. Simultaneously we have had to alter the fundamental 12
 13 structural elements of which the universe to which they apply is composed (*SSR*: 13
 14 101–2; italics added). 14
 15 15

16 Kuhn holds that Einstein overrode Newton, and that the two are logically 16
 17 incompatible. One can only be right if the other is wrong (*SSR*: 98). This striking 17
 18 statement from our alleged 'relativist' philosopher of science suggests how Kuhn's 18
 19 idea here is not only ranged against the thought of continual progress in science, 19
 20 but also against the thought (sometimes attributed to Kuhn) of old paradigms 20
 21 being true 'from a different point of view'. We can't seriously speak Newtonese 21
 22 any more – it is, according to Kuhn, far more dead than it is according to a 'point- 22
 23 of-view' relativist, or, on a cumulativist position about scientific-knowledge, e.g. 23
 24 Positivist. *Newton is not, for Kuhn, true from some different point of view, and nor* 24
 25 *is he even, strictly-speaking, approximately true. He is thoroughly displaced* 25
 26 *and overridden.* 26

27 So here we appear to have a radical new line of thinking in the philosophy 27
 28 of science: but now *not* one, it seems, that can be understood coherently at all, 28
 29 according to the semantic-relativist 'paradigm'. For: the old paradigm is *not* 'true 29
 30 from an alien point of view'. *However*, one may still be alarmed by the *means* 30
 31 through which Kuhn argues against the 'approximately true' version of Newton. 31
 32 Does Kuhn's idea that (e.g.) the Newtonian concept of mass means something 32
 33 different from and irreconcilable with the Einsteinian rest on a reified, deviant 33
 34 conception of meaning, a conception of meaning as radically changing over time; 34
 35 and, if so, are we any nearer to avoiding a vision of incommensurability which will 35
 36 lead us into disastrous semantic doctrines, (and/or) into a self-refutation? 36

37 Let us once more quote at length from Hacking to attempt to shed light on this: 37
 38 38

39 There are three philosophical fantasies that we could label 'too much', 'too 39
 40 little', and 'just right'. The just-righters claim there is just one right system 40
 41 of translation between any pair of languages. Philosophical debates currently 41
 42 [1975; and still to quite a large extent in 2010] focus on the claim that there is 42
 43 *too much* free play between languages to determine any uniquely best system 43
 44 44

1 of translation. The most famous exponent of this is Quine, who calls it the 1
 2 indeterminacy of translation. 2
 3 3
 4 Quine urges that there is *too much* possibility for translation. The opposed 4
 5 doctrine maintains that there is *too little*. Two human languages could be 5
 6 so disparate that no system of translation is possible. This is in the spirit of 6
 7 Feyerabend's doctrine of incommensurability. He wrote about competing 7
 8 or successive scientific theories. To say that there is no system of translation 8
 9 between languages *E* and *F* is not to say that *F* is impenetrable to speakers of *E*. 9
 10 But the *E* people can learn *F* only in the childish way of learning mostly from 10
 11 scratch. After they have done so they realize that a preponderance of sentences 11
 12 of *F* (if indeed *F* has 'sentences' at all) have no expression in *E*. It is not just 12
 13 that individual words fail us, but that sentences, paragraphs, wondering, fears, 13
 14 questions, and jokes expressed in *E* cannot be represented in *F*. Languages, 14
 15 like incommensurable scientific theories, can on this view be learned by a 15
 16 man of good will but they do not necessarily lend themselves to translation. 16
 17 Some of the greatest anthropological pioneers write as if they *experienced* this 17
 18 incommensurability. (Hacking, 1975: 151–3) 18
 19 19

20 A key point from the above is: the semantic incommensurabilist argues that there 20
 21 is not even one adequate translation between radically different schemes. Hacking 21
 22 is (in the above) deliberately charitable to the 'incommensurabilist' approach, 22
 23 and perhaps is trying to draw some of the sting from it before he even begins 23
 24 to evaluate it. However, even if we take this (charitable) interpretation there is a 24
 25 problem: Kuhn seemingly wants to be Quinian *and* Feyerabendian! He wants to 25
 26 talk of incommensurabilities as deep as or deeper than Feyerabend (recall that for 26
 27 Kuhn a paradigm is normally *entirely dominant* at any one time,³⁰ there cannot 27
 28 even be the contestation from other (albeit incommensurable) approaches that 28
 29 Feyerabend envisages; one is always, except possibly in the actual throes of crisis, 29
 30 'in the grip of' one paradigm),³¹ but *yet* he wants to talk of translation between 30
 31 different languages, *via* different schemes, as Quine does.³² 31

32 Kuhn seems to want to agree with Quine on the philosophy of language; 32
 33 and thinks he can do so by means of thinking of paradigms as *like* languages – 33
 34 languages which however may be non-inter-translatable. This is an uncomfortable 34
 35 attempt, it would seem, to be a 'too-much' *and* a 'too littler' at the same time. 35
 36 36

37 30 We ought to note here that Kuhn later became slightly more sympathetic to the 37
 38 possibility of multiple paradigms existing within a genuinely scientific discipline. See e.g. 38
 39 (*SSR*: 178). 39

40 31 This picture is complicated by the 1970 Post-Script to *SSR*, but not in a way that 40
 41 changes the central point here – the overwhelming difference between 'pre-paradigmatic' 41
 42 and 'paradigmatic' disciplines remains in place, in Kuhn of 1970 vintage and thereafter. 42

43 32 See, for example Kuhn (*SSR*: 202). Here we see how Kuhn's efforts to 'play the 43
 44 game' of Analytic philosophy may have undermined his coherence and vitality. 44

1 Kuhn may think that this is possible on the grounds of Quine's disagreement 1
 2 with Davidson on the question of 'conceptual schemes'. Quine thinks that there 2
 3 remains room in philosophy for the conception of a conceptual scheme – Davidson 3
 4 does not. Davidson is thus a 'just righter', as Hacking says³³ – but not on the 4
 5 grounds that there is one really metaphysically true way of inter-translating two 5
 6 languages. The point is that for Davidson, the translation must take place and 6
 7 that there is therefore just no meaning to the purported idea of genuine multiple 7
 8 possible translation schemata. Davidson's is thus a 'transcendental' argument. 8

9 We will settle on a translation scheme, and that scheme, provided it does not 9
 10 issue in mistakes, will simply be the 'just right' scheme – insofar as it is coherent 10
 11 at all to talk of 'just right' here. Davidson's argument, whether he is aware of this 11
 12 or not, does not prove that there is only one conceptual scheme, which we all 12
 13 share; it simply proves that there is *no sense to speaking of conceptual schemes* 13
 14 in this context. Davidson, at his best, *repudiates* the entire 'too much vs. too 14
 15 little' dichotomy, and thus is not well-understood as a 'just-righter' at all. (The 15
 16 danger is that Davidson appears to leave no room for the very phenomena that 16
 17 motivated Kuhn's inquiry: the features of previous science that are peculiarly 17
 18 hard to understand, except as error or stupidity (which would take us back to 18
 19 Whiggery again).³⁴ 19

20 Kuhn doesn't appear to recognise that his would-be 'too-mucher' Quinianism 20
 21 is incompatible with the 'too-littler' Feyerabendian (or rather, what we are taking 21
 22 to be the distinctively semantic-incommensurabilist) elements of his own picture. 22
 23 These latter elements are those that suggest that there can be no way of 'capturing' 23
 24 in language alien *schemes* of thought. For Quine, alien schemes *have to be* the basis 24
 25 of possible translation manuals, and indeed, they must cash out behaviourally.³⁵ 25
 26 Kuhn wants to hold roughly the Quinian line – but at the same time to raise the 26
 27 possibility of utterly discrepant schemata, *incommensurable* schemata that cannot 27
 28 be adequately translated. There is no place for this that is compatible with the 28
 29 Quinian picture (let alone with the Davidsonian one) – if what Quine (or Davidson, 29
 30 for quite different reasons) were saying were correct, there would certainly be no 30
 31 way that one could be a serious semantic relativist.³⁶ And this is just another way 31
 32 of putting the dilemma that we have expressed several times now in this Section. 32

33 Thus, there still seem to be mutually incompatible elements in Kuhn's thought, 33
 34 and it is not clear how one might conceivably put all of his thought together. Because 34

35
 36
 37 33 On p.151, and cf. pp.153–4 for detail. 36

38 34 See Sharrock and Read (2002: 148f) for more on this front. 37

39 35 For Davidson, there is no such thing as an alien scheme, and so of course there 38
 40 is trivially no fact of the matter as to whether we have got an alien scheme right or wrong 39
 41 -- for it's just not meaningful to talk that way. 40

42 36 Contrast Chris Swoyer's Relativist incomprehension of Quine's (admittedly subtle 41
 43 and itself highly-problematic) position, on p.101 of 'True for', in *Relativism: Cognitive and* 42
 44 *Moral* (eds. Meiland and Krausz, Univ. of Notre Dame Press, Notre Dame and London, 43
 44 1982. 44

1 it is not clear what we are to make of a ‘conceptual scheme’ that is described to 1
 2 us – and then we are told that we cannot really understand the description. Yet that 2
 3 is what (a meaning-incommensurabilist) Kuhn gives us – or *appears* to give us.³⁷ 3
 4 Kuhn has apparently *by his own lights* said the unsayable. 4

5 The irreconcilability of distinct elements in the position Kuhn seemingly wishes 5
 6 to put forward philosophically is such that we have to conclude that, insofar as it 6
 7 is meaningful ever to say that someone refutes themselves, Kuhn-the-relativist has 7
 8 done so. *If* this were Kuhn, then: he could not give us the history of science on a 8
 9 plate,³⁸ and then refuse us the meal. He could not both have his conceptual scheme 9
 10 cake, not even *a la* Quine, and acknowledge that the cake (as it were) *eats itself*. 10

11

12

13

14 Though Kuhn has received the attention of some of the most impressive modern 14
 15 philosophers, they have perhaps traded criticism with the legendary, more than 15
 16 the real, figure. The figure I have set out above, though not without prompting in 16
 17 Kuhn’s text, is not, I believe, the real figure. Kuhn-the-relativist is *not* Kuhn – but 17
 18 how so? This Section has been an experiment, a way of testing out a powerful and 18
 19 popular (both with major mainstream American philosophers, and with many of 19
 20 Kuhn’s ‘followers’) version of Kuhn’s thoughts on what happens in paradigm- 20
 21 shift. In the following Section, I will try to lay out – on pain otherwise of having 21
 22 to convict Kuhn of a deep flaw in his philosophy – a reading of Kuhn which 22
 23 will find those moments in his work (moments marked by terms such as ‘partial 23
 24 communication’, ‘incommensurable’, ‘different worlds’, etc.) which I dwelled 24
 25 upon in this Section *to be reinterpretable in other ways than those I have here* 25
 26 *offered/explored*. 26

27 Thus I am about to engage in a different kind of experiment – not so 27
 28 much the application of what have often been taken to be Kuhn’s views on 28
 29 incommensurability to Kuhn himself (for that experiment ought to founder on the 29
 30

31 ³⁷ As it were, on this interpretation he gives us Aristotle or Ptolemy or Copernicus 31
 32 or Carnot on a plate, invites us to enjoy our meal – and then says that it is in principle 32
 33 indigestible. 33

34 ³⁸ Important here is Kuhn’s antipathy to Whig history (of science). I am of course in 34
 35 hearty agreement with Kuhn here – provided one recognises that there are significant limits 35
 36 to the extent to which the ‘avoidance’ of Whiggism is in principle possible. There is no 36
 37 such thing as someone writing a history of science with NO preconceptions as to actual the 37
 38 nature of scientific phenomena, as to what some of the laws of science are, etc. – that, again, 38
 39 (a different part of) Kuhn himself taught us. If there is any meaning to talk of conceptual 39
 40 schemes – or paradigms -- then there is no writing the history of science without some 40
 41 recourse to them on one’s own part; i.e., to one’s own paradigm. One cannot see x neither 41
 42 as a planet nor as a satellite (if Kuhn is right – see SSR: 115. One may adopt a stance of 42
 43 methodological indifference; but one must always recognise the built-in ‘limits’ of such a 43
 44 stance, limits which have in part to do with the very identifying of some activity as in the 44
 45 field of ‘science’ at all.

1 difference, not always appreciated by Kuhn himself in *SSR*, between philosophical 1
2 and methodological reflections on the one hand and science itself on the other), 2
3 but (rather) the attempt to develop a reading which definitively *finds a sense* in 3
4 Kuhn's own views on incommensurability. A sense, rather than the nonsense 4
5 which Kuhn's views would amount to, as we have seen, if he were a 'strong 5
6 incommensurabilist' about meaning. In order to escape the dilemma, the sense of 6
7 Kuhn hovering between two incompatible desires that we have explored in recent 7
8 pages, we need to find a way of decisively overcoming the Kuhn-as-semantic- 8
9 relativist reading of Kuhn. 9
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1		1
2	1.3 Wittgenstein and Kuhn on	2
3		3
4	Incommensurability – The View From Inside	4
5		5
6		6
7	[I]f anyone believes that certain concepts are absolutely the correct ones, and that	7
8	having different ones would mean not realizing something that we realize – then let	8
9	him imagine certain very general facts of nature to be different from what we are	9
10	used to, and the formation of concepts different from the usual ones will become	10
11	intelligible to him.	11
12		12
13	Ludwig Wittgenstein, <i>PI</i> , Part II section xii.	13
14		14
15	‘So you are saying that human agreement decides what is true and what is false?’	15
16	– It is what human beings say that is true and false; and they agree in the language	16
17	they use. That is not agreement in opinions but in form of life.	17
18		18
19	Ludwig Wittgenstein, <i>PI</i> , 241.	19
20		20
21	In this Section, I take up the challenge explored in the previous Section from	21
22	inside the perspective of Kuhn’s critics, such as Davidson. Building on	22
23	suggestions already made about how what Kuhn in fact offers us is a kind of view	23
24	from ‘inside’ the history of science, an opportunity genuinely to understand what	24
25	Aristotle or whoever was up to, and about how Winch offers a helpful model of	25
26	this too, I endeavour to set out a picture, compatible with that already offered in	26
27	Section 1.1, of what Kuhn on incommensurability actually offers. Thus broadly	27
28	Wittgensteinian thinking here helps, I hope once and for all, to lay to rest the kind	28
29	of dubious/relativistic ‘incommensurability thesis’ that threatens so to deform our	29
30	understanding both of natural science <i>and</i> (by extension) of ‘human science’.	30
31	What happens when paradigms shift? Successive paradigms overlap, in the	31
32	sense that the successor carries on with much of the work of the predecessor. Much	32
33	material is re-used from the earlier paradigm (Kuhn talks of it being ‘cannibalised’	33
34), but, rather than being retained in its inherited form, it is recast in the ‘wholistic’	34
35	context of the new paradigm. For example, the vocabulary of physics ostensibly	35
36	changed quite little in the transition from Newton to Einstein – but we have seen	36
37	how Kuhn insists that the Newtonian concepts were in effect surreptitiously	37
38	<i>thoroughly</i> cannibalised and remoulded. In this case particularly, the apparently	38
39	<i>common</i> elements <i>dividing</i> the two paradigms – like the well-known two peoples	39
40	/ nations (the USA and the UK), well said by popular lore to be ‘divided by a	40
41	common language’, <i>misleadingly</i> look like they are the same.	41
42	Kuhn offers, then, a way to avoid being taken in by ‘false friends’, when doing	42
43	the history of science.	43
44		44

1 Kuhn wants one to be able to understand the Newtonian ‘thought-style’ or 1
 2 ‘sensitivity’; for this task, he believes that finding ‘translations’ (the scare-quotes 2
 3 around that word are important here, and below) of ‘Newtonese’ into ‘Einsteinese’ 3
 4 is not enough. One needs to be taught – as Kuhn hopes to help teach – how to pick 4
 5 up *nuances* and connections lost in any such Davidsonian or Quinian translation. 5
 6 From my Wittgensteinian perspective, it helps to point out the considerable extent 6
 7 to which what Kuhn is really talking about is, roughly, ways in which changes 7
 8 in paradigms engage in and can even be said to constitute the reconfiguration 8
 9 of grammar.¹ Language is not something that floats free, but something which is 9
 10 thoroughly – utterly – interwoven with activities. ‘Conceptual change’ is 10
 11 integral to change in ways of organising activities: What words can mean depends 11
 12 upon their connection to, and part in, our activities. When Wittgenstein says that 12
 13 to describe a language is to describe a way of life, he does *not*, as Sapir-Whorf 13
 14 would have it, mean that the ordinary meaningful use of some particular language 14
 15 is in the end incomprehensible to someone thinking or speaking in the ‘different 15
 16 ontology’ of another language. That way, clearly, lies self-refutation. 16

17 What *does* Wittgenstein mean, then? Take the word ‘king’. If we want to 17
 18 explain that *word*, we might start by describing the game of Chess. ‘King’ there 18
 19 doesn’t mean the same as it does when it is the title of a British ruler – though there 19
 20 is some connection between the two.² It is perhaps a common mistake to follow 20
 21 the idea that a word gets its meaning from its involvement with an activity to the 21

22 _____ 22
 23 24
 24 1 For details on how I here understand ‘grammar’, see Guetti and Read (1999) or the 24
 25 early chapters of Read (2007a). For more on what I mean by this claim as a whole, compare 25
 26 the following fascinating remark from Wittgenstein’s Nachlass (Thanks to Oskari Kuusela 26
 27 for pointing this remark out to me, and to Philip Wilson for the translation:) ‘The difficulty 27
 28 only consists in understanding how determining a rule can help us. Why it calms us after we 28
 29 were so deeply disturbed. What calms is evidently that we see a system that systematically 29
 30 excludes those aspects that have always disturbed us that we did not know how to manage 30
 31 not like the discovery of an explanation in physics? E.g. of the Copernican system? A 31
 32 similarity is available.’ (MS 112, p.119; emphasis added). 32

33 2 I exploit this kind of connection shortly, in suggesting the respects in which really 33
 34 grasping an ontology – a conceptual scheme – is very like grasping the full panoply of 34
 35 connections between words, or even between different senses of the same word. In other 35
 36 words, for example, perhaps the natural (to us) connection between ‘king’ in Chess and 36
 37 ‘king’ in the Buckingham Palace sense is necessary to a full appreciation of what Chess is; 37
 38 and likewise, one will be missing something central to Newton if one connects his concept 38
 39 of (e.g.) ‘mass’ with what doesn’t naturally connect with it, and misses the connection 39
 40 between it and what naturally goes along with it in the Newtonian ‘world-view’. The word 40
 41 ‘mass’ in Newton is perhaps connected with a world-picture in the kind of way in which 41
 42 the word ‘king’ in Chess is connected with literally a picture of how things are in the real, 42
 43 human (in this case, political) world. (The considerations Feyerabend used to argue for 43
 44 incommensurability between Newton and Einstein were not dissimilar – see Preston (1997: 43
 44 106f) for a useful account.) 44

1 conclusion that only those who engage in the activity can properly understand its 1
 2 meaning(s). The word 'king', in the English language, is the name of a Chess piece 2
 3 and the title of a monarch – and it is clear that republicans can use and understand 3
 4 the word 'king' in the latter sense, in a perfectly ordinary everyday way, just as 4
 5 well as monarchists. 5

6 Kuhn tries to get us to understand periods / forms of science which we do not 6
 7 participate in – indeed, could not possibly participate in. He does so, in part, by 7
 8 getting us to understand the 'game' that was played with the words used by those 8
 9 scientists, and the ways in which those words were inter-related with one another, 9
 10 and with actual practice. The disappearance of an activity does not deprive us 10
 11 completely of the use of the language it is interwoven with – Latin teachers would 11
 12 have been living some big lies, otherwise. It is not as if, either, the word 'king' 12
 13 loses its meaning the minute we establish a republic. There is a sense in which a 13
 14 change in grammar alters what it is possible to say, and another sense in which it 14
 15 doesn't. 15

16 Compare Kuhn with what Wittgenstein says in 'On Certainty', a passage 16
 17 which encapsulates much of the message of the central chapters of *SSR*, and whose 17
 18 various elements can in almost every case be tied, if one cares to put in the work, 18
 19 to elements of Kuhn's own presentation: 19

20
 21 I did not get my picture of the world by satisfying myself of its correctness; 21
 22 nor do I have it because I am satisfied of its correctness. No: It is the inherited 22
 23 background against which I distinguish between true and false. 23
 24 24

25 The propositions describing this world-picture might be part of a kind of 25
 26 mythology. And their role is like that of rules of a game; and the game can be 26
 27 learned purely practically, without learning any explicit rules. 27
 28 28

29 It might be imagined that some propositions, of the form of empirical 29
 30 propositions, were hardened and functioned as channels for such empirical 30
 31 propositions as were not hardened but fluid; and that this relation altered with 31
 32 time, in that fluid propositions hardened, and hard ones became fluid. 32
 33 33

34 The mythology may change back into a state of flux, the river-bed of thoughts 34
 35 may shift. But I distinguish between the movement of the waters on the river- 35
 36 bed and the shift of the bed itself; though there is not a sharp division of the one 36
 37 from the other. the same proposition may get treated at one time as something to 37
 38 test by experience, at another as a rule of testing.' Wittgenstein (1969: sections 38
 39 94–98) 39
 40 40

41 This kind of change in grammar is, I think, absolutely central to what Kuhn 41
 42 means by 'incommensurability'. There cannot be any such thing as surveying 42
 43 from some external standpoint such changes in grammar. And they are not 43
 44 in the main well-understood as strictly semantic changes, on the standard 44

1 understanding of what ‘semantics’ is: for that would require that there were such 1
 2 a thing as a mode of comparing, and an ‘Archimedean’ position from which to 2
 3 compare, the meanings of the words before and after a shift in the state of the 3
 4 ‘river’, whereas all we can actually do is note the changes in patterns of use, and 4
 5 try to draw out how those changes *may be usefully said to yield a change in our* 5
 6 *way(s) of thinking*, or some such. 6

7 When Kuhn attempts to get one to understand conceptual schemes of days 7
 8 gone by, this is really, I believe, what he is about. Were any of us in the sort of 8
 9 circumstances in which Newton operated, we would have been Newtonians, and 9
 10 would not have found the difficulty we now do in finding Newton both persuasive 10
 11 and completely natural. This is Kuhn’s harmless ‘relativism’ about rationality, 11
 12 which does not imply any endorsement of the mode of thinking in question; far 12
 13 from it. Compare once more Winch on ‘witchcraft’: Winch’s arguments absolutely 13
 14 do *not* require us to endorse witchcraft (and indeed, we could not possibly do 14
 15 so), only to see that practicing it isn’t some kind of dumb mistake or misguided 15
 16 pursuit of scientific objectives. What I am trying to do is to facilitate the reader’s 16
 17 adopting an attitude toward ‘incommensurability’ that finds it to be more modest 17
 18 and reasonable, and less about (what ‘mainstream’ philosophy tells us is) meaning 18
 19 *per se*, than most of the philosophy of science literature would lead one to expect. 19

20 I think the key to the sense in which Kuhn can be some kind of 20
 21 ‘incommensurabilist’ without refuting himself is to see how hereabouts one 21
 22 needn’t exactly be an incommensurabilist about *meaning*, nor even really about 22
 23 meaning considered as use. There is a strong sense in which a tenable version of 23
 24 ‘incommensurabilism’ is available which is not incompatible with Wittgenstein, 24
 25 nor with the best of Davidson (with what is tenable in Davidson’s thought), if 25
 26 one focuses not on matters strictly semantic, but on other aspects of language 26
 27 and its practice, other aspects which as a first approximation might be put under 27
 28 the heading of ‘those elements of language which one loses in a translation’.³ 28
 29 (Like a translation from one form of mathematical representation to another: from 29
 30 reals to rationals, as with Pythagoras, for instance.) Those effects and *aspects* of a 30
 31 ‘language-game’ which are not simply transferable from one natural language to 31
 32 another, or which are missed if one simply focuses on what is being deliberately 32
 33 done or accomplished or communicated through the use of words. 33

34
 35

36 3 These elements are termed ‘grammatical effects’ by Guetti (1993a) – see Guetti 36
 37 and Read (1999), a paper chiefly concerned with the delineation from meaning (from 37
 38 the ‘meaningful consequences’ of language use) of such effects; see especially pp.304– 38
 39 7. Guetti’s discussions, which are relatively unfamiliar in philosophy of language, let 39
 40 alone philosophy of science, are I think superior in their philosophic ‘productiveness’ to 40
 41 (say) Gricean ideas which also and more familiarly complexify one’s understanding of 41
 42 meaning and effects of words. I think that the Guettian contribution toward ‘pragmatics’ is 42
 43 substantial – and is just what is needed, to help understand what Kuhn can be and – we think 43
 44 – is intelligibly up to. A first approximation might be: not semantic incommensurability, but 44
 45 incommensurability of ‘grammatical effects’.

1 What happens *in the seeing of aspects* is not strictly a matter of what mainstream 1
 2 philosophy calls meaning, of ‘semantics’ – but it is of real importance.⁴ If, rather, 2
 3 we look carefully at the way in which something – although not exactly ‘meaning’ 3
 4 – is lost, gained or changed in these transitions, we may want to say that what is 4
 5 lost is the distinctive *aspect* – the physiognomy – of the language of one paradigm 5
 6 as opposed to the other. 6

7 This is why Kuhn comes over time to stress more the importance of the 7
 8 incompatibility of the languages of different paradigms in the same field. It is not 8
 9 exactly that one can’t translate from one to another – one can, and nothing that 9
 10 might be termed ‘strictly semantic’ *need be lost* in the transition, the translation. 10
 11 But still there is a change of aspect – and it is this which means that successful 11
 12 translations of (say) phlogistic into Lavoisierian chemistry are necessarily only 12
 13 partially successful. *This* is what Kuhn can mean by ‘partial communication’. 13
 14 Translation is not to be identified with understanding. We can have understanding, 14
 15 even though there is ‘something missing’ from the translation, because there is 15
 16 something more than successful *translation* that constitutes such understanding. 16

17 Here again, it becomes ‘clear’ why Kuhn found it so difficult to say what he 17
 18 wanted to say. For it is *difficult*, it takes hard work, to make the point that *I* am 18
 19 trying to make here. One is always tempted either toward some kind of gesture 19
 20 at ineffable mysteries beyond language, or toward some kind of straightforward 20
 21 theorisation (of the kind which philosophers normally give) of the domain in 21
 22 question, or both.⁵ One is, that is, tempted toward an ineffabilism which cannot 22
 23 be satisfactory, and/or toward a theorisation of the semantics of the situation 23

24 _____ 24
 25 4 One might start with Wittgenstein’s discussion of ‘meaning-blindness’ and ‘aspect- 25
 26 blindness’ in Part II of *PI*. Wittgenstein does not deny that the ‘meaning-blind’ person 26
 27 could use language tolerably well in a basic way; what s/he would miss is all the subtler 27
 28 ‘effects’ which we are going to go into shortly. For further detail here, to see just the kind 28
 29 of thing we have in mind, the interested reader is advised to consult the best of those 29
 30 Wittgensteinian writings which focus on aspect-seeing. I have in mind particularly Guetti 30
 31 (1993b), Koethe (1996) and Mulhall (1990). Cf. also Stanley Cavell’s work. (It is worth 31
 32 noting once more in passing that Kuhn had a long intellectual relationship with Cavell and 32
 33 his students, his particular Wittgensteinian ‘school’, at Harvard and elsewhere. (One of this 33
 34 ‘school’, James Conant, was appointed by Kuhn his literary executor.) This relationship 34
 35 may have something to do with the obvious prominence of aspect-seeing in Kuhn’s account 35
 36 of revolution and paradigm-shift. It may also explain the close connection between the 36
 37 ‘Cavell school’s reading of Wittgenstein on ‘logically alien thought’ (which several essays 37
 38 in Crary and Read (2000) argue Wittgenstein rightly found to be a quite unintelligible idea) 38
 39 and the reading of Kuhn which in this Section I am arguing is the correct one: that Kuhn 39
 40 did not put forward the (unintelligible) thesis that different paradigms are semantically 40
 41 unintelligible to one another, such that one appears to the other not even to be (logical) 41
 42 thought at all, but rather the modest (non-)thesis that it requires work, and not a simple or 42
 43 plain comparison, to understand science very different from one’s own.) 43

44 5 For a detailed account of such temptations and oscillation, see Part I of Read 44
 44 (2007a).

1 which will either yield paradox and self-refutation (as in the case of Kuhn applied 1
 2 to Kuhn as discussed in 1.2 above); alternatively, one simply fails to grasp the 2
 3 phenomenon, fails to see how there is a problem here which Kuhn is trying to 3
 4 respond to in the first place. 4

5 This is where most philosophers end up: thinking (*a la* Section 1.2, above) that 5
 6 Kuhn refutes himself, and that the only alternative is to deny that there is really any 6
 7 problem understanding past science, understanding across scientific revolutions, 7
 8 etc. . As should now be plain, I think this response is quite inadequate. There is a 8
 9 reason why Kuhn found most contemporary history and philosophy of science to 9
 10 be inadequate (and why much of it is still so). So we should follow Kuhn in trying 10
 11 to tread the difficult path between a kind of mysticism of paradigm-shift and an 11
 12 'account' of paradigm-shift which suggests that there is no obstacle to standard 12
 13 formalist or realist accounts of the historical episodes in question, i.e. a denial that 13
 14 there is really anything worth calling paradigm-shift at all. 14

15 As Kuhn makes clear in his *Reflections on my Critics* there *is* in fact a minimal 15
 16 sense in which he is willing hereabouts to be regarded as a 'relativist'. That sense 16
 17 is conveyed in the following remarks: 17

18
 19 [There *are*] contexts in which I am wary about applying the label 'truth'.. 19
 20 . Members of a given scientific community will generally agree which 20
 21 consequences of a shared theory sustain the test of experiment and are therefore 21
 22 true, which are false as theory is currently applied, and which are as yet untested. 22
 23 Dealing with the comparison of theories designed to cover the same range of 23
 24 natural phenomena, I am more cautious. If they are historical theories...I can join 24
 25 with Sir Karl [Popper] in saying that each was believed in its time to be true but 25
 26 was later abandoned as false. In addition, I can say that the later theory was the 26
 27 better of the two as a tool for the practice of normal science.. Being able to go 27
 28 that far, I do not myself feel that I am a relativist. Nevertheless, there is another 28
 29 step, or kind of step, which many philosophers of science wish to take and which 29
 30 I refuse. They wish, that is, to compare theories as representations of nature, 30
 31 as statements about 'what is really out there'. Granting that neither theory of a 31
 32 historical pair is true, they nonetheless seek a sense in which the latter is a better 32
 33 approximation to the truth. I believe nothing of that sort can be found. (Kuhn, 33
 34 2000: 264). 34
 35 35

36 Thinking of incommensurabilism as being about 'meaning' but as compatible with 36
 37 something like an 'indeterminacy of translation' idea is the result of an unfortunate 37
 38 combination of Quinianism with a wish to hold onto a semantical attitude 38
 39 incompatible with it, and I am now in a position to suggest that this unfortunate 39
 40 hybrid was *not* Kuhn's. Rather, 'partial communication' is about speaking at cross- 40
 41 purposes, from bases which are not fully reconcilable with one another (and across 41

42
 43
 44

1 which there is no point and no available means of making serious ‘verisimilitude’ 1
 2 calculations). *That* is what Kuhn is saying.⁶ 2

3 If Kuhn is not usefully thought of as a relativist about truth in the strong sense in 3
 4 which that idea is normally meant, nor is he an incommensurabilist about meaning. 4
 5 But he does want to say that there is something worth calling incommensurability 5
 6 between paradigms; and he thinks that correspondence theories of truth are 6
 7 trivial or empty. Kuhn, unlike Popper, thinks that ‘verisimilitude’ is an empty 7
 8 and unnecessary shuffle. ‘Correspondencism’ works only when it is entirely 8
 9 unsurprising – when there is no live issue.⁷ *When one has an uncontroversial 9*
 10 *ontology, one can compare what one says—one’s sentences—with reality. But 10*
 11 *ontologically controversial claims, i.e. all claims made at times of crisis, thus at 11*
 12 *precisely the times which Kuhn speaks of – allow of no such adjudication.* 12

13 So, as we have already seen hints of, Kuhn thinks that Popper’s ‘verisimilitude’ 13
 14 claims are of extremely dubious philosophic standing: 14

15
 16 To say, for example, of a field theory that it ‘approach[es] more closely to the 16
 17 truth’ than an older matter-and-force theory should mean, unless words are being 17
 18 oddly used, that the ultimate constituents of nature are more like fields than like 18
 19 matter and force. But in this ontological context it is far from clear how the 19
 20 phrase ‘more like’ is to be applied. Comparison of historical theories gives no 20
 21 sense that their ontologies are approaching a limit: in some fundamental ways 21
 22 Einstein’s general relativity resembles Aristotle’s physics more than Newton’s. 22
 23 In any case, the evidence from which conclusions about an ontological limit are 23
 24 to be drawn is not of whole theories but of their empirical consequences. (Kuhn, 24
 25 2000: 265)⁸ 25
 26 26

27 You can call this ‘relativism about truth’, if you want. If it is, then it is in a very 27
 28 particular and modest sense only. It doesn’t do the harm that any strong relativism 28
 29 about truth (or meaning) generally does. 29

30 Scientific theories can be thought of as making claims about nature, of course. 30
 31 But Kuhn thinks there are two mistakes that must be avoided: firstly, the mistake 31

32
 33
 34 6 See Kuhn (2000: 233) 34

35 7 The point here is the very same point as Kuhn makes about crucial experiments – 35
 36 that crucial experiments, decisive choosers between paradigms, only exist in the mind of a 36
 37 historian (and a poor historian, at that – the kind of historian who isn’t interested really in 37
 38 how things were at the time!). Crucial experiments, again, are only veridically identifiable 38
 39 in retrospect – once there is no live issue any more. At the time, they will always be open to 39
 40 conflicting judgement dependent upon paradigm-choice. They are only decisive when there 40
 41 is no longer anything to decide – when they are unsurprising and uncontroversial (i.e. not 41
 42 decisive; uncrucial!). 41

42 8 One might wish to object as follows: Can’t Newton’s propositions (as opposed to 42
 43 his ontology) be truer than Aristotle’s (etc.)? The answer, once again, is: Sure; but only 43
 44 given a paradigm. 44

1 (which follows directly from a failure to understand the point of Kuhn's concept 1
 2 of 'paradigm') of thinking that there can be a direct comparison between theory/ 2
 3 theories on the one hand and nature bare in tooth and claw on the other. Secondly, 3
 4 and still more fundamentally, one must avoid the mistake of thinking that there is 4
 5 any such thing as comparing the *elements* of a theory – its ontological fundamentals 5
 6 – with nature at all. One cannot compare a concept with nature; there is no such 6
 7 thing as doing so. To think there is, is to be the victim of an illusion of sense. 7

8 A powerful way of putting Kuhn's point here is to say that it is only *sentences* 8
 9 (and indeed sentences within an actual context of use) which can be intelligibly 9
 10 and unmisleadingly described as having meanings, uses. Not words, nor concepts, 10
 11 and not integrated sets of words or concepts. *Words require a context* – absolutely 11
 12 minimally, a sentence. What words refer to is only cashed out *via* sentences with 12
 13 uses. It makes no sense whatsoever to speak of individual words as fitting or not 13
 14 fitting reality. A word can't be true or false! It only claims – sentences in contexts 14
 15 – which 'fit reality' or otherwise. Thus point-by-point translation in a way never 15
 16 works or happens *at all* – its would-be units of meaning are too small. 16

17 Insofar as word for word, point by point translation can be said to happen (at 17
 18 all), it can do so only when the languages in question are relatively congruent, and 18
 19 when we have no trouble in uncontroversially actualising the concepts in question 19
 20 – for example, it is unlikely to be misleading if one translates *neige* as 'snow', *est* 20
 21 as 'is' etc. However, Kuhn rightly holds¹⁰ that some languages (or aspects/parts 21
 22 thereof) are not like this. And, analogically, that sometimes there are shifts in the 22
 23 history of our thought such that even 'the same sentence' has a markedly different 23
 24 aspect, a different place in a system, a different set of connections with other 24
 25 sentences and concepts, at different times. (Think once more of Kuhn's account 25
 26 in *SSR* of the relation between Newton and Einstein.) 'The Context Principle,' the 26
 27 Fregean/Wittgensteinian principle that, philosophically-speaking, we can make 27
 28 no sense of isolated words or names, when put together as it naturally can be 28
 29 with the 'modest' version of Kuhn's thought concerning paradigm-shifts which 29
 30 I am putting forth here, has as a clear consequence the complete overcoming of 30
 31 Realist 'correspondencism'. However, correspondencism is *not* thereby replaced 31
 32 by a substantive Relativism. 32

33 Everyday language-users, and especially scientists, 'live' in one paradigm at 33
 34 a time (within any one given field): a contemporary physicist for example cannot 34
 35 seriously make *assertions* in Newtonese. This is what Kuhn calls 'irreversibility' 35
 36 in the development of science.¹¹ Kuhn is *not* saying that from a certain point of 36
 37 view, the old paradigm is still true. As we have already seen, he expressly holds, 37
 38 38

39 9 See the work of Kuhn's literary executor, James Conant, on the Context Principle 39
 40 in Wittgenstein (and Frege). See also Read (2000a). 40

41 10 See in particular the close of this Section, below, and Kuhn (2000: 264–6). 41

42 11 See Kuhn (2000: 264). It is worth repeating this point, because it is fundamental: 42
 43 if Relativism were tenable in the form it is often taken to be – and taken indeed to be 43
 44 Kuhnian – then one could say that there is a point of view from which Newton (or Ptolemy) 44

1 for example, that Newton can be rendered a special case of Einstein (and thus 1
 2 remain true) only at the cost of *misunderstanding* Newton's theory,¹² where 2
 3 'misunderstanding' is taken in the somewhat specific and peculiar sense which 3
 4 I am here endeavouring to construe. There is a real *clash* between paradigms for 4
 5 Kuhn, in a way which Relativist readings of him typically ignore or finesse, at the 5
 6 cost of completely missing Kuhn's point. 6

7 We might try as an 'object of comparison' thinking of paradigm-breaking 7
 8 science as akin to genuinely new poetry – which can (depending upon the reader) 8
 9 seem to be good poetry, bad poetry, or not poetry at all. Or, perhaps better, we 9
 10 sometimes encounter people saying things like: 'I can see what you're saying in 10
 11 a way, I hear the words, I know what you could mean if you meant them in an 11
 12 ordinary sense, but yet ...'. This is often the case *in philosophy*. 12

13 When Kuhn is talking about incommensurability, the best analogy of all may 13
 14 be *to the situation of two persons or schools locked in ongoing philosophical* 14
 15 *misunderstanding*. (And again, this should hardly surprise us: for Kuhn is quite 15
 16 explicit that at times of crisis science sometimes starts to look like philosophy.) 16
 17 Such philosophical puzzlement, where what one side says must seem either 17
 18 pointless or nonsensical to the other, is virtually never resolvable through 18
 19 semantic clarification, through a simple mutual demonstration of meanings.¹³ 19
 20 (The philosopher must practice a 'hermeneutic' effort to understand another 20
 21 philosopher—and just this is what is called for in the philosophy and history of 21
 22 science, too). 22

23 Relativism, as already suggested, tends to be deeply internally unstable (self- 23
 24 refuting, in fact), always leaning towards saying incompatible things at the same 24
 25 time. Relativism either claims that Newton and Einstein are saying the same thing 25
 26 in different ways (but that is not really any different from Realism, which states 26
 27 27

28 is right. But Kuhn expressly (and repeatedly) denies this: 'Einstein's theory can be accepted 28
 29 only with the recognition that Newton's was wrong' (*SSR*: 98). 29

30 12 See the second half of 1.2, above. One should add to this that global judgements 30
 31 of truth or falsity are of relatively little use hereabouts, anyway. Ptolemy's system included 31
 32 many 'small' accurate observations; and all theories, even 'true' ones, are born refuted. All 32
 33 theories work – to some extent. 33

34 13 For typically, as Wittgenstein puts it, 'The one party attack the normal form 34
 35 of expression as if they were attacking a statement; the others defend it, as if they were 35
 36 stating facts recognized by every reasonable human being' (*PI* 402.) This, according to 36
 37 Wittgenstein, is what disputes between 'relativists' etc. on the one hand and 'realists' on the 37
 38 other are like. And even if one gives up such 'isms', the basic situation remains the same. 38
 39 Efforts at mutual understanding (in philosophy) are, for Wittgensteinians, beset continually 39
 40 by disconcerting little and large incommensurabilities. It is these which one spends one's 40
 41 philosophical time and effort trying to resolve: 'We mind about the kind of expressions 41
 42 we use concerning [everyday things – e.g. physics]; we do not understand them, however, 42
 43 but misinterpret them. When we do philosophy we are like savages, primitive people, who 43
 44 hear the expressions of civilized men, put a false interpretation on them, and then draw the 44
 44 queerest conclusions' (*PI* 194). 44

1 that Newton is a special case of Einstein) or it claims there is no understanding 1
 2 *whatsoever* possible of one from the point of view of the other – in which case 2
 3 it is a kind of extreme Scepticism, or ‘pluralised’ Solipsism, and will at the least 3
 4 result in the kind of self-refutation discussed earlier (especially in 1.2), if one 4
 5 nevertheless goes on to try to give any kind of account of the nature of past science. 5
 6 Kuhn, by contrast, looks to carefully establish the sense in which paradigms 6
 7 clash, and to differentiate that from the sense in which claims *within* a paradigm 7
 8 clash (e.g. different claims as to the value of a particular constant). He is, in the 8
 9 final analysis, *by no means* the Relativist he has been painted as being. 9

10 Part I has been thus far an experiment in reading Kuhn, an attempt to see how 10
 11 far one can push out the boat of looking at Kuhn as a genuinely Wittgensteinian 11
 12 writer (1.1) or as a non-Wittgensteinian *theorist* (1.2), writing about an area about 12
 13 which Wittgenstein himself said little. My primary interest in 1.1 and 1.3 has been 13
 14 to explore some of these affinities by means of trying to think Kuhn’s philosophical 14
 15 methods and indeed *style* at some difficult and crucial points in his work as alike 15
 16 to Wittgenstein’s own. 16

17 The reader will have to judge how far the experiment has been a success. But 17
 18 can I suggest that that experiment is best pursued further, if one is so minded, 18
 19 by continuing to look at other moments in Kuhn’s work, to see if it is successful 19
 20 there too. Insofar as it is, insofar as one finds Kuhn writing in a philosophically 20
 21 sophisticated and self-aware fashion, aware of the dangerousness, importance and 21
 22 near-inevitability of writing nonsense when one thinks the philosophical history 22
 23 of science in a way which is not tedious, timid or Whiggish, then I think one must 23
 24 tend to concur with my own judgement: that Kuhn was the greatest philosopher of 24
 25 science we have yet known, and one who was, if anyone has yet been, something 25
 26 like a Wittgenstein of the sciences, as maintained in 1.1. 26

27 I began the previous Section, Section 1.2, by saying that Kuhn is not a relativist 27
 28 about truth. However, as suggested above (in relation to the Aristotle-and-Einstein 28
 29 case, and again with reference to Popper) there *is* a limited sense in which he 29
 30 certainly *can* be justly called a relativist – and not castigated for being so. Kuhn 30
 31 believes that correspondence theory is either trivial or empty. It is trivial in cases 31
 32 where it is unsurprising: No-one could *disagree* with the truism that ‘Snow is 32
 33 white’ is true if and only if snow is white. But it is an empty shuffle – and a 33
 34 dangerously misleading one (because it may seem non-empty) – when applied to 34
 35 interesting cases: 35

36
 37 To apply [the semantic conception of truth] in the comparison of two theories, 37
 38 one must...suppose that their proponents agree about technical equivalents of 38
 39 such matters as whether snow is white. If that supposition were exclusively about 39
 40 objective observation of nature, it would present no insuperable problems,¹⁴ 40
 41

42 14 Presumably, Kuhn uses the words ‘no insuperable.’ here because he believes the 42
 43 problems presented are still severe, even in the case of ‘objective observation’. Not only 43
 44 the straight scientific difficulties, but more importantly the difficulties posed by the way in 44

1 but it involves as well the assumption that the objective observers in question 1
 2 understand ‘snow is white’ in the same way, a matter which may not be obvious 2
 3 if the sentence reads ‘elements combine in constant proportion by weight’. Sir 3
 4 Karl [Popper] takes it for granted that the proponents of competing theories do 4
 5 share a neutral language adequate to the comparison of such observation reports. 5
 6 I do not. (Kuhn, 2000: 265–6)¹⁵ 6

7
 8 None of this need be seen as producing ‘idealism’ or ‘relativism’— except perhaps 8
 9 in the minimal senses which I have allowed. The nature of what Kuhn means by 9
 10 ‘incommensurability’ has been missed by nearly all of Kuhn’s friends and foes, 10
 11 because, by means of attributing to Kuhn a (self-refuting) semantic *doctrine*, they 11
 12 have wrongly assumed that Kuhn must be committed to some strong relativist 12
 13 doctrine. 13

14 Above (see also Sharrock and Read (2002) in the latter portions of 14
 15 ‘Incommensurability 1’) I have suggested that what gets ‘lost in translation’ 15
 16 between paradigms is more or less what McGilchrist would describe as essentially 16
 17 ‘right-brained’ material: the *how*, rather than the *what*, of how the world is. 1.2 17
 18 above sought again and again to understand Kuhn in terms of a *what*: *what* it 18
 19 was/is that is allegedly lost (or gained), when one translates knowledge from one 19
 20 scientific paradigm to another. But what if this is essentially the wrong approach? 20
 21 What if what was lost / gained just cannot be adequately presented within such 21
 22 standard quasi-scientific categories? What if it is instead closer to (for instance) 22
 23 ‘what’ gets lost in the translation between two languages of some piece of literature, 23
 24 or between an artwork and its interpretation? 24

25 Then it could not be simply: *something* that was meant and cannot any 25
 26 longer be, in the new paradigm: which idea leads one into semantic relativism/ 26
 27 the incommensurability ‘thesis’. The risk of self-refutation starts to look far less 27
 28 once one understands that it is unhelpful to regard Kuhn as pushing a ‘thesis’ or a 28
 29 _____ 29
 30 which Kuhn holds that scientists ‘see’ according to a paradigm (e.g. the different ways in 30
 31 which Galileo and Aristotle saw the pendulum). 31

32 15 Kuhn goes on to add that ‘If I am right, then ‘truth’ may, like ‘proof’, be a term 32
 33 with only intra-theoretic applications.’ This may sound alarmingly like a strong Relativism 33
 34 about truth. But one should note how Kuhn immediately continues, and explicates his 34
 35 ‘position’: ‘Until this problem of a neutral observation language is resolved.’, and Kuhn 35
 36 believes of course that it will not be resolved (see the note immediately above, and see 36
 37 also Kuhn, 2000: 234–5), where Kuhn writes ‘confusion will only be perpetuated by 37
 38 those who point out that the term is regularly used as though the transition from intra- to 38
 39 inter- theoretic contexts made no difference.’ In other words, Kuhn’s point is not to make a 39
 40 dogmatic denial of the inter-theoretic validity of uses of the term ‘truth’, but rather to draw 40
 41 one’s attention to differences. *Viz.*, in this case, the difference between an intra-theoretic 41
 42 application of the term ‘truth’, and an inter-theoretic application of same. He is concerned 42
 43 that most philosophers, including Popperians such as Watkins, fail to see that there is any 43
 44 difference that makes any difference. The difference made, I have suggested, is a very 44
 44 important difference of aspect. 44

1 'theory' at all. Similarly, the whole Davidson-based critique of Kuhn et al suddenly 1
 2 looks much less relevant: Because it had *assumed* that incommensurability had to 2
 3 be a matter of semantic *content*. A *what*. It omitted a possibility: that what was lost 3
 4 was more akin to *style*, or to a whole *way* of seeing/doing. A way of *taking* the 4
 5 world. Something more processual, more like a style: something more how-like 5
 6 than what-like. 6

7 Sapir-Whorf tried to express this, but ultimately blundered: they ended up 7
 8 converting the differences between radically different 'world views' into something 8
 9 that itself could allegedly be *seen*, or indeed relatively-straightforwardly *said*. No: 9
 10 if you turn the how of such radical difference back into a what, back into a *content*, 10
 11 then indeed you end up mired in a theoretical stance, semantic relativism, and are 11
 12 justly eliminated by Davidson et al. But this wasn't where *Kuhn* ends up. 12

13 Kuhn has a 'view' with far less in the way of dogmatic theoretical commitments 13
 14 than most of his opponents have presumed. Thus those opponents of his have 14
 15 almost all failed actually to come to grips with the subtle and modest view (or 15
 16 non-view – it certainly isn't well described as a *position*, or a *doctrine*, or a *theory*, 16
 17 at any rate) which Kuhn actually has. They have spoken past him, and failed to 17
 18 contradict him. If Kuhn is read as I suggest he should be, as someone reaching 18
 19 for the kinds of felicitous formulations which were perhaps more often found in 19
 20 Wittgenstein, and not in abstraction from the lessons concerning the history of 20
 21 science that, *via* certain 'exemplars', he wishes to teach, then he has a lot to offer. 21
 22 He neither self-refutes nor is refuted by his opponents in the philosophy of science. 22
 23 For, after all, he cannot refute himself nor be refuted *if he doesn't have a 'position'*. 23

24 This is the real challenge: not to insist that Kuhn be read as having a *position* 24
 25 (be it 'relativist' or otherwise) *at all*.¹⁶ I believe that a full understanding of Kuhn 25
 26 (of who Kuhn is, at his best, as someone with 'something' new to say) leaves one in 26
 27 something like the non-theoretical non-position of Wittgenstein. This non-position 27
 28 seems to some a wilful and culpable 'quietism',¹⁷ or a continuing ambivalence 28
 29 which must be settled: 'Are you a relativist or a realist, or somewhere in between? 29
 30 *Decide!*' Thus Wittgenstein is sometimes accused of being ambivalent between, 30
 31 on the one hand, the kind of 'conceptual relativism' allegedly present in any talk of 31
 32 'the formation of concepts different from the usual ones'¹⁸ and, on the other hand, 32
 33 an quasi-Davidsonian 'anti-relativism.' This latter 'position' is allegedly present in 33
 34 _____ 34

35 _____ 35
 36 16 It is peculiarly difficult to succeed in being read in this way, as not committed 36
 37 to a 'position', for reasons that Wittgenstein's 'therapeutic' approach and McGilchrist's 37
 38 'right-brained' approach make clear: According to the left-brain, according to the thesis- 38
 39 driven, more-or-less 'analytic' philosopher, according to the would-be normal-scientist, it 39
 40 is impossible for there to be any such non-position. It just makes no sense; there is no *room* 40
 41 for it and no calling for it. Thus again and again, Kuhn is read *through the left-brain*; and 41
 42 again and again then he fails to be understood. 41

42 17 For rebuttal of the charge, see Cerbone's essay in Crary and Read (2000). 42

43 18 As quoted earlier, from page 230 of [Part II of] PI: ' .if anyone believes that 43
 44 certain concepts are absolutely the correct ones, and that having different ones would mean 44

1 Wittgenstein's famous remark that 'If language is to be a means of communication 1
2 there must be agreement not only in definitions but also ... in judgements' (*PI* 242). 2
3 It is sometimes thought that the kind of agreement 'transcendentally' required by 3
4 the latter rules out the kind of deep conceptual differentiation seemingly allowed 4
5 for in the former. 5

6 I see no such contradiction. *PI* 242 consists of grammatical remarks, which 6
7 is to say, reminders for *particular* purposes. If one is talking with someone who 7
8 thinks that our concepts could or must be 'absolutely the correct ones' and thinks 8
9 that it makes sense to compare our concepts with reality, then it may be wise to 9
10 cite Wittgenstein on the formation of (different) concepts. If one is talking with 10
11 someone who thinks that there can be complete, pervasive, total breakdowns of 11
12 communication, of the kind suggested by some Sceptics, Solipsists or Relativists, 12
13 someone who thinks that there can be no comparison of one person's or culture's 13
14 concepts with another, then it may be wise to cite Wittgenstein on agreements 14
15 in judgement (though see also 2.2, below, for a possible exception to test this 15
16 rule with). Such citations would be the starting-points in discussions, attempts to 16
17 mutually comprehend. 17

18 Kuhn mostly found himself writing in an intellectual *milieu* in which the 18
19 dominant 'positions' were cumulativist or correspondencist or both. So he spent 19
20 most of his time doubting that our concepts were or even could be absolutely the 20
21 correct ones, as it were. But that strategic decision, which perhaps he regretted 21
22 later in life, no more makes him a Relativist than it does Wittgenstein (or Winch). 22

23 For, take the wonderful remark of Wittgenstein's from *Culture and Value* that 23
24 what a Copernicus or a Darwin really offered us is best-seen as not a true scientific 24
25 theory but a fertile new point of view. A new *way* of seeing, a new set (as Lakoff 25
26 and Johnson might put it) of live metaphors. A new... *world*.¹⁹ That is what Kuhn 26
27 was talking about in his self-awarely-paradoxical invocations of 'new worlds'; 27
28 and that is what is of the essence of what I offered here in 1.3. 28

29 And so we see that the structure of Sections 1.2 and 1.3 has been thus: Firstly, 29
30 in (1.2), I went with the philosophical flow, and took a 'strong' construal of Kuhn's 30
31 'incommensurabilism' on board. On this construal, taking for example the phrase 31
32 'partial communication' in a semantically 'straightforward' fashion, I established 32
33 that Kuhn's 'relativism' would self-refute. Now, in 1.3, I have offered a 'deflationary' 33
34 way of taking Kuhn that disposes of the common misconceptions of him by offering 34
35 a better alternative, a genuinely charitable and useful way of reading him on 35
36 incommensurability. On this construal, taking 'partial communication' as connoting 36
37 not an irrevocable semantic barrier, but rather important 'non-semantic' aspects of 37
38 language-use, I established what we might actually take the *point* of Kuhn's talk of 38
39 39

40 40
41 not realizing something that we realize – then let him imagine certain very general facts of 41
42 nature to be different from what we are used to.' 42

43 19 See 1.1 above; and Chapter 4 of McGilchrist (2009), on how only the right-brain 43
44 can give us a new world, and a different world from that of the left hemisphere. 44

1 ‘incommensurability’ to be.²⁰ Beyond obsessions with semantic content, and with
 2 ‘left-brain’ scientific reductions of Kuhn’s methodological reorientation into mere
 3 ‘semantic relativism’.

4 One might choose to express this point as follows: Kuhn has a very modest
 5 ‘relativism’ about truth (i.e. he finds no positive use in the philosophy of science for
 6 talk of ‘correspondence’ or ‘verisimilitude’); Kuhn has a very modest ‘relativism’
 7 about meaning (i.e. while no relativist about ‘meaning as such’, he could be said
 8 to be one about ‘connotations’ or ‘grammatical effects,’ those aspects of words
 9 which amount to the ‘atmosphere’ or ‘feel’ of a thought-style); Kuhn has a very
 10 modest ‘relativism’ about rationality (i.e. while he thinks the *concept* of rationality
 11 is clearly directly positively applicable to virtually all scientists, he also thinks
 12 that different *conceptions* of rationality operate in different paradigms).²¹ One
 13 might choose to express my point thus; or one might not. One might simply say,
 14 instead, that Kuhn instantiates a non-theoretical mode of philosophising which
 15 sits ill with any attempt to pigeon-hole it within tired philosophical categories
 16 such as ‘realist’ and ‘relativist’. That a proper understanding of the point of talk
 17 of ‘incommensurability’ goes beyond what friends or foes of ‘relativism’ have
 18 comprehended.

19 Great philosophers invite us to *reconsider our categories*. Scientific
 20 revolutions, Kuhn argues, invite or require scientists to do the same. This
 21 is perhaps the deepest sense in which Kuhn’s thought on science actually *can*
 22 productively and unmisleadingly be applied to his own work. Kuhn is inviting us
 23 to reinvent the philosophy of science, largely by means of re-imagining the history
 24 of science. Only those who would resist his revolution by any means necessary
 25 should really want to slot him into categories with which we were familiar before
 26 his time (e.g. categories such as ‘relativist’). When Kuhn wrote *SSR*, not ‘all
 27 the relevant conceptual categories were prepared in advance’ (*SSR*: 55). If the
 28 Kuhnian revolution in philosophy of science is to be realised, we all need to stop
 29 trying to pretend that we know into which pre-prepared category (*if any*) Kuhn
 30 can be said to fit.

31 Section 1.2 was entitled ‘Kuhn and incommensurability: an interpretation.’
 32 It now becomes starkly evident that the interpretation I offered there *is not an*
 33 *interpretation I endorse*. It is a widespread interpretation, an attractive one. I
 34 inhabited it, *in an endeavour to exhaust that attractiveness*.

35 The current Section is called ‘Wittgenstein and Kuhn on incommensurability:
 36 the view from inside.’ Here, I have offered a Wittgensteinian take, parallel to and
 37 extending that offered in Sharrock and Read (2002), of how Kuhn’s concept of
 38 ‘incommensurability’ functions as a way of enabling the reader to understand
 39

40 20 Furthermore, I take this to have been almost entirely unrecognised in the Kuhn
 41 ‘literature’ to date.

42 21 One might add to these, as suggested much earlier: a very modest ‘meta-
 43 relativism’, i.e. a modest ‘relativism’ as a hermeneutic strategy, as a research strategy. This
 44 basically amounts to the overcoming of ‘whiggism’.

1 ‘from the inside’ conceptually-surprising phenomena such as scientific revolutions. 1
2 (From inside the change in, as we might put it, *form of life* that such phenomena 2
3 necessarily involve... – see the epigraph that opens this section). 3
4 My effort in 1.2–1.3 has involved, *in toto*, a (parallel) form of understanding 4
5 ‘from the inside’: I have endeavoured, as I did not in my *Kuhn*, to offer the reader 5
6 an understanding *from the inside* of the attractions of reading Kuhn as a semantic 6
7 relativist, and (thus) a practicable way of genuinely overcoming those attractions. 7
8 Thus the design of this Part has itself (thus far) been thoroughly therapeutic in 8
9 conception: having set out a radically Wittgensteinian vision of Kuhn in 1.1, I have 9
10 endeavoured radically-therapeutically to defuse the primary obstacle to accepting 10
11 it: the ongoing attractions of the popular ‘irrationalist’ / ‘semantic relativist’ 11
12 reading of Kuhn. By the time one reaches this point, the end of 1.3, one is perhaps 12
13 – I hope – ready to *accept* a Wittgensteinian way with Kuhn, and Kuhn as a kind 13
14 of proxy for Wittgenstein *vis-à-vis* the sciences. 14
15 This gives one a platform from which to start to look at the non-natural 15
16 sciences. And one reason that this is important is that, beyond Empiricistic etc. 16
17 fantasies of ‘common measure’, what ‘incommensurability’ has to offer us is: an 17
18 *understanding* of the kinds of cases in which understanding is genuinely hard, and 18
19 not a matter of mere theory-building, nor of acquiring ‘more data’, etc. (I explore 19
20 in detail some such cases in 2.1–2.3, below.) 20
21 For, understanding Kuhn aright, finding him a kind of ‘Wittgenstein’ among 21
22 the (natural) sciences, and seeing him as offering us our best picture of the nature 22
23 of science, we place ourselves ideally to understand the ‘sciences’, if such they 23
24 are, that concern human understanding: namely, the ‘human sciences’. We are 24
25 well-placed to approach them in their individual specificity and in their possible 25
26 difference from the cases with which Kuhn himself was focally so brilliantly 26
27 concerned. Thus armed, it is to them that I will shortly turn after two more shorter 27
28 sections, which will aid that turn: Beginning, in 1.4, by looking at Kuhn once more 28
29 on this central concept of his, incommensurability – but this time, the apparently 29
30 different and comparatively neglected ‘incommensurability of [scientific] values’. 30
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1.4 Values: Another Kind of Incommensurability?: On Incommensurability of *Values* in Science¹

I am suggesting ... that the criteria of choice ... function not as rules, which determine choice, but as values, which influence. Two men deeply committed to the same values may nevertheless, in particular situations, make different choices as, in fact, they do. But that difference in outcome ought not to suggest that the values scientists share are less than critically important either to their decisions or to the development of the enterprise in which they participate. Values like accuracy, consistency, and scope may prove ambiguous in application, both individually and collectively; they may, that is, be an insufficient basis for a shared algorithm of choice.

