At several key points throughout his *Treatise*, Hume refers to certain “general rules” which, he claims, we are “mightily addicted to”, and which frequently make us “carry our maxims beyond those reasons, which first induc’d us to establish them” (T 3.2.9.3).1 As Michael Gill (2006, 221) observes, Hume typically italicizes the term ‘general rules’, thus seemingly referring to “a specific, well-defined piece of his technical apparatus”.2 Unfortunately, Hume never explains what he means by the term. Nevertheless, he clearly thinks that general rules influence many of our beliefs, passions, and moral judgments.3 It is therefore important to understand exactly how Hume understands them. This is my aim in this paper.4

1 References to the *Treatise* are to the Norton and Norton edition (Oxford: Clarendon Press, 2007), cited in the text as “T” followed by Book, part, section, and paragraph numbers. References to the first *Enquiry* are to the Beauchamp edition (Oxford: Clarendon Press, 2000), cited in the text as “E” followed by section and paragraph number. All emphasis in quotations is original.

2 Confusingly, Hume sometimes uses the unitalicized term ‘general rules’ to refer to things other than general rules, such as “explicit laws or conventions” (Gill 2006, 318).

3 E.g.: T 1.3.10.10–12; T 1.3.12.24; T 1.3.13.7; T 1.3.13.12; T 2.1.6.8; T 2.2.5.12; T 2.2.7.5; T 2.2.8.5; T 3.2.6.9; T 3.2.2.24; T 3.3.1.20.

4 I will focus on Hume’s *Treatise*, since he nowhere else explicitly discusses general rules.
Thomas Hearn (1970) argues that, by “general rules”, Hume means our propensity to overgeneralize, from cases where we have seen objects or events of type C being followed by objects or events of type E, to cases where we see something that partially resembles a token of C, so that we expect a token of E.\(^5\) I think Louis Loeb (2002, 105–11) is closer to the truth in understanding general rules as generalizations which result from this propensity. I also agree with Donald Ainslie (2015, 32) that they are “unreflective causal judgements”.\(^6\)

In what follows, I will argue that Hume endorses an early form of what we now call a “dual-process theory of cognition”: a theory by which cognitive processes can be broadly distinguished into a fast, automatic, non-conscious kind and a slower, more controlled, consciously available kind (Frankish 2010). On this interpretation, Hume’s general rules are causal beliefs: they are lively ideas produced by customary association with one’s impressions or memories. However, they are importantly unlike any beliefs that are produced via slow, consciously controlled processes of reasoning. My primary aim is to argue for the novel thesis that Hume understands general rules as a set of automatically produced causal beliefs which are produced so quickly that they occur independently of our other beliefs.

I will argue that general rules can only be verbally expressed via generic sentences, like “fires cause heat”. I believe that it is for this reason that Hume calls them “general rules”. Furthermore, I will argue that Hume believed – somewhat as Sarah Jane Leslie (2008) does

\(^5\) See also, e.g., Gill 2006, 221–2.

\(^6\) There are of course further interpretations. According to Martin (1993, 250), Hume understands all general rules as “higher-order” principles, such as the “general principle, ‘like causes, like effects’”, which we often apply to our first-order causal inferences (see also, e.g., Owen 2002, 212). Lyons (2001, 254) understands them as “belief-like states with the content of statistical or universal generalizations”. Hickerson (2013, 1147) broadly agrees with Lyons, but stresses that general rules are “instinctually” rather than reflectively employed.
today – that we are often psychologically disposed to form such generic generalizations instead of quantified generalizations, and that this can cause us to be prejudiced towards members of certain social groups.

1. Hume’s account of general rules

According to Hume, all mental items, or “perceptions”, are either impressions or ideas (T 1.1.1.1). All thoughts, beliefs, and memories are ideas, and all other perceptions are impressions. Impressions therefore include our sensory impressions, but also our pains, pleasures, feelings, and emotions. Hume claims that impressions fundamentally differ from ideas only in that they “strike… the mind” with more “force and liveliness” (T 1.1.1.1). He also argues that (almost) all simple ideas are copies of simple impressions, or of other simple ideas (T 1.1.1.7; T 1.1.1.11). Simple perceptions, as opposed to complex perceptions, are ones that “admit of no distinction nor separation” (T 1.1.1.2).

Hume distinguishes reasoning into two kinds. What he calls “demonstration” is that kind of reasoning which concerns “the abstract relations of our ideas”, notably mathematical reasoning (T 2.3.3.2). He is generally much more interested in “reasonings from causation, and concerning matters of fact” (T 1.3.7.3). He believes that all beliefs about “matters of fact” are the products of causal reasoning (T 1.4.2.21; E 4.4).

