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UNITY AND CONSTITUTION OF SOCIAL ENTITIES

LUDGER JANSEN

account of material constitution and discuss compositional, institutional account for the constitution of bearerless social entities and groups. I of material constitution deals well with the bank note example, it fails to counts his identity claim gets into serious trouble. While Baker's definition and interactional constitution as additional varieties of social constitution. point out five respects in which social constitution can differ from Baker's Subject Analysis and the Predicate Modification Analysis. On both acpossible analyses for Searle's description relativity claim, the Alternative under certain descriptions. On the other hand, Lynne Rudder Baker puts are "one and the same object" that is a social or non-social object only the one hand, John Searle, in his reply to Barry Smith, suggests that they Is a bank note identical with the piece of paper of which it consists? On bound together by the relation of material constitution. I suggest two forward the claim that bank note and paper are distinct entities that are

1. Two Puzzles about Synchronic Unity

guish between diachronic and synchronic unity, i.e. between unity in time question how many things (of a certain kind) there are between two points and unity at a time. Diachronic unity or unity in time corresponds to the and fallacious reasoning. For present purposes, it is important to distinto be distinguished by the philosopher in order to avoid misconceptions but also an ambiguous one that comes in different varieties that better are As it often happens, unity is not only an important term for philosophy

¹ Cf. already Aristotle, Metaphysics V 6 on the different meanings of "one"

of diachronic unity will be relevant for the discussion, too. paper, I will primarily be concerned with synchronic unity, but questions time, corresponds to the question how many things there are at one cerof time, from t to b? Synchronic unity, on the other hand, or unity at a tain point of time t – either of a certain kind or of different kinds? In this

need to know more about the people in question? Or more? And can we tell a prior how many groups there are or do we department at noon. In this situation, how many groups are there? One? situation in which four people stand together in front of the philosophy of such social entities that involve humans as their members. Consider a unity of social entities. The first puzzle concerns the unity of groups, i.e. I will start my discussion with two puzzles concerning the synchronic

of paper and a bank note? do not involve human members. Consider a philosopher — for example in Searle's hand? One, a piece of paper? One, a bank note? Or two, a piece John Searle – holding a dollar bill in his hands: How many things are there The second puzzle concerns the unity of 'simple' social entities that

"Constitution is a fundamental relation that is ubiquitous. It is the relation tinct entities. Thus there are (at least) two things in Searle's hand. thus the dollar bill and the piece of paper that constitutes it must be disdoes not constitute $x^{n,4}$ But any asymmetric relation is irreflexive, and Baker, constitution "is an asymmetric relation: If x constitutes y, then ythings in Searle's hand, held together by the relation of constitution: ward by Lynne Rudder Baker. According to Baker, there are at least two ever, is not uncontested. A less parsimonious answer has been put forthat obtains [...] between pieces of paper and dollar bills." According to object is both a piece of paper and a dollar bill." Searle's answer, howthing in his hands: "In my hand I hold an object. This one and the same John Searle's own answer to this question is that there is only one

social objects. Or we can follow Baker's constitution view of dollar bills options. Baker herself, for one, has supplemented her constitution view and say that there are two distinct objects. To be sure, there are more Scarle and embrace his view of the identity of the piece of paper and the with the claim that the dollar bill and the piece of paper, though distinct bank note, supported by a brand of description relativity with respect to Now we have to choose between two alternatives: We can follow

open a lot of questions concerning our first puzzle about the number of groups in front of the philosophy department. show that it copes well with the puzzle about the bank note but still leaves into serious difficulties. Then I will turn to Baker's constitution view and will say why. But first I will discuss Searle's view and argue that it leads ing into account her view about numerical oneness, and in section 3.3 I time being, however, I will discuss Baker's constitution view without takthings, are still numerically the same - and thus one thing only.6 For the

2. Searle's Description Relativism

2.1 Two Intuitions and a Problem

of social objects as distinct from a class of non-social objects".7 Searle social object is "at best misleading, because it suggests that there is a class natural and social object: Searle's hands. In Searle's eyes, one and the same object can be both a paper, and thus, in our imagined situation, there cannot be two things in But obviously, this implies that there is no bank note distinct from the claims that there are no social objects as distinct from non-social objects. to defend is much stronger. In fact, Searle argues that the notion of a tity of dollar bill and paper. To be sure, the proposition that Searle wants clearly in tune with some deeply rooted intuitions. Obviously, the dollar intuition and the one-pick-intution. He gives us an argument for the iden-Searle does more than just to appeal to these intuitions — the coincidenceget both the dollar bill and the paper ("In my hand I hold an object."). But bill and the paper are spatially coincident. And we need only one pick to Searle's parsimonious position that there is only one thing in his hands is

is a social object. So which is it? The answer, of course, is that it is both. per and a dollar bill. As a piece of paper it is a non-social object, as a dollar bill it In my hand I hold an object. This one and the same object is both a piece of pa-

reasoning, consisting of six premises and three intermediate conclusions: Searle's argument can be reconstructed as the following piece of aporetic

x is a piece of paper.

If something is a piece of paper, it is a non-social object.

Searle 2003, 302

Baker 2000, 27.

Baker 2000, 44.

Hence the "at least". Cf. Baker 2007, 159: "there is constitution 'all the way down'" In fact, there are many more things in his hands, because the piece of paper is itself constituted by cellulose molecules, which are, in turn, constituted by certain atoms, and so on

⁶ Cf. Baker 2007, 40-42 and 171

Searle 2003, 302

defends the notion of a social object. Searle 2003, 302. The passage in focus here is also discussed in Schmechtig 1995, who also

(C1) (P3) x is a non-social object

y is a dollar bill.

(P4) If something is a dollar bill, it is a social object

y is a social object.

(P5) It is the very same object that is the dollar bill and the piece of paper, i.e.: x = y.

(C3)The very same object is both a social and a non-social object.

natural to assume (P6) - that social and non-social objects form disjoint cial object" and "is a non-social object" related to each other? It would be Now comes the problematic bit: How exactly are the predicates "is a soclasses

Any non-social object is not a social object

Searle suggests as a solution to this problem: ence step from (C3) and (P6) that Searle wants to block. Here is what (P1) to (P5) and the three intermediary conclusions, it is exactly this infer-Searle wants to avoid this contradiction. As he accepts all of the premises But from (P6) and (C3) we can derive a flat contradiction. Of course,

cial question, what is it that these descriptions describe?9 under certain descriptions and not others, and then we are forced to ask the crusocial object. Rather, what we have to say is that something is a social object only we do not have a separate class of objects that we can identify with the notion of But to say that [something is both a social and a non-social object] is to say that

or y per se that have social or non-social character, but only x or y under a and thus the conclusions (C1) and (C2) are not properly stated. It is not xapply to that object per se, but only in so far as we describe that object in a only "under a certain description" is to say that this predicate does not certain description, i.e. as being described as a piece of paper or as a dollar different predications. This implies, however, that the premises (P1)-(P4) certain manner. The idea is, of course, that different descriptions allow for non-social descriptions. To say that some predicate applies to an object social object or not crucially depends on our way to talk about it. This social character of things. 10 According to this view, whether a thing is a Searle suggests description relativism with respect to the social or nondistinction between social or non-social things, but between social and implies that the distinction between the social and the non-social is not a

Searle 2003, 302 (direct continuation of the last quote).