Thomas Kuhn, *The Essential Tension*, 'Objectivity, value-judgement and theory-choice', page 331.

I have so far considered in full detail the philosophically-'radical' and potentially-problematic form of 'incommensurability' for which Kuhn is most famous, incommensurability to do with meaning, *etc.* But (perhaps especially in light of the very serious doubts raised in Sharrock and Read (2002) and in 1.1 and 1.3 above, about whether Kuhn, except possibly in certain incautious formulations (which are transcended as one comes to understand better what he is really about) really *is* a semantic incommensurabilist after all), it might be asked whether there is not another, rather different, kind of incommensurability that actually is to be found in Kuhn's work. This is the kind of incommensurability which is quite widely discussed in Moral and Political Philosophy (and in Economics) – incommensurability of *values*.

In other words, say, not the question of how / whether two people can *understand* each other, but the question of whether what two people *believe in* can be intelligibly given a common measure, can be 'reconciled'. The importance of considering this for the general approach of the book is once again to make clear how Kuhn is no Relativist theorist, and thus to head off pre-emptively a potential profound misunderstanding of Part 2 of the book (as a set of exercises in Relativism).

Now, the reason for thinking that this question is of importance in relation to Kuhn's work is that Kuhn himself, in at least one point in his work, explicitly

¹ Many thanks to Fred D'Agostino, whose work and words provided the inspiration for this Section. Thanks also to the late Nadine Cipa and to Wes Sharrock.

1 and in detail discusses the operation of different values in science, in scientists' 1
 2 determinations of what to believe, assert, and do. In his major essay 'Objectivity, 2
 3 Value Judgement and Theory Choice',² Kuhn tries out a list of the values which 3
 4 scientists use and perhaps require in making choices between theories. His 4
 5 preliminary list is of five such values: 5

- 6
- 7 1. Accuracy, 7
- 8 2. Consistency (both internal and more general), 8
- 9 3. Simplicity 9
- 10 4. Scope 10
- 11 5. Fruitfulness. 11

12 12
 13 Kuhn is here, as he makes quite explicit, not differing from the best of the traditional 13
 14 historians or philosophers of science to any very great degree. Indeed, in this paper, 14
 15 he is trying fairly self-consciously to appear 'modest' and 'moderate', unlike his 15
 16 'Kuhnian' followers. This is perhaps partly why the paper appears, from my point 16
 17 of view, slightly methodologically 'conservative'. It does not entirely stick to the 17
 18 negative philosophical hard-line that I would argue characterises most of *SSR*, but 18
 19 sometimes makes forays into slightly more traditional questions in the 'applied' 19
 20 sociology and psychology of science – e.g. the quasi-Functionalist question of 20
 21 what kind of looseness of criteria for evidence or theory choice is most conducive 21
 22 to the structuring of an effective scientific community. 22

23 Having said this, it is very important not to be overly affected by Kuhn's 23
 24 apparent 'conservatism' in this paper. One way of avoiding such an error is by 24
 25 noting clear-headedly the way that Kuhn ends the paper – with several pages of 25
 26 discussion of how, really, his discussion should be radicalised by reading into it 26
 27 various points he makes elsewhere: 27

28 28
 29 I have throughout this paper utilized some traditional concepts and locutions 29
 30 about the viability of which I have elsewhere expressed serious doubts. For 30
 31 those who know the work in which I have done so [chiefly, in *SSR*], I close 31
 32 by indicating three aspects of what I have said *which would better represent* 32
 33 *my views if cast in other terms*, simultaneously indicating the main directions 33
 34 in which such recastings should proceed. The areas I have in mind are: value 34
 35 invariance, subjectivity, and partial communication. (*ET*: 334, italics added) 35
 36 36

37 Kuhn's criterion of 'fruitfulness' is the only novelty on the above list, if there is 37
 38 one. Kuhn goes on to remark as follows (and it is here that I find his real novelty 38
 39 compared to the tradition): 39

40 40
 41 41
 42 42
 43 _____ 43
 44 ² This essay can most conveniently be found in Kuhn's *The Essential Tension* 44
 (Chicago: U. of Chicago, 1977), henceforth *ET*.

1 [T]wo sorts of difficulties are regularly encountered by the men who must use 1
 2 these criteria in choosing, say, between Ptolemy's astronomical theory and 2
 3 Copernicus's, between the oxygen and phlogiston theories of combustion, or 3
 4 between Newtonian mechanics and the quantum theory. Individually the criteria 4
 5 are imprecise: individuals may legitimately differ about their application to 5
 6 concrete cases. In addition, when deployed together, they repeatedly prove to 6
 7 conflict with one another. (ET: 332) 7

8
 9 The second point is of course very important, as Kuhn goes on to make clear. But 9
 10 in the first instance it is the first point that most interests me, in the present context. 10
 11 That the criteria are ambiguous and open-ended, and, moreover, that this may 11
 12 not even become known or evident, because, of course, scientists do not spend 12
 13 their time settling with each other definitions and applications of terms such as 13
 14 'simplicity', 'fruitfulness', etc. . 14

15 Now, there is something here which seems to satisfy the desiderata with which 15
 16 I opened my discussion. We have here something which is more than mere weak 16
 17 pluralism, more than mere apparent multi-dimensionality, and which resists the 17
 18 move toward a dictatorial value, or a meta-value. In particular, in the first point – 18
 19 that 'the criteria are imprecise' – we have something that looks like involving an 19
 20 incommensurability of values, in that even one value 'itself', let alone the various 20
 21 values in combination, may irreconcilably differ from person to person, from 21
 22 scientist to scientist. 22

23 So, have we found here an instance, a (new) type – perhaps less vulnerable 23
 24 to philosophical critique than that central to most of the discussion in previous 24
 25 sections on *semantic* incommensurability – of incommensurability, *of value*? But 25
 26 perhaps the reader has already anticipated what my reply to this will be. No, there 26
 27 is no real difference in type here. Because this 'incommensurability of value' here 27
 28 is not radically different to what Kuhn *actually* means (as we have discovered, in 28
 29 1.3) by 'incommensurability of meaning'; surely, in fact, this is pretty obvious. 29

30 For: Not being able to give a common measure to two values – how could 30
 31 this idea of (non-) comparison really *not* be intimately related to problems of 31
 32 incommensurability of meaning and understanding, once these are understood 32
 33 aright? If we turn again to Kuhn, we find that precisely one of the main instances 33
 34 of 'incommensurability of meaning' to be found in Kuhn is in the *different* 34
 35 *understandings* of words – e.g. words like 'mass' or 'velocity' – which 'members' 35
 36 of different paradigms have, and indeed which 'members' even of the *same* 36
 37 paradigm have, as they sometimes find to their surprise and cost if and when a 37
 38 crisis erupts! So, if what is meant by 'incommensurability of value' is that words 38
 39 like 'simplicity' and 'consistency'³ 'mean' very different things to different people 39
 40 at different times – against different backgrounds of world-view and paradigmatic- 40
 41 theory, given different temperaments and interests, *etc.* – then, and this should not 41

42 _____ 42
 43 3 Against 'value invariance', Kuhn thinks that these two are the most historically 43
 44 variable – i.e. that what these two terms *mean* has changed very greatly over time. 44

1 I think much surprise one, it turns out that ‘incommensurability of value’ and 1
2 ‘incommensurability of meaning’ are not really much different at all, after all. 2

3 The incommensurability of value consequent upon the clash of different and 3
4 unsumable values involves scientists’ values coming together in more or less 4
5 indeterminate ways (as rules for action, values alone or in combination are, Kuhn 5
6 says, ‘intrinsically incomplete’ (*ET*: 333)) and yet issuing in action. In other words, 6
7 scientists do somehow decide what to do – but why exactly they are doing it is 7
8 potentially just as much up for grabs as what exactly it is they are doing. And one 8
9 can at least say this: that an ‘absolutist’ account, guaranteed in its validity from 9
10 the standpoint of one’s contemporary correct knowledge of the way the Universe 10
11 works, of what they (scientists) are doing *or* of why they are doing it, is surely in 11
12 principle unavailable to one. There is no such thing as *the* correctly-balanced set of 12
13 scientific values, nor even of an absolutely true, ‘perspective-less’, understanding 13
14 of past science. There are only ways of approaching these that help overcome 14
15 actual difficulties that we are having in understanding them. 15

16 In other words: For the same reason that Kuhn (in his most famous work on 16
17 incommensurability) urges us not too quickly to think that we know *what* scientists 17
18 from a defunct paradigm are doing (how it ought to be described), we ought not 18
19 too quickly (drawing now on his thinking about incommensurability of values) to 19
20 think that we know *why* they are doing it. These are really two sides of the same 20
21 coin. Incommensurability in values in science is just another way of looking at the 21
22 way that the world of the scientist (in roughly the kind of way that we also speak 22
23 of ‘the world of sci-fi fans’ or ‘the world of celebrities’) changes when paradigms 23
24 change, and at how when extraordinary science is underway scientists cannot 24
25 guarantee any more that they share a methodology. What a scientific value *means* 25
26 becomes up for grabs, in a situation of paradigm shift. And with that remark, it 26
27 is clear how difficult it is to get a cigarette paper between incommensurability of 27
28 meaning and incommensurability of value. 28

29 These thoughts of mine are buttressed, again, by Kuhn’s thoughts toward the 29
30 close of his paper about the variance over time of values, of their weighting and of 30
31 their *meaning*; and by his thoughts on the sense in which ‘discussions surrounding 31
32 theory choice’ are problematically affected by ‘partial communication’. He disputes 32
33 that ‘the facts appealed to in such discussions are independent of a theory, and that 33
34 the discussions’ outcome is appropriately called a choice.’ (*ET*: 338). Kuhn’s ideas 34
35 seem to stand or fall together: his suggestion of a kind of incommensurability of 35
36 values is not independent of his suggesting an incommensurability somewhere in 36
37 the vicinity of meaning, of paradigms. What Kuhn is about here is simply helping 37
38 us to get clearer, in cases where we may have difficulties, about methodological 38
39 etc. choices that scientists make. 39

40 One needs in all this to beware an over-intellectualist version of scientific 40
41 change and discourse. Kuhn reminds us of the important respects in which 41
42 science (e.g.) does not involve ‘choice’ between theories as traditionally- 42
43 43
44 44

1 construed.⁴ There is no algorithm for scientific change. While those very rare 1
 2 moments when the option of ‘theory choice’ is a live and forced option may 2
 3 be just as often decided by the nitty-gritty of what one has set out to do, what 3
 4 one has a hunch about, what is practical to do with one’s equipment, as it is by 4
 5 recourse to the ‘values’ one is purportedly trying to instantiate in one’s scientific 5
 6 work. Explicit ‘values’ are in the main even more remote from the lived reality 6
 7 of scientific practice than the formalist’s ‘theories’ between which s/he imagines 7
 8 the scientist testing and choosing. (Though of course we should be fully alive to 8
 9 values that are implicit, too: Cf. the epigraph to this Section.) 9

10 So, perhaps it is not so surprising after all that these ‘two’ forms of 10
 11 ‘incommensurability’, traditionally found in very different philosophical 11
 12 ‘literatures’, are in fact best understood as in fact not disjoint at all. We have seen 12
 13 that the ‘incommensurability of values’ is a misleading expression, *unless* that 13
 14 ‘incommensurability’ has significant aspects which *are* in fact broadly-speaking 14
 15 ‘semantic’, or at least are understood as directly analogous in important respects 15
 16 to (what Kuhn actually means, as made clear in 1.3 above, by) ‘semantic’ etc. 16
 17 incommensurability. And in the end this would only surprise someone who failed 17
 18 to understand the following elementary philosophical ‘truths’, ‘truths’ which the 18
 19 work of Wittgenstein, Winch (See Part 2, below) *and* Kuhn reminds us of: 19

- 20
 21 • ‘Knowledge’ and ‘intelligible use of language’ are *normative* (and thus in a 21
 22 sense value-laden) concepts; 22
 23 • Values and beliefs alike are best not identified in the abstract but *in action* 23
 24 (including but by no means restricted to linguistic action); 24
 25 • Human values are of course only identifiable through processes which 25
 26 among other things involve *understanding the meanings* of others’ words 26
 27 and sentences, and understanding the full panoply of associations which 27
 28 make words mean what they do to individuals. 28
 29

30 In short, only a serious failure to comprehend the sense in which values and 30
 31 meanings thoroughly interpenetrate could lead one to assume that it would be 31
 32 intelligible to separate off anything worth calling ‘incommensurability of meaning’ 32
 33 from anything worth calling ‘incommensurability of value’. 33

34 The examples Kuhn attempts to give of the former are examples which we 34
 35 could equally describe (if at all) as examples of people trying to attain different 35
 36 goals (e.g. Ptolemy and Kepler can be well-described as having signally different 36
 37 goals and values, the same with Newton and Einstein, and even with Planck and 37
 38 Einstein); and the examples common in the ‘literature’⁵ of ethical dispute of people 38
 39 having values which deeply and perhaps incommensurably differ are examples 39

40
 41 _____ 40
 41 4 See also my criticisms of the widespread ‘voluntarism’ found in the philosophy of 41
 42 science – see the Conclusion (especially) of Sharrock and Read (2002). 42

43 5 Including in the ‘literature’ critical of Rational Choice Theory – see for example 43
 44 the work of Michael Taylor. 44

1 which may as well be described as examples of people *meaning* irreconcilable 1
 2 things by, e.g. the phrase ‘a good life’.⁶ 2
 3 To assume that ‘semantic’ and ‘value’ incommensurability – the question of 3
 4 someone’s / a community’s theories and the question of radically different sets 4
 5 of values – can be thoroughly separated is, in fact, already *to beg the question* 5
 6 *against* ‘world-views’ which would not wish radically to separate out theories 6
 7 and values (such as the ‘Pragmatist-Wittgensteinian’ worldview). To assume that 7
 8 what is meant by ‘incommensurability of value’ can be something quite other than 8
 9 ‘incommensurability of meaning’ would thus be to beg all the really interesting 9
 10 questions – concerning communities and their differences – that Winch and Kuhn 10
 11 devote themselves to. In the name of clear thinking, logic and rationality, it would 11
 12 *obscure* from view a large *tranche* of human phenomena; including much of the 12
 13 practice of the sciences. 13

14 In conclusion then: Once we have understood the nature of the approach I 14
 15 argued for in 1.1 and 1.3 above aright, we come to see incommensurability of 15
 16 (scientific) values as *naturally* akin to a new way of seeing (and *this*, a new way 16
 17 of seeing and of doing – a new ‘how’, as McGilchrist might put it, rather perhaps 17
 18 than a new ‘what’⁷– is what I have argued Kuhnian incommensurability above 18
 19 all aims to draw one’s attention to). *Not* a new *view*, *not* ‘semantic relativism’ as 19
 20 a theory, but what *matters* in one way of seeing as opposed to in another. *This* is 20
 21 what incommensurability of value is all about. This is how Kuhn’s discussion of 21
 22 it allies it directly and integrates it into meaning-incommensurability as discussed 22
 23 in 1.3 (and 1.1) above – though therefore *not* as such to standard interpretations of 23
 24 ‘the [alleged] incommensurability thesis’. 24

25 25
 26 *** 26
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28 Before turning to Winch *et al*, before turning explicitly to those human phenomena 28
 29 and their understanding and explanation, to ways of seeing and doing, let us take 29
 30 one more final and brief look at Kuhn. In the light of our reflections in Sections 30
 31 1.1–1.4 on paradigm-shifts, what should we say about Kuhn’s ‘model’ of science, 31
 32 Kuhn’s idea of a paradigm? How should we understand the ‘model’ that some 32
 33 have extrapolated to suggest an allegedly Kuhnian way of going about social/ 33
 34 human science? 34

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41 6 For a powerful discussion of perhaps irreconcilable versions of this phrase, 41
 42 see Colin Lyas’s (1999: 91f) account of Peter Winch’s views on the great difficulty of 42
 43 understanding others – their theories and their values. 43

44 7 See Chapters 4 and 5 of McGilchrist (2009). 44

1 1.5 Does Kuhn Have a ‘Model’ of Science? ¹ 1

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4
5 The aspects of things that are most important for us are hidden because of their 5
6 simplicity and familiarity. (One is unable to notice something – because it is always 6
7 before one’s eyes.) ... // Our clear and simple language-games are not preparatory 7
8 studies for a future regularization of language – as it were first approximations, 8
9 ignoring friction and air-resistance. The language-games are rather set up as *objects* 9
10 *of comparison* which are meant to throw light on the facts of our language by way 10
11 not only of similarities, but also of dissimilarities. // For we can avoid ineptness or 11
12 emptiness in our assertions only by presenting the model as what it is, as an object 12
13 of comparison – as, so to speak, a measuring-rod; not as a preconceived idea to 13
14 which reality *must* correspond. (The dogmatism into which we fall so easily in 14
15 doing philosophy.) 15

16 Ludwig Wittgenstein, *PI* 129–131. 16

17
18
19 The question of the present Section is whether it is helpful to see Kuhn as 19
20 having a ‘model’ of science (at least, in anything like the sense of the word 20
21 ‘model’ employed *in* science – in this regard, the present Section builds on the 21
22 argument of 1.2, above, as well as on Wittgenstein’s thinking, as for instance in 22
23 the epigraph above), and of the relation of this to questions of science policy. I 23
24 make herein the suggestion that allegedly Kuhnian relativism or allegedly anti- 24
25 Kuhnian ‘social epistemology’ (which are actually remarkably similar to each 25
26 other...) offer an equal poverty of policy advice, and that a better move is toward 26
27 the thought that Kuhn facilitates for us a good sense of the considerable extent to 27
28 which science (but not technology) thrives on and is entitled to a freedom from 28
29 broader societal dictates. 29

30 As we have seen, especially in Sections 1.2–3, there is no ‘foolproof’ method 30
31 of presenting a set of ideas, especially in an environment where readers are often 31
32 likely to be impatient, casual and unsympathetic. One often cannot blame an 32
33 author for the fact that many readers have been misled by their reading, especially 33
34 insofar as they have been misled by preconceptions that are projected onto, rather 34
35 than derived from, the author in question. Such has tended to be Kuhn’s fate. (For, 35
36 as we saw in 1.1 especially, sympathetic reading can overcome such projections, 36
37 even when (as we saw in 1.2) they are prompted by understandable temptations 37
38 with regard to how to take the text.) 38

39 Let us take as an example Steve Fuller’s (e.g. 2000) lengthy, repeated and not 39
40 unimportant accounts of Kuhn. Fuller, though he may have attempted a more 40
41 ‘rounded’ survey of Kuhn’s background and character than is usual, has been no 41

42 _____ 42
43 ¹ An earlier version of the present section was co-authored with Wes Sharrock. Does 43
44 Thomas Kuhn Have a ‘Model of Science? *Social Epistemology* 17(2), 293–296. 44

1 less impatient, casual and unsympathetic in his reading of Kuhn than have those 1
 2 who, in his view, have – as a result of Kuhn’s allegedly malign influence – taken a 2
 3 wrong turning in their understanding of the political situation of science.² 3

4 In relation to Fuller’s account of Kuhn, as in relation to some others, much turns 4
 5 upon Kuhn’s supposed model of science, especially in the way that it (allegedly) 5
 6 reifies the features of one (relatively brief) period of science into a general model 6
 7 of science. The vast changes which recently, through and after the warfare state 7
 8 of the Cold war, have transformed the context within which science works, do not 8
 9 appear in Kuhn’s account. At best, then, Kuhn’s model of science is seemingly 9
 10 outmoded. 10

11 But simply: does Kuhn *have* ‘a model of science’? Not really. I will not of 11
 12 course deny that there is the simple schematic composed of the terminology 12
 13 Kuhn sets out in *SSR*. Readers of his book seem to think they have adequately 13
 14 understood his ideas if they have (a) read that book and (b) got some handle on this 14
 15 vocabulary. The words ‘paradigm’ (later decomposed into ‘disciplinary matrix’ 15
 16 and ‘exemplar’), ‘normal science’, ‘revolution’ and ‘incommensurability’ are the 16
 17 key words, and the ones on to which most readers settle their attachment, quite 17
 18 unlike Kuhn himself. 18

19 But do these terms comprise a ‘model of science’? For Kuhn himself they 19
 20 are more a ‘heuristic’. They are, we might venture, closer to being a model in the 20
 21 sense of a Wittgensteinian ‘object of comparison’ than to comprising a pseudo- 21
 22 scientific ‘model’. They offer a perspective, a way to see which can bring certain 22
 23 things into prominence, which were heretofore hard to notice. As we saw in 1.2 23
 24 and 1.3, there are serious dangers in thinking of Kuhn’s vision of paradigms and 24
 25 normal science as *itself* constituting a scientific account. *If one takes Kuhn to* 25
 26 *have a model of science, one is covertly taking Kuhn himself to be some species of* 26
 27 *scientist*. We saw, especially in 1.2 (when we tried to apply Kuhn to himself, as a 27
 28 ‘scientist-philosopher’ of science, rather than just a philosopher of science), that 28
 29 this results, ultimately, in disaster. Fuller, like many others, covertly treats Kuhn in 29
 30 this way – and the results are unhelpful and misleading. 30

31 Kuhn’s positing of paradigms as an ‘object of comparison’ for science, which 31
 32 can help to deliver a truer understanding thereof, serves the purposes of (a) 32
 33 deflating the late-empiricist conception of scientific growth and (b) guiding the 33
 34 writing of the history of *singular episodes in the development of science*. Kuhn 34
 35 was sufficiently relaxed about his distinctive terminology to make no use of it in 35
 36 his only major full-length post-*SSR* scholarly study of an historical episode in the 36
 37 development of science, his account of Max Planck’s wrestling with the problem 37
 38 of black body radiation and the ‘quantum’. Soon after its publication Kuhn had 38
 39 to write a supplement to the volume explaining that though the *words* that he had 39
 40 made famous in *SSR* were not to be found in the black-body book, the ideas that he 40
 41 had attempted to express *were*, broadly, present in it. However, the important thing 41
 42 was to avoid converting these into a dogma about the history of science. 42

43 _____ 43
 44 2 In fact, he has been *more* so – see Read (2005). 44

1 Is Kuhn's a quasi-sociological account of science? Kuhn certainly emphasises, 1
 2 as even Popper had done before him, that science is a 'social institution', and 2
 3 that scientific thought can be affected by the nature of the involvement of that 3
 4 institution with the other institutions and the culture of the wider society, as was 4
 5 manifestly the case with respect to the Copernican revolution. Again, though, this 5
 6 point was not to be converted (*pace* the 'Sociology of Scientific Knowledge') into 6
 7 a dogma, for the extent to which the development of scientific thought was directly 7
 8 and strongly shaped through the influence of extra-scientific social forces *was* 8
 9 *quite variable*, depending upon the configuration of social, cultural and scientific 9
 10 situations. There was a tendency for the degree of influence from 'the social' (in 10
 11 the sense of the wider sociocultural context) *onto the content of paradigms* to 11
 12 diminish in proportion to the (associated) increase in the technical character of 12
 13 the problems and in the professionalisation of the field around a paradigm. The 13
 14 difference between the two cases is manifest in the contrast between Kuhn's own 14
 15 *The Copernican Revolution* and his work on Planck, for while the former makes 15
 16 much play with broader cultural influences on astronomy, the latter encompasses 16
 17 little of the 'sociocultural' kind, save the difference that being expressed by an 17
 18 established figure can make to the acceptance of an idea. Kuhn also stressed – 18
 19 but did not especially follow up – the point that science involves more than just 19
 20 theories and ideas, that the development *of instrumentation* for empirical work is 20
 21 an important element in the development of science. 21

22 Whatever avenues might have been thereby opened up for 'sociological' 22
 23 treatment, Kuhn retained a focus on his own project, which was – consistently 23
 24 throughout his career – what at one point he identified as understanding 'change 24
 25 in scientific belief'. Understanding the nature of conceptual change (in science). 25
 26 But what kind of problem is this? Is it an empirical-cum-sociological one, or is it 26
 27 a philosophical one? It was *always* a philosophical/methodological one, though it 27
 28 was only latterly that Kuhn came to regret that he had spent more time than he now 28
 29 thought was strictly necessary on his historical concerns. This goes against the 29
 30 idea that Kuhn's 'model' was an invitation for historical / sociological elaboration, 30
 31 but leaves this question: what is the relation between the empirical / historical and 31
 32 the philosophical here? 32

33 Sociologists and historians might understand Kuhn as asking an empirical / 33
 34 causal question: What are the *causal conditions* for a change in scientific belief 34
 35 - what conditions will bring an area of science into a state of crisis, and what 35
 36 conditions will determine the way in which the crisis is resolved? What, e.g. will 36
 37 determine which party will be victorious in the revolutionary struggle? Given, of 37
 38 course, that one can find instances of crisis, revolution and so on. 38

39 I would not want to insist that Kuhn does not make (occasional, sometimes 39
 40 casual) causal comments of this kind, nor need I do so, to make my point, 40
 41 which is that Kuhn's problem is fundamentally not empirically causal in this 41
 42 sense, but is philosophical/methodological in nature. His inquiry into 'change of 42
 43 scientific belief' centrally asks *this* question: what *kind of change* is a change in 43
 44 scientific belief. It is, therefore, historical examples of instances of change that 44

1 do not provide *evidence* for the testing of Kuhn's (causal) claims, but *material* 1
 2 *for reflection* upon *what we can intelligibly say* about the kind of changes that 2
 3 ensue from the appearance of a piece of 'revolutionary science'. The mainspring 3
 4 of Kuhn's career is then his insistent denial that the succession of scientific ideas 4
 5 involves a logically continuous replacement of earlier by later, thus giving pride 5
 6 of place to the theme of incommensurability (as explicated in 1.3–4, above), and 6
 7 the attempt to specify the kind(s) of discontinuity involved. 7

8 Put another way: if a new scientific idea is not logically compelling, then what 8
 9 kinds of attractions can give it appeal? Whilst recognising that an idea may appeal 9
 10 to a diversity of preferences – religious, ideological, aesthetic and so on (see also 10
 11 1.4, above, on this) – and stressing that these might be decisive to the adoption of 11
 12 the idea in a particular case, Kuhn nonetheless centres attention on the preferences 12
 13 that pertain to an idea's scientific status. The question is, again: *what kind* of 13
 14 change is involved, what standards are used in science to assess progress there? He 14
 15 maintains that the requirement for fundamental change is not primary (hence the 15
 16 concept of normal science) and determinedly outlines the 'normal' achievements 16
 17 of science, such as determining fundamental constants, increasing precision and 17
 18 the like. 18

19 I am not arguing about the specifics of Kuhn's case, here, but about its *character*. 19
 20 It points to factors which have determined the course of (a) science or the outcome 20
 21 of certain revolutionary struggles, but it makes no particular attempt to give a 21
 22 systematic account of the forces – 'external' or 'internal' – that direct the course 22
 23 of science. It is not that kind of inquiry, but one that centres on the specification 23
 24 of what is involved (in the sciences) in identifying one piece of scientific work as 24
 25 an advance over another, identifying the main bases on which such a judgement 25
 26 is made. The appreciation that the science is predominantly a matter of problem 26
 27 solving (under conditions of normal science, of the sub-type 'puzzle solving') and 27
 28 that an important element in the appeal of a new idea is its capacity to 'raise the 28
 29 game' and present more demanding problem-solving challenges means that there 29
 30 will be a tendency – across areas of science – for the level of work to become more 30
 31 sophisticated and technically difficult. 31

32 Further, the long term development of the natural sciences has resulted in 32
 33 proliferation, and in accumulation of a very substantial – very detailed, and very 33
 34 technical – knowledge of nature, in significant part as an outcome of the puzzle- 34
 35 solving, paradigm-shifting nature of the exercise. Such long-term development 35
 36 has seen change in the institutional setting of science, changes in the balance 36
 37 between science and other cultural systems within the societies of the west, in 37
 38 the organisational settings of scientific workers, in the social location and status 38
 39 of those who become scientists, in the connections between science and other 39
 40 organisations in the society – universities, companies, the state – but – if Kuhn's is 40
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1 a reasonable description – then the pattern of paradigm-shift is one that is entirely 1
 2 compatible with substantial changes in the institutional form of scientific activity.³ 2
 3 It would not be in the spirit of Kuhn's treatment of his scheme as a heuristic to 3
 4 convert it into a dogma that would insist that scientific development *must* continue 4
 5 to follow the pattern of paradigm-shift (after all, Kuhn himself points out that 5
 6 some areas of science do cease to change in this way, and 'become engineering'). 6
 7 However, while it is entirely possible that there may be changes in the nature of 7
 8 *natural* science that bring to an end the pattern that Kuhn describes, nevertheless, 8
 9 were that to happen it would not invalidate Kuhn's account. If scientific paradigm- 9
 10 shifts ceased to take place or ceased to involve the kinds of preferences that Kuhn 10
 11 identifies, then change would no longer conform to Kuhn's so-called 'model', but 11
 12 that would not of course mean that it *never* did so. 12

13 There have been massive changes in the institutional structure of science 13
 14 throughout the twentieth century and on to the present day. The fundamental 14
 15 changes in physics at the beginning of the twentieth century are perhaps the most 15
 16 fundamental changes in the nature of physical sciences during that time (which, 16
 17 rather than any nefarious political evasiveness, as wildly and conspiratorially 17
 18 alleged by Fuller, might explain Kuhn-the-historian's interest in this period), 18
 19 marking a fundamental change in the very nature of physical science, and – 19
 20 eventually – giving great impetus to the institutional shifts that have taken place, 20
 21 especially the involvement of science with military and state secrecy, not to 21
 22 mention the massive growth of the universities, and the increasing incorporation 22
 23 of science into commercial laboratories. However, there is no clear or substantial 23
 24 reason to suppose that these changes have made a difference to the issues which 24
 25 were the central focus of Kuhn's concerns, the characterisation of the grounds 25
 26 upon which an area of *science* will fundamentally change its loyalties. The fact 26
 27 that military or commercial preferences might sometimes be important drivers 27
 28 – along with, though perhaps in the contemporary world, instead of, religious 28
 29 and ideological ones – of scientific direction may be a valid observation, but it 29
 30 is already accommodated in Kuhn's observation on the role of extra-scientific 30
 31 influences upon the balance of preference within a scientific grouping. It is not 31
 32 easy – and perhaps impossible – to uniquely extrapolate from Kuhn's 'model' 32
 33 any conclusions about the significance of such institutional changes for natural 33
 34 science as problem solving, nor can one extrapolate from it Kuhn's personal views 34
 35 on these matters. 35

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3 Note that, while this is largely so for science, it does not follow that it is so for
 technology. The trajectory of development in genuine sciences probably remains very
 largely Kuhnian, even under corporate near-domination; but technologies and forms
 of engineering (e.g. Genetically Modified food) may be much more open to ideological
 direction in very roughly the manner that Fuller depicts. One interesting question about the
 development of some human sciences, e.g. economics, is whether they tend in fact more to
 the character of technologies than of sciences, in this respect.

1 One final observation: Kuhn emphasises that the natural sciences tend to 1
 2 become very detailed, and very technical. He (rather regretfully) notes that there 2
 3 may be a price to pay for the knowledge of nature that has been acquired, in 3
 4 terms of the exclusion of laypeople from a proper understanding of what goes 4
 5 on in any reasonably advanced area of science. The increasing professionalism 5
 6 of an area of (natural) scientific work is presumably as much a consequence of 6
 7 the access-restricting feature of front-line scientific work, that it typically – if 7
 8 not quite invariably – requires intense familiarity with the work-and-results-so- 8
 9 far, which work and results are packaged in highly technical forms, as it is that 9
 10 which produces the exclusiveness. There is nothing to stop anyone accessing the 10
 11 major journals for any significant field of scientific work. Whether they could then 11
 12 read them is another question. The exclusion works both ways, of course, for the 12
 13 obvious reciprocal of Kuhn’s point is that the scientists themselves are, outside 13
 14 the area of their special and specific competence, only just more members of the 14
 15 society. 15

16 So, ‘scientists’ in general can claim no monopoly of competence on how 16
 17 to politically control science. One does not have to choose between them (‘the 17
 18 community of scientists’) on the one hand and the new rhetoricians of the 18
 19 ‘construction’ of science, namely the so-called ‘social epistemologists’, on the 19
 20 other. Rather, science policy must always be a matter of the reconciliation of a 20
 21 very specific scientific specialism on the one hand and the social polity as a whole 21
 22 on the other. Kuhn’s adaptation of Conant has offered one of the very best ways 22
 23 ever devised for some at least of the polity to be educated as to the actual nature 23
 24 of scientific change.⁴ 24

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28 Our ‘account’ of Kuhn as a Wittgensteinian among the (natural) sciences is now 28
 29 complete (or at least: as complete as it is going to get). We can turn our attention 29
 30 explicitly now to what has already clearly crept into this Part as an emergent topic 30
 31 of interest: the question of how a Wittgensteinian sensibility should be manifested 31
 32 among the ‘human sciences’. Especially, among those disciplines keenest to 32
 33 portray themselves as inheriting / wearing a true scientific mantle. My approach 33
 34 in this Section already suggests one way in which the present work will undercut 34
 35 35

36
 37 4 Fuller’s attempt to poison Kuhn’s reputation, through bizarre and unsubstantiated 37
 38 claims as to Kuhn’s alleged hidden political agenda, was presumably designed to undermine 38
 39 the possibility of people learning from Kuhn about the history and philosophy of science. 39
 40 That is one reason among many why I agree with Thomas Uebel, in his masterly paper 40
 41 demolishing the pretensions of the totality of Fuller’s recent writings of science, ‘The 41
 42 poverty of ‘constructivist’ history (and policy advice)’, (In M. Heidelberger and F. Stadler 42
 43 (eds), *History of Philosophy and Science* 2002, pp. 379–389) that it would be a terrifying 43
 44 thought that someone like Steve Fuller might nowadays be giving a lead in matters of 44
 44 science policy. 44

1 that ambition: by urging that it is not in the final analysis helpful to cast philosophy 1
2 itself as science. If, as Peter Winch explicitly argues, 'social science' itself is 2
3 to some considerable extent philosophical in character (in his famous phrase: 3
4 'misbegotten epistemology'), then we already see here one powerful reason for 4
5 positing a totally different character to social etc. science than to natural science, 5
6 and for worrying about whether the use of the appellation science then in that 6
7 context is more misleading than helpful. 7

8 Let us then turn explicitly to examining Winch and how to be a Wittgensteinian 8
9 among the human sciences. To facilitate the transition, there follows a short 'Inter- 9
10 Section', standing back momentarily from the concerns of either Part of the book 10
11 considered by itself. 11

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Inter-Section: An Outline

Wittgensteinian Elicitation of Criteria

9 This little interlude, aiming explicitly to bridge from Part 1 into Part 2, consists 9
10 of a schematic Wittgensteinian elicitation of criteria *vis-à-vis* a number of words 10
11 / concepts that have already pre-occupied us above, and/or that will do so in 11
12 what follows. Consider then the following terms, almost but obviously not-quite 12
13 randomly-selected: *language, game, science, money, chair, bird, seeing, seeing-as.* 13
14

- 15 • *Language*: This, as was mentioned much earlier, is Wittgenstein's key 15
16 example in (the early parts especially of) *Philosophical Investigations*. 16
17 He invites one to consider a sequence of ever-complexifying possible for- 17
18 instances of language (beginning with the seemingly ultra-simple / 'basic' 18
19 case of the 'builders', in *PI* 2). The question he invites one to address, 19
20 again and again, is the following therapeutic reader-oriented question: 20
21 Is *this* enough to lead you on reflection to want unqualifiedly to use the 21
22 term 'language' as a name /a descriptor? Or *this*? Or *that*? And in fact 22
23 this process proceeds right through the book: very notably, in relation to 23
24 so-called 'private language'. As Wittgenstein's subtle complexification 24
25 proceeds, one comes to notice features of putative languages that seem 25
26 important to their *being* usefully adjudged languages: viz., a certain *size* (a 26
27 certain 'bigness'), some element of *reflexivity* and *normativity*, etc. . 27
- 28 • *Game*: This case of course is very explicitly addressed by Wittgenstein, in 28
29 section 65f. of *PI*. As part of his concomitant investigation of what criteria 29
30 one will actually all things considered assign to 'language', Wittgenstein 30
31 points up how 'game', and by analogy 'language', is a much-less unified 31
32 concept than we are inclined to think (though his analysis is *not* a nominalist 32
33 one: The crucial final sentences of *PI* 65 are often neglected: 'Instead of 33
34 producing something common to all that we call language, I am saying 34
35 that these phenomena have no one thing in common which makes us use 35
36 the same word for all, – but that they are related to one another in many 36
37 different ways. And *it is because of this relationship, or these relationships,* 37
38 *that we call them all 'language.'* (Emphasis added.)) 38
- 39 • *Science*: Somewhat similarly: There are very different types of things that 39
40 surely are sciences. Think for instance of botany. More, probably, than 40
41 'language' or 'game', 'science' is also a *value-term*, an honorific. Perhaps 41
42 like with 'language', a certain 'size' seems a pre-requisite for a happy 42
43 application of the term 'science', too. In the light of Part 1, I hope it is clear 43
44 how Kuhn's highlighting of paradigms and exemplars can help one to reach 44

- 1 a state of some peace with regard to thinking about how and when to apply 1
 2 the word ‘science’; and how further examples/comparators may (in Part 2
 3 2) help us gain further clarity, about some of the more contested cases, as 3
 4 emerge for instance in some of the following: 4
- 5 • *Money*: ‘Money’ is an ultra-functional term: Money is as money does. It 5
 6 is as we might put it saturated or constituted by its social role. It is thus 6
 7 also thoroughly reflexive. (As I suggested in the Lecture-Transcripts above, 7
 8 and shall follow up in 2.4 below, this makes money a poor candidate for 8
 9 scientisation.) 9
 - 10 • *Chair*: ‘Chair’ is an artifactual kind (to use Nelson Goodman’s useful term). 10
 11 It is a fairly function-based term, and chairs are prototypically designed. 11
 - 12 • *Bird*: ‘Bird’ is an example of a term that can perhaps be harmlessly and 12
 13 usefully scientised. Then (but not before) it has sharp criteria demarcating 13
 14 it from other ‘natural kinds’. *Once* it has such sharp criteria, a Roschian 14
 15 schema for it is a complete irrelevance, a point unfortunately rarely 15
 16 noted. Considered as an evolutionary natural kind,¹ things either are or 16
 17 not birds. It is only when considered as an ordinary language kind or as a 17
 18 ‘psychological’ kind that it could conceivably make any sense at all to ask 18
 19 ‘Is this a typical bird?’ And even then, such questions are always in danger 19
 20 of toppling into the kind of absurdity that such decontextualised questions 20
 21 continually court, at least if the answers to them are supposed to tell us 21
 22 anything whatsoever about the criteria for the correct application of the 22
 23 concept of ‘bird’.² 23
 - 24 • *Seeing*: Like with many concepts, it is important to observe a fairly sharp 24
 25 distinction between metaphorical and literal uses of this term. ‘Seeing’ is a 25
 26 very widespread term of our ordinary language. 26
 - 27 • *Seeing-as*: This is a much less ordinary term, though still one capturing or 27
 28 aiming to bring into prominence an ordinary and familiar experience. It too 28
 29 will be used as the basis of a theoretical construction only at some peril. For 29
 30 its ‘home’ is in a very specific set of applications; it was *designed* to bring 30
 31 into prominence a non-ubiquitous phenomenon. 31

32
 33 One should, I suggest, see quite a lot of what has preceded this Inter-Section and 33
 34 of what follows it as filling out, testing, greatly expanding and using some such 34
 35 elicitation as that gestured at here. But to remind you of what I tried to stress in the 35
 36 Preface, above: *it is ultimately you who has to elicitate*, to fill out and test. This 36
 37 book is about Wittgenstein and me *and you* among and between the sciences (and 37
 38 the ‘sciences’). 38

39
 40 _____ 40
 41 1 Of course, a wrinkle here is that there is a difficulty with the very idea of 41
 42 ‘evolutionary natural kinds’ because species don’t have hard edges, especially not hard 42
 43 temporal edges. 43

44 2 For detailed argumentation to this effect, challenging the Roschian ‘paradigm’ on 44
 Wittgensteinian grounds, see Read (2005). 44

1	The reader needs to find themselves in the investigations undertaken here;	1
2	anywhere I try to force you to go I <i>ipso facto</i> have no authority in ...	2
3	Onwards, then, to Part 2, for the elicitation and clarification etc. that may occur	3
4	there, among the human sciences.	4
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PART 2

Wittgenstein, Winch and
'Human Science'

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*Putting a Wittgensteinian Methodology to Work among
Psychology, Psychiatry, Economics, etc.*

The left hemisphere's lack of concern for context leads to two important consequences, each of which makes its version of reality more dangerous and simultaneously more difficult to resist. The appropriateness or otherwise of applying scientism to one field of human experience rather than another – Aristotle's perception – is disregarded, since to understand that would require a sense of context, and of what is reasonable, both of which, from the left hemisphere's point of view, are unnecessary intrusions by the right hemisphere on its absolute, non-contingent nature, the source of its absolute power. At the same time, science preached that it was exempt from ... historicisation of contextualisation ..., a way of enabling science to criticise all other accounts of the world and of human experience while rendering itself immune to criticism.

Iain McGilchrist, *The Master and his Emissary*, page 385.

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1	<i>Social Theory/Cultural Theory</i>	1
2		2
3		3
4	2.1 The Ghost of Winch's Ghost	4
5		5
6		6
7	Philosophy may in no way interfere with the actual use of language; it can in the	7
8	end only describe it.	8
9		9
10	Wittgenstein, <i>PI</i> 124.	10
11	Social scientists do not have a theory ... for how the people they study determines	11
12	what counts as an action, because the determination derives from situationally	12
13	defined (context-dependent) skills, which the objects of study are proficient and	13
14	experts in exercising, and because theory – by definition – presupposes context-	14
15	independence.	15
16		16
17	Bent Flyvberg, <i>Making social science matter</i> , p.42.	17
18		18
19	This Section, 2.1, serves among other things as a kind of <i>introduction</i> to Part 2.	19
20	It (also) takes up very roughly where Hutchinson, Read and Sharrock's (2008)	20
21	<i>There is no such thing as a social science</i> left off. It provides an overview of /	21
22	an introduction to Winch as a truly Wittgensteinian thinker among the social and	22
23	human sciences, as a preliminary to the more focussed 'case studies' in the human	23
24	sciences which occupy the remainder of the book.	24
25	We have seen in Part 1 how Kuhn's 'historicisation' of (natural) science can	25
26	and should be read as modest, not at all revisionistic in its consequences for	26
27	science (It leaves science as it is, as it were ...), not at all debasing of science.	27
28	But this leaves open the question of whether what Kuhn showed is true of other	28
29	sciences/'sciences'. This Section argues that Peter Winch can and should be read	29
30	as offering a genuinely <i>therapeutic</i> Wittgensteinian take on the methodology of	30
31	what I would rather call the social studies, and offers an indication of some of	31
32	the reasons why we should be at least suspicious of the claim to scientificity of	32
33	these disciplines. And furthermore of why such claims frequently obscure the	33
34	<i>independent worth</i> and different functional nature of the social studies. 'Science'	34
35	is not the measure of all things.	35
36	Winch pursues the project of illuminating the centrality of certain ideas of	36
37	Wittgenstein's for the foundations and methodology of 'social science'. The	37
38	ideas of rule-following and of a form of life are perhaps the central ones he	38
39	urges upon us: by means of these notions we can indicate a framework for the	39
40	characterisation of human action as action that constitutes meaning, or (rather) for	40
41	avoiding its <i>mis</i> characterisation. It is because this is possible and necessary that	41
42	Winch talks about the ultimate convergence of 'social science' and philosophy.	42
43	Insofar as philosophy seeks to understand experience (or: to seek efficacious ways	43
44	of avoiding <i>mis</i> understanding it), it is concerned with developing ideas that, by	44

1 illustrating structures of meaning and life, provide a foundation for what is called 1
2 social science.¹ 2

3 Central to Winch's aims in his Wittgensteinian take on 'social science' was the 3
4 importance of getting the right *description* of whatever one is seeking to understand 4
5 or explain (Cf. *Philosophical Investigations* 124, as quoted above). As I shall 5
6 argue in 2.2 and 2.3 (and in the 'Concluding Summary' to the present work), there 6
7 is a kind of understanding that philosophy seeks that science doesn't deliver. (And 7
8 one reason for this is that 'We feel that even if *all possible* scientific questions be 8
9 answered, the problems of life have still not been touched at all' (*Tractatus* 6.52. 9
10 Cf. also 4.111). The problems that are central to politics, to psychiatry, and so on, 10
11 are *problems of life*.) 11

12 This is Winch's promise. But: *The Idea of a Social Science and its Relation* 12
13 *to Philosophy*,² the greatest or at least most famous of Wittgensteinian takes on 13
14 the social sciences, is a polemical work. Peter Winch wrote it when he was less 14
15 than 30 years old. It is the text of an angry young man – of someone angry at the 15
16 potentially dangerous perspective(s) on society dominant in his time, and still, I 16
17 would suggest, dominant today, albeit mostly in different guises. 17

18 A sober assessment of Winch's challenge and achievement in the philosophy 18
19 of the social sciences, after his death and at a distance of over 50 years from his 19
20 original text, must take seriously into account both what it was that he wished 20
21 polemically to question and to challenge, and what it was (if anything) that he 21
22 himself actually wanted to say. On the latter front especially, a serious effort to 22
23 understand Winch will take into account how he wished to be heard and read, 23
24 in the light of the 'evidence' which the totality of his later work provides, and 24
25 in particular, that provided by the new 1990 Preface to his epochal book. I have 25
26 offered such an assessment, in concert with Phil Hutchinson and Wes Sharrock, in 26
27 our (2008). The present Section aims to take that debate on a little further, and, in 27
28 reflecting upon it, offers my own perspective only, unalloyed. I shall not marshal 28
29 extensive textual evidence here from Winch, having already done this reasonably 29
30 extensively elsewhere. I aim rather, primarily, to offer a kind of '*ubersicht*' of how 30
31 one can and (I hold) ought to take Winch, in this domain, and of how Wittgenstein 31
32 can help one to see this. 32

33 I think that, if one can, one *must* re-read *ISS* in the light of the Preface which 33
34 Winch added in 1990. *If* one can, because an author suggesting how their own 34
35 work should be understood cannot be guaranteed to get it right, especially when 35
36 writing at a much later time. Authorship is not a trump card; but it is, I think, a card 36
37 to which attention should always be closely paid. If one wants to understand a text, 37
38 rather than reductively misread it or fail to read it altogether, then one will want 38
39 *if possible* to understand it as its author understands it. Where the text is simply 39
40 confused, or where the author is evidently revising the text rather than exegetically 40

41 41

42 42

43 1 Thanks to Davide Rizza for great thoughts on these points. 43

44 2 Henceforth *ISS*. 44

1 commenting on it, then one will of course have to give up such a strategy.³ But I 1
 2 think that the strategy can take us an awful long way, in the present context, and 2
 3 that it is regrettable how rarely it has been pursued by Winch's would-be 'critics'. 3
 4 Few indeed of the many critiques of Winch take his post-1964⁴ work at all 4
 5 seriously. I want to pay some attention here to what remains one of the best 5
 6 'collective' efforts to understand Winch in the last decade or two. I am referring to 6
 7 the important special issue of *History of the Human Sciences* devoted to his work, 7
 8 published a decade ago now.⁵ That special issue, devoted to Winch's work, is no 8
 9 exception to the 'rule' given above – it does not take seriously the later Winch. 9
 10 The special issue features ten papers, by some major names in the field. It features 10
 11 several authors who would characterise themselves as 'Wittgensteinians' of one 11
 12 stripe or another. It contains several papers which purport to involve a serious 12
 13 effort at understanding Winch. Some of the papers in it are very interesting, and 13
 14 there is some good philosophical and intellectual work in some of them. But my 14
 15 own opinion is that, regrettably, at most only two of them actually succeed in taking 15
 16 up a Wittgensteinian stance upon the human and social sciences,⁶ and that at most, 16
 17 these same two succeed in understanding Winch in a manner that Winch himself 17
 18 would find minimally acceptable. In sum, hardly any of the contributors to *HHS* 18
 19 takes up the kind of anti-theoreticist stance that I believe Winch took, following 19
 20 Wittgenstein. *They do not seek to follow Winch, in seeking to understand Winch.* 20
 21 Most of the papers in the *HHS* special issue, of course, mean to criticise Winch 21
 22 in one or another fashion. But I believe that *they mostly fail even to do that*, 22
 23 because they do not evince a sufficient level of understanding of the object of their 23
 24 criticisms, which are largely directed not against Winch's ghost, but against a mere 24
 25 *ghost of Winch's ghost*. They are *not*, in my view, in actuality directed against his 25
 26 work. Their alleged target is simply missed. 26
 27 'But what,' asks an interlocutor, 'do you mean by theory? You say that we 27
 28 argue only against a ghostly unreal Winch; but *what would it be* to take up a 28
 29 _____ 29
 30 3 As will become evident, I believe that almost all of the 1990 Preface can be read as 30
 31 explicating the 1958 text, rather than revising it. Winch frequently refers to the unfortunate 31
 32 way he put things in the first edition of *ISS*; he rarely suggests that it needs to be substantively 32
 33 revised. On the single occasion where he does, I think, suggest substantive revision (see 33
 34 below), I personally would be inclined to accept the revision (while conceding, of course, 34
 35 that it *is* a revision). 35
 36 4 The publication date of 'Understanding a Primitive Society.' Most critics do give 36
 37 this paper some attention – even though few of them seem to understand it, and fewer still 37
 38 seem to use Winch's later work to help themselves do so. UPS is often taken to manifest 38
 39 the 'modest' interpretation of incommensurability argued for in 1.1 and 1.3, above. One 39
 40 way of seeing that it surely *does* not do so is to read and reflect upon Winch's later essay, 40
 41 'Incommensurability'. 41
 42 5 *History of the Human Sciences*, 13(1), February 2000. Henceforth *HHS*. 42
 43 6 The two exceptions to the general rule, in my opinion, are Lynch and (perhaps) 43
 44 Lassman. 44

1 non-theoretical stance *vis-à-vis* the social sciences? Isn't the avoidance of theory 1
 2 itself merely an out-dated empiricist fantasy? And isn't it only Winch's empiricist 2
 3 fantasy of natural science⁷ that stands against what he calls 'social study' so as to 3
 4 provide a supposedly clear counter-class?⁷ 4

5 For reasons that will be familiar by now to readers of this book, I am deeply 5
 6 disinclined to answer the demand for a definition of 'theory' directly. I do want to 6
 7 allow for the possibility – which this kind of questioner typically wants dogmatically 7
 8 to pre-emptively shut off – that there can be such a thing as not having a theory. It's 8
 9 not at all true however that I think that theory outside the natural science is always 9
 10 bad. It is true that I don't offer in Part 2 of this book many examples of harmless 10
 11 or even good theories or theoretical concepts. In a longer work, I could do so: on 11
 12 the basis that not all theories have to be in the form of 'scientific' or 'philosophical' 12
 13 (e.g. metaphysical) theory, and that some 'theory', in the sense of well-motivated 13
 14 and -positioned critical reflection and questioning (one might or might not want 14
 15 to call that 'theory'), can be OK. For: what makes a speech act good or bad theory 15
 16 is not the form of words in which it is couched (though those that are mostly in 16
 17 practice self-referential, such as most 'social theory', can't be much use outside of 17
 18 their own game) but what is done with it, how it is *used*, what it is used to do; i.e. 18
 19 I am suggesting here something along the lines of: 'Don't look for the meaning; 19
 20 Look for the use'; good philosophy is about activity not product. 20

21 It is very important to understanding the present work to be clear that *there is* 21
 22 *nothing wrong* with the term 'theory' *in itself*. To say that there were, or that it should 22
 23 never be used in regard to human phenomena, would be a dogmatic and futile attempt 23
 24 at word-policing. There is no harm in using the word 'theory' even in relation to 24
 25 one's analysis or what-have-you of human affairs – *provided* one is clear about how 25
 26 one is using the word, and alert to the ways it may incline one, as part of an extant 26
 27 literal or metaphorical 'system' of thought or of associations, to move in certain 27
 28 directions rather than others, perhaps problematically. This book is, I hope, helping 28
 29 to develop in the reader (and in the author) a sense of judgment about the difference 29
 30 between different uses of the word 'theory' (and of the words 'science', 'explain', 30
 31 and so on.). The hope is that one will no longer be *taken in* by *resemblances* between 31
 32 what one is doing (as a student of society, say) and natural science. 32

33 So: it is *true* that Winch's 1958 presentation was marred by an empiricist 33
 34 rendering of natural science.⁸ But this does not vitiate his questioning of the 34
 35 *scientism* of 'social science'. The presumption, for instance, that the task in hand 35
 36 ought to be the production of something on balance (i.e., thinking of natural 36
 37 science as in some sense our model) worth calling a *theory* of the phenomena. 37
 38 The possibility that something other than a theory might be what we need is rarely 38
 39 considered; it is hard for most commentators even to bring it into view clearly.⁹ 39
 40 40

41 7 For detail, see for instance Bhaskar (1979). 41

42 8 Winch admits this on pp.xi–xii of the 1990 Preface. 42

43 9 The main reasons for this are given in McGilchrist's wonderful (2009). See also Lakoff 43
 44 and Johnson's important work; and see the Interview that rounds out the present work, below. 44

1 It is a possibility central to the possibility that Wittgenstein and Winch may have 1
 2 something novel and radical to offer one, as one tries to find one's way about the 2
 3 so-called human sciences. 3

4 The question as to what it would be to take up a non-theoretical stance in 4
 5 reflection (e.g.) upon the subject-matter of 'the social sciences' (i.e. upon social 5
 6 phenomena) is a good question, a question integral to Part 2 of the present work. 6
 7 But those asking it often seem to think it a rhetorical question, a question that 7
 8 answers itself in the following way: it is impossible for there to be any such stance. 8
 9 The claim that something worth calling a non-theoretical stance in philosophy is 9
 10 impossible is a claim that I question. First off, *what* is it that is being said to be 10
 11 impossible here? Until *that* question is answered, my interlocutor's own claim is 11
 12 moot – *what* is being claimed?¹⁰ It often seems that such a 'claim' is a product of 12
 13 what Richard Rorty¹¹ has called 'post-modern knowingness'. According to such a 13
 14 'knowing' stance, 'everyone' knows in advance that anyone claiming to be able to 14
 15 do without a theory is merely relying tacitly and dishonestly on a (hidden) theory. 15
 16 Often, such 'knowingness' is in the service not of a genuine anti-positivism, but 16
 17 of an elitist theoreticism.¹² 17

18 The point of much of the best work on and after Wittgenstein in the last 18
 19 generation has been to dispute such assumptions. More specifically, there is a 19
 20 'school' of Wittgensteinians (loosely associated with the heritage of Winch, more 20
 21 closely with that of the later Baker, Cavell and Diamond),¹³ my school, who 21
 22 believe that Wittgenstein *can* be understood, after his own word, as no purveyor 22
 23 of theories, nor of any philosophical assertions or theses barring those which 23
 24 elicit no disagreement.¹⁴ The scholars in this 'school' dispute that the 'return to 24
 25 the everyday' need be politically conservative;¹⁵ they dispute that it need be naive 25
 26 philosophically;¹⁶ and they ask (again) whether the very various philosophical 26
 27 _____ 27
 28 _____ 28

29 10 For further explication and exemplification of the 'logical method' I am employing 29
 30 here, see Stone's (2000). 30

31 11 Unfortunately, Rorty sometimes fails into a trap somewhat analogous to that 31
 32 which he has delineated in the work of Jameson and others. I.e. He writes as if it must 32
 33 be obvious to anyone with a modicum of intelligence that such and such a position (e.g. 33
 34 advocacy of 'liberal democracy') is now uncontestable, or that such and such a theory (e.g. 34
 35 Darwinism) has inevitable philosophical or ethical consequences. 35

36 12 For a brilliant critique of all such 'knowingness', see the opening of Chapter 3 of 36
 37 McGilchrist's (2009); and cf. the 'Concluding Summary' of the present work, below. 37

38 13 The 'Winchians' tend to be sceptical of the 'Diamondians' claim that Wittgenstein's 38
 39 *early* work can be resolutely interpreted in this fashion (see for instance Reid's 1998). There 39
 40 is more agreement between them on the later work, and thus on Wittgenstein's enduring 40
 41 legacy. 41

42 14 This 'school's' work was first brought together in Crary and Read (2000). 42

43 15 See for instance the close of Crary's 2000. Cf. also Nigel Pleasants's recent work, 43
 44 and Gavin Kitching's. 44

45 16 See especially Cavell (1990) and Stone (2000). 44

1 and social theoretic opponents of the everyday have in fact succeeded in saying 1
 2 anything at all, when they say that such a return is ‘impossible’. 2

3 Martin Stone’s (2000) essay ‘Wittgenstein and Deconstruction’ exemplifies the 3
 4 last of these points particularly well. Stone notes the deep similarities of influential 4
 5 currents in recent English-speaking philosophy – for example Saul Kripke’s work 5
 6 on ‘rule-scepticism’ – with the influential current in Continental philosophy 6
 7 explicitly known as ‘Deconstruction’. Deconstructive writing typically suggests 7
 8 that there is no escape from the ‘trap’ of language, that one should be anti- 8
 9 metaphysical but yet that there is no escape from metaphysics, and that everything 9
 10 is political – such is the spirit of ‘Post-Modern knowingness’. Stone then tries to 10
 11 understand what Derrida can be trying to say in his ‘Deconstructive’ writings. 11

12 Stone notes carefully Derrida’s own painstaking efforts to avoid the clichés of 12
 13 Post-Modern knowingness. But he reluctantly concludes, even so, that he cannot 13
 14 find a successful way of understanding central features of what Derrida is trying to 14
 15 say, and in particular that Derrida has not shown that there does not exist a way of 15
 16 dealing with philosophical perplexities which refrains from giving a philosophical 16
 17 account or theory or making philosophical claims (Ibid: 106). In short, Stone 17
 18 argues that the central aim of Wittgenstein’s discussion of rules is to suggest that if 18
 19 a certain metaphysical idea of meaning, and the *deconstruction* of that idea, seem 19
 20 to exhaust the philosophical options, that is owing to our failure to see another 20
 21 possibility – namely, a return to the ordinary or everyday: 21