According to Hume, our most fundamental processes of causal reasoning are unreflective or, to use David Fate Norton’s (1982, 209) term, “reflexive”. They are automatic, associative processes, which can occur only after we have repeatedly experienced one type of

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7 Hume uses several terms, including ‘vivacity’ and ‘liveliness’, for what he here calls ‘force and liveliness’. Hume appears to use these terms interchangeably, and I will do likewise.

8 One perception is a copy of another if it is caused by that perception and if it precisely resembles that perception (T 1.1.1.7).
object following another, such that we habitually associate our ideas of the two. From that point on, any “appearance or idea of the one immediately carries us to the idea of the other” (T 1.3.8.10).

To illustrate: If we see a flame, then we will immediately believe that it is causing heat. In Hume’s view, this is fundamentally due to our having repeatedly experienced visual impressions of “that species of object we call flame” being followed by impressions of “that species of sensation we call heat” (T 1.3.6.2). Given this, Hume believes, whenever we imagine a flame, then the associated idea of heat will immediately come into our mind, via custom. If we see a flame, then we will similarly imagine an idea of heat. In this case, however, some of the liveliness from our visual impressions will also transmit to that idea, such that the idea itself will become enlivened (T 1.3.8.2). We will thus believe in the heat coming from the flame, because a (causal) belief just is, according to Hume, a “lively idea related to a present impression” or memory (T 1.3.8.1). A paradigmatic Humean causal belief is thus simply an idea of an object, but one which feels such that we believe that the object exists, will exist, or has existed.

Hume’s most detailed example of simple, unreflective causal reasoning appears in the following passage:

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9 Hume also thinks that, since we are aware of the “determination of the mind” to form lively ideas of effects whenever causes are “presented to us”, we will come to believe in a “necessary connexion” between cause and effect (T 1.3.14.29). However, since I do not think this idea plays any important role in Hume’s account of general rules, I will largely ignore it in this paper. For discussion see, e.g., Beebee (2006, 89), Millican (2009), and Stroud (1977, 85).

10 Hume often neglects to mention his thesis that beliefs can acquire liveliness from memories (Garrett 2015, 43).
A person, who stops short in his journey upon meeting a river in his way, foresees the consequences of his proceeding forward; and his knowledge of these consequences is convey’d to him by past experience, which informs him of such certain conjunctions of causes and effects. But can we think, that on this occasion he reflects on any past experience, and calls to remembrance instances, that he has seen or heard of, in order to discover the effects of water on animal bodies? No surely; this is not the method, in which he proceeds in his reasoning. The idea of sinking is so closely connected with that of water, and the idea of suffocating with that of sinking, that the mind makes the transition without the assistance of the memory. The custom operates before we have time for reflection. The objects seem so inseparable, that we interpose not a moment’s delay in passing from the one to the other. (T 1.3.8.13)

In this passage, as David Owen (2002, 169) argues, Hume’s main claim is that we often “form beliefs, based on past experience, without any conscious act of reasoning”. By saying that such beliefs occur before we have time for “reflection”, Hume appears to mean that they occur before we have time to pay any careful, conscious attention to any of the perceptions that are involved in their production. 11 I will, therefore, henceforth call any psychological process “reflective” if it involves reflection of this kind, and “unreflective” if it occurs too quickly to allow for such reflection.

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11 Ainslie (2015, chapter 4) offers an interesting comparison between Locke’s and Hume’s uses of the term ‘reflective’. As Ainslie argues, Hume does not consistently use it in the sense just discussed.
Hume appears to believe that most processes of causal reasoning are unreflective. At least, he argues that “when any impression becomes present to us, it not only transports the mind to such ideas as are related to it, but likewise communicates to them a share of its force and vivacity” (T 1.3.8.2). Therefore, as Helen Beebee (2006, 62) argues, Humean causal beliefs must include “the kind of ‘inference’ that we make almost all the time: the constant forming of expectations based on current experience”. Whenever we take a footstep, for example, we will habitually experience a lively idea of the ground supporting us. Given the sheer quantity of impressions which Hume thinks we experience every waking moment, he surely cannot believe that we reflect on the perceptions involved in every such process, or even that we are conscious of all the processes themselves. I therefore agree with Beebee (2006, 62) that Hume understands associative processes to be entirely non-conscious.

