things that might in fact be impossible, from time travel to snow that burns on impact, to the failure of the law of excluded middle. In Hughes and Cresswell's first treatise on modal logic they pointed out that the modal logic of conceivability falls short of the modal logic of logical possibility (being \$4 as against \$5). Thus saying that we can conceive of Nihilism being true in no way ensures that it is possible for Nihilism to be true. And the moral objectivist should simply bite the bullet here and claim that if Nihilism is not true in the actual world then there are no possible worlds in which Nihilism is true. Pigden has a much harder job than he imagines to establish that it is genuinely possible, but that is what he needs to do. What he regards as his conclusive argument against my position fails.

But if we return to the main issue, we can take stock: I wanted to argue that there is a sense in which in the following argument:

A is confronted by a friend drowning; A's faculties and abilities are in good working order, and A recognizes that his friend has no desire to drown.

Therefore:

A ought to attempt to save his friend.

escorting 20 children across a road (Schurz) or if A's friend is a torturer or a rently know of no logic that codifies that degree of support. Both Charles the premises support the conclusion, even while acknowledging that we curan argument is valid then it cannot be made invalid by adding premises). This adding premises, something that cannot happen in a deductive argument (if argument in which the support that an argument has may be reversed by tyrant (Pigden). But then the argument is just like a probabilistic-inductive the degree of support that the conclusion seems to have: if A is meanwhile ful and important things to say) note that adding information will destroy Pigden and Gerhard Schurz (whose response I acknowledge has many usewould not mean that the conclusion was not supported by the premises when which might meet the final of Hume's sceptical thrusts has not been closed the possibility that there might be a third expansion of the concept of Reason been done. And that was what I was attempting to argue. off - against several claims that current logic had already shown this to have they are unaugmented – indeed it rather suggests that it was. Thus I think that

Both Pigden and Musgrave, apparently believe that if the pen is mightier than the sword then bluster must be mightier than the blunderbuss. But candid argument is generally to be preferred to denigration and declamation – as Hume himself would surely have agreed.

Note

1. I pass over Pigden's argument against my 'fundamental tenet' in §5 since I don't regard the argument as particularly strong or interesting.

4

In Defence of Hume's Law

Gillian Russell

Introduction

Hume's Law says that you can't get an *ought* from an *is* or, less memorably, that no set containing only descriptive sentences implies a normative sentence. The literature on Hume's Law contains a number of arguments that purport to be counterexamples to the law, that is, valid arguments from descriptive premises to normative conclusions.

In the face of such arguments, there are two responses open to someone who has found Hume's Law intuitive. The first is to give up on the law. This was the line taken by A.N. Prior in his 1960 paper 'The Autonomy of Ethics' (this volume, chapter 1.1):

It has often been said – in fact, I have said it quite emphatically myself – that it is impossible to deduce ethical conclusions from non-ethical premises. This now seems to me to be a mistake. (Prior, 1960, p. 199)

The other option is to come up with a more careful formulation of the law, in effect to reformulate the law so that it avoids the counterexamples.² The challenge associated with this second option is that of finding a new formulation of the law which avoids all the counterexamples, and of making it plausible that this is no mere ad hoc rescue attempt motivated by counterexamples alone, but was the intuitive content of Hume's Law all along.

This chapter argues that we should take up the challenge of reformulation. In section 2, the proposed counterexamples to Hume's Law are reviewed. In section 3, the similarity between Hume's Law and some other, mostly platitudinous, implication barrier theses is pointed out. In section 4, I show that all the proposed counterexamples to Hume's Law have appropriately similar 'sister' arguments which can be run against the other barrier theses. Since we would never take these to show that the other barrier theses should be relinquished, but only that we have yet to find the right way to express them, I argue in the final section that we should treat Hume's Law in the

same way: attempt to formulate it more precisely, rather than give it up on the basis of the counterexamples.