22 22

23 What we do [*i.e. in contrast to other philosophers* – Stone’s note] is to bring 23
 24 words back from their metaphysical to their everyday use. (PI 116) 24

25 25

26 Wittgenstein identifies philosophy’s metaphysical voice as his critical target. But 26
 27 this alone would hardly distinguish him from any number of other philosophers 27
 28 within the huge Kantian wake of philosophy’s self-criticism. So, it would be 28
 29 a mistake to infer from such a common metaphysical target, that the contrast 29
 30 Wittgenstein wishes to draw (between himself and others) should not embrace 30
 31 – or even refer most especially to – those philosophers who [like Derrida] set 31
 32 their face *against* metaphysics. ‘We bring words back,’ Wittgenstein is to be read 32
 33 as saying – ‘in contrast to the way other philosophers criticize metaphysics; in 33
 34 *their* form of criticism, words remain metaphysically astray’. (Stone, 2000: 84) 34

35 35

36 It is (we ‘New Wittgensteinians’ and ‘therapeutic Wittgensteinians’ believe) 36
 37 possible to interpret Wittgenstein as austere non-theoretical, and as resolutely 37
 38 therapeutic in his philosophical aims and methods. Such an interpretation takes 38
 39 seriously moments in Wittgenstein such as the following: 39

40 40
 41 41
 42 42
 43 43
 44 44

- 1 We may not advance any kind of theory. There must not be anything hypothetical 1
 2 in our considerations. We must do away with all explanation, and description 2
 3 alone must take its place. (*PI* 109)¹⁷ 3
 4 4 4
- 5 These moments are clearly not, I believe, to be regarded as naive retreats into 5
 6 'common-sense philosophy' or empiricism, but as reminders of a possibility 6
 7 undreamt of in Analytic or empiricist or Post-Modernist philosophies. I also believe 7
 8 that the main currents in Winch's thought are consonant with this interpretation 8
 9 of Wittgenstein. Thus, this 'detour' into Wittgenstein's thought was necessary, 9
 10 and was in fact no detour at all.¹⁸ After Winch, after Wittgenstein, I am against 10
 11 anything probably worth calling 'theory' in the social studies in most cases for the 11
 12 following reasons: 12
 13 13 13
- 14 1. 'Theory' in the social studies tends to occlude the very phenomena it deals 14
 15 with, substituting for them simplified 'dummy' versions (and, in supporting 15
 16 this claim, one might cite the bulk of the work of ethnomethodologists, 16
 17 over the past 50 years); 17
 - 18 2. Part of this process is an abstraction from participants' own understandings 18
 19 which, when such abstraction is deep or complete,¹⁹ fails to deal with those 19
 20 participants as humans or social actors *at all*; 20
 - 21 3. Explanatory theories distract us from the real task of assembling 21
 22 therapeutically-motivated descriptions of certain social phenomena which 22
 23 *do* puzzle us; 23
 - 24 4. There is a grave danger that a pre-occupation with theory will lead one to 24
 25 presume that actual human actors' primary relation to the world is itself 25
 26 theoretical: a disaster made visible for example in the 'Theory of Mind' 26
 27 theory of Autism, which attributes to ordinary human actors the very kind 27
 28 of theory that autists need to resort to precisely *because* they lack a natural, 28
 29 atheoretical engagement with the world.²⁰ 29
 30 30
 31 31
 32 32
- 33 17 Wittgenstein goes on: 'And this description gets its light, that is to say its purpose, 33
 34 from the philosophical problems. These are, of course, not empirical problems; they are 34
 35 solved, rather, by looking into the workings of our language, and that in such a way as to make 35
 36 us recognize those workings: in despite of an urge to misunderstand them. The problems 36
 37 are solved, not by giving new information, but by arranging what we have always known. 37
 38 Philosophy is a battle against the bewitchment of our intelligence by means of language.' For 38
 39 more on Wittgenstein's understanding of theory, and his antipathy to theory in philosophy see 39
 40 especially his (1980: 28, 32, and 44). For more on the sense in which Winch does (and does 40
 41 not) oppose the giving of explanatory theories, see Pleasants (2000: 82). 40
- 41 18 See also the opening chapters of Lyas (1999). 41
- 42 19 See Harold Garfinkel, especially his early and his recent criticisms of what the 42
 43 ideology of social science systematically tends to conceal. 43
- 44 20 For detail, see e.g. Sharrock and Coulter (2004). 44

1 The third of the above was especially Winch's concern. But this concern should 1
 2 not be confused with dogma. It is perhaps helpful to emphasise the proviso that 2
 3 it is 'in *most* cases' that theory-talk is to be avoided in (the philosophy of) social 3
 4 study. The only thing I dogmatically insist upon is that my position hereabouts is 4
 5 not dogmatic. Once more: I of course do *not* say that there cannot be uses of the 5
 6 word 'theory' in relation to social study which can be intelligible and helpful. I 6
 7 say rather that the word 'theory' has a bad history in this context, and is probably 7
 8 usually best avoided. I do *not* say that whether or not one calls what one is doing the 8
 9 production of a theory or not is the key issue. On the contrary, it is at most a marker 9
 10 of more fundamental issues concerning the actual character of one's intellectual 10
 11 work. I say that most intellectual work which pretends to produce or to realise 11
 12 something like what has been traditionally called a social theory (whether an 'old' 12
 13 social theory, e.g. Scientific Socialist class-analysis, or a 'critical' social theory, 13
 14 e.g. Giddens' or Bhaskar's) is highly likely to be vulnerable to the criticisms that I 14
 15 have mentioned. Winch was the first to make these criticisms in detail. 15

16 Pleasants's (1999) *Wittgenstein and the Idea of a Critical Social Theory* 16
 17 buttresses the last of my claims here. The allusion to Winch in the title is to the point, 17
 18 and Pleasants argues that would-be 'post-positivist' leading lights of contemporary 18
 19 social theory, especially Bhaskar, Giddens, and Habermas, are actually still falling 19
 20 into the same traps of scientism and misbegotten epistemology as their positivist 20
 21 predecessors.²¹ Moreover, Pleasants lays out in effective detail what I have had 21
 22 space here only to sketch the barest outlines of: namely, Wittgenstein's antipathy 22
 23 to 'theory' in inappropriate places, and how this can be spelt out in relation to 23
 24 'social science'.²² Unfortunately, I would suggest, even Pleasants fails (in this 24
 25 book of his) to be sufficiently sympathetic to Winch's own perspective on these 25
 26 matters, in characterising Winch²³ as a (more or less unwitting) fomentor of and 26
 27 participant in 'critical social theory'. 27

28 Winch, I am urging, can and should be read as rejecting a place for 'theory' in 28
 29 accounts of social reality, if by 'theory' we mean anything much like the various 29
 30 things that the likes of (for instance) Durkheim, Friedman, or Bhaskar, appear to 30
 31 mean by it. 'But,' an interlocutor may interrupt, 'how can this be? For, whether 31
 32 or not you are right about Wittgenstein, clearly *Winch* at least does have a theory, 32
 33 centred around the notion of a *rule*.' 33

34 34
 35 35

36 36
 37 21 Moreover, that their politicised 'knowingness' is more or less necessarily coupled 37
 38 with actual political impotence, and is thus a counter-productive use of time and energy, for 38
 39 anyone serious about changing their society. Pleasants believes that on this score, Winch – 39
 40 often derided as a 'conservative' Swansea Wittgensteinian – has a more genuine 'critical' 40
 41 edge to his philosophising than these self-consciously leftist contemporary academics. 41

42 22 See the first two chapters of his (1999). The reader is strongly advised to consult 42
 43 these, if dissatisfied with my own far-too-summary critique of theory in philosophy and 43
 44 related domains. 44

44 23 See Chapter 3 of his (1999). 44

1 Does Winch have a rule-based social theory? Many have thought so, based 1
 2 on their reading(s) of *ISS*. A major contemporary author who has critiqued Winch 2
 3 repeatedly on these grounds is Ted Schatzki (1893, 1999, 2000). A striking but not 3
 4 unusual fact about Schatzki's interpretation of Winch is that it pays no attention 4
 5 whatsoever to the 1990 Preface. I shall not labour my criticisms of Schatzki here 5
 6 (having already taken him on in detail in Chapter 1 of *There is no such thing as a* 6
 7 *social science*), but shall just get straight to the point: 7

8 Winch, unlike Schatzki, is (on my 'charitable' reading of him) undogmatic. 8
 9 Schatzki insists that the term 'rule' must be eschewed. But, as I acknowledged 9
 10 above, in connection with the term 'theory', no term is through and through flawed 10
 11 or misleading. To think otherwise is to fall back into the grip of an Augustinian 11
 12 misapprehension of the functioning of language. It is words *in use* which mean 12
 13 something or other, not single words in isolation.²⁴ Strings of words in isolation 13
 14 from any significant context of interest outside of the mere playing about with 14
 15 the words in theory-games: this, once more, is the problem with so much social 15
 16 theory. (See in this connection the quotation from Bent Flyvberg that opens this 16
 17 section.) 17

18 So, the way in which Winch uses the term 'rule' may be at times ill-advised 18
 19 or risky – as he himself admitted in 1990 – but it is a similar mistake to that of 19
 20 verificationism/positivism to claim that we can rule out *in advance*²⁵ the possibility 20
 21 of Winch's rule-talk being helpful in our philosophical inquiries. 21

22 But Winch never insisted on the term nor, for that matter, or any other term. 22
 23 The maxim which he seems to be following is more like 'I'll settle for whatever 23
 24 way works to convey a certain contrast (e.g., between the social and the natural) 24
 25 which is therapeutically/practically useful' rather than looking for one particular 25
 26 term – it could for instance turn out to be 'rule', or 'norm', or 'tradition' – which is 26
 27 theoretically 'correct' and may solve all our problems. 27

28 The latter alternative, the search for the magic (quasi-scientific) word, is 28
 29 roughly Schatzki's approach, and this is perhaps not surprising, when placed in 29
 30 the broader context of the fact that Schatzki has his own ('practice-theoretic') 30
 31 account of social reality. He wants to follow Wittgenstein – but ends up doing so, 31
 32 it seems, much less than Winch. 32

33 I have picked on Schatzki *because* there are moments in his work when he, 33
 34 like some others in the *HHS* group, such as Pleasants, is tantalisingly close to 34
 35 Wittgenstein's vision.²⁶ I stress that Schatzki and Pleasants are, as it were, 35
 36 notionally right: if Winch did hold the kind of thesis about the absolute centrality 36
 37 to social life of rules attributed to him by them, then he would indeed be guilty 37
 38 38

39 _____ 39
 40 24 A full discussion of this point would require a detailed rendition of the New 40
 41 Wittgensteinian take on the importance of Frege's 'Context Principle' in Wittgenstein's 41
 42 thought. A brief primer on this can be found in Cray and Read (2000). 41

42 25 As, for instance, Carnap famously rules out that Heidegger's 'The nothing itself 42
 43 nothings' can be possibly mean anything. 43

44 26 Cf. especially Schatzki (1983: 137, 2000: 104, 1991). 44

1 of a ‘metaphysical error’. But I have argued that, especially when we understand 1
 2 Winch as he asks us to understand him, we find him making no such error, or at 2
 3 worst using formulations at times that are uncomfortably similar to what someone 3
 4 would say who was making such an error. 4

5 Illustrative of the difference in temperament between Winch and some of his 5
 6 critics is his distinctive reaction to the challenge presented by Kripke’s ‘rule- 6
 7 scepticism’. Many ‘Wittgensteinians’ have sought to refute Kripke, to answer him 7
 8 in one way or another. Most notable here perhaps are Baker and Hacker (1984), 8
 9 who rely on the concept of ‘internal relations’ to bind together rule and application. 9
 10 They do come awfully close to having a rule-centred (though individualist) 10
 11 ‘social’ philosophic theory.²⁷ A minority of ‘Wittgensteinians’ have instead 11
 12 embraced Kripke’s rule-scepticism as helping us to found a true social theory. 12
 13 Most notable here is David Bloor (1983), in his *Wittgenstein: A Social Theory* 13
 14 *of Knowledge*.²⁸ But others have refused altogether to take part in the debate on 14
 15 these terms. They have not tried to refute Kripke, but rather, to understand what is 15
 16 important and tenable in the human and linguistic roots of the challenge he tries 16
 17 to issue, and to deflate that purported challenge by means of issuing an invitation 17
 18 to the philosopher caught up in a Kripkean problematic to revisit the everyday 18
 19 employments of the terms (e.g. ‘rule’ or ‘interpretation’) which are at the heart of 19
 20 the matter. It is striking that Winch (1987) proceeds more or less explicitly in this 20
 21 manner, as (shortly after him) did Cavell (1990) and Diamond (1989).²⁹ 21

22 Schatzki and Pleasants do not go as far as Bloor, in that they appear to disagree 22
 23 with his Kripkean belief in ‘undermining’ or criticising the concept of ‘rule’. 23
 24 For the likes of Bloor, ‘rules’ are a flawed element of a would-be social theory. 24
 25 For the likes of Baker and Hacker, ‘rules’ offer the tools to successfully rebut 25
 26 Kripkean skepticism. It is only Winch (*et al*) who bypasses this debate, out of 26
 27 the conviction that ‘rule’ is at base just another word of the English language, no 27
 28 more exceptional than ‘game’ or ‘chair’ or ‘microscope’.³⁰ Winch’s discussions 28
 29 of ‘rules’ and ‘internal relations’ in *ISS* and elsewhere are then best read quite 29
 30 differently from Baker and Hacker’s reading in their critique of Kripke. 30

31 Winch is building on Wittgenstein’s *Tractatus* understanding of ‘internal 31
 32 relation’, which arguably persists into Wittgenstein’s later work³¹ as something 32
 33 33

34
 35 27 My own arguments detailing why any follower of Diamond will question and 34
 36 reject their position are to be found Guetti and Read (1996) and Read (1997). 35

37 28 In conversation, Bloor has evinced surprise that Winch too has/had not embraced 36
 38 Kripke. This surprise stems, I believe, from Bloor’s total lack of comprehension of the idea 37
 39 of a non-theoreticist philosophy, of a philosophy wherein words are truly brought back from 38
 40 metaphysical holiday to their everyday employments. Cf. also p.378 of Bloor’s (1996). 39

41 29 Diamond’s paper is in a collection co-edited by Winch. Other ‘New Wittgensteinian’ 40
 42 critiques of Kripke include Stone (2000), and Read (1995, 2000a). 41

43 30 Cf. *PI* para.s 116–121. 42

44 31 See again Guetti and Read (1996) and Read (1997). Winch of course emphasised 43
 44 the continuities in Wittgenstein’s philosophy much more than is usually appreciated – he 44

1 strictly unsayable, a notion of transitional value at best. *Contra* Baker-and- 1
 2 Hacker, the term 'internal relation' cannot in the final analysis be used faithfully to 2
 3 Wittgenstein in a way which provides a generalistic account of 'metaphysical glue' 3
 4 between rule and application – this idea *does* deserve the kind of criticism which 4
 5 Schatzki (inappropriately) levels against *Winch* on rules.³² 'Internal relations', for 5
 6 Winch as for Wittgenstein, are not *genuinely* relations. Only 'external' relations 6
 7 are actually relations, between separate things. And there have to be separate 7
 8 things, if there are to be relations (between things). It follows that when Winch 8
 9 speaks of different 'parts' of social life, and similarly of social relations as being 9
 10 'internal relations', what he is really saying is most usefully put as follows: that 10
 11 *they are not relations at all*, and that characterizing them as relations can, riskily, 11
 12 lead to society being thought of in nonsensical atomistic ways. 'Internal relations' 12
 13 are simply alleged parts of *wholes/unities*. (Whereas 'applications' of rules, as we 13
 14 might put it, sometimes *develop* rules.) 14

15 When we read Winch with a sensitivity to the non-assertoric, post-metaphysical 15
 16 nature of his philosophy (at his best – see Chapter 1 of *ISS* for detail on this), and 16
 17 when we attend to his attendance to the continuities in Wittgenstein's philosophy 17
 18 (rather than, as is usual, reading in him at best only an alleged version of 18
 19 Wittgenstein's alleged 'later philosophy'), then profitable ways of understanding 19
 20 a multitude of his remarks in *ISS* open up, and unprofitable ways are shut down. 20
 21 For example, when we pick up the notion of 'internal relation' for a while, we 21
 22 see that, though it cannot be 'ultimately' satisfactory (because it is a *transitional* 22
 23 therapeutic notion), and though it can risk leading us to say things which sound 23
 24 awfully like (nonsensical) metaphysical 'theses' about the social world, it at least 24
 25 usefully closes down the unprofitable avenue of thinking of different practices as 25
 26 being (metaphysically) hermetically sealed off from one another (Cf. the closing 26
 27 pages of Winch's 1990 Preface to *ISS*); and furthermore it suggests instead an 27
 28 alternative 'picture' which may help to point up the *absurdity* (not falsity) of the 28
 29 atomism and ontological individualism or 'atomism' which have dominated much 29
 30 social theory. 30

31 In sum, careful attention to Winch's text and to its Wittgensteinian backdrop 31
 32 starts to show quite clearly how he resists being boxed into any 'position' in the 32
 33 conventional spectrum of social theories/philosophies – whether 'individualistic' 33
 34 (e.g. Baker and Hacker) *or* conventionally 'holistic' (e.g. Bloor). 34

35 'You might have a point', my interlocutor may say, 'in arguing that Winch does 35
 36 not hold the rule-ubiquity theses attributed to him by Pleasants and Schatzki.'³³ 36
 37 37

38 _____ 38
 39 arguably 'pioneered' the 'New Wittgenstein' interpretation of the continuity of the *Tractatus* 39
 40 with the *Investigations*, in his (1969). See on this also Denis McManus's (2006) masterful 40
 41 reading of 'internal relations'. 40

41 32 See Guetti and Read (1996) for detail as to where Baker and Hacker go wrong. 41

42 33 Compare also Stephen Turner's (2010:404–5) remarks about Winch's alleged 42
 43 dependence on 'the act of 'grasping' ... as a fundamental mental act.' This mentalist or 43
 44 at best idealist interpretation of Winch is a charming counterpart to the quasi-behaviourist 44

1 Perhaps these ‘theses’ are at most truisms for Winch, not controversial and fruitful 1
 2 social-theoretic claims. But then, in his crucial remarks in Section VI of Chapter 2
 3 3 of *ISS* on ‘Understanding social institutions’ and on what makes possible 3
 4 judgements of identity (Winch says that these judgements require a certain quasi- 4
 5 empathic identification with the ‘subjects’ one is aiming to understand),³⁴ what do 5
 6 ‘different’ and ‘same’ *mean*, for Winch? How, for example, is the notion of ‘same 6
 7 community’ or ‘different community’ operationalised in the first place?’ 7

8 To answer the second question first: thankfully, it is not. To answer the first 8
 9 question: These terms mean nothing at all for Winch, considered as parts of a 9
 10 *theory*. Of course, they can mean everything in the rich and sometimes conflicting 10
 11 lives of real people from (or not from) real particular communities. Why think 11
 12 that we need philosophers and/or social theorists to individuate communities or 12
 13 otherwise, when people are so busy already doing it for themselves? *What could* 13
 14 *such a theoretical individuation be, other than an attempted imposition of a* 14
 15 *simplified dummy reality on our complex world?* 15

16 ‘But this is ridiculous! Every time you are pressed to clarify what you mean by 16
 17 a term, or what one of Winch’s notions amounts to, you say that it doesn’t mean 17
 18 anything!’ 18

19 Right! It doesn’t mean anything – as part of (anything worth calling) a *theory*.³⁵ 19
 20 Roughly: only insofar as a theory were being put forward would one’s claims be 20
 21 truth-evaluable, and would what one says turn out to be true or false. But there is 21
 22 no good reason to think that this is what Winch is doing. Our work in philosophy 22
 23 is/should be thoroughly ‘therapeutic’. *It returns us to ourselves*. That is ‘all’. 23

24 ‘But isn’t it *true* that the Azande *are* (were) a relatively homogenous culture 24
 25 relative to ours, and that their culture *is* (was) relatively isolated from others, from 25
 26 other communities?’ 26

27 Now we have rapidly moved from an exclusively philosophic terrain to a 27
 28 question which is at least partly a simple matter of fact, or at least of empirical 28
 29 social description. The answer to this question may be ‘Yes’ – at least, for all I 29
 30 know. The real question is: What philosophic or social-theoretic weight can/could 30
 31 be put on this ‘Yes’? What interesting consequences follow from this historical/ 31
 32 32

33 _____ 33
 34 interpretation of him that has sometimes attracted others. When one get such ‘balancing 34
 35 out’ interpretations, it is (as shown in Chapter 1 of *ISS*) usually a reliable sign that there 35
 36 is a complete failure to understand the radicalism of the text in question – its not fitting 36
 37 into prior theoreticist categories. Compare here the closing passages of the Introduction to 37
 38 Kuhn’s *SSR*, and Sharrock and Read (2002: 27). Winch’s thinking is, we might say, in a new 38
 39 dimension, which the likes of Schatzki and Turner seem incapable of perceiving. 39

40 34 Cf. also the epigraph to this Section from Flyvberg’s impressive book. (The only 40
 41 big point on which I disagree with Flyvberg is his continued obsession with the idea of 41
 42 social *science*, after he so effectively deconstructs everything it means in the early chapters 42
 43 of his book.) 43

44 35 For a beautiful, relevant discussion of the etymology of ‘theory’, cf. p. 266 of 43
 44 McGilchrist’s (2009). 44

1 commonsensical point for philosophy of mind or language, or for the validity or 1
 2 otherwise of (e.g.) Giddens's picture of the human agent? Surely none at all! *The* 2
 3 *problem of other communities* 'is simply a disguised contemporary version of the 3
 4 *old problem of other minds*.³⁶ It can be just as phenomenologically real, but to 4
 5 someone in its grip, either notionally or really,³⁷ theory is an irrelevance. 'Therapy' 5
 6 is called for instead. 6

7 And this goes even for any terms which I myself might appear to rely on. Turner 7
 8 (2010: 414, 421–4) thinks for instance that my take on Winch and Wittgenstein 8
 9 is dependent on a theory of practices. (He thinks that *that* is my 'magic word'.) 9
 10 He thinks that 'practices' are posited as the ultimate facts/the defining theoretical 10
 11 entity, in my book *There is no such thing as a social science*. But this is a 11
 12 misunderstanding. When my colleagues and I mention or use the word 'practices', 12
 13 we mean only *to redirect attention back to what people actually do* in our society 13
 14 and in others. It is not a theoretical appeal, not a conversation-stopper. It is a way 14
 15 of turning attention back from *any* theory at all. It is a way of our not making any 15
 16 questionable appeal to (our) expertise, or to (quasi-scientific) authority. 16

17 Talk of practices is simply a way of returning to what has actual authority in 17
 18 the social world: understandings embedded in accounts people give as they do 18
 19 what they do. This is (among other things) *to draw attention to what we do and* 19
 20 *thus to the body, to embodiedness*,³⁸ to 'phenomenology'... yes, because these are 20
 21 part of the doing of anything: but attention is drawn to these only in the context 21
 22 ³⁹ of what Wittgenstein calls agreement in judgement and in form of life. That is 22
 23 practice. *All this talk returns us 'only' to us*. It is non-theoretical. *Pace* Turner, 23
 24 there is no 'theory of practices' in my work or in Winch's. 24

25 So Winch, like Kuhn, has been almost endlessly and more or less tragically 25
 26 misunderstood. Admittedly, the way he wrote, and some of his polemical and 26
 27 thought-provocative formulations, like Kuhn's (see the early Sections of Part 1, 27
 28 above), gave away hostages to fortune. Thereafter the hostages were murdered 28
 29 over and over again, and therefore their ghosts still, regrettably, walk among 29
 30 us. If Winch's ghost is to have peace (in the subtle and complex sense in which 30
 31 Wittgenstein wished to give philosophy peace, in *PI* 133), then the ghost of his 31
 32 ghost, the phantasm of those hostages, must be laid to rest. This will require 32
 33 33

34 34

35 36 This point is expanded on beautifully by Richard Hamilton in his (unpublished). 35

36 37 I have in mind Louis Sass's portrait of some sufferers from schizophrenia as 36
 37 would-be real-life solipsists – see his 1994, and 2.2 below. 37

38 38 I am thinking here of Lakoff and Johnson's description of their 'embodied 38
 39 realism'. 39

40 39 And 'context' too is not a word that I/we theorise. See Iain McGilchrist (2009) on 40
 41 'context' as properly a right-brain, not a left-brain, concept (Cf. the epigraph to this Part). 41
 42 The failure to understand this consumes even someone like Derrida, for reasons similar to 42
 43 those given in the discussion of Derrida and Stone, above: Derrida, in his famous attempt 43
 44 to criticise Austin, can't help falling into the 'left-brain' hyper-analytic presumption that 44
 44 'context' must be a theorisable notion that Austin must be trying to theorise. 44

1 philosophers and theorists of the social sciences to find a way no longer to hear 1
 2 Winch himself as a fantasist with incoherent mumblings of a Relativistic or 2
 3 Idealistic nature forever behind his lips. Winch never meant to be a social theorist 3
 4 or a philosopher with a metaphysical message.⁴⁰ I have tried to suggest here how 4
 5 he can be read otherwise than as that. But it requires an effort of will to follow my 5
 6 suggestions. I hope I have offered enough *materiel* to help one willing to make 6
 7 such an effort, in their journeyings. 7

8 Wittgenstein once suggested that philosophers confronted with our own – their 8
 9 own – ordinary lives and words are like primitive peoples confronted with the 9
 10 artifacts of modern civilisations. Philosophers (of the social sciences, for example) 10
 11 typically lose their concepts⁴¹ and lose their footing in their everyday practices, 11
 12 when they reflect on (theorise) those practices.⁴² The same applies to ‘social 12
 13 scientists,’ and so both tend to invoke crude two-dimensional substitutes for those 13
 14 practices, with all their vast complexity and subtlety. 14

15 Winch once sketched a way of avoiding doing this in connection with an 15
 16 influential example, that of Evans-Pritchard’s *Azande*. How ironic it is that, so 16
 17 frequently, the way in which Winch has been treated in the literature involves 17
 18 *just* the kind of primitive misunderstanding (both of his topic and of his text) 18
 19 that he himself warned against.⁴³ The misunderstandings of Winch which have 19
 20 predominated among philosophers and others can be alleviated – but not by any 20
 21 theory, and not by any reader unwilling to do the work for themselves. (In the end, 21
 22 each of us has to do the real philosophical work for ourselves, using others’ words, 22
 23 such as mine, at best as directions which one can turn to one’s own case.) 23

24 Readers *willing* to do that work will find that they no longer have to wrestle with 24
 25 Winch’s ghost in the form of *only* a ghastly misrepresentation of him. Rather, they 25
 26 will find, as I/we found in writing *There is no such thing as a social science*, that 26
 27 Winch is alive and well and living in his texts, if not in most of his extant ‘influence’. 27
 28 28
 29 29
 30 30
 31 31
 32 32
 33 33

34 40 This is quite clear, for instance, in his ‘Persuasion’ (1992). 34

35 41 In Cavell’s sense – for explication, see Cora Diamond’s (1988). 35

36 42 And this can of course much too easily slip ‘by extension’ into looking down not 36
 37 only on ordinary people as primitive but on ‘primitive’ peoples as thus doubly primitive 37
 38 ... as if the ‘disenchantment’ of modernity is obviously a good thing. As if it could make 38
 39 sense to think of a fully human life lived without any rituals at all. As if the category of ‘the 39
 40 sacred’ were self-evidently a primitive or undesirable one – as opposed to perhaps *essential* 40
 41 for a sane society. As if the sense of ‘attunement’ frequently manifest in ‘primitive’ societies 41
 42 for example is self-evidently a primitive and undesirable thing – as opposed to perhaps 42
 43 highly-desirable, *essential* even for human survival, maybe ... 42

43 43 For some chapter and verse in the case of the ‘critical social theorists’, see 43
 44 Pleasants (2000: 83) 44

9 Man's greatest happiness is love. Suppose you say of the schizophrenic: he does not 9
10 love, he cannot love, he refuses to love – what is the difference?! 10

11 Ludwig Wittgenstein, *Culture and Value*, p.77 11

12 12

13 13

14 This Section, and 2.3 following, focus primarily on a discipline, psychiatry, that 14
15 frequently trumpets its own allegedly scientific status, but that must (I argue) come 15
16 genuinely to be open to and to understand (to the extent that such is possible) the 16
17 phenomenology of the phenomena that are its subject-matter: the lived reality and 17
18 (sometimes) self-perpetuating course of psychopathologies. Self-perpetuating, in 18
19 that the *phenomenology* thereof is a crucial part of why they are difficult to escape or 19
20 to emerge from. My argument here (and in 2.3) is that Wittgensteinian thinking has 20
21 something substantive to offer in this regard: Wittgenstein's therapeutic diagnosis 21
22 of solipsism and of other philosophical maladies, as Louis Sass suggests, can offer 22
23 one vital clues to the phenomenology and thus to the aetiology and course of some 23
24 psychopathologies. The terrible danger of the quest to make psychiatry 'scientific', 24
25 whether via biological reductionism or via cognitive scientific modelling of 25
26 'abnormal cognition', is that it obscures this kind of possibility, and obscures the 26
27 relevance then of humanistic understanding to the essence of the subject. (Thus the 27
28 force of the question: Ought we to figure psychiatry as a science?) 28

29 29

30 *** 30

31 31

32 In Part 1 of this work, we spent much of our time clarifying Kuhn's conception 32
33 of 'incommensurability'. In 1.2, we inhabited a broadly 'interpretive' version 33
34 of 'incommensurability': we supposed that there was a 'what', perhaps 'closed' 34
35 to us, that was of the essence of the beliefs of defunct scientists. We saw that 35
36 (as with Sapir-Whorf) this issued in a vicious relativism. So, as suggested 36
37 in 1.1 and 1.3, we instead opted for a more 'modest', 'descriptive' version of 37
38 incommensurability: one that urges that scientists who are 'distant' from us 38
39 are genuinely hard to understand but perfectly comprehensible once we have 39
40 made enough of a hermeneutic shift, and placed them at a greater distance from 40

41 41

42 1 Some of the material in the first half of the present Section is a much reworked 42
43 version of a piece originally published as 'On approaching schizophrenia through 43
44 Wittgenstein' in *Philosophical Psychology*, 14: 4 (2001), 449–475. 44

1 ourselves than we were initially inclined to. That such understanding is more akin 1
 2 to the understanding of (say) a philosopher with whom one is in dispute that it is 2
 3 to the understanding of a doctrine that one needs to decode. I am going to suggest 3
 4 in the present Section that, in the end, Sass's influential vision of the project of 4
 5 understanding schizophrenia is closer to method we used in 1.2 than in 1.3/1.1. 5

6 In the previous Section, 'The ghost of Winch's ghost', I addressed some of 6
 7 the persistent misunderstandings of Winch which have regrettably dominated the 7
 8 literature to date. I sought to present Winch as a successful thinker, employing 8
 9 Wittgensteinian methods among the 'human sciences' in order to gain some clarity 9
 10 therein. I now wish to take a hard 'case' with which to test our presentation of 10
 11 Winch (And with which concomitantly to test the method and the stance of 1.3 11
 12 and 1.1)² an example drawn from the work of the philosophically-inclined clinical 12
 13 psychologist Louis Sass, from his bold recent 'Wittgensteinian' attempt to provide 13
 14 an interpretation of something very alien, namely (hard cases of) schizophrenia. I 14
 15 take this example '*for the sake of argument*'; there is no space *here* exegetically to 15
 16 describe in detail or to argue conclusively over whether Sass's line on schizophrenia 16
 17 is basically correct or not.³ 17

18 There is an additional reason for the consideration of this case, and similarly 18
 19 for the argument of 2.3 that follows. It is this: That (as Winch suggested/predicted, 19
 20 in his famous remark about 'misbegotten epistemology'), in order to do psychiatry 20
 21 and psychology fully adequately, one *has* to do some philosophy. Philosophy has 21
 22 a role to play *in* psychiatry and philosophy. That is in part what I seek to show in 22
 23 2.2 and 2.3. Philosophy doesn't just deliver vital methodological cautions; it can 23
 24 play a substantive 'hermeneutic' role. (In 2.5, we consider a potential objection 24
 25 that could arise from the approach I take here in 2.2 and 2.3: am I placing too 25
 26 much weight on 'consciousness', as an object of study that 'defies' natural science, 26
 27 and using *that*, dangerously, as the basis for my argument in the book that it is 27
 28 inappropriate to model studies of the human world on the natural sciences?) 28

29
 30 *** 30
 31 31

32 Louis Sass argues that, far from being a 'disease' of cognitive deficit, much of 32
 33 schizophrenia is a 'disease' of hyper-reflexivity, even hyper-rationality and 33
 34 alienation. Putting the point too strongly, but to give one an idea of the direction- 34
 35 of-travel here: He suggests that schizophrenia is almost a philosophical malady. 35
 36 His fascinating critique of traditional scientific and psychoanalytic accounts 36
 37 of the nature of schizophrenia, which I invite and urge the reader to consult for 37
 38 herself should she wish for more detail,⁴ is, arguably, highly-effective. Sass argues 38
 39 that we can understand schizophrenia – if we follow Wittgenstein's diagnosis of 39

40
 41 2 To anticipate: I shall argue that, unfortunately, the method of 1.1 and 1.3 and 2.1 is 41
 42 *inapplicable* to hard cases of schizophrenia. 42

43 3 See Part 2 of Read (2007) for detailed presentation of and discussion on this. 43

44 4 The best place to start is perhaps with Sass (1992). 44

1 solipsism as a disease of the intellect – as a disease of *hyper-thinking* and hyper- 1
 2 reflexivity in which the consistent solipsist moves seamlessly from thinking of 2
 3 herself as the centre of everything, to thinking of herself as nothing at all, to the 3
 4 pragmatic absurdity of thinking of herself as requiring the existence of another 4
 5 mind, and so on, interminably back around this merry-go-round of philosophical 5
 6 ‘positions’.⁵ We can interpret the severe schizophrenic, e.g. Daniel P. Schreber, 6
 7 as strictly analogous to such a solipsist, Sass claims. And thus we can understand 7
 8 schizophrenia, understand why it is the way it is, and what it is like. 8

9 I want to ask the following question of what Sass represents for us. Firstly, is 9
 10 his account as Wittgensteinian an account as he would wish it to be? If not, could 10
 11 (the spirit of) Winch suggest an alternative ‘account’ of (how not to misunderstand) 11
 12 the phenomena under investigation here, which would be closer to the spirit of 12
 13 Wittgenstein? 13

14 Here is an example of Sass’s ‘hermeneutic’ account of schizophrenia. He 14
 15 writes, of Schreber: 15

16 16
 17 Schreber’s *dream* is that spirits should be drawn down toward him and perish 17
 18 therein. For example, he sometimes hears the spirit of his wife saying (*more* 18
 19 *precisely, he hears it ‘represented as saying’*) ‘Let me’ – words which he knew 19
 20 to mean let me ‘dissolve in my husband’s body’. Since the spirits of Schreber’s 20
 21 cosmos *represent* potentially rivalrous conscious centres, their perishing in him 21
 22 *can be interpreted as a conceding of defeat in the competition of consciousness.* 22
 23 (Sass: 1994: 120 Emphasis added) 23

24 24
 25 It *can* indeed be interpreted that way, a way consistent with Sass’s hermeneutic 25
 26 for schizophrenia, on a rigorously-pursued analogy with consistent solipsism, and 26
 27 the inevitable confusions concerning the nature of consciousness which solipsism 27
 28 (according to Wittgenstein) involves. Alternative and at least somewhat-plausible 28
 29 interpretations are available; for example that the wish of the spirit of Schreber’s 29
 30 wife to dissolve in him is actually an expression of his wish to have her (womanly) 30
 31 ‘voluptuousness’ become an actual, ‘literal’ part of him. 31

32 But: why ought we to be *interpreting* here at all? Oughtn’t we to start with 32
 33 Schreber’s experience *simpliciter* in its, and his, own terms? *Within* those terms, 33
 34 nothing represents anything unless Schreber takes it to do so, as he *does* evidently 34
 35 take certain words – a little bizarrely – to symbolise certain sentences, as in the 35
 36 example under discussion. *In* Schreber’s experience, spirits *are* drawn down 36
 37 37

38 38
 39 _____ 39
 40 5 For detail, consult chapters 1 and 2 Sass (1994a) wherein Sass, drawing particularly 40
 41 on Schreber’s *Memoirs* of his nervous illness, presents a compelling reading of Wittgenstein 41
 42 on solipsism *etc.* as less a univocal and stable ‘egocentric’ doctrine than a continually self- 42
 43 deconstructing impulse, with a logic that defeats any effort to stabilize itself at ‘egocentrism’. 43
 44 For sympathetic exposition and critique, see Read (2001a), from which some of the next 44
 44 few pages are loosely adapted. 44

1 toward him, and no matter that it is hard to see how we can begin to take this 1
 2 remotely seriously. We have nevertheless to try to see what, if anything, it *means*. 2

3 One might argue then that Sass's turn of phrase here betrays that he is palpably 3
 4 offering an interpretation of Schreber's experience, rather than trying as hard as 4
 5 he (Sass) might to 'let that experience speak for itself'. Schreber's experience, it 5
 6 might be argued, gets a chance to so speak (so to speak) not only in his *Memoirs*, 6
 7 but also in his other, and crucially his *own* (rather than Sass's), writings. 7

8 One might again take as a partial and comparatively useful analogy here an 8
 9 anthropologist trying to let (the experiences of) a very different people speak 9
 10 for themselves. We might compare and contrast Wittgenstein's attitude, in his 10
 11 *Remarks on Frazer's Golden Bough*, or similarly Peter Winch's approach to the 11
 12 Azande's quasi 'double-bookkeeping,' in his *Understanding a Primitive Society*. 12
 13 Apparently, deeply-bizarre and/or contradictory beliefs can proceed perfectly 13
 14 happily in tandem with a practical workaday attitude toward growing crops *etc.* 14

15 Wittgenstein and Winch provide us with a salient contrast to Sass's approach. 15
 16 Winch, after Wittgenstein, does not aim to say, for example, what the Azande are 16
 17 *really* doing 'behind' the appearances – when they use their poison-oracles and 17
 18 so on. Not at *all*, except of course in the (vital) sense that Winch aims firstly at 18
 19 sketching parallels which actually might help us to understand the Azande (e.g. 19
 20 he poses the suggestion of thinking of their practices as like prayer rather than 20
 21 like science), and secondly at offering in outline a description which can would 21
 22 reasonably well satisfy the *Azande*, were they to be interested in *being* described 22
 23 or in describing *themselves*. Winch holds that wherever social study is carried 23
 24 out, it must aim to give a version, an account, that could in principle satisfy the 24
 25 criterion of being accepted by those being 'accounted for'. 25

26 A very important difference of nuance here from the case of schizophrenics 26
 27 now suggests itself. Without, I hope, giving offence, one can say that, often 27
 28 tragically, there is a serious question as to whether in some serious cases of 28
 29 schizophrenia there can be any question of taking seriously any affirmation which 29
 30 a schizophrenic might make of one's interpretation of their condition, or how they 30
 31 feel, and so on. Because their schizophrenia (launching them as it does, according 31
 32 to Sass himself, on a 'hyper-rational'/hyper-reflexive/hyper-alienated journey 32
 33 which issues in nothing consistent) *deprives* them of the position of being able to 33
 34 be taken seriously in any such affirmation or denial, unlike (surely) the Azande. 34
 35 This raises a question about what the *criteria* of correctness of interpretation could 35
 36 possibly be, in the case of anyone attempting to hermeneuticise schizophrenia, and 36
 37 ought to make us worry about whether an 'interpretation' could possibly be what 37
 38 we ought to look for. 38

39 If one is 'hovering', or flip-flopping, between alternative ways of expressing 39
 40 oneself, or between different ways of being understood which one is being invited 40
 41 either to assent to or to deny, there will normally be a resolution to such hovering 41
 42 available. Typically, one will settle on some form or forms of words. There is a 42
 43 qualitative difference between 'hovering' when at least in principle a *resolution* 43
 44 of the hovering is available in one of these forms, and when it *isn't*. In the latter 44

1 kind of case – as, arguably, in much severe schizophrenia – we lack a basis for
2 rendering the humans in question genuinely intelligible.⁶ This is an absolutely
3 critical point.

4 Very roughly: the Azande are playing a language-game, just a radically
5 unfamiliar one; the schizophrenic is not.

6 The *strangeness* to us of the Azande way of life needs emphasising just as
7 Winch himself emphasises it, if it is to come to make any sense to us.⁷ Winch
8 is careful to point out that he would have no hesitation in calling their practices
9 irrational if he had a standard on which they could be judged as such, but that
10 he does not because their ways are culturally independent of ours, and in this
11 respect, are different from witchcraft in our own history, for in the latter case, there
12 are cultural standards according to which judgement can be made, for example
13 Christian standards.

14 Witchcraft-beliefs in our society are in many cases arguably ‘parasitic’ on
15 Christianity, and it is in those terms that they can be called irrational. It is not, of
16 course, the impersonal, general scientific standards of universal rationality that are
17 in play, but those of a specific culture. The deep mistake would presumably be to
18 mistake our cultural tradition of science as a non-imperialistic standard for judging
19 others rather than itself a product of our culture; the Azande are *not* unintelligible
20 to us in that we cannot grasp their witchcraft system, but are irrational, in *Evans-*
21 *Pritchard’s* (questionable) conception of them, because they allegedly hold
22 contradictory beliefs. Evans-Pritchard emphasises how much at home he became
23 with the daily practice of the Azande’s magic, and it is only when he tries to bring
24 it under comparative review that he gets into the kinds of problems that Winch tries
25 to disentangle, resulting in his (Winch’s) showing that this way of life nevertheless
26 can in principle be understood. The *severe schizophrenic’s*, however, cannot.

27 Let me explain in more detail. While the form of the Azande practice can
28 be comprehended provided one takes on board Wittgensteinian lessons about

30 6 Arguably, much more than ‘consistency’ and order in logic, belief and visible action
31 are required in order for a person to be intelligible. The full panoply of human expression
32 and action, including perception, desire and affect, is needed. Where one of these is wholly
33 lacking, as arguably in some Autism and Schizophrenia, we think we just don’t know
34 what to say about the experience of the persons concerned – we don’t have grounds for
35 saying one thing rather than another. What we can unmisleadingly be said to understand
36 is I think (*ordinary*) human psychology, *just as Wittgenstein says*, on p.77 of *Culture and*
37 *Value*, also the epigraph to this Section: ‘Man’s greatest happiness is love. Suppose you
38 say of the schizophrenic: he does not love, he cannot love, he refuses to love – what is the
39 difference?!’ One can understand – or fail to understand – a friend. But one’s failure to
40 understand Schreber is, sadly, fated to be more ‘absolute’.

41 7 This strangeness is, Winch thinks, underplayed even by Evans-Pritchard, as he
42 characterises the Azande as irrational – for Winch thinks that the true strangeness of the
43 Azande is that they may be doing and saying just the very odd things that they apparently do
44 and say and yet not be accurately and without interpretive violence fitted into boxes marked
45 by us with the labels ‘irrational’ or ‘mistaken’.

1 context-relativity and about the games (of language, of life) being collectively 1
 2 played, the form of the severe schizophrenic case goes 'beyond' what can strictly 2
 3 be comprehended, and into what can only (again, after Wittgenstein) at best be 3
 4 diagnosed. While there is, perhaps, something one can call a Zande 'belief'- 4
 5 system'⁸ in action, albeit by our lights a pretty peculiar one, there is often in 5
 6 schizophrenics only the illusion of a system⁹ – almost invariably with no like- 6
 7 minded community to sustain it –¹⁰ and a 'system' furthermore within which one 7
 8 can find no real resting-place.¹¹ And while the *Azande* do not press their thinking 8
 9

10 _____ 10
 11 8 The scare quotes are to indicate that one courts a serious misunderstanding if 11
 12 one even uses the term 'belief' to refer to the Azande's 'magical' notions and practices. In 12
 13 particular, Sharrock and Anderson invite us to consider the suggestion (made originally by 13
 14 J. Cook, in his 'Magic, Witchcraft and Science', *Philosophical Investigations* 6:1 (Jan. '83), 14
 15 pp.2–36) that because magical 'systems' 'do not involve beliefs they do not involve beliefs 15
 16 which can be mistaken.' And I think they are right when they go on to say that 'Wittgenstein 16
 17 [and Winch are] not suggesting that magical practices do not have anything to do with 17
 18 beliefs but that they are not *founded* in them.' ('Magic, Witchcraft and the Materialist 18
 19 Mentality' (unpublished), p.7)

19 9 Cf. Laing, (1965), on pp.33–34: '[T]he expositor of a text has a right to presume 19
 20 that, despite the passage of time, and the wide divergence of world view between him 20
 21 and the ancient author, he stands in a not entirely different context of living experience 21
 22 from the original writer. He exists, in the world, like the other, as a permanent object in 22
 23 time and place with others like himself. It is just this presupposition that one cannot make 23
 24 with the psychotic. *In this respect, there may be a greater difficulty in understanding the 24
 25 psychotic. [than] in understanding the writer of a hieroglyphic dead for thousands of years.*' 25
 26 (Emphasis added.) The reader is invited then to compare *and contrast* the case of (say) 26
 27 incommensurable 'distant' science, like that of Aristotle, with that of the schizophrenic. 27

28 10 Should we regret the lack of such a community to sustain a schizophrenic's world- 28
 29 view? I feel the force of this ethical/emotional question, but it may be moot, because in 29
 30 serious cases we have good grounds for thinking that *there could not be* a community 30
 31 to sustain it. Thus, using the term 'form of life' somewhat metaphorically, we might risk 31
 32 saying that severe schizophrenics *don't have* a form of life. Cf. Jaspers (1929/1963: 282– 31
 33 3) 'Schizophrenics are not surrounded by a single schizophrenic world, but by a number 32
 33 of such worlds. If there were a single, uniform world-formation schizophrenics would 33
 34 understand each other and form their own community. But.[t]hey hardly ever understand 34
 35 each other. A healthy person understands them better. A community of schizophrenics is 35
 36 almost certainly an impossibility, since in every case it has to grow artificially and is not 36
 37 there naturally. In acute psychoses lack of awareness excludes any communal life anyway.' 37
 38 (Cf. also Wittgenstein (1980b: para. 957). So I can't endorse Blankenburg's (1971) view; 38
 39 for while (like Sass) he argues well that schizophrenia constitutes more a *different* than a 39
 40 *deficient* way of being-in-the-world, he does not adequately consider a third possibility: that 40
 41 'it' rather 'constitutes' various ways of *not* being-in-the-world *at all*. (I extend this line of 41
 42 thought in 2.3, below.)

42 11 As argued by Sass (1994), chapters 1 and 2; Sass argues, following Wittgenstein's 42
 43 diagnosis of solipsism, that there is an absolutely unstable dialectic inherent to schizophrenic 43
 44 thinking, as to solipsism. 44

1 to what others try to impose on them as its ‘logical conclusion’, Schreber *does* so 1
 2 press his/their thinking. Whether this is deliberate or non-voluntary, it is hard to 2
 3 say, even perhaps in principle impossible, and this too is an important fact. Thus 3
 4 it is that Schreber continually finds himself in a continually-puzzling, circular, 4
 5 paralyzing paradoxicality,¹² and in the absence of self-understanding, in spite of, 5
 6 and indeed perhaps *because* of, all his efforts at reflection. 6

7 All this would have the implication that, in the cases which most puzzle us, 7
 8 there could not be a successful interpretation of schizophrenia, for the simple but 8
 9 deep reason given just above: that there simply aren’t any true self-understandings 9
 10 available, in this case, against which to triangulate such an interpretation. That such 10
 11 sufferers from schizophrenia do not at key moments exhibit the understanding- 11
 12 in-practice of their own talk, the kind of everyday ‘rule-governedness’ in that 12
 13 talk and action, which in everyday human contexts we can and normally must 13
 14 take for granted.¹³ We might even say that there cannot, logically, be true self- 14
 15 understandings in severe schizophrenics (to facilitate criteria for accurately 15
 16 understanding their words and actions).¹⁴ And without those, there can be no 16
 17 production of descriptions which could be the basis for interpretation(s).¹⁵ 17

18

19

20 12 See for instance the example given on pp.60–61 of Sass’s (1994). 20

21 13 The kind of understanding-in-practice of daily life which the ethnomethodologist 21
 22 D. Francis (1994:106) is referring to in the following discussion of the ‘primitive society’ 22
 23 of the Dene Tha: ‘[T]o speak of ‘Dene Tha reality’ *in the singular* is to obscure the fact that 23
 24 the Dene Tha have what Alfred Schutz. referred to as ‘multiple realities’ – different orders 24
 25 of experience between which they move. In this respect they are ‘like us’. But as Schutz 25
 26 was at pains to point out, the wide-awake reality of daily life is the *paramount reality*, 26
 27 phenomenologically speaking. . The world of daily life is paramount in that it is ‘home’ to 27
 28 our sense of the *taken-for-granted*; it is the order of experience in which much is simply 28
 29 *there* and can be acted towards unreflectively and counted upon unproblematically’. 29

30 The ‘paramount reality’ of daily life just cannot be counted on in the case of – by – 30
 31 Schreber. (But no more should the ‘multiple realities’ element of the picture offered here of 31
 32 the Dene Than and of us be ignored. Perhaps, again, some people think that it is ‘relativistic’ 32
 33 to take this Schutzian/Winchian line on reality; for an efficient argument against this 33
 34 thought, see Lyas (*op.cit.*), e.g. p.24–25; and also below.) 34

35 14 For severe schizophrenia is in practice quite largely *defined* by the absence 35
 36 of same. When we try (and fail) to imagine what the speech of someone experiencing 36
 37 psychosis might mean, it *may* be helpful to think of their words along the lines of broken 37
 38 and muddled musical ‘scores’ or erratic ‘compositions’ – that way we can abandon the need 38
 39 to formulate a sensible picture of what s/he is saying, whilst remaining sensitive to the fact 39
 40 her/his imagination is nonetheless being struck. (And here we might wish to remember: 40
 41 music usually has a mood or a feel to it.) We must not give up on *people* suffering psychosis 41
 42 just because they are not making sense. 42

43 15 We might then risk the following quasi-Wittgensteinian remark: ‘If a severe 43
 44 schizophrenic were to speak, we could not understand them.’ (Cf. p.54, p.65 and p.67 of S. 44
 45 Glendinning (1998). On occasions, it may in fact be just as reasonable to say that people 45
 46 with schizophrenia have no world as to say what Jaspers says about their ‘worlds’.) 46

1 'But isn't there a huge tension here between what follows from a 1
 2 Wittgensteinian/Winchian/Kuhnian approach on the one hand, and Sass's 2
 3 version of schizophrenia and solipsism on the other. The former emphasises the 3
 4 importance of the deed, of practice, while the latter involves a perhaps-excessive 4
 5 interpretivism. The schizophrenic interprets everything, according to Sass – that's 5
 6 hardly Wittgensteinian!' 6

7 This objection is to the point. But Sass is describing the exception which tests the 7
 8 rule – it may well be that, *contra* the 'interpretivists', Wittgenstein and Winch are 8
 9 quite right on human beings in general, but that, *contra* traditional understandings 9
 10 of schizophrenia, sufferers from this complaint (like some philosophers?) precisely 10
 11 intellectualise and interpret in the manner which the interpretivists wrongly take to 11
 12 be the norm for humans in general! And we may follow Heidegger in suspecting 12
 13 that the reason philosophers are prone to misunderstand human being is that they 13
 14 are precisely those people prone to over-intellectualisations, to think that what is 14
 15 happening is only mentation, where actually something rather different – typically, 15
 16 involving other forms of *doing* – is going on instead. 16

17 So, in thinking through the 'objection', just offered, a question I want to ask 17
 18 is: Just exactly how appropriate is Sass's hermeneutic for the special case (of 18
 19 schizophrenia, analogised to solipsistic *etc.* philosophy) under consideration? 19
 20 Does Sass still perhaps over-interpret? Does he thereby, for instance, blind us to 20
 21 aspects of 'schizophrenic' life and talk – and there are typically many – which are 21
 22 perfectly ordinary and normal? This is an important possibility. 22

23 Very differently, and equally importantly, does he risk interpreting into sense 23
 24 something which is in the final analysis such an apotheosised and sublimed 24
 25 transmogrification of the interpretive aspects of our mental life that it can be 25
 26 'successfully' interpreted into terms which we can comprehend only at the cost 26
 27 of radically and violently falsifying it? We might even, then, pose the following 27
 28 question: In Sass's effort to comprehend schizophrenia, is there not a real danger 28
 29 that he goes too far in the opposite direction to the orthodoxy? The orthodoxy is 29
 30 that schizophrenia, insofar as it is comprehensible at all, is only so as primitivity,¹⁶ 30
 31 (or as regression, or as mental deficit, *etc.*). Does Sass, in seeking to overturn this 31
 32 view, go too far in the opposing direction, in making schizophrenia appear to hang 32
 33 together and make rational sense *more* than it in fact does? 33

34 One possible promising project then, which Sass pursues to some extent but 34
 35 unfortunately tends to drop when he is endeavouring to draw conclusions or 35
 36 generalise from Schreber's case, would be to find those points where *Schreber* is 36
 37 self-consciously puzzled by his bizarre world and 'dialogically' engage with them. 37
 38 Such points may be of crucial importance in testing critically whether any sense 38
 39 can in the end be made of 'Schreber's 'world'. 39

40 An interlocutor might object here: 'Do we have then to take Schreber's 'beliefs' 40
 41 at face value? *Can we not* re-present them and ironise them in the slightest? You 41
 42 will find avoiding doing so difficult to carry off, to say the least!' 42

43 _____ 43
 44 16 Construed, of course, in something more like a Levy-Breuhlian than a Winchian way. 44

1 Undoubtedly true, and I will not pretend thus far or in what follows to have 1
 2 succeeded, or even to have tried to as completely as we might. 2
 3 ‘Well then, how can you object to Sass’s methods?’ 3
 4 Well, I will make an effort on this count. In particular, I claim that we must take 4
 5 Schreber’s beliefs at face-value¹⁷ *if we can*. We must at least present his sentences 5
 6 and paragraphs, make a serious Winch-style effort with regard to them, and then 6
 7 ask ourselves honestly whether we can understand them. We must try to do so, and 7
 8 then perhaps recognise that in this case we simply can’t succeed, and that we’d 8
 9 be wasting our time were we to just press on endlessly, regardless. My worry is 9
 10 this: that ‘interpretation’ of them is a dubious half-way house between the claim 10
 11 to understand and the admittance of incomprehension. It gives the *illusion* of 11
 12 understanding, while tacitly changing the subject. 12
 13 For if all that an interpretation delivers is a confusion – an illusion of 13
 14 interpretation, an interpretation as thoroughly-confused – then no progress has been 14
 15 made. Confusion is not a mode of understanding. Or, more precisely: a thoroughly 15
 16 confused understanding is not an understanding of thorough confusion ... 16
 17 To summarise: I think that Sass’s account is *not* as effectively Wittgensteinian 17
 18 as it might appear at first sight. This becomes evident, when we see how 18
 19 interpretivistic, and thus non-Winchian, his account is. On the other hand it may 19
 20 not follow that even someone who understands Winch will be able to offer anything 20
 21 worth calling a Winchian account of serious cases of schizophrenia. (For, if it can 21
 22 make no difference, to return to the epigraph to this Section, how one describes 22
 23 a schizophrenic’s unavailability to love, as Wittgenstein hypothesises, then there 23
 24 cannot be such an account. For the possibility of giving such an account depends, 24
 25 as with the therapeutic/late-Bakerian version of Wittgenstein in general, upon the 25
 26 potential acceptance of the account by the person in question, or at the very least 26
 27 upon us being able to marshal considerations in favour of one description rather 27
 28 than another. But just this is what cannot be done, when it is all the same whether 28
 29 one says ‘he does not love, he cannot love, [or] he refuses to love.’¹⁸) 29
 30 I shall now explore these two points a little more fully, in order to reach a 30
 31 judgement on exactly what lessons we should take from the example of schizophrenia 31
 32 with regard to our fundamental concern, the reassessment of the achievement of 32
 33 Ludwig Wittgenstein and Peter Winch in the methodology of ‘the human sciences’. 33
 34 What exactly should we conclude, from the way in which we cannot, it would seem, 34
 35 *contra* Sass, do for severe cases of schizophrenia what Kuhn did for Aristotle and for 35
 36 phlogiston etc. and what Winch did for the Azande etc. 36
 37 Like Winch and Wittgenstein, I am keen indeed to not misunderstand other 37
 38 human beings, and I am interested in understanding what they say, in making 38
 39 sense of it insofar as it is possible to do so. Like Winch, and many others, I am 39
 40 convinced that it is often the case that insufficient effort is taken by philosophers, 40
 41 _____ 41
 42 17 Which, incidentally, does not require us to be credulous about them – see my 42
 43 ‘taxonomy’ of interpretive options, later. 43
 44 18 See epigraph to this Section for fuller quote. 44

1 psychiatrists and historians of science (and so on) to *understand*. And, rather 1
 2 like Sass, I am impressed by the lucidity and (in a certain sense) logicity of 2
 3 the patterns of life and language which can be found sometimes in the midst of 3
 4 the floridity *etc* of people with (for example) schizophrenia. But sometimes, after 4
 5 much trying, one ends up judging that it's *not possible* to do what Winch *et al* 5
 6 would want us to, and what they succeed in doing in some remarkably hard cases; 6
 7 in which case one ends up instead noting the patterns in a discourse but concluding 7
 8 that nevertheless there is an irrevocable incoherence in that discourse.¹⁹ This is an 8
 9 incoherence that, of course, cannot be understood – for there is in the end nothing 9
 10 to understand in incoherence, in nonsense, in nothing. 10

11 When there is nothing to understand, then the Winchian project of avoiding 11
 12 misunderstandings that resulted from an over-readiness to theorise is not open to 12
 13 one. I might try putting this point as follows: there's no such thing as succeeding 13
 14 in not misunderstanding nonsense. (The likes of this, as I hope is becoming clear 14
 15 to the reader, is itself 'only' a grammatical and transitional remark, and as such is 15
 16 itself prone to being misunderstanding.) 16

17 I am not, for example, as part of a philosophical theory, asserting something 17
 18 such as the following: "Schizophrenics' sentences, because of how they are put 18
 19 together, are as a matter of fact nonsense.' I am simply suggesting that one attend 19
 20 closely to the features of some of the discourse of some sufferers from severe 20
 21 schizophrenia which, their superficial appearance notwithstanding, are usefully 21
 22 seen as quite deeply different from ordinary purposive sentences in context. This 22
 23 seeing-as, as Koethe (1996) has argued, is normally best strictly distinguished 23
 24 from the seeing of facts. 24

25 I have argued (see especially 2.1, above) that Winch's philosophical suggestions, 25
 26 his hints and reminders, are extremely effective. The case I have briefly laid out, 26
 27 for saying that there are cases where Winch's thought as found in his major works 27
 28 will not significantly assist us in avoiding misunderstanding (a small minority of) 28
 29 human actions and words. The limits of Winch's reach only throw *into clearer* 29
 30 *relief* how very subtle and useful his thought is in the great majority of cases, 30
 31 and in particular in cases of significant difference which are liable to lead to 31
 32 philosophical puzzlement. The exception really does test, and confirm, the rule. 32
 33 I see no grounds whatsoever for thinking that Winch's commitments hereabouts, 33
 34 those commitments that have informed my discussions in this Section so far, 34
 35 involve any relativism. No more do they involve any of the other 'isms' that have 35
 36 been bandied about by Winch's 'interpreters'. 36