Paradigmatic causal reasoning is thus, for Hume, a fast, automatic, and seemingly non-conscious process. Furthermore, general rules are produced via just such processes. They are “judgments concerning cause and effect” which are “deriv’d from habit and experience”, such that whenever we are “accustom’d to see one object united to another, our imagination passes from the first to the second, by a natural transition, which precedes reflection, and which cannot be prevented by it” (T 1.3.13.8).12

So what, if anything, distinguishes general rules from other unreflective causal beliefs? Hume possibly thinks they are implicit beliefs. For example, he argues that, since we

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12 An anonymous reviewer suggests that Hume uses the italicized term ‘general rule’ to refer to at least one reflectively produced belief: the belief that any lively ideas produced via “feign’d resemblance and contiguity” with our impressions are “fictions” (T 1.3.9.6). I agree that the passage is unclear. However, Hume later claims that we correct the “appearances of the senses” by a similar process (T 1.3.10.12). This process is typically mistaken for “sensation”, which implies that it is unreflective (T 1.3.9.11). I therefore suggest the former passage should be read similarly.
prefer three guineas to two guineas, we will be led by *general rules* to believe that a thousand guineas are preferable to nine-hundred-and-ninety-nine guineas, simply because the two cases resemble one another (T 1.3.12.24). In this case, our *general rules* appear to play the role of a *heuristic*, along the lines of “the more money we contemplate, the greater our desire for it”. Hume thinks that we *do* desire a thousand guineas more than we desire nine-hundred-and-ninety-nine guineas.\(^{13}\) However, he believes that we cannot observe “so small a difference” in our desires by introspection. Instead, he thinks, the mind habitually “transfers” its experiences with smaller amounts of money, in which the difference in our desires is easily discernible, to cases involving larger amounts. He does not appear to think that we will *recognize* that we are reasoning in this way. Perhaps, therefore, he would classify our *general rules* in this case among those “views and sentiments” which are “so implicit and obscure, that they often escape our strictest attention, and are not only unaccountable in their causes, but even unknown in their existence” (T 1.3.15.11).

More fundamentally, *general rules* appear to be causal beliefs that are psychologically independent of any reflectively produced beliefs. Hume suggests this during his discussion of various kinds of “unphilosophical probability”: those judgments of probability which are *not* considered to be “reasonable foundations of belief and opinion” (T 1.3.13.1–7). The relevant kind is the fourth, which consists of precisely those judgments of probability that are deriv’d from *general rules*, which we rashly form to ourselves, and which are the source of what we properly call PREJUDICE. An *Irishman* cannot have wit, and a *Frenchman* cannot have solidity; for which reason, tho’ the

\(^{13}\) As Gill (2006, 223) observes, Hume thinks that *general rules* at least sometimes play useful roles in our thinking. This is a nice case in point.
conversation of the former in any instance be visibly very agreeable, and of
the latter very judicious, we have entertain’d such a prejudice against them,
that they must be dunces or fops in spite of sense and reason. (T 1.3.13.7)

If we encounter a witty Irishman, then “sense and reason” will suggest he is witty, but
general rules will suggest otherwise. Similar examples occur throughout the Treatise. We
feel esteem for a rich person because of the general rule that wealth causes happiness, even if
we know that she is too bad-tempered to enjoy her money (T 2.1.6.8). We feel sympathetic
embarrassment for foolish people because of the general rule that foolish behaviour causes
embarrassment, even when we believe that the foolish person in question is entirely
unembarrassed (T 2.2.7.5). We approve of the benevolent desires of an imprisoned person
who clearly cannot please anyone, because of the general rule that benevolence causes
pleasure (T 3.3.1.19–20).14

To explain such cases, Hume discusses a man who is suspended “from a high tower in
a cage of iron”, and who experiences a lively idea of falling, although he “knows himself to
be perfectly secure from falling” (T 1.3.13.10). Hume explains this as follows:

When an object appears, that resembles any cause in very considerable
circumstances, the imagination naturally carries us to a lively conception of
the usual effect, tho’ the object be different in the most material and most
efficacious circumstances from that cause. (T 1.3.13.12)

14 I have argued elsewhere that Hume thinks that similar general rules are involved in the production
of all moral judgments (Chamberlain 2022).
Hume thus argues that general rules can lead us to engage in poor analogical reasoning, such that we infer effects from objects that closely, but immaterially, resemble those effects’ typical causes. Yet this alone cannot explain much. As Hume makes explicit in his first Enquiry, he believes that all “reasonings concerning matter of fact are founded on a species of ANALOGY, which leads us to expect from any cause the same events, which we have observed to result from similar causes” (E 9.1). The problem for the man in the cage is that, even once he has recognized the obvious disanalogy between his situation and those in which people fall, he still possesses a lively idea of falling. Why might this be?

Hume offers only a brief answer to this question. He argues that, whenever the man in the cage thinks about falling, his “imagination runs away with its object, and excites a passion proportion’d to it” (T 1.3.13.10). This “passion” – of fear – then “returns back upon the imagination and inlivens the idea” (T 1.3.13.10). Lorne Falkenstein (1997, 39) reads this to mean that the man’s fear directly transmits “vivacity” to the idea. I think Hume means instead that the fear caused by the man’s visual impressions of the ground below him will focus his attention on just these impressions, which will then repeatedly activate lively ideas of falling. In short, his feeling of fear will motivate him to keep looking at the ground, which will cause him to experience lively ideas of falling, which will increase his fear, and so on.

