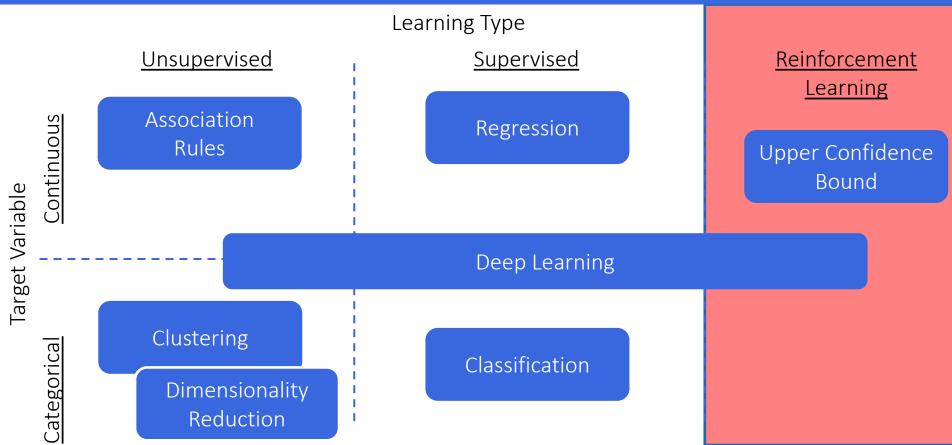
Machine Learning Map

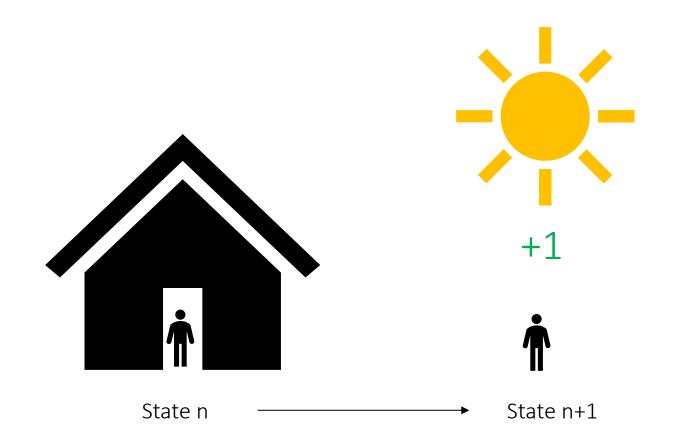


#### Introduction

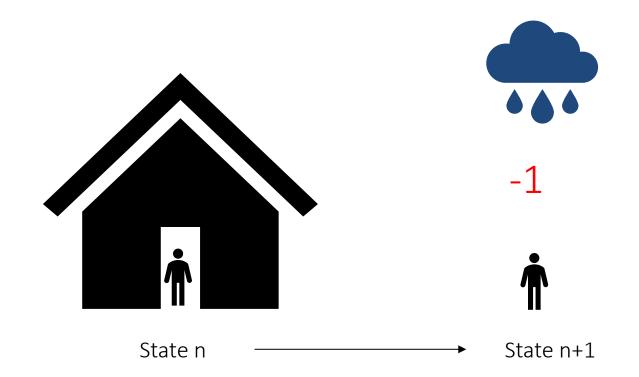
- type of Machine Learning
- components:
  - agent,
  - environment,
  - state,
  - reward
- process involves trial and error
- exploration / exploitation



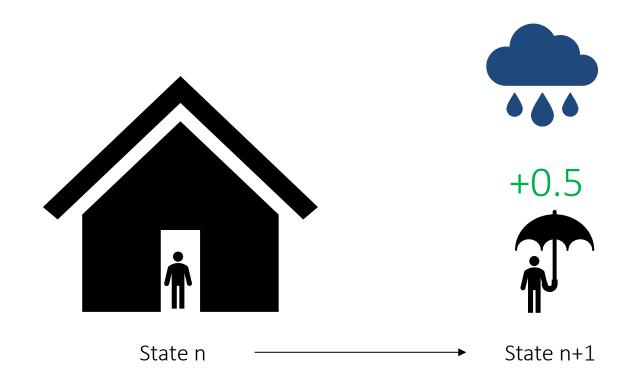
Simple Example



Simple Example



Simple Example



Examples







**Robotics** 



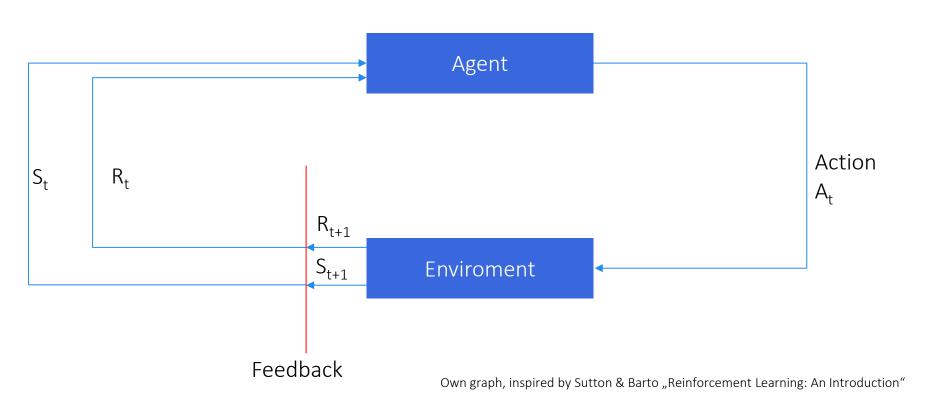
Self-Driving Cars



Source: https://upload.wikimedia.org/wikipedia/commons/thumb/c/cf/Waymo\_self-driving\_car\_front\_view.gk.jpg/220px-Waymo\_self-driving\_car\_front\_view.gk.jpg

Source: https://www.bostondynamics.com/atlas

**Process** 



From RL to Deep RL