37 What follows then is an attempt to set out an overview of how a Wittgensteinian 37
 38 can find their way about the human sciences. It is, we might say, a *Winchian* 38
 39 *taxonomy of options facing the 'interpreter'*: 39

40 _____ 40
 41 19 Here I presuppose a Cavellian rather than Rortian reading of Wittgenstein. That 41
 42 is, a non-absolute distinction for certain 'practical' purposes between speaking 'inside' and 42
 43 'outside' language-games. For detail, see the papers by Cray, Cavell, and Conant in Cray 43
 44 and Read (2000). 44

1	A Taxonomy of ‘Interpretive Options’	1
2		2
3	Firstly, a cautionary note: I use the word ‘interpretive’ here, keeping it scare-	3
4	quoted, only for lack of a better and more obvious one – some of the ‘options’	4
5	which follow, I want to say, do <i>not</i> actually involve <i>interpretation</i> as that word is	5
6	often used in philosophy. I lay out what have emerged as the ‘interpretive options’	6
7	facing the would-be social student of the recalcitrantly strange; say, the reader of	7
8	Schreber. The options may be taxonomised roughly as follows:	8
9		9
10	(0) <i>Non-interpretation: Explanation Simpliciter</i>	10
11		11
12	At one extreme end of the spectrum of available options, here, we have	12
13	schizophrenics’ utterances construed simply as word-salad, and the suggestion	13
14	that any apparent order here is utterly illusory, and that only scientific explanation	14
15	based on there being a deficit, a brain malfunction <i>etc.</i> , can help us to give any	15
16	kind of account of the phenomena in question. I reject such superior knowingness.	16
17	There is a <i>respect</i> in which my own view on these matters, as sketched above,	17
18	bears <i>some</i> relation to (0), while avoiding its obvious and crude reductionism	18
19	and scientism and its abject refusal to <i>try</i> looking at and hearing the actions and	19
20	words of people with schizophrenia. The novelty of my approach lies in claiming	20
21	that some schizophrenia is in the final analysis uninterpretable even from a	21
22	Wittgensteinian perspective.	22
23		23
24	(1) <i>Literalist ‘Interpretation’: Taking the Patient at his/her Word.</i>	24
25		25
26	This approach, which is potentially attractive on the grounds of its endeavours to	26
27	avoid <i>over</i> -interpretation, splits into two further options, which, while apparently	27
28	very much opposed, are in fact crude mirror-images of one another, <i>sharing</i> as	28
29	they do a certain ‘literalistic’ approach to ‘schizophrenic language’:	29
30		30
31	(1a) <i>Massive Error</i> This is the classic version of the account of schizophrenics	31
32	as exhibiting ‘poor-reality-testing’. Schreber is simply making massive and	32
33	horrible mistakes in his reasoning all over the place. Sass has shown effectively	33
34	the massive limitations of this option, which usually shades into (0) above. ²⁰ The	34
35	analogous option in cultural anthropology is that of Frazer and his ‘descendants’.	35
36		36
37	(1b) <i>Credulousness toward the strange (in this case, the patient)</i> Here again,	37
38	no ironising of Schreber’s words is undertaken, but at the drastic cost of a	38
39	commitment to believing in what Schreber believes in. He doesn’t make errors	39
40	because, incredibly, what he says is / may well be true. Something like this is	40
41	often attributed to Winch (and occasionally to R.D. Laing). However, Winch no	41
42	more thinks that ‘There simply really are witches, if they say there are’ than he	42
43		43
44	20 See Sass (1994: 3).	44

1 thinks 'If they say there are witches, then there simply really are witches, for 1
2 them'. It is worth noting that 'relativism' hereabouts is normally systematically 2
3 ambiguous in hovering unstably between these two options. But neither option 3
4 is in fact any good. 4

5 Winch thinks that the general mistake in (1) is that one *assumes* that one knows 5
6 what they – those who are an enigma to one – are *saying*: but the whole point of 6
7 social study, for Winch, is *to find out* what we can intelligibly say (about what) 7
8 they are saying. 8
9 9

10 (2) *The Apparently-Strange But In Fact Not: in this Case, the Patient is not* 10
11 *Insane (perhaps the society, by contrast, is).* 11
12 12

13 This Goffmanian dramaturgical/translative interpretation appeals to some who 13
14 are Anti-Psychiatrically inclined, and has some affinities with (1b) above. Both 14
15 can seem humane; and both run severe risks of romanticising and of failing to 15
16 acknowledge the real depth of the problem, in severe cases. There may be some 16
17 truth in option (2), as indeed with all of these options, but it is extremely implausible 17
18 that (2) could be anything like a complete account, in many cases. 18
19 19

20 (3) *Strong Interpretation* 20
21 21

22 This interpretation is manifested prototypically by psychoanalytic approaches, but 22
23 also by various other psycho-dynamical and psychological readings. Sass usually 23
24 takes his main opponents to be following option (0), option (1a), or perhaps most 24
25 ubiquitously the current option, (3). This is the option of 'interpretation proper'. 25

26 I suggested above that Sass *himself* does not escape from engaging in just such 26
27 impositional interpretation, and what I have been trying to suggest involves setting 27
28 out the worry that, if Sass is roughly *right*, as I suspect he may well be, in taking 28
29 the word 'delusion' if applied to many cases of schizophrenia to be possessed of a 29
30 grammar quite unlike that of 'mistake',²¹ then the problem is that there is no longer 30
31 a criterion available to distinguish an adequate interpretation of such language 31
32 and action from an inadequate one.²² If we can't know when someone is making 32
33 a mistake, because they could plausibly be 'delusional' in any given instance, and 33
34 in their reflexive accounting of it (if any), we simply cannot be meaningfully said 34
35 to understand them. Thus the project of interpretation ought to be *set aside*, not (as 35
36 arguably it actually is, by Sass), revised and radicalised. 36
37 37
38 38

39 _____ 39
40 21 See Sass (2004:24f); Sass argues that delusions are no more simple cognitive 40
41 errors than 'solipsism' is a straightforward stable doctrine. Schizotypal delusions, he 41
42 suggests, are not believed univocally, and form a delusional 'system' alternative to that of 42
43 daily life, *etc.* 42

43 22 One starts to realise that it is *too* easy for Sass's interpretation of schizophrenia to 43
44 'deal with' just about any objections to it. 44

1 (4) *Winchian description*²³ 1
2 2 2
3 In adopting this option, which obviously bears some analogy to (1), above, one 3
4 attempts to avoid *interpretation*, which might make the patient appear either just 4
5 like oneself after all, or alternatively perhaps so radically different that imposition 5
6 upon them will be unavoidable if one is to say anything at all about them. One 6
7 attempts, that is, to understand a strange system or practice by understanding it *as* 7
8 a strange and *different* system, unlike (1) or (2), above, but not one so different that 8
9 it simply cannot be understood, and, in an important sense, after one has done the 9
10 necessary work of ‘distancing’ in order to put oneself into a position to understand, 10
11 *simply* understood. This is where (4) differs from (3) (and of course where it learns 11
12 from Kuhn’s ideas about incommensurability: see Section 1.3, above). One might 12
13 then attempt, for example, to avoid ironising, *via* talk of solipsism *etc.*, Schreber’s 13
14 talk of the supernatural, but *not* through credulousness, as in (1b). Rather one 14
15 would not assume too quickly that one understands what ‘the supernatural’ *is*, 15
16 and would attempt *to find out* through understanding-in-process the rules of the 16
17 language-game being played. 17
18 This is the key possibility made manifest by Wittgenstein (in relation for 18
19 instance to ordinary language when it appears strange to the philosopher), by 19
20 Kuhn (in relation to the strange in the history of science, including much of that 20
21 that to the Whiggish eye doesn’t *look* strange), and by Winch (in relation to the 21
22 Azande, etc.). 22
23 I would argue that this last option (4) is genuinely the most attractive option for 23
24 most apparently strange practices, and that it works very well for the cases which 24
25 have dominated the philosophical literature, notably, the *Azande*. However, I have 25
26 tried to suggest reasons why Winchian description and understanding does *not* do 26
27 for us with regard to some ‘schizophrenic language’ what it does for us with regard 27
28 to much other apparently ‘alien’ language and life, such as that of the Azande, who 28
29 at least engage in dialogue, and have a shared world. 29
30 30
31 (5) *Nonsense* 31
32 32
33 I would urge that one is *reluctantly* pushed, having worked through the options 33
34 listed above, toward (5), this surprising and at first very unattractive view 34
35 that the upshot of a careful consideration of Sass *et al* is that sometimes we 35
36 will simply have to conclude that certain central strange and genuinely ‘alien’ 36
37 (psychopathological, etc.) phenomena are in the end only in appearance 37
38 interpretable, and that describing them does not issue in understanding. (5) is an 38
39 option of last resort, not only for philosophical but also, certainly, for ethical and 39
40 40
41 23 I use the term ‘Winchian description’ here, but, as will become clear momentarily, 41
42 another useful and interesting example in this connection is that of completely outmoded 42
43 sciences or scientists, who at least had something like a – as Kuhn puts it – ‘research 43
44 tradition’. Take for instance once more Kuhn’s account of (his encounter with) Aristotle. 44

1 socio-political reasons. However, sometimes, Schreber *et al* exhibit language 1
 2 which, in spite of its having a kind of systematicity, is latently and ultimately 2
 3 *plainly* nonsense. This is my provisional conclusion, on the issue of whether 3
 4 there can be exceptions to the Winchian rule.²⁴ 4

5 So, I have concluded that approach (5) may on occasion be the right one. 5
 6 *Sometimes*, Wittgenstein thought that others would remain a complete enigma to 6
 7 one; and here (in extreme psychopathology) is a set of real cases where arguably 7
 8 he was *evidently* right to do so. Some philosophy cannot be made sense of: the 8
 9 same is true, perhaps, of some lives. There is no good reason *a priori* to think 9
 10 that every single human/social phenomenon must be comprehensible, or indeed 10
 11 intelligibly interpretable. But, taking approach (4) above whenever it is (necessary 11
 12 and) *possible* to do so seems to me, again, rather plainly to overcome the various 12
 13 interpretive ‘isms’ one may otherwise be drawn into, and more besides. Normally, 13
 14 *if* some social study is required, it will be able to issue in some useful description 14
 15 and the avoidance of certain misunderstandings. This is Winch’s way. 15

16 Thus armed, let us for a moment continue the thinking that we were engaging 16
 17 in in 2.1, above. One important reason, which I shall come to in a moment, why 17
 18 Winch has so often been misunderstood, in addition to the ignoring of his later 18
 19 work, by which is meant in this context, unfortunately, all or all bar one of his 19
 20 papers and books after 1958 (including notably the revised Preface of *ISS*), is the 20
 21 ill-advised *assimilation* of him to ‘interpretivist’ and ‘hermeneuticist’ approaches. 21
 22 Second, there has been a failure to emphasise that Winch’s task is primarily 22
 23 *negative* (i.e. his task is the avoidance of ‘philosophically engendered’ (thinking 23
 24 of the word ‘philosophically’ now in a very broad sense) misunderstanding, and 24
 25 nothing more). After all, to have done more would have taken much more space 25
 26 than was present in the short book he wrote! Third, we need to note once more the 26
 27 frequent lack of understanding of the work and of the conception of philosophy 27
 28 of Wittgenstein which usually gives the ‘rule’ that Winch is following (and in 28
 29 particular a lack of understanding of the very great extent to which Winch tends to 29
 30 follow Wittgenstein’s work understood fairly resolutely (and) *as a whole*, and not 30
 31 only a certain problematic rendition of his ‘later’ philosophy). Fourthly, there has 31
 32 been a failure sometimes to differentiate carefully between cases to which Winch’s 32
 33 particular interventions in the philosophy of the social sciences to a greater *or* 33
 34 lesser extent can be analogously applied. For example, there has been a failure 34
 35 to see not just the similarities but also the *differences* between understanding a 35
 36 36

37 _____ 37
 38 24 Again, I trust that the *differences* between my view (5) and a *scientistic* non- 38
 39 interpretivism ((0), or (1i)), are clear. My view is not Kraepelinian nor even Bleulerian, for 39
 40 I think that *sometimes* silence (or even word salad, or Schreberian speech) can, as Laing 40
 41 maintained, be an eloquent means of *communication*; and because it is not just some portion 41
 42 of schizophrenic language that is best judged to be nonsensical, but also most philosophy. 42
 43 My view, my conclusion, is provisional only in the sense that a full investigation of these 43
 44 matters would take more space than I can allow here – for a somewhat fuller investigation, 44
 44 see Read (1998). 44

1 local sub-culture, understanding a ‘primitive’ society and ‘understanding’ (say) a 1
 2 serious case of schizophrenia. 2

3 The additional reason that Winch has, I contend, been misunderstood, is the 3
 4 following one: readers think that, because he writes in more ordinary prose and 4
 5 with more ordinary discursive structures than Wittgenstein, therefore it is less 5
 6 dangerous to ‘translate’ what Winch says into the lingo of ‘analytic’ and theory- 6
 7 driven philosophy. In short, even most of those (still, regrettably, the minority) 7
 8 who are leery of telling us what the ‘theses’ are which Wittgenstein advocates have 8
 9 no such caution or compunction when it comes to Winch.²⁵ They assume that he 9
 10 can be read as having a theory, as putting forward various theses, and they fail to 10
 11 see what his methods in philosophy are, and what his conception of the subject is. 11

12 Such a view is mistaken, because it is, I suggest, truly a Wittgensteinian 12
 13 ‘methodology’ that Winch adopts, such that it is more helpful to say of Winch that 13
 14 he is not asserting anything at all than to say that he asserts various ‘controversial’ 14
 15 philosophical theses (e.g. ‘pluralism’, ‘monism’, ‘relativism’, or whatever). 15
 16 Winch, on my reading of him, doesn’t say *anything at all*, in the sense that he 16
 17 merely tries to offer a cure to his readers, be they professional philosophers or 17
 18 professional social scientists or whosoever. He offers a ‘cure’ for intellectual 18
 19 ‘disease’, and the cure as a set of targeted hints, questions, provocations and so on, 19
 20 is no set of assertions *at all*. 20

21 In the first instance, we understand only the ‘ordinary’ or ‘everyday’ things that 21
 22 we and others do, which amount to almost everything. Unusual, ‘extraordinary’ 22
 23 things can, if we try and are fortunate, be understood through instances of social or 23
 24 socio-historical study, especially on the model of (4) in the taxonomy above. There 24
 25 is no task for a general social science here, merely particular tasks of repairing 25
 26 breaches in our ability to ‘grasp’ or meet others. The utterly bizarre, the irreparably 26
 27 other, the residuum which unfortunately *cannot be understood at all* can, however, 27
 28 be described or ‘interpreted’ arbitrarily many different ways. This is (5) in the 28
 29 taxonomy above. 29

30 30
 31 31
 32 32

33 25 Interestingly, this cause of Winch being misunderstood has much to do with the 33
 34 misunderstanding of religion, ‘primitivity’ *etc.* in the first place. For religious people, for 34
 35 example, mostly use the same words as non-religious people, even in the course of their 35
 36 religious practices. E.g. words like ‘love’, ‘hope’, ‘death’, *etc.* To the unwary, these can 36
 37 seem an invitation to spring to a conclusion as to what it is that they are saying, doing, 37
 38 and so on; the kind of hastiness that Wittgenstein found in Frazer, and Winch in Evans- 38
 39 Pritchard. (Cf. also *PI* 11, and *Culture and Value* p.15) Winch’s writing may look to the 39
 40 casual observer much like Fodor’s or Davidson’s; but it ain’t so. We can succeed in reading 40
 41 Winch as not advancing theses, if we accept the invitation I am proffering here: to re-read 41
 42 Winch’s early in the light of his later work, especially, in the late of the later work that he 42
 43 ‘Understanding ourselves’ (*op.cit.*), a vital ‘sequel’ to ‘Understanding a primitive society’. 43
 44 (See 2.1 above, for detail on this point). 44

1 In fact, when we really *understand* this, we may well find it most useful, least 1
2 misleading, least confusing, to say: There's *nothing* there to understand. We are 2
3 faced with nonsense. 3

4 Let us consider very briefly then the famous case of the schizophrenic patient 4
5 Renee, who Sass discusses at some length, to attempt to illustrate this, by reference 5
6 to McGilchrist's take on the left and right hemispheres of the brain. Renee tells 6
7 us that everything seems to be alive, but that what it is for everything to be alive 7
8 is simply for these things to exist. Hard to understand, to say the least. We might 8
9 see Renee's vision of what it is for things to be alive as an extraordinarily ... 9
10 dead and deadening one. This, from McGilchrist's point of view (and he draws 10
11 notably, repeatedly, in his book, on John Cutting's understanding of disorders 11
12 of left-brain hyperactivity or of right-brain deficit as including quintessentially 12
13 schizophrenia), is to be expected, of a left-brain running wild. When Renee says, 13
14 "the thing' sprang up", and then follows this by telling us that the lives of these 14
15 things consisted uniquely in their existing, and nothing more, this is a take on the 15
16 world in which real life somehow no longer seems possible – and a take which is 16
17 not comprehensible without violence being done to it.²⁶ 17

18 But have I just refuted myself? Have I just *given* the relevant interpretation of 18
19 Renee's lived world? 19

20 Yes and no. The 'no', however, is crucial: For, as I say, we can say the kinds 20
21 of things I just said about Renee: but they only delay the point slightly longer at 21
22 which interpretation must come to an end, and we must accept that 'this' cannot be 22
23 worded in a way that we can imagine actually inhabiting. We are faced, it would 23
24 seem, with lived nonsense. Which is to say: a roundabout form of nothing. A non- 24
25 world, or an un-world. A world that is entirely 'alive' – and yet whose life consists 25
26 in nothing that we can recognise as life ... 26

27 What Sass analogises to schizophrenia is thus crucially different from what 27
28 Winch analogises (and disanalogises) to the Azande. Solipsism, unlike (say) 28
29 Christian prayer, or of course science (including defunct science), is sheer 29
30 nonsense, a restless and relentless failure to mean. So I am not primarily in the 30
31 business of denying that Sass's analogy works – though I am suspicious of it, 31
32 as explained above; and I am suspicious of his mode of presentation of it, as a 32
33 successful interpretation, rather than simply as a comparison (see *PI* section 130), a 33
34 comparison which *may* lessen our misunderstanding of something deeply strange. 34
35 What I am primarily in the business of is suggesting that, *even if the Sassian* 35
36 *analogy 'works'*, even if schizophrenia can be said to be analogous to solipsism, 36

37 _____ 37
38 26 Incidentally (and this is a point I shall develop in 2.3, below): One could begin 38
39 to make a speculative case here that there is a worrying similarity between Renee's '(un-) 39
40 world-view' and that of 'social science' itself. Doesn't social science itself tend tacitly to 40
41 figure people as things in something like this way? Doesn't it deaden the world, through 41
42 a reification of unending scope? If this is right, if *the ideology of social science is itself a* 42
43 *left-brain perspective running wild*, out of control, then it shouldn't be so surprising that it 43
44 so frequently issues in nonsenses. 44

1 still the analogy is *no good* to us in a central respect. For it has *no* positive analogical 1
 2 content. Nonsense has no content. So the idea that we understand solipsism as a 2
 3 doctrine, with a distinctive and determinable phenomenology, is an illusion. This 3
 4 breach, unlike the breaches dividing us from people we find odd, such as perhaps 4
 5 Christians, or fanatical football fans, or ‘primitive’ peoples, is irreparable. 5

6 At the heart of Winch’s conception, as we have seen, is the idea of looking at 6
 7 the game, and looking for both what is helpful and what is *wrong* with possible 7
 8 analogies for it. Not looking for *the* analogy which ‘gets it dead right’ – which 8
 9 ‘successfully interprets’ it. Insofar as someone claims, ‘Here’s how to understand 9
 10 *x* fully!’ where *x* is a society (or a practice, or a person), one ought to be very 10
 11 wary. Especially if involved in the claim is something which can arguably not be 11
 12 rendered effectively as anything other than nonsense! 12

13 Where Winch casts light on some object of social study, he does it to help repair 13
 14 a particular breach²⁷ and that is all. He has no grander quasi-scientific, ‘social 14
 15 scientific’, epistemic or metaphysical task in the philosophy of the social sciences. 15
 16 If it looks otherwise, that is because of certain ill-advised formulations in the 1958 16
 17 edition of *ISS*, and because commentators forget that Winch throughout his work 17
 18 *presupposes* Wittgenstein’s conception of philosophy, and *enacts* it. Recognition 18
 19 of the Wittgensteinianism latent throughout Winch’s corpus is what I have tried to 19
 20 bring about in this – and the preceding – Section. 20

21 What we have seen in this Section, more positively-put – and this, I think, 21
 22 is quite exciting (and we will see something similar in 2.3) – is how a properly 22
 23 Wittgensteinian sensibility, put to work among the human sciences, can illuminate 23
 24 more than any scientific approach. If, rather than attempting to approach ‘the 24
 25 mind’ purely scientifically, and to pathologise with the categories of correct and 25
 26 incorrect function, error, etc., we look at the inspirational example of and the 26
 27 creative thinking of someone like Sass in relation to psychology and psychiatry, 27
 28 and then take care to stay truer to Wittgenstein in *our* methodology than Sass 28
 29 manages to, we can (then) come to have a saner and less confused and less 29
 30 reificatory relation to ‘the mind’, in our studies of it, than the usual philosophy 30
 31 and practice of psychology and psychiatry make possible. A broadly Winchian 31
 32 approach to the phenomena that Sass sheds some light upon, open to using the 32
 33 philosophy of nonsense that Wittgenstein makes available – open, that is, to the 33
 34 possibility that the human contains the capacity for irredeemable nonsense, for 34
 35 nothing(s) that masquerade as something(s) – can then actually contribute to the 35
 36 projects of psychology and psychiatry. These become richer, and less prone to 36
 37 scientific crudification, than they did before we intervened. That is what the 37
 38 example that has been worked through in this Section, I believe, shows, and that is 38
 39 one thing that already the ‘taxonomy of ‘interpretive options’ offered above, that I 39
 40 hope will be of much wider use, helps to establish. 40

41 _____ 41
 42 27 Similarly, Sharrock and Anderson (1989:10) observe ‘In rejecting Frazer’s theory, 42
 43 Wittgenstein is not mounting an emotivist or symbolic alternative of his own. Some magic 43
 44 may turn out to be symbolic but equally other forms may not.’ 44

1 There is no Relativistic sundering of us from severe schizophrenics (as one 1
 2 might supposed if one had bought into a Relativist reading of Kuhn or Winch on 2
 3 incommensurability and then tried to apply it to this case). Nor is there simply a 3
 4 successful novel interpretation available of them into our own schema (as Sass 4
 5 supposes). Rather, they provide a potential exception to test the ‘rule’ offered by 5
 6 Winch (and somewhat similarly by Kuhn); they show how far that ‘rule’ rules. 6
 7 They occupy a place, I have suggested, via my taxonomic schema, ‘marking out’ 7
 8 the edge of the limits of sense. 8

9 9
 10 *** 10

11 11
 12 In this Section, I have tended to accentuate the negative, so far as my take on 12
 13 Sass is concerned. I have indicated differences between Kuhn and Winch on 13
 14 incommensurability and understanding, on the one hand, and Sass on interpretation, 14
 15 on the other, and have suggested that these differences do not redound to Sass’s 15
 16 benefit. In 2.3, below, I accentuate rather more the positive. In seeking to understand 16
 17 (just as far as it is possible to do so) certain psychopathological/extreme emotions 17
 18 (if that is even the right word for the phenomena to be discussed). 18

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2.3 Extreme Aversive Emotions

Anyone who listens to a child's crying with understanding will know that psychic forces, terrible forces, sleep within it, different from anything commonly assumed. Profound rage and pain and lust for destruction.

Ludwig Wittgenstein, *Culture and Value* (1998).

Undifferentiatedness attends the already secured standing reserve of the Un-world (*Umwelt*) of the forgetfulness of being. The earth appears as the Un-world of madness. This is what is being-historical in madness.

Martin Heidegger, *Vorträge und Aufsätze* (Stuttgart: Neske, 1954), p.93.¹

In this Section, as in 2.2, but still more directly, I aim to put a question-mark before the scientific ambitions of psychiatry. I aim, in particular, to characterise the extreme aversive emotion of psychotic and quasi-psychotic psychopathology that I will call 'dread', but also to call into question standard attempts to make such a characterisation and any over-ambitious rendition even of my (way of) characterising 'it'. This is intended then as a counter-example to a scientific rendering of psychiatric discourse.

More specifically, my objective is to indicate a 'deep-grammatical' difference between what we might term (i) fear, (ii) anxiety, and (iii) dread, using as a starting point not so much the usual (in philosophy) Heideggerian and Kierkegaardian reference-points, but rather (a) various remarks of Wittgenstein's, such as his wonderful *aperçu* about the impenetrably extreme emotions of a young child, and (b) Louis Sass's 'Wittgensteinian' reading of psychotic psychopathology (See 2.2, above, for this).

To flesh out (b) a little further: I will understand such psychopathology as fairly frequently manifesting what I am calling *dread*, and as resulting, very roughly, from an inability to dissolve metaphysical problems which come to obsess one to the point of such dread being very present, where it is almost entirely absent in (say) Descartes' *Meditations*. I will take dread (as in psychotic

¹ Thanks to Tom Greaves for this quotation and for big help in translating it. This quotation comes from a discussion of the 'principle of efficiency' that Heidegger believes determines our age, and from which comes 'undifferentiatedness' or loss of difference. This provides a link then from the theme of how to capture the phenomenology of madness to the theme of my next book, on the philosophical foundations of 'environmental science' and on the madness of our treatment of the Earth as a 'resource' (a 'standing reserve'): see the closing segment of this Section (including the final footnotes of it) and the final footnote of the 'Concluding Summary' to this book, below.

1 psychopathology etc.) as a kind of paradigm of what I am interested in here, 1
 2 what I think that mainstream psychology and psychiatry just don't *get* very well: 2
 3 extreme aversive emotions. 3

4 Thus, I will urge that a Wittgensteinian investigation of the 'pathological 4
 5 emotion' of dread (iii) – an emotion far stranger than fear or sadness or grief (i), 5
 6 and stranger even than 'merely neurotic' anxiety or depression (ii) –² establishes 6
 7 its nature. But that such establish-ment is itself limited in nature, compared to 7
 8 that which we are inclined to desire (especially, if we are captivated by 'the 8
 9 scientific image'). In this way, this Section links directly with the latter parts of the 9
 10 'interpretive taxonomy' explored in the previous Section (2.2). 10

11 Furthermore, and as explicated in the first four paragraphs of 2.2, above: this 11
 12 Section seeks to show how philosophy itself plays a role *in* the best / in some 12
 13 needful psychiatry. This in itself suggests a powerful reason for doubting that a 13
 14 purely scientific approach to the subject can possibly hope to succeed (Unless we 14
 15 count philosophy itself as a science, which of course as a Wittgensteinian I would 15
 16 consider to be a disastrous and self-deceptive manoeuvre.). 16

17 Those who seek philosophical illumination or perspicuity as to the nature of 17
 18 'dread' often look to Kierkegaard or Heidegger. And those are pretty good places 18
 19 to start looking. But these great philosophers do not, in my view, go quite far 19
 20 enough to enable the radically-averse to be, in the end, understood as best 20
 21 we can understand it.³ What I will do here is briefly to outline how reading and 21
 22 understanding Wittgenstein can shed a somewhat distinctive light on 'extreme 22
 23 aversive emotions'; *and* can do so in a way that avoids the dubious theoretical 23
 24 commitments common to mainstream approaches in philosophy of the emotions, 24
 25 such as those of most Anglo-American Cognitive Science, and sometimes also 25
 26 those in the work of 'continental philosophers', for example Martin Heidegger. 26

27
 28

29
 30 2 As will become clear, I submit that there is a qualitative change at some point in 29
 31 depression/anxiety; that these can become imbued with a more or less psychotic tinge or flavour 30
 32 or character, and that that is one point where it starts to make sense to talk of *dread*. As it 31
 33 were: The fear and trembling in the face of God is become at some point a dread in the face of 32
 34 existence itself, putting what existence *is* into some doubt (See the brief discussion of 'Renee' 33
 35 in 2.2, above). So long as the category 'God' is stable, there is a limit to *angst*; that limit can be 34
 36 breached, when (for instance) the possible *character* or *nature* of God becomes entirely open 35
 37 (e.g. perhaps God is entirely malevolent). I will not be examining Heidegger or Kierkegaard 36
 38 here; but I will indicate very briefly why I take (my development of) Wittgenstein's philosophy 37
 39 to be better able to cope with more-than-neurotic conditions than they. (In a fuller presentation, 38
 40 I would also dwell on what I mostly just pass over here: the deep *differences* between various 39
 41 psychopathological conditions (I am going to say relatively little, for instance, about the category 40
 42 of so-called 'affective disorders'), and the deep doubts, that I share, over whether such diagnostic 41
 43 categories as 'schizophrenia' are even well-defined; one certainly cannot as a philosopher have 42
 44 much methodological faith in the DSM definitions thereof.)

43 3 A possible exception being the late aphorism of Heidegger's that is the (second) 43
 44 epigraph to this Section. 44

1 In short, the key argument I will make in what follows, building on Wittgenstein's 1
 2 thinking, is that dread is best understood as involving not (as 'ordinary' anxiety or 2
 3 depression does) a different *weltanschauung*, but something more extreme: a kind 3
 4 of loss of *welt*.⁴ That is, a felt *weltverlust*, or a perceived and (and this is natural, and 4
 5 critically-important) at-times-overwhelmingly-feared *loss of world*. This, of course, if 5
 6 correct, has no parallel within the history of science; it goes beyond anything we can 6
 7 gain an understanding of via a comparison with the phenomena whose understanding 7
 8 we aimed at in Part 1 of the present work; and it has no parallel either even within the 8
 9 life-world of (say) the Azande as offered to us by Winchian (re-)vision. 9

10 We are going to have to take another mode of approach; one much-influenced 10
 11 by though non-identical with and in a certain sense more radical than Sass's. 11

12 To start with, let us recall a remark from near the close of Wittgenstein's 12
 13 *Tractatus Logico-Philosophicus*: 13

14 14
 15 If good or bad willing changes the world, it can only change the limits of the world, 15
 16 not the facts; not the things that can be expressed in language. In brief, the world 16
 17 must thereby become quite another. It must so to speak wax or wane as a whole. 17

18 18
 19 The world of the happy is quite another than that of the unhappy. (TL-P 6.43, 19
 20 emphasis added) 20

21 21
 22 Put that alongside the relatively-little-known passage from *Culture and Value* that 22
 23 I chose also as the epigraph for this Section: 23

24 24
 25 Anyone who listens to a child's crying with understanding will know that 25
 26 psychic forces, terrible forces, sleep within it, *different from anything commonly* 26
 27 *assumed*. Profound rage & pain & lust for destruction. (Wittgenstein (1998:4), 27
 28 emphasis added) 28

29 29
 30 One might approach this remark of Wittgenstein's in the following way: the 30
 31 world of the young child is quite another than that of the adult. Elsewhere, I 31
 32 have interpreted William Faulkner's *The Sound and the Fury* as an example of 32
 33 'showing' this profoundly different emotional life, with all its torments and furies, 33
 34 through brilliant literary-conceptual artifice.⁵ More crucially for present purposes, 34
 35 I suggest there at some length that this is a useful object of comparison for the task 35
 36 of understanding at least something of something *at least* as profoundly different/ 36

37 37

38 38

39 39

40 40

41 _____ 41
 42 4 This might be connected to Heidegger's late notion of the 'un-world', as instanced 41

42 in the epigraph to this Section. This goes beyond the usual Heideggerian concern with 42
 43 transformed worlds, poverty of world, the 'unworlding' of the world, etc. 43

44 5 See especially Part 2 of Read (2007a). 44

1 difficult: the mind of one caught in the profound suffering of serious mental 1
2 disorder.⁶ 2

3 My suggestion thus far then is: that the *world* (in roughly the *Tractatus*' all- 3
4 encompassing sense of that word) of those suffering from more or less psychotic 4
5 disease truly is quite *profoundly* another than that of those who do not. 5

6 This species of 'profundity' is (to say the least) hard to grasp. As laid out in 6
7 2.2, above, the hermeneutic task of understanding the cognitive and emotional 7
8 states (the 'world') of those suffering from 'schiz spectrum' disorders or from 8
9 the harsher of the affective disorders (i.e. severe/semi-psychotic depression, some 9
10 semi-psychotic moments in serious anxiety-conditions, etc.) can be significantly 10
11 harder even than the deeply-challenging task of understanding a 'primitive society' 11
12 (e.g. as investigated by Winch), or understanding outmoded science (e.g. Thomas 12
13 Kuhn on Aristotelian physics, on the model of 'partial communication', properly 13
14 understood – see 1.2-3, above). The worlds of the Azande, or of Aristotelian 14
15 physicists, deeply different and distant though they are, are far 'closer' to our 15
16 normal world than is the 'world' of those in the grip of dread. Winch's Evans 16
17 Pritchard's remarkable Azande, and the long-dead and irrecoverable Aristotelian 17
18 worldview, are yet almost closer to being live options for us not in the grip of 18
19 (what I am calling) dread. 19

20 For it is not just, as Winch and Kuhn have rightly taught us, that the world 20
21 'waxes and wanes as a whole' in ways beyond what is commonly assumed (where 21
22 what is commonly assumed focuses often upon the hope that we can come to 22
23 understand the 'primitive' or the outmoded through understanding a different but 23
24 comprehensible set of beliefs, beliefs we try to see as getting as far as being false). 24
25 Rather, *the very sense of security offered by the notion of 'world' itself starts to* 25
26 *give out*. The world 'wilts' on one, or thrusts itself upon one in ways that no world 26
27 should.⁷ This is why psychopathology is sometimes gestured at through such 27
28 wonderful (gnomic) terms as (e.g.) 'the unworlding of the world'. 28

29 _____ 29
30 6 Compare here this intriguing remark, on p.62 of Wittgenstein's *Culture and Value*: 30
31 "It is high time for us to compare this phenomenon with something *different*" – one may 31
32 say. – I am thinking, e.g., of mental illness.' (In a longer presentation, we should also 32
33 consider the relevance to the present topic of Wittgenstein's insistence in *PI* 320–5, and 33
34 464–494, and in *On Certainty* 56–151, that doubt not only requires *grounds* but should issue 34
35 in *action*: This is another way in which, as Louis Sass argues, psychopathological doubt- 35
36 like phenomena, of which 'dread' is one, tend to be consistently strange, expectations- 36
37 defying, abnormal.) 37

38 7 Powerful examples discussed by Louis Sass in his (1992) are remarks of de Chirico 38
39 and of 'Renee', which are worthy of examination should the reader wish to take this aspect 39
40 of my topic further. Compare for instance this passage from de Chirico (quoted on p.43 40
41 of Sass): 'One bright winter afternoon I found myself in the courtyard of the palace at 41
42 Versailles. Everything looked at me with a strange and questioning glance. I saw then that 42
43 led to de Chirico's famous conclusion that one had to 'live in the world as if in an *immense* 43
44 *museum of strangeness*.' (italics added) 44

1 The key experiences of derealisation and depersonalisation, for instance are, I 1
 2 would suggest, profoundly *paradoxical*, and profoundly *resistant* to understanding. 2
 3 To experience the world, and yet not experience it *as* real world, or to experience 3
 4 the world and yet lose the sense that there is any self, any person at all who is 4
 5 having the experience ... An actually experienced *epoche*, the thorough bracketing 5
 6 of things that are pre-suppositional to, and through and through presumed *in* our 6
 7 normal experience; there are in the end no words for ‘this’, no thoughts for it. 7

8 Louis Sass suggests that we can come to have *some* understanding of such 8
 9 experiences, of the crumbling of the world itself, through understanding the 9
 10 rational psychopathology of philosophical illusion.⁸ That is: through Wittgenstein’s 10
 11 delicate, dialogical understanding of one’s attraction to one to those ‘nothings’ 11
 12 that masquerade as ‘somethings’. These are forms of words/thoughts which 12
 13 *flicker* for us between different senses, and so as yet actually have no sense (at 13
 14 all). Sass suggests that the rational procedure by means of which one gets oneself 14
 15 convinced of solipsism, or ends up wanting to utter an inarticulate sound, is 15
 16 directly analogous to the paradoxical hovering between senses that characterises 16
 17 some (e.g.) schizophreniform experience. (Cf. 2.2, above.) 17

18 The logic of Sass’s argument is that ‘derealisation’ is (among other things) a 18
 19 name for what it would be to try, absurdly, to take sceptical doubts about the ‘external 19
 20 world’ seriously. And a good deal of schizophrenia can be understood better than ever 20
 21 before as a lived/felt logical working through of (the contradictions of the nonsense 21
 22 that is) ‘solipsism’.⁹ Sass sets out all this in marvellous detail, recounting anecdota, 22
 23 interpreting ‘schizy’ works of art, presenting clinical case-studies – giving rich detail 23
 24 and examples that I will pass over here, but that are strongly recommended to the 24
 25 reader interested in taking study of these matters further.¹⁰ 25

26

27

28 One can slightly taste such a remarkably alien(ated) mood, in some of de Chirico’s 28
 29 marvellous and disturbing paintings, such as his ‘The enigma of a day’. 29

30 8 Non-Wittgensteinian philosophy is as rational as psychopathology is... This, 30
 31 contrary to appearance, is however no insult. All these are human possibilities, *rational* 31
 32 possibilities. For more on how I certainly do not mean to be ‘othering’ the mentally ill, see 32
 33 the latter portions of Read (In preparation). For detail on the crucialness of the question of 33
 34 mood to philosophical illusion, see the Conclusion of Read (2007a). 34

35 9 For explication and detail, see Sass (1994: 29–75). Read (2007a) sets out also various 35
 36 worries about the limits of Sass’s approach, about his sometime tendency to make it seem 36
 37 as if Wittgenstein’s reading of solipsism etc. offers a *stable* comparator for schizophrenia, 37
 38 when actually it offers ‘*only*’: something absurd, and a sense of how we are vulnerable to 38
 39 such absurdities. Cf. also 2.2, above. 39

40 10 This Section is not the place for examining examples, which are detailed at length 40
 41 elsewhere in Sass’s work, mine, etc. This Section is simply setting out a possible mode 41
 42 for thinking of extreme aversive emotions, not attempting to prove that that mode is more 42
 43 fruitful than others. To get closer to such proof, I would recommend also, of course, reading 43
 44 memoirs by the mentally-afflicted themselves, some of which are discussed in Part II of 44
 45 Read (2007). 44

1 More recently, Sass (2007) has extended his reading of schizophrenic and some 1
 2 other psychotiform pathologies, to help understand how they manifest paradoxes and 2
 3 contradictions of emotionality, especially the so-called 'Kretschmerian paradox', 3
 4 the extraordinary, seemingly-impossible fact that schizophrenia-spectrum patients 4
 5 can (it would very much seem) *simultaneously* experience both exaggerated *and* 5
 6 diminished levels of affective response. I would add that similar phenomena appear 6
 7 during some of the worst recesses of depression: a state can be reached in more 7
 8 or less psychotic forms of/moments in depression which is at one and the same 8
 9 time both relatively non-aversive and utterly aversive, which is on the one hand 9
 10 both detached and devoid of feeling and on the other (or, perhaps, *because* of this 10
 11 devoidness) as intensely psychological painful as imaginable. Such paradoxes are, 11
 12 seemingly, sometimes experienced by the psycho-pathologically afflicted. 12

13 A common feature of a number of extremely aversive psychological conditions 13
 14 is what I tend to term *retreat* (though that word may make the phenomenon sound 14
 15 more *willed*, more reactive and independent, than it is).¹¹ What is perhaps in common 15
 16 between (what are otherwise very different): firstly, the sufferer from a bad panic 16
 17 attack, for whom the reality of her surroundings temporarily fades or withdraws; 17
 18 second, the kind of extremely depressed person just mentioned, who feels herself 18
 19 in a black pit or black hole, somehow devitalised and walled off from life and 19
 20 from other people; third, the person going through the paradoxical experience of 20
 21 derealisation,¹² knowing the world to be real and yet absolutely not feeling able 21
 22 to believe that it is;¹³ and, finally, the paranoid schizophrenic continually trying 22
 23

24
 25 One recent memoir which would richly repay a thorough such reading is Jeff 25
 26 Cumberland's (2006). Though Cumberland fairly clearly mis-self-diagnoses (Surprisingly 26
 27 for a professional (academic) psychologist, he does not seem to realise (e.g) that derealisation 27
 28 and depersonalisation are not uncommon symptoms of major affective disorder episodes), 28
 29 his unusual degree of philosophical, psychological and psychopathological knowledge 29
 30 makes his memoir of neurosis and near-psychosis peculiarly reflexively powerful and 30
 31 insightful. (See also the interview that Cumberland did for the Lulu.com magazine, which 31
 32 (for ease of public access) I have (with consent) uploaded to my website, under the title 32
 33 'Cumberland interview', at www.rupertread.fastmail.co.uk .)

34 11 I have in mind here Sass's excellent discussion, 'Act or affliction?' at the 33
 35 close of chapter 2 of Sass (1992). Our concepts give out here: there *is* no good answer 34
 36 to the question whether the sufferer from schizophrenia merely involuntarily undergoes 35
 37 suffering ('affliction') or acts in ways that co-create her condition ('act'). (Compare 36
 38 the closing discussion (below) of Wittgenstein's important remark from his (1998) on 37
 39 acts and afflictions.) Thus the word 'retreat' is itself no more than an useful 'object of 38
 40 comparison'. 'Retreating' *is* a way of *seeing* the phenomenon I am after here, *not* any kind 39
 41 of straightforward action carried out by the patient/sufferer. 40

42 12 And the case of depersonalisation is structurally-analogous, and we could consider 41
 43 it here, had we space. 42

44 13 If you are put in mind of Moore's Paradox here, that is certainly no coincidence. 42
 45 I think that Moore's Paradox too can be lived by an individual: see Read (2011a). This 43
 46 doesn't make it any less of a genuine (rather than a 'merely pragmatic') *paradox*; it rather 44

1 to systematise an understanding of her threatening ‘world’, in which the assumed 1
2 background ontology that we are consensually used to is no longer reliable. 2

3 Such ‘retreat’ is perhaps what these four cases have common. A certain degree 3
4 of more *or less* willed or inadvertent *inward-facing-ness* inevitably describes the 4
5 emotional life of one who, roughly, doesn’t *take* the world at all.¹⁴ 5

6 As Sass intimates, dread results, roughly, from an inability to dissolve the 6
7 deeply-problematic nature of such experiences. In Descartes’s *Meditations*, one 7
8 gets no sense of such dread; of the extremely aversive effects of feeling as if one 8
9 is subject to systematic delusion, or losing one’s mind.¹⁵ Descartes’s is a purely – I 9
10 would argue, excessively – *rationalist* account of doubt. He splits the emotions, 10
11 the ‘soul’, from the mind, in a way that makes it impossible to understand the felt 11
12 reality of doubt. The way in which absence of world is *internally related* to the 12
13 emotional experiences I am presenting here. From a Wittgensteinian perspective, 13
14 one is bound by contrast to highlight this sense: the lived, embodied force of 14
15 feelings of disembodiment, or of psychological confusion without redress. 15

16 _____ 16
17 broadens our conception of what a human life can involve, of ‘where’ it can lead one, 17
18 unstably, to ‘be’. The *concept* of belief *starts to break down*. And that means simultaneously 18
19 that *what we ought to say* about what is happening starts to break down, or multiply. (This 19
20 is one reason why Sass looks to art to illuminate the nature of schizophrenia. A scientific 20
21 approach sits uncomfortably in a situation where there are always multiple things one can 21
22 say to illuminate what is happening, and not just one thing.) The concept of belief as it were 22
23 best fits central cases of itself; there are cases that one can encounter in psychopathology 23
24 that in the end make it very moot whether one wants to call what is encountered a ‘belief’ 24
25 or not. This can even be a genuinely reflexive realisation: see my remarks about Schreber’s 25
26 own awareness of his own nonsenses (which he nonetheless does not give up), in Part II of 26
27 Read (2007). 27

28 14 In talking here of ‘taking’ the world, I have in mind Phil Hutchinson’s work, and in 28
29 particular his concept of ‘world-taking cognitivism’. I am suggesting a possibility in line with 29
30 that explored in 2.2, above, and not explored in Hutchinson’s work: that perhaps there are 30
31 ways of taking the world so extreme that they start *not* to be ways of taking *the world* at all. 31

32 15 See Read and Gregory (2007) for discussion. Therein, we lay out how, while 32
33 Descartes explicitly states that only a madman would, as a matter of fact, be gripped and 33
34 perhaps quite taken in by his kind of doubts (as in prolonged ‘derealisation’), he just does 34
35 not give any sense of how terrifying those doubts would be. As we put it there: ‘taking 35
36 seriously the scenario central to the *Meditations*, that of the malign demon, should have 36
37 generated far more emotional language than Descartes allows himself. The terror that 37
38 should be consequent upon the demon hypothesis, a terror at total cognitive penetration, 38
39 and thought-disorder or terminal confusion, not to mention the terror consequent upon the 39
40 possibility that I have a body and am therefore intensely suffer-able, is barely hinted at in 40
41 Descartes’s text. The focus on the reason of the meditator in radical doubt occludes from 41
42 view the rational terror at unreason or at torture that should follow from Descartes’s own 42
43 hypothesis.’ (Am I being unfair to Descartes in this Section? I think not: Descartes acts as 43
44 though the doubts he has in mind can be contemplated as merely an intellectual curiosity; 44
45 but that (e.g.) another being might actually have total control over my mind cannot be 45
46 actually *contemplated* without dread.) 46

1 It is *too easy*, then, it is *insufficient*, to say something like: ‘fear has an object, 1
 2 whereas radical *angst* or dread does not.’¹⁶ Fear of nothing in particular (*viz.* lasting 2
 3 anxiety states) is the self-perpetuating attraction of the ‘strategem’ of retreat as 3
 4 a way of sealing oneself off against the ‘threat’ offered by objects-in-general.¹⁷ 4
 5 There is *something* right about this insight; but it is as yet too easy, too quick. 5

6 The hermeneutical challenge is harder. For the different psychopathologies 6
 7 sketched above do not fail the reality test – they do not simply get the world 7
 8 wrong.¹⁸ And while they are in large part based, I believe, in what we might think 8
 9 of as would-be ‘self-protective’ manoeuvres, of fearing and guarding against all 9
 10 kinds of possibilities that do not normally bother people much or at all,¹⁹ their 10

11 _____ 11
 12 16 ‘Objectless emotions’ are generally seen as a problem for Cognitivist/existentialist/ 12
 13 Wittgensteinian accounts of the emotions, and thus some see them as tacitly supportive of 13
 14 ‘neo-Jamesian’/Cog.Sci. accounts. See, for example Griffiths (1997). But these emotions 14
 15 concern *ways* of world-taking; Hutchinson’s (2008) ‘World-taking cognitivism’ – in which 15
 16 the world can be ‘taken’ in radically different ways – completely solves the alleged problem 16
 17 with ‘objectless emotions’, I think. And his approach is highly-consonant with mine, as I 17
 18 hope is obvious. But, whether all this is so or not, my approach to *the extreme aversive* 18
 19 *emotions* sidesteps the alleged problem altogether. For I am suggesting that *these* are not 19
 20 properly construed as objectless emotions. They are emotions which are better characterised 20
 21 as internally-related to a *loss of* objects/of world, altogether. 21

22 It might nonetheless be claimed that I am assuming (without giving any argument 22
 23 to support the assumption) that ‘world-taking cognitivism’ is broadly true, because 22
 24 I am *assuming* that persons take the world cognitively/emotionally, or fail to do so, in 23
 25 consequential ways set out herein. ... There is probably some crude level of truth in this 24
 26 claim – i.e. there is probably some trivial (non-)thesis along these lines that I don’t see 25
 27 anyone being able to object to. Simply because I fail to be able to think about *human beings* 26
 27 at all, without making *some* such ‘assumption’. 27

28 17 Laing brilliantly depicts this in the closing sections of his (1965). Furthermore, 28
 29 much of my enterprise in the present paper is clearly traceable back in intellectual lineage 29
 30 to Laing’s (and Sass’s) thoughts on ‘ontological insecurity’. (Note that I use scare-quotes 30
 31 here is an act or an affliction. As set out elsewhere in this Section, whether intentional 31
 32 descriptions are fully appropriate hereabouts is itself an important – and imponderable 32
 33 could consider it here, had we space. 33

34 18 This claim is justified in Sass’s (1994): Sass uses the metaphor of ‘double book- 34
 35 keeping’ to try to gesture at the far stranger reality of schizophrenic delusion: that the 35
 36 delusions do *not* generally displace an accurate grasp both in theory and in practice of 36
 37 the physical and social world. The world is somehow present and yet lost simultaneously; 37
 38 and this simultaneity of contradictories is itself a source of distress or confusion, a push to 38
 39 think through one’s life and mind further, a thinking through that is usually pathological, 39
 40 increasing rather than reducing the problematic. 40

41 19 In a fuller presentation, I would wish to examine in some detail the key nugget 41
 42 of insight in the generally (in my view) unilluminating presentation of neurosis and 42
 43 psychosis alike in cognitive science and ‘cognitive psychology’ (NOT to be confused with 42
 44 ‘cognitivism’ in Hutchinson’s sense); that nugget of insight is the possibility of generating 43
 44 anxiety, including even extreme anxiety, through the risk-averse strategy of considering 44

1 phenomenology goes (self-defeatingly) beyond even that. Perhaps their nature lies 1
 2 in the profoundly different *kind* of world that they phenomenologically present; 2
 3 or better, and harder still, in the absence of a reliable, stable world *at all*. It is the 3
 4 *possibility* of this paradoxical ‘non-place’ in ‘logical space’, hitherto all-too-little- 4
 5 noted in the history of thinking about emotion, reason and mind that I am seeking 5
 6 to draw the reader’s attention towards in this Section. 6

7 In the kind of states I am considering, one is seemingly deprived of the world, of 7
 8 ordinary access to it and of natural presence in it in one way or another. And one is 8
 9 almost certainly further cognitively and morbidly absorbed, terrified or depressed by 9
 10 this, which hardly helps (and explains part of the difficulty in emerging from serious 10
 11 psychological disorder). The difference is, roughly, between ‘objectless’ fear or sadness 11
 12 –i.e. severe but nevertheless ‘merely neurotic’ anxiety or depression – and a generalised 12
 13 ‘objectless-ness’,²⁰ a ‘non-inhabitation’ of a world in which there reliably are objects at 13
 14 all. No object of comparison which itself is capable of relatively straightforward stable 14
 15 statement, presentation, and appraisal is suitable for this possibility. 15

16 Winch, after undermining our presumption that we know how to ‘place’ Zande 16
 17 magic (i.e. as primitive science) had recourse to the object of comparison of 17
 18 *Christian prayer*, to help us see the Azande (see 2.1 and 2.2, above); Kuhn helped 18
 19 us see Aristotelian physics by first taking us about as far from the Newtonian 19
 20 conception as it was possible to go, and giving us another world view (see Part 1, 20
 21 above). The problem of what I am calling extreme aversive cognitions/emotions 21
 22 is harder. An object of comparison which illuminates by similarity must in the 22
 23 present case be an ‘object’ which constantly shape-shifts. The situation is worse 23
 24 even than just objectless-ness, for that too is, or at least *sounds static*. It is not 24
 25 that what I am calling ‘dread’ is fear without an object, but that it is the *absence* 25
 26 of a stable world in which to place anything so ‘harmless’ or sane as fear. One 26
 27 has *withdrawn* from the *world*; or again, the world has withdrawn from one. The 27
 28 world, the totality of facts that is all that is the case, is not, or is no more. Dread is 28
 29 arguably the emotion naturally ‘*appropriate*’ to this deeply paradoxical state, for 29
 30 radical doubt is not, *pace* Descartes, something that can be merely intellectually 30
 31 contemplated as a curiosity. We must contemplate what it would be like to *live* 31
 32 it, to ‘believe’ it, if we are to know what radical doubt truly *is*. Anything else is 32
 33 merely going through the motions and is unserious. 33

34 Mutual aversion²¹ between self and world gives birth to a profoundly aversive 34
 35 state. ‘Dread’, is the consequence of – I am inclined almost to say, it *is* – the state 35
 36

37 _____ 37
 38 even the slightest threat or potential threat as if it were a real and present danger. Such ‘false 38
 39 positives’ play for sure a major role in much anxiety. 39

40 ²⁰ *Perhaps* Heidegger can be read as meaning this when he refers to there being no 40
 41 ‘where’ from which anxiety or dread comes, such that a sense of uncanniness can pervade 41
 42 everything. 42

43 ²¹ But what of a radical doubt of the world, such as at some moments in some forms 42
 44 of Buddhism, which is not aversive? Doesn’t that indicate that my criticism of Descartes 43
 44 *is* after all plainly unfair, excessive? No. Buddhist practice, if it really brackets the world, 44

1 of torture of not being at home *at all* in the social and natural world. Dread is the 1
 2 emotion of the world's limits, and not of its facts or things that can be expressed in 2
 3 language (not even of things that are absent, missing or doubtful). Now consider, 3
 4 in light of the above, the following sequence (part of which we have already 4
 5 considered, in 2.2) from *Culture and Value*: 5

6
 7 The greatest happiness for a human being is love. Suppose you say of the 7
 8 schizophrenic: he does not love, he cannot love, he refuses to love – where is 8
 9 the difference? 9

10
 11 'He refuses to' means: it is in his power. And *who* wants to say that?! 11

12
 13 Well, of what do we say 'it is in his power'? – We say it in cases where we want 13
 14 to draw a distinction. I can lift *this* weight, but I will not lift it; *that* weight I 14
 15 cannot lift (Wittgenstein, 1980: 87). 15

16
 17 Wittgenstein captures the argument I have been essaying in this Section. Profound 17
 18 psychic disturbance can deny its sufferer the resources to be open to us making, 18
 19 with regard to them, the distinctions which are the bread and butter of our socio- 19
 20 psychological interactions with one another. Our concepts give out, hereabouts; 20
 21 our conceptual faculties reach a limit, a limit *of sense*, though not because of a 21
 22 poverty of concepts on our part, nor even on the part of the sufferer. We are not 22
 23 dealing here with a situation like that of understanding an animal, whose concepts 23
 24 are different from and more primitive/'primitive' than ours. Rather, we are dealing 24
 25 here with a systemic *unclarity*. The task of understanding cannot be 'completed', 25
 26 because there is nothing that would count as completing it; even the kind of 26
 27 understanding I am pointing towards in the current Section is strictly '*limited*'. It 27
 28 is limited in roughly the same kind of way as one's understanding of a nonsense- 28
 29 poem faces a hermeneutic limit which there is no such thing as transcending. 29
 30 One might think about it this way: what would it be to 'understand' a nonsense- 30
 31 poem? If one succeeds in 'understanding' it, then hasn't one *ipso facto* failed to 31
 32 understand it? (The logic here is the same explored in 2.2, above). 32

33 To return then to Wittgenstein's formulation: Any understanding will be 33
 34 profoundly difficult, to say the very least: How are we to understand somebody's 34
 35 being unable to make the distinction between 'does not', 'cannot' and 'refuses to', 35
 36 distinctions which we rely on as resources and as a matter of routine? What is it to 36
 37 understand the world of a person not subject to these elementary distinctions? Do 37
 38 we even recognise it as a world at all? The world of the unhappy and of the happy 38
 39 are very different, but they are at least both worlds ... 39

40
 41
 42 involves *meeting* the demons of terror, of dread. Whereas Descartes pretends that one can 42
 43 entertain radical doubt without being in the least emotionally disturbed or unsettled. That 43
 44 is just untrue. 44

1 The kind of unhappiness involved in the total recession of love (that is the case 1
2 which Wittgenstein considers) is of a profoundly different kind to that which we 2
3 are used to trying to understand.²² 3

4 In profound psychopathology, the distinction between *actions* (voluntarily 4
5 undertaken by a person) and *afflictions* (sufferings undergone) *gives out*.²³ But this is 5
6 itself a *limit* to our understanding, or at the very least a most severe impediment thereto.²⁴ 6
7

8 *** 8
9

10 This Section has sketched the hazards incumbent upon insufficiently radical 10
11 attempts to comprehend extreme aversive emotions, attempts that would in one 11
12

13 _____ 13
14 22 For largely like-minded orientation/understanding in the emotions more generally, 14
15 see Heidegger's Parmenides, Agamben's (2004), and (especially) Chapter 4 of Hutchinson 15
16 (2008). On p.146, Hutchinson writes, 'emotional responses to the world are responses of an 16
17 enculturated being to loci of significance in its meaningful world.' Precisely right; and I am 17
18 writing about emotions consequent upon a gross loss or excess of significance, or indeed, 18
19 as I put it, upon a loss of world. 19

20 23 Some might argue that MOST human action is actually neither pure act nor pure 20
21 affliction, and that it is simplifying grammar that forces us to choose and makes us think that 21
22 things should always be described as one or the other. But I would respond: human *action* 22
23 is more, or less, free. Then there are some things that we merely/simplely undergo. What 23
24 it means to say that in severe psychopathology this distinction between act and affliction 24
25 'gives out', is that there are no longer secure criteria, *for the sufferer themselves or (as a* 25
26 *result) for anyone else*, as to whether one is acting more or less freely or merely suffering/ 26
27 undergoing something. Any attribution of act or affliction as the relevant category becomes 27
28 increasingly impositional, as the degree of severity of pathology increases (for further 28
29 discussion, see Part II of Read (2007a)). At some risk of over-generalisation, and awfully- 29
30 quickly, roughly: Is a depressed person – in their depression itself, in an automatic chain of 30
31 negative thoughts – acting, or afflicted? Hard to say. Is a severely/radically depressed or a 31
32 schizophrenic person – in their psychotical experiences themselves, in a 'worldless' state – 32
33 acting, or afflicted? *Impossible* to say. In principle, not only in practice. 33

34 24 And this kind of thing is what 'neo-Jamesian' theorists of the emotions, such as 34
35 Hutchinson reads Paul Griffiths to be, can *in no way* make sense of. Their analysis, best- 35
36 suited (I submit) to emotions common to both human and non-human animals (although in 36
37 the end often pretty hopeless and vapid even there, as Hutchinson demonstrates), just has 37
38 no bearing at all, where our conceptual faculties reach a limit, and so where a quasi-artistic 38
39 presentation – in which we test our language and our facility with words to the limit – 39
40 becomes essential. The neo-Jamesians *have nothing to say* about the emotion that fits a true 40
41 felt '*loss of objects/world*'. For: It is not reflection nor introspection nor even vicious spirals 41
42 of anxiety nor anything like that that we mean when we say that Jamesians are committed 42
43 to the inward-facing-ness of emotions. Rather, they believe emotions to be, centrally, 43
44 *perceptions of sensations*; this is their core commitment. 'Cognitivism' in Hutchinson's 44
45 sense is outward-facing, active, evaluative; Neo-Jamesianism is inward-facing, reactive, 45
46 perceptual. When I talk of inward-facingness, it has a component of *consciousness* that is 46
47 lacking from the neo-Jamesian account. 47