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and (C2) as the description relativistic statements (D1) and (D2): bill. Thus Searle's suggestion is to rephrase the realist conclusions (C1)

(D1) x as described as a piece of paper is a non-social object.

(D2) y as described as a dollar bill is a social object

(P5)

y as described as a piece of paper is a non-social object

description relativism does not in fact solve the problem. descriptions, it seems not to be an obstacle for the identity of x and y. In the following, I will argue that this is only a superficial solution and that between the social and the non-social has been referred to the level of On the surface, the aporetic character has disappeared. As the distinction

2.2 The Alternative Subject Analysis

se is part of the grammatical subject. From this point of view there are propositions consist out of two long subject phrases in combination with two different phrases modifying the "y" in (D2) and (D3). Thus these two According to the Alternative Subject Analysis, the "as described as" phrasentence, while the Predicate Modification Analysis considers it to be part of course, everything in Searle's analysis hinges on the question how this acceptance of this status by the relevant group of people. 11 But I will leave situation S does not depend on being described as a dollar bill in S. In the contrary predicates "is a social object" and "is a non-social object" the grammatical predicate. I will discuss these two accounts in turn. the "as described as" phrase to be part of the grammatical subject of the possibilities to parse such phrases. The Alternative Subject Analysis considers phrase is to be understood. As far as I can see, there are two competing this aside in order to take under scrutiny the phrase "as described as". Of on the ascription of a certain status to certain things and the collective general, the existence of dollar bills does not depend on descriptions, but By way of criticism, the first thing to be said is that being a dollar bill in a

[y as described as a piece of paper] is a non-social object y as described as a dollar bill is a social object

ject phrases, they ascribe the two contrary predicates to different subjects, As these two propositions are propositions containing two different sub-

For a possible source of inspiration cf. Anscombe 1957 and 1979. Anscombe's use of the phrase in action theory has been criticised, inter alii, by Goldman 1971.

This is in accordance with Searle 1995.

phrases of (D2S) and (D3S) refer to two distinct objects! Following a suggestion of Kit Fine, such referring phrases containing words like "as sisting of the same base term ("y") but different gloss terms ("a dollar the Indiscernability of Identicals, e.g. in the following formulation: object" and "is a non-social object"), in combination with the Principle of ascribe to them contrary or even contradictory predicates (like "is a social bill", "a piece of paper") refer to different things is exactly that we can qua-objects. 12 And the reason why Fine insists that referring phrases condescribed as" or "in virtue of" or "qua" are sometimes said to refer to ded. But in order to avoid the contradiction we have made the subject and thus no contradiction arises. Thus the aporetic result is actually avoi-

non-intensional contexts, be attributed to x can also be attributed to y. If x = y, then x and y have the same properties and every predicate that can, in

By modus tollens, if x and y do not have the same properties, x and y are not the same thing (the Principle of the Distinctness of Discernables). Thus the Alqua-objects: y as a piece of paper and y as a dollar bill only one object, the Alternative Subject Analysis posits two things, i.e. two ternative Subject Analysis is unacceptable for Searle. For where Searle sees

2.3 The Predicate Modification Analysis

starting with "as described as" belongs not to the grammatical subject but predicate modifiers that take predicate phrases and yield new predicate to the grammatical predicate of sentences like (D2). Such phrases are Analysis. 13 According to the Predicate Modification Analysis, a phrase same subject phrase "y" but of two distinct complex predicate phrases: phrases. According to this approach, (D2) and (D3) consist both of the Thus it is likely that Searle takes refuge to the Predicate Modification

y is [as described as a dollar bill a social object]

y is [as described as a piece of paper a non-social object]

complex predicates of the form "is a (non-)F as described as G", where nent of Searle's view. (D2P) and (D3P), however, contain quite strange therefore this account is indeed more sympathetic to the identity compo-Thus we clearly have one and the same subject in both propositions, and

social and a non-social object. very problem we started with, i.e. that y seems at the same time to be a y is both a piece of paper and a non-social object. Thus, according to the as-a-dollar-bill-a-social-object, then y is both a dollar bill and a social obsiderable dispute about when exactly a phrase "x, as described as a G, is an dollar bill" and "a piece of paper", respectively. Now there may be conis an F' and "x is a G'. 14 The former wouldn't be true without the two "F" is a placeholder for "social object" and "G" is a placeholder for "a Predicate Modification Analysis and this implication, we end up with the ject. And if y is as-described-as-a-piece-of-paper-a-non-social-object, then latter being true. Thus, as "social" is not a scaling term, if y is as-described-F' is true. But in those cases, where "F" does not require a scale reference (like "big" or "good" do), "x, as described as a G, is an F" implies both "x

avoid by introducing description relativism. Thus Searle's appeal to deobject as such and thus with the very contradiction that Searle tried to cates "is a social object" and "is a non-social object" being ascribed to the sity of discernables forces him to accept that there are two objects in the scription relativism seems to provide no way out. game after all, namely, according to Fine, two qua-objects. If he chooses fication Analysis. If he chooses the Alternative Subject Analysis, the diverternative Subject Analysis of description relativism or the Predicate Modithe Predicate Modification Analysis, however, he ends up with the predi-Thus Searle faces the following dilemma: Either he embraces the Al-

2.4 Searle's Second Argument

class of social objects as opposed to non-social objects: Searle has a second argument for rejecting the idea that there is a distinct

fornia, a licensed driver, and a tax payer. So how many objects are in the room? 'social objects'. A citizen of the United States, an employee of the state of Cali-Again, when I am alone in my room, that room contains at least the following There is exactly one: me. 15

terms "thing" or "entity").16 Thus to ask how many objects are in a room "object" does not carry with it a principle of counting (nor do the general is not to ask a clear question. Thus, second, the problem Searle hints at in Several things can be said regarding this argument. First, the general term this passage is nothing that is peculiar to social objects: In the room to-

Cf. Fine 1982.

I myself think that the Predicate Modification Analysis is indeed the more appropriate approach to qua-phrases (cf. Jansen 2002, 41-43), as does Peter van Inwagen, who accusses the Alternative Subject Analysis of committing the fallacy of "adverb pasting" (van Inwagen 2000, 442 = 2001, 127-128).

Cf. Jansen 2002, 43.

