

# Logic of Falsification

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# What is falsification?

- General conclusion from the data always backed by some theories
- Scientist does not only see data
- Observe the pattern of data backed by some theories
- Scientists are always guided by or biased by some existing theories

# What is falsification?

- Scientists general go wrong with limited number of observations
- Scientists never claim the theory is true
- There is always a new observation that can prove the theory wrong
- Theories are likely to be true/probable
- Only interested in critically examining the theory

# Falsification

- Falsification- An observation that shows a theory is false
- Falsified- State of a theory that has been shown to be false
- Scientists are only interested in falsification
- Scientists only use deduction
- Falsification only needs deductive reasoning

# Falsification

- If theory 'T' is true, then we should observe 'O'
- We do not observe 'O'
- So theory T is false