1 way or another assimilate what I am calling dread to ‘mere’ anxiety, or to fear. I 1
 2 have in particular tried to characterise the (severe) difficulty in comprehending 2
 3 true dread. Perhaps ironically, following the general strategem of Winch (and 3
 4 Kuhn), I have *thereby* (I hope) started to make it easier to understand. Sometimes 4
 5 the best – the only – way of approaching something is indirectly. 5

6 That is to say that what unites (to take but three examples, three influential 6
 7 examples for the present work, whose repetition in different contexts I hope 7
 8 enriches) Wittgenstein’s remark from *Culture and Value* above, Winch’s 8
 9 initial moves with the Azande, and Kuhn’s attempts at making defunct science 9
 10 inaccessible, is the following thought: that the first move toward understanding 10
 11 truly the ‘alien’ (insofar as we can understand it at all) is to emphasise just how 11
 12 distant from us it *is*, and to undo the attractions of ‘false friends’. What makes 12
 13 Winch and Kuhn profoundly Wittgensteinian thinkers is their active prevention 13
 14 of the premature rush to ‘understand’, to assimilate, their teaching of differences, 14
 15 and their emphasis on the provision of new, less expected objects of comparison.²⁵ 15

16 The felt lack of freedom of the mind in the grip of psychopathology, like 16
 17 its analogue in philosophy – here, the pregnant parallel that Sass exploits so 17
 18 effectively – is, I have suggested, yet stranger than what Winch and Kuhn are 18
 19 foregrounding: for the surety of mind, and world, and others, and love, *at least* 19
 20 *as categories*, is just what is no longer securely present. And thus, there is what I 20
 21 have called dread: being afraid of *everything*, including crucially of ‘things’ that 21
 22 are not things at all (such as ‘sense-data’ in themselves);²⁶ or, *infinite* fear (bearing 22
 23 in mind here Wittgenstein’s understanding of the infinite as *utterly* different to the 23
 24 finite²⁷); or, utter distress at being unable not to bracket; or, profound *aversion to* 24
 25 *the state of not being able to distinguish at all between mind and world*. Terror not 25
 26 at this or that, nor even quite at nothing, but rather at [[nothing]], or at *nothing* ; 26
 27 or at the alienation that this journey inevitably involves. 27

28 Not fear without object, but a torturing profoundly-terrifying and sometimes 28
 29 seemingly ‘total’ *loss of objects*.²⁸ This is as close as I can see one coming to an 29
 30 30

31 25 For detail on what I have in mind here, see Baker’s (2004) excellent late work. 31

32 26 Being afraid of everything might awfully sound like being afraid *sans object*; but 32
 33 that is why my qualification above is crucial. One is afraid of ‘non-things’ too; one’s entire 33
 34 mode of experiencing the world has shifted, such that it is misleading to talk of ‘the world’ 34
 35 any more, for fear of reminding us too much of what that term is freighted with, for us. For 35
 36 detail, see for example chapters 8 – 10 of Sass’s (1992), on ‘phantom concreteness’, ‘world 36
 37 catastrophe’, etc. 37

38 27 See my Part III of Read (2007a) for some discussion; I have particularly in mind 38
 39 remarks of Wittgenstein’s (1964/1975) such as ‘It isn’t just impossible ‘for us men’ to run 39
 40 through the natural numbers one by one; it’s *impossible*; it means nothing.’ (p.146); and 40
 41 ‘Where the nonsense starts is with our habit of thinking of a large number as closer to 41
 42 infinity than a small one’ (p.157). 42

43 28 Not, that is to say, objectless fear, but a state where even the *issue* of objects (of 42
 43 fear) or their absence is no longer assured, is no longer central. Where having nothing to 43
 44 fear is no longer the main problem, because the environment in which it makes sense for 44

1 exposition of what I've called dread. That it may not be close enough tells one, 1
 2 I believe, something deep about the limits of the intelligibility of the quest of 2
 3 psychiatry. 3

4 This take on extreme aversive emotion is of such emotion as no longer based 4
 5 on a reading/active-taking of the world, not even just a very perverse one. Yes, 5
 6 all sorts of internal relations are active that shouldn't be so and aren't so for the 6
 7 sane/rational person, and *vice versa*; but, furthermore, that which internal relations 7
 8 *relate* to one – the world, others – has/have been lost. 8

9 Concepts come to an end 'somewhere'. One such 'place' (or, rather, set of 9
 10 'places'), is the non-place – the un-world – that is (are) the hell(s) of loss of objects 10
 11 and others. In attempting to avoid misunderstanding such a non-place(s), one is 11
 12 therefore naturally 'reduced' to reaching for literary-philosophical presentations 12
 13 of the phenomena. One is required, that is, to use terms that deliberately court 13
 14 paradox (e.g. 'non-place'), and to use terms in ways that bump right up against 14
 15 the 'limits' of our customary understanding and use of them. One needs, as I 15
 16 have done – repeatedly – even in this short piece, to go around and around this 16
 17 (most unstable of) landscape(s), sketching, torturing language, in order to try to 17
 18 learn one's way about and to help others to do the same. Indeed, to have a chance 18

19
 20 one to 'have' *objects* at all is no longer assured, no longer present (Cf. my discussion of 20
 21 'Renee' in Read (2007a). 21

22 A further question naturally raises itself at this point, a difficult question which would 22
 23 take another paper at least to answer, but that it would be remiss of me not at least to 23
 24 mention: what makes the difference between psychopathology and mysticism? Don't some 24
 25 mystics too 'lose the world', but in a way that is not experienced by them as painful, and 25
 26 which does not incapacitate them? 26

27 In very brief: I think the essence of the difference lies in *confidence*, and *non-attachment*. 27
 28 I explain the former in my [In preparation]. The latter is examined with dexterity in Mark 28
 29 Epstein's work (especially his 1999). But what Epstein and a number of key Buddhist 29
 30 thinkers (including, crucially, Nagarjuna) have also pointed up is the absolutely crucial 30
 31 point that actually most successful mysticism does NOT in fact involve a loss of world 31
 32 (nor even a loss of self). It involves no *loss*; in a particular and oft-misunderstood sense, it 32
 33 involves finding self, world etc. to be 'empty', but this 'emptiness' is itself empty (rather 33
 34 than being felt as, as I believe it is in psychopathology, the one full thing). It involves only a 34
 35 loss of a fantasy of self, an *affirmative* realisation of the 'emptiness' of self – and an *opening* 35
 36 to the world. Whereas in one way or another, as in my four psychopathological 'scenarios' 36
 37 outlined above, most (though admittedly of course not all) psychopathology involves a kind 37
 38 of 'drowning' in self, and in fact a *substantiality* of self that delivers the *opposite* of what its 38
 39 constructor hopes for. It involves a retreat as if into something substantial, full. 39

40 In Buddhist terms, in fact: fear is a form of suffering; anxiety is the predominant form 40
 41 of suffering from that suffering, or at least an extended form of that suffering even when 41
 42 its 'conditioning' object is not present; and what I am calling dread is a kind of suffering 42
 43 felt as if beyond any suffering, because no objects at all are securely present any more (and 43
 44 nor in the ordinary sense is there any longer any security in categories such as 'mind' or 44
 45 'suffering') and this is felt as a terrifying and unworlding lack, not as an insight nor simply 45
 46 an experience. 46

1 of *getting* dread, one has *in a certain sense* to *mimic* the systemic tendencies to 1
2 delusion or confusion or loss that it involves.²⁹ 2

3 So: I have offered no theory, in this Section. I have offered some terms, some 3
4 forms of words, some uses that (I hope) may make it at least *easier* to avoid 4
5 misunderstanding the extreme aversive emotions. And to help one understand what 5
6 the mind rebels at: their extremity; their (literal) unworldiness; something stranger 6
7 perhaps than is dreamt of even in Heidegger's or Kierkegaard's philosophies.³⁰ 7
8 *The objectlessness of psychotic dread becomes a lack not just of an object* 8
9 *but of a world (at all)*. In saying things like this, I have inevitably bumped up 9
10 repeatedly against the limits of our language: those bumps have been deliberate, 10
11 and *themselves* offer what insight, if any, my writing here attains to. I have circled 11
12 around and around – I have offered formulation after formulation, in the course 12
13 of this Section – in an effort to come up with liberating words, words that do not 13
14 *merely* bump. 14

15 And so then: if I have offered anything positively useful here, by extending and 15
16 applying Wittgenstein's style of thinking and some gems of his thought, it is this: 16
17 the initial delineation of a conceptual possibility for the nature and 'understanding' 17
18 of extreme aversive emotion that has not ever previously been made clear. A more 18
19 useful verbal object of comparison for dread than has hitherto been offered. An 19
20 insight into how Wittgensteinian thinking can offer insight into human thinking *in* 20
21 *extremis*, an insight greater than that offered by mainstream psychiatry, an insight 21
22 necessarily bounded by its sense of its own limits and/as of the limits of sense.³¹ 22

23
24 *** 24
25 25

26 Before we turn to examine a specific different 'human science' (economics), a final 26
27 word: about the possible implications of the discussion above for the 'politics' of 27
28 social/human science, and for reflexive considerations hereabouts. To begin this, 28
29 here is a long quote from a relevant recent article by Timo Jutten (2010) on Adorno 29
30 and Kant: 30

31
32 I can think of two ways in which Adorno might have developed his metacritical 32
33 analysis into a phenomenology of defective self-conceptions. They examine 33
34 34
35 35

36 29 For detail on what my use of the term 'mimicry' here amounts to, see Part II of 36
37 Read (2007), especially my discussion there of 'creative mimicry'. 37

38 30 Though that (e.g.) both objects and the nothing themselves noth is, as intimated 38
39 at the opening of this Section, a pretty good place to start in getting 'someplace' in 39
40 comprehending this unworldiness. 40

41 31 Thanks for suggestive ideas and helpful comments on this Section to Alun Davies, 41
42 Jeff Cumberland, Louis Sass, Laura Cook, Eugen Fischer and (especially) to Anne J. 42
43 Jacobson. Grateful acknowledgements to Phil Hutchinson for a very fine detailed set of 43
44 comments on an earlier draft of this Section, comments which I doubt I have done justice 44
44 to. All remaining flaws are of course in any case mine alone. 44

1 what happens when modern subjects make theoretical reason authoritative 1
 2 over *themselves* or *others*. In the first case I have a form of self-reification in 2
 3 mind, which articulates itself in an attitude that Axel Honneth, following David 3
 4 Finkelstein, has called ‘detectivist’. Here, ‘the subject is conceived as a detective 4
 5 who possesses privileged knowledge of his own desires and feelings because 5
 6 he has undertaken a search in his own mental world and ‘discovered’ these 6
 7 desires and feelings’... As Adorno points out, in pathological cases (which are 7
 8 neurotic [and may well be psychotic, as in this Section]) the subject experiences 8
 9 its (sic.) own unfreedom when it cannot identify with its own inner nature. In 9
 10 the second case I have the attitude in mind that we take toward others when we 10
 11 consider them from the standpoint of theoretical reason. As Peter Strawson has 11
 12 pointed out, when we take such an ‘objective attitude’ toward others or treat 12
 13 them as ‘object[s] of social policy’, then we evaluate their conduct in terms of 13
 14 causal explanations rather than in terms of freely chosen intentions. Clearly, if 14
 15 theoretical reason becomes authoritative over us in either of these ways, our 15
 16 self-relation and social relations will be severely damaged, and the pathology of 16
 17 this damage will be traceable to the need to dominate nature in the first place. 17
 18 (Jutten, 2010: 26)³² 18
 19 19

20 Without wanting to commit myself to all the particulars of this diagnosis, I would 20
 21 like to broadly embrace the analysis Jutten makes here. What is I think particularly 21
 22 striking about it, in the broader context of Section 2.3 of this work (and of this 22
 23 work more generally), is this: 23

24 The ‘first case’, of self-reification, reflects some aspects of what has been 24
 25 under discussion here in 2.3 and also in 2.2, above. As Louis Sass has argued at 25
 26 length, there are extensive instances available of such psychical self-reification in 26
 27 the literature on schizophrenia (especially in cases of paranoid schizophrenia; of 27
 28 Laingian ‘divided selves’; etc.). In other words, as discussed in this Section: this 28
 29 important form of self-reification is a natural result of some forms of psychosis 29
 30 (and of some forms of neurosis). 30

31 While the ‘second case’, of reification of others, reflects, as Jutten explicates or 31
 32 implies, the mode of ‘being in the world’ typical of social policy, of social science, 32
 33 of psychology and psychiatry considered as sciences... 33
 34 34

35 _____ 35
 36 32 The closing sentence here connects back to the epigraph from Heidegger to this 36
 37 Section, and forward to the final long footnote of my Concluding Summary, below. In the 37
 38 future work indicated there, I will seek to understand the way in which we incline to treat 38
 39 ourselves, others *and nature* as things by seeing them through the lens of science (and of 39
 40 economics, seen as a science). (In Jutten’s terms, following and extending Horkheimer 40
 41 and Adorno’s *Dialectic of Enlightenment*, this dangerous way of treating ourselves would 41
 42 be called an over-extension of ‘theoretical reason’ into the domain of ‘practical reason’, 42
 43 manifesting in reification (Cf. also McGilchrist (2009:333). From my standpoint, of course, 43
 44 there is a standing risk that ‘Critical Theory’, in its valorisation of social etc. science and of 44
 45 ‘theory’, itself simply repeats, in the name of denying it, the gesture of such over-extension.) 44

1 And these two cases are two sides of the same coin: broadly the same attitude, 1
 2 applied to *the self*, and to *others*. 2
 3 Do you see where this is going? ... The very attitude that philosophically- 3
 4 informed reflection can help us to see is of the essence of various psychopathological 4
 5 phenomena, when directed onto oneself, *is* the attitude that social/human/ 5
 6 psychological science *recommends* one takes up with regard to others. The 6
 7 'scientific' study of the mind of the other *mirrors the very pathology that it aims* 7
 8 *to 'explain'*.³³ Social/human/psychological 'science' is an *expression* of such 8
 9 pathology (And such pathology can only be understood, if at all, (only) from a 9
 10 different basis than that of such 'science': the kind of basis I have endeavoured to 10
 11 examine and to offer some fragments of, in this and the previous Section(s)). To 11
 12 approach the human world predominantly from such a (pathological) perspective 12
 13 is to approach it like an *alien*: like an anthropologist from a Mars that machines, 13
 14 rather than men, are from. 14

15 This, if true, is a remarkable and worrying finding. 15

16
 17 *** 17

18
 19 The Section that follows displays, I believe, a classic for-instance of this: that of 19
 20 Milton Friedman's vastly-influential economic methodology. 20

21
 22
 23
 24
 25
 26
 27
 28

29
 30 33 An important for-instance of this can be found in 'Theory of Mind' theory. This 29
 31 theory aims to explain what it is that autists are missing. But in the course of doing so what 30
 32 it actually attributes to normals is the very thing that autists aim and struggle to develop 31
 33 to replace what it is that they are actually missing: an easiness at being-in-the-world, the 32
 34 normal 'affordances' of the world, etc. . It says that normals *have* such a theory: But *that* 33
 35 *is to make all normals into brilliantly-coping autists*, rather than to characterise adequately 34
 36 the difference between normals and autists. Claiming that we all have a ToM *theory*, that 35
 37 autists lack, and that the grasp of this theory by scientific psychologists is the scientific 36
 38 progress enabling us to see this, is to place *all* of us – normals, autists, *and* psychologists 37
 39 – on the Autism spectrum. To put the point just slightly polemically: 'ToM' is exactly the 38
 40 theory of mind that one would expect a *high-functioning autist*, rather than a properly right- 39
 41 brained normal, to come up with. Its wide acceptance indicates something deep, in my 40
 42 view, about how right McGilchrist is about the extent to which left-brain scientism has 41
 43 overtaken our culture, and also about how deep Wittgenstein's worries about the tendency 42
 44 of 'scientific' thinking to lead us to pathologically over-generalise and reify cut. *ToM is* 43
 44 *a heightened and subterranean form of the very disease of which it takes itself to be the* 44
 44 *explanation and solution.* 44

1	<i>Economics</i>	1
2		2
3		3
4	2.4 Wittgenstein <i>contra</i> Friedman	4
5		5
6		6
7	Positive economics is in principle independent of any particular ethical position or	7
8	normative judgments ... [It] is, or can be, an 'objective' science, in precisely the	8
9	same sense as any of the physical sciences ...	9
10	Milton Friedman, 1953, <i>The Methodology of Positive Economics</i> .	10
11		11
12	DIFFICULTY OF PHILOSOPHY NOT THE INTELLECTUAL DIFFICULTY	12
13	OF THE SCIENCES, BUT THE DIFFICULTY OF A CHANGE IN ATTITUDE.	13
14	RESISTANCES OF THE WILL MUST BE OVERCOME.	14
15	Ludwig Wittgenstein, opening remark in the chapter entitled 'Philosophy' of <i>The Big</i>	15
16	<i>Typescript</i> .	16
17		17
18		18
19	This Section in effect juxtaposes the very different attitudes expressed by the	19
20	two epigraphs that I have chosen for it. Friedman wants to model economics	20
21	on the physical sciences; Wittgenstein by contrast thinks that science offers a	21
22	misleading model for humanistic work, e.g. for work in philosophy (and I will	22
23	here add: in economics, much of which, as Winch might have said, is 'misbegotten	23
24	metaphysics' (or misbegotten maths)). Wittgenstein thinks that we are inclined to	24
25	<i>resist</i> the change in orientation that he is calling for, and that it is targeting this	25
26	resistance, and not the kind of intellectual puzzle-solving work typical of science,	26
27	that ought to be our main focus of effort, hereabouts.	27
28	Thus this Section further essays and applies Wittgenstein's 'method', and	28
29	consists of an outline effort to apply a broadly (and at one point a very specifically)	29
30	Winchian approach to a key test-case, namely a leading 'scientific' approach to	30
31	what is often thought of as the best of the human or social sciences, so far as	31
32	its 'scientific' credentials are concerned: namely, of course, economics. (One of	32
33	our questions then will be similar to the question we have asked, and answered	33
34	in the negative, in 2.2–3, above, with regard to psychiatry: whether economics	34
35	is a discipline that can prescind entirely from the character of philosophy, as	35
36	Wittgenstein and Winch understand philosophy.)	36
37	It is over half a century since Milton Friedman (1953) published his 'definitive'	37
38	methodological paper, <i>The Methodology of Positive Economics</i> . That paper is	38
39	certainly not as widely and uncritically loved within economics as it once was;	39
40	but on the other hand it has not been superseded, and is still in some places taught	40
41	as a locale of reliable methodological maxims; most importantly, its influence still	41
42	widely permeates economics textbooks. Or at least, many mainstream economics	42
43	textbooks still read <i>as if</i> they are structured around the background more or less of	43
44	Friedman's methodological approach ...	44

1 Friedman taught Economics as a discipline comprehensible in a broadly 1
 2 instrumentalist or ‘positivist’ fashion,¹ prescinding entirely from the human status 2
 3 of its actors, and, just as crucially, and perhaps concomitantly, as a discipline that 3
 4 could (allegedly) prescind entirely from normative issues. Like all social science, 4
 5 Friedman’s stance implies radically ‘leaving’ one’s society in order to understand 5
 6 it. Over the past generation, the standing of Positivism in economics has been 6
 7 increasingly challenged, but there is reason to believe that it has never really been 7
 8 overcome or advanced upon within mainstream economics. 8

9 Let us consider a possible objection to what I have so far suggested: ‘Friedman’s 9
 10 paper was the definitive statement of economic methodology – of the ‘philosophy’ 10
 11 of economics – for about 25 years, up until the late 1970s; and it has not been 11
 12 replaced; *but* there has been a seeming gradual shift from the notion of constrained 12
 13 maximisation which conditions the Friedmanian approach to game theory, which 13
 14 has risen as an alternative ‘paradigm’ to Friedman’s.’ 14

15 Though I cannot argue the point in detail here,² my reply would be that the 15
 16 objection here that game theory, and ‘rational choice theory’ more generally, is 16
 17 actually not in any meaningful sense an alternative ‘paradigm’ to Friedman’s; 17
 18 in *fundamental* respects, the two barely differ, and nor does the recent tendency 18
 19 toward the explicit introduction of psychological ideas into the positivist approach 19
 20 usually make any significant difference. A key reason why is that the ‘rational 20
 21 choice’ model and the psychological assumptions in question assume as their 21
 22 standard case (from which they allow occasional departures) the same selfish 22
 23 *individual* as is simply assumed in Friedman.³ 23

24 The great advantage of positivism as (formerly) an explicit or (latterly) 24
 25 a perhaps-unconscious ideology in economics is of course that the scientific 25
 26 nature of the discipline is then – seemingly – assured. The longevity, in effect, of 26
 27 Friedman’s work is, I believe, a symptom of the continued domination in the social 27
 28 sciences by the very images that Peter Winch questioned half a century ago, and, 28
 29 for that reason, I question the philosophy of the social/human sciences which is 29
 30 both implicit and explicit in Friedman’s piece. Winch never explicitly considered 30
 31 Friedman’s work, and Wittgenstein died before he had a chance to; my aim here is 31
 32 to do what they did not: namely, to invite the reader to doubt Friedman’s influential 32
 33 33

34 _____ 34
 35 1 For my purposes, in the present context, there is no need to distinguish between 35
 36 positivism and instrumentalism; these closely-related doctrines have much the same flaws, 36
 37 and the same result(s). 37

38 2 I have done so in Read (2007b). Where I also make the case that economics is / 38
 39 ought necessarily to be philosophy / philosophical. 39

40 3 For anyone who doubts the fundamental idea here, of the way in which the ‘agents’ 40
 41 in game theory, and in psychological experiments in economics, are reduced to machines, 41
 42 I recommend Mirowski (2002). Compare also ethnomethodology’s figure of the ‘cultural 42
 43 dope’, who bares certain resemblances to the ‘robots’ of Friedmanian fantasy. (Of course, 43
 44 strictly speaking, the ‘cultural dope’ would be much more socially incompetent than the 43
 44 stock characters of Friedmanian maximisation.) 44

1 claim to have produced a methodology suitable for the explanation of human/ 1
 2 social action in the economic ‘domain’, and to doubt Friedman’s grounds for the 2
 3 founding of a positive science of economics. 3

4 Once one has read Friedman with a roughly Wittgensteinian sensibility, one can 4
 5 start at last to think about the sense in which the social science (namely: economics) 5
 6 which seems to have the strongest claim to scientificity, so much so that it has at 6
 7 times eschewed even the prefix social, actually *is* a science. Or, indeed, is not. I 7
 8 shall begin by considering in some detail the example around which Friedman 8
 9 *built* his still-influential understanding of economics as a ‘positive’ science. I 9
 10 quote from the founding example, the seminal moment, in Friedman’s paper:⁴ 10

11 11
 12 Let us turn now to [an] example, a constructed one designed to be an analogue 12
 13 of many hypotheses in the social sciences. Consider the density of leaves around 13
 14 a tree. I suggest the hypothesis that the leaves are positioned as if each leaf 14
 15 deliberately sought to maximize the amount of sunlight it receives, given the 15
 16 position of its neighbours, as if it knew the physical laws determining the amount 16
 17 of sunlight that would be received in various positions and could move rapidly 17
 18 or instantaneously from any one position to any other desired and unoccupied 18
 19 position. (Friedman: 1953: 19) 19

20 20
 21 I will not dwell on the highly-problematic vagueness (and thus vacuity?) of 21
 22 this ‘hypothesis’, *even if* I were notionally to grant its stunningly unrealistic 22
 23 assumptions; the risibility involved, for instance, in having to think of each leaf 23
 24 as already existing *prior* to its ‘choice’ as to where to go, the lack of any attention 24
 25 paid to the branches and twigs that support and nourish each leaf. Can the leaves 25
 26 move to any ‘desired and unoccupied position’... in the world? Of course not. 26
 27 Nor will I overly concern myself with the glorious ignorance of the actual nature 27
 28 of hypotheses in the physical or biological sciences that Friedman worryingly 28
 29 exhibits.⁵ 29

30 30
 31 31
 32 4 It is worth remarking that Friedman’s undoubted influence does not equate to the 32
 33 deservedness of that influence, even within his ‘school’: in a fuller presentation, we should 33
 34 probably focus as much or more on the more solidly, less incoherently-argued (though still, 34
 35 I would claim, ultimately quite worthless) claims of Paul Samuelson as to the scientificity 35
 36 of economics. See Mirowski (1989: 378) for amplification of Samuelson’s claim (over 36
 37 Friedman’s) to be the real apogee and fount of ‘economics as science’, in recent times. 37
 38 Samuelson is of course famous as a key *critic* of the paper of Friedman’s under discussion 38
 39 here. See, e.g., Samuelson (1963). By my lights, Samuelson’s is entirely an ‘internal’ 39
 40 critique, and ultimately a sympathetic critique. It fails entirely to register the real reasons 40
 41 why Friedman’s *paradigm* needs overcoming. 41

42 5 Friedman’s lunatic idea of what a paradigm example of an assumption in natural 42
 43 science might look like surely obscures the sense in which actual natural scientists arguably 43
 44 *do* insist on realistic assumptions. That is, they will not, in what Kuhn calls ‘normal’ science 44
 44 (i.e. in virtually all science – See Part 1 of the present work, above), even *countenance* any 44

1 Of more interest, for present purposes, is the following feature of this massively 1
 2 influential ‘example’ for Friedman’s subsequent discussion: this ‘analogue of 2
 3 many hypotheses in the social sciences’ has the singular hidden advantage over 3
 4 (virtually) any actual instance in the natural sciences that human being and social 4
 5 action are ‘smuggled in’ to a picture in which they should not feature. The leaves 5
 6 precisely behave here as (if they are) conscious beings, and moreover, utility- 6
 7 maximising conscious beings. Thus, *Friedman smuggles into his key example 7*
 8 *of ‘natural’ science the very tendentious vision of social science that he will 8*
 9 *want subsequently to foist upon his readers*⁶, but also a feature of human/social 9
 10 existence that he will want to ignore (or occlude)! 10

11 So Friedman wants us to forget that his assumptions here include, albeit in 11
 12 a debased ‘utility-maximising’ version, a model of human action/consciousness 12
 13 that the alleged economic laws he will mention or describe to us are supposed to 13
 14 occlude. Friedman’s example ‘works’, and it is hard to think that this could be 14
 15 accidental, because it is presented as a ‘*natural science*’ hypothesis, relying upon 15
 16 an analogical appeal to the human/social world. By a neat piece of symmetrical 16
 17 – though fallacious – reasoning, Friedman can then make it seem natural that 17
 18 *human/social science* ‘hypotheses’ should work because of an analogical appeal 18
 19 to the *natural* world. That is what he wants: for natural science to be the model for 19
 20 human and social science. *That* is what this example is supposed, by means of a 20
 21 deeply dubious and roundabout rhetorical method, to get for him. 21

22 Let us return to Friedman’s text: 22

23 23
 24 Some of the more obvious implications of this hypothesis are clearly consistent 24
 25 with experience: for example, leaves are in general denser on the south than on 25
 26 the north side of trees but, as the hypothesis implies, less so or not at all on the 26
 27 northern slope of a hill or when the south side of the trees are shaded in some 27
 28 other way. Is the hypothesis rendered unacceptable or invalid because, so far 28
 29 as we know, leaves do not ‘deliberate’ or consciously ‘seek’, have not been to 29
 30 school and learned the relevant laws of science or the mathematics required to 30
 31 calculate the ‘optimum’ position, and cannot move from position to position? 31
 32 32

33 assumptions which do not fit the actual ‘furniture of the universe’ that their paradigm allows 33
 34 for them. For detail on this aspect of Kuhn, see Sharrock and Read (2002). 34

35 6 It might be objected here that Friedman’s conclusions do not depend on his dubious 35
 36 assumptions (or, if you prefer, the dubious lack thereof) concerning human nature and 36
 37 concerning science, but can be derived simply by considering the relevant maximisation 37
 38 problem as an ‘engineering’ problem. But that would be to beg the question against the 38
 39 approach I am pursuing in the present paper. I claim, more or less following Mirowski, 39
 40 that the analogy between economics and the engineering and physics ideas and models 40
 41 and metaphors it arguably depends on is in fact a dangerously inexact one, such that it is 41
 42 unclear whether we can buy into the idea of ‘maximisation’ which is central to Friedmanian 42
 43 economics (as it is also to the ordinalism (and in a way also to the marginalism) that 43
 44 Friedman drew together and pithily rendered) *without* buying into a *pseudo-scientific* and/ 43
 44 or morally corrupting rendition of human beings as utility-maximisers. 44

1 Clearly (sic.), none of these contradictions of the hypothesis is vitally relevant; 1
 2 the phenomena involved are not within the ‘class of phenomena the hypothesis 2
 3 is designed to explain’; the hypothesis does not assert that leaves do these things 3
 4 but only that their density is the same as if they did. Despite the apparent falsity 4
 5 of the ‘assumptions’ of the hypothesis, it has great plausibility because of the 5
 6 conformity of its implications with observation. (Friedman 1953, 19–20) 6
 7 7

8 The use of the word ‘plausibility’ in the last sentence quoted here is worthy of note: 8
 9 any reader who finds that Friedman has generated thus far any genuine *plausibility* 9
 10 for his ‘hypothesis’ is of a very different cast of mind from myself. However, 10
 11 let us grant, for the sake of argument, the following two – dubious and highly 11
 12 ‘unrealistic’, given what we have seen in Part I of the present work – assumptions: 12
 13 that roughly thus is how things go in natural science; and that there is in natural 13
 14 science no need whatsoever for realistic assumptions. Now, if so, what should one 14
 15 conclude about ‘human/social science’? What are the ‘plausible’ parallels between 15
 16 the two?: 16
 17 17

18 A largely parallel example[:] Consider the problem of predicting the shots 18
 19 made by an expert billiard player. It seems not at all unreasonable that excellent 19
 20 predictions would be yielded by the hypothesis that the billiard player made 20
 21 his shots *as if* he knew the complicated mathematical formulas that would give 21
 22 the optimum directions of travel, could estimate accurately by eye the angles 22
 23 etc., describing the location of the balls, could make lightning calculations form 23
 24 the formulas, and could then make the balls travel in the direction indicated by 24
 25 the formulas. Our confidence in this hypothesis is not based on the belief that 25
 26 billiard players, even expert ones, can or do go through the process described; 26
 27 it derives rather from the belief that, unless in some way or another they were 27
 28 capable of reaching essentially the same result, they would not in fact be *expert* 28
 29 billiard players. (Friedman: 1953: 21) 29
 30 30

31 Something about the last sentence, I would suggest, generates a specific impression 31
 32 of dubiousness. One perhaps senses that Friedman has stacked the deck, in that his 32
 33 chosen example this time is one in which the laws of physics dictate the answer.⁷ 33
 34 34

35 35

36 ⁷ Moreover, Friedman has chosen an example in which the action-problem can 36
 37 be precisely described as a computation-problem, which is something that, for example, 37
 38 the Austrian school would (rightly) say is very disanalogous to economic activity – see 38
 39 Mirowski’s work for subtle discussion of this point. Hayek, Von Mises et al, in their critiques 39
 40 of the ambitions of ‘scientific’ economics (e.g. of Socialist ‘planned economy’ economics, 40
 41 but also of neoclassical economics), do not make the same errors; though arguably they 41
 42 do still assume what Cole (1999:33) terms ‘the subjective preference theory of value’ – 42
 43 i.e. they take the consumer as the fundamental economic unit, and thereby make (often 43
 44 dangerous and repugnant) political *assumptions*, under the guise of assuming a reasonable 44
 44 and ‘neutral’ account of human nature. 44

1 The ‘as if’ here is really just a stand-in for something like the following claim: 1
 2 making certain balls go in certain precise directions is a matter of physics. 2

3 However, how could that possibly be surprising, or enlightening? Friedman 3
 4 wants to explain human behaviour scientifically, but his example is one that has 4
 5 been chosen in such a way as to beg the question. All he has really described is 5
 6 the motion of certain balls on a flat surface, not any *human behaviour* at all! *Of* 6
 7 *course* the motion of billiard balls is a matter of physics: in fact, it has been used 7
 8 frequently by philosophers (think of Hume) as a *paradigm* example of such. 8

9 Of course, a different way of emphasising Friedman’s chosen example here 9
 10 would be more helpful, in getting us some way toward having an account of 10
 11 human behaviour: one might draw attention to the *various* qualities involved in 11
 12 *being* an ‘expert’ on billiards: for instance, doesn’t one for starters have to know 12
 13 *the rules of the game* very well? Doesn’t one further have to know many things 13
 14 which are in no rule-book, such as how to strategise putting a big score together, 14
 15 *via* the various allowed moves in the game; and how to outwit or worry one’s 15
 16 opponent? But these variegated things are *none* of them things that the laws of 16
 17 physics can tell us (more than) *the slightest thing* about. Recall what Friedman 17
 18 took his problem to be: ‘predicting the shots made by an expert billiard player.’ 18
 19 Well, in a way, Friedman’s ‘hypothesis’ can tell us something about where the ball 19
 20 is likely to go once the player has begun to take the shot; but it can tell us nothing 20
 21 whatsoever about what shot the player is likely to choose, or why. For that, we 21
 22 would have to learn how to play billiards, the rules of the game, how someone 22
 23 becomes a *good* player, what the particular ‘knacks’ and tactics of this (as opposed 23
 24 to that) player are, and so on. 24

25 In short, if we were ignorant of billiards, then a little human/social study would 25
 26 certainly help us, and the heart of that study would be: really *understanding* the 26
 27 *game* (where *game* is a concept entirely remote from anything susceptible to 27
 28 scientific laws). That is what would start to give us a sense of for instance ‘optimum 28
 29 directions of travel’ for billiard balls. But then this way of putting Friedman’s 29
 30 example would hardly look any more as if it presented us with a piece of human 30
 31 behaviour explained by a kind of quasi-natural science, for the ‘explanation’ would 31
 32 be an understanding, as from within, of a broadly hermeneutic or ‘anthropological’ 32
 33 kind. We would be returning, then to the territory best-described by the likes, not 33
 34 (of course) of Friedman, but of (the likes of) Peter Winch and of ethnographers 34
 35 (not to mention expert billiards players, commentators, etc.). 35

36 Friedman moves directly from his (failed) ‘account’ of human behaviour to an 36
 37 ‘account’ of social behaviour: 37

38 38
 39 It is only a short step from these examples to the economic hypothesis that under 39
 40 a wide range of circumstances individual firms behave *as if* they were seeking 40
 41 rationally to maximise their expected returns, and had full knowledge of the 41
 42 data needed to succeed in this attempt; *as if*, that is, they knew the relevant cost 42
 43 and demand functions, calculated marginal cost and marginal revenue from all 43
 44 44

1 actions open to them, and pushed each line of action to the point at which the 1
2 relevant marginal cost and marginal revenue were equal. (Friedman, 1953: 21) 2
3 3
4 As if, that is, these firms knew ‘the laws of economics’. But, if my line of reasoning 4
5 above is convincing, one has gained *no* understanding of this situation yet from the 5
6 Friedman’s ‘analogies’ with the leaves on the tree, or the billiard player. 6
7 What is rather striking about the new explicitly ‘economic’ examples Friedman 7
8 mentions is that the assumptions he makes are perhaps not so unrealistic after 8
9 all. Is Friedman’s hypothesis here a *relatively* good one, not because he has 9
10 *somehow* (how?) found a hypothesis that theorises the domain in question, albeit 10
11 an allegedly unrealistic one, but rather because, with a little translation and a little 11
12 less intellection, businesses actually *are* operated in roughly the way in which 12
13 Friedman mentions here? Although if they are, this may well be largely as a result 13
14 of firms (limited companies) having a *fiduciary duty* (to their share-holders) to do 14
15 so. A quintessentially *human* (social, legal) matter ...⁸ 15
16 My point here is a direct analogue of Winch’s important point using the 16
17 example of ‘liquidity preference’, in the most crucial section (3:6) of *ISS*. In fact, 17
18 it is almost as though Winch here were writing in response to Friedman, only 18
19 without mentioning his name: 19
20 20
21 [L]iquidity preference is a technical concept of economics: it is not generally 21
22 used by business men in the conduct of their affairs but by the economist who 22
23 wishes to explain the nature and consequences of certain kinds of business 23
24 behaviour. But it is logically tied to concepts which do enter into business 24
25 activity, for its use by the economist presupposes his understanding of what it is 25
26 to conduct a business, which in turn involves an understanding of such business 26
27 concepts as money, profit, cost, risk, etc. . It is only the relation between his 27
28 account and these concepts which makes it an account of economic activity as 28
29 opposed, say, to a piece of theology. (Winch, *ISS*: 89) 29
30 30
31 To return, thus armed, to the Friedman quote above: Aren’t Friedman’s 31
32 assumptions in this, genuinely social-human case, *unlike* in his earlier examples, 32
33 *not* entirely unrealistic? Aren’t there, just as Winch suggests, people in most 33
34 firms who actually do engage in activities that could very roughly be described as 34
35 seeking rationally to maximise expected returns, even trying to establish demand 35
36 functions,⁹ calculating marginal cost, *via* accounting procedures that have been 36
37 designed precisely to work out how much it will actually cost them to produce 37
38 38
39 39
40 40
41 _____ 41
42 8 See below, for more on this. 42
43 9 Perhaps via market research (which is itself surely more an art than a science, at 43
44 least insofar as it does not fall into the same kinds of mythic errors as we are endeavouring 44
to expose in Friedman).

1 some more of their product at the margin¹⁰ and so forth? And, insofar as these 1
 2 assumptions are, indeed, realistic, is that not in part a *product* of a certain kind of 2
 3 (capitalist) society, and of the workers' and managers' *decisions*, albeit very much 3
 4 under constraint (under constraint of needing to eat, under economic constraint, 4
 5 under legal constraint, sometimes under physical coercion from security guards 5
 6 or police or goons, and so on), to take up certain roles in that society? And indeed 6
 7 of many of these agents knowingly or unknowingly having learnt at school or 7
 8 university or filtered through into the business world some economics, including 8
 9 (more than likely) 'positive economics'? ¹¹ Strikingly, there just is *no* serious 9
 10 analogue to the latter kinds of effect in the domain of the natural sciences.¹² 10

11 We should note how Friedman himself, contrariwise, understands the 11
 12 analogy he hopes to have generated here: he believes himself to have shown that 12
 13 economics can be and is a positive science because it can treat human beings as if 13
 14 they engaged, to an utterly unrealistic degree, in a kind of *thinking*, but in a kind 14
 15 of thinking which, ironically, leads to *no thought*, but merely to obeying laws as 15
 16 if of nature, which leads to acting in an algorithmically determinable manner, and 16
 17 to algorithmically obeying 'the laws of economics'.¹³ Once again: he has given us 17

18
 19 _____ 18
 19 10 Crucially relevant again here is Winch's short discussion of 'liquidity preference', 19
 20 in Chapter 3 section 6 of ISS. And this in turn could be filled out by means of reference 20
 21 to ethnomethodological studies of business and accounting. Cf. also Flyvberg's succinct 21
 22 critique of economics as a would-be 'second-order social science', on p.44 of his (2001). 22

23 11 One could also appeal to broadly Hayekian considerations here, to make part 23
 24 of the same point: There is a sort of Spencerian learning 'mechanism' at work here: the 24
 25 market system as a whole is capable of making 'information-processing decisions' which 25
 26 are not necessarily based on any particular piece of information possessed by any particular 26
 27 agent. As my scare-quotes imply, however, there are dangers attendant on this way of 27
 28 presenting the point, dangers which are sadly beyond the scope of the present paper. See 28
 29 Section 2.5, below and McGilchrist (2009: 429), for more critical analysis of the concept 29
 30 of 'information'.

31 12 This critically important point is the main subject matter of Ian Hacking's works of 30
 31 the last 20 years or so. See for instance Hacking (1999); though compare also the important 31
 32 corrections to Hacking offered by Sharrock and Leudar (2003). The broadly 'Hackingian' 32
 33 point which I am making is that the way in which economics involves 'feedback loops' 33
 34 that include the *consciousness* of the economic *agents* has no direct analogue in natural 34
 35 science, including in (non-human) evolutionary biology. The extent to which people have 35
 36 in their actions understood as non-reflex actions an understanding-in-action of economics is 36
 37 explored, via the concept of (what is misleadingly/derogatorily-termed) 'ersatz' economics, 37
 38 in, for instance, Garrett Jr (1999). For a roughly Hackingian view specifically applied to 38
 39 economics, see also George Soros's work. 39

40 13 There is a behaviourism or functionalism thus lurking here – behind the veneer 40
 41 of the 'as if' of hyper-thinking that Friedman begins with – that would be worthy of much 41
 42 further investigation, and that again is representative of most Economics of modern times. 42
 43 It is unsurprising that positivism here tends to yield something like behaviourism: the latter 42
 44 is *par excellence* a (pseudo-)'science' of the human, reducing the qualitative complexity of 43
 44 humanity away to preferences which can be cashed out further as stimulus-response pairs. 44

1 no reason whatsoever to assume that there are any such. He has simply assumed 1
 2 that there are.¹⁴ So much is lost in the process: the account of behaviour in firms 2
 3 etc. that Friedman goes on to give just writes out so much from human and social 3
 4 being.¹⁵ 4

5 A good way to approach the above point is *via* the following remarks of 5
 6 Friedman's: 6

7 7
 8 Confidence in the maximisation of returns hypothesis is justified by evidence in 8
 9 part similar to that adduced on behalf of the billiard-player hypothesis – unless 9
 10 the behaviour of businessmen in some way or another approximated behaviour 10
 11 consistent with the maximisation of returns, it seems unlikely that they would 11
 12 remain in business for long. (Friedman, 1953: 22) 12

13 13
 14 This is indeed so, *if* such behaviour is really what is needed to stay *in business*, 14
 15 as opposed to in economists' *a priori* models of what 'business' is. Friedman's 15
 16 argument here is, we are now seeing, circular; or, alternatively put, he is simply 16
 17 begging the question he was supposed to be addressing. 17

18 Friedman has as yet, in other words, given us no evidence at all: he has simply 18
 19 reasserted his belief in the laws of economics as a useful mode of accounting for 19
 20 what goes on in 'the economic world'. We can *look and see* whether he is right 20
 21 or not. For example, I have heard some interesting and suggestive anecdota that 21
 22 some firms (e.g. in the brewery and pub industry) may well maximise size and 22
 23 turnover rather than profits. Of this possibility, which would have its own human 23
 24 determinants (e.g. desire for power among managers or bureaucrats), there is no 24
 25 glimpse, in Friedman. 25

26 But perhaps there is also *another* place to start in looking at what goes on 26
 27 in that world, in our world: namely, looking at what people actually understand 27
 28 themselves to be doing, and can *account* for. (When that gives out, *then* it may 28
 29 be worthwhile to engage in the kind of demystification exercises that the great 29
 30 economists such as Marx, Sraffa and Keynes accomplished.¹⁶) In other words, 30
 31 rather than assuming that we know what business is, and then theorising about it 31
 32 32

33 14 To see how economics reached this sorry state, this low point, the reader is advised 33
 34 to study Mirowski's work. The history defies brief summary. 34

35 15 Compare here Douglas Dowd's (2004: 84–6) powerful attack on the early Stiglitz's 35
 36 (and by extension, of course, on the whole of mainstream modern economics) rendition of 36
 37 consumers as rational and self-interested, and of firms as rational and profit-maximising, 37
 38 (and, most ludicrous of all, of markets as competitive with price-taking behaviour). 38

39 16 For my reading of Marx as a demystifying philosophical and political economist, 39
 40 through and through, see Read (2002b). See the essays in that edited collection by David 40
 41 Andrews and colleagues for a similarly Wittgensteinian reading of Sraffa. See also Coates 41
 42 (1996) for related discussion of Sraffa, Keynes and Wittgenstein. The most striking 42
 43 such instance of 'demystificatory' anti-delusional thinking in Keynes's (philosophical) 43
 44 economics is probably his famous and vital challenge to the temptation to think of the 44
 44 economy of a nation by analogy with the economy of a household. 44

1 using questionable assumptions, why not look and see what people who actually 1
 2 engage in business in practice *understand themselves* to be doing?¹⁷ Aren't they 2
 3 experts *in* their activity in a way that leaves are not (!), and that billiard players 3
 4 *qua* physical systems are not, while billiard players *qua* self-conscious players of 4
 5 games are? Then, building *via* the more or less *realistic* assumptions that *we* have 5
 6 thus been able to generate, we could come to understand *via* our understanding 6
 7 of these agents just what they are doing, and what the activity they are engaging 7
 8 in together, 'business', amounts to. We might (then) learn many things that 8
 9 conventional economics has shielded from sight. 9

10 Insofar as economic actors seem deluded about what they are doing, the task 10
 11 is one of de-seduction, of getting them to come to see themselves and their fellow 11
 12 buyers and sellers etc as *people* too. In other words, the task is inevitably to some 12
 13 degree political and ethical and involves persuasion. One way of putting what this 13
 14 task of demystification is would be to say: it is the task of getting capital-owners 14
 15 to be readier than they already are to ignore the social 'fact' that they are capital- 15
 16 owners, and to act in a way other than so as to maximise their accumulated profits. 16
 17 Historical materialism, in part through its scientism, but in part through a cold and 17
 18 calm realism, would certainly have it that this task of persuasion is going to be a 18
 19 fantastically difficult one. It may be as much a task of revolution. *But it is founded* 19
 20 *in the reality (occluded by Friedmanian neoclassical economics) that business* 20
 21 *is already at least sometimes like this.* Think of some 'ethical businesses' for 21
 22 instance; or think of Robert Owen.¹⁸ 22

23 _____ 23
 24 _____ 24

25 17 And one *might* be surprised then to find out, for example, the extent to which taking 25
 26 care of one's family or taking pleasure from building good relationships with customers 26
 27 or charity-work were important, even constitutive, elements of what business actually 27
 28 is. Perhaps what is taken to be 'business' often involves these things. Or perhaps it often 28
 29 involves the sheer coercion found in organised crime. Friedman's 'model' is not seriously 29
 30 open to either possibility. A fuller investigation here would of course be an 'empirical' and 30
 31 (preferably) ethnomethodological one, seeking to see how businesspeople understand what 31
 32 they are doing as is visible in their 'account-able' action, not just in their accounts of their 32
 33 actions. For some pointers in this direction, see Sharrock and Anderson (1989). 32

33 18 If the reader suspects that there is no plausible academic analysis that could 33
 34 underlie the bifurcation from neoclassicism implied in this parenthetical invitation and in 34
 35 the paragraph that follows, then I invite that reader to read Nelson (2006). Nelson examines 35
 36 in some detail the kind of possibility that I mean to be making space for in this Section: 36
 37 e.g. the possibility that even the fiduciary duty to maximise profits is a kind of empty 37
 38 place-holder: for a plausible case can be made for a wide variety of business-strategems to 38
 39 involve long-term profit-maximisation. Such strategems could include: building a strong 39
 40 reputation as ethical; and/or engaging in public charitable giving; and/or treating one's 40
 41 employees well; etc. (My point here echoes the argument I give in my forthcoming (2011b), 41
 42 in which I claim that there is no limit to the level of inequality which Rawlsians can seek 42
 43 to justify with reference to the economic well-being of the worst-off. Similarly here: 43
 44 Profit-maximisation does not guide the behaviour of firms except within the framework 43
 44 of making quintessentially human decisions about what stratagem, what path of profit- 44

1 One could easily go much further here. There is *much* in business that does 1
 2 not necessarily prioritise profit-maximisation: e.g. employee safety procedures, 2
 3 maintenance of employment, non-maximally-publicised charity support, supplier 3
 4 and customer loyalty, maximisation of *turnover*, power struggles between owners 4
 5 and managers, exercises of power by workers, etc. . To get a grip on most of this 5
 6 would require, for example, detailed studies of economic history and aggregated 6
 7 ethnographic studies of businesses at work (as practiced by ethnomethodologists 7
 8 etc fairly extensively, over the last generation.). In short: all this would suggest 8
 9 a way of turning traditional economics on its head. Rather than a fundamentally 9
 10 scientific exercise, constructed analogically on the model of the theoretical natural 10
 11 sciences,¹⁹ it would become first an exercise in studying quasi-anthropologically 11
 12 (humanistically, historically) the methods of the people in question,²⁰ and then (as 12
 13 in Marx, Sraffa or Keynes at their best) would involve a demystificatory exercise 13
 14 in questioning persistent social illusions and delusions, undertaken from a point of 14
 15 view;²¹ and then an activism, a (philosophically-influenced) ‘therapeutic’ praxis. 15

16 The problem I am raising with Friedman’s views seems to me particularly 16
 17 important for the following reason: according to Friedman, we have to predict 17
 18 the behaviour of economic agents whilst accepting as given the ‘game’ in which 18
 19 they are involved. But this game has, potentially, many pernicious features: it is 19
 20 for instance based on the possibility of making a profit out of bets on the future 20
 21 values of stock options (as happens with some financial derivatives), i.e. in a way 21
 22 that is independent of the material productivity of firms and the level of wealth 22
 23 of a community. This state of affairs should not be accepted merely as a given 23
 24 constellation of facts but should be criticised: for this reason it seems to me 24
 25 necessary to introduce an element of understanding in and of economics, as a pre- 25
 26 condition of critique, but *also* to make such critique an inevitable consequence of 26
 27 such understanding. The latter, Friedman fails to do *by definition*. For what I am 27
 28 saying now might be put as strongly as this: that a ‘positive’, purely explanatory 28
 29 29
 30 maximisation one is going to attempt to pursue, within an open-ended range of possibilities. 30
 31 Such human decision-making is glaringly absent from what Friedmanian dogma constricts 31
 32 one’s attention to.). 32

33 19 And note that it just doesn’t mean anything to seek for realistic assumptions *in the* 33
 34 *sense* in which we are seeking for them here, in *natural* science (See the Lecture Transcripts 34
 35 which open the present work, above; and see Lecture 4, on where Friedman’s monetarism 35
 36 starts to go wrong, in this connection.). We can get clearer on the reality of the social world 36
 37 by observing it as actual or possible actors in it, by asking people what they are doing, by 37
 38 seeing people’s actions as account-able, etc. . A botanist or biologist who spent their time 38
 39 literally asking leaves what they are doing would by contrast soon cease to be regarded as 39
 40 a natural scientist at all, and might indeed – and understandably – be a candidate rather for 40
 41 the lunatic asylum. 41

42 20 The methods of the ethnos; thus ‘*ethnomethodology*,’ the more or less 41
 42 Wittgensteinian, non-scientistic version of sociology founded by Harold Garfinkel. 42

43 21 I take the term ‘point of view’ from Gavin Kitching, and his impressive effort to 43
 44 overcome scientism and the fantasy of value-neutrality in Marxism. 44

1 economics is either a kind of absurdity, or a kind of abomination (or both). In other 1
 2 words, the understanding of the practices in which we are involved is necessary 2
 3 to their critique, which may be urgent and essential: but Friedman's framework is 3
 4 *inherently* indifferent to the possibility of such critique.²² 4

5 To sum up this critical dissection of Friedman's worryingly influential text: It is 5
 6 striking that Friedman's would-be birthing of a science proceeds in a superlatively 6
 7 pseudo-scientific and rhetorically-loaded fashion. Friedman smuggles human 7
 8 being into his founding exemplars for economics as a 'positive science', and hopes 8
 9 we will forget that he has done so. He wants people to be both humans and not 9
 10 humans at the same time: he *hovers*²³ unstably between *eliminating* humanity 10
 11 altogether from the 'objects' of his economics and *relying* on such humanity.²⁴ 11
 12 This is quintessentially the kind of fatal failing that a Wittgensteinian sensibility 12
 13 unconceals. (It is a telling sign of a dire need for 'therapy', for intellectual 13
 14 liberation.) 14

15 Crucially, his (Friedman's) 'as-ifs' skate over the way in which these 'as- 15
 16 ifs' are thankfully (sometimes/often, at least) entirely eliminable in actual social 16
 17 studies: we can come to *understand* why people do things principally because 17
 18 18

19 22 Thanks to Davide Rizza for thoughts that have greatly influenced me on this 19
 20 point. It might be claimed that this line of thinking may not undermine positive economics 20
 21 but only clarifies its scope: positive economics may still be the study of a distinctive 21
 22 (widespread) type of economy, even though the decision to 'plan' in a certain way and 22
 23 accept the crystallisation of a type of market is something that should be subjected to further 23
 24 reflection and critique. But these points fundamentally undermine Friedman's ambition just 24
 25 the same: they mean that positive economics as an alleged value-free science of universal 25
 26 relevance is dead and buried. Winch's approach seems to me helpful given that it can point 26
 27 in this direction: see for instance the discussion of liquidity preference etc., above. In more 27
 28 general terms, as established early in 2.1 above: Winch makes clear the inevitable inter- 28
 29 involvement of 'social and economic science' with philosophy, and philosophy inevitably 29
 30 brings with it the potential of criticism/critique. 30

31 23 Hereabouts, Friedman is fatally vulnerable to Wittgensteinian challenge. Some of 30
 31 economics is just 'applied maths'; no problem there, no worries from me about that activity. 31
 32 But when one actually *applies* the theory to the real world, then one has to eliminate one's 32
 33 desire to hover, to fail to choose what to mean by one's words. 33

34 Insofar as economics then offers us anything determinate (non-hovering, non- 34
 35 flickering), one can usefully see economics as offering us, in Wittgenstein's terms, 35
 36 *objects of comparison*. We can learn about the world and about ourselves by comparing 36
 37 and contrasting notions such as the utility-maximising individual or the 'game' (as in 37
 38 game theory) with our existing concepts, and (in a way) with reality. But such 'objects of 38
 39 comparison' leave *you* to do the thinking, and to do the work. The work of seeing by means 39
 40 of them, and of reflecting on the value or otherwise of what one has thus seen. The illusion 40
 41 fostered by Friedman is that the theory can do the work *for* one. 41

42 24 I alluded earlier to the probable vacuity or nonsensicality of Friedman's famous 41
 42 'leaves' example even on its own terms; now we see that Friedman's 'as if's' transposed to 42
 43 the human/social science contexts where he wants to put them to work certainly make less 43
 44 sense still ... These 'as if's' cannot be stably cashed out (to coin a phrase). 44

1 we (can) inhabit, vicariously or sometimes literally, their place in the social 1
 2 situation in question. Realistic assumptions, *even if* as inessential to the natural 2
 3 sciences as Friedman suggests, *are available* and invaluable in the social studies: 3
 4 it is an intellectual error of vast proportion to eschew them; it is a turning of *the* 4
 5 *world* on its head. For realistic assumptions are in fact *essential* in ‘the human 5
 6 sciences’ in a way that they are not, in the natural sciences: where, as we saw in 6
 7 Part 1 of this book, one has to be ready sometimes to countenance the most madly 7
 8 ‘unrealistic’ of assumptions, at moments of crisis. Think of the near-craziness, 8
 9 on first-inspection, of Relativity, or of the quantum. Assumptions in science, we 9
 10 might say, are realistic *relative to a paradigm*. That is: they must eventually come 10
 11 to *seem* realistic, though such seeming is paradigm-relative, ‘world’-relative. (Of 11
 12 this, there is no hint in Friedman). 12

13 Friedman’s suggestion that there is no reason to even try to adopt realistic 13
 14 assumptions in the social studies amounts to a refusal to acknowledge that society 14
 15 is made up of aware and (sometimes unpredictably) responsive human beings, 15
 16 human beings with more or less intimate and indeed ‘internal’ relations with each 16
 17 other. And a refusal to acknowledge the difference that makes. These human 17
 18 beings are not mere atoms or leaves: they are in an important sense *part* of one 18
 19 another. This has ethical *and* methodological/predictive consequences. This (return 19
 20 to) common-sense which social and economic theory obscures is a fundamental 20
 21 insight of Winch’s. The endless ‘paradigm’ of everyday life, the way that social 21
 22 reality is *fundamentally* natural to us, is the alpha and the omega for social study. 22

23 Thus, what Friedman’s suggestion amounts to *begs the question* against the 23
 24 ‘therapeutic’ philosophical claim that I have by contrast suggested: namely, that 24
 25 there is a kind of difference in kind between the subject-matter of the human/ 25
 26 social ‘sciences’ and the natural sciences. In the end (and, in fact, throughout) 26
 27 Friedman has simply *assumed* that economics is a science, in the same way that 27
 28 physics or biology are. He has not provided the slightest *reason* to believe that this 28
 29 is the best way to look at economics.²⁵ This positivist stance simply leaves out so 29
 30 much; and, further, tends to militate implicitly/illicitly in favour of the right-wing 30
 31 31

32 25 It will be objected that the reason Friedman has given us is his claim that 32
 33 economic theories should be judged on the basis of their ability to make predictions. (See 33
 34 the transcript of Lecture 4 at the opening of this book) and Read (2010b)). Friedmanian 34
 35 monetarism proved lousy in this regard, for reasons *internally related* to Friedman’s 35
 36 *scientism*. Monetarism was blind to the way in which human beings as reflexive creatures 36
 37 who understand when they are being constrained and react against it are constitutively 37
 38 ill-suited to being scientifically understood and predicted. Monetarism *could not remain* 38
 39 a ‘scientific’ positive economics and still anticipate the extent to which economic actors 39
 40 would deliberately resist and *use* monetarist policy for their own economic ends. 40

41 It is worth adding that my discussion above, e.g. of Friedman’s example of the leaves 41
 42 on the tree, already undermines the apparently reasonable pragmatism or instrumentalism 42
 43 involved in Friedman’s position. It is not only the case that Friedman’s theories yield lousy 43
 44 predictions, for reasons indissoluble from his scientism; it is the case also that there is either 43
 44 vacuity or absurdity in the very idea of judging science only on the basis of its successful 44

1 political philosophy that Friedman espouses, according to which the maximisation 1
2 of wealth by individuals is rational, natural and unobjectionable. 2

3 The very purveying of this picture of humans as *Homo Economicae*²⁶ can tend 3
4 to mold societies in such a way that the picture will come to appear more and more 4
5 accurate, and the positive economics which elaborates it more and more well- 5
6 founded.²⁷ The final irony of considering the complete travesty that is Friedman's 6
7 'scientific' founding of economics is that there is no way internal to Friedman's 7
8 implicit philosophy of 'social science' by which to understand this effect. This 8
9 effect is probably the most important effect of all of Friedman's essay. But the 9
10 'feedback loop' in operation here is one that a Friedmanian approach renders 10
11 invisible. Thus *Friedmanianism blinds one to the very effect of Friedmanianism.* 11

12 Friedman's essay over time tended to make society look (and be) more like 12
13 what his essay 'described' than it had done previously – but the very nature of 13
14 this effect is one which is incomprehensible, on Friedman's *own* terms. Thus 14
15 the influence of Friedman's essay made it look superficially as though what he 15
16 was saying in the essay was correct – but the way that that influence came about 16
17 provides in fact a final refutation of the vision of economy and society and of 17
18 'social/economic science' promulgated by him, and questioned throughout this 18
19 book of mine. (Friedmanian thinking produces the very disease of which it takes 19
20 itself to be the diagnosis ...) 20

21 To overcome such scientism as is found in Friedman's essay requires, as 21
22 Wittgenstein urged, an effort of *will*, a change of *attitude*. That is ultimately what 22
23 I aim to be fostering in the present work (and that I explore the nature of in more 23
24 detail, in the latter portions of 2.5, below). 24

25 I invite the reader in this context to reflect upon the extent to which economics, 25
26 insofar as it remains more or less Friedmanian, could possibly genuinely attain to 26
27 scientific status. I suggest that that extent has been much exaggerated. Meanwhile, 27
28 Friedman's influence on the real world (*via* his methodology) is then inevitably 28
29 a baleful one. Let us close by giving one powerful contemporary for-instance: 29
30 the (broadly-Friedmanian) 'naturalisation' of selfishness and maximisational 30
31 31

32 predictions. A science without reasonable assumptions does not make specifiable testable 32
33 predictions *at all*, except by begging the question. 33

34 26 This picture is at the heart of the troubling 'social theory' that economics tends 34
35 to embody, project, or argue for. But from my – Wittgensteinian and Winchian – point of 35
36 view, the very *wish* for a social theory – a *theory to explain* (the nature of) society – is 36
37 confused. Economics as social theory is *not* science, but rather is philosophy – but, mostly, 37
38 the wrong kind of philosophy. Philosophy as metaphysics of what needs none, as opposed 38
39 to philosophy as liberating us to return to what we always already understand, especially 39
40 after the intervention where needed of therapeutic philosophical undelusion: ourselves, as 40
41 social and linguistic actors who *make* history, who *do* society. 41

42 27 It is worth comparing here the intriguing point that students of economics tend 41
42 to behave more selfishly during game theorists' 'economic experiments' than do other 42
43 undergraduate students ... It is also worth comparing here Friedman's subsequent work, 43
44 such as of course his deeply dubious and often morally repugnant *Capitalism and Freedom.* 44

1 behaviour is a root of the financial/economic crisis that we are currently 1
 2 experiencing. His methodology of positive economics encourages one to prescind 2
 3 from making realistic assumptions about how human beings behave: it makes it 3
 4 harder to engage in and take 100% seriously the kind of realism present in the 4
 5 thought of Hyman Minsky, for example, and his warnings about bubbles and about 5
 6 the multiplication of risk. 6

7 In getting one to think of fundamental economic concepts such as money as 7
 8 if they were concepts of natural science, Friedman helps one to lose sight of their 8
 9 fundamental *difference* from such concepts. As I remarked in the ‘InterSection’, 9
 10 above, money is as money does: regarding it as a kind of stuff leads one into 10
 11 absurd fantasies of ‘monetarism’.²⁸ Moreover, imagining that one can securitise 11
 12 any ‘thing’ and every ‘thing’, and that uncertainty can be calculated into risk that 12
 13 can be calculated into money which can be relied upon, is a natural thing to do if 13
 14 one is working with the metaphor that money is a kind of stuff, that economics 14
 15 is a kind of physics, and that human beings and their accountable, reflexive etc. 15
 16 capacities are inessential to economics. 16

17 These are Friedmanian assumptions/metaphors. They bear some responsibility 17
 18 for the economic and financial disaster that we are living through. Some good 18
 19 policy-advice for a more genuinely *secure* economic future would in my view 19
 20 therefore be: Teach trainee-economists what is wrong with Friedman on 20
 21 economic methodology, and give critical philosophers of economics (including 21
 22 Wittgensteinian/Winchian voices) some counter-balancing power to the 22
 23 positivists, who have the events of 2007 to the present day as a dreadful legacy of 23
 24 their philosophy. 24

25 Friedman’s followers should admit that Friedman’s methodology for 25
 26 economics, in its lack of self-reflexivity, and in its getting systemically in the way 26
 27 of thinking the real human nature of money, uncertainty and bubbles, is one of the 27
 28 foundational reasons that we have been threatened with such a Depression as now 28
 29 may well be looming over the world. That is the ‘cash-value’ of the methodological 29
 30 matter that has been under discussion in the present Section. 30

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44 28 On this, see again Read (2009b). 44

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2.5 'Dissolving' the Hard Problem of Consciousness Back into Ordinary Life

'A man's thinking goes on within his consciousness in a seclusion in comparison with which any physical seclusion is an exhibition to public view.' // If there were people who always read the silent internal discourse of others – say by observing the larynx – would they too be inclined to use the picture of complete seclusion?

