

Ideas and Explanation in Early Modern Philosophy*

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Abstract

Malebranche argues that ideas are representative beings existing in God. He defends this thesis by an inference to the best explanation of human perception. It is well-known that Malebranche's theory of vision in God was forcefully rejected by philosophers such as Arnauld, Locke, and Berkeley. However, the notion that ideas exist in God was not the only controversial aspect of Malebranche's approach. Another controversy centered around Malebranche's view that ideas are to be understood as posits in an explanatory theory. Opponents of this approach, including Arnauld and Locke, held that our talk about ideas was not explanatory but instead merely descriptive: we use the word 'idea' to describe phenomena that we observe by reflecting on our own minds. This controversy has not received much attention from scholars, but in the present paper I will show that it was an explicit and important subject of concern for Malebranche, Arnauld, Locke, and Berkeley and that attention to this controversy can illuminate several aspects of these philosophers' work.

For the 17th and 18th century opponents of the 'New Philosophy', one of its most visible identifying features was "the talking of ideas, and running endless divisions upon them" (Browne 1697, 3; cf. Stillingfleet 1697, 273; Sergeant 1697, Epistle Dedicatory).¹ Since their use of the word 'idea' was new and controversial, it is surprising that most early modern philosophers say so little about what they take ideas to be and why we ought to believe in such things. Instead, we frequently find them beginning with remarks like this one from the 1662 Port-Royal *Logic*: "The word 'idea' is one of those that are so clear that they cannot be explained by others, because none is more clear and simple" (*Logic*, 25).²

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1. For a history of opposition to the 'way of ideas' see Yolton 1956.

2. Thomas Reid ([1785] 2002, 174) remarks, "the authors who have treated of ideas, have generally taken their existence for granted, as a thing that could not be called in question."

One early modern philosopher who strikingly stands apart from this approach is Nicolas Malebranche. Malebranche is quite explicit about what ideas are and what reason we have to believe in them. According to Malebranche, ideas are representative beings in God. We are to believe in them on the basis of an inference to the best explanation. The fact to be explained is our ability to perceive external objects. The best explanation of this fact is that we perceive external objects because “the mind surely can see what in God represents created beings . . . provided that God wills to reveal to it what in Him represents them” (SAT, 230).

It is well-known that Malebranche’s theory of vision in God was forcefully rejected by philosophers such as Antoine Arnauld, John Locke, and George Berkeley. However, the notion that the ideas we perceive exist in God and not in our own minds was not the only controversial aspect of Malebranche’s approach. Another controversy centered around Malebranche’s view that ideas are to be understood as posits in an explanatory theory. Opponents of this approach, including Arnauld and Locke, held that our talk about ideas was not explanatory but instead merely descriptive: we use the word ‘idea’ to describe phenomena that we observe by reflecting on our own minds. This controversy, between explanatory and descriptive understandings of ideas, has not received much attention from scholars, but in the present paper I will show that it was an explicit and important subject of concern for many early modern philosophers. I will focus, in particular, on Malebranche, Arnauld, Locke, and Berkeley.

In §1 I provide a more detailed account of Malebranche’s inference to the best explanation. In §2, I show that Arnauld does not merely argue that Malebranche’s explanation fails but rather that the phenomenon in question (our ability to perceive external objects) does not stand in need of explanation in the first place. It is on this basis that Arnauld adopts a descriptivist approach to ideas. In §3, I examine Locke’s attitude to the dispute between Malebranche and Arnauld. It has previously been noticed that Locke appears to position himself on the side of Arnauld, which is puzzling since Arnauld is a direct realist and it is difficult to reconcile any form of direct realism with Locke’s text. I argue that Locke’s agreement with Arnauld is not about the metaphysics of perception at all. Rather, Locke agrees with Arnauld’s descriptivism. Finally, in §4, I argue that this background can help us to make sense of Berkeley’s argument against abstract ideas: Berkeley’s central contention is that talk of abstract ideas is *not* apt for describing what can be introspected. As a result, if abstract ideas are to be introduced, they *must* be introduced as posits of an explanatory theory. But such theories fail to explain the phenomena in question.

1 Malebranche

In *The Search After Truth*, Malebranche introduces his discussion of the nature of ideas as follows:

I think everyone agrees that we do not perceive objects external to us by themselves. We see the sun, the stars, and an infinity of objects

external to us; and it is not likely that the soul should leave the body to stroll about the heavens, as it were, in order to behold all these objects. Thus, it does not see them by themselves, and our mind's immediate object when it sees the sun, for example, is not the sun, but something that is intimately joined to our soul, and this is what I call an *idea* (SAT, 217).

The basic datum, then, is that “We see . . . an infinity of objects external to us.” The explanatory puzzle stems from the fact that these objects are not “intimately joined to our soul” in the way that would be necessary if they were to be immediate objects of thought. The much-ridiculed remark about ‘strolling about the heavens’ may perhaps be meant to suggest that the stars’ distance from me is an impediment to their being ‘intimately joined’ to my soul, or it may merely be a rhetorical way of denying that such joining occurs.³

In the very next paragraph, Malebranche mentions some additional puzzles about perception:

it often happens that we perceive things that do not exist, and that even have never existed . . . When a madman or someone asleep or in a high fever sees some animal before his eyes, it is certain that what he sees is not nothing . . . though . . . the animal [has] never existed (217).

According to Malebranche “To see nothing is not to see; to think of nothing is not to think” (320). Hence, when the external object perceived is not intimately joined to the mind (and so is not immediately perceived), or even when the object does not exist, there must be something we (immediately) perceive, and that something is the idea.⁴

There is, according to Malebranche, an even more puzzling phenomenon that must be explained, having to do not with sensory perception but with voluntary thought. Malebranche writes:

It is certain, and everyone knows from experience, that when we want to think about some particular thing, we first glance over all beings and then apply ourselves to the consideration of the object we wish to think about. Now, it is indubitable that we could desire to see a particular object only if we had already seen it, though in a general and confused fashion. As a result of this, given that we can desire to see all beings, now one, now another, it is certain that all beings are present to our mind (232).

The problem here is a version of Plato's Paradox of Inquiry: “[a person] cannot search for what he knows—since he knows it, there is no need to search—

3. Arnould clearly understands the remark in the first way (TFI, ch. 4; see Ndiaye 1991, 116–120), but in his response Malebranche appears to say that he intended it in something like the second way (Malebranche [1684] 1958–1978, 94–96). For further discussion of Malebranche's line of thought here, see Yolton 1984, 47–51, 65–66; Jolley 1990, 85–86; Nadler 1992, 67–79; Lennon 1992; Hight 2008, 61–64.