¹⁴ 15 Searle 2003, 302

Cf. Lowe 1998.

different properties, one thing can at the same time have different social features, and it can have more than one social status. "cat", or "human being"). Just as one thing can at the same time have species of substances where none is a genus of the other, like "dog", als (as it would have been the case were these terms, e.g., all terms for ple and thus these descriptions do not have to make up distinct individuin fact there are quite distinct ontological categories involved in his exammisconception is that he sees all descriptions of objects on a par, whereas le, because this very person is the bearer of several social features. Searle's case, all of these descriptions apply to the same natural person, John Searbeing a licensed driver, and the social status of being a tax payer. In this status of being employed by the state of California, the social status of e.g. John Searle, can have the social status of being a US citizen, the social distinct objects, but may apply to the same object because of distinct features of this object. In a similar manner, one and the same natural person, enumeration refer to one and the same ball, which is round, red, made of near to me. How many things are there? It may be that all the terms in this leather and situated near to me. Those terms do not necessarily describe that there is a ball, a round thing, a red thing, a leather thing, and a thing of other bodily parts. There are two legs, ten fingers, and thousands of gether with Searle there are his head, his legs, and his kidneys, among a lot form one whole, many properties can inhere in one substrate. Suppose hairs. Still they all form only one human organism. Like many parts can

2.5 Identity Rejected

Searle sums up the upshot of his arguments as follows:

There is a distinction between objects made of iron and objects not made of iron. But there is not in that way a distinction between the class of social objects and the class of non-social objects, because one and the same thing can be a social object relative to one description, and a non-social object relative to another description.¹⁷

I have shown that Seatle's arguments are not conclusive. It is by no means clear that one and the same object can be a social object and a non-social object at the same time, depending on the descriptions one uses. In addition, description relativity is a highly artificial parlance, involving either unusual subject terms or unusual predicate terms. Moreover, because of the Indiscernability of Identicals, the kind of unity provided by synchronic identity should imply the same behaviour with regard to diachronic unity.

Searle's identity assumption, however, leads into trouble with different persistence conditions of the allegedly identical dollar bill and the paper. Let us call the dollar bill in Searle's hand Dolly and the piece of paper in Searle's hand Piecy. Now, according to Searle's identity assumption, Dolly is the very same thing as Piecy. But Dolly could cease to exist through an act of disvalidation, e.g. through a special disvalidation stamp. Through such an act the dollar bill Dolly would cease to exist. This would, however, change nothing about the existence of Piecy: the piece of paper would still be around.

Moreover, it could well have been that Piecy came into existence, but not Dolly. It could have happened that shortly after producing Piecy, the dollar were abolished. In this case, there would be a piece of paper, but no dollar note. Piecy would exist, but not Dolly. Thus, Piecy and Dolly are not identical. In fact, this difference with regard to their actual or contrafactual persistence (which, in turn, implies a difference with regard to their modal properties) is one of the main motivating arguments behind the constitution view.

not entail identity. other way round: Co-location, or so the constitution view will claim, does piece of paper. And while identity implies co-location, this is not true the tity with a piece of paper, but because of their being co-located with a notes are made of paper and thus co-located with some piece of paper. contain all bank notes, because – according to our assumption – all bank which we put all pieces of paper in the world, this box would in fact also sets with huge boxes. Sets "contain" their elements in a non-spatial way. Thus the bank notes would end up in the box, not because of their identhings, existing outside of space and time. Were there a huge box into Sets are unlike huge boxes, in that sets are not concrete but abstract problem here roots not in the rejection of identity but in the confusion of identity not lead into trouble with this intuition? My answer is that the of paper in the world, you also have all bank notes? Does the rejection of identical with any bank note. But isn't it the case that if you have all pieces set of all pieces of paper in the world and the set of all bank notes. As I as two totally distinct sets, as no element of the set of pieces of paper is notes and pieces of paper in general, I am forced to judge these two sets rejected identity between Dolly and Piecy in particular and between bank for the moment that all bank notes are made of paper. Now consider the could be brought forward against the rejection of identity: Let us assume Before discussing constitution, I have to deal with an objection that

3. Baker's Constitution View

3.1 Material Constitution Defined

and lump have different persistence conditions: made, valuable, ugly, Romanesque, exchanged, insured, or admired even ent properties: The statue "may be defective, substandard, well or badly aesthetic value, and so on. Moreover, the lump and the statue have differof social practices that consider some objects as pieces of art, as having only exist, as Baker puts it, "in relation to an artworld", 18 i.e. in a context statue and the lump of stuff of which it consists. The lump of stuff is the though the alloy which makes it up it is not."19 Most prominently, statue for the statue to exist, more is required than just a lump of stuff: Statues material substratum without which the statue could not exist, but in order of Identicals, and reject (P5). This is exactly what the constitution view and (C2), it would be natural to apply the Principle of the Indiscernability which is indeed very much open for criticism. When confronted with (C1) paradigm example for the relation of constitution is the relation between a piece of paper is not the unity of identity but the unity of constitution. A does. According to the constitution view that has been put forward by the logically impeccable modus ponens. Remains the identity claim in (P5), much commonsensical and the inferences to (C1) and (C2) are based on when faced with the above. However, the premises (P1)-(P4) are very The retreat to description relativism is not the only response possible Lynne Rudder Baker, the synchronic unity between the bank note and the

statue (and the lump), the lump had the property 'could survive radical deforma-'is necessarily conterminous with a statue', and the lump did not have this proption' and the statue did not have that property. And the statue had the property remained in existence and unchanged for a year, after which God annihilated the Even if God created the statue (and, of course, the lump) ex mihile, and the statue

lump of stuff and the statue as being one and the same identical object. Because of these arguments, constitution theorists do not conceive of the about the diachronic unity entail statements about the synchronic unity. lump and statue also imply different modal properties: Our deliberations stuff would still be a lump of stuff. Thus the persistence conditions of Any heavy deformation would destroy the statue, whereas the lump of

the statue is materially constituted by the lump of stuff. Baker has sugslightly modified version of her most recent definition;21 gested several formal definitions for this brand of constitution. Here is a The lump of stuff is the matter out of which the statue is made. Thus,

 ∞ materially constitutes y at t if and only if there are primary kinds

F and G such that at t. (a) x has F as its primary kind and y has G as its primary

6 x and y are spatially coincident and there is no other thing that has G as its primary kind and is spatially coincident kind.

x is in G-favorable circumstances.

with x.

(a)(c) tially coincident entity that has G as its primary kind. and is in G-favorable circumstances there is some spa-Necessarily, for everything that has F as its primary kind

(e) has G as its primary kind. Possibly, x exists but no spatially coincident entity that

 \oplus sic kind of stuff. If x is of one basic kind of stuff, then y is of the same ba-

last but not least, discuss (4) her notion of G-favourable circumstances: her notion of primary kinds, then comment on (3) the definiendum and, ker's distinction between derivative and non-derivative properties and (2) Some comments are in place here. I will, in this order, elucidate (1) Ba-

is constituted by something that is F nor that x constitutes something that is F. Other objects can be F derivatively, i.e. by way of their constitution right, say, to enter a cinema, because the person has a right to do so: Whibody with this weight, and, the other way round, the body might have the downward derivatively, if x has F because x constitutes something that has F. if x has F because there is a constituter ε of x that has F. And x has Frelations to other entities. An object x has a property F upward derivatively, given the appropriate background – \varkappa 's being F does neither imply that \varkappa tute x or that they are constituted by x. If x is F nonderivatively, then – Thus a person may have a certain weight because it is constituted by a tion relations it may have to other entities, be it that these entities constihave some properties nonderivatively, i.e. independently of any constitubetween derivative and nonderivative properties. The idea is that an object κ can (1) Part and parcel of Baker's view of constitution is the distinction

Baker 2000, 34

Fine 2003, 206 (italics deleted)

Van Inwagen 1998, 208 = 2001, 95

²¹ Baker 2000, 49. Baker 2007, 161-162. For an earlier version cf. Baker 2000, 43, 95 and 168.