Ludwig Wittgenstein, *PI* Part II, section xi.

I have sought in this book to suggest reasons to hesitate before thinking of 'social' or 'human' or 'economic' etc. 'sciences' as actually kinds of ... science, and as actually having enough genuinely in common with our paradigm(s) of science to be unmisleadingly assimilated to it/them. Have I in the course of so doing depended on some dubious quasi-Cartesian assumption about mind, and especially the 'hardcore' of mind, consciousness, being a different kind of *stuff* from the stuff that real science investigates?

I very much hope not. This, the final Section of Part 2, aims to take up a satisfactory Wittgensteinian 'stance' on (or 'style' of engagement with) that most recalcitrant of 'phenomena', consciousness. That stance/style will not instantiate a solution, no matter of what kind to 'the problem of consciousness'. It will rather seek to dissolve the problem: but *not* through (what would conventionally be likely to be called) an argument, but (rather) through indicating some actual practices that one can engage in (and does engage in). In the course of so doing, further light will be cast upon the way in which 'the human sciences' are different from the natural sciences, *without* having to rely on any quasi-Cartesian move; *quite to the contrary*, in fact, as we shall see.

I suggest here reasons to believe that consciousness as a thing or object is not the right place to look, for what makes the difference between 'human sciences' and natural sciences that has occupied me increasingly as this book has proceeded. Thinking that it is *tacitly preserves a Cartesian framing of the issue*, and fails to achieve freedom with regard to the metaphors that we instinctively grasp for when trying to think the human, the mind, the 'subject', and so on. That is the importance of this section for the present work: that it resists a perhaps-natural – but in-fact-dangerous – assumption about where to locate the distinctiveness of (investigations of) the human.

Rather, as the ethnomethodologists insist, what are central are accountability, reflexivity, and (the understanding of) *action*, (of) conduct. The 'behavioural and

1 cognitive sciences' are crucially modes of understanding activity, conduct. And it is, 1
2 it 'goes without saying', understanders who are being understood.¹ 2

3 I argue that the interminable analyses that are made of 'the problem of 3
4 consciousness' can perhaps be terminated – though only if we are willing to 4
5 understand (and thus facilitate our being able to overcome) the misleading (or 5
6 even vacuous) metaphors upon which the problem is largely based. Let me explain 6
7 why I think this, and why exactly I think that all 'human scientists', and certainly 7
8 not only philosophers, should care. 8

9 9
10 10

11 **What is 'the Hard Problem' of Consciousness?** 11

12 12

13 The 'hard' problem of consciousness is (allegedly) a 'sub-problem' of the 13
14 broader mind-body problem. It is the alleged kernel of that problem. The 'hard' 14
15 problem, as Chalmers has called it, is that of alleged 'qualia' the 'qualities of 15
16 felt or sensed experience.'² It is the problem of why, besides 'intentional states' 16
17 (e.g. understanding something about something in the world) and 'informational 17
18 processes' (e.g. the sub-personal processes which allegedly constitute perception 18
19 etc.), there should be actual conscious events and feelings. No; not so much *why* 19
20 there should be these things, but *how there can be* these things – what it can be 20
21 for there to be such things, and, crucially, how, if at all, their interconnection with 21
22 'the physical' can be understood. Someone like Colin McGinn seeks to shock by 22
23 saying: It can't be understood at all (by us). This novel position in the debate is 23
24 called 'transcendental naturalism'. But nevertheless McGinn et al keep the mind- 24
25 body problem alive – it is almost as though they want to guarantee that it will never 25
26 die – by putting it tantalisingly out of reach of our epistemic/cognitive powers. As 26
27 Wittgenstein once remarked, people like to state what the limits of thought and 27

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31 1 In a 'social science' (or 'social theory' or 'human science' etc.) that does seek to 31
32 understand human action; but not all so-called social science does aim to do that. So what 32
33 about, e.g., analyses that look at striking juxtapositions of such things as income inequality 33
34 and inequalities of health and illness, etc.? These 'findings' are not directly about action; 34
35 indeed the point of them is that what they (seem to) show is that there are effects of socially- 35
36 distributed phenomena that happen fairly independently of the particular meaningful things 36
37 that people do in their everyday lives, and largely outside of their awareness. With regard to 37
38 these alleged findings consciousness is not particularly relevant, one way or the other, i.e. 38
39 is largely not under dispute. This then is an important 'exception' to the general hostility 39
40 I have exhibited in this book to social and human 'science': that certain kinds of 'policy 40
41 studies' and the like are harmless (and indeed very useful) and do not fall within the ambit 41
42 of the critique I offer herein. I have taken this for granted in the present work, having 42
43 explicitly discussed it and argued for it elsewhere, e.g. in Hutchinson, Read and Sharrock 42
43 (2008: 37, n.16). 43

44 2 For scholarly chapter and verse, see Owen Flanagan's (1992) impressive work. 44

1 knowledge are – because in so doing, they are thereby somehow seeming to start 1
2 to see beyond them.³ 2

3 It has been fairly *convincingly* argued by those dissatisfied with the classical 3
4 cognitive-science paradigm that there is a very impoverished conception of the 4
5 physical, and in particular of the human body (when viewed as broadly mechanical), 5
6 at play here; that is, in the likes of Chalmers, but also in the behaviourists and 6
7 the eliminativists, and perhaps in McGinn too; indeed, in virtually the entire 7
8 Modern tradition of thought about mind and body. Merleau-Ponty has probably 8
9 shown this better than anyone else.⁴ It has also been repeatedly (and in my view 9
10 efficaciously) argued that there is something badly awry with the conception of 10
11 'mind' and 'body' as (conceptually) separable in the first place: this has been 11
12 argued, for example, by Wittgenstein.⁵ Furthermore, what Hegel, Pragmatism, 12
13 Merleau-Ponty, Wittgensteinians and Philosophical Feminism have contributed to 13
14 – and what the Ethnomethodological sociologists have developed in the greatest 14
15 detail – is the understanding of the *social* aspects of mind/body; but it would take 15
16 us too far afield to go into that question here.⁶ One's view on the mind-body 16
17 problem is surely deserving of real consideration only if it does not depend upon 17
18 wrong-headed conceptions of 'mind' and 'body'. Add to this, that arguably it is 18
19 only if one thoroughly re-thinks the philosophical tradition concerning mind and 19
20 body that one will be able to escape from the 'dialectic' between – on the one 20
21 hand – dualistic Cartesianism, and – on the other – its reactive 'opponents' (e.g. 21

22
23
24

25 3 See Wittgenstein (1998: 15). Thus my thought, that 'transcendental naturalism' is 25
26 neither a solution to the problem of a consciousness, nor a way of getting rid of the problem 26
27 – rather, it guarantees in a particularly powerful manner *the keeping alive indefinitely of* 27
28 *the problem*. It offers the extraordinary psychological satisfaction of *both* a humble (yet 28
29 privileged) 'scientific' statement of limits to the understanding, *and* the knowingness of 29
30 being part of a privileged elite that, in stating those limits, can see beyond them. It fails 30
31 to understand what Wittgenstein made clear in the Preface to the *Tractatus* that 'The limit 31
32 can...only be drawn in language and what lies on the other side of the limit will be simply 32
33 nonsense.' 33

34 4 For useful discussion of Merleau-Ponty's approach, see for instance Soori and Gill 34
35 (1989). 35

36 5 And it is worth noting that the mistake I am alleging in the bulk of the philosophical 36
37 tradition, apart from these alternative and non-canonical thinkers, is not ubiquitous among 37
38 reflective *scientists*. See for instance some of the writings of renowned gerontologist and 38
39 neuroscientist Raymond Tallis; for example, 'A Critical Dictionary of Neuro-Mythology' 39
40 and 'The Poverty of NeuroPhilosophy' in Tallis (1999). Somewhat troublingly, Tallis seems 40
41 not really to want to dissolve the mind-body problem at all (see e.g. pp.73, 89, 101, 123), 41
42 and thus leaves the quasi-Dualistic impression that consciousness is a 'thing'. However, 42
43 he is right, I think, in his deep suspicions of the claim that blurring the boundary between 43
44 human and machine is any way forward in our understanding of the mind. 44

45 6 See Williams (1999); Button *et al* (1995); Watson's (1998), especially pp. 202–223; 45
46 much of Anne J. Jacobson's work, and Glendinning (1998). 46

1 neo-behaviourists and eliminativists, who have not escaped from *the space defined* 1
 2 *by Cartesianism*). 2

3 I wish to develop a kind of synthesis of these related thoughts, of the genuinely 3
 4 and therapeutically anti-Cartesian arguments of Wittgenstein and co. For I think 4
 5 that the appeal of the mind-body problem as an interminable enigma will not 5
 6 be depleted unless and until one has looked carefully into the way in which the 6
 7 conception of mind and body as fully conceptually separable is first arrived at, and 7
 8 then noticed the peculiar and impoverished conceptions of *both* mind ⁷ and body – 8
 9 of *people* – which tend to structure the separation, and thus the debate. 9

10 Specifically, in the contemporary context in which I have initially framed my 10
 11 own discussion, in the context of philosophers like McGinn, Searle, Chalmers 11
 12 and the Churchlands, I think it is very useful to take a close look (‘for example’) 12
 13 at the way in which the computer ‘model’ of the mind has held virtually *all* of us 13
 14 captive, has metaphorically structured (deformed) the discussion such that it is 14
 15 almost impossible to get a clear view of the very peculiar nature of the question 15
 16 that is being asked, when ‘the hard problem’ of consciousness is raised.⁸ But a 16
 17 clear view is what I am after: I think that, if and when one attains such a view, *the* 17
 18 *mind-body problem as a felt problem really can evaporate completely away*. 18

19 Without *depending* in my argument overly upon you already trusting in 19
 20 Wittgenstein and the other critics of the Cartesian tradition, I shall endeavour to 20
 21 persuade you, the reader, of this. (In doing so, I follow (I hope) in the footsteps of 21
 22 Lakoff and Johnson (1999), in their questioning of the computational metaphors 22
 23 of mind.) 23

24 24
 25 25

26 **‘Information’** 26
 27 27

28 What do I have in mind? What I have in mind can be conveniently focused around 28
 29 the concept of *information*. This concept is absolutely crucial for ‘Cognitive 29
 30 Science’, in part because it funds the computer ‘models’ of mind which in one 30
 31 way or another is shared by philosophers of mind as otherwise diverse as Fodor 31
 32 and the Churchlands.⁹ 32

33 33

34 ⁷ To indicate a little more of what I mean here: Heidegger and Foucault are two of 34
 35 the philosophers who can help one to escape from a *thing-like* conception of mind, as of 35
 36 course can ‘Wittgensteinians’ such as Kenny and Ryle. For amplification of this thought, 36
 37 and of how it is crucial for sociology, see Coulter (1979), especially pp.1, 34 and Chapter 2. 37

38 ⁸ In other words: The kind of solution that various philosophers impressed with 38
 39 or implicitly depending on or even deliberately working in explicit opposition to the 39
 40 computer metaphor for mind have in mind to the mind-body problem *already depends* 40
 41 upon non-compulsory presumptions about a separation between mind and mere body, 41
 42 and a concomitant impoverishment of the understanding of the human person. Those 42
 43 presumptions are *structured into* the metaphor. 42

44 ⁹ For a background critique of these problematic models, see not only Lakoff 43
 44 and Johnson’s (1999) excoriating critique of computationalism and other ‘1st generation 44

1 Now, the concept of 'information' is a contested one within contemporary 1
 2 philosophy of mind and cognitive science. There are debates, for example, 2
 3 between those who are suspicious about the general usefulness of the notion of 3
 4 'information' (but keen to treat the mind as entirely computational in nature), and 4
 5 those who think that plants, non-human animals and human alike are all above all 5
 6 receivers of and actors upon information. But such debates are very much debates 6
 7 *within* the traditional 'Cognitive-Science paradigm' in philosophy of mind – a 7
 8 paradigm about which I am meaning to raise deep doubts. 8

9 Sometimes, more fundamental questions are raised about the use of the term 9
 10 'information' to refer to sub-personal processes. I think that these latter questions 10
 11 *are* very pertinent, and that there is an almost inexorable risk in extending the use 11
 12 of concepts such as 'information' beyond their original domain of application. 12
 13 The use of the concept has been extended – 'bloated', we might polemically say 13
 14 – when it is applied as Dretske *et al* apply it. They therefore owe us an account 14
 15 of why it is wise to continue using the same term – 'information' – at all, if what 15
 16 they are talking about is so loosely connected with what the word normally, 16
 17 unmisleadingly, means.¹⁰ 17

18 The original context of the concept is in situations such as the following: 18
 19 One is at a railway station, and asks a stranger such as the station manager, 'I 19
 20 need the following information, please: Could you tell me where I can find a 20
 21 decent hotel?' Or: one is impressed by the knowledge of a fellow theatre-goer, 21
 22 and remarks to a friend, 'That woman is a mine of information.' Or: one defends 22
 23 one's controversial choice of reading matter on aesthetic grounds by emailing 23
 24 one's friend to say, 'I don't read her books merely to acquire *information!*' Of 24
 25 course, we can also acquire information (and indeed knowledge) from sources 25
 26 other than our fellow human beings. Examination of fossil remains yields 26
 27 information concerning the nature of life on Earth hundreds of millions of years 27
 28 before there were any human beings.¹¹ 28

29 _____ 29
 30 Cognitive Science' but also McGilchrist's (2009), especially the third chapter. Genuinely 30
 31 post '1st generation' Cog Sci, and Neuro-Science, are not within my target-range for 31
 32 criticism. 32

33 10 It might be objected (thanks to Davide Rizza, for this thought) that writers who 33
 34 talk about 'information', in Cognitive Science, etc. are not using the everyday notion: 34
 35 rather, they are 'referring' for instance to Shannon's information theory, which has 35
 36 originally been developed for different purposes (e.g. the transmission of electrical signals). 36
 37 But this objection doesn't take into account the wideness of my point hereabouts: Even 37
 38 to talk about electrical *signals* is to place oneself in a relation to our ordinary concepts of 38
 39 communication, information, etc. . Shannon's and cognate theories are called theories of 39
 40 '*information*' *because* of this relation. Moreover, the problem of transferring, even purely 40
 41 analogically, that notion of information to the brain or something more elusive still stands, 41
 42 regardless of this point. 42

43 11 It is striking that these usages of the term 'information' that I am drawn to imagine 43
 44 all concern, unsurprisingly, requests for/statements about matters of fact, simple fillings- 44
 45 in of specific small gaps in people's knowledge. In McGilchristian terms: 'information' 44

1 But even in this last case, ‘information’ remains, paradigmatically, a concept 1
 2 which clearly operates on a personal and inter-personal level, not on a sub-personal 2
 3 level. In other words, ‘information’ is paradigmatically a concept of something 3
 4 which *human beings* have at their fingertips, and there is a family of uses of the 4
 5 term which we *do* clearly understand. It may be ‘messy’ from some arbitrary and 5
 6 (purportedly) ‘scientific’ point of view, but such alleged ‘messiness’ or ‘vagueness’ 6
 7 is not normally any constraint whatsoever upon comprehensibility or utility. The 7
 8 utility of such uses of the term ‘information’ and cognate concepts is located at 8
 9 many and various points in the stream of daily life.¹² 9

10 The ‘messiness’ of such uses is only an *issue* for philosophers/theorists who 10
 11 are working from inside the ‘analytic’ attitude, rather than having any kind of 11
 12 ‘practical’ attitude toward their subject-matter. Careful attention to the actual use 12
 13 of terms such as ‘information’ (and indeed ‘messy’),¹³ to their actual contexts 13
 14 of significant use, can enable one to see ordinary uses of the term as rich and 14
 15 sophisticated, rather than as flawed or merely *sub-scientific*. 15

16 This point feeds in, once again, to the founding impulse of Peter Winch’s 16
 17 Wittgensteinian philosophy of social science, equally applicable to most ‘Social 17
 18 Theory’ today, namely that ‘scientific’ versions of human practices tend to provide 18
 19 impoverished or dangerously ironising accounts of ordinary actors’ linguistic and 19

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23 is quintessentially a left-brain concept, a province of the left hemisphere. This should 23
 24 already give us a big clue as to why any ‘information’-based approach to the mind and 24
 25 to consciousness is bound to prove inadequate: because it will miss out what are actually 25
 26 the most crucial aspects of the human brain, the parts least amenable to ‘modelling’ via 26
 27 computers etc.: the wholistic, and metaphorical, and novelty-spotting and –creating, and 27
 28 anomaly-spotting (and open to life rather than just to machines and bodies) ways of the 28
 29 right brain. The urge to acquire information is a urge to make the new old, an urge born 29
 30 out of knowingness, not a genuine desire for newness that is willing to tolerate an inability 30
 31 to categorise or to pin down (which would be the right brain’s way: McGilchrist (2009: 31
 32 164)). ‘Informationalism’ presupposes the possibility of ramming everything into existing 32
 33 categories, and has no space for (Kuhnian) revolution. 33

34 12 This turn of phrase is intended to allude both to Cora Diamond’s (1989) magnificent 34
 35 discussion of the actual location of concepts (e.g. ‘rule’) which even ‘Wittgensteinian’ 34
 36 philosophers can be guilty of misusing, and to the kind of approach to the actual use of terms 35
 37 often found in Conversation Analysis and Ethnomethodology. It is worth noting, to forestall 36
 38 some possible understandings of my points about ‘technical’ concepts such as ‘Information’ 37
 39 in mind-body debates, that ‘Wittgensteinians’ such as Diamond, Cavell, Conant, Kuhn, 38
 40 Garfinkel and Lynch are clear in their work that for most purposes scientific and technical 39
 41 language as actually used should be considered *to be perfectly everyday*. The point is that 40
 42 sometimes terms ‘go on holiday’: When, that is, they are ‘employed’ metaphysically, as I 41
 43 am alleging they often are in philosophy/‘cognitive science’. 41

42 13 See *PI*, 65–80, for an extraordinarily penetrating dissection of our prejudices 42
 43 surrounding concepts such as ‘vague’ and ‘messy’. And see *PI* section 356 for discussion of 43
 44 the actual use of the term ‘information’. 44

1 non-linguistic actions, unless they remain tethered at all key points to those actors' 1
 2 own accounts and concepts.¹⁴ 2

3 Under pressure from the scientific impulse, however, and from what John 3
 4 McDowell has sometimes called 'the drive toward objectivity' in Modern thought,¹⁵ 4
 5 it may appear as though this concept of 'information' were hopelessly wishy- 5
 6 washy, and that some 'hard' and pure and clear replacement for it were required. 6
 7 The term gets used in extended ways, in particular scientific or philosophical 7
 8 theoretical discourses, and these uses are 'not vague'; they are clearly laid out 8
 9 and demarcated. The theorists *define* their terms. So, for instance, there is then 9
 10 talk of animals or even plants receiving information from their environment, or 10
 11 of computers processing information. And such talk can seem clearer, easier to 11
 12 put in a box, than the very uses of the term 'information' from which that talk 12
 13 metaphorically derives. 13

14 It then starts to appear as though we understand what information is *better* in the 14
 15 new extended use than in the original context. We understand clearly, so it then can 15
 16 seem, what we mean when we talk of 'information' in the context of 'information- 16
 17 processors', and we can seemingly employ the new, putatively 'clearer' use of 17
 18 the term to retroactively reflect upon how humans work. Specifically, we perhaps 18
 19 feel that we can start to figure out how 'the mind' works, and how mind can be 19
 20 embodied, as 'software', for example. Is this *really* how to make progress on the 20
 21 topic of the mind-body relation? 21

22 22

23 23

24 **Strictly Philosophical Approaches that Guarantee Failure to Connect Mind** 24 25 **and Body** 25

26 26

27 The as-yet-insoluble mind-body problem has seemingly been narrowed with the 27
 28 passage of time, with the development and intensification of the debate in recent 28
 29 and contemporary philosophy of mind etc.; but with each narrowing, a solution of 29
 30 the real hardcore, the 'hard' problem, seems to get further and further away. This 30
 31 again seems to me to explain the attractiveness, the *attraction* of, for example, 31
 32 McGinn's take on the problem; he, unlike nearly all predecessors, at least have 32
 33 something to say – albeit something I think is very confused – about the deep 33
 34 elusiveness of a solution.¹⁶ What I am suggesting is that the elusiveness of a 34

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37 14 See especially the 2nd edition Preface of *ISS*, and Winch's (1964: 83–90) 37
 38 'defence' of the Azande against Evans-Pritchard's claim that they are clearly committed to 38
 39 contradictory beliefs. 39

40 15 An obsessive drive which, incidentally, McDowell thinks afflicts many 'anti- 40
 41 realists' (e.g. Rorty, and sociological relativists) just as much as it affects many 'hard-nosed' 41
 42 'realists'. See McDowell (1989). 42

43 16 A useful way of seeing the terrain hereabouts may therefore be this: Mainstream 43
 44 approaches to the mind-body problem are almost invariably scientific, assuming that 44
 45 the answer to the problem will one day be positively storable as some (e.g.) physical 45

1 solution which will really satisfy us, which will let us end our philosophising, is 1
 2 in fact *a structural feature of the way the problem has been approached*.¹⁷ There 2
 3 is in common between virtually every single one of the protagonists to the debate 3
 4 the assumption, covert and/or overt, that the way to make progress in and with 4
 5 the problem of consciousness is to hive off from the problem more and more 5
 6 things which purportedly ‘we can now explain’, *via* neuro-science, or cognitive 6
 7 psychology, or A.I., or composites of these, or social scientific spin-offs from 7
 8 them (most obviously, some sociobiology/‘evolutionary psychology’). More and 8
 9 more bits of the problem get (supposedly) rendered answerable, as we ‘make 9
 10 _____ 10

11 or biological proposition, which philosophers are at this point only able to sketch (and 11
 12 thus we get cognitivist sketches, materialist sketches, behaviourist sketches, etc.). (My 12
 13 formulation here is strongly influenced by the work of James Conant). Against such quasi- 13
 14 positivistic optimism, minority voices (e.g. some religious thinkers) sometimes counsel an 14
 15 ‘ineffabilism’, to the effect that we should not expect ever to be able to state the answer 15
 16 to the problem, and that the human mind/soul will always retain an element of mystery. 16
 17 The McGinn and co. view is a novel attempt at virtually-explicit synthesis of these two 17
 18 apparently-conflicting positions: McGinn says that the ‘scientific’ view is wrong only in 18
 19 thinking that *we humans* will be able to succeed in stating the answer to the problem! Thus 19
 20 McGinn wraps in secular ‘scientific naturalist’ robes the transcendentalism and ineffabilistic 20
 21 ‘mysterianism’ of those who have traditionally denied that we will succeed in solving the 21
 22 mind-body problem. If McGinn were living in a different age, he would cut to the chase 22
 23 and simply say quite seriously: ‘*God* knows the answer to the mind-body problem, but *we* 23
 24 never shall.’ (We can see how close he is – except for some perhaps-superficial features of 24
 25 his ‘clothing’ – to Descartes’s late Medieval/early Modern worldview, when we see how 24
 26 close he is to saying, ‘We have a Clear Idea of *Mind*, and we (scientists and philosophers) 25
 26 perhaps have a Clear Idea of *Body*, but no Clear Idea whatsoever is available (to humans) of 26
 27 their Union. That Union is a mystery to mortals such as ourselves.’ (For some complications 27
 28 hereabouts, pushing McGinn still deeper into ‘mysterianism’ (where Nagel is waiting for 28
 29 him) see McGinn (1995)). My alternative approach is to interrogate and problematise 29
 30 the problem much more deeply than ‘transcendentalism’ does, and to seek to return us 30
 31 to everyday wholistic perspectives on persons, perspectives which (quite naturally) 31
 32 therapeutically eliminate our sense that there is a genuine problem (or ‘mystery’) here at 31
 33 all. This method should, if successful, enable one to transcend the ‘positivistic/scientific’ 32
 33 vs. ‘ineffabilistic’ opposition, and attain a rigorously therapeutic and elucidatory conception 33
 34 of philosophy, as involving not the solving but only the dissolving of ‘problems’, in part 34
 35 on an *individual* basis. If one were going to risk entertaining Descartes-style ‘Clear Ideas’ 35
 36 talk at all, it would be best then to say something like this: That it’s to *humans* that we 36
 37 have a ‘Clear Idea’ of what it means to ascribe ‘information processing’ powers; and thus 37
 38 our only ‘Clear Idea’ of information is *tied* to our notions of consciousness. We can have, 38
 39 roughly, a ‘Clear Idea’ of consciousness, if only we overcome the tendencies which abound 39
 40 in philosophy toward obscuring the wholeness of human minds/bodies/beings. 40

41 ¹⁷ There is a connection here between my point and that of both Coulter and Watson 41
 42 in their writings referred to above. Just as methodological ironism and reductionism have 42
 43 been argued by them to be necessarily flawed methods – methods guaranteeing an endless 42
 44 fruitless succession of theories – in ‘cognitive’ or ‘social’ psychology, so I am suggesting 43
 44 that ‘divisionism’ and theory-driven philosophy of mind will have the same result. 44

1 progress' with the 'discrete' problems of intentionality, of information-receipt and 1
 2 information-communication, of perception, and so on. We strip these things away 2
 3 from the 'hardcore', and explain them in a manner which does not differ in kind 3
 4 from how we scientifically explain all sorts of other natural phenomena. We are 4
 5 left with a hardcore that more and more evades our scientific schemas. So we 5
 6 redouble our efforts, and so it goes on. 6

7 Now I am not denying that this divisionistic ¹⁸ 'stripping away' of bits of the 7
 8 mind-body problem for the purposes of genuinely scientific investigation can 8
 9 ever be productive. For example, neurophysiologists have of course learnt some 9
 10 interesting things. For example, we now understand the etiology of epileptic 10
 11 seizures, at least in brute causal/correlational terms, better than we used to. 11
 12 But we don't understand the causality (etiology) of such things better because 12
 13 we now know what 'information' really is, or because of anything remotely 13
 14 like this. We understand them better because of new technologies and careful 14
 15 observation – because of real science and medicine, not because of philosophising. 15
 16 The 'divisionist' and 'stripping away' stratagem, I have suggested, is in the end 16
 17 philosophically/methodologically disastrous. The problem of consciousness, as 17
 18 opposed to the problem of which bits of the brain are correlated more and less 18
 19 with what actions and events (which is a perfectly respectable scientific/medical 19
 20 problem), *will not* be illuminated by that stratagem. In fact – worse – as indicated 20
 21 above, the stratagem moves in precisely the *wrong* direction. It keeps pushing 21
 22 the hard problem forever *beyond our ken*. It can't re-bootstrap us into a better 22
 23 understanding: on the contrary. 23

24 In a remarkable and almost *faux*-Hegelian fashion, then, we can see how 24
 25 cognitivist 'optimists' concerning the mind-body problem and McGinnian 25
 26 'pessimists' are made for each other. The latter lead the former forever onward, 26
 27 and into greater and greater aping of science – precisely by means of denying that 27
 28 the problem is fully soluble. 'Optimists' redouble their efforts, on hearing how the 28
 29 mind of God (i.e. what is at the heart of the human mind) is supposedly off-limits. 29
 30 What a great prize it would be, against impossible odds, scientifically to uncover 30
 31 the mind of God (i.e. the nature of the mindedness of 'Man')! 31

32 If the 'optimists' are ever to be weaned off their search, a different approach will 32
 33 be needed. One which suggests not, as the 'pessimists' suggest, that consciousness 33
 34 is a scientisable or theorisable object, only one that will forever be beyond the grasp 34
 35 of our science. Rather, an approach that, roughly, questions whether consciousness 35
 36 is that (*or any kind of 'object' or 'thing'*) in the first place. 36

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42 ¹⁸ This term, 'divisionism', is my own invention. Recently, I learnt from McGilchrist 42
 43 (2009: 137) the following intriguing point: 'If one had to characterize the left hemisphere 43
 44 by reference to one governing principle it would be that of division.' 44

1 Sociological Approaches that Guarantee Failure to Connect Mind and Body 1

2
3 An approach to 'the mind-body problem' such as I have argued is actually needed 3
4 might be sought in sociology. But I have already intimated that I think one is 4
5 liable and likely to be disappointed in this domain, too. With certain very specific 5
6 exceptions (especially, much ethnomethodology, 'Wittgensteinian' sociology), 6
7 'positions' in sociology tends to be structured around the very same stale debates 7
8 – voluntarism versus constraint, structure versus agency, mind versus world – 8
9 which, albeit sometimes under different names, make up the playing field, the 9
10 'legitimate' spectrum of debate, in mainstream Philosophy.¹⁹ 10

11 I will just take one recent influential example, in order to sketch how this can 11
12 go, how sociology can guarantee failure to bring mind and body into any proper 12
13 alignment. (I intend this example to be illustrative, not of course exhaustive. If you 13
14 are not interested in it, or already convinced that sociological theory is unlikely 14
15 to offer a positive way forward here, then skip forward to the next sub-heading.) 15

16 Campbell (1996) is an attempt to rebut the 'social situationalist' doctrines he 16
17 sees in the likes of Garfinkel, Goffman and Giddens alike. Campbell wishes to 17
18 reinstate what he sees as Weberian 'action theory' as the basis of sociological 18
19 explanation, rather than taking all action to be social action, as he thinks that those 19
20 he criticises do. Campbell hopes to understand action as springing from mind (as 20
21 opposed to society); he hopes to understand sociology as effectively underpinned 21
22 by (or a branch of) psychology; and he seems to think that psychology will have 22
23 full-scale scientific legitimacy and explanatory power, either on its own account or 23
24 possibly by virtue of being tied into more basic sciences.²⁰ In short, he thinks that 24
25 the mind-body problem can be solved by means of properly placing sociology in 25
26 a causal-interpretive physiological-psychological context. He is thus precisely the 26
27 kind of person who vests his hope in full-blown 'human science'. 27

28 Campbell does not exactly say himself what I have just said of him. But many of 28
29 his presumptions and turns of phrase are pretty stark evidence for the extent to which 29
30 he has at root just such a (broadly 'Cartesian') approach in mind, and is assuming 30
31 throughout his book the legitimacy of the anti-Wittgensteinian idea that 'private 31
32 language' is coherent and existent, that motives are simply 'internal states',²¹ and so on: 32
33

34 19 See Sharrock (1989: 670) for detail on this point *vis-à-vis* disciplinary sociology 34
35 and ethnomethodology's lack of 'fit' with it. 35

36 20 In Chapters 4 to 8 of his book especially, Campbell repeatedly attacks 'social 36
37 situationalists for claiming to settle 'empirical' matters by reference to philosophy 37
38 (especially Wittgensteinian and 'ordinary language' philosophy). He thinks that theirs is an 38
39 unscientific and *a prioristic* approach. But this will inevitably appear, to the Garfinkelian 39
40 or Wittgensteinian, simply to be begging the question against their account – which is 40
41 not intended to be settling genuinely empirical questions but clarifying conceptual and 41
42 grammatical ones. 42

43 21 It is worth noting that Campbell utterly mischaracterises and garbles Peter Winch's 43
44 account of motive and reason, on page 73. This is perhaps a piece of supporting evidence 44
45 for my suggestion that Campbell is so much a mentalist that he cannot even understand 45

1 [S]trictly speaking, 'meaning' cannot be 'located' anywhere except in minds 1
2 (Campbell, 1996: 45). 2
3 3
4 The real problem which needs to be addressed is not so much whether actor and 4
5 observer attach similar or different meanings to a given action; it is whether there 5
6 are any grounds for believing that observers can *ever* know what constitutes the 6
7 actions of individuals unless they take the trouble to ask them. (Campbell, 1996: 7
8 50, emphasis added) 8
9 9
10 The basic truth is that our understanding of the actions of others is grounded in 10
11 our own experiences of agency. (Campbell, 1996: 78) 11
12 12
13 [O]nly actors can possibly know what their action consists of. But then that 13
14 should not be surprising because *all action is ultimately performed alone,* 14
15 undertaken by the individual as the sole agent. This is because all true actions 15
16 are the outcome of an 'act of will', a covert and personal event which actors 16
17 can perform only for themselves...It is *essentially personal,* intra-subjectively 17
18 created meanings which are the immediate and direct '*causes*' of actions. 18
19 (Campbell, 1996: 162, the book's closing paragraph, emphases added) 19
20 20
21 I will not work through these remarkable passages. The previous and following 21
22 portions of this Section (and of this book) should suffice to make clear my 22
23 deep doubts and worries about them. A variant of the views of those (many) 23
24 philosophers which I have been wanting to question in this Section can in fact be 24
25 seen *particularly baldly* and starkly in Campbell's work. He has apparently been 25
26 utterly unimpressed with Wittgensteinian 'anti-private-language arguments', is 26
27 every bit as much a methodological/ontological individualist as most mainstream 27
28 philosophers, and every bit as much a card-carrying mentalist as (say) Chalmers. 28
29 Campbell cannot even succeed in *conceiving* options besides the options a 29
30 theoreticist Cartesianism leaves open to one. (Thus he cannot understand the 30
31 possibility of the kind of alternative approach I have been intimating that we 31
32 need with regard to these matters, and that I detail below.) This confusion and 32
33 narrowness of vision on his part can be appreciated clearly by the simple device 33
34 of juxtaposing two passages from his peroration. Campbell (1996: 151) writes 34
35 that the 'social situationalism' which he opposes, because of its (supposedly) 35
36 privileging the vantage-point of the social observer over that of the actor, 'has 36
37 a strong behaviourist flavour'. Less than two pages later, he remarks that '[t]his 37
38 stress on the individual as an observer rather than an actor also helps to account for 38
39 the marked cognitive bias which is such a feature of situationalism.' Attributing 39
40 40
41 41
42 the possibility of not having a 'position' within the conventional space of 'Cartesian' 42
43 options (Dualism, Physicalist Materialism, Behaviourism, etc.) as to how to account for 43
44 the 'existence' of mind. 44

1 *both* behaviourism and cognitivism to someone is obviously absurd. Why does 1
2 Campbell drift into such absurdities? 2

3 Let me indicate why. Campbell (1996: 151) suggests that according to the 3
4 so-called ‘social situationalist’ paradigm, ‘human actors typically possess neither 4
5 mind nor body. The individual human being, who as a living, thinking actor was 5
6 once at the very centre of the sociological stage, has been completely dissolved 6
7 away, stripped of both mind and body, now no more than a ghost in the social 7
8 machine’. Attributing this obviously absurd and nonsensical position to his 8
9 opponents is only forced upon Campbell because he simply does not see *any* 9
10 *possibility* other than taking up a theoretical stance that essentialises human beings 10
11 into either mind and/or body, as these concepts are set out according to basically 11
12 Cartesian parameters. He thinks he is defending and simultaneously part of a 12
13 project of scientifically-explaining consciousness; he is actually just developing a 13
14 quasi-Cartesian/scientific parody of it. 14

15 Before leaving Campbell’s book, it is worth noting finally that he does not wish 15
16 to be thought of as a ‘causalist’ or ‘empiricist’, but as an ‘interpretivist’, after the 16
17 fashion of Weber. This just goes to show how very compatible ‘interpretivism’ 17
18 can be with over-intellectualisation of the issue here, with what I have called 18
19 ‘Theoryism’, with a conventional stance on the problem of consciousness, etc. 19
20 Moreover, Campbell sees Goffmann and Giddens as (anti-Cartesian) opponents.²² 20
21 But from the point of view of someone impressed by Garfinkel or Wittgenstein, 21
22 this would only go to show *how very deep and wide* the quasi-Cognitivist 22
23 Cartesianism in sociology runs. For Goffmanian dramaturgy, and Giddensian 23
24 (or even Geertzian) neo-interpretivism, are arguably – unless interpreted very 24
25 charitably – simply ironies and (over-)intellectualisations of life. 25

26 Let us delay no longer. What exactly is the alternative approach to consciousness, 26
27 to mind and body – an alternative to the approaches of Chalmers, Chomsky, the 27
28 Churchlands and Campbell alike – which I have in mind? 28

29 29
30 30

31 **An Alternative Approach** 31

32 32
33 We can generalise now from what we observed above in specific connection 33
34 with the concept of ‘information’. If we really want satisfaction, if we want to 34
35 get anywhere in relation to the philosophical problem that Descartes gave us, we 35
36 should not and will not *strip away* more and more of the human in order to try to 36
37 understand the human, to understand consciousness (We will not for example break 37
38 off and ‘operationalise’ the problem of information). The hardcore becomes *more* 38

39 39

40 _____ 40
41 22 See Campbell (1996: 16, 49). Campbell makes some good criticisms of Goffman 41
42 and Giddens, as of Veblen, Merton and Goldthorpe, on the grounds, roughly, of over- 42
43 intellectualism in their understandings of mind and action – but these criticisms should 42
44 in my view be heard as counting *against* Cartesianism and Theoryism, not *for* Campbell’s 43
44 hardline variant of it! 44

1 *and more* remote, the more we de-humanise aspects of mind such as information 1
 2 and perception and intentionality. The scientisation of consciousness if not just 2
 3 uncompletable – it is counter-productive. To get out of this unhappy dialectic, we 3
 4 need a *different* approach. 4

5 The problem will only really be being faced if we face up to it as a 'problem' 5
 6 that has to do with whole human beings, embodied, in a context (inextricably 6
 7 natural and social), at a given time, etc. . But once we really manage to succeed in 7
 8 seeing the 'problem' in that way there *is* no longer a problem. When one watches 8
 9 a graceful dancer, for example – or when one dances less or more gracefully – 9
 10 there is no mind-body problem. When one has an attitude toward another which 10
 11 involves seeing them as (say) dancing mindfully, being in the dance mind-and- 11
 12 body, or when one hears someone (as) speaking mindfully – when one simply 12
 13 allows oneself to see a 'body-self' in action – there is no philosophical problem. 13
 14 If we give up the scientific-mechanical view of the body, and perhaps say along 14
 15 with Aristotle that the soul is the form of the body – and along with Wittgenstein 15
 16 that the best picture of the human soul is the human body – then the 'problem' 16
 17 vanishes. The metaphors of mind that, especially since Descartes, Lakoff and 17
 18 Johnson show have sorely gripped us, suddenly and dramatically lose their grip. 18

19 So, to return to what has been my main example: when one thinks of the way 19
 20 the word 'information' is actually used in its 'home', outside certain rarefied 20
 21 academic contexts – when, again,²³ one thinks of requesting some information 21
 22 from a librarian or from a ticket-seller, for example ²⁴ – then it can become 22
 23 perspicuous to one that there is no problem. Only when one starts, say, to try to 23
 24 'theorise' information across human and non-human domains (supposedly using 24
 25 the non-human – the animal (usually in turn thought of as mechanical) or the 25
 26 machine – as one's paradigm, and thus getting things back to front) does there 26
 27 start to look as if there is a problem, as if there is a residuum which, however good 27
 28 our 'theory' of information gets, will not be accountable for by such a theory. 28
 29 This elusive residuum is the 'hardcore' which I am saying that the traditional 29
 30 and dominant approaches to the problem – *all* the mainstream options, all the 30
 31 31

32 23 The reader may by this point have become irritated by the (several) ways in which 32
 33 I repeat myself. Why do I do so? Because I am looking for what Wittgenstein called 'the 33
 34 liberating word'. I am looking for the way of putting these things which is *just right*. Not 34
 35 *correct*, but just right to dissolve a strongly-felt impulse to illusion. (Of course, there is not 35
 36 just one way of so getting things 'just right', for these things are partly personal. Thus any 36
 37 philosophic paper/chapter is in the end a second-best substitute for a conversation.) 37

38 24 These are, notably, contexts in which there is a clear link – normally, an 38
 39 interleaving – between information and *action*. The divorce of 'information' from action, 39
 40 almost inevitable if one dwells on computers as paradigms of 'information-processing', is 40
 41 one of the implicit – and disastrous – moves typically made by those who like to think of 41
 42 themselves as helping to solve bits of the mind-body problem. (On this, see the entry under 42
 43 'Information (Processing)' in Tallis (1999). 42

43 I urge the unconvinced reader at least to stop at this point and *think through* one of these 43
 44 scenarios that I have given again in some detail. 44

1 'isms' ('Cognitivism', Reductionism (to the brain), Behaviourism, and so on) that 1
 2 one is offered in a traditional undergraduate 'philosophy of mind' or 'theoretical 2
 3 psychology' class – push *further and further* from our reach.²⁵ 3

4 One gradually loses all sense of such a residuum, however, if one takes the 4
 5 alternative track, a track toward a clear view, which I am endeavouring to point up. 5
 6 Human beings, body-and-soul, do not of themselves lend themselves to a mind *vs.* 6
 7 body split. Only, ironically, does the effort to explain human beings in apparently 7
 8 well-founded scientific terms (e.g. in the terms of 'information-processing'; 8
 9 meanwhile ignoring that there is a non-problematic core set of uses of the concept 9
 10 of 'information', attention to which actually would help us dissolve the sense 10
 11 that there is a problem here!). The perhaps-uncomfortable but I think desperately 11
 12 important general result of my diagnosis is now clear: *The mind-body debate is the* 12
 13 *very disease of which it takes itself to be the cure.* The very debate, the very effort 13
 14 to find the 'solution' to (the various 'fragments' or 'sub-problems' of) the problem, 14
 15 *the very conceptualisation of the problem*, is the very thing which ensures that 15
 16 'the hard problem (of consciousness)' remains insoluble, and which perpetuates 16
 17 the existence of the problem. Thus philosophers of mind are driven to highly- 17
 18 desperate attempts at cure – the McGinn approach at one extreme, supernaturalistic 18
 19 dualism at another extreme, and Eliminativism, or Behaviourism, at yet others. 19
 20 The metaphors of mind have trapped us, absolutely: until we suddenly break their 20
 21 glass palace wide open, escaping the 'fly-bottle' that 'contained' us. 21

22 If one looks though to take the approach which I am recommending, one 22
 23 suddenly or gradually loses a sense of there being what McGinn calls a 'mystery', 23
 24 here. That *doesn't* mean that suddenly all human life is flat and dully obvious – 24
 25 far from it. One can actually *see human life*, at least rather clearer than before, 25
 26 if anything (including, sometimes: in its mystery). One can see the beauty of 26
 27 the dancer and the dance, the beauty of that unity, without perhaps being misled 27
 28 by reductionist questions about the mind and/versus the matter of the dancer.²⁶ 28
 29 No; what one loses is *the sense that there is a philosophical problem here that* 29
 30 *demands or begs an explanatory solution.* (Rather, there are metaphors that are 30
 31 no longer compulsory. Freed from their compulsion, with alternatives available, 31
 32 the whole debate that one was inside suddenly comes to appear peculiar, narrow, 32
 33 almost petulant.) 33

34 _____ 34
 35 _____ 35

36 25 Perhaps it is now still clearer how being a behaviourist or a materialist is not 36
 37 really being 'anti-Cartesian' at all. These supposedly anti-dualist approaches have not 37
 38 reconceptualised 'mind' and 'body', and thus they retain the imprint of Cartesianism, 38
 39 like prints made from a negative, because they have not given up (divisionistically etc.) 39
 40 theorising. They have not returned to our everyday talk and life, in which there is a 40
 41 'hardcore' of inextricable unity of mind and body. Instead, they keep the concepts of 'mind' 41
 42 and 'body' intact, and merely reduce the former to the latter. This is an entirely ineffective 42
 43 way of challenging the standard Cognitive-Science paradigm. 43

44 26 One can see it; one can see the person, mind-and-body: for nothing is hidden. See 44
 44 PI 435, Dupré (1998) and Shotter (1998). 44

1 As I have just suggested, one way of losing that sense is to notice that, 1
 2 paradoxically, it is the very demand for a solution to the problem that *guarantees* 2
 3 that one will never rid oneself of the sense that there is a problem here. The 3
 4 insistence that the mind-body problem is a problem, however much that leads 4
 5 one toward 'a partial solution', is the very act that ensures that one will never 5
 6 reach a satisfactory full solution, and ensures that the 'hard' problem will keep on 6
 7 receding out of reach. 7

8 One intriguing consequence of starting to come to terms with the 'alternative 8
 9 approach' that I am offering is this: consciousness 'itself' no longer seems quite 9
 10 so important. Under the microscope of 'divisionist', Cog.Sci., 'informationalist' 10
 11 etc. approaches, consciousness comes to seem like *a thing* that is always elusively 11
 12 slipping out of reach. But this quasi-reificatory attitude is a 'left-brain'-style 12
 13 attitude that is bound to miss the *difference* of consciousness and its *wholistic* 13
 14 *inter-relatedness* – that I have just been stressing – with life as a whole. Explicit 14
 15 conscious knowledge *tends to be itself a left-brain phenomenon* (cf. McGilchrist, 15
 16 1999: 164): the dance of the whole brain, the whole body, the whole person in 16
 17 a real context, generally with others, through-and-through embodied in a world, 17
 18 is something else, something more. Thus we start at last to get a proper sense of 18
 19 consciousness not as the be-all and end-all, but as *one* irreducible, crucial aspect 19
 20 *of a greater whole*. It is this whole – a whole brain (not just the left hemisphere), a 20
 21 whole person, in a real social and (ultimately) ecological and cosmological context 21
 22 – that we need to bring into view, and that an unhealthy post-Cartesian obsession 22
 23 with consciousness *occludes*. 23

24 It is not me, the defender of the distinctiveness of the human, but the 'scientific' 24
 25 mainstream, it turns out, that is obsessed with consciousness, drawn to it as a thing 25
 26 that endlessly fascinates because it endlessly defies objectification. Only once we 26
 27 start to cease tacitly to reify, and 'dissolve' consciousness back into the liquid 27
 28 where it has its home – the stream of life, the life of the mind of a person engaged 28
 29 in action along with others, etc. – can we escape this obsession. 29

30 30

31 *** 31

32 32

33 Some readers will as yet be unconvinced by my claims. In a persuasive effort, I 33
 34 am going to call upon Wittgenstein, in the *Philosophical Investigation.*, to speak 34
 35 for me – or rather, to open up a dialogical space. I am thinking now not just of the 35
 36 debates Wittgenstein stages in the anti-private-language considerations 'proper' 36
 37 (243–308; see also the epigraph to this Section), though those are of course highly 37
 38 relevant, but in the subsequent passages on the phenomenology of philosophical 38
 39 illusion; for example, in, on consciousness: 39

40 40

41 The feeling of an unbridgeable gulf between consciousness and brain-process: 41

42 how does it come about that this does not come into the considerations of 42

43 our ordinary life? This idea of a difference in kind is accompanied by slight 43

44 44

1 giddiness,—which occurs when we are performing a logical sleight-of-hand.²⁷ 1
2 When does this feeling occur in the present case? It is when I, for example, turn 2
3 my attention in a particular way on to my own consciousness, and, astonished, 3
4 say to myself: THIS is supposed to be produced by a process in the brain!— 4
5 as it were clutching my forehead.—But what can it mean to speak of ‘turning 5
6 my attention on to my own consciousness’? This is surely the queerest thing 6
7 there could be! It was a particular act of gazing that I called doing this. I stared 7
8 fixedly in front of me— but *not* at any particular point or object. My eyes were 8
9 wide open, the brows not contracted (as they mostly are when I am interested 9
10 in a particular object. No such interest preceded this gazing). My glance was 10
11 ‘vacant’; or again *like* that of someone admiring the illumination of the sky and 11
12 drinking in the light. 12
13
14 ‘Now bear in mind that the proposition which I uttered as a paradox (THIS is 14
15 produced by a brain-process!) has nothing paradoxical about it. I could have said 15
16 it in the course of an experiment whose purpose was to show that an effect of 16
17 light which I see is produced by stimulation of a particular part of the brain.—But 17
18 I did not utter the sentence in the surroundings in which it would have had an 18
19 everyday and non-paradoxical sense.’ (*PI*, 412)²⁸ 19
20
21 It is important to be clear about what this passage does *not* do. It does not, of course, 21
22 decisively dissolve the problem of ‘qualia’. It does not, of course, try to prove 22
23 preemptively that what the likes of Colin McGinn say about qualia (or indeed about 23
24 passages such as this) is mistaken. Wittgenstein *is not interested* in trying to do these 24
25 (impossible) things. Logico-philosophical insight, as Lewis Carroll understood 25
26 clearly, in his famous parable of the tortoise and Achilles, is not like that. What 26
27 it is like is coming no longer to be *compelled* by a picture or an obsession. What 27
28 Wittgenstein gives one is tools which may enable one to overcome one’s previous 28
29 *insistence* that (e.g.) there is something weird and in need of explanation, about 29
30 consciousness. He offers no more — and no less — than this. 30
31 This important passage from Wittgenstein seems to me then to encapsulate in 31
32 a condensed form much of what I have argued (if that is the right word) above. 32
33 Wittgenstein is trying to get us to consider the thought that it is not consciousness 33
34 that is weird, a weird ‘thing’, but only our attitude towards ourselves that is 34
35 (sometimes) weird, especially when we are either psychologically disturbed or 35
36 doing philosophy (either explicitly, or in the implicit form of social or psychological 36
37 theory). Then, we are inclined to forget just how specific are the circumstances in 37
38
39 _____
40 27 In the ellipsis, there occurs the following, in parentheses: ‘The same giddiness 39
41 attacks us when we think of certain theorems in set theory.’ For the parallel case there, see 40
42 Read (2002). 41
43 28 I have emended the translation very slightly. Cf. also *PI* 339, and the brilliant 42
44 discussion in McGilchrist’s (2009: 20) of how in ‘how’ terms (rather than in ‘what’ terms) 43
45 Descartes fails to separate mind and body *enough*. 44

1 which ideas of consciousness are actually invoked or mentioned, in everyday life. 1
 2 And, just as important, that consciousness itself is normally (arguably, always) 2
 3 itself intentional – i.e. that consciousness is consciousness *of* something. 'He 3
 4 was suddenly cognizant of the peril that he faced', or 'I am conscious of your 4
 5 capabilities in this field, Ms. Greenfield', or 'Right now, I am all too aware of the 5
 6 depth of the wound, doctor'; these are perhaps typical occasions for uses of the 6
 7 concept of 'consciousness'. 7

8 By contrast, philosophers frequently envisage no context at all for their 8
 9 invocations of the concept; this is very problematic. Wittgenstein was very aware 9
 10 of the specificity, practicality and intentionality of attributions of consciousness 10
 11 – outside of the even more specific and often downright peculiar or untethered 11
 12 context (or non-context) of a philosophy discussion, as the following dialogue 12
 13 evinces: 13

14
 15 'Human beings agree in saying that they see, hear, feel and so on. So they are 15
 16 their own witnesses that they have consciousness.' – But how strange this is! 16
 17 Whom do I really inform, if I say 'I have consciousness'? What is the purpose 17
 18 of saying this to myself, and how can another person understand me? – Now, 18
 19 expressions like 'I see', 'I hear', 'I am conscious' really have their uses. I tell a 19
 20 doctor 'Now I am hearing with this ear again', or I tell someone who believes I 20
 21 am in a faint 'I am conscious again', and so on. 21

22
 23 But can't I imagine that the people around me are automata, lack consciousness, 23
 24 even though they behave in the same way as usual? [J]ust try to keep hold of this 24
 25 idea in the midst of your ordinary intercourse with others, in the street, say! Say 25
 26 to yourself, for example: 'The children over there are mere automata; all their 26
 27 liveliness is mere automatism.' And you will either find these words becoming 27
 28 quite meaningless; or you will produce in yourself some kind of uncanny feeling, 28
 29 or something of that sort. (*PI* 417, 420)²⁹ 29

30
 31 Wittgenstein looks seriously at what the conditions are which alone make the 31
 32 problem of consciousness, 'the hard problem', compelling to one. He suggests that 32
 33 it is only the special situation that philosophers put themselves in (or perhaps that 33
 34 some of the mentally-troubled genuinely find or put themselves in) that makes them 34
 35 inclined to see consciousness as a *thing* at all, and that makes them wonder at 'it' 35

36
 37

38
 39 _____
 40 29 For a fascinating and compelling account of what happens if one actually does 39
 41 attempt to take dis-belief in others minds etc. seriously, see Sass (1994). Many schizophrenics, 40
 42 according to Sass, suffer from a real-life version of the typical philosopher's complaint of (to 41
 43 use Cavell's terms) being unable to *acknowledge* the world (and, especially, other people), 42
 44 and to insist rather on *knowing* it. In *PI* 420, this is what Wittgenstein is talking about – the 43
 45 acknowledgement of others *as* others, as 'souls'. For a fairly sympathetic exposition and 44
 46 critique of Sass, see Read (2001a); see also section 2.2, above. 44

1 being ‘connected’ to matter.³⁰ For from what perspective could it seem – does it 1
 2 (sometimes) seem – as though there is something weird about consciousness? From 2
 3 a perspective in which one’s ‘interiority’ is foregrounded, and in which the material 3
 4 world is seen as, if anything, then a brute ‘external’ Other to that interiority. (When, 4
 5 for example, one stares into space while under the influence of a drug; or perhaps 5
 6 after a heavy bout of reading Descartes.) *But there is nothing absolute or privileged* 6
 7 *about this ‘perspective’, about this peculiar state of mind*³¹ which philosophers may 7
 8 be especially prone to entertain. There is no such thing as a perspective from which it 8
 9 can be absolutely asserted that some or other aspect of the way the Universe is made 9
 10 up – e.g. that we are conscious; or that we talk; or that there is matter and energy, 10
 11 etc. etc. – is odd.³² 11

12 Suppose it were said: ‘The perspective from which it genuinely is odd that there 12
 13 is consciousness is the scientific – or more broadly, the ‘objective’ – perspective.’ 13
 14 I suspect that the perspective from which *this* is being said is not ‘*the scientific*’ 14
 15 perspective – some actual scientists, such as perhaps Raymond Tallis and Gerald 15
 16 Edelman and Iain McGilchrist, do not seem to find consciousness aberrant; that is, 16
 17 do not find it crying out for heavy scientific theorisation or replacement. I suspect 17
 18 that the perspective in question is broadly that of the ‘unity of science’ movement 18
 19 and its contemporary successors (that is, chiefly a philosophical and social scientific 19
 20 tendency) imbued with broadly reductionist prejudices. That is, only if one thinks 20
 21 that there must be a science of anything that really exists, and that such sciences must 21
 22 in some sense be unified or reducible to (a) fundamental science(s) (physics is the 22
 23 usual candidate), will one find consciousness alarming. But even among mainstream 23
 24 Anglo-American philosophers, reductionist and unity-of-science views are far less 24
 25 respectable than they used to be. Dupré has I think fairly decisively shown that such 25
 26 views are untenable, in part for reasons that can be appreciated simply by looking 26
 27 carefully at the actual practice of the natural sciences.³³ 27

28 _____ 28
 29 30 This suggestion is also pivotal to the argument of Division I of Heidegger’s *Being* 29
 30 *and Time*; and to the work of Cade-Hetherington (e.g., 1992). 30

31 31 See the quote from *PI* 412 above. 31

32 32 If anything is odd, ‘mysterious’, my own intuition runs somewhat differently. I 32
 33 rarely find the fact of consciousness odd any more; the thing that I tend to find ‘odd’ is that 33
 34 there is *any* thing – any such ‘thing’ as (and in) existence – at all. Not how the world is, but 34
 35 that it is at all, sometimes surprises me – as Wittgenstein: see (*TL-P* 6.44–6.52). See also 35
 36 Sass (1992), for detail on the phenomenology of philosophical delusion, in particular on 36
 37 the *circumstances* in which one is prone to philosophical illusion/delusion (and relevantly 37
 38 similar forms of psychopathological delusion). 38

39 33 See especially Dupré (1983, 1981, 1996: 108). Dupré’s arguments undercut 39
 40 the notion that we should always worry if there are two enduring very different ‘levels 40
 41 of description’ of what seems to us in some sense to be the same phenomenon. Thus he 41
 42 undercuts even Nagel’s unusual stance: that consciousness simply cannot fit into human 42
 43 beings’ scientific schemata, but must be a real objective phenomenon all the same. For this 43
 44 point need only worry one if one has a reductionist view of the task of science, and more 44
 45 broadly some ‘unified science’ point of view. 44

1 No good reason has ever been given for us to suppose that there must be a 1
 2 science of something, if it is to be regarded as real. There is no good reason to 2
 3 think that there should be a science of consciousness, or of the mind, or of society, 3
 4 any more than there need be a science of numbers, or of universes, or of capital 4
 5 cities, or of games, or of constellations, or of objects whose names start with the 5
 6 letter 'E'. If there is/are (a) science(s) of the mind, let us please hear what its 6
 7 genuine puzzles are, what its exemplary puzzle-solutions are, etc.³⁴ By this point 7
 8 in the book, I think I am entitled to contend that none such that would genuinely 8
 9 satisfy are available: that virtually all would-be scientific 'human science' is 9
 10 through and through *programmatically* – whereas *scientists* (i.e. practitioners of one 10
 11 or another natural science) generally care barely a jot for *a prioristic* programmes 11
 12 or methods, but just get on with it, with scientific work, with solving their puzzles 12
 13 and advancing their fields. 13

14 This does *not* mean, heaven knows, that there is nothing interesting to say about 14
 15 human beings beyond biology: there is such a *wealth* to say, using the approaches 15
 16 of (non-scientific) philosophy, history, literature, ethnography, etc. What there is 16
 17 not to say, I am suggesting, is anything analogous to the results of a science – and 17
 18 any attempt to turn some area of human studies into a science is likely to have 18
 19 exactly the kinds of *counter-productive* effects that I have been giving instances 19
 20 of in this Section. 20

21 So: there is no particular reason to trust one set of philosophical *intuitions*³⁵ 21
 22 (McGinn's, or Descartes's, or Searle's, or Campbell's, or indeed mine) over another, 22
 23 hereabouts. There is no particular reason to find consciousness innately surprising, 23
 24 and thus in need of 'scientific' explanation. I claim that, insofar as there is a problem 24
 25 or a 'mystery' which concerns consciousness, it tends to *dissipate*, when we turn our 25
 26 focus seriously to how people (ourselves included) actually talk, to what we actually 26
 27 do, to what actually happens to us in our world, to our actual existence. When we 27
 28 really meditate or look or listen, and stop idly thinking and theorising. For instance, 28
 29 I may get myself bewildered if I try to become self-conscious of *my consciousness*, 29
 30 and wonder how '*this*' could possibly be related to matter. But do I have any such 30
 31 difficulties if I simply become aware of my own breathing and thus of my mind-and- 31
 32 body (rather than trying to 'capture' or 'explain' my own thoughts); or of course if 32
 33 I look (with compassion, with openness) at someone moaning pitifully, or writhing 33
 34 in pain? And let us *not* think of the concept of 'pain' purely in the abstract. Picture 34
 35
 36
 37

38 34 I draw here on a broadly Kuhnian framework for the understanding of why it is 38
 39 that we tend to call something a science – i.e. that it exhibits the features of what Kuhn called 39
 40 'normal science', that it is not simply riven by schisms between schools, by foundational 40
 41 disagreements – as the 'human sciences' *are*. For detail, see Part 1, above. Cf. also the 41
 42 discussion toward the end of the 'Concluding Summary' to the present work, below. 42

43 35 For an impressive general case to this effect, see Hintikka's (1999). Particularly 43
 44 relevant for our present purposes is Hintikka's critique of the appeal to 'intuition' of 44
 Chomsky and others, on pp. 132–6.

