

Hume's Sceptical Texts 1: Induction

(*Treatise* 1.36, *Enquiry* 4 and 12.22-3)

1.1 Hume is committed to inductive science

Hume's *overall* attitude to induction cannot plausibly be described as "sceptical", in either the *Treatise*, the *Enquiry*, or his other works. For example:

- The subtitle of the *Treatise* describes it as "An Attempt to introduce the experimental Method of Reasoning into Moral Subjects".
- Hume argues in both the *Treatise* and the *Enquiry* that causal (inductive) inference is our only basis for inference to the unobserved.¹
- Many arguments in the *Treatise* and in Hume's other works (e.g. Essays on politics, economics etc.) are – not surprisingly in view of the above – inductive. In particular, "experiments" are mentioned in seven paragraphs of *Treatise* 1.3.8, thirteen paragraphs of 1.3.12, and sixteen paragraphs of 2.2.2!
- *Treatise* 1.3.12 develops a theory of "probability of causes", while 1.3.13 discusses "unphilosophical probability" – thus Hume clearly distinguishes between good and bad inductive inference, which is inconsistent with considering all inductive inference as epistemically worthless.
- In the *Treatise* Hume gives "rules by which to judge of causes and effects" (T 1.3.15) to guide our discovery of causal relations, and also advises us to search for hidden causes (T 1.3.12.5) – again, such normative guidance of inductive enquiry is inconsistent with thoroughgoing scepticism.
- In the *Enquiry*, Hume again recommends probable inference and basing probable judgements on past experience: "One, who in our climate, should expect better weather in any week of JUNE than in one of DECEMBER, would reason justly, and conformably to experience ... A wise man ... proportions his belief to the evidence." (E 10.4 – see also E 6).
- In the *Enquiry* Hume recommends searching for general laws (E 4.12) and hidden causes (E 8.13, copied from T 1.3.12.5); reasoning from analogy (E 9.1); and norms of proportionate inference (E 11.12-13). He also gives hints on experimental method (E 9.5 n. 20).

1.2 The *Treatise* argument is not intended as sceptical

In the *Treatise*, Hume never describes his treatment of induction as *sceptical*, and the famous argument of T 1.3.6 appears to be a stage in the quest to identify the impression of necessary connexion, which began at T 1.3.2.11 and finally bears fruit at T 1.3.14.20:

"Shall we ... rest contented with these two relations of contiguity and succession, as affording a compleat idea of causation? By no means. An object may be contiguous and prior to another, without being consider'd as its cause. There is a NECESSARY CONNEXION to be taken into consideration" (T 1.3.2.11)

"We must, ... beat about all the neighbouring fields, ... leave the direct survey of this question concerning the nature of that *necessary connexion*, which enters into our idea of cause and effect; and endeavour to find some other questions, ... which will perhaps afford a hint, that may serve to clear up the present difficulty." (T 1.3.2.13)

"Tho' the several resembling instances, which give rise to the idea of power, ... can never produce any new quality *in the object*, which can be the model of that idea, yet the *observation* of this resemblance produces a new impression *in the mind*, which is its real model. For after we have observ'd the resemblance in a sufficient number of instances, we immediately feel a determination of the mind to pass from one object to its usual attendant, and to conceive it in a stronger light upon account of that relation.

¹ "the only [relation], that can be trac'd beyond our senses, and informs us of existences and objects, which we do not see or feel, is causation" (T 1.3.2.3); "All reasonings concerning matter of fact seem to be founded on the relation of *Cause and Effect*. By means of that relation alone we can go beyond the evidence of our memory and senses." (E 4.4).

This determination is the only effect of the resemblance; and therefore must be the same with power or efficacy, whose idea is deriv'd from the resemblance. ... Necessity, then, is the effect of this observation, and is nothing but an internal impression of the mind, or a determination to carry our thoughts from one object to another. Without considering it in this view, we can never arrive at the most distant notion of it, or be able to attribute it either to ... causes or effects." (T 1.3.14.20)

The role of T 1.3.6-7 is to identify *constant conjunction* and *customary inference* as key, having excluded "reason" as a potential ground of inference:

"Thus in advancing we have insensibly discover'd a new relation betwixt cause and effect, when we least expected it, and were entirely employ'd upon another subject. This relation is their CONSTANT CONJUNCTION." (T 1.3.6.3).

"When ev'ry individual of any species of objects is found by experience to be constantly united with an individual of another species, the appearance of any new individual of either species naturally conveys the thought to its usual attendant." (T 1.3.6.14).

"Reason can never satisfy us that the existence of any one object does ever imply that of another; so that when we pass from the impression of one to the idea or belief of another, we are not determin'd by reason, but by custom or a principle of association." (T 1.3.7.6).