constitution view.²³ persons which they constitute. Baker points out that the admission of ers of rights, but persons can "inherit" the property of having a weight both upward and downward derivation is a non-reductive feature of the from their constituting body, and bodies can "inherit" rights from the le bodies are the primary bearers of weight, persons are the primary bear-

cause it is a constituter of a dollar note.28 example, while a piece of paper belongs to exactly one primary kind essenthe kind dollar note downward derivatively and hence contingently, betially and nonderivatively (namely the kind piece of paper), it belongs to something has other primary kinds derivatively and non-essentially. For everything has exactly one primary kind nonderivatively. It is possible that we say that everything has exactly one primary kind, we mean to say that This is, however, redundant, since we can infer this from clause (e). When consitution, Baker demands explicitly that F and G are distinct kinds.²⁷ existence altogether."26 In her own versions of the definition of material (2) The primary kind of a thing x is what corresponds to the question: "What most fundamentally is $x^{2^{19}24}$ Everything has exactly one primary primary kind cannot lose the property of being a K without going out of thing cannot exist without its primary kind: "Something that has K as its kind it belongs to. Belonging to a primary kind is an essential property; a thing's primary kind is something like its infima speases, the most narrow which "goes hand in hand with its persistence conditions".25 A

cording to (MC) only primary kinds - and because of clause (b) only spatial things — can have constituters or be constituters. this in more detail in section 4, but here I can remark in passing, that acnition of constitution "in full generality".29 I will discuss the reasons for stitution". This is, because I think that Baker's definition is not yet a defition" full stop, whereas I have the more restricted definiendum "material con-(3) Baker considers her own definition as a definition of "constitu-

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embedded in social practices of selling, buying and paying, they have to be things have to be in money-favorable circumstances: They have to be son-favorable circumstances a body has to be in, in order to constitute a according to Baker, having a first person perspective belongs to the perstatue and thus belongs to the statue-favorable circumstances, just as, issued by the right authority, and so on. person. And, or so we can continue, in order for there to be money, an art world of artists, spectators and critiques is necessary for being a world, no persons without a first person perspective. Being embedded in substratum. According to Baker, there could not be statues without an art stances". This is a general term meant to cover anything that is necessary for the (material) constitution of an entity over and above the material (4) A crucial phrase in Baker's definition is "G-favorable circum-

3.2 Material Constitution Applied

Piecy would still exist, but Dolly would not. on Piecy and before issuing Dolly the dollar were abolished. In that case, exists but no spatially coincident dollar bill, e.g. if shortly after the printing co-located with a dollar bill. Last but not least, it is possible that Piecy circumstances - any piece that has such properties and origins, that is - is origins necessary for being a dollar bill (and has not, say, been printed by a forger). And necessarily, any piece of paper that is in dollar-favourable bill-favourable circumstances — that is, Piecy has all the properties and the of paper, and Dolly's primary kind is being a dollar bill. It is undisputed that Piecy and Dolly are spatially coincident. Moreover, Piecy is in dollarthat Searle holds in his hands. Then Piecy's primary kind is being a piece with the case of the dollar bill. Again, let "Piecy" refer to that piece of paper that Searle holds in his hands and let "Dolly" refer to that dollar bill But let us now put Baker's definition to work and test whether it can deal

indeed distinct entities and not, as Searle assumed, paper Piecy. And as Dolly is not identical with Piecy, Dolly and Piecy are Dolly being constituted by – and not being identical with – the piece of for constitution. Thus her definition is able to account for the dollar bill Thus Piecy and Dolly fulfil all the requirements laid down by Baker "one and the same

²³ Cf. Baker 2000, 47. Though Baker mentions these two cases by name in this passage, she mostly deals with them in combination in the remainder of her book

Baker 2000, 40; Baker 2007, 33.

²⁴ 25 26 27 28 Baker 2007, 33. Cf. Baker 2000, 39-40.

Baker 2007, 35. Cf. Baker 2000, 40.

Baker 2000, 42; Baker 2007, 161.

kind of matter. Thus, at least in some cases upward derivation seems to preserve essentialthat the laws are such that it would cease to be a dollar bill were it to consist of a different derivation: The dollar bill belongs upward derivatively to the kind piece of paper. I take it Cf. Baker 2000, 40, n. 33; Baker 2007, 34-39. Things seem to be different with upward

²⁹ Thus she describes her intention in Baker 2000, 47.

3.3 Saving Searle's Intuitions

agree. It is true to say: both a piece of paper and a dollar bill? Said in this way, I would totally Isn't it true that Searle imagines himself to hold one thing only, which is The intuitive underpinning of the identity claim in (P5) was quite strong

This piece of paper is a dollar bill

object and the other is not. of paper constitutes the dollar bill, and this is, why both occupy the same of the dollar bill: It is not identical with the piece of paper, but the piece same object", there is no contradiction in saying that the one is a social each other, if they are not, as Searle invites us to accept, "one and the space. Now, if the dollar bill and the piece of paper are not identical with cupy the same space. Rather, the body is something that constitutes the same object". Nor is a person identical with her body, though both ocwill occur. Thus, the lump of bronze and the statue are not "one and the the lump of bronze will remain a lump of bronze whatever deformation not the same object: While a heavy deformation will destroy the statue, certain lump of bronze of necessity occupy the same space, but they are wording, however, the principle is not a valid one. A bronze statue and a ing to the intuition that no two objects occupy the same space.30 In this dollar bill: They inhabit the same region in space. This is, why we are likely Still there is an intimate connection between the piece of paper and the cause they have different properties, it should not be the "is" of identity. same object. The "is" in (A) need not be the "is" of identity. Indeed, beperson, like the bronze constitutes the statue. The same applies to the case to agree that there is only one thing that Searle holds in his hand, accord-Still, it does not follow that the piece of paper and the dollar bill are the

ontological troubles into which the identity assumption itself has lead us unity at stake here, but it is not the unity of identity, but the unity of conever, Piecy is a constituter of Dolly. Thus there is a sense of synchronic intuitions underlying his identity assumption, but it does not run into the stitution. And this sense of synchronic unity can account for the Searlean before. We can thus define: On the one hand, they are non-identical things. On the other hand, how-Nevertheless, Piecy and Dolly are not totally unrelated to each other