According to Hume, reflective reasoning involves distinguishing those features of our “circumstances” that are “essential” – or such as to play a causal role – from those which are “superfluous” (T 1.3.13.9). For example, the circumstance of being high above the ground is superfluous whenever one is supported by strong iron bars. Nevertheless, Hume argues, whenever the

superfluous circumstances are numerous, and remarkable, and frequently conjoin’d with the essential, they have such an influence on the imagination,
that even in the absence of the latter they carry us on to the conception of
the usual effect, and give to that conception a force and vivacity, which
make it superior to the mere fictions of the fancy. (T 1.3.13.9)

Regardless of any reflective reasoning, then, general rules will occur whenever the
“superfluous circumstances” possess three features that increase their “influence on the
imagination”. Unfortunately, Hume does not discuss these features in any detail.
Nevertheless, he clearly believes that all three features are present in the circumstances in
which the man in the cage finds himself: those in which he can see the ground far below his
feet. I suggest that we should understand these features as follows. First, the relevant
“circumstances” are “numerous”: the man’s visual field includes many impressions of the
ground far below him. Second, being high above the ground is a “remarkable” experience: it
is one we care about, such that it will cause a passion of fear. And third, experience shows
that the circumstances of being high above the ground are “frequently conjoin’d” with those
of falling to the ground.

The first two of these features will dispose this man to keep looking at the ground far
below him. The third will ensure that, every time he does this, his impressions of the ground
will produce a lively idea of falling, “by a natural transition, which precedes reflection, and
which cannot be prevented by it” (T 1.3.13.8). This “transition” occurs too quickly to
interact with any reasoning processes which might be activated by “the contrary
circumstances of support and solidity, which ought to give him a perfect security” (T
1.3.13.10). Therefore, these lively ideas will occur even “in opposition to the judgment” (T
1.3.13.9). In other words, the man in the cage will keep experiencing lively ideas of falling,

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15 Presumably, this process will cease if the man becomes accustomed to being high up.
regardless of any reflective beliefs that he might form concerning his situation.

So, it seems, the name ‘general rules’ is seriously misleading: they are not really rules at all (although I will continue to follow Hume in calling them ‘general rules’). They are, I suggest, best understood as follows:

*General rules:* Those lively ideas that are repeatedly produced, via exceptionally fast, automatic processes of customary association, whenever we experience numerous lively perceptions of one kind of object that has been frequently conjoined with another kind of object that we care about.

They are thus ideas of the “usual” effects of certain objects, which come to mind even under circumstances in which such effects cannot occur. Hume thinks we can “correct this propensity by a reflection on the nature of those circumstances; but ‘tis still certain, that custom takes the start, and gives a bias to the imagination” (T 1.3.13.9). However, if general rules are produced via automatic, unreflective processes, then they presumably cannot be directly altered or prevented by reflective reasoning.

In section 2, I will argue that Hume understands this kind of correction in the following way. He thinks that, although we cannot directly influence our general rules by reflective reasoning, we can correct for their effects by resisting our inclination to focus on just those perceptions which cause them, and by attending instead to the wider context in which our perceptions appear. For example, the man in the cage can refrain from looking at the ground below him, and he can focus his attention instead on the bars that support him. This will increase the number of unreflective causal reasoning processes that will be caused by his impressions of the iron bars, many of which will then strengthen his lively idea that he
will probably not fall.

2. Correcting for general rules

Anyone suspended in a cage above the ground will keep experiencing lively ideas of falling. However, Hume argues, we are capable of “rejecting” these general rules (T 1.3.13.12). This requires the “influence of general rules” of a second kind (T 1.3.13.11). Unlike general rules, Hume understands these as genuine rules. I will return to them later, but their primary influence is to prompt us to “take a review of” the reasoning process, or “act of the mind”, which produced our general rules, and so to recognize that similar processes have previously been unreliable, or “irregular” (T 1.3.13.12).

If the man in the cage is prompted to recognize the irregularity of his lively ideas of falling, then he will want to engage in reflective reasoning about his situation, to better “distinguish the accidental circumstances from the efficacious causes” (T 1.3.13.11). However, Hume believes that “all reasonings are nothing but the effects of custom; and custom has no influence, but by inlivening the imagination, and giving us a strong conception of any object” (T 1.3.13.11). Given such claims, Owen (2002, 216) reads Hume to argue that all causal beliefs, including our most reflective causal beliefs, are produced via “internal mechanisms”, which we can consciously influence only by altering their “inputs”. I think Hume’s account of general rules supports this interpretation. He argues that we can only “correct” for the influence of our general rules by altering the inputs to the psychological “mechanisms” which produce our causal beliefs.