4. On this line of argument, see Nadler 1992, 79–92.

nor for what he does not know, for he does not know what to look for” (Plato *Meno* 80e). In the case that concerns Malebranche, the paradox is perhaps even more troubling: how can one want or choose to think about (e.g.) horses if one is not *already* thinking about horses? Isn’t such a desire or choice itself a thought about horses?⁵

According to Malebranche, there are just five possible explanations of these phenomena:

either (a) the ideas we have of bodies and of all other objects . . . come from these bodies or objects; or (b) our soul has the power of producing these ideas; or (c) God has produced them in us while creating the soul or produces them every time we think about a given object; or (d) the soul has in itself all the perfections it sees in bodies; or else (e) the soul is joined to a completely perfect being that contains all intelligible perfections, or all the ideas of created beings (SAT, 219).

Malebranche proceeds to examine these alternatives one by one, ultimately arriving at the conclusion: “I do not think there is any plausibility in any of the other ways of explaining these things, and this last way [vision in God] seems more plausible” (235).⁶

A great deal more could be said regarding the details of Malebranche’s vision in God, but for present purposes the key point is just this: Malebranche posits a class of entities, ideas, in order to explain how we can perceive things that are not ‘intimately joined’ to the soul and may not even exist. He then argues that, in order to do the necessary work, these ideas must be understood as parts or aspects of the divine essence.⁷ Thus Malebranche argues by inference to the best explanation that we see external objects by “see[ing] what in God represents created beings” (230). These divine representations are what Malebranche calls ‘ideas’.

2 Arnauld

The dispute between Malebranche and Arnauld about the nature of ideas was a major philosophical event in the late 17th century. The debate was notoriously heated, frequently involving personal attacks and disagreements about just what was at stake (Pyle 2003, 83–89).⁸ Arnauld characterizes the fundamen-

5. For further discussion of this argument, see Nadler 1992, 141–143.

6. For further discussion of this ‘argument by elimination,’ see McCracken 1983, 61–70; Nadler 1992, 108–140; Schmaltz 2000, 69–71; Pyle 2003, 50–57; Priarolo 2017, 145–149.

7. On Malebranche’s argument for the claim that in order to play these explanatory roles ideas must be independent of our minds, see Nadler 1992, 34–44; Hight 2008, §§3.1–3.3.

In the Tenth Elucidation, Malebranche (drawing heavily on Aquinas) engages in some fancy footwork to try to reconcile his doctrine with divine simplicity (SAT, 624–626). For detailed discussion of the relationship between Malebranche’s theory of ideas and the commitments of traditional philosophical theology, see Cook 1998; Pessin 2004; Priarolo 2017, 157–165.

8. For an overview of the dispute, see Moreau 2000. Walter Ott (2017, 155n44) surely exaggerates when he writes, “Only at isolated moments [in the Malebranche-Arnauld dispute]

tal point of disagreement between himself and Malebranche as a disagreement over whether ideas are (as Malebranche thinks) ‘representative beings’ “actually distinct from our mind as well as from the [external] objects” (TFI, 63), or whether (as Arnauld thinks) “the *idea* of an object and the *perception* [i.e., act of perceiving] of that object [are] the same thing” (65). In other words, Malebranche’s ideas are *perceptual intermediaries* standing between the mind and the (external) object, and Arnauld denies that there are any such perceptual intermediaries. Arnauld thus endorses a form of direct realism and Malebranche endorses a form of representationalism.⁹

In his first response to Arnauld’s critique, Malebranche gives a very different account of the question at issue:

what is the issue at hand? Mr. Arnauld insists that the modalities of the soul are essentially representative of objects distinct from the soul; and I maintain that these modalities are nothing but sensations, which do not represent to the soul anything different from itself (Malebranche [1684] 1958–1978, 50; translation from Nadler 1989, 82).

Malebranche denies that any mode of the mind is ‘essentially representative’ and therefore denies that any mode of the mind could be an idea. Arnauld, on the other hand, takes our perceptual acts to be essentially representative of their objects (in a sense to be explained below).

Although Malebranche and Arnauld give different accounts of what their most important disagreement is, they certainly disagree on both of these issues.¹⁰ However, as Arnauld clearly saw, these disagreements are both manifestations of a deeper, methodological divide between them. Chapter one of *On True and False Ideas* therefore outlines Arnauld’s philosophical method, enumerating seven rules. Of these, rules three and five are of central importance for us:

The third [rule] is not to seek reasons *ad infinitum*, but to stop when we get to what we know to be the nature of a thing, or what we know with certainty to be a quality of it. One must not ask why extension is divisible, for example, or why the mind is capable of

does one catch something worthwhile. On the whole reading these texts is a dismal experience, like reading unedited comments on a political blog.” Nevertheless, the debate is certainly not a model of charity or mutual understanding in philosophical exchange.

9. It is widely held that Arnauld endorses some form of direct realism, though there is disagreement over the details. See Cook 1974, 1991; Radner 1976; Nadler 1989; Hight 2008, §3.5; Pearce 2016. Some scholars have questioned whether Arnauld really (consistently) endorses direct realism. See Hoffman 2002; Van Cleve 2015; Ott 2017, §6.4.

Steven Nadler (1992, 1994), revising his own previous view (Nadler 1989, ch. 3), has questioned the traditional interpretation of Malebranche as a representationalist. For criticism of Nadler’s (new) interpretation on this point, see Pyle 2003, 71–73.

10. Nadler 1989, 81–88 argues that, at least for Arnauld, these are in fact one and the same issue, since Arnauld assumes that all modifications of the mind must be its acts or operations, so that if an idea is a mode of the mind then it is an act of the mind, i.e., a perception.

thought, for it is the nature of extension to be divisible, and that of mind to think.

...

The fifth is not to confuse questions which must be answered by providing a formal cause with those which require an efficient cause, and not to ask for the formal cause of a formal cause—something that is the source of many errors—but only for its efficient cause. An example will help us make this clearer. If I am asked why this piece of lead is round, I can reply by giving the definition of roundness, i.e., by providing the formal cause . . . But if one continues to ask how it comes about that the surface of the lead is as I have described it, how it comes about that it is not shaped as it would be if the lead were a cube, then a Peripatetic will seek another formal cause, saying that it is because the lead has received a quality called roundness which has been drawn from the depths of its matter in order to make it round, and that it does not have any other quality which would make it a cube. But good sense requires us to reply by providing an efficient cause, by saying that the exterior surface of this piece of lead is due to its having been melted down and thrown into a hollow mould whose concave surface made the lead's surface convex (TFI, 50–51, translation corrected).

The key notion here is the distinction between formal and efficient causation. The formal cause of the lead's roundness is *what it is about the lead that makes it count as round*. The efficient cause is the chain of events that resulted in the lead's having that feature. Arnauld's claim, in rules three and five, is that there are no formal causes of formal causes: when one reaches a formal cause, one has reached a kind of explanatory bedrock, and explanations must come to an end.

