Kant's Argument for Absolutism

Recall Kant's argument strategy: there are spatial differences between right and left hands. We want to know what gives a hand one of these spatial features as opposed to another. The reason why a giraffe is taller than a mouse is that the height of the former is greater than the height of the latter. Similarly, what is it about my left hand that makes it a left hand as opposed to a right hand? We'll identify the only viable options for explaining handedness and exclude all but one, Absolutism.

- 1. A hand is left or right either (a) solely in virtue of the *internal* relations among the parts of the hand, or (b) at least partly in virtue of the *external* relations of the hand to other material objects, or (c) in virtue of the *external* relations of the hand to space itself.
- 2. Since the internal relations are the same for right and left, a hand is not left or right solely in virtue of its internal relations,
- 3. A hand is neither right nor left even partly in virtue of its relations to other material objects.
- 4. Therefore, a hand is left or right at least party in virtue of its relation to absolute space.¹

1–3 state the premises of the argument. 4 states the conclusion. The argument is valid. If it is sound, then 4 must be true. Here are the arguments for the premises.

P2. Internalism

Internalists accept 1 and 3, but they rejects 2. They accept that a hand that was all alone in the Universe would still be a right or left hand, but they think that it's being left or right can be explained without looking outside the hand itself. The features of the hand alone, they claim, will make it a right or left one. Hence, one needs no other material objects or space itself to explain these features. Kant raises the following objection:

- a. The internal relations of both the left and right hand are distances between points and angles between lines, e.g., the length of the index finger.
- b. The internal relations of both the left and right hand are identical.
- c. If the internal relations of a right hand make it a right hand, then they cannot be identical to the internal relations of a left hand.
- d. The internal relations of a right hand do not make it a right hand (similarly for the left hand)...(from a-c)

October 22, 2017

¹'Incongruent Counterparts and Higher Dimensions', by James Van Cleve

Our conclusion says that internal relations cannot distinguish right from left handedness. Internalism, then, is false.

P3. Externalism

Externalists accept 1 and 2, but reject 3. They claim that being a left or right hand depends on a relationship to other material objects. Kant raises the following objection:

- a. Suppose that there is a world in which only a hand, H, exists.
- b. Suppose that a body possessing no hands pops into existence.
- c. H can fit only the left or the right wrist.
- d. If H fits the right wrist, H was a right hand before the body popped into existence.
- e. If H fits the left wrist, H was a left hand before the body popped into existence.
- f. H was a right or left hand before the body popped into existence...(from c–e)
- g. H was a right or left hand when no other material object exists...(from f)
- h. H's being a right or left hand is not explained by its relationship to any other material object...(from g)

Our conclusion shows us that Externalism is false; we cannot explain why a hand is right or left by only appeal to relationships with other objects.

Absolutism

There were three candidates for explaining handedness; a right hand is right because of its internal relations, or because of its relationship to other physical objects, or because of its relationships to space itself. Kant argues against the first two options, and so concludes that the final option must be the correct one; absolute space must exist to explain handedness. Thus, Absolutism is true.

A Fourth Dimension?

The existence of higher spatial dimensions may undermine Kant's argument. The concept of higher spatial dimensions may seem peculiar. The space that we experience seems to be three dimensional. The physical objects that we experience have *length*, *width*, and *depth*. It is difficult to conceive an object which is not so extended. Try, for instance, to conceive of a two dimensional object. That also seems impossible. But why is it impossible? Is it because there

2 October 22, 2017

really are no two or four dimensional objects? Or is it because we are limited by the type of creatures we are?

In the novel *Flatland*, we meet creatures who live in a two dimensional space, but who are completely unable to fathom that there is a third dimension. They can move in only two dimensions, e.g., they can move left and right, backwards and forward. But the idea that an object could move up and down is completely alien to them. It would be like the object disappeared in one location and reappeared in a new location. But their inability to conceive of a third dimension—and moving in a third dimension—does not entail that there is no such dimension. Their inability is just that, an inability. In the novel, the creatures eyes are opened to a third dimension.

Likewise, we cannot easily imagine a fourth spatial dimension. Neither can we imagine an object in moving in a fourth dimension. They can move up or down, left or right, backwards or forwards. These seem the only option. If a fourth dimension exist, there would be a fourth dimension within to move. This means an object could vanish before our eyes and reappear somewhere new. But perhaps we struggle to conceive a fourth dimension because of we are limited and not because there is no such thing.

Many do believe there exists a fourth and even higher spatial dimensions. If such higher spatial dimensions exist, then it is unclear whether there really incongruent counterparts. Recall that we defined incongruent counterparts by saying that you cannot align such counterparts via rigid movements, movements which we assumed took place in three dimensions. If higher spatial dimensions exist, then it would be feasible for a right hand to be inverted and turned into a left hand. Such a possibility affects the various options Kant outlined as follows:

Internalism: if the hands can be flipped in a fourth dimension to make them congruent, then right handedness and left handedness cannot be intrinsic properties of the hands.

Externalism: if the hands can be flipped in a fourth dimension to make them congruent, then a hand does not have handedness at all if it exists all alone in the Universes. Thus, Kant's argument against Externalism fails.

Might there be four-dimensional incongruent counterparts?

Absolutism: Kant argued for this position by eliminating Internalism and Externalism. But since the existence of a fourth spatial dimension undermines his argument for Externalism, he cannot claim to have eliminated it.

https://flatland.vhx.tv/packages/flatland-the-movie/videos/flatland-vhxv2

3 October 22, 2017