2. Alleged counterexamples To Hume's Law

Let's begin with Prior

ing counterexample to Hume's Law: Prior's argument: In 'The Autonomy of Ethics' Prior proposed the follow-

- Tea-drinking is common in England
- Tea-drinking is common in England or all New Zealanders ought to be shot. $(1, \lor l)$

descriptive premises and a normative conclusion. But if the conclusion is not normative, the following argument will do just as well: normative sentence, and thus whether this is really an argument with only One might doubt whether the conclusion to Prior's argument is really a

- Tea-drinking is common in England or all New Zealanders ought to
- Tea-drinking is not common in England.
- All New Zealanders ought to be shot. (1, 2 DS)

tive premises to a normative conclusion. at least one of the above arguments must be a valid argument from descripmative on any respectable understanding of that expression, so it seems that I take it that the sentence All New Zealanders ought to be shot counts as nor-

a schematic sentence letter that may only be replaced by a descriptive sensentence letter that may only be replaced by a normative sentence and 'D' as draw on the distinctive features of classical logic. If we use 'N' as a schematic tence, then the following valid arguments are counterexamples to Hume's Classical logic: There are also a set of counterexamples to Hume's Law that

DFN<1 DAJDHN $D \vdash \neg D \rightarrow N$

might suggest to a certain kind of philosopher that Hume's Law can be with classical logic and disjunctive syllogism in the above arguments A relevant counterexample: The use of the 'paradoxes' associated

> mative sentence. However there are counterexamples to this formulation structure containing only descriptive sentences relevantly implies a norstraightforwardly reformulated using a relevant logic, for example, as no

are descriptive, then consider the following argument: tence is also a descriptive sentence) and that all non-normative sentences sentence is also a normative sentence and the negation of a descriptive sentences are closed under negation (that is, that the negation of a normative If we assume for the moment that sets of normative and descriptive sen-

vantly, get an ought from an is.3 our assumption) and relevantly implies $\neg (D \land N)$. Thus you *can*, even releand hence, by our assumption, so is $\neg (D \land N)$. But $\neg D$ is descriptive (using $D \wedge N$ relevantly implies N, so if Hume's Law is true, $D \wedge N$ is normative,

ductive argument. In one kind the validity of the argument is secured by its form. An example of such an argument would be: Informal counterexamples: I take it that there are two kinds of good de-

- All men are mortal
- Socrates is a man.
- Socrates is mortal

may be guaranteed by some conceptual link between the sentences, as in: valid one, because the truth of the conclusion, given that of the premises, But an argument can be a good deductive argument without being a formally

- 1. Socrates is a bachelor
- Socrates is a man.

presents the following argument: are conceptually, but not formally, valid. For example, John Searle (1964) of the counterexamples to Hume's Law that can be found in the literature as opposed to arguments composed of natural language sentences. But many formally valid, and this has enabled me to discuss argument forms at times All the alleged counterexamples to Hume's Law considered so far have been

- P1 Jones uttered the words "I hereby promise to pay you, Smith, five
- C1 Jones promised to pay Smith five dollars.
- C2 Jones placed himself under (undertook) an obligation to pay Smith five dollars.
- C3 Jones ought to pay Smith five dollars

argument from descriptive premises to a normative conclusion: and what we have reason to do might also accept the following as a valid Those who accept that there is a conceptual link between what we desire

- 1. Jones wants the car to go faster.
- If Jones puts pressure on the accelerator the car will go faster.
- 3. Jones has a reason to put pressure on the accelerator

conclusion: is then used in an inference from a descriptive premise to a normative Rosen. It uses a stipulative definition to introduce a new expression, which Flurging: The final counterexample that I will consider is due to Gideon

in front of children. Definition: (to flurg) To flurg is to do something that one ought not to do

- Jones is in the presence of children.
- Jones ought not to flurg.

much more straightforward; there is less room for suspicion that they ered previously is that the conceptual ones have the appearance of being One difference between the above arguments and the formal ones considrely on counter-intuitive or 'tricky' inference forms in truth-functional

will not work against all the arguments above. Searle, for example, turns to use in the argument, for which there is a conceptual link.5 Moreover, it hostage however, to the opponent of Hume's Law coming up with new terms 'man') guaranteeing the validity of the argument. This response would be that there is no real conceptual link (such as that between 'bachelor' and his argument into a formally valid one by adding the linguistic facts he However there is scope for a different suspicion. Someone might claim

"I hereby promise to pay you, Smith, five dollars" promises to pay Smith 1a. Under certain conditions C anyone who utters the words (sentence)

gation to do the thing promised 2a. All promises are acts of placing oneself under (undertaking) an obli-

3. Implication barrier theses

a career out of identifying and insisting upon implication barrier theses. not the only such thesis. Indeed, Hume seems to have made something of premises taken from a certain set to a conclusion taken from another. It is Hume's Law is an implication barrier thesis; it says that you cannot get from

