Phenomenal Concepts and the Explanatory Gap

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Consciousness

- Consciousness: what it is like to be a sentient being.
- The subjective experience of
 - Perception
 - Bodily sensation
 - Imagery
 - Emotions
 - Thought

Explaining Consciousness

Q: Can consciousness be explained in physical terms?

Can neuroscience explain why and how brain processes give rise to consciousness?

The Epistemic Gap

- Let P = complete microphysical truth
- Let Q = a truth about consciousness

Then there is an apparent epistemic gap between P and Q.

Thought-Experiment: Mary

- Mary the colorblind neuroscientist
 - Knows all the physical facts
 - Doesn't know what it is like to see red

- Mary knows P, but can't deduce Q.
 - Epistemic gap between P and Q!

Thought-Experiment: Zombies

- Zombies: physical duplicates of us without consciousness.
- Zombies probably don't exist
- But it seems that zombies are conceivable
 - There's no contradiction in the idea.
- So P&~Q is conceivable.

The Explanatory Gap

Many: the conceivability of P&~Q entails an explanatory gap between P and Q.

- Why, given that P is the case, is Q the case?
- Physical account is epistemically compatible with absence of consciousness, so doesn't wholly explain consciousness.

Responses

- Dualist: infers ontological gap from epistemic gap
 - P&~Q is conceivable and so is possible
- Type-A materialist: denies epistemic gap
 - P&~Q is not conceivable (and not possible)
- Type-B materialist: accepts epistemic gap, denies ontological gap
 - P&~Q is conceivable but not possible.

Type-B Materialism

- Type-B materialist:
 - conceptual dualism: phenomenal concepts
 fundamentally distinct from physical concepts
 - ontological monism: phenomenal properties are identical to (or constituted by) physical properties.
- P⊃Q is an a posteriori necessity
- Many: P*=Q* is an a posteriori identity
 (where P*=physical term, Q*=phenomenal term)

Kripkean Necessities?

- Analogy: Kripkean a posteriori necessities
 - Water=H2O, etc
- This doesn't help
 - All are false at a possible world considered as actual
 - Leads either to dualism or to Russellian "panprotopsychism".
- Type-B materialist needs primitive strong necessities instead.

Phenomenal Concepts

- Alternative strategy: appeal to special features of phenomenal concepts
 - Gap stems from our concepts of consciousness, not consciousness itself
 - These concepts are unique in a way that yields epistemic gap
 - But they still refer to physical properties

Proponents

- Proponents of this strategy include
 - Loar (1990): recognitional concepts
 - Hill (1997): independent conceptual role
 - Perry (2000): indexical concepts
 - Papineau (2002): quotational concepts and others

General Form

- Key: a thesis C about conceptual/psychological features of conscious beings, such that
 - (i) C explains our epistemic situation with respect to consciousness
 - (ii) C is explainable in physical terms
- Not a direct explanation of consciousness.
- Rather, an explanation of the explanatory gap!

Counterargument

I'll argue that no account can simultaneously satisfy (i) and (ii).

- Either:
 - C is not physically explainable or
 - C doesn't explain our epistemic situation.

Key Question

Question: Is P&~C conceivable?

- E.g.: Can we conceive of zombies that don't satisfy C?
 - N.B. No assumption that zombies are possible.
 - Silicon zombies may suffice.
- I'll argue: problems either way.

Master Argument

- (1) Either P&~C is conceivable or it is not.
- (2) If P&~C is conceivable, then C is not physically explicable.
- (3) If P&~C is not conceivable, then C cannot explain our epistemic situation.
- (4) Either C is not physically explicable, or C cannot explain our epistemic situation.

First Horn

- Premise 2: If P&~C is conceivable, then C is not physically explicable
 - Explanatory gap between P and C.
- Analogous to original reasoning:
 - P&~Q conceivable, so e-gap between P and Q.
 - Conceivability is criterial for epistemic gap.
- Phenomenal concepts pose as much of an explanatory gap as consciousness itself!