1 instead (say) the scene of a terrible railway accident, or something you yourself once 1
 2 saw (say) in a hospital. 2
 3 Or, let us even take a somewhat atypical case – arguably a kind of case 3
 4 which could not be the paradigm, but which is a variant special case of pain in 4
 5 public: What if one is alone, and is oneself suddenly afflicted by some kind of 5
 6 pain? I would go so far as this: if one stops thinking of the consciousness-brain 6
 7 ‘connection’ obsessively, and instead has some pain inflicted on some region of 7
 8 one’s body, one won’t suffer from a sense of the ‘mystery’ of mind and body any 8
 9 more. Even in an artificial situation, where it’s hard not to be prejudiced by all 9
 10 the philosophical theorising we’ve learnt in a culture saturated with dualistic *and* 10
 11 scientific ideology, this still may work. Try it now. Give yourself some kind of 11
 12 hard blow, or at least a hard scratch. You feel it where you were scratched – of 12
 13 course – and that’s not surprising. You are not surprised, merely slightly pained. 13
 14 You are a whole person, and it is *you* that thinks, or feels pain, not one of your 14
 15 organs or a part of your body.³⁶ And now I think we can see more clearly the 15
 16 location of a key mistake made by almost every mainstream thinker in the field. 16
 17 We need to *start* with the idea of ourselves as embodied persons, acting in the 17
 18 world, NOT with the idea of ourselves as brains with minds ‘located’ in them, or 18
 19 ‘attached’ to them – whether materially, computationally, supernaturalistically, or 19
 20 what have you.³⁷ If we don’t *start* with that idea, we will certainly never be able 20
 21 to *reach* it through a process of theoretical reduction, of ‘division’, and so on! 21
 22 The thought-style we need, we academic students of mind and society and culture 22
 23 *especially*, is one we are especially resistant to: we need a methodology of thinking 23
 24 that places centrally our embodiment and our actions (and our interactions). That 24
 25 will be more productive than just thinking about and focussing on our intellectual 25
 26 problem-solving and our contemplation. 26
 27 Wittgenstein gives us a good opportunity to overcome, by means of persuasion and 27
 28 redirection of attention, our tendency – especially we intellectuals – to alienate ourselves 28
 29 from our own ordinary embodiment, our seamless mind-and-body-and-soul-ness. 29
 30
 31
 32 **On the Persistence of Consciousness-boggle** 32
 33
 34 I know that some readers will still not be satisfied. Some of you will be dissatisfied 34
 35 by my method. You will think that this Section lacks argument, and is too devoted 35
 36
 37
 38 ³⁶ A more detailed version of much the same point is to be found in Hacker (1990). 38
 39 For instance, Hacker reminds us that it is misleading to think along the following lines: 39
 40 ‘The brain is our organ for thinking and feeling, much as the intestines are our organ for 40
 41 digesting’.
 42 ³⁷ And to think of ourselves simply as brains, without any mind ‘attached’, as 41
 42 eliminativists do, is still to think *within the same thought-style*, within the same quasi- 42
 43 Cartesian space, as dualism, transcendental naturalism, and the rest. I am suggesting a more 43
 44 radical break with that thought-style. 44

1 to rhetorical efforts at persuasion. To such readers, I can only say once more that 1
 2 this Section, and indeed this book, is indeed perhaps not exactly best construed as 2
 3 a work of argumentative non-fiction, but as a work of would-be *therapy*.³⁸ 3

4 Some of you, be you sociologists or psychologists or philosophers or what- 4
 5 have-you, be you even sympathetic to my general intellectual orientation, including 5
 6 even perhaps my philosophical methods, will still find yourselves feeling things 6
 7 like, 'But even after all this discussion, *even if* I might find myself intellectually 7
 8 rather convinced by Read's methods and arguments or at least very taken with 8
 9 their rhetorical force, I still sometimes want to say, while looking into the mirror: 9
 10 "How can I be *this*?" Or alternatively, if I really reconcile myself to my physical 10
 11 existence, I still want to say, contrariwise, "It is just so weird, that *this/any* physical 11
 12 thing can be *conscious*. How is consciousness *possible*?" 12

13 As long as these questions persist – and though I myself feel their pull relatively 13
 14 rarely, yet it would be quite untrue to deny that I ever feel it – then the task of the 14
 15 Wittgensteinian therapist of philosophy and of 'social science' and of culture is not 15
 16 over. Why *do* these questions persist? 16

17 Does their persistence not indicate a weakness or gap in my line of discussion? 17
 18 Does the mind boggling at consciousness not presage a truth at the heart of the 18
 19 words of those who (like Campbell, like Chalmers) wish to regard the (heart of 19
 20 the) mind-body problem still as a genuine problem? Does it not perhaps support 20
 21 specifically the thought of those who (like McGinn) worry that we will always 21
 22 feel this boggle, that consciousness will always elude our (human) grasp *and* 22
 23 (specifically) our (Wittgensteinian) therapeutic deflations alike? 23

24 I do not think so. What is indicated, rather, is this: precisely that 'the problem of 24
 25 consciousness' is *not* in the end an intellectual problem, at least if by 'an intellectual 25
 26 problem' we mean a problem accessible to full resolution by the normal stratagems 26
 27 of academic debate in the human sciences/studies. It is rather a deep problem of 27
 28 our culture – and of our selves. It is, we might say, an intellectual *trap* that has its 28
 29 roots in our *intellectualism*. In our continual reaching for intellectualist answers/ 29
 30 solutions to problems that are in part problems of being captivated by metaphors 30
 31 that contain within them all such 'answers'; and in part problems of *mood*. 31

32 Thus, my cautious talk above of my alternative approach offering an 32
 33 *opportunity* to return to the everyday; of an immersion in real life (in dance, 33
 34 in *meeting* others, etc.) as *tending* to foster a diminution or dissolution of 'the 34
 35 _____ 35
 36 _____ 36

37 38 Why 'perhaps'? Because it would be a silly pragmatic self-refutation for me to 37
 38 say that my Section here is therapy *as opposed* to argument. That would imply that I can 38
 39 survey the terrain of the debate about consciousness quite from outside, and tell you what 39
 40 kind of debate it *really* is. Whereas, all I wish to do is to offer a characterisation that you 40
 41 may find helpful: try thinking of what I am doing in this paper as engaging in a therapeutic 41
 42 conversation with myself, and with you, as providing a series of provocations to better self- 42
 43 knowledge. I believe that *what philosophers have traditionally thought of* as argumentation 42
 43 hereabouts, by contrast, misfires, and tends, as I have argued (!), to *worsen* and not to 43
 44 improve our state of understanding. 44

1 problem of consciousness'; of *gradually* losing one's sense of a necessary boggle; 1
 2 and above all, perhaps, of being convinced or persuaded of something by means 2
 3 of *a redirection of attention*, not by means of a sequence of logical arguments. 3
 4 In the sense of the word 'argument' common in Analytic philosophy and in 4
 5 'scientific' sociology, it would be reasonable to say: there are at the crucial 5
 6 junctures no arguments at all in my paper. I have not proved anything decisive 6
 7 about consciousness, or even about language. I have not refuted dualism, or 7
 8 eliminativism, or even any kind of scepticism. 8

9 I have not tried to argue that 'qualia' pose no philosophical or human-scientific 9
 10 problem. Nor have I tried to argue that we should set aside such problems. Rather, 10
 11 I have made effort after effort not to generate illusory problems with the ordinary, 11
 12 and to discourage you from doing so. I have no argument with which to solve or 12
 13 even dissolve 'the hard problem of consciousness', nor do I have an argument 13
 14 that there is no such problem. If I did, I would be a conventional philosopher. 14
 15 And such conventional philosophy never succeeds, never settles anything. My 15
 16 unconventionality consists in trying only to get you to drop your insistence that 16
 17 there *certainly is and must be* such a problem. Following Baker's (2004) rendition 17
 18 of Wittgenstein's methodology, I simply, doggedly, try to make available an 18
 19 alternative possibility. An alternative perspective, from which 'your' dogged 19
 20 certainty itself appears to *be the problem*. My task is potentially endless; for, even 20
 21 if I succeed in re-orienting your thinking such that the problem of consciousness 21
 22 dissolves for you, there can be no guarantee that it will not be provoked into 22
 23 returning again, in you, or indeed in me. 23

24 The boggle at consciousness (a boggle manifested most powerfully in 24
 25 'physicalist scepticism' in the eliminativist incredulity at their being anything more 25
 26 than 'blank body' in the world), and the symmetrical boggle at body (a boggle 26
 27 manifested most powerfully in Cartesian scepticism and its successors), are not in 27
 28 the end, I suggest, intellectual problems in the standard sense. Contrary to what 28
 29 many 'optimistic' philosophers, 'cognitive scientists', psychologists, sociologists 29
 30 etc. would like to think, these problems are not amenable to solution by means of 30
 31 argument;³⁹ or at least, not by means of anything like argument alone. They are 31
 32 historical problems; they are cultural and even political problems; and they are 32
 33 individual psychological problems (i.e. problems of 'mental health').⁴⁰ They are, 33
 34 as Wittgenstein suggested, problems of practice, of attitude, of the will. In sum, 34
 35 they are, as Heidegger and Stanley Cavell have suggested, in large part problems 35
 36 of 'appreciation' (of life), and problems of *mood*. 36

37 Take Cartesian scepticism. What Wittgenstein, and Cavell, and Heidegger have 37
 38 been after, and what has made them so difficult to assimilate into 'the academic 38
 39 world', is that they do not treat the Cartesian impulse as principally to be evaluated 39
 40 by means of arguments for and against its philosophical position. They take such 40
 41 41

42 39 And not because they could be solved, though not by us, but only by God or super- 42
 43 clever Martians. 43

44 40 See for instance Section 2.3, above. 44

1 arguments to be ultimately impotent, and indeed a distraction, a sublimation, 1
2 an avoidance of real (and scary and harmful, as well as in a way revelatory) 2
3 experience. The root of the Cartesian impulse – the impulse that eventually results 3
4 in 'Dualism' – is an attitude, an anxiety, a *mood*, in which the world doesn't feel 4
5 reliably or completely *real*. All premises and conclusions are impotent in the face 5
6 of such a mood. This mood (of unreality) is, when felt, very real, and often *very* 6
7 frightening. When I myself have been subject to it, I have felt the utter impotence 7
8 of all 'refutations of solipsism' and 'arguments against scepticism' and 'solutions 8
9 (or even 'dissolutions') of the mind-body problem. If there is persuasion back out 9
10 of this mood, it is the kinds of persuasion I have used and mentioned and gestured 10
11 at in this Section. For example, a 'persuasion' of one person talking *with* and being 11
12 *with* (and dancing with?) another, not a persuasion of one person forcing another 12
13 to accept the rationality of a conclusion. 13

14 Moods such as 'the Cartesian mood' can be understood only by entering into 14
15 what one not in the grip of such a mood will usually find to be nonsense – but 15
16 that something 'is' nonsense doesn't always stop one from feeling persistently 16
17 as though it isn't. And moods can be altered only by processes which are partly 17
18 orthogonal to 'the space of reasons'. Hume, Wittgenstein, Heidegger, Cavell and 18
19 Cora Diamond can help us to understand these moods by giving us entry points 19
20 into them 'imaginatively' – not by literally making sense of them. They can help 20
21 us by offering us strategies for understanding their etiology, and not by supposedly 21
22 reducing them to nothing, or repressing them by rational argument. By offering us 22
23 quasi-behavioural strategies for taking our attention and our practice into places 23
24 where these moods are less likely to arise or persist – not by denying that the 24
25 phenomenon of boggle at body (or, symmetrically, of boggle at consciousness) is 25
26 a phenomenon which people experience, suffer, and even use. 26

27 When Chalmers insists on the tenability of Mind-Body Dualism, or when 27
28 Campbell insists that individual minds are the true locus of all meaning and 28
29 intention, the underlying motivation, I wish to suggest, is a persistent boggle at 29
30 body (which includes, crucially, a boggle at there actually being other people). This 30
31 boggle is, I am suggesting, above all a mood, and not a logical conclusion. It is a 31
32 way of seeing the world, a particular set of qualia and intellections, a pathological 32
33 way of being-in-the-world, or even of *not-being-in-the-world* (cf. 2.3, above). I 33
34 say this not to mock it – I would be mocking myself. I have been in this mood, just 34
35 as I have occasionally been in the 'opposite' mood of incredulity at consciousness 35
36 (including even my own), and somewhat less occasionally in the rather different, 36
37 orthogonally-boggling mood of incredulity at there being *anything* at all, anything 37
38 *whatsoever*. Such moods require 'therapy' – whether it be Wittgensteinian therapy, 38
39 or psychotherapy, or the therapeutic comfort and reorientation offered by dance, 39
40 by love, by walking and talking in the park or in the hills, even repetitive work. 40

41 The specifically Cartesian mood, the felt mood of boggle at body, is the scariest 41
42 of all, in my experience. I think that we would do ourselves and our philosophical 42
43 and cultural inheritance a great service if we were honest about this, and if those of us 43
44 who have experienced such moods wrote honestly about our experiences, and wrote 44

1 honestly about (I suspect) the irrelevance to such experiences of all the gassing about 1
 2 knowledge and evidence and doubt, about mind and body, structure and agency, 2
 3 self and other, and so on. It would also be of great service if those of us, if there are 3
 4 any (and I strongly suspect that there are) who have truly never experienced such 4
 5 moods, confessed that we were engaging in debate about mind and body from a 5
 6 position of mere abstract interest in argument, in mental gymnastics, and *not* from 6
 7 a position of comprehending what it is like to be a participant in a lived experience, 7
 8 an experience which motivates, as desperation motivates, a real debate or discussion 8
 9 or confession or oration. The concern I have about all of the standard ‘positions’ on 9
 10 mind, on consciousness, even that of McGinn, Nagel *et al*, is that they dress up as an 10
 11 intellectual conclusion what is actually the outworking or sublimation of a perhaps 11
 12 inchoate but nevertheless lived mood. 12

13 This is part of what I mean by saying, as I want to say, that the mind-body 13
 14 debate is a zombie. Unless we find ways of laying it to rest, perhaps over and 14
 15 over, in our own lives – in our culture(s), in our societies – and (not just) in 15
 16 our academic work, then it will ‘live’ on – and *we* will risk becoming zombies 16
 17 as a result. That is, we will risk either immersion in distracting, substitutional, 17
 18 intellectually bankrupt and ultimately empty theories, or (still worse) we will 18
 19 risk possession by moods which empty us of our capacity for any kind of sane 19
 20 life. ‘Theory’ (as opposed, to put it slightly crudely, to ‘therapy’) is largely 20
 21 *impotent* when it comes to addressing the *underlying* malaises of our ‘mental 21
 22 lives’. This is the final (and actually, humanly important) lesson that comes from 22
 23 reflecting upon ‘the problem of consciousness’. 23

24 This is a lesson that makes this section, 2.5, important for the argument of the 24
 25 entire book. For here we have reached a point quite clearly beyond Kuhn, and 25
 26 probably beyond Winch too. Here it has become clear that there are aspects central 26
 27 to our lives with thinking that are not susceptible to answers through thinking 27
 28 unless we radically question our paradigms of what ‘thinking’ is. The present 28
 29 Section functions in a way then as a kind of pre-conclusion to the entire book: it 29
 30 suggests that, at the end of the road of thinking through the methodology of the 30
 31 sciences, a Wittgensteinian perspective returns us to ourselves and offers us the 31
 32 outline of a ‘cure’ of ourselves; a cure that we have to *live*.⁴¹ 32
 33 33
 34 34
 35 35
 36 36
 37 37
 38 38

39 _____ 39
 40 41 Thanks to Ken Westphal, Angus Ross, Emma Willmer, and Rod Watson 40
 41 (especially), and also to John Collins, Chris Cowley, Kelley Dean Jolley, John Arthur, 41
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 44 referee, for useful ideas and comments on earlier drafts of this Section. 44

A Concluding Summary

1
2
3
4
5 Philosophy asks ‘Why does it have to be thus?’ and ‘Why should it not be thus?’;
6 questions that are beneficial in science, because they clear away prejudices.
7 Ludwig Wittgenstein, MS 133, 60v.¹
8
9 Science: enrichment and impoverishment. The one method elbows all others aside.
10 Compared with this they all seem paltry, preliminary stages at best. You must climb
11 down to the sources to see them all side by side, the disregarded and the preferred.
12 Ludwig Wittgenstein, *Culture and Value*, 69.
13
14
15 The fundamental conception of this book has been to introduce a ‘therapeutic’,
16 liberatory, Wittgenstein spirit into reflection on the methodology of the sciences
17 (and of the ‘sciences’). Wittgenstein has been widely misunderstood as hostile to
18 science.² What Wittgenstein was in fact hostile to is only: *scientism*.
19 Scientism imagines that all of ‘science’, and ultimately all of whatever can be
20 understood or explained, can be so via ‘the scientific method’. We are now in a
21 position to see just how horribly wrong this ideology is.
22 The scientific approach approaches the world like we sometimes imagine an alien
23 would: As completely alien. As needing to be exhaustively categorised, in terms we
24 cannot anticipate *a priori*. There is *something* right about this, so far as it concerns
25 science: It captures an aspect of normal science (the relentless effort to categorise and
26 explain) and an aspect of revolutionary science (the strangeness, at root, of the ‘new
27 world’ that is presented by a Copernicus, a Lavoisier, an Einstein, etc.). It is strikingly
28 wrong as a would-be approach to the *process* of understanding science itself: here, we
29 have to apply historical and hermeneutic etc. methods (See *ISS* 88–9).
30 Analogously: the scientific approach is wrong for the ‘subject-matter’ of ‘the
31 human sciences’. The approach in their case should be, roughly: ‘from the inside’.
32 *Via* familiarity, of an appropriate kind (which may take some finding: see 2.1,
33 above; we have to re-allow a kind of ‘alien-ness’, in cases of genuine social etc.
34 puzzlement). In relation to human studies, then, the strange is only: what won’t
35 fit (yet) with what we already know. This can sound strikingly similar to the
36 enterprise of normal science, but there is a vast difference, to which McGilchrist is
37 particularly attuned: For the ‘knowledge’ we already have in the case of the human
38 world is in turn knowledge ‘from the inside’, knowledge we ‘inhabit’. Knowledge
39
40
41 1 Thanks to Oskari Kuusela for pointing out this quote to me, and to Philip Wilson
42 for help with translating it.
43 2 A useful recent source for making clear Wittgenstein’s closeness, in many regards,
44 to science, is Janik (2006).

1 of the living, as by one of the living; knowledge which isn't (overly) *knowing*. 1
 2 Knowledge, that is, which lacks *knowingness*.³ 2

3 This is what I have sought to emphasise periodically in this book: especially 3
 4 at the close of 2.3, and also, in a preliminary way, at the close of 1.3: That the 4
 5 difference between ordinary scientific understanding and the kind of understanding 5
 6 characteristic of the human studies is not exactly a difference in subject-matter 6
 7 (For that would be the left-brain's way of putting it). It's more a matter of *subjects* 7
 8 (as opposed to objects). And: Subjects are not a subject-matter. They demand a 8
 9 different way, a different how. 9

10 My reader might frustratedly be asking: 'Please can these metaphors be 10
 11 'cashed out', these elliptical ways of speaking be simplified and factified!' But that 11
 12 demand itself reveals a failure to take the difference being unconcealed here. We 12
 13 are inevitably in the domain of metaphors here, a domain which cannot be escaped 13
 14 without violence being done to the phenomena, without *over*-literalisation. We are 14
 15 in the domain of what Wittgenstein called 'objects of comparison', the domain of 15
 16 'therapy'. (From a 'left-brain' perspective, this is endlessly unsatisfying; from a 16
 17 'right-brain' perspective, it is inevitable.⁴) 17

18 In the academy, and in the world at large, 'theorising' and (most forms of) 18
 19 'explanation' may indeed be on the ascendant – theoryism and scientism run 19
 20 rampant, their models clearly rule the academy (look for instance at the way that 20
 21 all funding councils are modelled on science funding councils; at the way that 21
 22 the catch-all term 'research' so patently ill-fits many of the humanities, such as 22
 23 creative writing; and so on) – but this a castle built on quick sand, outside of its 23
 24 natural home. 24

25 Why? Well, it's a question of logical priority. 'Theorising', as an activity, is 25
 26 in some respects a natural language pursuit, *and is inevitably the more so*, the 26
 27 less it is reducible to maths and *the more its would-be subject-matter is subjects* 27
 28 (unless the theorising loses any tether to socio-human reality, as happens 28
 29 sometimes in for instance economics, in which case it reverts to being simply 29
 30 something like 'applied' maths), for reasons we have explored at times in part 2, 30
 31 above. Theorising employs linguistic resources many of which have not yet been 31
 32 clarified, have not had their logical grammars already made explicit and analysed.⁵ 32
 33 Until the resources – resources taken ⁶ from our manifold metaphorical 'systems' 33
 34 34

35 _____ 35
 36 3 See McGilchrist (2009: 96–8). Kuhn and Winch, I suggest, manifest a wonderful 36
 37 lack of knowingness. By contrast, scientism and post-modernism alike are horrifically 37
 38 *knowing*. 38

39 4 The urge to make the 'inexplicit' explicit is the endless urge of the left-brain; also, 39
 40 of the pornographer. See the final chapter of McGilchrist's (2009) for discussion. 'Making 40
 41 explicit' can reduce/crudify/destroy the very phenomena it means to 'capture'. 40

42 5 This for instance is why Lakoff and Johnson, like Wittgenstein before them, found 41
 43 such rich pickings in philosophy, and in relation to linguistics, psychology, mathematics, 42
 44 economics, and so on. 43

44 6 In ways that are in many cases usefully explicited by Lakoff *et al.* 44

1 of conceptualising, inevitably manifesting or parasitic on the concepts actually 1
 2 used by members of a culture, the methods of the people – used by ‘theorisers’ are 2
 3 treated as topics for explicit attention ⁷ rather than as unexamined, unexplicated, 3
 4 taken-for-granted resources, theories *cannot* be expected to be coherent, and will 4
 5 always rely on (and be compromised by) the largely unknown properties of those 5
 6 resources.⁸ Even if one sees it as a valid objective to ‘theorise’ (which, obviously, I 6
 7 tend not to, in relation to ‘the human sciences’, let alone to the humanities proper), 7
 8 *theorists remain in need of Wittgensteinian clarifications*, etc. . This latter is not 8
 9 (just) a ‘definition of terms’ but an examination and investigation of the linguistic 9
 10 resources that actually shape philosophical etc. theories. 10

11 Of course, once more, none of this implies in the slightest that there cannot 11
 12 be science proper, nor even that our idea of the epistemological status of actual 12
 13 science needs significantly revising. For scientific theorising is, as Wittgenstein 13
 14 put it, capable of undergirding new uses of words (provided of course that the 14
 15 theory is well-attested) in ways that philosophical etc. theorising is not: ‘In a 15
 16 scientific perspective a new use is justified by a theory. And if the theory is false, 16
 17 the new extended use has to be given up. *But in philosophy the extended use does* 17
 18 *not rest on true or false beliefs about natural processes. No fact justifies it. None* 18
 19 *can give it any support.*’⁹ 19

20 In Sharrock and Read (2002), we showed that a Wittgensteinian reading of Kuhn 20
 21 was possible, and argued roughly that the more Wittgensteinian Kuhn was, the 21
 22 better. Kuhn too has been widely misunderstood as hostile to science, when in fact 22
 23 he was only hostile to widespread mischaracterisations of science. (The book was 23
 24 about as charitable as possible to Kuhn, from a Wittgensteinian angle. As I noted 24
 25 in the Preface, above, some, such as Fuller (2005), have argued that actually the 25
 26 interpretation offered was of Kuhn as he should have been from a Wittgensteinian 26
 27 perspective (‘Kuhnenstein’), not of Kuhn as he actually was. Possibly. What matters 27
 28 in the end is developing with the reader’s aid the right philosophical/methodological/ 28
 29 therapeutical orientation – not whose name to put to it.) 29

30 But Sharrock and Read (2002) did not particularly aim to take up a distinctively 30
 31 *therapeutic* conception of Wittgenstein’s philosophy, the kind of conception present 31
 32 for instance in Crary and Read (2000), and in Baker’s later work (his (2004), etc.). 32
 33 What Part 1 of the present work does is attempt to correct that omission, or at 33
 34 least to fill out somewhat what a therapeutic Wittgensteinian vision of Kuhn as 34
 35 a methodologist offering us for the first time ever a decently-complete vision of 35
 36 the concept of science (i.e. of our paradigm of science, natural science) would be. 36

37 37

38 38

39 ⁷ This would be ethnomethodology’s way; and my thanks to Rod Watson for the idea 39
 40 of this paragraph. 40

41 ⁸ This is why, for instance, it is a fool’s errand to search for THE single unified nature 41
 42 of ethics, as most ‘moral theory’ does. Ethics/morality is inevitably plural/disunified (as 42
 43 Lakoff and Johnson lay out). 43

44 ⁹ P.44 of his (1980); emphasis added. 44

1 The way that I undertook outlining and filling in that vision was as follows. In 1
 2 1.1, I reminded the reader of what is often forgotten, the explicit presence in Kuhn 2
 3 of elements of a therapeutic understanding of the process of science itself, at times 3
 4 when science gets ‘ill’ (when, that is, the paradigm in a discipline is ‘monstrous’, 4
 5 or when it is on the point of breaking apart or multiplying into different discrepant 5
 6 forms). I then offered a reading of the most controversial chapter of Kuhn’s *Structure* 6
 7 of *Scientific Revolutions* (on ‘world-changes’) highlighting the delicately more-or- 7
 8 less therapeutic way in which it is *written*, a manner of careful composition which 8
 9 draws the sting from the still-widespread uncharitable reading of that chapter as 9
 10 committing Kuhn to (what *would* be clearly un-Wittgensteinian) a substantive 10
 11 semantic relativism. If my reading is successful, it defeats the strongest textual 11
 12 evidence there is for a problematically relativist reading of Kuhn. 12

13 Thus 1.1 assembles crucial evidence for Kuhn as a therapeutic thinker in a 13
 14 more or less Wittgensteinian mold, and (thus) suggests some reason for thinking 14
 15 of Kuhn as a truly Wittgensteinian philosopher of science. This sets the scene for 15
 16 the remainder of Part 1, and to some extent for the book as a whole, insofar as what 16
 17 the book is concerned with is assessing the extent to which it is helpful to regard a 17
 18 *variety* of disciplines as ‘science(s)’. 18

19 1.2 – 1.3 explored the great objection to the ‘programme’ for reading sketched 19
 20 and examined in 1.1: namely, the enduring *attractions* of reading Kuhn as 20
 21 committed to a dogma of strong semantic relativism. It did so initially in a way 21
 22 bypassed in my earlier book: by *inhabiting* those attractions. In other words, the 22
 23 conception of the progress from 1.2 to 1.3 *is itself a fundamentally therapeutic* 23
 24 *one*: My aim ¹⁰ was to invite the reader to explore the attractions of that influential 24
 25 relativist reading of Kuhn (including the genuinely powerful motivations (stressed 25
 26 by Kuhn himself) for applying Kuhnian thinking about science to the philosophy, 26
 27 epistemology and methodology of science) *so as to find the most effective possible* 27
 28 *way of exhausting them*. Thus the conception of Part 1 of the book is in this respect 28
 29 analogous to the conception of Wittgenstein’s *Tractatus* on the therapeutic reading 29
 30 of that work: to inhabit a philosophical temptation, an attraction, so as better to 30
 31 be able to know and to *overcome* it. By the end of 1.3, I hope that the reader 31
 32 will have thoroughly exhausted the desire to find in Kuhn’s central concept of 32
 33 incommensurability a relativistic semantic doctrine, and to have reached instead the 33
 34 broadly Wittgensteinian (and Winchian) moment of seeing incommensurability as 34
 35 a fundamentally *methodological/therapeutic* device. What ‘incommensurability’ 35
 36 is, above all, is a means for the historian of science to understand defunct paradigms 36
 37 without assimilating them to our current interests in Whiggish fashion (and thus 37
 38 without losing sight of their ‘alienness’), and for certain (self-aware / reflective) 38
 39 practicing scientists or anyone interested in reflection on the nature of scientific 39
 40 progress to understand how such progress renders the past of science a place that 40
 41 is difficult to explore without such Whiggish assimilation. 41

42 _____ 42
 43 ¹⁰ Which would have been undermined had it been blatantly disclosed at the opening 43
 44 of the book; better to foreground and state it directly only at the end of 1.3, and now. 44

1 Thus 1.2–1.3 exhausted what McGilchrist would think of as the (revealingly 1
 2 widespread) ‘left-brain’ endeavour to interpret Kuhn as purveying a *doctrine*, a 2
 3 theory about science and about meaning. By the end of 1.3, one is left instead 3
 4 with the outlines of a more ‘right-brain’ wholistic, unscientific picture of what a 4
 5 Wittgensteinian (Kuhnian) orientation toward the natural sciences would/should 5
 6 consist in: An unrelenting trying to *make sense*. To make sense of the world, 6
 7 and (following the methods of ‘human studies’, of history etc.) to make sense of 7
 8 previous/‘alien’ visions of the world (i.e. of out-of-date science). 8

9 There then followed (1.4) a brief investigation of what is too often left aside 9
 10 when incommensurability is discussed; namely, Kuhn’s important remarks on 10
 11 incommensurability of scientific *values*. I related these directly to Kuhn’s main 11
 12 reflections on incommensurability. The importance of these for the general 12
 13 approach of the book was once again to make clear how Kuhn is no Relativist, and 13
 14 thus to head off pre-emptively a potential misunderstanding of Part 2 of the book 14
 15 (as a set of exercises in Relativism). 15

16 And Part 1 was rounded out (1.5) by a still-terser account (one clearly building 16
 17 on 1.2–1.4) of just why it just isn’t terribly helpful to see Kuhn as having a ‘model’ 17
 18 of science, and of the relation of this point to questions of science policy, via 18
 19 the suggestion that allegedly Kuhnian relativism or allegedly anti-Kuhnian ‘social 19
 20 epistemology’ as put forward by Fuller *et al* offer an equal poverty of policy 20
 21 advice, and that a richer place to start is with the thought that Kuhn facilitates for 21
 22 us a sense of the considerable (but inevitably non-total) extent to which science 22
 23 (but not technology) thrives on and is entitled to a freedom from broader societal 23
 24 dictates. (This leads naturally into Part 2 of the book.) 24

25 What Part 1 is supposed to leave one with is an enriched sense of what one 25
 26 oneself will take to be the relevant features of science that Kuhn’s conceptualisation 26
 27 of scientific methodology enables one to bring focally into view: the nature of 27
 28 normal science, and of its occasional transmutation into extraordinary 28
 29 science. Normal science as a generally ‘left-brain’ activity, revolutionary science 29
 30 as opening more to the novelty and wholistic re-evaluation that is the domain 30
 31 chiefly of the ‘right-brain’. And the effort to understand all these matters as *itself* 31
 32 largely ‘right-brain’ in nature: more akin to understanding another person than 32
 33 to doing some normal science. Thus making Kuhn’s own role, the role of any 33
 34 philosopher or methodologist, more akin to the matters under exploration in Part 2 34
 35 of the book than to the matters under exploration by practicing scientists. 35

36 I emphasised in the opening sentence of the previous paragraph a personal 36
 37 dimension: Another, crucial way in which my work is intended to be therapeutic 37
 38 is that it does not aim to impose upon the reader. As stressed at the opening of the 38
 39 present work, in the Preface, while I have strong opinions, these are not the nub of the 39
 40 matter: ultimately, *the reader has to come for themselves* to a (tentative, malleable) 40
 41 decision as to how best to employ this value-laden term of praise, ‘science’, and on 41
 42 what features of its employment in the domain in which its employment is relatively 42
 43 unproblematic are worth highlighting, emphasising, holding onto. 43

44 44

1 In Part 2 of the book, after being ‘thematised’ by the ‘Inter-Section’ that leads 1
 2 from Part 1 to Part 2, this ‘decision’ (of the reader’s) was put to work. Part 2 takes 2
 3 one on a journey through some of the ‘human sciences’, and especially through 3
 4 most of those disciplines most inclined to claim that they (perhaps unlike other 4
 5 alleged human or social sciences) genuinely *are* sciences. Part 2, in other words, 5
 6 puts Wittgenstein to work among the human sciences. 6

7 2.1 introduced this project by building on my, Hutchinson’s and Sharrock’s 7
 8 (2007),¹¹ by sketching some of the failures of (some of the more intelligent 8
 9 of) Winch’s alleged critics to understand how Winch can be read¹² as offering 9
 10 a genuinely therapeutic Wittgensteinian take on the methodology of the social 10
 11 studies, and by offering an indication of some of the reasons (reasons explored 11
 12 in the remainder of the present work) why we should be at least suspicious of 12
 13 the claim to scientificity of these disciplines. One should perhaps be suspicious 13
 14 *prima facie* of any discipline too keen to call itself a science, and furthermore 14
 15 of why/how such claims frequently obscure the *independent worth* and different 15
 16 functional nature of the social studies. ‘Science’ is not the measure of all things. 16
 17 Humanity/sociality/society have their own measure(s). 17

18 The all-too-predictable irony of this, in self-reflexive terms, is that 2.1 sadly 18
 19 details exactly what Winch’s own thinking would predict: that there has been an 19
 20 insufficiently serious effort *to understand* Winch, among those who would wish 20
 21 to criticise him. That, if one wants to criticise, one has first to understand, and this 21

22 _____ 22
 23 _____ 23

24 11 The huge irony of the programmatic, science-aping nature of much ‘social 24
 25 science’, as explored in *There is no such thing as a social science*, is that in this regard 25
 26 ‘social science’ manifestly utterly fails to successfully ape (natural) science – for (real) 26
 27 sciences developed *not* through aping other sciences, but through actual empirical etc. 27
 28 study that eventually issued, through something like or prefiguring anomaly, crisis and 28
 29 revolution, in paradigms that gave birth to more unified or at least novel research traditions. 29
 30 In the very act of attempting to copy (natural) science, ‘social science’ invalidates its own 30
 31 scientific pretensions – for science did not and does not proceed by such copying. (For 31
 32 detailed exposition of this final point, see Sharrock and Read (2002). 32

33 But, similarly to the case of my co-authored *Kuhn*, the conception of Winch’s 33
 34 philosophy offered in the co-authored *There is no such thing as a social science* was not, 33
 35 perhaps, quite as thoroughly *therapeutic*, as influenced by Cavell, Diamond, Baker, etc., 34
 36 as is the conception which is both explicit and implicit in Part 2 of the present work. This 35
 37 can be partly gleaned by the contrast between its polemical, provocative title and the more 36
 38 exploratory work, leaving more to the reader, that I hope is foregrounded in the present 37
 39 work. This is I think mostly only a difference in emphasis and in style, but it is still a 38
 40 difference that makes a difference. What polemical elements there are in the present work 39
 41 are, I hope, hedged and nuanced by the repeated invitation to the reader to decide for 40
 42 themselves where they end up in relation to the questions that this book raises. 40

41 12 Again, one might doubt whether this is the best available reading of Winch. I think 41
 42 without doubt it is ‘best’ in the sense of most charitable and most useful. However, whether 42
 43 it is ‘best’ in the final analysis in terms of being most exegetically accurate is a judgement I 43
 44 can only – and am quite content to – leave to the reader. 44

1 first base is all-too-rarely attained. That, in order to have a shot at understanding 1
 2 the strange, one sometimes first has to put it at a *greater* remove from one, from 2
 3 the kind of thing one is used to thinking about (say) a theory being (indeed, in this 3
 4 case (of Winch), as in his of the Azande: one has in particular to be prepared to 4
 5 consider the possibility that *what* one is trying to understand is not a theory at all. 5
 6 One has to be ready to open one's mind beyond scientism and beyond theoryism). 6
 7 In sum: *the primitive misunderstandings of Winch that one generally encounters 7*
 8 *mirror closely the very primitive misunderstandings of the Azande etc. that Winch 8*
 9 *sought explicitly to overcome!* (The truly primitive culture, we might say, is in an 9
 10 important sense at least just as much that of Frazer, Evans-Pritchard, that of social 10
 11 science, *and* that of Winch's critics, as that of the Azande...) This naturally put a 11
 12 question-mark over the frequent moves in sociology etc. to figure Winch in just 12
 13 such a – primitive – way. 13

14 2.2 and 2.3 plunged one into a discipline – psychiatry – that frequently 14
 15 trumpets its own allegedly scientific status, but that, in order to truly function, 15
 16 must (I argue) come genuinely to be open to and to understand (to the extent that 16
 17 such is possible) the phenomenology of the phenomena that are its subject-matter: 17
 18 the lived reality and (sometimes) self-perpetuating course of psychopathologies. 18
 19 Self-perpetuating, in that the *phenomenology* thereof is a crucial part of why 19
 20 they are difficult to escape or to emerge from. My argument in both Sections is 20
 21 that Wittgensteinian thinking has something substantive to offer in this regard: 21
 22 Wittgenstein's therapeutic diagnosis of solipsism and of other philosophical 22
 23 maladies can offer one vital clues to the phenomenology and thus to the aetiology 23
 24 and course of some psychopathologies. The terrible danger of the quest to 24
 25 make psychiatry 'scientific', whether this be *via* biological reductionism, or *via* 25
 26 cognitive-scientific modelling of 'abnormal cognition', is that it obscures this kind 26
 27 of possibility, and also obscures the relevance then of humanistic understanding to 27
 28 the essence of the subject. (Thus the real and consequential force of the question: 28
 29 Ought we to figure psychiatry as a science?) 29

30 The radical human possibility that I am aiming at in these sections is: the 30
 31 possibility that sometimes in human life, practice and phenomenology there is 31
 32 nothing but the sound, the jingle, of sense, with nothing lying behind it (cf. Read, 32
 33 2007a: 78). I mean to be describing *a conceptual possibility* (in (severe cases 33
 34 only) of schizophrenia etc.) that Louis Sass neglects – that of complete loss of 34
 35 world and of sense. It is important to be clear, in understanding these Sections, that 35
 36 calling something nonsense is (for therapeutic Wittgensteinians such as myself) an 36
 37 endlessly provisional category, unless one gets the agreement or acknowledgement 37
 38 of the speaker. In cases where such agreement is not possible / not available, then 38
 39 nonsense remains an *endlessly* provisional category/judgement, *not* an absolute 39
 40 and irrevocable verdict. 40

41 Winch's real topic, in papers such as 'Understanding a primitive society', is 41
 42 *avoiding mis-*understanding. But this is because it is reasonable for him to assume 42
 43 that there is some form of embodied first-order understanding present in the 43
 44 practices/language-games of the people in question. But just this assumption is what 44

1 I need to question and (so) aim to question, in relation to the subject-matters of 2.2. 1
 2 and 2.3. That points to the great loneliness of some psychopathological suffering 2
 3 (and our loneliness too, in relation to these sufferers). There is no analogue for this 3
 4 in the case of people who think that they carry their soul around in a stick, or other 4
 5 examples of strange practices that anthropologists have encountered – we are not 5
 6 sundered from the soul-stick-carriers as we are sundered from some sufferers of 6
 7 schizophrenia etc. . 7

8 In 2.2, furthermore, I connected this topic back to 2.1 by offering a sketch 8
 9 of/an overview of a possible *taxonomy of interpretive options* for psychological 9
 10 etc. phenomena, a sketch with a broader range of possibilities present than are 10
 11 likely to occur to one if one enters into thinking psychiatry by way of a set of 11
 12 scientific assumptions. Standard scientific modes of understanding in psychiatry 12
 13 etc. are *included* in this taxonomy, but the taxonomy is not *restricted* to them. The 13
 14 taxonomy provisionally offered here is intended itself as an ‘object of comparison’ 14
 15 (see *PI*, 132), not as a set of quasi-scientific models. It is intended to help mobilise 15
 16 possibilities for beginning reflection, on those occasions (whether in sociology, 16
 17 anthropology, politics, psychology, psychiatry, economics, management studies, 17
 18 or what-have-you¹³) when one is confronted by a situation or a phenomenon which 18
 19 defies ordinary understanding, or appears to, or at least that appears to require 19
 20 explanation or something like that. For, following Winch, I suggest that, unlike in 20
 21 the case of natural science, the social studies and the ‘human sciences’ are only 21
 22 ever *called-for* when one is confronted by such a situation. The norm in social life 22
 23 is for situations and phenomena to not be in need of any explanation *at all*, beyond 23
 24 that which we are all preternaturally capable of and routinely exercise as ‘masters’ 24
 25 of the language (and as always-already accustomed to and acculturated in and to 25
 26 the society of which we are a constitutive part). Natural science, I would suggest, 26
 27 is a project that can and should expect to apply to everything in its domain; the 27
 28 social studies and ‘*sciences humaines*’, by contrast, need only be there to fill gaps. 28

29 Thus we come to see some key reasons for suggesting that expertise in social 29
 30 understanding is in the first instance a maturational *art*,¹⁴ not a science open to 30
 31 expertise in any ‘academic’ sense of that word.¹⁵ There is and can be, I would 31

32
 33
 34 13 My hope, in other words, is that this ‘taxonomy’ may prove useful to the reader in 34
 35 looking at new cases, anywhere across the ‘*sciences humaines*’. 35

36 14 For more on this, see also the conception developed in Flyvberg’s (2001, *passim*), 36
 37 on the basis of Dreyfus’s work. 37

38 15 Thus the risk is that ‘social science’ tends to crudify and reduce to an over-simplified 38
 39 unity (or some such) sophisticated contrasts and variegated contextual understandings that 39
 40 are available to and made manifest in the practice of ordinary people in their everyday 40
 41 lives. *The practice of ordinary members of society vis a vis (e.g.) reality is already more 41*
 42 *sophisticated and reliable than theorisations of it made by philosophers and sociologists.* 42
 43 This point is on my reading central to Winch’s work, just as it is implicitly manifest 43
 44 throughout Wittgenstein’s and Harold Garfinkel’s: social science, usurping philosophy’s 43
 44 role, which in turn generally usurps and over-simplifies/crudifies the role of the competent 44

1 suggest, no *elite* of experts in (the genuine content of) social and human ‘science.’ 1
 2 In an important sense, we are *all* such experts – as, very roughly, we are all (all – or 2
 3 at any rate most – readers of this book) experts in the English language. For Winch, 3
 4 Wittgenstein, and ethnomethodology alike, by utter contrast with mainstream 4
 5 philosophy and sociology, the closest there is to an expert in the ‘field’ is *an* 5
 6 *ordinary broadly-competent social and linguistic being*.¹⁶ The social and human 6
 7 studies, I would submit, unlike the ‘social and human sciences’, not only begin 7
 8 but also end with non-academics, with (competent) members of a community. 8
 9 Social study is above all something that we do most of the time, *we humans*. As 9
 10 McGilchrist’s work makes wonderfully available: the humanities, and ‘human/ 10
 11 social *studies*’, is (are) the heir(s) to a whole different way(s) of seeing/hearing/ 11
 12 being in the world than that recommended by any science. 12

13 In 2.4, I turned to economics, another case in which theorists and practitioners 13
 14 are often extremely anxious to distinguish themselves from their ‘lesser’ cousins 14
 15 such as sociology and anthropology, and to undergird their pretensions toward 15
 16 being regarded as truly scientific. My topic here was Milton Friedman’s vastly- 16
 17 influential founding methodological statement, ‘*The methodology of positive* 17
 18 *economics*’, still a mini-bible of many economists and economics-students today. 18
 19 I offered a close critical reading of the crucial early part of that essay, drawing out 19
 20 in the process various ways in which Friedmanian positivism and instrumentalism, 20
 21 influenced by an image of the alleged nature of real science, sets economics on 21
 22 a disastrous pseudo-scientific footing. In the negative of Friedman’s essay (and 22
 23 under the more positive influence of the likes of Wittgenstein, Keynes, Winch, 23
 24 Hacking, Mirowski, and Harold Garfinkel) one can start to see once more the 24
 25 kinds of features of human and social phenomena – hermeneutic in some cases, 25
 26 involving ‘feedback-loops’ of self-consciousness in some cases, involving 26
 27 normative commitments in many cases, involving lived capacities for correction 27
 28 and explication and accounting (involving, that is, ordinary routine social and 28
 29 human competence) in virtually all cases, and so on – that tend to be obscured 29
 30 by a scientific presentation and ambition such as we find in most economics. 30
 31 From this, I drew the methodological/policy moral that moving beyond a 31
 32 scientific understanding of economics is likely to be crucial to avoid repeating 32
 33 the kind of financial-plus crisis that has gripped the world since 2007. Broadly 33
 34 Friedmanian assumptions concerning the scientisation of money and motivating 34
 35 ‘financialisation’, including the attempt to convert uncertainty and the open- 35
 36 _____ 36

37 member of a society, almost always yields something less subtle, less reliable -- less (we 37
 38 might almost say) *scientific*? -- than the deliberations and understandings of those who are 38
 39 its ‘subjects’ (objects). 39

40 16 Such ‘competence’, as Rush Rhees and Adam Phillips have emphasised, is of 40
 41 course open-ended: it shades up into *excellence(s)*. Ultimately, there sort-of is something it 41
 42 is to be an expert in human studies: namely, to be a great(-hearted) human being ... There 42
 43 is no straight analogue for this, once again, amidst natural scientists. Being a great natural 43
 44 scientist is less closely correlated with being a great human being. 44

1 endedness of human action and conceptualisation into calculable (and thus 1
 2 financialisable) risk, are partly substantively responsible for that crisis. 2
 3 Finally, 2.5 took us onto the alleged terrain of ‘Cognitive Science’, including 3
 4 along the way some related reflections upon neuroscience, upon sociology, upon 4
 5 psychology, upon psychopathology, and upon philosophy itself.¹⁷ My overarching 5
 6 aim in 2.5 was, drawing once more upon Wittgenstein, to deflect what I take to be 6
 7 the most common underlying motivation for both scientism and irrationalism in 7
 8 the ‘human sciences’ (and in philosophy): namely, the recalcitrant ‘phenomenon’ 8
 9 of consciousness. I tried here to dissolve away the attractions of the self- 9
 10 contradictory Cartesian impulse to model the mind (‘the mental realm’) on the 10
 11 spatial and bodily (‘the physical realm’) while taking it to be a totally different 11
 12 kind of ... ‘thing’,¹⁸ an impulse which I think still very much underlies projects as 12
 13 apparently-diverse for example as Tom Nagel’s and John Searle’s. My therapeutic 13
 14 aim is as far as is possible to set to rest the boggle at consciousness which causes 14
 15 so many fatally-flawed research programmes, and thus to undermine at base the 15
 16 felt *need* for a science of consciousness and (more generally) for a ‘science of 16
 17 the mind’. There is of course a perfectly good place for neuroscience, and we 17
 18 have to *look and see* what ‘Cognitive Science’ succeeds in coming up with, rather 18
 19 than pre-judging it;¹⁹ but there are good reasons to be wary of – to be guarded 19
 20 against over-hasty conclusions from – much of what it comes up with, given the 20
 21 conceptual unsteadiness of its foundations. 21

22 What 2.5 made explicit, drawing together threads from earlier Sections, is one 22
 23 aspect of why my book is likely to infuriate many academics, especially those 23
 24 attracted to investigating the methodology of the sciences (for such people are 24
 25 probably likelier than the average person to be impressed with science, and thus 25
 26 are at grave risk of being inclined to presume that their *own* approach should in 26
 27 some way be reflective of normal scientific approaches): that, in the sense of this 27
 28 word most common in English-speaking philosophy, my book has surprisingly 28
 29 little by way of *arguments* in it. Yes: the therapeutic approach is one that aims to 29
 30 reorient, to elicit new possibilities, to offer warnings: *not* to produce supposed 30
 31 chains of reasoning that must bring all to the same, quasi-factual, conclusion. If 31
 32 I am right in thinking that the approach manifested in this book is by and large 32
 33 33

34 _____ 34
 35 17 One comes to see in fact that the divisions between the various named subjects 35
 36 subject to investigation in Part 2 of the book is to some extent artificial, in the sense that, 36
 37 while each subject *must* be investigated in its own specificity (compare our discussion in 37
 38 the Interview, below, on this topic), it is nevertheless *natural* much of the time to move 38
 39 frequently one from to another (as I do), as many of the same morals and lessons apply 39
 40 *multiply* across sociology, the ‘social studies’, psychology, economics, etc. . 39

40 18 Cf. *PI* 339. 40

41 19 And, as the reader may by now have gathered, I am in fact a big fan of some 41
 42 ‘second generation’ Cog.Sci., such as aspects of the work of Lakoff and Johnson; and 42
 43 of course of most Neuro-Science, as explicated for example by McGilchrist and by A.J. 43
 44 Jacobson. 44

1 ultimately a ‘right-brain’ approach (in McGilchrist’s sense), then this is inevitable. 1
 2 The detailed scrutiny, the theory-building, the fitting into pre-formed categories 2
 3 of the ‘left-brain’, is not the procedure of a Kuhn, or a Wittgenstein, as is crystal 3
 4 clear to one ready to read with attention the Preface and the Introduction to *SSR*, 4
 5 and the Preface to *PI*. The intention of this book has not been to produce a series 5
 6 of arguments that compel assent, but to offer to one interested in receiving it some 6
 7 aids in considering the possibilities: 7

- 8 8
- 9 • that science itself ought not to be reduced to the kinds of procedures that the 9
 - 10 left-brain is comfortable with (i.e.: extraordinary science can be something 10
 - 11 genuinely new), 11
 - 12 • that the ‘human sciences’ ought not to be reduced to being sciences at all, 12
 - 13 • and that instead there could be a different basis for intellectual human 13
 - 14 encounters with the (human) world.²⁰ 14

15 15

16 Still it will be claimed, as a last redoubt against the considerations that I have 16
 17 adduced here, that it is *I* who am being *a prioristic*. How can I say ahead of time 17
 18 that there cannot be a science of *x* (where *x* is some social or human category)? 18

19 Well, then, as I’ve asked more than once in the present work: must we consider 19
 20 the possibility that there might be a science of morals? A science of abstract 20
 21 objects? A science of things beginning with the letter ‘e’? 21

22 The question is: *who is the onus on* to show that there can be or is a science 22
 23 of *x* (where *x* is society or something else seemingly thoroughly human). I 23
 24 submit that the onus is on those whom I am questioning in Part 2 of this book to 24
 25 demonstrate an intelligible sense in which there can be a science of *x* in this case, 25
 26 just as in the above cases. It is not me but my detractors, the ‘mainstream’ who 26
 27 have the orthodoxy of academic structures on their side (e.g. There are far more 27
 28 Faculties of ‘Social Science’ than of ‘Social Studies’), who are being *a prioristic* 28
 29 and *dogmatic*: *For they insist, overtly or covertly, that there is only one legitimate* 29
 30 *method of human inquiry* or knowledge-acquisition (‘science’),²¹ while I allow 30
 31 and suggest that there may be several, or even many. They are already convinced, 31
 32 before any discussion begins, that science is the alpha and omega of epistemic 32
 33 respectability; whereas I am open-minded. They are convinced that, to be worth 33
 34 34

35 35

36 20 How would our disciplinary geography look different if we adopted my reluctance 36
 37 to think of our best social knowledge as a form of scientific knowledge? That is too large 37
 38 a question for here and now; it is one I hope to return to in future work. The final footnote 38
 39 of this Concluding Summary indicates one direction in which that difference should be 39
 40 pursued; and I’ll add that an intriguing and promising proposal, one I have *some* sympathy 40
 41 with, is made in the second half of Flyvbjerg (2001).