> Here are three more, capriciously named after philosophers who have maintained them:6

ticular ones. Russell's Law: You can't get a general or universal sentence from par-

larly clear statement of this law: In his The Philosophy of Logical Atomism Bertrand Russell provides a particu-

osition in your premises. (Russell, 1985, p. 101) propositions alone. You will always have to have at least one general prop-You can never arrive at a general proposition by inference from particular

must have caught their generality from an infected premise. normativity by some premise, so Russell maintains that general conclusions the virus intuition. Just as a normative conclusion had to be 'infected' with particular/general implication barrier is notable for its clear statement of Russell's point here is, I believe, uncontroversial. His endorsement of the

tences about the past or present Hume's Second Law: You can't get a sentence about the future from sen-

Hume writes:

can prove this resemblance of the past to the future; since all these arguclusion. It is impossible, therefore, that any arguments from experience experience becomes useless, and can give rise to no inference or conments are founded on the supposition of that resemblance. (Hume, EHU, nature may change, and that the past may be no rule for the future, all ture will resemble the past...If there be any suspicion that the course of all inferences from experience suppose, as their foundation, that the fu-

which does not contain an infected premise. ture can be valid without this premise, there will be no such valid inference inference from statements about the past and present to those about the fuwhich says that the future will resemble the past. Since he thinks that no Here Hume makes a claim about what the infected premise is. It is the one

the case from sentences which say how things actually are Kant's Law: You can't get sentences saying that something is necessarily

Kant it seems clear to me that this barrier is an important theme in his work. Though I cannot find a suitably clear and precise statement of this law in

inclined to doubt. I, for one, think that It is necessary that Hesperus is Hesperus available to us. On one traditional conception, such laws claim that some barrier is closely linked in the history of philosophy to the problem of how who appealed to the inference barrier were mistaken? No. This inference follows from Hesperus exists. 7 But do I think that those eminent philosophers It is also perhaps the implication barrier (of these three) that we are most connection is necessary and what philosophers have denied the validity of it is that we can know the laws of nature, given the observations that are are inferences of the following form:

$$(Nec) \; Fa_1 \wedge Ga_1 ... Fa_n \wedge Ga_n \vdash \Box \; (\forall x) (Fx \rightarrow Gx)$$

all F's have to be G's. And of course, they are right about this. It seems to me Just because all the F's so far have been G's, they say, it doesn't follow that on Kant's Law completely. Observations about identity tell us that the naive when we have sentences containing identity should not cause us to give up that the important observation that there is something interesting going on was just a first stab at expressing an important thesis. formulation of the law is too strong. What we should now think is that it

about the actual world now and in the past. To the extent that you see what accepts that there is an issue about how to get laws (if not necessary ones, at strongest form. Now everyone understands the problem of induction and ence barriers. philosophers have been concerned about here, you recognize these inferleast general and future-directed ones) from data – particular observations from a was, no must from an is - you get the problem of induction in its If you put these three barrier theses together - no all from an is, no will

Collateral damage

sister arguments which can be run against the other three inference barrier tive counterexamples to Hume's Law (that have been discussed here) have The main point that I want to establish in this chapter is that all the puta-

In the case of the formal arguments this is very straight forward, since each of the arguments was a theorem of, or an instance of a theorem of, can be used to interpret sentence letters. Thus where A.N. Prior, for example, some sentential calculus, and general, future and necessity-style sentences

- Tea-drinking is common in England.
- 2. Tea-drinking is common in England or all New Zealanders ought to be shot.

we note that the following arguments are also truth-preserving:

- 1. Bird A is white
- 2 Bird A is white or all ravens are black
- 2. The sun has risen every day so far
- The sun has risen every day so far or the future will resemble the past.
- Event A was followed by event B
- Event A was followed by event B or it is necessary that B follows A

or all ravens are black is not a general statement, then the following argument the next move can be the same as in the Hume's Law case. If Bird A is white conclusion kind (that is, not really future, necessity-style or general) then will serve just as well as a counterexample to Russell's Law: Should someone suggest that the conclusions are not really of the relevant

- 1. Bird A is white or all ravens are black
- It is not the case that bird A is white.
- 3. All ravens are black. (1, 2 DS)

Law, so they will with the other barrier theses too. For example: members of the premise kind to members of the conclusions kind for Hume's Moreover, just as the idiosyncrasies of classical logic provide arguments from

Ma∧¬Ma⊢∀xMx

S ^ ¬S + GS S ^ ¬S + □S

steps of the argument against the relevant formulation are also trivial to are theorems of first order classical logic, T and K respectively.8 The key

barrier theses too. For example: premise kind to statements of the conclusion kind for each of the inference There are merely conceptually valid inferences from statements of the