This is, however, only *a kind of* explanatory bedrock: another kind of explanatory enterprise can continue, namely, efficient causal explanation. Thus once one knows the nature of roundness, it is nonsensical to ask, further, for the nature of the nature of roundness, but one can very well still ask how it came about that a particular sample of lead possessed that particular nature, i.e., was round.

Chapter two of *On True and False Ideas* applies these considerations to the nature of the mind and its ideas. According to Arnauld, the mind is by nature a thinking substance, hence by his rules it is nonsensical to ask why the mind thinks (52–53). Of course, the question why the mind thinks has an efficient causal interpretation, on which it is a question about why a mind (i.e., a thinking thing) exists, in which case it is perfectly legitimate. The question that is ruled out is, *what is it about the mind that makes it count as thinking?* What makes something a mind is that it thinks, so the question what makes a mind think is, according to Arnauld, nonsensical.

The same principles are applied by Arnauld to individual ideas. Arnauld adopts a Cartesian substance-mode ontology, explaining the difference between substances and modes as follows:

The changes which occur in simple substances do not cause them to be something different from what they are, but only to be in some other way than they were. And this must be what distinguishes substances from modes, or ways of being, which can also be called modifications. But true modifications cannot be conceived without conceiving of the substance of which they are the modifications; so if it is my nature to think, and I can think of different things without changing my nature, then these different thoughts can only be different modifications of the thinking which constitutes my nature (TFI, 53; cf. [Logic](#), 30–32).

Just as *being round* is a way of being extended, *thinking about roundness* is a way of thinking. Since thought is the nature of mind, every modification of the mind must be a different way of thinking. Further, these ways of thinking are representational: “just as it is clear that *I think*, it is also clear that I think of something, i.e., that I know and perceive something. For that is what thought is essentially” (TFI, 53). Arnauld even argues that the differences between different modes of thought are *exhausted* by differences in representational content: “we are not aware of anything else in our soul’s thoughts which can change . . . but the perception and knowledge of an object” (TFI, 54; for discussion see Nadler 1989, 165–170). Thus, by his rules, Arnauld concludes that “it is ridiculous to ask how it comes about that our mind perceives objects” and “as regards the formal cause of our perception of objects, *there is no question to be asked*” (TFI, 54, emphasis added). The formal causal question Arnauld here rejects as nonsensical is the question, ‘what is it about this thought that makes it a thought *of roundness*?’ Such a question is absurd, since it is the nature of a thought (idea) to have the representational content it does (cf. Pyle 2003, 76–79).¹¹

These reflections, coming at the beginning of *On True and False Ideas*, form the foundation of Arnauld’s critique of Malebranche.¹² Arnauld’s central complaint is that Malebranche is positing dubious entities in an attempt to explain what needs no explanation.¹³ Regarding his own use of the word ‘idea’, on the

11. Paul Hoffman (2002) characterizes representationalism (indirect realism) as an attempt to answer one or both of the following explanatory challenges: (1) how is it possible that we perceive things as having properties other than those they have? and (2) how is it possible that we perceive things at a distance? The representationalist, Hoffman says, answers one or both of these questions by positing special objects in the mind and claiming that we perceive external objects by perceiving these. Hoffman then goes on to argue that Aquinas, Descartes, and Arnauld are in this sense all representationalists, not direct realists. In his discussion of Descartes and Arnauld, Hoffman identifies a third explanatory challenge which, he says, Arnauld’s theory of ideas is meant to address. This is the questions of “how a particular act of awareness gets a particular [external] object” (173). This entire line of interpretation is mistaken, since Arnauld explicitly disavows any attempt to answer these questions. Since Arnauld rejects the very questions that, according to Hoffman, representationalism is intended to answer, it seems that Arnauld cannot possibly be a representationalist in Hoffman’s sense.

12. For further discussion of Arnauld’s methodological rules and the role they play in the critique of Malebranche, see Kambouchner 1995, 168–173.

13. Andrew Pyle (2003, 84–85) remarks that Malebranche would have characterized Arnauld’s approach to intentionality as “an implicit rejection of the demand for an explanation.”

contrary, Arnauld writes: “I also take the *idea* of an object and the *perception* of that object to be the same thing. I leave to one side whether there are other things that can be called *ideas*. For it is certain that there are *ideas* in this sense, and that they are attributes or modifications of our mind” (TFI, 65). Since “*thought* or *perception* is essentially reflective upon itself ... [so that] I do not think without knowing that I think” (71), I am constantly aware of my ideas in introspection: that is, I am always aware that I am thinking or perceiving, and there is nothing more to the existence of ideas than my thinking or perceiving. When I talk about ideas, in other words, I am merely talking about the thinking or perceiving of which I am reflectively aware.

To summarize, then, the doctrine of *On True and False Ideas* is that I am immediately, introspectively aware of my thinking, and it is the nature of thought to represent (be of or about) an object. When I am thinking of an object I can be said to have an idea of that object. To ask what it is about this thought that makes it be about that object is illegitimately asking after the formal cause of a formal cause. Thinking just is representational and there is nothing more to be said. Talk about ideas is merely a way of expressing the fact—observable in introspection—that we think about various different objects.

3 Locke

Locke was certainly familiar with Arnauld’s writings. Further, Locke commented extensively on the theory of ideas in Malebranche and Malebranche’s English disciple, John Norris. These comments are generally critical in ways that may suggest that Locke intended to be taking Arnauld’s side in the dispute between Arnauld and Malebranche. John Yolton (1975; 1984, ch. 5) has used this fact to argue that Locke, like Arnauld, was a direct realist.

Though much discussed, Yolton’s interpretation has not gained wide acceptance. In general, scholars have found it simply too difficult to render Locke’s text consistent with direct realism.¹⁴ For instance, Locke writes that the mind knows external objects “only by the intervention of the *Ideas* it has of them” (EHU, §4.4.3). Like Malebranche, Locke usually treats ideas as “immediate object[s] of Perception, Thought, or Understanding” (§2.8.8) which stand between the mind and the external object. In the Stillingfleet correspondence Locke explicitly rejects John Sergeant’s view that “as often as your think of your cathedral church ... the very cathedral church at Worcester ... exists in your understanding” (LW, 4:390) and defines ideas as “immediate objects in [one’s] mind, which are not the very things themselves” (4:391). Further, unlike Arnauld (TFI, ch. 6), Locke never gives any guidance as to how these modes of expression could possibly be rendered consistent with direct realism.

I am arguing that Arnauld’s critique of Malebranche in fact involves an *explicit* rejection of this demand, and an argument for the claim that the demand is misplaced.

