PHIL 110A
Philosophy: Knowledge & Reality
Paul Thagard

Please turn off and put away all electronics.
What philosophical questions interest you?
Not: unintelligible answers to insoluble problems.

What is Philosophy?
Philosophy: The search for answers to fundamental questions about the nature of knowledge, reality, morality, and the meaning of life.

Epistemology: The philosophical study of the nature of knowledge.

Metaphysics: The philosophical study of the fundamental nature of what exists.

Ethics: The philosophical study of the basis of right and wrong.

Approaches to Philosophy
1. Religious: what fits with doctrines?
2. Historical: what have philosophers said?
3. Analytical: use language & logic to analyze concepts.
4. Phenomenology: study subjective experience and consciousness.

Approaches to Philosophy
5. Natural: use sciences to reach conclusions about knowledge & reality.

But philosophy is not the same as science:
- More general: all knowledge, all existence.
- More normative: how things should be, not just how they are.
Facts vs. Values
How the world is.
Descriptive
Methods:
Observation
Experiment
Theories
Models
Reasoning

How the world ought to be.
Prescriptive, normative.
Ethics, epistemology.

Objective vs. Subjective
Facts
Independent of thinking
True

Opinions
What people think
“True for me”

Discussion Question
What philosophical questions are you most interested in?
Can these be approached objectively?

Argument & Inference
Belief: something you think is true.
Inference: reaching a conclusion.
Argument:
Premises: statements already believed.
Conclusion: belief inferred.
Examples: what inferences have you made recently?
Were they based on arguments?
Sources of Belief

Perception
Testimony
Argument
Inference not based on argument:
  Coherence, emotion, motivation.

Good Arguments

Arguments should:
1. Have true premises.
2. Have a conclusion that follows from the premises.
Kinds of argument: deductive, inductive, abductive.

Deductive Arguments

Deductively valid argument: If the premises are true, then the conclusion has to be true.
No uncertainty.
Example:
  All dogs have four legs.
  Fido is a dog.
  Therefore, Fido has four legs.
**Inductive Argument**
Introduces uncertainty: True premises can lead to false conclusion. Inductive generalization.

Example:
- All Waterloo students I have seen are under 7 feet tall.
- So all Waterloo students are under 7 feet tall.

No validity, but inductive arguments can be strong if they have a large and representative set of examples.

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**Abductive Argument**
Inference to the best explanation.

Example:
- Prof does not show up for class, why?

Evidence: Prof does not show up for class, why?
Hypotheses: prof is lost, sick, dead, drunk, abducted by aliens...

No validity, but abductive arguments can be strong if they accept a hypothesis that explains a full range of evidence better than alternative hypotheses, including evidence that would be surprising if the hypothesis were not true.
Abductive Argument

Domains:
- Interpersonal: behavior -> mental state
- Health: symptoms -> diagnosis
- Law: evidence -> suspect
- Machines: problems -> defect
- Science: experiments -> theory

Abductive Argument

Philosophical applications:
- External world
- Other minds
- God

Discussion Question

What abductive inferences to the best explanation have you made recently?
Were your inferences based on good reasoning that took into account lots of evidence and alternative hypotheses?

Fallacies (bad arguments)

- Circularity (begging the question): assuming what you’re arguing for.
- Wishful thinking: believing something because it makes you happy. Positive illusions, motivated inference, optimism bias.
- False cause: B followed A, so A caused B.
- Only game in town: Only consider one hypothesis.