- The only chair in the room is black.
- 2. All the chairs in the room are black
- 2. Hesperus exists.
- Necessarily, Hesperus is Hesperus
- 1. Dracula is immortal.
- 2 At all future times it will be the case that Dracula is alive.9

It is less obvious how the flurg argument can be adapted for use in the generality, time and necessity cases, but this is perhaps just because it is less obvious how the flurg example works. The form of the definition of flurg is:

$$\forall x (Fl(x) \Leftrightarrow C \to O \neg D(x))$$

where 'Fl(x)' is the predicate 'flurg', 'D(x)' is 'x is done' and 'C' is 'there are children around'. The argument against Hume's Law then has the form:

$$\mathsf{C} \vdash \mathsf{V} \mathsf{x} (\mathsf{Fl}(\mathsf{x}) \to \mathsf{O} \neg \mathsf{D}(\mathsf{x}))$$

By replacing the 'O', and (for plausibility) 'C' and '¬D', we can generate schemata for definitions that will allow counterexamples to each of the barriers discussed above, and translate these back into English. For example, let 'C' be replaced with 'colour is determined by chemical structure', '¬D(x)' by 'is blue' and replace 'O' with ' \square ' and 'flurg' with 'eternal blue.' This gives us the following:

Definition (ETERNAL BLUE): Something is eternal blue, iff, providing colour is determined by chemical structure, it will be blue at all future

- 1. Colour is determined by chemical structure.
- 2. Eternal blue things will be blue at all future times.

Repeating the process for the necessity case gives us:

Definition (DETERMINEDLY EARNEST) Someone is determinedly earnest iff, if character traits are inherited, he is necessarily earnest.

- 1. Character traits are inherited
- 2. Anyone who is determinedly earnest is necessarily earnest.

The generality case is more complicated since quantifiers operate on sentential functions rather than sentences and so we will not get well-formed statements if we replace our operators with quantifiers. But we can look at, and extrapolate from, more general features of the flurg argument. The right-hand side of the definition consists of a condition, under which a statement of the conclusion kind will hold. In the generality case the conclusion kind is general statements. So we might define the predicate 'projectable pink' as follows:

Definition (PROJECTABLE PINK): Something is projectable pink iff, if it is quartz, everything that is quartz is pink.

It then seems straightforward to formulate an argument from a particular case to a general conclusion:

- This is quartz.
- 2. If it is projectable pink, all quartz is pink

. The defence

So that was the main point of this chapter: a number of putative counterexamples have been formulated against Hume's Law. You might – quite reasonably, like Prior – have thought that these should lead us to relinquish the law. But, as I have shown, arguments with all the same salient features can be formulated against other implication barrier theses, and, it seems to me, it would not be reasonable to give up on these. Clearly, there is something to these theses, it's just that we don't yet have the right formulations. But what follows from this?

HXFX' is a valid argument, the objector would be thought confused, or at be said for Hume's Second Law and Kant's Law; so why single out Hume's somewhat loose way of stating something that is clearly right. The same can best a frightful pedant with an implicature bypass; Russell's statement is a that you can't get general statements from particular ones because 'Fa ^ -Fa If someone were to suggest that Russell was completely wrong in saying fectly good implication barrier theses that are in exactly the same position. is a case to be made against Hume's Law, but so what? There are other, persuch platitudes gives us a good company argument for Hume's Law. So there the observation that the same kind of counterexamples can be run against arguments that have been given as counterexamples. And second, I think Kant's and Hume's Second Laws - won't be one that avoids conflict with the formulation of Hume's Law - just like the best formulations of Russell's, mulation of the law. Otherwise we can reasonably wonder whether the best effect that the thesis to which he has counterexamples is really a good foris incomplete. The detractor from Hume's Law owes us an argument to the existence of the purported counterexamples to the falsity of Hume's Law Law for special treatment?10 Well, two things. First, I think this shows that the argument from the

Perhaps that last question can be answered. Good company arguments can be good arguments, but they are not deductively valid arguments and they are defeasible. So the next step, for both opponents and defenders, must be to find the right formulation of Hume's Law.

Notes

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A point of clarification: Hume's Law does not deny that a normative sentence can be derived from a set that contains both normative and descriptive sentences, ratracted it, it must have caught it from one of the premises. I will refer to this this idea vivid is to think of normativity as a virus. If the conclusion has conther it requires that at least one of the premises be normative. One way to make

thought later as 'the virus intuition'.