14. Against direct realist interpretations see McCracken 1983, 132–133; Ayers 1991, vol. 1, chs. 6–7; Hight 2001, 17–24; 2008, §4.1; Yaffe 2004; Newman 2004, 2009; Bolton 2004; Pyle 2013, 33–36.

Why, then, does Locke appear to see himself as an ally of Arnauld against Malebranche? I suggest that it is because Locke, like Arnauld, takes a descriptivist approach to ideas.¹⁵ In this section, I will first provide a textual and contextual defence of my claim that the account of ideas in the *Essay* is intended to be merely descriptive and not explanatory, then I will show that this observation allows us to make sense of Locke’s remarks on Malebranche and Norris without attributing direct realism to Locke.

As is by now well-known, Locke intentionally sets the *Essay* in the context of Baconian natural history, the scientific enterprise of the Royal Society (Yolton 1996, 80–81; Rogers 2004, 2007; Allen 2010).¹⁶ This can be seen in Locke’s mention of several prominent members of the Society in the Epistle to the Reader, and his description of his own role as that of an “Under-Labourer . . . removing some of the Rubbish, that lies in the way of Knowledge” (EHU, 10). It can also be seen in Locke’s explicit description of his project as following the “Historical, plain Method” (§1.1.2), and in his assertion to Stillingfleet that “if [his ‘way of ideas’] be new, it is but a new history of an old thing [i.e., human understanding]” (LW, 4:134–135). Further, it is clear that the *Essay* was received as a contribution to Baconian natural history in the decades following its publication. For instance, in a footnote to his 1732 translation of William King’s *Essay on the Origin of Evil*, Edmund Law refers to the *Essay concerning Human Understanding* as “Mr. Locke’s excellent History of the human mind” (Law 1732, 2:308), and in his 1734 *Philosophical Letters*, Voltaire writes, “After so many thinkers had written the romance of the soul, there came a wise man [Locke] who modestly described its history” (Voltaire [1734] 2007, 42).¹⁷

The project of Baconian natural history was derived from that of the ancient ‘empiric’ school of physicians. These physicians eschewed grand theories of the functioning of the human body or the causes of disease and focused instead on compiling detailed case histories. The aim was to repeat what works and avoid what doesn’t, without seeking deep theoretical understanding (Hankinson 1987).¹⁸

In the same way, the natural historians of the Royal Society, following the program outlined by Bacon ([1620] 2000), sought to compile careful collections of ‘instances’ of observed natural phenomena and draw cautious generalizations from these. Although they were not perhaps so strict in avoiding theorizing as the empiric physicians, they thought it very important to avoid premature or over-ambitious theorizing. We must be particularly cautious to avoid allowing theory to pollute our observations. Thus Thomas Sprat describes the aims and methods of the Royal Society as follows:

15. Descriptivism, in a sense very similar to mine, is also attributed to Locke by Ayers 1991, 1:17–18.

16. For a detailed account of Locke’s own understanding and practice of Baconian natural history, see Anstey 2011.

17. On Locke’s *Essay* as a natural history of the understanding, also see Tomida 2005; Anstey 2011, 223–225.

18. Locke himself authored two unfinished treatises advocating this approach to medicine. The manuscripts are dated 1668 and 1669, respectively, placing them two decades before the completion of the *Essay* (Anstey and Burrows 2009).

The *Society* has reduc'd its principal observations, into one *common-stock*; and laid them up in publique *Registers*, to be nakedly transmitted to the next Generation of Men; and so from them, to their Successors. And as their purpose was, to heap up a mixt Mass of *Experiments*, without digesting them into any perfect model: so to this end they confin'd themselves to no order of subjects; and whatever they have recorded they have done it, not as compleat Schemes of opinions, but as bare unfinish'd Histories . . . For it is certain, that a too sudden striving to reduce the *Sciences*, in their first beginnings, into Method, and Shape, and Beauty; has very much retarded their increase . . . By their fair, and equal, and submissive way of *Registering* nothing, but *Histories*, and *Relations*; they have left room for others, that shall succeed, to *change*, to *augment*, to *approve*, to *contradict* them, at their discretion (Sprat 1667, 115–116).

According to Sprat, it is crucial to the Royal Society's method that observations be transmitted 'nakedly' in a 'mixt mass' and not interpreted or worked into a system (see Rogers 2007, 19–20). This separation of data from theory is crucial because it will enable future natural philosophers to question the conclusions being drawn from the evidence. Thus the Royal Society's registers contain 'bare unfinish'd Histories' rather than 'compleat Schemes of opinions'.

Similarly, William Wotton, describing "*Modern Methods of Philosophizing* when compared with the *Ancient*" (Wotton 1697, 364), writes:

The *New Philosophers*, as they are commonly called, avoid making general Conclusions, till they have collected a great Number of Experiments or Observations upon the Thing in hand; and, as new Light comes in, the old Hypotheses fall without any Noise or Stir. So that the Inferences that are now a-days made from any Enquiries into Natural Things, though perhaps they be set down in general Terms, yet are (as it were by Consent) received with this tacit Reserve, *As far as the Experiments or Observations already made, will warrant* (365).

This is what it means to say that philosophers within the Baconian paradigm construct only cautious generalizations and not grand theories: their 'conclusions' and 'inferences' simply state the inductive expectation that certain features shared by all observed instances are shared also by as-yet-unobserved instances. Such generalizations are held only provisionally, pending further observations. This contrasts with the sort of theorizing that, in an attempt to explain the data, would not merely extrapolate from the data but posit entities of a wholly different and otherwise unknown kind, such as "*Substantial Forms, Occult Qualities* . . . [or] *Sympathies and Antipathies of Things*," all of which "are exploded" by the New Philosophers (364).¹⁹

19. Note that, as Robert Boyle ([1674] 1991, 142–144) convincingly argues, even the corpuscular hypothesis is in this sense merely an inductive generalization rather than an explanatory

This context makes excellent sense of the actual contents of Locke's *Essay*. In the introductory chapter of the *Essay*, Locke writes:

This, therefore, being my *Purpose* to enquire into the Original, Certainty, and Extent of humane knowledge; together, with the Grounds and Degrees of Belief, Opinion, and Assent; I shall not at present meddle with the Physical Consideration of the Mind; or trouble myself to examine, wherein its Essence consists, or by what Motions of our Spirits, or Alterations of our Bodies, we come to have any Sensation by our Organs, or any *Ideas* in our Understandings; and whether those *Ideas* do in their Formation, any, or all of them, depend on Matter, or no (EHU, §1.1.2).