Hume has already argued, in a short but important passage, that we can “assist the custom and transition of ideas” that occur during causal reasoning by engaging in a process of “reflection” (T 1.3.8.14). Reflective processes can occur either “expressly” or “indirectly”. Hume contrasts these processes with ones which occur tacitly and directly, and which I take
to be unreflective processes. Admittedly, Owen (2002, 171) understands express reasoning as a kind of unreflective reasoning. However, since Hume argues that it involves “expressly” considering our “past experience”, I understand it as the process of consciously reflecting on one’s memories. In contrast, “tacit” reasoning processes presumably occur without our consciously noticing the involvement of our memories.

Hume’s initial discussion of “indirect” reasoning concerns just a subset of cases, in which we can “attain the knowledge of a particular cause merely by one experiment” (T 1.3.8.14). By reflecting on a situation in which one unfamiliar object was followed by another, Hume argues, we can come to believe that the former object caused the latter. He claims that any such belief will rely on a “principle”, produced via “many millions” of experiences, that “like objects, plac’d in like circumstances, will always produce like effects”. I am persuaded by Marie Martin (1993, 249) that this is not a belief, but rather a habitual principle: the “higher-order… custom of causally relating objects of which we have had little or no past experience”.

Martin thinks we employ this principle to inform our reflective, higher-order reasoning processes. However, Hume appears to think instead that, once this “principle has establish’d itself by a sufficient custom”, it will ensure that we will unreflectively infer, from the existence of two unfamiliar objects in an otherwise familiar setting, to the conclusion that the two objects are causally related (T 1.3.8.14). We habitually expect all objects to have causes, and experience shows that familiar objects in familiar circumstances never produce unfamiliar effects. Therefore, if we encounter an unfamiliar object, and if we recognize that just one other unfamiliar object preceded it, then we will habitually form a lively idea of the two as cause and effect.

According to Hume, any such inference must be “made with judgment, and after a careful removal of all foreign and superfluous circumstances” (T 1.3.8.14). Presumably, he
means by this that, if we encounter an unfamiliar object and we want to “attain the knowledge” of its cause, then we can only do so by carefully examining our surroundings, to identify other unfamiliar objects as potential causes, and to rule out familiar objects as “superfluous”. If we successfully identify just one other unfamiliar object, then we will habitually form a lively idea of the two unfamiliar objects as cause and effect.

An example might help. Say I see that a leaf on my houseplant is covered in strange holes, and I want to know what caused them. If I have good “judgment”, then I will look over and around the plant to see if I can find anything else that is “unusual”. Whenever I identify familiar objects, like other leaves, the stem of the plant, and so on, I will habitually form lively ideas that these are not the cause of the holes. But if I see an unfamiliar insect, then I will habitually form a lively idea of the insect as the cause of the holes. The more objects that I rule out as potential causes, the more certain will I feel that the insect did cause the holes.

From all that Hume says, it seems that the only reflective process involved in this kind of inference is that of the “careful removal of all foreign and superfluous circumstances”. Therefore, indirect reasoning seems to be simply the process of carefully attending to the general surroundings, or set of “circumstances”, in which we find any potential cause or effect. By such careful attention, we will experience more impressions than we otherwise would, and so we will experience more unreflective reasoning processes than we otherwise would. Hume therefore believes that we can reflectively activate processes of customary associations of ideas, albeit only in “an oblique and artificial manner” (T 1.3.8.14).

Now note that, just before he discusses unphilosophical probability, Hume argues that “philosophical” reasoning about probabilities typically requires us to activate causal “reasonings… in an oblique manner” (T 1.3.12.7). He summarizes this “manner” by claiming that we “take knowingly into consideration the contrariety of past events; we compare the different sides of the contrariety, and carefully weigh the experiments, which we have on
each side”. In other words, we engage in express reasoning, by contemplating our memories of similar cases.

Hume distinguishes between two kinds of philosophical probabilities – those of “chance” and “causes” – but this is merely a superficial distinction, since “what the vulgar call chance is nothing but a secret and conceal’d cause” (T 1.3.12.1). In Hume’s view, all “philosophical” beliefs about probabilities are “always of the same kind, and founded on the same principles” (T 1.3.12.6). They are complex, lively ideas, typically produced by distinct reasoning processes interacting with one another.16 Whenever we form beliefs about probability, Hume argues, there is a “transition or union of forces” (T 1.3.12.23). By this, he means that several associative processes will interact and combine to produce just one complex idea, instead of several simpler ideas.