(UC) x and y form a unit of constitution, if and only if x and y are linked through constitution relations

one substance involved. Baker, however, claims numerical oneness for different persistence conditions.32 combinations of distinct entities belonging to different primary kinds with because being seated is an accident inhering in man, and thus there is only counting substances - and he could say that there is numerical oneness composed out of a substance and accidents. Aristotle might have been totle's seated man - like the red round ball discussed above - is a unity numerically one man. Charlotte Witt has rightly pointed out that Arisexist. The seated and the man are conceptually distinct but may indeed be that seated someone ceases to be, while the man Socrates continues to man and someone seated. If seated Socrates rises from his chair, however, oneness without identity".31 One may say that a seated man is a unity of a advertise her position, Baker refers to "Aristotle's notion of numerical that Piecy and Dolly are distinct, she now argues for the position that Piecy and Dolly (and their ilk) while being distinct are numerically one. To the intuitions underlying the identity statement. While continuing to insist As I already remarked in section 1, Baker herself tries even more to meet

a piece of paper. What Baker has in mind seems to be something like this: such a thing. But this is supposedly not what Baker has in mind: Also numerically one? Sure, they are exactly one piece of paper, because only Piecy and Dolly are numerically one because they make up exactly one exactly one piece of paper – again because Poundy is not (nonderivatively) they are exactly one bank note, because only Dolly is (nonderivatively) to say "one" at this point: For relative to which sortal are Piecy and Dolly strictly adhere to the need of a counting principle, she is not at all allowed claim: "x and y are numerically one".34 If we take Baker at her word and no two things. But Baker does not rest content with this. She does indeed Piecy and Poundy (that English Pound note that I have in my pocket) are Piecy is a piece of paper in the first place, at least nonderivatively. And fied by the sortal relativity of counting: No sortal, no counting; and thus that where x and y are, there are two things." So far, Baker's move is justi-Baker goes on: "If x and y are constitutionally related, then I would deny principle of counting are extremely difficult. Baket herself avows that "the How many' question has no application apart from some sortals".33 And Questions of counting without reference to any sortal indicating a

³⁰ This principle is being defended by, e.g., Burke 1994 and critically discussed in Lowe 1995a

Baker 2007, 40.

^{32 33} Wirt 2008.

Baker 2007, 171 Baker 2007, 171

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unit of constitution. The sortal involved here thus seems to be "unit of constitution". But this is not true: "Unit of constitution" is not a sortal for Piecy and Dolly at all. For neither Piecy nor Dolly are a unit of constitution. They rather belong to the same unit of constitution. This is quite like saying that father and son are one and the same family. This does not make father and son numerically one. Nor does it make either of them a family. They just belong to the same family. Notwithstanding this, father and son still are numerically two, i.e. two human beings.

There is another reason not to follow Baker at this point: For any non-identical entities there is always a sortal with regard to which they are two, namely the set-theoretical sortal "element". Consider the set consisting of Dolly and Piecy. Were they numerically one, this set should have one element only. In this case, the names "Dolly" and "Piecy" would refer to the very same entity. But then the set {Dolly, Piecy} would be the same set as {Dolly}, which, in turn, would be the same set as {Piecy}. But sets are identical only if they contain the same elements. Baker, however, sustains the non-identity of Dolly and Piecy. Hence, the set {Dolly, Piecy} is to have two elements and not only one. This argument shows that, as far as absolute identity is at stake, non-identity implies numerical two-ness relative to the dummy sortal "set-theoretical element".

What, then, about our everyday parlance? If I put Dolly and Piecy into a previously empty box, it would be quite extravagant to say that there are two things inside. But then remember again the difference between sets and boxes: Not every set that contains Dolly does also contain Piecy, because they are not identical. But any box that contains Dolly will also include Piecy, because they are constitutionally related. And because Dolly and Piecy belong to the same unit of constitution, they are co-located and I need only one throw in order to put both Piecy and Dolly into the box. But that does not imply that this involves, strictly speaking, only one thing. It rather means that it involves only one throw. And this again does justice to the one-pick intuition.

3.4 The "Is" of Constitution

The discussion so far shows that we have to add another shade to the spectre of meanings of the word "to be": the "is" of constitution.³⁵ The "is" of constitution has different logical properties than, say, the "is" of identity: the constitution relation as defined by Baker is irreflexive, asymmetrical, and transitive. This can easily be shown. Clause (e) provides for irreflexivity: Nothing can constitute itself, because the primary kind of a thing cannot be both present and not present at some spatio-temporal region. And together with clause (d) it provides for asymmetry: If x constitutes y, y cannot constitute x, because if the necessitation expressed in (d) would work in both directions, (e) cannot possibly be true for any direction. And, finally, as all clauses of the definiens feature transitive characteristics, the definiendum is transitive, too.³⁶

Its irreflexivity and asymmetry sharply distinguish constitution from identity. We may thus be licensed to say truly both "Dolly is Piecy" and "Piecy is Dolly", but then the "is" in these two sentences cannot possibly have the same meaning. For, as we have seen, Dolly is not identical with Piecy, thus the symmetrical relation of identity cannot be meant here. Rather, the relation between Dolly and Piecy is the asymmetrical relation of constitution. Thus, when Dolly is constituted by Piecy, Piecy is not constituted by Dolly, but rather does Piecy constitute Dolly. Thus the "is" of constituted by Piecy, "Piecy is Dolly is constituted by Piecy, "Piecy is Dolly is constituted by Piecy, "Piecy is Dolly is constituted by Piecy, "Piecy is Dolly" means that Piecy constitutes Dolly.

This disambiguation of the "is" of constitution allows us to distinguish whether some property can be ascribed to a subject derivatively or nonderivatively, and if derivatively, whether it is ascribed due to upward-derivation or due to downward-derivation.³⁷ Again, we are licensed to say

³⁵ Cf. Wiggins 1980, 30; Baker 2000, 54. Baker points out, that her aim is "metaphysical, not linguistic", and that she is "not postulating an ambiguity in the predicative use of 'is a person' "(2000, 54). Nevertheless, she speaks about the "is" of constitution and makes it pretty clear that she distinguishes "two ways to have a property – nonderivatively and derivatively" (2000, 55).

36 While Baker 2000, 45 argued that her constitution relation is interested.

While Baker 2000, 45 argued that her constitution relation is intransitive, Zimmerman 2002 demonstrated that, to the contrary, it is transitive, and Baker 2007, 165 n. 14 now excepts this result. The point is the following: Let x (of primary kind F) constitute y (of primary kind G), and let y constitute z (of primary kind H). Then while it is not necessary that all circumstances that are H-favourable for y are also H-favourable for x, it is still the case that there always are *some* circumstances that are H-favourable for x. Such are, e.g., the circumstances consisting out of the conjunction of the circumstances that are H-favourable for y and the circumstances that are G-favourable for x. This is enough to guarantee the transitivity of the constitution relation.

³⁷ Cf. Baker 2000.

both "Dolly is a dollar bill" and "Dolly is a piece of paper". But we must be aware of the ambiguity of "is" here, too: Dolly is a dollar bill nonderivatively, but Dolly is a piece of paper derivatively. Dolly is a piece of paper because Dolly is constituted by something (namely Piecy) that is nonderivatively a piece of paper. Likewise with "Piecy is a piece of paper" and "Piecy is a dollar bill". Piecy is nonderivatively a piece of paper, but Piecy is not nonderivatively a dollar bill. Rather, Piecy is derivatively a dollar bill, because Piecy constitutes something that is nonderivatively a dollar bill.

We can summarize these different ways of being brought about through the relation of constitution in the following table:

Dolly's mays of being Dolly is Piecy.
Dolly is a dollar bill.
Dolly is a piece of paper.

Dolly is constituted by Piecy.

Dolly is nonderivatively a dollar bill.

Dolly is constituted by something that is nonderivatively a piece of paper.

Piecy's mays of being Piecy is Dolly.
Piecy is a piece of paper.
Piecy is a dollar bill.

Is nonderivatively a piece of paper.

Piecy constitutes Dolly.

Piecy is nonderivatively a piece of paper.

Piecy constitutes something that is nonderivatively a dollar bill.