After announcing that he will avoid theorizing about the essence or nature of mind and its relation to matter, Locke goes on to examine and catalogue various states of the mind. Thus the case against innate knowledge and innate ideas which occupies the remaining chapters of book one focuses primarily on arguing that no example of an innate idea or item of innate knowledge has yet been produced: there is no true specimen of such a thing in our register. Book two is then a detailed catalogue or register of ideas, and book four is a catalogue of instances of assent (knowledge and belief). (Book three, on language, was apparently an afterthought, not fitting neatly into the 'method' Locke originally proposed; see §2.23.19.)

In accord with this approach, Locke begins his natural history of ideas (book two) as follows:

EVERY Man being conscious to himself, That he thinks, and that which his Mind is employ'd about whilst thinking, being the *Ideas*, that are there, 'tis past doubt, that Men have in their Minds several *Ideas* (§2.1.1).

He goes on to remark that in defence of the various claims he will make in this book, he "shall appeal to every one's own Observation and Experience" (§2.1.1). The aim, in other words, is to describe and catalogue the ideas observed in introspection in order to draw inductive generalizations about ideas.

In his correspondence with Stillingfleet, Locke confirms that this was his approach in the *Essay*, and rejects Stillingfleet's claim that the *Essay* teaches a new way of reasoning or gaining certainty. Locke writes:

my design being, as well as I could, to copy nature, and to give an account of the operations of the mind in thinking, I could look into nobody's understanding but my own, to see how it wrought . . . All therefore that I can say of my book is, that it is a copy of my own

theory, for the corpuscular hypothesis merely extrapolates from our observations of the motion and interaction of macrophysical bodies to claims about the motion and interaction of bodies too small for us to see. It does not posit any phenomena different in kind from those we directly observe. This is closely related to what Anstey (2011, 157–162) calls the 'Familiarity Condition' in Locke's account of empirical explanation.

mind, in its several ways of operation. And all that I can say for the publishing of it is, that I think the intellectual faculties are made, and operate alike in most men (LW, 4:138–139).

The aim of the *Essay* was not to teach a new method of reasoning, but to describe how “men have always performed the actions of thinking, reasoning, believing and knowing” (4:135).

If this account of Locke’s approach in the *Essay* is correct, it places him firmly in the descriptivist camp: to suppose that Locke, like Malebranche, is introducing ideas as posits in an explanatory theory is to misunderstand the nature of his project and his ‘method of philosophizing’ (as Wotton might say). Instead, like Arnauld, Locke takes it as epistemic bedrock that we have thoughts that are *of* or *about* things, and when we are thinking about something we can be truly said to have an idea of that thing.

Bringing this point of disagreement with Malebranche into focus also helps us to make sense of Locke’s comments on Malebranche and Norris. These comments are found in two sets of notes, both published posthumously: *Remarks on Some of Mr. Norris’s Books* and *An Examination of P. Malebranche’s Opinion*.²⁰ In these texts we find quite explicit support for the interpretation so far developed.

Locke opens the *Remarks* with explicit criticism of the explanatory ambitions of Norris and Malebranche:

THERE are some, who think they have given an account of the nature of ideas, by telling us, “we see them in God,” as if we understood, what ideas in the understanding of God are, better than when they are in our own understandings . . . For what the divine ideas are, we know as plainly, as we know what 1, 2, and 3, is; and it is a satisfactory explanation of what our ideas are to tell us, they are no other than the divine ideas; and the divine essence is more familiar, and level to our knowledge, than any thing we think of. Besides, there can be no difficulty in understanding how the “divine ideas are God’s essence” (Locke [1706b] 1823, §1).²¹

This passage clearly drips with sarcasm, and it clearly aims in part to insinuate that Malebranche and Norris are guilty of the theological error of ‘enthusiasm’, claiming a mystical insight into God’s mind in a way that would violate divine transcendence.²² However, the passage also sets up Locke’s most fundamental difference from Malebranche and Norris, which is a difference in their basic aims. As Locke explains in the next paragraph:

20. On the history of the composition and publication of these texts, see McCracken 1983, 119–122.

21. In quoting both the *Remarks* and the *Examination*, I omit Locke’s footnotes, most of which are citations to Malebranche and Norris.

22. On the extent to which Locke’s critique of enthusiasm may be directed at Malebranche, see Lennon 1993, §11; Jolley 2003; 2007, §3. Berkeley also quite explicitly accuses Malebranche of enthusiasm (DHP, 214 [1734 ed.]).

I am complained of [by Norris] for not having “given an account of, or defined the nature of our ideas”. By “giving an account of the nature of ideas,” is not meant, that I should make known to men their ideas; for I think nobody can imagine that any articulate sounds of mine, or any body else, can make known to another what his ideas, that is, what his perceptions are, better than what he himself knows and perceives them to be; which is enough for affirmations, or negations about them. By the “nature of ideas,” therefore, is meant here their causes and manner of production in the mind, *i.e.* in what alteration of the mind this perception consists; and as to that, I answer, no man can tell (Locke [1706b] 1823, §2).

Here, Locke clearly distinguishes his own project from that of Malebranche and Norris. Locke’s ‘affirmations or negations’ about ideas are based solely on introspection. The kind of account of the nature of ideas Norris demands is, however, something else. As Locke puts it, Norris demands to know the “causes and manner of production [of ideas] in the mind.”

Although Locke does not distinguish between efficient and formal causes here, he clearly has in mind the formal cause: the question is not what chain of events leads to the perception but rather “in what alteration of the mind this perception consists.” Locke further clarifies:

what difference a man finds in himself, when he sees a marygold, and sees not a marygold, has no difficulty, and needs not be inquired after: he has the idea now, which he had not before. The difficulty is, what alteration is made in his mind, what changes that has in itself, when it sees what it did not see before (§2).

The question, again, is the formal causal question, *what is it about this mind that makes it count as seeing a marigold*. Locke openly admits that in his *Essay* he made no attempt to answer this question: it is part of the “Physical Consideration of the Mind” Locke said he would avoid (EHU, §1.1.2).

Against Norris’s (and Malebranche’s) attempt to answer this question, Locke launches a two-pronged attack. First, on the assumption (endorsed by Malebranche and Norris) that the mind is a simple, immaterial substance, it is impossible to answer this question: “no man can give any account of any alteration made in any simple substance whatsoever; all the alteration we can conceive being only of the alteration of compounded substances; and that only by a transposition of parts” (Locke [1706b] 1823, §2). Second, the doctrine of vision in God cannot possibly be construed as an answer to this question. It does not matter whether one sees “the divine idea in the understanding of God, or, as the ignorant think, the marygold in the garden . . . for they are both things extrinsical to the mind, till it has that perception; and when it has it, I desire them to explain to me, what the alteration in the mind is” (§2).