Hume offers the following example. If we see a ship leave dock, and if we recall that we have previously seen nineteen out of twenty ships return from their voyages, then we will form a belief of the ship’s probable return (T 1.3.12.11). Hume argues that we will, at least initially, habitually form one idea of the ship failing to return and a further nineteen ideas of it returning. However, since these are “disagreeing images”, the “impulse” to form them will be such that each image, or idea, “partakes an equal share of that force and vivacity, that is deriv’d from the impulse” (T 1.3.12.10). If we were to simply form the twenty different ideas, then each idea would have one twentieth of the feeling of force and vivacity that is possessed by a “proof”: that kind of causal belief which is “entirely free from doubt and uncertainty” (T

16 Another kind of “philosophical” probable reasoning can occur if we have seen one kind of object frequently, but inconsistently, producing another. If we see a new object of the former kind, then we will habitually form “a kind of hesitating belief” that an object of the latter kind will appear (T 1.3.12.6). However, Hume thinks this explains only a “few instances” of our “probable reasonings” (T 1.3.12.7).
1.3.11.2). However, Hume argues, the dividing of vivacity that occurs in this case will “change the first form of our ideas, and draw together the divided images presented by experience” into just one complex, lively idea. This idea will have “only… that force, which remains after substracting the inferior” vivacity of any “contrary” ideas: in this case, the idea of the ship’s future absence (T 1.3.12.19). In short, our idea of the ship’s return will have a degree of liveliness such that it feels probable.

According to Hume, experience shows that “the belief, attending any reasoning, consists in one conclusion, not in a multitude of similar ones, which wou’d only distract the mind” (T 1.3.12.19). He therefore argues that probable reasoning always involves our combining ideas of relevant past experiences into just one, complex idea:

It remains, therefore, as the only reasonable opinion, that these similar views run into each other, and unite their forces; so as to produce a stronger and clearer view, than what arises from any one alone. This is the manner, in which past experiments concur, when they are transfer’d to any future event. (T 1.3.12.19)

We can now apply Hume’s arguments concerning philosophical probability to the case of the man in the iron cage. If he engages in “indirect” reasoning, then he will do so by attending not just to the ground below him, but also to other features of his situation, including the strong iron bars surrounding him. This will increase the number of ideas of being safely supported that will occur to him, since every impression of strong iron will produce an idea of this kind via customary association. Furthermore, if he “expressly” remembers similar cases, then he will form many ideas of objects being safely supported by iron, and only a few, if any, ideas of objects falling through iron. By engaging in both kinds
of reflective procedures, he will “obliquely” activate many unreflective processes of causal reasoning. These will then combine to inform his complex, lively idea of his (very) probable safety. He will thus “correct” for his general rule by “a reflection on the nature of… [his] circumstances” (T 1.3.13.9).

This man will now possess two, conflicting kinds of lively idea: an unreflectively produced, simple, but very lively idea of falling – the general rule – and a reflectively produced, complex belief of his probable safety. The more he engages in reflective reasoning, the livelier and more complex his belief about probability will become. This belief cannot directly influence his general rules. Nevertheless, once it is lively enough, the man can confidently “ascribe” it to his “judgment” and so treat his lively idea of falling as the mere product of a vivid “imagination” (T 1.3.13.11).

Let us return to the second, corrective kind of “general rules” which Hume discusses at T 1.3.13.11. I agree with William Morris (2006, 87) and Owen (2002, 212) that these are simply identical with eight rules that Hume later sets out, and which he thinks it “proper” to follow whenever we engage in causal reasoning (T 1.3.15.2). Call these the “proper rules”. The most important, at least for “philosophical” reasoning, is the fourth: “The same cause always produces the same effect, and the same effect never arises but from the same cause” (T 1.3.15.6).

According to Hume, the proper rules are “form’d on the nature of our understanding, and on our experience of its operations in the judgments we form concerning objects” (T 1.3.13.11). Presumably, therefore, Hume thinks that we formulate the fourth proper rule by recognizing that we have historically formed our most reliable beliefs by habitually acting on the principle that “like objects, plac’d in like circumstances, will always produce like effects”. We have never seen a familiar object in a familiar situation produce an unfamiliar effect, according to Hume, or indeed a familiar object in a familiar situation failing to produce its
typical effect. Therefore, by engaging in express reasoning about our own “judgments… concerning objects”, we can form a probable belief of the kind Hume calls a “proof”: a complex, lively idea of similar past experiences in which there are no “contrary” ideas. Hume appears to think that the proof so produced can be expressed in the form of the fourth proper rule.

If we reflect on this proof, or rule, then Hume thinks we will be motivated to check whether our current beliefs were formed accordingly. We will therefore want to “expressly” remember any similar cases that we might have experienced in the past, to check whether we have seen like objects in like circumstances, and to remember what their effects were. We will also want to employ good “judgment”, by engaging in “indirect” reasoning. We will, therefore, carefully examine our situation, to identify any potential causes and to remove “all foreign and superfluous circumstances” from our consideration.

So, if the man in the cage acts on the fourth proper rule, then he will observe that his general rules occurred before he had time to remember any similar occasions, or to pay much attention to the details of his circumstances. He will remember that many previous beliefs which were so “rashly” formed were “irregular”. He will then be motivated to engage in express and indirect reasoning about his situation, as just discussed. This is, I believe, all the reflective, deliberative reasoning that Hume thinks we can usefully engage in to counter our general rules.