When we apply these means of disambiguation to the reductio argument from section 2, we get the following:

- (P1*) Piecy is nonderivatively a piece of paper.
- (P2*) If something is nonderivatively a piece of paper, it is nonderivatively a non-social object.
- C1*) Piecy is nonderivatively a non-social object.
- (P3*) Dolly is nonderivatively a dollar bill.
- (P4*) If something is nonderivatively a dollar bill, it is nonderivatively a social object.
- C2*) Dolly is nonderivatively a social object.
- P6*) Whatever is nonderivatively a non-social object is not nonderivatively a social object.

With these two conclusions (C1) and (C2), together with (P6*) and the Principle of the Diversity of Discernables, the constitution theorist can infer the non-identity of Dolly and Piecy. And as Dolly and Piecy are not identical, no contradiction follows. What is true, instead, is that something (i.e. Dolly) that is a social object nonderivatively is a non-social object

derivatively, and that something (i.e. Piecy) that is nonderivatively a non-social object is a social object derivatively. But this is perfectly in tune with classical logic.

4. How Many Groups Are There?

4.1 Four Options

Having thus dealt with the bank note puzzle, I will now return to the group puzzle: If four people stand together in front of the philosophy department at noon, how many groups are there? To answer this question we need – implicitly or explicitly – an idea about the synchronic unity of a group. I will now discuss four possible answers to this "How many?" question, each relying on a specific account of what it is to form a group and thus on a specific account of group unity. I do not take this list of four to be exhaustive.

Firstly and most sparsely, the answer could be: There is only one group that consists of all the people present. This one group is the "maximal group", consisting out of all people present at a certain time at a certain place (and only of those). As there are four people hanging around in front of the philosophy department at noon, this maximal group consists of four members. Secondly and more affluently, the answer could be that there are many more groups: There is, of course, a group with four members, but there are also four groups with three members and six groups with two members. Thus there are, all in all, eleven groups in front of the philosophy department. In these two cases, "group" obviously means something like "(maximal) aggregate of the human beings present" or "(maximal) mereological sum of the human beings in question".38

Thirdly, we could respond that we cannot tell a priori how many groups there really are. For if we conceive of a group less formally as a relevant unit of social interaction, then we need to know more about the social interactions between these people before we can tell which of them form a group and how many groups there are: Are two of the four a loving couple? Do they all together form a group of close friends?

Sometimes groups are construed as sets. Cf. e.g. Rami 2005, 74 or the definition of "society" in Hawthorne 1995, 835: "A set of individuals and/or institutions in relations governed by practical interdependence, convention, and perhaps law [...]." Although there is a set of the people that are in front of the department, this set itself is not in front of the department. As sets are abstract entities, they do not occupy any place in space or time at all. Groups as sets are discussed (but not endorsed) in Uzquiano 2004.

of empirical data. of institution and has some institutional structure. Again, the actual nummeans "institutional group", something that has been established by an act ber of such groups is no matter of armchair-philosophy but requires a lot board of a journal, and a neighbourhood bridge club. Here, "group" more than one group consisting of the very same people.³⁹ The four people can - at the same time - be the faculty of a department, the advisory Fourthly, we could consider the possibility that there can even be

4.2 Beyond Material Constitution

institutional rules or an act of institution that constitute groups. constitute groups. And according to the fourth option, it is people plus the third option, it is people plus social relations or social interactions that disagree about which people have to be taken into account. According to options it is the people that constitute groups, even if the two options are somehow constituted by other entities. According to the first two As different as these four options are, they share the feature that groups

tion must go beyond material constitution: group puzzle. There are several reasons why an account of social constituwas sufficient to solve the bank note puzzle, it cannot at all cope with the constitution, which can provide only for such constituters that are parts of tuted entity. In this, it fares much better than mereological accounts of the constituted entities. 40 But while Baker's brand of material constitution Baker's terms, the "favourable circumstances") are extrinsic to the constilike banknotes. It can provide for the fact that some constituters (in We have seen that Baker's approach can deal with some social entities

rules plus institutional acts. An obvious strategy at this point is to go for people that constitute a group, or people plus interactions, or people plus mereological sums of these as one 'single' constituter. And, indeed, Baker constitution, however, may be a many-one and even a many-many affair.41 Thus, firstly, it may involve a plurality of constituters: It is a plurality of tween a single constituting entity and a single constituted entity. Social (1) Baker's definition of constitution defines a one-one relation be-

> sum constitutes this thing. many things can jointly constitute another thing insofar their mereological accepts aggregates or sums as "the ultimate constituters".42 In this way,

It might be objected that this strategy is question-begging with regard to the mereological sums themselves, which also are groups of a kind. In I will say, 'trivially' constituted and can be dealt with easier than other the next section I will argue that sums are special in so far that they are, as

addition of the uniqueness postulate to her definition is indeed an imgroup. Thus with an eye on social constitution I am not sure whether the discuss the possibility that the same people can constitute more than one tion that one and the same pattern of ink scratches constitute different constitute a letter, and there seems to be no contradiction in the assump-The ink scratches need codes like an alphabet and a language in order to are relevant for the constitution, such things seem to be totally acceptable: once – though in two different languages?45 In case some external things provement. (b) is not necessarily helpful if it comes to social ontology, and I will later letters with respect to different codes. Thus this addition to Baker's clause even that the very same scratches of ink constitute two different letters at paper constitutes two letters, each written on one of its two sides? Or constitutes two persons?44 Or why shouldn't it be possible that a piece of within the same body. But why shouldn't it be possible that one organism citly demands that there is no second thing of primary kind G present late to block off certain counterexamples involving two or more persons when an F-thing constitutes a G-thing. She added this uniqueness postuthey are of different kinds.⁴³ In the clause (b) of her definition she explisibility that there are several constituents of the same constituter, if only can constitute lots of groups at the same time. Baker does admit the poseven many constituted things of the same kind: E.g., the very same people (2) Secondly, social constitution may involve many constituted things.

later decided to replace this with her new clause (f) documented in the immaterial entities: "If y is immaterial, then x is also immaterial." Baker constituters. Earlier versions of Baker's definition contained a reference to (3) For Baker, constitution is a material affair. It involves material

4

Such cases are also discussed by Gilbert 2004 and Uzquiano 2004

Mereology is discussed in Baker 2000, 179-185 and Baker 2007, 181-198. Uzquiano 2004 suggests that a group is constituted at 1 by the set of their members at 1. But then a concrete entity (the group) would be constituted by an abstract entity (the set), which, or so it seems to me, puts things upside down.

The possibility of a plurality of constituters (as well as the possibility of a plurality of constituted things) is extensively discussed by Wilson 2005 and Wilson 2008.

Baker 2007, 181. In a note aside she considers to use plural quantificationn to solve this problem; cf. Baker 2007, 32 n. 17.

^{4 2} block a counterexample put forward by Sider 2002, 46. Cf. also Wilson 2005. lump constitutes a statue. But the plant pot does not constitute a statue." Baker wants to Cf. Baker 2007, 164: "There could be branching: The lump constitutes a plant pot, and the

This possibility is rejected in Baker 2007, 162, while it is defended by, e.g., Rovane 1998.