1.3 Later hints of scepticism in the *Treatise*

At T 1.3.12.20, while urging acceptance of his "abstruse" theory of the "probability of causes", Hume seems to acknowledge the potential sceptical significance of T 1.3.6:

"Let men be once fully perswaded of these two principles, *That there is nothing in any object, consider'd in itself, which can afford us a reason for drawing a conclusion beyond it*; and, *That even after the observation of the frequent or constant conjunction of objects, we have no reason to draw any inference concerning any object beyond those of which we have had experience*; I say, let men be once fully convinc'd of these two principles, and this will throw them so loose from all common systems, that they will make no difficulty of receiving any, which may appear the most extraordinary." (T 1.3.12.20)

In the Conclusion of Book 1, the dependence of induction on custom and the enlivening of ideas is the first (but by no means the most serious) sceptical concern that Hume raises:

"After the most accurate and exact of my reasonings, I can give no reason why I shou'd assent to it; and feel nothing but a *strong* propensity to consider objects *strongly* in that view, under which they appear to me. Experience is a principle, which instructs me in the several conjunctions of objects for the past. Habit is another principle, which determines me to expect the same for the future; and both of them conspiring to operate upon the imagination, make me form certain ideas in a more intense and lively manner, than others, which are not attended with the same advantages. Without this quality, by which the mind enlivens some ideas beyond others (which seemingly is so trivial, and so little founded on reason) we cou'd never assent to any argument, nor carry our view beyond those few objects, which are present to our senses." (T 1.4.7.3)

1.4 The *Enquiry* argument is sceptical, but ...

In the *Enquiry*, Hume's chapter on induction is entitled "Sceptical doubts concerning the operations of the understanding". Moreover the argument proceeds by *first*, identifying extrapolation from observed to unobserved (often called the *Uniformity Principle*) as essential for inference to the unobserved (E 4.16); and *then* showing that this cannot be supported by *intuition*, *sensation*, *demonstration*, or *probable argument*. This seems to be clearly sceptical in approach.

"These two propositions are far from being the same, *I have found that such an object has always been attended with such an effect*, and *I foresee, that other objects, which are, in appearance, similar, will be attended with similar effects*. ... The connexion between these propositions is not intuitive. There is

required a medium, which may enable the mind to draw such an inference, if indeed it be drawn by reasoning and argument.” (E 4.16)

“It is allowed on all hands, that there is no known connexion between the sensible qualities and the secret powers; and consequently, that the mind is not led to form such a conclusion concerning their constant and regular conjunction, by any thing which it knows of their nature.” (E 4.16)

“That there are no demonstrative arguments in the case, seems evident; since it implies no contradiction, that the course of nature may change” (E 4.18)

“all our experimental conclusions proceed upon the supposition, that the future will be conformable to the past. To endeavour, therefore, the proof of this last supposition by probable arguments ... must be evidently going in a circle, and taking that for granted, which is the very point in question.” (E 4.19)

In the final section of the *Enquiry*, Hume’s argument from Section 4 is put into the mouth of the sceptic:

“The sceptic ... seems to have ample matter of triumph; while he justly insists, that all our evidence for any matter of fact, which lies beyond the testimony of sense or memory, is derived entirely from the relation of cause and effect; that we have no other idea of this relation than that of two objects, which have been frequently conjoined together; that we have no argument to convince us, that objects, which have, in our experience, been frequently conjoined, will likewise, in other instances, be conjoined in the same manner; and that nothing leads us to this inference but custom or a certain instinct of our nature; which it is indeed difficult to resist, but which, like other instincts, may be fallacious and deceitful. While the sceptic insists upon these topics, he shews his force, or rather, indeed, his own and our weakness; and seems, for the time at least, to destroy all assurance and conviction.” (E 12.22)

1.5 ... in the *Enquiry*. Hume explicitly answers the sceptic

Having put his own argument into the mouth of the sceptic (as above), Hume then gives an answer which appears (to me, at any rate), to be quite persuasive: (For a full explanation of what I take this answer to be, see §1 of https://davidhume.org/scholarship/papers/millican/2012_Induction.pdf.)

“For here is the chief and most confounding objection to excessive scepticism, that no durable good can ever result from it; while it remains in its full force and vigour. We need only ask such a sceptic, *What his meaning is? And what he proposes by all these curious researches?* ... a PYRRHONIAN cannot expect, that his philosophy will have any constant influence on the mind: Or if it had, that its influence would be beneficial to society. On the contrary, he must acknowledge, if he will acknowledge any thing, that all human life must perish, were his principles universally and steadily to prevail. All discourse, all action would immediately cease; and men remain in a total lethargy, till the necessities of nature, unsatisfied, put an end to their miserable existence. ... all his objections ... can have no other tendency than to show the whimsical condition of mankind, who must act and reason and believe; though they are not able, by their most diligent enquiry, to satisfy themselves concerning the foundation of these operations, or to remove the objections, which may be raised against them.” (E 12.23)

1.6 Favouring the *Enquiry* on induction

In view of the above, it is far easier to explain Hume’s attitude to induction based on the *Enquiry* than on the *Treatise* – he says so much more about it there, at far greater length, and explicitly faces up to the sceptical concerns. But it also seems plausible that his overall attitude to induction is largely the same in both works – for there is little to indicate a serious change in fundamental orientation – so even if discussing induction with primary reference to the *Treatise*, it makes sense to appeal to the *Enquiry* for clarification.²

² Miriam McCormick, “A Change in Manner: Hume’s Scepticism in the *Treatise* and the first *Enquiry*” (*Canadian Journal of Philosophy* 29 (1999), pp. 431-47) does not specifically discuss Hume on induction, but argues that the overall sceptical attitude of *Treatise* Book 1 Part 4 is (despite some appearances to the contrary) virtually identical to the “mitigated scepticism” (E 12.24) which is expressed much more clearly in the *Enquiry*. This claim is far less plausible, however, with regard to Hume’s “scepticism with regard to reason” of *Treatise* 1.4.1, which looks very distant from the mitigated scepticism of the *Enquiry*.