42 21 This is, I think, true of Chomsky (and like-minded philosophers and linguists) 41
 42 as regards the possibility of ‘knowledge of language’ and with regard to those other areas 42
 43 of inquiry to which they believe the same ‘restriction’ applies. See my essay on Chomsky 43
 44 forthcoming in my *A Way with Paradoxes, after Wittgenstein* (Lexington). 44

1 anything more than just a collection of anecdotes, social study must be social 1
 2 science; I keep looking for whatever social study or ‘human science’ actually is 2
 3 and can be. 3

4 The rhetorical move of those who insist on their reasonableness by suggesting 4
 5 that *I* am being somehow dogmatic and *a prioristic* in ‘refusing’ to allow that there 5
 6 might be a science of *x* for any value of *x* is finally turned on its head. Rather than 6
 7 allowing ‘the scientific method’ to elbow everything else aside, the dangerous 7
 8 ideology of *scientism* is what needs gently elbowing aside, if anything does. We 8
 9 should, as Gordon Baker’s Wittgenstein urges, consider *other possibilities*. 9

10 And: We should *not* impoverish, we should *not* crudify.²² We should seek out, as 10
 11 Wittgenstein put it (see once more the epigraph to this Concluding Summary) the 11
 12 ‘disregarded’, and not merely the ‘scientifically’ ‘preferred’. As Nietzsche remarks, 12
 13 in explicating what he called *The gay science* – and perhaps this will be a good 13
 14 remark with which (open-endedly, as it were) to bring to a ‘close’ the present work – 14
 15 ‘Above all, one should not wish to divest existence of its *rich ambiguity*’²³...²⁴ 15
 16 16

17 22 As Geertz has pointed out (see e.g. p.40 of his (1995)), the risk of the 17
 18 simplification (away from quiddities and specificities) that science effectuates, in the 18
 19 human domain, is always that it does *not* clarify. The concomitant risk, worse still, of 19
 20 crudification or impoverishment is of course the central risk that Wittgenstein and Winch 20
 21 and ethnomethodology are determined to highlight, and that motivates really all of Part 2 21
 22 of the present work. 22

23 23 Emphasis in the original; (1974), p.335 (Section 373). Cf. also his lovely remark 23
 24 (at p.182 of his (1968)) that ‘[a]ll the problems of politics, of social organisation, and of 24
 25 education have been falsified through and through...because one learned to despise ‘little’ 25
 26 things, which means the basic concerns of life itself.’ 26

27 24 If in the end Part 2 of the book convinces, then what next? Where else might 27
 28 Wittgenstein’s therapeutic sensibility be usefully applied? Well, in the Lecture-Transcripts 28
 29 that open this book, I speak a little about the importance of thinking about the status and 29
 30 nature of the ‘environmental sciences’, that clear and yet highly-diverse hybrid of ‘human 30
 31 sciences’ and natural science. But that topic did not enter into the main body of the book. It 31
 32 deserves a book to itself. 32

33 For the inter-discipline of ‘Environmental Science’ is hugely-important in the 33
 34 contemporary world, for reasons that need no rehearsing: anyone with a basic concern for 34
 35 life or living or the future, providing that they are possessed of a modicum of knowledge 34
 36 about the state of the world, can now understand this.. Policy-implications for it outstrip in 35
 37 import most of those generated in the present work (with the possible exception of those 36
 38 concerning economics: see 2.4, above). 37

38 However, there is a problem. For it’s often tacitly or sometimes explicitly held, 38
 39 including by impressive major figures in the field such as van der Bergh or Gowdy, that the 39
 40 successfully-claimed scientificity of this field is enough to enable it to answer all important 40
 41 questions about our environment. It is frequently deduced from this that questions as to 41
 42 what to do to preserve a liveable or tolerable or sustainable ecosystem are answerable with 42
 43 exclusive reference to Environmental Science. 43

44 Moreover, it is also often tacitly held that ‘the humanities’ can or ought to remain 43
 44 essentially intact as they are, even after taking seriously our ecosystemic placement in the 44

1 world. I will argue, following Roszak's epochal (1992), that this assumption is...no longer 1
2 sustainable, and that taking this seriously radically recasts what the humanities and the 2
3 human sciences can be (including by thrusting forward the claims of animal experience as 3
4 needing to be taken much more seriously). 4

5 My argument in the book that succeeds the present work will then be in part that terms 5
6 such as 'sustainable' (and 'ecology') are inevitably deeply-morally/-evaluatively inflected. 6
7 There cannot be any purely biological definition of sustainability; and an ecological definition 7
8 of it (or indeed a questioning of it) will always be or involve a moral claim, an ethical decision, 8
9 a substantive evaluative position, and one which will have revisionist consequences for the 9
10 humanities and the human sciences (The situation there will not be left 'as it is'...). There is 10
11 a danger in the ruling assumptions of Environmental Science (and of 'Political Science') of 11
12 a kind of technocratic prejudice. I believe that this technocratic prejudice can potentially be 12
13 extirpated through an ethical, philosophical, methodological reflection. 13

14 I will investigate (i) the very limited extent to which environmental science can 14
15 indicate courses of action without a *commitment* to particular human (though *not* of course 15
16 necessarily anthropocentric) values, and (ii) the very great extent to which it is possible 16
17 to think a broadly Wittgensteinian approach to endeavours that are fundamentally and 17
18 ineradicably value-laden (such as environmental science) *without* needing to be committed 18
19 to any troubling Idealist metaphysics. The Idealist interpretation(s) of Winch and Kuhn and 19
20 of Wittgenstein himself, as we have seen in outline already in the present work, yields to a 20
21 humanly or deflationarily naturalist interpretation. The harmlessly hermeneutical approach 21
22 to the natural world which Kuhn argued is unavoidably implicitly present in the paradigms 22
23 of natural science is implicitly present in the paradigms of environmental science. The 23
24 *key difference* is, I would argue, that questions of value (and *not* moreover only questions 24
25 of scientific values, (truth, simplicity, beauty etc., which Kuhn of course argued are 25
26 ineradicable in science – see 1.4 above)) are ineradicable in the environmental sciences, 26
27 and that this puts a limit on the extent to which they can truly be sciences, and places them 27
28 partly among the so-called 'human sciences', which are best in the end *not* best thought of, 28
29 according to the line of thought I have endeavoured to make credible in the present work, 29
30 properly as sciences. Ecology as a field is human in a way that biology as a field is not – but 30
31 what it is to be human must itself be rethought ... 31

32 If the methodological clarity that I hope may have emerged from the investigation in the 32
33 present work of what happens when Wittgensteinian therapy is set loose among the natural 33
34 and the human sciences is genuine, then it will surely be of some value in thinking ecology 34
35 (and ecological economics, and so forth), too. Thus my next book-project, a successor to 35
36 this one, will be a Wittgensteinian investigation into the foundations of and the nature of 36
37 the 'environmental sciences'. 37
38
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Rupert Read: Interviewed by Simon Summers

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9 S: Very few professional philosophers and young researchers would deny 9
10 Wittgenstein's vast influence on our subject; and perhaps his greatest acknowledged 10
11 influence in the analytic tradition, according to a fairly-well accepted 11
12 interpretation, was on the Oxford school of 'ordinary language philosophy'. 12
13 The influence of that style of philosophy has waned, though, and many would 13
14 argue that research programs developed in recent years have led to considerable 14
15 philosophical progress, in fields such as the philosophy of science, the philosophy 15
16 of the social sciences and the philosophy of language. One shared aspect of 16
17 these research programs might be said to be a return to *theorising*, and to the 17
18 search for *explanations* of phenomena, rather than to the descriptive, clarificatory 18
19 or therapeutic aims of Wittgenstein and the Oxford school. So, perhaps due to 19
20 this reorientation, in today's philosophical environment, Wittgenstein's work is 20
21 often marginalised, ignored, or even treated with open hostility. To paraphrase an 21
22 earlier formulation of your own, how do you respond to the serious charge that 22
23 Wittgenstein is now, with the perspective afforded by history, 'bordering on the 23
24 insignificant in light of the wider picture – of the progression of our subject – that 24
25 we now have?' (Hutchinson and Read, 2005, p: 432). 25
26

27 R: Well, indeed, and, as explained in that article: my work goes against the current. 27
28 McGilchrist's work, as well as Wittgenstein's, greatly helps one to understand 28
29 just *why* the current is so strong. Understanding this, in turn, can greatly help the 29
30 would-be methodologist of the sciences. 30

31 A basic point here would be to dispute the picture of philosophy itself as 31
32 progressing, in the manner of a science. (I indicate reasons for why I dispute this 32
33 at various points throughout the book, such as in 1.2, 1.3, 2.1, 2.4, 2.5 and the 33
34 'Concluding Summary'.) For Wittgenstein, it is a fundamental error – and, one 34
35 might add, a gross lapse of taste – to think that philosophy itself is or should or 35
36 could reasonably aspire to be a scientific discipline. 36

37 By the way, Ordinary Language Philosophy has itself been grossly- 37
38 misunderstood and traduced. At its worst (e.g in Flew, or in certain weak moments 38
39 in Strawson), it deserved exactly the condemnation and obscurity it has had; at 39
40 its best (e.g. in Ebersole, in Strawson at his best, in Austin at his best), it accords 40
41 beautifully with the 'New' (resolute, therapeutic, Cavellian, later-Bakerian) 41
42 reading of Wittgenstein that I and others champion. 'Ordinary language' is, for 42
43 us, not a body of law nor a policeman (but nor is it simply a sociological set of 43
44 facts about usages): it is not in that way normative, a resource, something that can 44

1 be looked to as an ‘external’ standard. Rather, it is simply: language. Everything 1
 2 that is not the nothing that a failure to mean or to make sense is. It is simply us 2
 3 (competent speakers performing, as we all do every day) meaning what we say. 3
 4 ‘Ordinary language’ offers only a call to reason, or a claim of sense: A call to us to 4
 5 return to ourselves, to be honest, to ask ourselves whether we are really on balance 5
 6 willing and wanting to use such and such a word in such and such a way. This is 6
 7 the authority of philosophy, the only authority that it has: the authority that each 7
 8 one of us has as a user of the language. 8

9 I am thus very sceptical of the alleged progress of philosophy in recent years. 9
 10 Do you think that there are good genuine examples of such ‘progress’, Simon? If 10
 11 so, I’d be keen to hear what they are. 11

12 12
 13 S: I think a good candidate is the relative clarity which we now find in philosophy 13
 14 of language, following Grice and others, between the areas of syntax, semantics 14
 15 and pragmatics, and some of the excellent work being pursued in these fields. 15
 16 The study of syntax is now treated as an autonomous discipline, in large part due 16
 17 to Chomsky. You wanted to include a chapter on Chomsky and linguistics in the 17
 18 book. I was resistant to this, so I feel I owe you (and our readers) an explanation 18
 19 as to why! It seems to me that there is a clear difference between the *scientism* that 19
 20 the present book interrogates, and the *science of language* that is associated 20
 21 with the work of Chomsky and other linguists and semanticists working at the 21
 22 interface between syntax and semantics. Actually, it seems to me that Wittgenstein 22
 23 and Chomsky share some common ground; firstly, in their opposition to the 23
 24 construction of so-called ‘ideal languages’ to remedy the putative ‘imperfections’ 24
 25 of ordinary languages; and secondly, in their opposition to the notion that such 25
 26 formal calculi capture all that is essential to what Frege called ‘conceptual content’ 26
 27 and what might today be called ‘semantic content’ or ‘meaning’. 27

28 Chomsky has always maintained that sentences and words don’t carry their full 28
 29 ‘meanings’ with them. Arguing against ‘meaning theories’ such as those proposed 29
 30 by Dummett and Davidson, he has written that “[i]t is rather ironic that these moves 30
 31 should be presented as in the spirit of the later Wittgenstein, who constantly argued 31
 32 against the practice of constructing artificial concepts, divorced from ordinary usage, 32
 33 in defence of certain philosophical doctrines” (Chomsky, 2000: 51). This remark is 33
 34 still deeply relevant to much contemporary philosophy of language. 34

35 I would not wish to overstate the common ground, though. I agree with 35
 36 Chomsky that the scientific study of the syntactic structure of natural languages, 36
 37 operating with the assumptions and hypotheses developed within linguistic 37
 38 theory, might well contribute to understanding aspects of what might be called 38
 39 ‘meaningfulness’. I accept, of course, that this is something many Wittgensteinians 39
 40 (including you?) might wish to question, or even deny outright. 40

41 To return to the question of progress in philosophy, relating it to the particular 41
 42 case of the philosophy of language and what I have said above, this remark of 42
 43 Austin’s seems to me to be particularly to the point: 43

44 44

1 In the history of human inquiry, philosophy has the place of the initial central 1
2 sun, seminal and tumultuous: from time to time it throws off some portion of 2
3 itself to take station as a science, a planet, cool and well regulated, progressing 3
4 steadily towards a distant final state. This happened long ago with at the birth of 4
5 mathematics, and again at the birth of physics ... Is it not possible that the next 5
6 century may see the birth, through the joint labours of philosophers, grammarians, 6
7 and numerous other students of language, of a true and comprehensive *science* 7
8 *of language*? Then we shall have rid ourselves of one more part of philosophy 8
9 (there will still be plenty left) in the only way we ever can get rid of philosophy, 9
10 by kicking it upstairs. (1956/1979: 232) 10
11 11

12 I think that we are closer now than 50 years ago to the science of language which 12
13 Austin (over 50 years ago) is alluding to here. It is important to note, though, that 13
14 the explanations of psychological phenomena sought by linguists in the generative 14
15 tradition are intended to be *partial* characterisations of the human mind; they are 15
16 not theories which seek to capture *all* that is essential to meaning, or to verbal 16
17 communication. To seek such a thing would, I think, indeed be a form of scientism, 17
18 and Wittgenstein's reminders to this effect remain as powerful and relevant as ever. 18
19 19

20 R: Thanks Simon. I certainly agree that there are positive points of contact 20
21 between Wittgenstein and Chomsky, and have consistently found so when 21
22 engaged in discussion about these matters with various colleagues at UEA and 22
23 elsewhere. One of those points of agreement concerns the hubris of the quest for 23
24 a total science of communication or meaning. I am however not as 'optimistic' 24
25 as yourself and as Austin was in the final years of his too-short life about the 25
26 prospects for a 'science of language' (or: of syntax). I have already sketched why, 26
27 in my previous publications on the subject, and so I won't go over that ground 27
28 here. (Additionally, I take the savage critique of Chomsky's programme in Lakoff 28
29 and Johnson's *Metaphors we live by* and *Philosophy in the flesh* to have been very 29
30 effective.) What I will be arguing in the piece on this topic that will appear in my 30
31 forthcoming book, *A Way With Paradoxes after Wittgenstein* (Lexington, 2012), 31
32 is that the 'poverty of the stimulus' argument is equivocal – because Chomsky 32
33 never really clarifies what a *rich* stimulus would be – and that there is an effort 33
34 in Chomsky's approach to language to take up a stance 'external' to language in 34
35 order to be able to scientise it – but that such an effort is (for the kind of reasons 35
36 writ large in *The New Wittgenstein* and also I think in Travis's and Lars Hertzberg's 36
37 work emphasising how context goes 'all the way down') nonsensical and self- 37
38 defeating. 38

39 I don't in the end believe that the separation off of syntax from semantics 39
40 and pragmatics – a *sine qua non* for Chomsky's programme, for his vision of a 40
41 science of (part of / one aspect of) language – can be accomplished. Pure syntax: 41
42 there is no such thing. Without meaning and context, there isn't any language to 42
43 try to effectuate a science of. Until a context is found for 'Colourless green ideas 43
44 sleep furiously' (as has been done), it is, or rather was, no better off than 'Green 44

1 colourless furiously ideas sleep'. Sentences (*Sätze*, would-be sentences) are 1
 2 segmented with regard to meaning, use. It is a compositionalist fantasy to suppose 2
 3 that we know how to segment sentences grammatically prior to any potential use 3
 4 of them. 4

5 5
 6 S: Thanks Rupert. One difficulty here is that I don't understand your claim that 6
 7 there is 'no such thing as pure syntax', if the term 'syntax' is understood as used in 7
 8 syntactic theory. A syntax is a grammar (identified with a system of internal rules 8
 9 which generate linguistic representations) acquired by every competent speaker/ 9
 10 hearer under normal conditions of development. There is clearly such a thing, 10
 11 though the phenomenon is not well understood, although it is arguably *much* 11
 12 *better* understood than fifty years ago. Syntax in this sense is not identified with 12
 13 the properties of 'sentences' in the world, but with the system which generates 13
 14 a discrete infinity of them. To deny the existence of such a thing is to deny the 14
 15 existence of competent language users. 15

16 Linguists in the generative tradition depart from many philosophers of 16
 17 language who subscribe to the assumption that any inquiry into syntax needs to 17
 18 be informed by antecedent 'semantic' notions of meaning, understood as a set of 18
 19 relations between utterances of 'would-be sentences' and their worldly 'referents' 19
 20 or 'meanings'. Rejecting that assumption is part of the idea behind what is often 20
 21 labelled the 'autonomy of syntax' in linguistic theory; with this methodological 21
 22 principle of autonomy in place, it is perfectly consistent to treat 'colourless green 22
 23 idea sleep furiously' as meaningless (or 'nonsensical', if you like) in the semantic 23
 24 sense, whilst being struck by the fact that as English speakers we intuitively 24
 25 recognise the sentence as *well-formed*. We can, for example, negate the sentence, 25
 26 transform it into an interrogative, emphasis or otherwise modify some aspects 26
 27 of it ('they *do* sleep furiously') and perform a range of grammatical (syntactic) 27
 28 operations on it. These options are unavailable for 'Green colourless furiously 28
 29 ideas sleep.' 29

30 These points of contention aside, let's return to your claim that 'there is no such 30
 31 thing as pure syntax'; a claim to the effect that 'there is no such thing as *x*' does 31
 32 not, on the face of it, sound very therapeutic. Can such a seemingly categorical 32
 33 assertion have philosophically therapeutic value, and if so how? 33

34 34
 35 R: First-off, nothing of course could be further from my intention than to deny 35
 36 the existence of competent language-users, in the 'ordinary' (non-Chomskian) use 36
 37 of those terms. Exactly to the contrary: my concern is only that a Chomskian 37
 38 rarefied sense of the term "competent" does no justice to our actual competence/ 38
 39 performance, which I suggest is/are inextricable, and 100% undeniable, and not in 39
 40 need of any scientific 'foundation' or theorisation. 40

41 In terms of the more interesting dispute concerning the possibility of a science 41
 42 of syntax: Note that I spoke of "'pure' syntax". I submit – I offer you the suggestion 42
 43 – that your practice and that of Chomskians generally is already enough to show 43
 44 that you yourself don't believe in any such thing ... even though you are and must 44

1 be theoretically *committed* to doing so, and explicitly avow belief accordingly. 1
2 Thus I aim not to essay a categorical assertion, but rather, therapeutically, to get 2
3 you to question whether you really on reflection want to say the things you say. 3
4 Let me explain: 4
5 ‘Green colourless furiously ideas sleep’ probably can, with enough effort, 5
6 be parsed. It could be a line in a poem with a stranger form than that of John 6
7 Hollander, ‘Coiled Alizarine’: 7
8 8
9 Curiously deep, the slumber of crimson thoughts: 9
10 While breathless, in stodgy viridian 10
11 Colorless green ideas sleep furiously. 11
12 12
13 It would perhaps have much the same meaning (or use) as the last line of this 13
14 poem, only it would be harder to parse. Why? Because its form is less familiar to 14
15 us. But in speaking of ‘form’, have I not admitted the existence of ‘pure syntax’? 15
16 No, because all that ‘form’ amounts to, in such a context, I’d suggest, *is a matter* 16
17 *of such taken-for-granted familiarity.* 17
18 When we see ‘Colourless green ideas sleep furiously’, we model it on 18
19 sentences which resemble it, with which we are already familiar (and we have 19
20 much less familiarity with sentences resembling ‘Green colourless furiously 20
21 ideas sleep’). Notice that, roughly, this necessitates us understanding-in- 21
22 practice ‘categories’ such as (very roughly) adjective, noun, verb and adverb. 22
23 But I would suggest to you that such understanding-in-practice *already* 23
24 *involves a degree of semantical understanding.* Very roughly, for example: 24
25 verbs involve a process, in a way that nouns do not. (Though even to say 25
26 this is pretty misleading, in that it implies that we could have verbs or nouns 26
27 by themselves, which, except at the limit (in ‘one-word sentences’, etc.), we 27
28 cannot. It courts what I regard as fantasies of compositionism. But let that 28
29 pass for now.) As, in their different ways, Merleau-Ponty and Lakoff-and- 29
30 Johnson argue: at the most basic levels of thinking/speaking, there is meaning, 30
31 and lived body, not just ‘pure form’. (Our most basic uses and understandings 31
32 of language (and of the world) probably spring from and are involved in our 32
33 brains and in our biological and social development with our motor experience 33
34 and our understandings of that, etc. .) 34
35 Why should we not succeed in parsing ‘Green colourless furiously ideas 35
36 sleep’ by treating “furiously” as a noun, and “ideas” as a verb, etc.: i.e. modelling 36
37 our understanding of this sentence *closely* along the lines of the successful effort 37
38 we may already have made with ‘Colourless green ideas sleep furiously’. Why 38
39 would you not want to do this? We could do this. I put it to you that the real 39
40 reason why you do not want to is that *you* want to say that ‘Green colourless 40
41 furiously ideas sleep’ is simply meaningless word salad (That is not something 41
42 that *I* want to assert; it is something *you* assert; just as *you* and not I assert that 42
43 ‘Colourless green ideas sleep furiously’ is nonsensical even though syntactically 43
44 well-formed. For me, there are not two types of nonsense: well-formed, and ill- 44

1 formed ('word salad'). There are simply: some strings for which we have not 1
 2 yet found a use). But why doesn't 'Green colourless furiously ideas sleep' mean 2
 3 anything, if it doesn't; why do you regard it as something like 'word salad'? 3
 4 Because you have assumed that the individual components of it carry meanings 4
 5 with them: that they occupy unproblematically individually identifiable lexical 5
 6 categories. They are words which play one role rather than another in sentences. 6
 7 But that itself surely means that you don't really believe that there is such a thing 7
 8 as anything that would on reflection be worth calling "pure syntax": because 8
 9 the examples by which you seek to demonstrate it already tacitly smuggle in 9
 10 semantics. Because if for example 'ideas' could be read as a verb, as (roughly) 10
 11 processual, then there would be nothing to stop 'Green colourless furiously 11
 12 ideas sleep' from being read as no worse off than 'Colourless green ideas sleep 12
 13 furiously'. You tacitly take 'ideas' as *meaning* what it in fact generally does, 13
 14 as playing that role in the language, and that, I submit is what leads you to see 14
 15 a difference between Chomsky's famous sentence (if such it is) and that that I 15
 16 have compared with it here. 16

17 (Actually, as I suggested in my answer to your earlier question, I think that 17
 18 the situation is worse than this. I think, as Travis and Hertzberg and Lakoff-and- 18
 19 Johnson suggest, that you/Chomskians tacitly read back into syntax what you are 19
 20 only entitled to through *pragmatics*. We are in danger of ignoring this possibility, 20
 21 in our discussion here, because our discussion is at times dangerously abstract, 21
 22 sometimes completely abstracting from actual cases where someone might say or 22
 23 write 'Colourless green ideas sleep furiously' or whatever.) 23

24 It is in virtue of my claim being about your practice that my claim is a therapeutic 24
 25 one. It is up to you now to respond to my suggestions, with integrity, and helping 25
 26 me to understand possibilities I may have missed: and so the dialogue goes on. I do 26
 27 not dogmatically assert that "There is and can be no such thing as pure syntax – no 27
 28 matter what one takes "pure syntax" to mean". For clearly, given enough leeway 28
 29 to re-interpret what "pure syntax" means, such a dogmatic assertion is implausible 29
 30 / false / pointless. Rather, I suggest that you are hovering in the way you use the 30
 31 term '(pure) syntax'. You need to decide whether to use it one way or another. I 31
 32 suggest that the alleged autonomy of syntax is actually in question 'even' from 32
 33 within the totality of the perspective of my interlocutors, such as yourself. 33

34 34
 35 S: Interesting; I'm not sure now who is asking the questions, you or me! In any 35
 36 case, moving on to a different (though not unrelated) topic: Your attempted 36
 37 'therapeutic diagnosis' just now raises a question concerning the overall aim of 37
 38 the book, characterised in the Preface as "intellectual liberation, satisfaction and 38
 39 clarity", by means of a therapeutic and dialogical method, as opposed to presenting 39
 40 arguments. Could you comment upon how the book allegedly achieves this aim 40
 41 without recourse to traditional argumentation? 41

42 42
 43 R: Yes. If one looks at the methodology of science, one finds elements such as 43
 44 hypothesising, theory-building, and 'argumentation'. It seems to me that none of 44

1 these things are particularly characteristic of philosophy – at least as Wittgenstein 1
 2 wants us to understand philosophy. Wittgenstein is in search of a mode of 2
 3 philosophising that has integrity, a conception of philosophy in which it is not 3
 4 reducible to science (or to maths). He asks what philosophy can then be. 4

5 Philosophical thinking is of course sometimes close in some respects to what 5
 6 goes on in science at moments of rupture, at moments involving extraordinary 6
 7 reflection and the ‘conceptualization of new possibilities’ as Kuhn describes it. 7
 8 But the fundamental ‘nature’ of philosophy – the fundament of the philosophical 8
 9 method – for Wittgenstein, as I understand him, is, roughly, ‘therapeutic’. It is 9
 10 not about trying to build theories, and to test theories by experimentation, or to 10
 11 argue for one theory and oppose others. What (therapeutic) philosophy is about 11
 12 is reflection upon the *presuppositions* that one oneself makes in any such activity. 12

13 In terms of thinking about (what we take to be) science, it would be for instance 13
 14 about reflecting upon what Kuhn calls ‘our paradigm’. This is something that 14
 15 scientists normally virtually never do, because they virtually never *need* to do so 15
 16 (they *look right through* their paradigms, they are *transparent* to them, in the kind 16
 17 of way focal to Lakoff and Johnson’s important point about how we tend to and 17
 18 generally *need* to look right through our metaphors); but this is the quintessential 18
 19 activity of philosophy, and this is necessarily ‘therapeutic’, because it involves 19
 20 making figural and even putting into question those presuppositions that one holds 20
 21 most dear, and perhaps coming to awareness of some presuppositions which one 21
 22 hadn’t even *noticed* that one held to at all. This is one of the inspirations that 22
 23 Wittgenstein takes from Freud – a concern with those aspects of one’s thinking 23
 24 and one’s presumptions that are ‘unconscious’. 24

25 So, the process is a therapeutic one in the following way: one is trying to 25
 26 help oneself, or one’s reader, to gain clarity, by subjecting to scrutiny what are 26
 27 potentially – and perhaps in some sense unconsciously – one’s most fundamental 27
 28 assumptions. This is analogous, in relevant respects, to the method of the therapist 28
 29 helping a client to bring to consciousness certain background conditions or 29
 30 assumptions which they may not even have been aware of. A crucial feature of 30
 31 this analogy is that unless the client is *willing* to acknowledge what the therapist 31
 32 is trying to draw attention to, the therapist ultimately has no good grounds for 32
 33 asserting that it is in fact there (This is what I was trying to do, admittedly without 33
 34 much prospect of short-term success (and that is usually true: philosophy, as 34
 35 Wittgenstein held, is more or less *necessarily* a slow cure...), in the earlier part of 35
 36 our exchange, concerning Chomsky etc.). 36

37 In other words, there is no hierarchical position of authority or expertise here 37
 38 – I am *not* saying, as a Wittgensteinian philosophical therapist, that ‘I know what 38
 39 your/whoever’s problems are, and I (know I) can solve them’. That would pretty 39
 40 much return us to the pointlessness of trying to insist on a definition, something 40
 41 I have insisted throughout the present work. No: It is rather an attempt to enter 41
 42 into a dialogue with central aspects of and assumptions underlying the disciplines 42
 43 which one is attempting to better understand, and to see if one can find a way of 43
 44 appreciating, interrogating and perhaps (verbally) rearranging them, in such a way 44

1 that their own practitioners will come to realise that what is being said is right. Of 1
 2 course, if the practitioners come to no such realisation, one has no good grounds 2
 3 for asserting that it *is* right. This is one of the important ways in which *clarity* 3
 4 requires *charity*, as Peter Winch, an important figure of course in Part 2 of the 4
 5 book, clearly understood. The therapy which one is trying to practice has to be a 5
 6 genuinely dialogical and collaborative enterprise. 6

7
 8 S: So, in therapeutic philosophy, as you understand and practice it, the onus is 8
 9 on the reader – or interlocutor – to attain a position of self-awareness and clarity 9
 10 regarding the impulse to raise particular philosophical questions, or to see things 10
 11 in a particular way, or to call things by particular names, and so on, by means 11
 12 of a process of self-interrogation. The aim of such a self-interrogation would 12
 13 be liberation from the view that such and such *must* be the case. Is that a fair 13
 14 characterisation? 14

15
 16 R: Yes. It's a question (in Kantian terms) of coming to a position of autonomy 16
 17 rather than heteronomy, by virtue of (in Wittgensteinian terms) no longer being 17
 18 held captive by pictures which insist that such-and-such *must* be the case. Such 18
 19 pictures may, for example, suggest that (a particular) human science must be 19
 20 modelled on the natural sciences in order to be worthwhile, or to yield interesting 20
 21 or fruitful results, to the exclusion of other possibilities. I explore some of those 21
 22 alternative possibilities in some of my previously published work, and most 22
 23 notably in Part 2 of this book. 23

24 It is implicit in what I am saying here that the view of therapy taken here is 24
 25 as a process which enables a person to help herself gain clarity, increase self- 25
 26 understanding, and achieve greater freedom. This is in important respects a 26
 27 (transformed) remainder of the epistemically-optimistic Enlightenment project, 27
 28 once some of the darkness-triumphant of that project in its actually-existing 28
 29 form has been overcome. Of course, the way in which therapy (and philosophy- 29
 30 as-therapy) can increase and deepen our knowledge is then not at all the same 30
 31 way in which scientific investigations enlarge and deepen our knowledge. As for 31
 32 instance I aim to bring out in 2.5, above: therapeutic epistemology is irreducibly 32
 33 an affective (as well as an intellectual) process. 33

34
 35 S: You have been speaking there about the second part of the book. But just how is 35
 36 your Wittgensteinian reading of Kuhn in Part 1 supposed to relate to your project 36
 37 in Part 2, the investigation into some of the putatively human sciences? 37

38
 39 R: Natural science is our paradigm, our prototype of science. What Part 1 proposes, 39
 40 building upon my previous work on Kuhn, is an account, roughly, of our *concept* 40
 41 of science, of science as we actually find in our best examples/cases, namely 41
 42 in the *natural* sciences. This involves reflecting on the role of extraordinary/ 42
 43 revolutionary science, as figure, against the crucial ground of what Kuhn calls 43
 44 normal science. This exercise is a matter of inviting the reader to 'construct' a 44

1 conception of science with which she is satisfied. In other words, the approach 1
 2 taken here is (or aims to be) once more a thoroughly *therapeutic* one. This hands 2
 3 the power over to the reader. In Part 2, the reader is invited to take that concept – or 3
 4 perhaps better that *conception* – of science which the reader will have grasped, and 4
 5 to some extent have *constructed* for herself, and to think it through in relation to 5
 6 the cases which are there presented. The cases invite reflection upon the relevant 6
 7 similarities and dissimilarities between the hard cases (for my case) of (chiefly) 7
 8 psychiatry, economics and ‘cognitive science’, on the one hand, and our paradigm 8
 9 or *model* of what science is, on the other. So, the Wittgensteinian reading of Kuhn 9
 10 in Part 1 offers an ‘object of comparison’, in relation to which the cases considered 10
 11 in Part 2 can be assessed, such that a decision can be reached regarding how they 11
 12 are – or are not – relevantly similar. 12

13 13
 14 S: The account of science you offer in Part 1 is, you have said, not intended as a 14
 15 definition, nor a set of criteria demarcating science from non-science, but rather as 15
 16 a *reminder*. Could you say what you mean here by a ‘reminder’? 16
 17 17

18 R: Thanks for this question: because we need to be very careful when considering 18
 19 how Wittgenstein uses the term “reminder”. It isn’t supposed to be a reminder *of* 19
 20 anything, or at least not a reminder of any ‘thing’. What one is ‘reminded’ of relates 20
 21 to the nature of fundamental concepts and conceptual categories, which one may 21
 22 be inclined either to lose sight of, or to find oneself standing in a confused relation 22
 23 to, in the course of one’s linguistic practices, activities and reflections in (or on) 23
 24 a given discipline, including the discipline of philosophy. But these concepts/ 24
 25 categories do not get imposed; they are always being reconstructed. They just are 25
 26 not anything that can be simply stated. I’ll say that again: What one is reminded of 26
 27 is not something that can be simply stated, like a thesis. (*This is why* I’ve stressed 27
 28 in the past that one isn’t reminded by Wittgenstein (or indeed by Plato/Socrates) 28
 29 of any *thing* at all.) It would be, in my view, quite pointless to come up with an 29
 30 ‘authoritative’ criterion of what science is, or what it is demarcated from, because 30
 31 such a criterion would only – at best – fulfil the function of *itself* being a kind 31
 32 of ‘object of comparison’. It is essential for *the reader*, and ultimately for the 32
 33 practitioner of any given discipline, to assess for themselves what their relation is 33
 34 to the matters under discussion. If I were to lay down a criterion of what constituted 34
 35 science, or scientific practice, anyone who was not already comfortable with – or 35
 36 broadly sympathetic to – such a criterion would simply reject it. If I lay down a 36
 37 criterion for science, I am attempting to police the language, and to say: ‘This 37
 38 is how you’re allowed to use the word ‘science’’. This is a completely pointless 38
 39 manoeuvre, and I think that some philosophers, Peter Hacker for example, make a 39
 40 fundamental mistake when engaging in such methodological prescription via their 40
 41 reading of the later Wittgenstein. It has been a baleful influence of ‘Wittgenstein’ 41
 42 (I use the scare-quotes advisedly, because of course it wasn’t *Wittgenstein* who 42
 43 actually thought this, but only his legend, the ghost of his ghost) to seem to 43
 44 license such word-policing. That is why my approach to applying Wittgenstein’s 44

1 philosophy aims to leave this ‘influence’ decisively behind, difficult though that 1
2 is to do. 2

3 What is *actually* needed is for people to understand and to come to terms with 3
4 the way(s) in which they themselves are happy to use, or not to use – to apply, or 4
5 not to apply – a term such as ‘science’: just as in *PI* (especially in sections 1-80) 5
6 Wittgenstein suggests that the reader has to go through such a process in relation to 6
7 the term, or concept ‘language’. What one has to do, according to Wittgenstein, is 7
8 to (get the reader to) think about / reflect on / work through / decide the conditions 8
9 under which you/he (the reader/thinker/subject) is happy to apply or withhold the 9
10 term ‘language’, thereby coming to be reminded of what language ‘is’, in relation 10
11 to the role it plays in, say, our linguistic activity and our conceptual reflection. This 11
12 same method is applied in considering the term ‘science’ in the present book – the 12
13 process of reflection which the reader is invited to participate in is *essentially* a 13
14 dialogical and therapeutic one. This is why any prescription on my part regarding 14
15 what is, or ought to be, regarded as ‘science’ would be a pointless and, worse, a 15
16 counterproductive way to proceed. 16

17 Rather, I *ask* a Chomskian or a Friedmanian or whoever: Pray explain to us 17
18 how this that you do actually does have the character of our paradigms of science, 18
19 or consider reflecting on whether it actually is sufficiently continuous therewith 19
20 (without distorting your subject-matter) to merit being so-called. There is a kinship 20
21 I think here to the situation described by Wittgenstein in *PI* 308: 21
22 22

23 How does the philosophical problem about mental processes...arise? – The first 23
24 step is the one that altogether escapes notice. We talk of processes...and leave 24
25 their nature undecided. Sometime perhaps we shall know more about them – 25
26 we think. But that is just what commits us to a particular way of looking at 26
27 the matter. For we have a definite concept of what it means to learn to know a 27
28 process better. (The decisive move in the conjuring trick has been made, and it 28
29 was the very one we thought quite innocent.)—And now the analogy which was 29
30 to make us understand our thoughts falls to pieces. 30
31 31

32 As Phil Hutchinson writes, commenting (at p.96 of his piece on ‘Thinking and 32
33 Understanding’ in Jolley (2010)) on this passage: 33
34 34

35 [T]alking of mental processes is fine, so long as you either (a) acknowledge 35
36 that you are employing the concept of ‘process’ in a new way, a way that does 36
37 not necessarily imply continuity with nor draw upon your employment of that 37
38 concept in other domains; or (b) you furnish us with a justification for your claim 38
39 that the notion of ‘process’ that you are invoking in the term ‘mental process’ *is* 39
40 continuous with previous uses of that term in other domains. 40
41 41

42 That is the kind of thing that I invite my interlocutor, my reader, to do. 42
43 43
44 44

1 S: Okay, let's consider in more detail the application of the therapeutic method 1
2 which we've been discussing, focusing on two examples that you have already 2
3 gestured at. In Part 2 of the book, you address Economics and Cognitive science, 3
4 two disciplines which approach the 'human' in very different ways. Friedman's 4
5 'positive' Economics aspires to be a science, a *behavioural* science of cause-and- 5
6 effect behavioral relationships. Cognitive science, on the other hand, concerns 6
7 itself with human cognition, mental operations and structures. We are dealing with 7
8 rich and variegated fields of enquiry here, where methodologies and assumptions 8
9 differ greatly, even *within* particular fields or disciplines. It is extremely important 9
10 that a therapeutic philosophy takes these differences into account and seeks to 10
11 understand them on their own terms, isn't it? Do *you* take those differences into 11
12 account? 12

13 13
14 R: Sure – though of course what I offer here in Part 2 of this book only scratches 14
15 some parts of those surfaces. ... For, whilst it seems to me that when one is 15
16 engaged in these kinds of investigations, the same problems and questions arise 16
17 repeatedly, one's investigations *have* to be 'retail' rather than 'wholesale', as my 17
18 old teacher Richard Rorty put it; this is what Wittgenstein meant by saying that 18
19 we needed to 'enrich our diet of examples' and avoid the philosopher's tendency 19
20 to over-generalise. One particularly powerful example of this is scientism itself, 20
21 which Wittgenstein considered to be a very influential form of such a tendency. 21
22 So yes, the cases are different and multifarious, and they have to be looked at 22
23 in their specificity. One of the things I am trying to do in Part 2 is to look at 23
24 most (though not all: we have come only in this Interview to Linguistics!) of the 24
25 allegedly '*strongest cases*' for claims to scientific status amongst the so-called 25
26 'human-sciences': cases such as Economics and 'Cognitive Science'. Each of the 26
27 disciplines I look at each sees itself as having a strong claim to the honorific term 27
28 'science'. But yes, their credentials are different; the question of why people may 28
29 want to use the term 'science' to apply in each of these cases, and how helpful or 29
30 otherwise it is to apply the term – if it is to mean what it meant in Part 1 of the 30
31 book – *has* to be examined in its specificity to particular cases. (This is one key 31
32 reason why it is possible for someone such as yourself, Simon, to agree with me 32
33 on Economics and to disagree with me on (some) Cognitive Science. 33
34 I hope that this is what I achieve in this book, though many others go much further. 34
35 As we've already discussed, it is certainly not a question of saying: 'Here's what it 35
36 would be for something to be a science – let's see if these cases fit.' Rather, we've 36
37 hopefully 'reminded' ourselves, in Part 1, of what the term 'science' can usefully 37
38 mean and why we tend to use it to describe disciplines with particular features, and 38
39 in Part 2 we look at the individual cases on offer, and see whether those features 39
40 that we ourselves have highlighted are present or not. 40

41 For example, in looking at Economics, we wonder about the extent to which 41
42 the discipline has bought into a positivistic theory of what science is – itself a 42
43 problematic conception, of course, relatively rarely actively present in, say, physics. 43
44 We also wonder about the extent to which the kind of methodology we saw Kuhn 44

1 rightly focusing on in the natural sciences can be present, straightforwardly, in 1
 2 cases where the *humanity* and the *reflexivity* of the participants in the phenomena 2
 3 are themselves a central part of the phenomenon in question. It is both of these 3
 4 worries which I raise with regard to Friedman's extremely influential attempt 4
 5 to argue that Economics is a genuinely scientific discipline. Firstly, Friedman 5
 6 imports a dubious conception of what science is – a conception which is of little 6
 7 interest to most real scientists – at the outset; secondly, the phenomena with which 7
 8 the discipline deals and the way that human beings are able to, say, step back 8
 9 and *reflect upon* alleged 'laws' of Economics make a difference to the subject 9
 10 matter of the investigation, a difference which Friedman arguably fails to take 10
 11 even remotely seriously. 11

12 12
 13 S: Playing devil's advocate for a minute: Why do you think that all this matters, 13
 14 except to academics? Why does it matter how Friedman gets his own subject 14
 15 wrong provided that the actual work he does *in* the subject works? 15

16 16
 17 R: Well, the neglect of the difference that I just highlighted may have very 17
 18 serious consequences in political economy: The tacitly positivist presumptions 18
 19 of Finance Theory are, I believe, at the root of the financial crisis which swept 19
 20 the world and almost demolished the real economy, from 2007 to the present. 20
 21 The conceptualisation of money as a commodity, and the fantasy of being able to 21
 22 turn uncertainty into (quantifiable, ultimately commodifiable) risk, are ultimately 22
 23 consequences of Friedman-style thinking about 'positive Economics'. Moreover, 23
 24 insofar as Friedman's essay influenced many *on how they ought to pursue the* 24
 25 *practice of Economics* (and of business!), this is a serious matter, and we really 25
 26 can I think attach some blame to Friedman and say that his influence has now been 26
 27 proven to be a baleful one, upon our *world*, upon the actual jobs and livelihoods 27
 28 and bank balances of real people. 28

29 This is how the method I pursue in the book applies to Friedman, and 29
 30 Friedman's 'positive Economics'; but one needs, as you said, Simon, to reflect 30
 31 upon what might be an entirely different set of questions in relation to cases such 31
 32 as psychiatry, psychology and the cognitive sciences. 32

33 As regards 'Cognitive Science', one thing I would begin by saying is that we 33
 34 need to look and see how terms like "mental representation" are actually used; 34
 35 as for instance Anne Jaap Jacobson does. This is, of course, a quintessentially 35
 36 Wittgensteinian point: we can't assume that we already know what the term 36
 37 means, and too many so-called Wittgensteinian philosophers think they know 37
 38 what a mental representation is and think they know that there is no such thing, 38
 39 or that it is nonsense. That is not the right way to proceed. There has been some 39
 40 very interesting work indeed done in recent years by Jacobson on these issues, 40
 41 suggesting that the 'true roots', if you like, of the term 'mental representation' are 41
 42 better understood via the disciplines of neurology and neuroscience rather than 42
 43 via contemporary cognitive science (with its roots in Early Modern Philosophy, 43
 44 in Descartes et al). She raises interesting connections with ancient and medieval 44

1 philosophy in this regard, suggesting that Aristotle and some of his successors may 1
 2 help us to better understand the philosophical roots of the term; this may be more 2
 3 helpful than the appropriation of the term by (both allegedly ‘Wittgensteinian’ 3
 4 philosophers on the one hand (e.g. Hacker), and) linguists/cognitive scientists (on 4
 5 the other). 5

6 In Section 2.5 of the book in particular, I criticise *certain* tendencies in the Cog. 6
 7 Sci. area or ‘paradigm’. *Some* work under the huge banner of ‘Cog.Sci.’ seems to 7
 8 me very worthwhile. As I’ve made clear, I am quite a strong admirer of George 8
 9 Lakoff’s work, though it seems to me that his best work doesn’t actually depend 9
 10 upon any controversial assumptions about the nature of mental representation. 10
 11 I’m inclined to think of much of Lakoff’s excellent – and broadly Wittgensteinian 11
 12 – work (since his breakthrough book, *Metaphors we live by*, which of course, 12
 13 interestingly, is co-authored, as much of his work is, with a philosopher, Mark 13
 14 Johnson) as a kind of either philosophical or (sometimes, especially recently) 14
 15 thoroughly *applied* linguistics, in the sense that what he is doing is analysing 15
 16 sentences, expressions, and relations between sentences and expressions. 16
 17 The notions of cognition, mental representation and so on play a somewhat 17
 18 epiphenomenal role in his discussions of the metaphorical systems that we live by, 18
 19 in relation for instance to argument, politics, and the other cases which concern 19
 20 him (and me). So, ‘cognitive science’ is a very broad label for many different 20
 21 projects. *Some* of these, such as Lakoff’s, actually fit quite unproblematically 21
 22 under a broadly Wittgensteinian heading, and don’t require much debate, whether 22
 23 methodological or ontological, about the nature of mental representation. In other 23
 24 words: I think that Lakoff at his best needn’t necessarily be thought of as really 24
 25 a ‘cognitive scientist’ *at all*, in the conventional sense of that term. I think he is 25
 26 (questionably) leaning on ‘(cognitive) science’ for *authority*, but actually his (and 26
 27 Johnson’s) central thinking about metaphor is basically a brilliant, novel form of 27
 28 deep linguistic/philosophical reflection, not requiring much at all in the way of 28
 29 theorising or hypothesising or experiment. 29

30 So yes, as you say, Simon, the term ‘Cognitive science’ covers a multitude of 30
 31 virtues and vices. 31

32 32
 33 S: You suggest that the therapeutic value of a Wittgensteinian approach lies in the 33
 34 possibility of releasing us from certain ‘pictures’, pictures which we may be tacitly 34
 35 committed to, and which, as you put it, might give rise to ‘incompatible forms 35
 36 of thinking’. Such incompatible forms of thinking might manifest themselves in, 36
 37 say, the economist’s desire to model his activity on an assumed picture of natural 37
 38 science, whilst at the same time acknowledging or manifesting deep differences 38
 39 between his subject matter and the subject matter of, say, physics. Could you 39
 40 describe rather more what ‘releasing’ someone from such a picture might amount 40
 41 to? 41

42 42
 43 R: Yes. This comes back to my earlier remarks about ‘autonomy’ as opposed to 43
 44 heteronomy and about ‘liberation’ (and by the way once again I think of Lakoff 44

1 as actually in this regard a *practitioner* of a Wittgensteinian project of liberation, 1
 2 a project both personal and cultural/social/political). One becomes aware that a 2
 3 particular picture does not exhaust all the possible ways in which one might proceed 3
 4 in addressing a given subject matter. This creates an awareness of alternative 4
 5 possibilities, as Gordon Baker emphasises in his later work. For example, one 5
 6 may start to think of the hermeneutic dimensions of a so-called ‘human’ or ‘social’ 6
 7 science. One may start to realize that there is something which is – in a certain 7
 8 natural sense of the word – *sad* about assuming that one’s only model of epistemic 8
 9 excellence is inherited from the natural sciences. 9

10 More positively, one may begin to see that a way of giving a discipline its due 10
 11 ‘respect’ may be in allowing in to diverge from, or to have an independent centre 11
 12 from, the natural sciences. As I discuss in the first Section of Part 2, one may wish to 12
 13 emphasise the respect in which our *living* of human life – not in the hermeneutical 13
 14 sense of ‘interpretive’ life, but simply our *practice(s)* of life – is something which 14
 15 always necessarily involves the possibility for reflection or interpretation, even if 15
 16 that possibility is not (need not be) actualised. Such an emphasis provides a way 16
 17 of conceiving of a kind of *subject* matter which is fundamentally different to the 17
 18 subject matter – which is always an *object* matter – of the natural sciences. 18

19 Coming to awareness of these possibilities, as alternative ‘pictures’ – or at least 19
 20 as ways of overcoming or bracketing a picture which one inherited and which one 20
 21 perhaps was not conscious of – may be productive as a way of unleashing what we 21
 22 might call the latent ‘power’ of the discipline in question, enabling it to achieve its 22
 23 own potentialities. Also, crucially, this coming to awareness may bring us back to 23
 24 noticing the extent to which this unleashing has *already been achieved* in actual 24
 25 life (and this is something which the ethnomethodologists strongly emphasise, and 25
 26 rightly so). So, for example, we no longer assume that the person to turn to, if we 26
 27 want an understanding of a social phenomenon, would necessarily be a sociologist. 27
 28 To give a famous example: if we want an understanding of suicide, then the person 28
 29 to turn to might not be a sociologist, but a coroner. Somewhat similarly; is it always 29
 30 the case that an economist is the best placed person to comment upon economic 30
 31 activity? I would say that it isn’t; it could be for instance that a businessman, a 31
 32 trade-unionist or an activist is better placed. One could construct similar cases 32
 33 across a wide range of social phenomena and activity. 33
 34 34

35 S: Is there such a thing as a ‘picture-less’ perspective? Is this the perspective which 35
 36 you adopt or aim for in the book? 36
 37 37

38 R: This is a great question, and an important point, one that I have often debated 38
 39 for instance with my colleague Angus Ross, in relation to Kuhn, and Wittgenstein. 39
 40 I certainly don’t advocate a ‘view from nowhere’; if that is what one’s idea of a 40
 41 ‘picture-less perspective’ is, then it is not my perspective at all. One of Wittgenstein’s 41
 42 fundamental ideas, in relation to philosophy and metaphysics, is that there is 42
 43 something fishy about ‘Realism’ and the various forms of ‘Anti-Realism’ which 43
 44 are reactions against it. Neither of these positions is what we actually desire/need, 44

1 but perhaps rather something between – or orthogonal to – them. If one is in the 1
 2 grip of a picture, and then one has that grip loosened, one has probably become 2
 3 aware that there are other possibilities, alternative pictures. That is often what 3
 4 made this loosening *possible*. What does one do in such a situation? Does one 4
 5 necessarily move from one picture to another? This is what Kuhn says one does, 5
 6 in the case of science; but it is rather different in the case of the kind of reflective 6
 7 activity that we are engaged in here: we are reflecting upon the *methodology* and 7
 8 *philosophy* of the natural *and* the ‘human’ sciences. Postmodernists will say that 8
 9 there is no alternative to having a theory, albeit perhaps of a very new kind. To me, 9
 10 as a Wittgensteinian, this is just another version of Anti-Realism, and as such does 10
 11 not escape the metaphysical impulse. (This is why Postmodernism is in the end 11
 12 fundamentally conservative and *un-novel*.) 12

13
 14 S: So, you are resolutely opposed to Post-Modernism, and obviously to Relativism; 14
 15 but do you for example see any salient analogies between Wittgenstein’s therapeutic 15
 16 methods and recent ‘Continental’ philosophy, including post-structuralist 16
 17 philosophical projects such as Derrida’s ‘deconstruction’? 17

18
 19 R: Again, the key point of rupture between Wittgenstein and Derrida is that Derrida 19
 20 is pessimistically insistent that there is no escape whatever from the condition 20
 21 of metaphysics. (See 2.1, above, for a little more on this. Sadly, Deconstruction 21
 22 and Post-Modernism are in the end just as ‘left-brain-dominated’, just as addicted 22
 23 to ‘theory’, as most Analytic philosophy.) Whereas, by contrast, it seems to me 23
 24 that we ought to hold out the possibility that one can, as a philosopher, reach a 24
 25 condition of not being in the grip of any *particular* picture. 25

26 But, in the final analysis, I think it is ‘as you please’ – to quote Wittgenstein 26
 27 from *PI* 16 – whether one says such a thing or not. It doesn’t really matter whether 27
 28 one says ‘we attain liberation by not being in the grip of any picture’ or ‘once 28
 29 we come to see the possibility of various pictures, that is itself is a new meta- 29
 30 picture’. I’m doubtful that the latter formulation is a helpful thing to say, and I 30
 31 am sceptical of the compulsive ‘Derridian’ desire to insist upon it; but it doesn’t 31
 32 really matter, as long as what is kept clearly in view is the perspective expressed 32
 33 in the first formulation, in the sense of being in -- and escaping from! -- the *grip* 33
 34 of, say, scientism, or a particular vision of how Economics or Psychiatry *have* to 34
 35 be, if they are be ‘sciences’. If this is called a ‘meta-picture’, still its difference 35
 36 in *kind* from the picture(s) one inhabited or was gripped by previously is vital 36
 37 (Partly, because such a ‘meta-picture’ is knowingly held, freely acknowledged.). 37
 38 Freedom from particular pictures brings with it a kind of flexibility, grounded 38
 39 in an appreciation of (say) the variety of activities going on within a particular 39
 40 discipline, and an appreciation of the reasons for saying – or not saying – that 40
 41 the discipline has such-and-such in common with a scientific paradigm. There 41
 42 will never be a completely firm answer to the question ‘Is this a science or not, 42
 43 in the relevant sense?’ This is not the kind of question for which a yes or no 43
 44 answer can be profitably provided ... but something can be learned from *asking* 44

1 the question of a discipline and being open to the possibility of finding similarities 1
2 and differences, perhaps of an unexpected nature, in the exploration that follows. 2

3 What is crucial, and here I follow the later Gordon Baker, is that in philosophy, 3
4 in methodological reflection, we don't get *gripped* by one picture, especially 4
5 unawarely. Here, Wittgenstein (and also Buddhism) are terribly useful: It is not 5
6 essential to have a 'pictureless' perspective (though it is troubling dogmatically 6
7 to insist, as Derrida does on my reading of him, that there could not possibly be 7
8 anything worth calling such a thing), but it *is* essential not to *attach* unhealthily, 8
9 like an addict or a dogmatist, to one's perspective. 9

10 For those interested in following up further this kind of critique of Derrida, I 10
11 recommend Chapter 2, section 5.4 of Hutchinson's *Shame and Philosophy*. If we 11
12 had more time, I'd love to talk now about what I think is in fact the closest point of 12
13 connection in recent 'Continental' philosophy to Wittgenstein: namely, the work 13
14 of Michel Foucault. They share the idea that work in philosophy is really work 14
15 upon oneself; they share the sense of the importance of enabling the reader to 15
16 inhabit other possibilities than those which the hegemony of prevailing thought 16
17 accustoms us to; I could go on. (Foucault and Kuhn, obviously, have important 17
18 things in common too, partly through a common interest in / inheritance from 18
19 Bachelard and other related figures in 'Continental' philosophy of science.) 19

20 20
21 S: Foucault was of course a profoundly *applied* philosopher. Could you then say a 21
22 little more about how *Wittgenstein among the sciences* develops and builds upon 22
23 your previous work in applying Wittgenstein's philosophy? 23

24 24
25 R: I see Wittgenstein as a philosopher with relevance across a vast range of human 25
26 activity, phenomena, and concepts and conceptions. I think that Wittgenstein's 26
27 potential relevance to the sciences, social studies and humanistic disciplines 27
28 has not been enough explored yet. Some people have tried, but I think that, on 28
29 the whole, these attempts have been somewhat unsuccessful. This book could 29
30 be seen as exploring the work of a master and two emissaries, the master being 30
31 Wittgenstein and the emissaries being Kuhn (in Part 1) and Winch (in Part 2) 31
32 who I interpret, as in my previous work, as strongly Wittgensteinian thinkers. For 32
33 example, in Part 1, I ask whether Kuhn can be interpreted as a 'Wittgenstein of 33
34 the sciences' in relation to the philosophy and the methodology of the natural 34
35 sciences. In Part 2, I think through a Wittgensteinian approach to methodology in 35
36 allegedly human or social sciences, in domains where it hasn't been considered 36
37 in particular depth. I try, therefore, to go *beyond* only those domains where Peter 37
38 Winch does explicitly think through and apply Wittgenstein in this way, which I 38
39 considered in previous work. 39

40 As I've said, I am not hugely bothered any more whether my reading of 40
41 these 'emissaries' is 'right' or not. Perhaps Steve Fuller is right that I don't give 41
42 myself enough credit for the (as he sees it) original philosophical position that I 42
43 am developing in Kuhn's name. Perhaps Stephen Turner is right in his analogous 43
44 thoughts about the way in which my (and Sharrock's and Hutchinson's) Winch 44

1 moves on from the actual historical Winch. Perhaps Jouni Kuukkanen and Angus 1
 2 Ross and Bojana Mladenovic are closer to getting Kuhn right in the end than 2
 3 myself and Sharrock are. I don't know. The real point is a philosophical one: 3
 4 My rendition of Wittgenstein's two 'emissaries' is either what they did say or 4
 5 roughly what they should have said ... What I have done here, building on my 5
 6 previous books, is to give as therapeutic account as it is possible to give of Kuhn 6
 7 and Winch, and of a methodology of and for the natural and 'the human sciences'. 7
 8 I have developed a 'therapeutic' perspective on these areas, and have homed 8
 9 in on specific 'problem' cases (for me) such as economics, psychiatry, etc., as 9
 10 we've discussed: it doesn't much *matter* whether the perspective is mine or theirs. 10
 11 What matters is the perspective itself. (In the end, the same goes for Wittgenstein 11
 12 himself: Either what I have offered here is a way of seeing Wittgenstein among 12
 13 the sciences, or it is a way of seeing some of what Wittgenstein should have said 13
 14 about same. (Though I guess I am more fully confident in the case of Wittgenstein 14
 15 than in the case of Kuhn and Winch that I am broadly in tune with the quintessence 15
 16 of his thought.)) 16

17 I do strongly believe that Winch and Kuhn have been misunderstood, and that 17
 18 this book in particular and my writing in general bring out an aspect of them that 18
 19 has been neglected. I strongly believe that they, like Wittgenstein himself, have 19
 20 been treated as theorists when they are not. And so I am delighted to have had the 20
 21 chance to offer a therapeutic perspective on the disciplines interrogated in this 21
 22 book, in their names; I am happy for the reader to judge whether the perspective 22
 23 in question is 'really' theirs or mine. Doubtless I 'idealise' them at times. Think 23
 24 of this as being an exercise in charity, to *counter-balance* against the decidedly 24
 25 uncharitable and simply uncomprehending readings of them which have tended 25
 26 to prevail previously. 26

27 In sum, this book is an attempt to think along the lines laid down by Wittgenstein, 27
 28 Kuhn and Winch, being as clear as possible about what it would mean to think 28
 29 about the natural sciences and the various disciplines addressed in Part 2 through 29
 30 a Wittgensteinian lens. Naturally, I believe that the results are useful, and that is 30
 31 why I believe that applying Wittgenstein where hitherto he has not been applied 31
 32 – at least, not well-applied – can be valuable. Of course, the reader will have to 32
 33 assess whether or not this is true, and whether the conception of the book has been 33
 34 fundamentally worthwhile. 34

35
 36 S: And should policy-makers and their ilk think it worthwhile? Why? Do they 36
 37 need to be bothered about realism, idealism, relativism and whether there can be a 37
 38 social science: Why should they care? 38

39
 40 R: If this book has been worthwhile, then yes, part of that worth will lie in the 40
 41 implications for policy which may and should be seen to emerge. Part of the burden 41
 42 of Part 1 of the book is to suggest for instance that a therapeutic/Wittgensteinian 42
 43 take on Kuhn will provide a better basis for science policy than the rather unpleasant 43
 44 musings of, say, Steve Fuller. Kuhn counterposes nicely the need to actually 44

1 *understand* the science in a specialised domain if one is to meaningfully engage 1
 2 with it / decide how to use it, etc., on the one hand, with the (complementary) 2
 3 irrelevance normally of scientific understanding (in such a domain) to other areas 3
 4 of science or to questions of a non-scientific nature (including questions such as: 4
 5 which technologies ought we to develop/to prohibit, etc.), on the other. Scientific 5
 6 authority is limited to the discipline – the ‘paradigm’ – in question. 6
 7 Somewhat similarly, part of the burden of Part 2 is implicitly to suggest 7
 8 that there is something profoundly dangerous and counter-productive about the 8
 9 attempt, now widespread for instance in Funding Councils, to model everything 9
 10 on (the model of) science. Science policy ought to be *science* policy, and ought to 10
 11 take seriously the differences, that Wittgenstein aimed to teach, between different 11
 12 areas of human life. I sought to show in Part 2 the ways in which even the best 12
 13 candidates for scientific status among ‘the human sciences’ show some very 13
 14 clear signs of such difference, such divergence. Let alone less strong candidates 14
 15 (sociology, anthropology, etc.). *Let alone* the humanities. 15
 16 As we have already touched upon earlier in this Interview: 16
 17 17
 18 • If Economics were reconceived less scientifically in general and less 18
 19 positivistically in particular, the world would be less vulnerable to 19
 20 Minskyan moments such as we are currently still experiencing. 20
 21 • If Psychiatry were reconceived less scientifically and more philosophically 21
 22 (if less of it were, roughly, ‘misbegotten epistemology and metaphysics’, as 22
 23 Winch might have put it), then we could have a much richer understanding 23
 24 of the actual dynamics of psychopathology and of the limits to the 24
 25 understanding thereof. 25
 26 • These would not be trivial outcomes. They give some sense I hope of the 26
 27 potential importance of the thinking that I have begun in Part 2 of the 27
 28 present work. 28
 29 29
 30 Another example, which I am starting to look at in my current work (see for 30
 31 instance my paper just out in the *Journal of Evaluation in Clinical Practice*), is 31
 32 the rhetorically-dubious, over-blown and under-investigated concept of ‘evidence’ 32
 33 at work in the ‘Evidence-Based Medicine’ movement. The kind of anti-scientistic 33
 34 approach taken to EBM already by Steven Poole (see for instance this pithy short 34
 35 posting <http://unspeak.net/evidence-based-medicine/>), and by Michael Loughlin in 35
 36 various academic works (including his (2009a and b)), could naturally be extended 36
 37 and complemented by the *kind* of approach exemplified in the present work. 37
 38 For the over-arching reason why policy-makers and the like should be 38
 39 concerned at least a little bit with apparently-abstruse questions of ‘realism’, of 39
 40 ‘relativism’, and so on, is that there is a serious danger in our contemporary culture 40
 41 that ‘science’ will come to be seen as the measure of all things. So we need to 41
 42 interrogate ‘Scientific Realism’, and get clear on where if anywhere it is plausible, 42
 43 and so on. 43
 44 44

1 You and I clearly differ on the subject of Chomskian Linguistics – that’s the 1
2 one clear area where you are not doubtful of the wisdom of attributing a quasi- 2
3 natural-scientific-status to it while I am. But I hope you can agree with me, as a 3
4 general point, that it would be very worrying for science to be tacitly taken to 4
5 be the measure of all things ... I am thinking here for instance of this remark 5
6 of Wittgenstein’s, which might be a nice quotation to finish with (*Culture and* 6
7 *Value*, p.70, emphasis added): ‘[W]hy am I so anxious to keep apart [different] 7
8 ways of using “declarative sentences”? Is it really necessary? Did people in former 8
9 times really not properly understand what they wanted to do with a sentence? 9
10 Is it pedantry? – It is simply an attempt to see that every usage gets its due. 10
11 Perhaps then *a reaction against the over-estimation of science. The use of the word* 11
12 *“science” for “everything that can be said without nonsense” already betrays this* 12
13 *over-estimation.* For this amounts in reality to dividing utterances into two classes: 13
14 good and bad; and the danger is already there. It is similar to dividing all animals, 14
15 plants and rocks into the useful and the harmful.’ 15
16 16
17 S: Thanks Rupert. Yes, despite our specific disagreement over Chomsky, and 17
18 perhaps over some related portions of cognitive science or psychology, I think we 18
19 can probably agree on that as an important general warning, in closing. 19
20 20
21 R: Thanks Simon! 21
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