The account of Locke’s disagreement with Malebranche found in the *Examination* is quite similar. Locke begins by noting that:

P. Malebranche having enumerated, and in the following chapters showed the difficulties of the other ways, whereby he thinks human understanding may be attempted to be explained . . . erects this of ‘seeing all things in God’ upon their ruin, as the true, because it is impossible to find a better (Locke [1706a] 1823, §2).

As we have seen, this is an accurate account of Malebranche’s procedure. Locke is quite explicit in rejecting this approach:

[This] argument, so far being only “argumentum ad ignorantiam,” loses all its force as soon as we consider the weakness of our minds, and the narrowness of our capacities, and have but humility to allow, that there may be many things which we cannot fully comprehend (§2).

Locke goes on to complain that “it will very little help to cure my ignorance, that this is the best of four or five hypotheses proposed, which are all defective, if this too has in it what is inconsistent with itself, or unintelligible to me” (§2).

In Locke’s view, to say that the doctrine of vision in God must be true because it is the only way we can explain perception is to assume “that God cannot make creatures operate, but in ways conceivable to us” (§8). According to Locke, this assumption is highly dubious. Indeed, it is Locke’s view that no intelligible explanation of perception has ever been proposed, and probably no intelligible explanation ever will be proposed. In defense of this view, Locke goes on to argue (as he had in the *Remarks*) that vision in God does not provide an intelligible explanation of perception.

Throughout the *Examination*, Locke clearly favors mechanical explanations of perception, but he also clearly recognizes the limits of such explanations. Thus he writes:

if I should say, that it is possible God has made our souls so, and so united them to our bodies, that, upon certain motions made in our bodies by external objects, the soul should have such or such perceptions or ideas, *though in a way inconceivable to us*; this perhaps would appear as true and as instructive a proposition as [vision in God] (§8, emphasis added).

Again, Locke suggests, “the perception we have of bodies at a distance from ours, may be accounted for, as far as we are capable of understanding it, by the motion of particles of matter coming from them and striking on our organs” (§9). But this caveat, *as far as we are capable of understanding it*, is important. In the next section Locke confesses:

Impressions made on the retina by rays of light, I think I understand; and motions from thence continued to the brain may be conceived, and that these produce ideas in our minds, I am persuaded, *but in a manner to me incomprehensible*. This I can resolve only into the good pleasure of God, whose ways are past finding out . . . The ideas

it is certain I have . . . but the manner how I come by them, how it is that I perceive, I confess I understand not (Locke [1706a] 1823, §10, emphasis added; cf. EHU, §4.3.28).

This puzzle about the nexus between mind and body is not the only place where we find ourselves in a permanent state of ignorance, according to Locke. Similar puzzles loom when it comes to the nature of representation:

I shall here only take notice how inconceivable it is to me, that a spiritual, *i.e.* an unextended substance, should represent to the mind an extended figure, *v.g.* a triangle of unequal sides, or two triangles of different magnitudes. Next, supposing I could conceive an unextended substance to represent a figure, or be the idea of a figure, the difficulty still remains to conceive how my soul sees it (Locke [1706a] 1823, §18).

According to Malebranche’s representative theory of perception, the mind sees an external object by seeing an idea that represents it. There are two puzzles here: first, we must make sense of the notion of an idea representing an external object. Second, the mind’s ability to see the idea must somehow be less puzzling or problematic than seeing the external object in the first place, or else no explanatory progress is made.

In stating the first puzzle, Locke emphasizes that the ideas in question are *unextended*. The worry here seems to be that we cannot understand how an unextended object could be like a *picture* of a triangle, and so it is difficult to understand how it could represent a triangle.

It is perhaps a bit surprising to find Locke raising this objection, for extension is a primary quality, and Locke is committed to the claim that ideas of primary qualities resemble their objects (EHU, §2.8.15). There has been considerable puzzlement about how to understand Locke’s resemblance claim,²³ but it seems that, no matter how we understand it, if ideas of extended objects can resemble those objects, then they can pictorially represent them.

This has led some scholars to suggest that Locke endorsed, or at least seriously considered, the view that (at least some) ideas should be identified with brain traces (e.g., Lennon 1993, ch. 5; Jacovides 1999).²⁴ That may be so, but it is not Locke’s central point in this passage.²⁵ The central point is, again, that it is a manifest fact that we perceive (have ideas of) bodies, and yet this fact is deeply unintelligible to us. Malebranche’s doctrine does nothing to make it more intelligible, since we do not understand how Malebranche’s ideas could represent. Since Locke thinks this unintelligibility is unavoidable on any account, we

23. See, e.g., Curley 1972; Jacovides 1999; 2007, 106–108; 2017, ch. 8; Allen 2008, §3; Ayers 2011, 52–55; McCann 2011, 175–179.

24. Ayers (1991, vol. 1, ch. 5) argues on rather different grounds that Locke was agnostic about whether ideas were brain traces.

25. Jacovides (1999, 478) agrees that Locke does not take inconceivability to entail impossibility and that Locke’s ultimate position on the corporeality of ideas is agnostic. Nevertheless, he takes this passage from the *Examination* as evidence that Locke took the possibility of corporeal ideas seriously.

should not assume that Locke means to rule out all of the claims he describes as unintelligible: it may well be that our ideas are immaterial and yet somehow extended, or it may be that our unextended ideas somehow resemble triangles in respect of their triangularity.²⁶ Neither of these alternatives is intelligible to us, but neither is anything else we might possibly say about the matter. What Locke really wants to do, then, is not to rule out these claims but to remain neutral, refraining from extending the understanding beyond its due bounds (cf. McCracken 1983, 130–131; Allen 2010, §4).

Similar remarks apply to the second puzzle. As we have seen, Malebranche says that we can see ideas in God because the soul is intimately united to God. Locke replies: “Intimate union, were it as intelligible of two unextended substances as of two bodies, would not yet reach perception, which is something beyond union” (Locke [1706a] 1823, §18). Again, Malebranche’s theory does nothing to make perception more intelligible.

Locke correctly regards Malebranche’s account of ideas as a hypothesis designed to explain certain data. According to Locke, the key datum in question (our ability to perceive external objects) is permanently inexplicable to us, and the theory of vision in God has done nothing to make it any more intelligible. Locke, for his part, disavows this kind of explanatory theorizing and settles instead for inductive generalizations based on the ideas we directly introspect. Locke, like Arnauld, is a descriptivist.