However, we still do not know why Hume calls these unreflective causal beliefs “general rules”. In the next and final section, I will argue that Hume understands them as ideas that are verbally expressible only as generic generalizations.

3. General rules as generic generalizations

Over recent years, Sarah Jane Leslie (2008) has argued that generic sentences, like “birds lay
eggs”, express inductive generalizations of a psychologically primitive kind. We can form such generalizations in infancy, before we can form generalizations that are expressible via quantified statements, like “many birds lay eggs”. As anyone who has cared for young children might observe, people learn to say and understand generic statements, like “cows say moo”, before they can say or understand quantified sentences.

Even as adults, Leslie (2008, 42) argues, we can only form non-generic generalizations by “inhibiting or overriding” these “default” generalizations. If we encounter anything sufficiently “striking” – or, as Hume might say, “remarkable” – then we will default to a generic generalization. We are therefore disposed to assent to any generic generalizations in which the “predicate expresses a property that is striking, often in virtue of being dangerous or appalling”. Leslie (2017, 395) calls such generic generalizations “striking property generalizations”. For example, although very few tigers eat people, the property of eating people is clearly a striking one, and so people typically agree that “tigers eat people”. In contrast, the statement “tigers are female” seems clearly false, even though approximately half of all tigers are female.

Leslie (2017, 394) argues that, since we so readily assent to striking property generalizations, we are prone to a kind of “cognitive bias that has contributed to certain virulent forms of prejudice”. That is, we are strongly disposed to assent to generics which involve a “strikingly negative action” that is associated with “a few members of a racial, ethnic, or religious minority” (2017, 399). So, to use Leslie’s (2017, 394) example, we are disposed to assent to generics like “Scots are violent drunkards”. Here, we need not consider all the details of her argument or of the suggested psychological mechanisms at play. It is sufficient to note Leslie’s (2017, 396) claim that, if we have seen or heard about just a few members of a certain group who exhibit a harmful or dangerous property, then we are liable to assent to a generic that attributes that property to the group.
I suggest that Hume was attentive to broadly these same psychological features. Of course, his philosophical and psychological theories differ in many important respects from any that we would endorse today. Nevertheless, I think we can usefully understand Hume’s *general rules* as something rather like Leslie’s “striking property generalizations”.

Certainly, *general rules* appear to be psychologically primitive. Hume argues that unreflective beliefs occur to “children” and “mere animals” (T 1.3.16.3). Even a “dog… avoids fire and precipices”, because it customarily associates these things with pain (T 1.3.16.5). Admittedly, Hume believes that the very young lack enough experience to form the kinds of causal beliefs of which we can feel certain, such that they amount to proofs. Before “any entire proof can exist”, Hume argues, we must form a strong habitual association between two objects (T 1.3.12.3). This takes time, since habit must “acquire new force from each instance, that falls under our observation” (T 1.3.12.2). Yet Hume does not appear to think that we need very many experiences with a “remarkable” causal relation for *general rules* to occur. A child who burns their hand in a fire will very quickly learn to associate fire with pain (E 4.23).

*General rules* are thus among the most psychologically primitive causal beliefs that we can experience, according to Hume. And, although he does not say so, these psychologically primitive, unreflective beliefs seem unable to carry information about quantification. Consider a case in which we experience numerous visual impressions of fire. In this case, we will repeatedly experience *general rules*, each one of which will consist of nothing more than a lively idea of heat, produced by customary association with our impressions of fire. These *general rules* are surely too simple to form the belief that “all fires cause heat” or that “some fires cause heat”. I think we can only plausibly understand them as deserving of the name ‘*general rules*’ if we understand them as ideas which are expressible only as generic generalizations.
Here, we must ask how Hume would understand beliefs about quantification. Although he never discusses these in any detail, he would surely see them as complex ideas, and he would presumably think of them as closely related to beliefs about probability. For example, I think he could only coherently understand the belief that *most birds can fly* as a complex idea which comprises many ideas of flying birds and a few ideas of birds that cannot fly. This belief is clearly very similar to the belief that any randomly chosen bird can *probably* fly. As such, I think that Hume would claim that the idea could only have been produced via a process in which several reasoning processes interact with one another. To reflectively judge that “most birds can fly”, we must engage in *express* reasoning, such that we recall many ideas of birds flying and far fewer ideas of birds being unable to fly. These ideas will then combine to form the complex, lively idea that most birds can fly.

As we have seen, Hume believes that *general rules* will immediately occur to us whenever we encounter numerous impressions of kinds that, in our experience, have frequently been conjoined with something that we care about. So, just as he argues that *general rules* occur too quickly to form any part of our complex beliefs about probability, I suggest, he would think that they appear too quickly to form any part of our complex beliefs about quantification. Therefore, given Hume’s understanding of language, they seem to be verbally expressible *only* as generic generalizations.

