Remind yourself about philosophical argumentation

Review

- 1. When is the difference between an argument and an assertion?
- 2. What is the difference between an argument and rhetoric?
- 3. What is an argument?
- 4. How many premises does an argument have?
- 5. And how many conclusions?
- 6. What is the standard form of an argument?
- 7. Why do we reconstruct arguments and put them into standard form?

What is the difference between **deduction** and **induction**.

Deductive or inductive?

- Most Beatles songs are slow
- Let It Be is a Beatles song
- Let It Be is slow

- Premier League
 footballers are well
 paid
- Ronaldo is a Premier
 League footballer
- Ronaldo is well paid

Inductive or deductive?

- Hitler had a dog
- Therefore, you ought not to have a dog

1. What are the two ways in which inductive arguments can go wrong?

If you go to London, then you'll see Big Ben. You went to London last week, so you saw Big Ben.

Review

- 1. What is a deductive argument?
- 2. And what is an inductive argument?
- 3. What makes a deductive argument valid?
- 4. And what makes one sound?
- 5. What are the two ways in which inductive arguments can go wrong?



If the dog hears an intruder, the dog will bark

The dog heard an intruder

Therefore, the dog barked

Modus ponens

If p, then q

p

Therefore q



If the dog hears an intruder, the dog will bark.

The dog did not bark.

Therefore, the dog did not hear an intruder





Modus tollens

If p, then q

not q

Therefore not p

If the dog hears an intruder, the dog will bark.

The dog barked

Therefore, the dog heard an intruder





Affirming the consequent

If p, then q

q

Therefore p



If the dog hears an intruder, the dog will bark.

The dog did not hear an intruder

Therefore, the dog did not bark

Denying the the antecedent

If p, then q

not p

Therefore not q

What is a (philosophical) fallacy?

Fallacies

- •Wishful thinking
- Intensional fallacy
- Tu quoque
- Ad hominem
- Hypostatization
- Etymological

- •False dilemma
- Straw man
- Far-fetched
- Gambler's fallacy
- Style over
 - substance
- Converse accident

 Sharp shooter's fallacy

- Amphiboly
- Disregarding
- •Naturalistic fallact
- •False equivalence
- Cum Hoc, Ergo
 Propter Hoc
- tokenism

science

- Complex questions
- Availability

heuristic

anthropomorphism

- Proof surrogate
- Traditional wisdom
- Prophetic fallacy
- Stereotyping
- Misplaced burden of •Ava proof
- Invalid reasoning

- Amphiboly
- Disregarding

science

- Complex question
- Availability

heuristic

anthropomorphism



Fallacy of equivocation

•(P1) A feather is light

•(P2) What is light is not dark

•(C) Therefore, a feather is not dark



Fallacy of equivocation

•(P1) Jane is a cool dudette

•(P2) If you are cool, you can't be warm

•(C) So Jane is cold



Fallacy of composition

•(P1) The great wall of China is made up of small bricks

•(C) Therefore, the great wall of China is a small brick wall



Fallacy of composition

•(P1) Oxygen burns

•(P1) Hydrogen burns

•(C) Therefore, H20 burns





Jumping to conclusions

•(P1) This is the most expensive car in the shop

•(C) Therefore, it's the best and therefore I am going to buy it.



- •(P1) Women are naturally capable of bearing and nursing children
- •(C) Women ought to be the primary care givers of children



- •(P1) Men tend to be aggressive
- •(C) Men ought to join the army



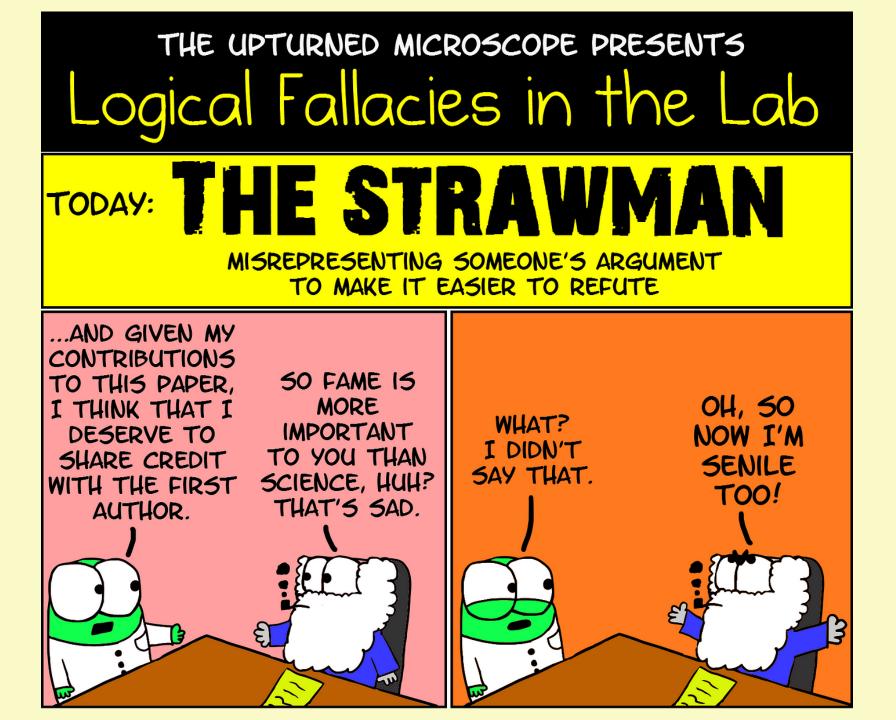
- •(P1) Homosexuality is unnatural
- •(C) Homosexuality is wrong