The letter examples are from Fine 2000.

electronic money. Thus, social constitution goes beyond the scope of many of the things constituted are non-material, too, like companies or tive intentions, individual or collective commitments, or obligations. And that are not overtly material, like interaction events, individual or collec-Baker's definition. tution often involves non-material constituters or at least such constituters terial things are made of any kind of stuff at all. In any case, social constior 'ectoplasmatic' ghosts.49 It is, however, not clear to me, whether immaare intended to block off counterexamples involving, e.g., Cartesian egos⁴⁸ version"46 of the older clause.47 Both the original and the new clause (f) definition given above, which she considers to be "a slightly generalized

not least because some social entities are non-spatial. As Robert Wilson clauses (d) and (e). Social constitution, however, can be a non-spatial issue, spatial coincidence. 50 Co-location is at the very heart of Baker's account: It features not only in clause (b) of her definition, but also in the 'modal' (4) Closely related to this is the fact, that Baker ties constitution to

ous, spatially bounded, physical agents, and so cannot be spatially coincident with entiries that have these features "51 cidence. Boards of directors, trade unions, philosophy classes, families, and the unlikely candidates for satisfying the first condition of constitution: spatial coinentities that have these features, welders in a factory are or can be agents of some kind, but they are not continu-Collective social agents "are not physically bounded entities. As such, they seem

tory, involving a moment at which they come into existence and also a and bank accounts do not have locations, nor do contracts or obligations. some social entities haven't got one. The bridge club may be sitting in my moment at which they cease to exist. Troublesome cases of this kind are They do not extend in space, but they extend in time: They have as his-In a way, they are "quasi-abstract" entities, as Barry Smith calls them:52 dollar bill is in my hand. They all have a spatial location. But companies living room, the faculty can be assembled in the seminar room, and the non-spatial entities. While some groups clearly have a spatial location, With social constitution, both constituters and things constituted may be

tor that status, like electronic money or companies.53 all those entities that have a kind of social status without having a bearer

stances. But this means that all external constituents, which are so crucial constitute.55 As far as the constituter is concerned, accidental and relafor Baker's view, are equally hidden within the G-favourable circumtional aspects can be accommodated within the G-favourable circumconstitute a group without being a part or a member of the group they collective acceptance of these, or collective intentions.54 These may (co-) relations, the look of outside observers, appropriate institutional rules or Social constitution may involve external components as diverse as social only membership to primary kinds can ground a constitution relation. of constituters and things constituted. According to Baker's definition, (5) Baker restricts her account of constitution to essential properties

might say, a social phase sortal. A theory of social constitution must also out what the G-favourable circumstances for the G in question are on a (like being a superior to someone) that do not make up primary kinds.57 age of majority), social roles (like being a husband) and social relations account for social accidents, that is those social properties (like having the to Baker, "husband" does not denote a primary kind. 56 It is rather, one roles that, as all social entities, are in need of constitution. But according concerned. "Fiancé", "husband" and "widow" (or, "divorcé") are social case-by-case basis. This is not possible as far as the constituted thing is the constituting entities are concerned, that can be dealt with by spelling Baker's general account is underinformative at this point. But as far as

of Smith's body as derivative properties: If a bridge club has a weight at all tuted by their bodies. But, or so it seems, Smith's body is no constituter of the bridge club, and neither does the bridge club inherit all the properties tute the neighbourhood bridge club, and each of them is in turn constiever, seems to have non-transitive cases: Smith, Miller and Jones constihave seen, irreflexive, asymmetric, and transitive. Social constitution, howshort, an equivalence relation), constitution as defined by Baker is, as we (6) Finally, while identity is reflexive, symmetric and transitive (or, for

Baker 2007, 164

Baker 2007, 161.

⁴⁸ Baker 2000, 43 attributes this counter-example to Anil Gupta

Cf. Zimmerman 2002, 604,

coincidence", but loosely as "near spatial coincidence" in order to account for objects with Note that Baker now wants to construe spatial coincidence no longer as "absolute spatial

⁵² Cf. Wilson 2005, 67. vague boundaries (Baker 2007, 161; italics deleted)

Smith 2008, 37.

Cf. Smith 2003a, 2003b

⁵⁵ acceptance dependence) and Baker 2007, 11-13 (on intention dependence) acceptance), Baker 2000, 24 and Wilson 2005, 51 (on external relations), Hindriks 2006 (on Cf. e.g. Sattre 1943 (on outside observers), Searle 1995 (on constitutive rules and collective

For the differences between parthood and membership cf. Ruben-Hillel 1985, ch. 2.

⁵⁷ not thereby have fewer individuals in it than our world." However, such a world would Cf. Baker 2000, 40: "[...] being a busband [...] is not a primary-kind property: A world like contain fewer or at least different accidental entities. Cf. also Baker 2007, 34-35. ours except that it lacked the institution of marriage (and hence had no husbands) would

On the categorical variety of social entities cf. Jansen 2005.

(which can be doubted), then it is not the weight of the body of a single member, i.e. not the weight of Smith's body. The bridge club, the three members and their bodies just belong to different levels of beings. On the other hand it might be to strong to posit social constitution as a non-transitive relation, for there may be some transitive cases, especially in the case of groups considered as mereological sums. It is to these cases that I turn now.

4.3 Mere Composition

Notwithstanding the merits of Baker's approach, these six points give us good reasons for second thoughts. I will proceed in two steps. First, I will deal with those cases of groups that are only superficially of a social nature, i.e. those groups that are mere aggregates, or mereological sums, of people. In these cases we are confronted with composition, which we may either oppose to constitution proper⁵⁸ or else consider as a very weak variety of constitution that we may dub "trivial constitution". Having discussed this, I will go on and consider non-trivial cases of social constitution.

How many groups are in front of the philosophy department? Consider again the first and second answer to this question: There is one maximal group of four persons in front of the department, or there are eleven groups of two or more members, respectively. Here, I said, "group" means something like "mereological sum of human beings". There is nothing deeply social about such mereological sums, with the exception that they comprise a plurality of human beings. But the ontology of sums makes no difference as to the nature of the elements or parts: The only thing about a part of a mereological sum that matters for the ontology of sums is (beside its having parts) its very being a part. Thus sums of humans behave no different than sums of plants, cars, or stones; they are all gouverned by the same logical axioms.

If there are the parts, there is also the mereological sum of these parts. There is no explanatory gap between the existence of the parts and the existence of the sum: The existence of the parts by itself gives rise to the existence of the corresponding sum, without the need to specify any external constituters or any sum-favourable circumstances. This is the triviality involved in the "constitution" of mereological sums. It is, indeed, so trivial that the question may be asked whether it is worth to call this rela-

This would be Baker's choice; cf. Baker 2007, 187 ("constitution cannot be understood as mereological composition") and 181 ("Constituted objects are not identical to any sums.")

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tion by the name of "constitution" at all. However, no whole is identical with any of its proper parts taken singly. And there is an important similarity between the parthood-relation and the relation of material constitution: Both feature in accounts how or why a more complex thing exists in virtue of the existence of other things — either the parts or the material constituter. And this seems to be a good reason to consider both as legitimate varieties of constitution.