We are now in a position to see that, although Locke does to some extent follow Arnauld in his criticisms of Malebranche, there are also some important differences between them. These differences stem from their fundamentally different epistemological orientations. Arnauld, as a good Cartesian, holds that the epistemological bedrock consists of ‘true and immutable natures’ grasped by the pure intellect. It is this view that enables him to argue that Malebranche’s question—asking for the formal cause of a formal cause—is illegitimate. Locke makes no such argument. According to Locke, Malebranche’s question is perfectly legitimate but, *like a great many perfectly legitimate questions*, it is unanswerable by us. Thus Arnauld’s descriptivism is born of a kind of primitivism and dogmatism: in Arnauld’s view, the phenomena Malebranche seeks to explain have no explanations because they stand at the foundation of the order of knowledge which mirrors the order of being. That the mind perceives objects is simply a fundamental fact, constituting the very nature of the mind. Locke’s descriptivism, on the other hand, is born out of a kind of skepticism:

26. It is unclear whether Locke’s deep agnosticism here is fully consistent with his own account of intuitive knowledge, since the unintelligibility of this alleged connection might well be taken to amount to a “*perception of the . . . disagreement and repugnancy of . . . Ideas*” (EHU, §4.1.2). This concern forms the basis of Mary Astell’s argument that Locke was mistaken in supposing that his theory allowed for the possibility of thinking matter (Astell [1705] 2013, §§386–393). Locke would presumably respond that failing to understand how there could be a connection is not the same as perceiving a ‘repugnancy’, but it is unclear how Locke can defend the claim that we do not perceive a repugnancy here, since, as Astell points out (§390), Locke must allow that we perceive a repugnancy between the ideas of *sphere* and *cube* although one is not the negation of the other. On Astell’s argument see Squadrito 1987; Broad 2015, §4.1.

we should not attempt to engage in the kind of explanatory enterprise Malebranche attempts because this kind of enterprise is simply beyond the reach of our capacities. The best we can do is to describe and cautiously generalize from what we observe in introspection.²⁷

4 Berkeley

We have so far seen that Malebranche’s theory of ideas—the doctrine of vision in God—is a genuine *theory*, supported on the basis of an inference to the best explanation. This inference was criticized by Arnauld and Locke who, each in different ways, rejected Malebranche’s explanatory enterprise. Arnauld endorsed a form of primitivism, holding that the phenomena stood in no need of explanation; Locke endorsed a form of skepticism (or epistemic humility), holding that the phenomena could not be explained by us. Thus, in their discussions of ideas, both Arnauld and Locke disavowed any claim to explain how perception works, or how ideas represent objects. Instead, their talk of ideas is merely intended to describe what we introspect.

This historical context proves illuminating as to the dialectic of Berkeley’s case against abstract ideas in the Introduction to his *Treatise concerning the Principles of Human Knowledge*. Ian Hacking once commented, “When you read Berkeley’s Introduction, you should be struck by a surprising absence. Berkeley never *argues* that there are no abstract ideas!” (Hacking 1974, 39) This is an exaggeration, but it is nonetheless puzzling that the Introduction contains so little explicit argument for the impossibility of abstract ideas. What is even more puzzling is that the manuscript version contains much more explicit arguments on this point.²⁸ However, when Berkeley is seen as responding to the prior history we have outlined, the strategy pursued in the argument against abstract ideas becomes intelligible.

Both Arnauld and Locke claim that they are merely describing what is observed in introspection. Berkeley therefore puts a great deal of emphasis on the claim that this talk of abstract ideas is not an apt description of anything he can introspect (PHK, Intro §10; see Pearce 2017, 16–22). After making this claim, Berkeley says he will “examine what can be alleged in defence of the doctrine of abstraction” (PHK, Intro §11). And, indeed, what *can* a descriptivist say in the face of a dispute about the phenomena of introspection? As it turns out, both Arnauld and Locke address this question, and they address it in precisely the same way.

In the opening chapter of the Port-Royal *Logic*, Arnauld (with his collaborator Pierre Nicole) considers Hobbes’s denial, in the *Third Objections* to Descartes’s *Mediations*, that he has an idea of God (Descartes [1641] 1984–1991, 127). Arnauld and Nicole write, “if we had no idea of God, in uttering

27. Allen 2010, 253 arrives at a similar conclusion regarding the relationship between Locke and Arnauld.

28. For discussion of the argument for the impossibility of abstract ideas, with attention to the differences between the manuscript and published versions, see Pearce 2017, 22–27.

the name ‘God’ we would conceive only these three letters, ‘G,’ ‘o,’ ‘d.’”²⁹ On this hypothesis, Arnauld and Nicole argue, we would be unable to explain a number of phenomena:

a Frenchman would have nothing more in his mind on hearing the name *Dieu* than when, in entering a synagogue and being entirely ignorant of Hebrew, he heard *Adonai* or *Elohim* uttered in Hebrew.

Moreover, when men such as Caligula and Domitian called themselves God, they would not have committed any impiety since there is nothing in these letters or the two syllables *Deus* which could not be attributed to a man if no idea were connected to them.

...

If we had no idea of God, on what could we base everything we say about God, such as that there is only one, that he is eternal, all powerful, all good, all wise? None of this is contained in the sound “God,” but only in the idea of God connected to this sound.

This is also the reason we refuse to give the name “God” to all the false divinities. It is ... because the idea of a sovereign being connected by usage to this word “God” conforms only to the one true God ([Logic](#), 27).

In introducing his discussion of ideas in book two, Locke likewise appeals to language to show that we possess ideas: “’tis past doubt, that Men have in their Minds several *Ideas*, such as those expressed by the words, *Whiteness*, *Hardness*, *Sweetness*, *Thinking*, *Motion*, *Man*, *Elephant*, *Army*, *Drunkeness*, and others” ([EHU](#), §2.1.1). Further, in introducing the doctrine of abstraction, Locke explicitly appeals to language:

The use of Words then being to stand as outward Marks of our internal *Ideas*, and those *Ideas* being taken from particular things ... the Mind makes the particular *Ideas*, received from particular Objects, to become general ... This is called *ABSTRACTION*, whereby *Ideas* taken from particular Beings, become general Representatives of all of the same kind; and their Names general Names, applicable to whatever exists conformable to such abstract *Ideas* (§2.11.9).

Locke goes on to appeal to (lack of) language as evidence that ‘brutes’ lack the faculty of abstraction: “This, I think, I may be positive in, That the power of *Abstracting* is not at all in [brutes] ... since they have no use of Words, or any other general Sign” (§2.11.10). Thus not only does Locke take the meaningful use of general words to require the possession of abstract general ideas, he even takes the lack of general words as evidence for the lack of abstract general ideas.

In addition to these two passages in the *Essay*, Locke’s *Examination* considers Malebranche’s claim that we have no idea of an angel. Locke writes:

when [Malebranche] says we know not angels, either ‘in themselves or by their ideas, or by consciousness,” what in that place does angel

29. The original French of course employs the four letter French word ‘Dieu’ in the example.

signify? What idea in him does it stand for? Or is it the sign of no idea at all, and so a bare sound without signification? (Locke [1706a] 1823, §50)

Berkeley is faithfully representing his predecessors when he writes:

it is a received opinion that language has no other end but the communicating our ideas, and that every significant name stands for an idea. This being so, and it being withal certain that names, which yet are not thought altogether insignificant, do not always mark out particular conceivable ideas, it is straightway concluded that they stand for abstract notions (PHK, Intro §19).

