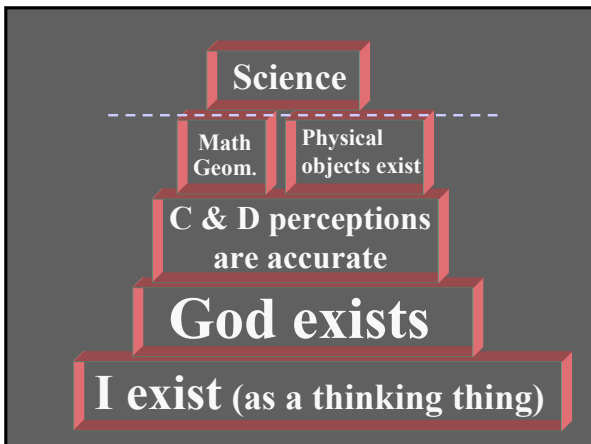
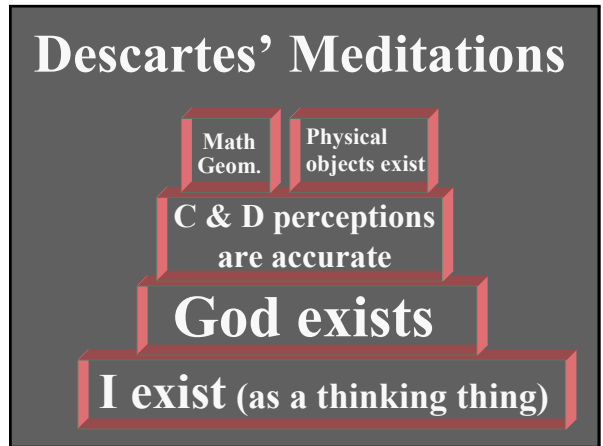


- ### What else do I clearly & distinctly perceive?
- Truths of mathematics & geometry (p. 44)
  - Corporeal things exist (p. 52).
    - Though I may be wrong about (some of) their qualities.
  - I am distinct from my body (p. 51).



- ### Descartes' Dualism
- Reality is made up of two different kinds of stuff ("dualism") --*Mind* and *Matter*.
  - Opposed to a more scientific view: Reality is made up of only one kind of stuff ("Monism")--
    - *Matter*: "Physicalism" or "Materialism".
    - Mind is just a complicated arrangement of matter, not different *in kind*.

## Descartes' Dualism

- How could Descartes show there are two kinds of stuff?
- Descartes proves that mind is distinct from body.
- In Meditation 2, proof of his own existence as a “thinking thing” makes no reference to matter.
- But are they really distinct?

## Descartes' Dualism

- First proof that mind & body are distinct (p. 51):
- Mind is essentially thinking & non-extended.
- Body is essentially non-thinking & extended.
- $\therefore$  Mind  $\neq$  Body.

And I can exist  
without my body!  
(Immortality)



## Descartes' Dualism

- First proof that mind & body are distinct (p. 51):
- Mind is essentially thinking & non-extended.
- Body is essentially non-thinking & extended.
- $\therefore$  Mind  $\neq$  Body.

Is it valid?

## Leibniz's Law

- Gottfried Leibniz (1646-1716)
- If this and that thing are really the *same thing*, then they have to have all the same properties.
- If this and that have different properties, then they are different things.

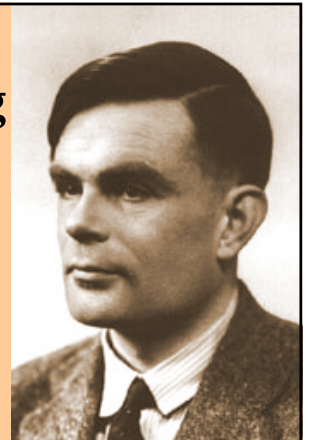


## Descartes' Dualism

- First proof that mind & body are distinct (p. 51):
- *Body is essentially non-thinking & extended.*
- What does that mean?
- Physical things necessarily have a *location* and *take up space*.
- True by definition?
- Do we know body is essentially non-thinking?
- Could computer-robots *think*?

Alan Turing  
(1912-1954)

Inventor of  
computers



## Could computers think?

- “Computing Machinery and Intelligence” (1950)
- **The Turing Test** (a guessing game):
  - By just asking questions and receiving typed answers from a computer and a person hidden from view, could you tell which was which within a certain time limit? If not, the computer passes the test for *thinking*.

## Descartes’ Dualism

- First proof that mind & body are distinct (p. 51):
- *Mind is essentially thinking & non-extended.*
- True by definition?
- Do we know mind is essentially non-extended?
- Can we tell just by reflection?

## Descartes’ Dualism

- First proof that mind & body are distinct (p. 51):
- Mind is essentially thinking & non-extended.
- Body is essentially non-thinking & extended.
- ∴ Mind ≠ Body.

What is true in the premisses doesn’t validly lead to that conclusion.

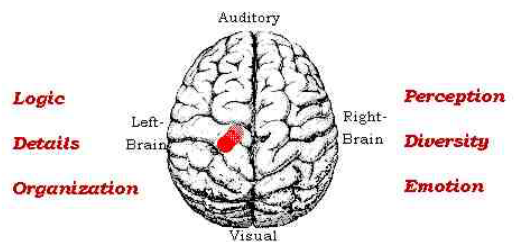
## Descartes’ Dualism

- Second proof that mind & body are distinct (p. 56):
- Mind is essentially indivisible.
- Body is essentially divisible.
- ∴ Mind ≠ Body.

## Descartes’ Dualism

- Second proof that mind & body are distinct (p. 56):
- “Mind is essentially indivisible.”
- Is this true?

## Split-Brain Patients



## Freud's Psychoanalysis



- Three parts of the soul:
- Ego, Id, and Superego
- Conscious/Unconscious
- Psyche = Soul/Mind
- Analysis = Break into Parts.

**Id, Ego  
& Superego**



## Multiple Personalities?

- Not aware of each other.
- Mind has separate parts?
- There are separate minds in the same body?



Ron Bloomberg  
"Split Personality" 1948

## Descartes' Dualism

- Second proof that mind & body are distinct (p. 56):
- Body is essentially divisible.
- Is this true?
- Are time and space infinitely divisible?
- Conceptually?
- Yes.
- Experimentally/Physically?
- We don't know.

## Descartes' Dualism

- My proof that Water & H<sub>2</sub>O are distinct:
- Water is essentially homogeneous.
- H<sub>2</sub>O is essentially non-homogeneous.
- ∴ Water ≠ H<sub>2</sub>O.

**Can I figure these things out just by *thinking* about it?**

**Just because I conceive these as being different doesn't mean they are different.**

## Descartes' Dualism

- Can we tell matter is essentially non-thinking just by "thinking about it"?
- Perhaps my thinking self (mind/soul) depends on my physical self (brain/body) just like the characteristics of water depend on its being H<sub>2</sub>O.