Baker herself, however, is very keen to distinguish mereological composition from constitution, in order to delineate her own theory of constitution from mereological accounts of constitution. For my part, I do not want to advocate a mereological account of constitution as composition in tout court. I only want to consider the possibility that composition is a trivial variety of constitution; I do not want to claim that all cases of constitution are cases of composition. To the contrary, I agree with Baker that all those cases that she calls "constitution" are in fact not cases of mere composition.

4.4 Institution and Interaction

Let us now turn to the third and fourth answers suggested above. According to these options we were not able to tell a priori how many groups there are standing in front of the department. This is a reliable indicator that these options are much less formal answers that promise actually to transfer information about the social world. As I already pointed out according to the third option "group" refers to a relevant unity of social interaction, and "group" refers to institutional groups according to the fourth option. I will call the varieties of constitution involved in these transfer.

Institutional groups are, of course, themselves relevant units of social interactions. Associations are units of co-operation and joint commitments, companies are units of employment and commerce. Thus, in fact, institutional groups are a special case of groups as relevant units of social

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Cf. Baker 2007, 186, where she says that her preferred terminology is to say "that constitution is not composition; composition is a mereological relation, and constitution is not".

Another opponent of the idea of composition as constitution is David Lewis, who claims

⁽in Lewis 1991) that composition is a many-one variety of identity. The parts just are the whole. But this does not only require a revisionary logic of identity as a multigrade relation "The xr = the y", but causes also serious conflict with the indiscernability of identicals in the case of, say, the statue, if one identifies the statue with all the particles of which it is composed (van Inwagen 1998). If composition is thought of as a kind of constitution, neither of these two problems arises.

interactions. For sake of simplicity, I will first turn to the special case of institutional constitution and then consider the general case.

If we want to establish an institutional group like an association or a company, the laws of our countries tell us what we have to do: How many founding members are needed to set up a charity? With what authority do you have to register? In Germany, you need at least seven people to establish a Verein, and you register a charity or company with the Amtagericht, the local court. These are, of course, contingent facts and they differ from one legal system to another, both historically and geographically. Nevertheless, these legal facts tell us exactly what to do in order to establish an association or a company. For many institutional groups they are highly relevant for their existence.

group. While the legal process is what brings the institutional group into of instrumental value: They are mnemonics for and testimonials of the candidates remain: first the documents and records produced in the legal the legal process itself from our search for the constituters, two groups of ment withers more and more into the distant past. As we can thus exclude to its end. And the group can exist while the legal process of its establishgroup comes into being only once the process is completed and has come tional group, because the process is not coexistent with the group: The institutional group. It is this deontic structure that perdures once the proexistence, it is the deontic structure of rights and duties that constitutes ar that comes into existence through the legal process of establishing such a rights and obligations in question. Thus the only remaining candidate for this legal process. The legal documents, or so I will argue, are mostly only process, and second the rights and obligations that are established through its constituters? The legal process cannot be a constituter of an instituing into existence, i.e. its cause of becoming, what are its causes of being belong to its causes of becoming but to its causes of being.62 Now, if the and they took great pain to point out that a thing's constituters do not ciples and causes of becoming from the principles and causes of being,61 the external constituter of an institutional group is the deontic structure legal process of registering an association is this association's way of comcess is over. Now many philosophers followed Aristotle in distinguishing the prin-

With this result, let us now turn to groups as relevant units of social interactions — like a loving couple or a group of close friends. Can we broaden our previous approach in such a way as to cover these cases, too? For sure, we do not legally register our friends nor do we need a legal

actions of some kind. continue this series without leading to an explicit and formal act of obligaactions, thus forming an implicit understanding of a joint intention to en miniature, thus becoming a full-fledged obligation. But a commitment may come about through an explicit mutual promise, i.e. a social contract tion. In any case, the joint commitment comes about through social intercan also gradually build up through a series of successful co-operative tions is exactly by its members sharing a joint commitment which gives ments. One way in which a group may be a relevant unit of social interacmaybe there is something else to be found in such groups, in the storey them reasons for actions according to a group intention.64 A commitment just below the deontic network of rights and obligations: joint committions like friendship cannot live on the basis of a contract alone. But with our friends, and there are good reasons to belief that personal relado not come along with well-defined rights and obligations. Max Horkauthority to fall in love and to start courting. And, normally, such relations agreement for their friendship.63 But normally, we do not sign contracts heimer and Friedrich Pollock are said to have established a contractual

Another way a group may be a relevant unit of social interaction is to have members that are disposed to act in an appropriate, co-operative manner, for example because they individually have the capability or tendency to react in a fitting way.⁶⁵ Again, such a capability is likely to be acquired through a process of learning or training, triggered by a series of similar situations in which each group member has the opportunity to learn the fitting co-operative reaction. Here, too, social interaction is the way to acquire these capabilities.

While in all of these cases the past interaction is the cause of the group's coming into being, past interactions no longer exist and can thus not constitute the group. The entities that perdure are the commitments and the capabilities brought about through the past interactions, and these can be said to be among the group's external constituters in these cases. In a way, they are external to the group, as they are neither members nor parts of the group itself. As these groups come about through social interactions, it is not surprising that their external constituters are entities that

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 ⁶¹ Cf. Aristotle, Metaphysics V 1, 1013a 18.
 62 Cf., e.g., Thomas Aquinas, Onuestiones of

Cf., e.g., Thomas Aquinas, Quaestiones disputatae de veritate 2, 3 obj. 20: Constituters are causae esse rei ot causae essendi, not causae fieri.

 ⁶³ Cf. Gumnior/Ringguth 1973, 13/16. I am indebted to Michael Großheim for pointing out to me this telling anecdote.
 64 Joint commitment is, of course, the central concept of Margray Gilbert's theory of all the control of Margray Gilbert's theory of the control of the con

Joint commitment is, of course, the central concept of Margret Gilbert's theory of plural subjects. Cf. e.g. Gilbert 1989.
 Such cases are extensively discussed in Baltzer 1990 and Schmid 2005 in G

Such cases are extensively discussed in Baltzer 1999 and Schmid 2005. I reflect on Schmid's approach in Jansen 2007.

If they are no constituters at all, they are, a fortion, also not intrinsic constituters of the group.

come about through social interactions. As there is a huge variety of such groups, there is also a huge variety of possible external constituters. They range from rights and obligations via commitments to capabilities and tendencies to act in a certain way that are being shared by the individual members.

5. Towards Social Constitution

of material, compositional (or trivial), institutional and interactional conusual irreflexivity and asymmetry of constitution, if they are to embrace all Even to state a number of necessary conditions is not easy beyond the orous definition of social constitution, let alone of constitution in general richness and flexibility of social constitution, I refrain from stating a rigconstitution (like a loving couple and a group of friends). Due to this ways in which groups at large can be constituted: by trivial constitution shown by bearerless social entities and groups. There are at least three realm, because social constitution goes beyond material constitution, as is not apt as a general account of constitution as it is found in the social (like associations and companies), and, more generally, by interactional tution as defined by Baker can cope well with the bank note puzzle, but is embraced a constitution view instead. I demonstrated that material constiassumption and his description relativity approach to social objects and (like sets and mereological sums of humans), by institutional constitution In order to account for the bank note puzzle, I rejected Searle's identity

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