Both the Port-Royalists and Locke would seem to be committed to this argument (Pearce 2017, 12–15).

What this shows is that the descriptivism of Arnauld and Locke has limits. While Arnauld and Locke both disavow any attempt to explain how the mind perceives, and both claim to be merely describing what is observed in introspection, they nevertheless see a role for ideas in explaining the nature and functioning of language, and their explanations are essentially the same. Further, both appear to be happy to appeal to the explanatory needs of our philosophy of language in response to those, like Hobbes, who would question our possession of certain ideas.

Note that this does not conflict with Locke's Baconian inductivism: Locke holds that we know by reflection—a kind of direct observation—that whenever we make meaningful use of words, or understand words, we have corresponding ideas in our mind. We then extrapolate from this observation to the general conclusion about words and ideas. This, however, leads to a dialectical impasse: Locke is extrapolating from his case to Malebranche's, holding that since whenever he (Locke) uses a word meaningfully there is a corresponding idea, the same must be true of others. However, it would seem that Malebranche is equally entitled to extrapolate from his case to Locke's and deny the existence of the disputed ideas. This is precisely the strategy Berkeley exploits.

The key line of argument in Berkeley's case against abstract ideas is *not* the argument for their impossibility (which, as has been observed, is easily missed in reading the published text). Rather, the key line of argument is this: talk about abstract ideas is not an apt description of anything we can introspect (PHK, Intro §§10, 13–14), hence abstract ideas can be accepted only on the basis of an inference to the best explanation of the phenomena of language (Intro §§18–19).³⁰ However, alternative explanations of those phenomena are available (Intro §§11–12, 14–16, 18), and in fact the theory of language on which the doctrine of abstract ideas is based fails to make sense of the phenomena (PHK,

30. George Pappas (2000, 72) writes, “these explanationist arguments would be strengthened if Berkeley were to add that the points he has raised about language use and communication are the *only* reasons that have been proposed for positing abstract ideas. However, Berkeley does not make such a claim.” On the contrary, in its historical context Berkeley's text is plausibly read as claiming, or at least implying, this very thing.

Intro §§18, 20; see Pappas 2000, 69–73; Pearce 2017, 27–29). Thus Berkeley concludes, “We have, I think, shown the impossibility of abstract ideas . . . and endeavoured to show that they are of no use for those ends to which they are thought necessary. And lastly, we have traced them to the source from whence they flow, which appears to be language” (PHK, Intro §21). What Berkeley aims to show is that belief in abstract ideas is not really based on introspection but rather on the explanatory needs of a certain theory of language. Further, he aims to show that this theory of language fails in its explanatory ambitions.³¹

5 Conclusion

What are ideas, and why should we believe in such things? Malebranche, we have seen, addresses this question directly: ideas are intrinsically representational entities existing in God and we should believe in them because they are required by our best theory of how the mind perceives external objects. Arnauld and Locke reject Malebranche’s explanatory ambitions. Arnauld argues that the question how the mind perceives external objects is illegitimate since it is the nature of mind to think and it is the nature of thought to have an object. Locke argues that the question how the mind perceives external objects, though legitimate, is unanswerable by us: although perception of external objects is manifestly a real occurrence, it is deeply unintelligible to us. Both Arnauld and Locke claim that when they speak of ideas they are not speaking of posits of an explanatory theory but rather of items directly observable in introspection.

Nevertheless, both Arnauld and Locke *do* employ ideas in the explanation of certain phenomena: the phenomena of language. Further, they are willing to appeal to the explanatory work ideas do in the philosophy of language in order to answer objectors who may deny the existence of certain ideas.

One such objector is Berkeley, who denies the existence of abstract ideas, denying that they are accessible to him in introspection. Berkeley recognizes that opponents, such as Arnauld and Locke,³² appeal to the need to explain the phenomena of language as support for abstractionism. However, Berkeley argues that this appeal fails, since the theory of language endorsed by the abstractionists does not succeed in explaining the phenomena in question, and an alternative explanation that does not appeal to abstract ideas is available.³³

31. For detailed exposition of Berkeley’s argument here, see Pearce 2017, chs. 1 and 2.

32. Locke is the only abstractionist Berkeley explicitly references. However, Berkeley’s distinction between the three types of mental operations—one of which may be called ‘abstraction’ “in one sense” and the other two of which “are the proper acceptations of abstraction”—bears a striking resemblance to the discussion of three types of ‘knowledge by parts’ in the Port-Royal *Logic* (PHK, Intro §10; *Logic*, 37–38).

33. I thank Shelley Weinberg for helpful discussion of a previous draft. A version of this paper was presented at the University College Dublin philosophy colloquium in 2017. I thank the colloquium participants—especially Ruth Boeker—for helpful discussion.

Abbreviations

- DHP Berkeley, George. (1713) 2008. *Three Dialogues Between Hylas and Philonous*. In Clarke 2008, 151–242.
- EHU Locke, John. (1690) 1975. *An Essay Concerning Human Understanding*. Edited by Peter H. Nidditch. Oxford: Oxford University Press.
- Logic Arnould, Antoine, and Pierre Nicole. (1662) 1996. *Logic or the Art of Thinking: Containing besides common rules, several new observations appropriate for forming judgments*. Edited and translated by Jill Vance Buroker. Cambridge Texts in the History of Philosophy. Cambridge: Cambridge University Press. French edition: *La Logique ou L'Art de Penser*. 2nd ed. Edited by Pierre Claire and François Girbal. Textes Philosophiques. Paris: J. Vrin, 2012.
- LW Locke, John. 1823. *The Works of John Locke*. 10 vols. London: Thomas Tegg.
- PHK Berkeley, George. (1710) 2008. *A Treatise Concerning the Principles of Human Knowledge*. In Clarke 2008, 67–149.
- SAT Malebranche, Nicolas. (1674–1675) 1997. *The Search after Truth*. Edited and translated by Thomas M. Lennon and Paul J. Olscamp. Cambridge Texts in the History of Philosophy. Cambridge: Cambridge University Press. French edition: *De la Recherche de la Vérité*. In Malebranche 1958–1978b, vol. 1–2.
- TFI Arnould, Antoine. (1683) 1990. *On True and False Ideas*. Translated by Stephen Gaukroger. Classics of Philosophy and Science. Manchester: Manchester University Press. French edition: *Des Vraies et Des Fausses Idées*. Edited by Denis Moreau. Paris: J. Vrin, 2011.

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