Argument for Second Horn

- (5) If P&~C is not conceivable, then zombies satisfy C.
- (6) Zombies do not share our epistemic situation.
- (7) If zombies satisfy C but do not share our epistemic situation, then C cannot explain our epistemic situation.
- (3) If P&~C is not conceivable, then C cannot explain our epistemic situation.

Epistemic Situation

- Key premise: Zombies don't share our epistemic situation (P&~E is conceivable)
- Epistemic situation E: includes truth-values and epistemic status of our beliefs, and epistemic connections among them.
- Zombies satisfy E iff their corresponding beliefs have the same truth-values, epistemic status, and epistemic connections.

Zombie Epistemology

Intuitively: if zombies have beliefs at all, they have a less accurate self-conception than we do.

- Arguably: when a zombie says "I am phenomenally conscious", it says something false
 - Zombie eliminativists are correct.

Zombie Mary

- Clearer example: Zombie Mary.
 - When she looks at something red, does she gain knowledge analogous to Mary's?
- No: any knowledge gained is much poorer
 - E.g. indexical knowledge, or know-how
 - No analog of lucid phenomenal knowledge
- So: Zombie Mary's epistemic situation differs from Mary's.

Upshot

- Zombies don't share the epistemic situation of conscious beings
 - They are epistemically impoverished.

- P&~E is conceivable.
- So argument goes through.

Shorter Version

- (1) P&~E is conceivable
- (2) If P&~E is conceivable, then P&~C is conceivable or C&~E is conceivable.
- (3) If P&~C is conceivable, P cannot explain C.
- (4) If C&~E is conceivable, C cannot explain E.
- (5) P cannot explain C or C cannot explain E.

Options for Type-B Materialists

- (1) Accept e-gap between P and C
- (2) Accept e-gap between C and E
 - Back to ungrounded explanatory gaps
 - Phenomenal concepts aren't doing any work.
- (3) Hold that zombies are our epistemic twins (with an analog of consciousness?)
 - Counterintuitive, doesn't capture zombie intuition.
- (4) Deny that zombies are conceivable
 - Type-A materialism

Applying the Dilemma

- Any given account of phenomenal concepts is at best:
 - "thin": physically explicable, but doesn't capture our epistemic situation

or

"thick": captures our epistemic situation, but isn't physically explicable.

Papineau's Account

- Papineau:
 - Phenomenal concepts are "quotational"
 - Concept tokens embed a phenomenal state R.
 - State = R, concept = "R"
 - That experience: R.
- Can be read as either a thin or thick account.

Thin Quotational Concepts

- Work "bottom-up" with physical materials.
 - Neural state N, gets embedded into token "N", or "that state: N".
- We'd expect: mere indexical reference to N.
 - Intrinsic nature of N has no epistemic impact.
 - If different state M is embedded in functional duplicate, we'd expect same epistemic situation.
 - So: no substantive knowledge of N, akin to Mary's knowledge of phenomenal character.
- Doesn't capture our epistemic situation.

Thick Quotational Concepts

- Start "top-down" with conscious state Q.
 - Embed Q into token concept "Q".
- May yield: substantive knowledge of Q
 - But this requires special epistemic features of conscious states.
 - E.g., they are apt for direct acquaintance with intrinsic nature.
- These features are not predictable from physical account.

Other Accounts

- Loar's recognitional concepts
 - Either thin (demonstrative) or thick (substantive knowledge of nature)
- Perry's indexical concepts
 - Thin (Mary's knowledge isn't just indexical)
- Hill's independent conceptual roles
 - Thin (doesn't deliver substantive knowledge)

Conclusion

- There's not just an explanatory gap between physical processes and consciousness.
- There is also an explanatory gap between physical processes and phenomenal concepts.

 So no account of phenomenal concepts can physically explain the explanatory gap.