Given that the standard formulation of Hume's Law is not all that precise, there might be room for someone to proceed by providing definitions of terms in the understood as demanded by these definitions – the law no longer conflicts with law (for example, 'normative' and 'descriptive') that were restrictive enough that – mulation is not all that sharp; even if one were to change the wording of the law, tent clearer. But then, it seems to me that the line between clarification and reforto claim that he had not really reformulated Hume's Law, but just made its conthe 'counterexample' arguments. Someone who proceeded this way might want along. I will be treating all these kind of approaches as 'reformulation' responses we might be tempted to say that this is what was meant (if not explicitly stated) all

3. I first came across this argument in Gideon Rosen's Spring 2001 graduate seminar

4 There is a view according to which metalinguistic sentences about the meanings of words are normative sentences. For example, on this view the sentence 'Horse whether that be a property, a set or something else) is a normative sentence. If the means HORSE' (Where a word in capital letters refers to the meaning of that word, ample to Hume's Law. The definition is not explicit however, but implicit. (This inition) was normative, and that because of this the argument was no counterexword were introduced using an explicit definition, then the defender of Hume's Law might respond by saying that the implicit premise in the argument (the defword rather than mentions it, on the latter a definition is explicit just in case it than the logician's; on the former a definition is implicit just in case it uses the is the philosopher's distinction between implicit and explicit definitions rather 'definitions are normative' response is not available in this case. tence that defines the word uses it to state an apparently descriptive fact. So the has one of a small number of forms, for example, x is F iff ... or a = the F.) The sen-

This strategy will not work against the philosopher who claims that there are never conceptual links like this that validate arguments. But such a philosopher can skip this section – there is no need to defend Hume's Law against conceptu-

ally valid arguments to her.

6. Hume's Law itself is so-named because of the following famous passage from Hume's Treatise (though in fact it is controversial among Hume scholars

whether Hume really endorses the law here):

soning, and establishes the being of a God, or makes observations concerning remark'd, that the author proceeds for some time in the ordinary way of rea-'In every system of morality, which I have hitherto met with, I have always copulations of propositions, is, and is not, I meet with no proposition that is human affairs; when of a sudden I am surpriz'd to find, that instead of the usual not connected with an ought, or an ought not. This change is imperceptible,

> tion from others, which are entirely different from it.' (T, 3.1.1.11/469-70) observ'd and explain'd; and at the same time that a reason should be given, for what seems altogether inconceivable, how this new relation can be a deducexpresses some new relation or affirmation, 'tis necessary that it shou'd be but is, however, of the last consequence. For as this ought, or ought not

about all other possible worlds (about what is necessary) built in. associated with the name by a speaker - and so there is no mechanism whereby This, I believe (although I also believe what I believe to be contentious) is because to determine its intension. So, in a trivial way, proper names have information the extension there. In short, to determine the extension of a proper name is worlds and what it is like in that possible world plays no part in determining determine the extension of a name in this world is to determine it in all possible the extension of the name may change from world to world. This means that to tions and their referent in a possible world is not determined by a description proper names are non-descriptional - they are not synonymous with descrip-

œ standard, or alternatively the weakest appropriate system (the classical first-order The arguments in the first three subsections below are theorems of the most section 'O' is an operator with informal semantics 'it ought to be the case that' with the informal semantics 'it was at some time in the past the case that' and necessity-style operator, and 'P' and 'G' are sentential operators from tense logic In the above and what follows, 'M' is a predicate letter, 'S' a sentence letter, \Box a 'in the future it will always be the case that', respectively. Towards the end of this

confusion in the myth. that vampires are supposed to be both dead and immortal shows up a certain

rather than 'will never die', though I'm sympathetic to the thought that the fact

For the sake of argument, I'll assume that vampires are both dead and alive ('the

living dead'), and take the best gloss on 'is immortal' to be 'will always be alive'

9.

10. enshrined in the natural deduction rules for first-order logic; should anyone that my readers' intuitions are such that the respectability of the other theses Adam Elga suggested to me that someone might take my section 4 to show, not reject these, they are welcome to the inverted version of the argument. to emphasize just how radical it is: restrictions on universal generalization are to have fallen in with a bad crowd. But though one might take that line, I want would rub off on Hume's Law, and not that the others would suddenly be seen riers are false too. I suppose he's right – they might, and I've been assuming that Hume's Law was in good company, but that the other three inference bar-

Also By Charles R. Pigden HUME ON MOTIVATION AND VIRTUE (editor)

The f

Hume on Is and Ought

Edited by

Charles R. Pigden
University of Otago, New Zealand

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To my mother JEAN K. PIGDEN With love and thanks

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