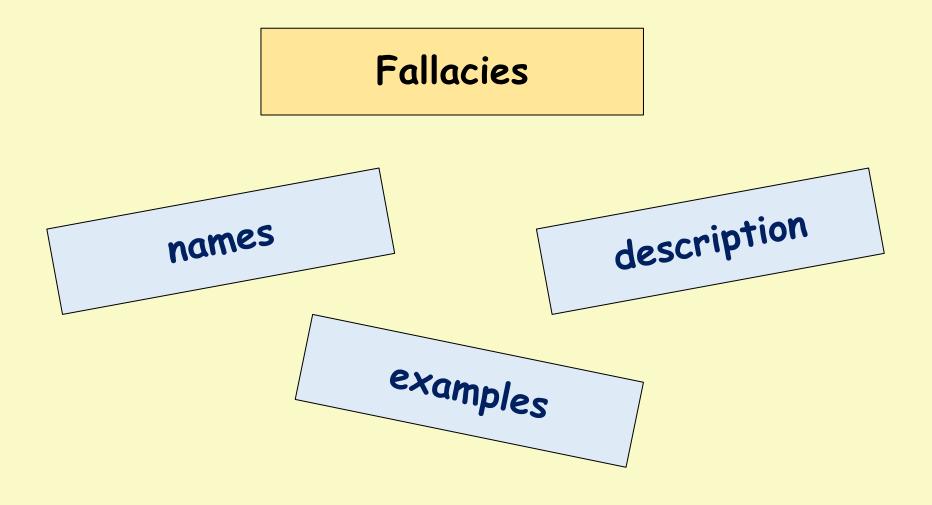
•Conflating what is the case (the

natural) with what ought to be the case

(the moral)

Challenge: Pick three fallacies. Explain it in your words. Then explain it to the rest of the class.





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What is a cognitive bias?

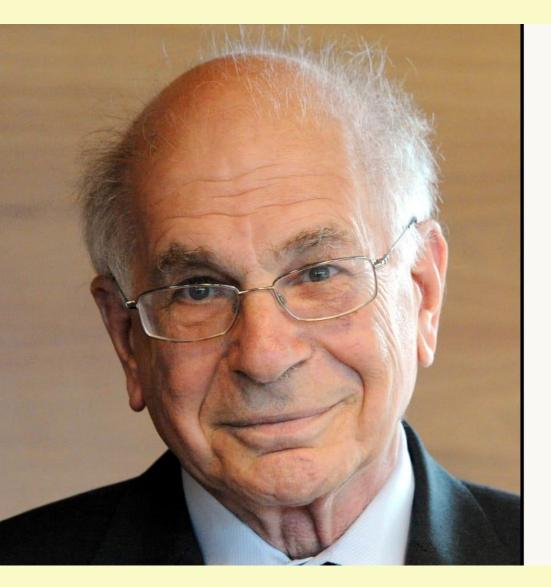
For each bias:

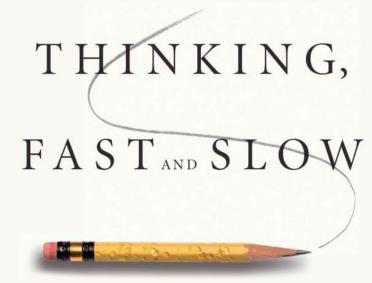
Name of bias

Description of bias

Example(s)

<u>https://www.youtube.com/watch?v=wEw</u> <u>GBIr_RIw&safe=true</u>





DANIEL KAHNEMAN

https://www.youtube.com/watch ?v=DQX8I6pNCKA&safe=true https://www.dailymotion .com/video/x3q4alx