Unfortunately, Hume never offers us anything like a full theory of language. Nevertheless, he is clearly influenced by Locke’s view that sentences derive their meanings from the ideas that they express.\footnote{E.g., T 1.4.2.26; T 1.4.3.10.} According to Hume, we learn to apply ‘names’ to ‘objects’ by habitually associating the two (T 1.1.7.7). For example, if we associate the name ‘fire’ with our idea of fire, then we will think of fire whenever we hear the word ‘fire’. Similarly, if
we see a fire, then we will habitually call it a ‘fire’. Therefore, to say “fire” is to express our idea of fire to other speakers of English, since they too will habitually form the idea of fire on hearing the word.

Given this, I suggest that Hume would think that the above general rules – the lively ideas of heat that are repeatedly produced by customary association with impressions of fire – would be expressible only via a generic sentence, like “fires cause heat”. The only ideas involved in these general rules are those of fire, causation (at least on Hume’s second definition at T 1.3.14.31), and heat. And, as we have seen, Hume thinks that these general rules will occur too quickly to form a part of any other beliefs, including our beliefs about probability or quantification.

Therefore, I think we should understand Hume to believe that anyone who is sufficiently close to a fire will experience general rules that are expressible only via a generic sentence like “fires cause heat”. Similarly, the man in the cage could only express the general rules that he experiences by uttering a generic statement like “being high up causes falling”. Any set of resembling general rules will, I think, comprise a generic generalization. Furthermore, since Hume believes that we will only experience general rules when we encounter “remarkable” objects, I think that his general rules are, at least in their general outlines, notably similar to Leslie’s “striking property generalizations”.

As a final point, recall that Hume sees certain general rules as the “source” of

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18 We might think that these general rules also involve an idea of our determination of the mind to think of heat, so that the relevant expression would be “fires necessarily cause heat”. However, although a generic statement like “being high up causes falling” can plausibly be understood as a “general rule”, the same cannot be said for “being high up necessarily causes falling”. Furthermore, the latter statement is obviously false, whereas the generic generalization may well appear true. It is therefore only the generic statement, I suggest, which constitutes a Humean general rule.
prejudice (T 1.3.13.7). This suggests that he possesses something like a theory of implicit bias. To return to his example, if we live in a society which treats Irishmen as witless, then, whenever we meet an Irishman, we will experience something like the general rules “Irishmen cause witless remarks”. That is, we will repeatedly experience lively ideas of witless remarks, produced by customary association with our impressions of the Irishman. These ideas will automatically come to mind, regardless of any obvious wit that the Irishman might display, or of any reflective beliefs that we might have about the folly or immorality of treating all Irishmen as witless.

Yet Hume’s claim that general rules are the “source” of prejudice suggests that he sees an important distinction between our being possessed of an implicit or cognitive bias towards a group and our being prejudiced towards that group. Anyone, in any society that treats Irishmen as witless, will experience general rules of the kind just discussed.\(^\text{19}\) However, to be prejudiced against Irishmen, it seems, one must reflectively endorse this judgment. One must infer from one’s experience of such general rules that “an Irishman cannot have wit” (T 1.3.13.7).

Hume therefore seems to believe that we can avoid being prejudiced, at least if we reflect well enough, even if we cannot eradicate our general rules. We can avoid reflectively believing that all Irishmen really are witless. If we are “wise”, then we will reject any lively ideas along these lines as the mere products of a lively imagination (T 1.3.13.12). Similarly, as we have seen, the man in the cage can refrain from believing that being high up always causes falling, or that he will fall. However, he cannot stop vividly imagining falling, because

\(^\text{19}\) As an anonymous reviewer observes, Hume thinks our sympathies with the prejudiced opinions of those around us will also make us think of Irishmen as witless, since everyone finds it “very difficult to follow their own reason or inclination, in opposition to that of their friends and daily companions” (T 2.1.11.2).
– as he is made repeatedly and vividly aware – being high up causes falling.

**Conclusion**

In this paper, I have argued that Hume understands *general rules* as an important kind of causal belief. They are, I have argued, relatively simple causal beliefs, which are repeatedly produced quickly and automatically, such that they occur independently of all other beliefs, and such that they can be expressed only via generic sentences. They occur to us whenever we encounter numerous impressions of kinds that, in our experience, have frequently been conjoined with something that we care about. I have not here addressed the implications of this interpretation for our understanding of Hume’s wider theories. Neither have I addressed Hume’s intriguing suggestion that certain “sceptics” will be pleased by some unexplained implications of his account (T 1.3.13.12). However, I very much hope that future research will do so.20

**References**


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