## Social Robotics

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Today: Attempt to understand the concept of a social robot (and the 'big questions' related to it) by reflecting upon the way how social robots are displayed in pop culture.





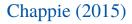








## Why is there no Marvin in our homes?







- What are the pros and cons of learning for social robots? What is the alternative to learning?
- Should there be robotic police officers?





- What's the point in building robots like Ava?
- What's the difference between a human and a robot?
- Is 'being programmed' a valid difference?
  - Robot being programmed to flirt vs. Human being programmed to perceive the robot as flirting
- Is friendship between humans and robots possible?



## Android research by Hiroshi Ishiguro and colleagues (Osaka University)







- Should it be forbidden to abuse robots?
- Should robots have rights?

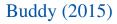




- Can robots be the better humans?
- What's the impact on human relationships if humans prefer robots as friends and partners?
  - A chance for less lonliness, less disappointment etc.?











- Do we really need such robots?
- Can they keep what they promise?
- What kind of entities are these robots?
  - Just tools like smartphones are?
  - Family members?
  - Something in between?

# Conclusions



## 'Broad questions in social robotics'

- What's the purpose of social robots?
- What do social robots reveal about human nature?
- How do social robots affect human behavior, thinking, relationships?
- How to design a social robot for a specific role or task? How to design interactions?
- Do we need regulations that restrict what kind of social robots are allowed?

Next Lecture: Brief introduction to Robo-Ethics as a field.