Definition of Intelligence

- key capabilities of intelligent systems
  - Perceive
    * senses
    * sensors
  - Think
    * brain
    * memory
      ◆ database of facts
    * knowledge representation
      ◆ understanding concepts
      ◆ general knowledge representation
    * reasoning via rules/logic/etc.
  - Act
    * human body
    * actuators
- 5 types of intelligence
  - think like a human
    * humanity is the goal
    * focus on information processing rather on action
    * interesting for understanding how humans think
      ◆ biology, neurology, psychology
  - act like a human
    * humanity is the goal
    * not particular useful in engineering
    * can be identified by Turing Test
  - think rationally
    * focus on information processing rather on action
    * assumes that intelligence = rationality
  - act rationally
    * behaviour dependent on concrete goal(survival)
    * assumes that intelligence = rationality
  - adapt to your surroundings
    * capable of adapting to changing environment
    * respond to changes with own interactions with environment

[[Data Science and AI]]