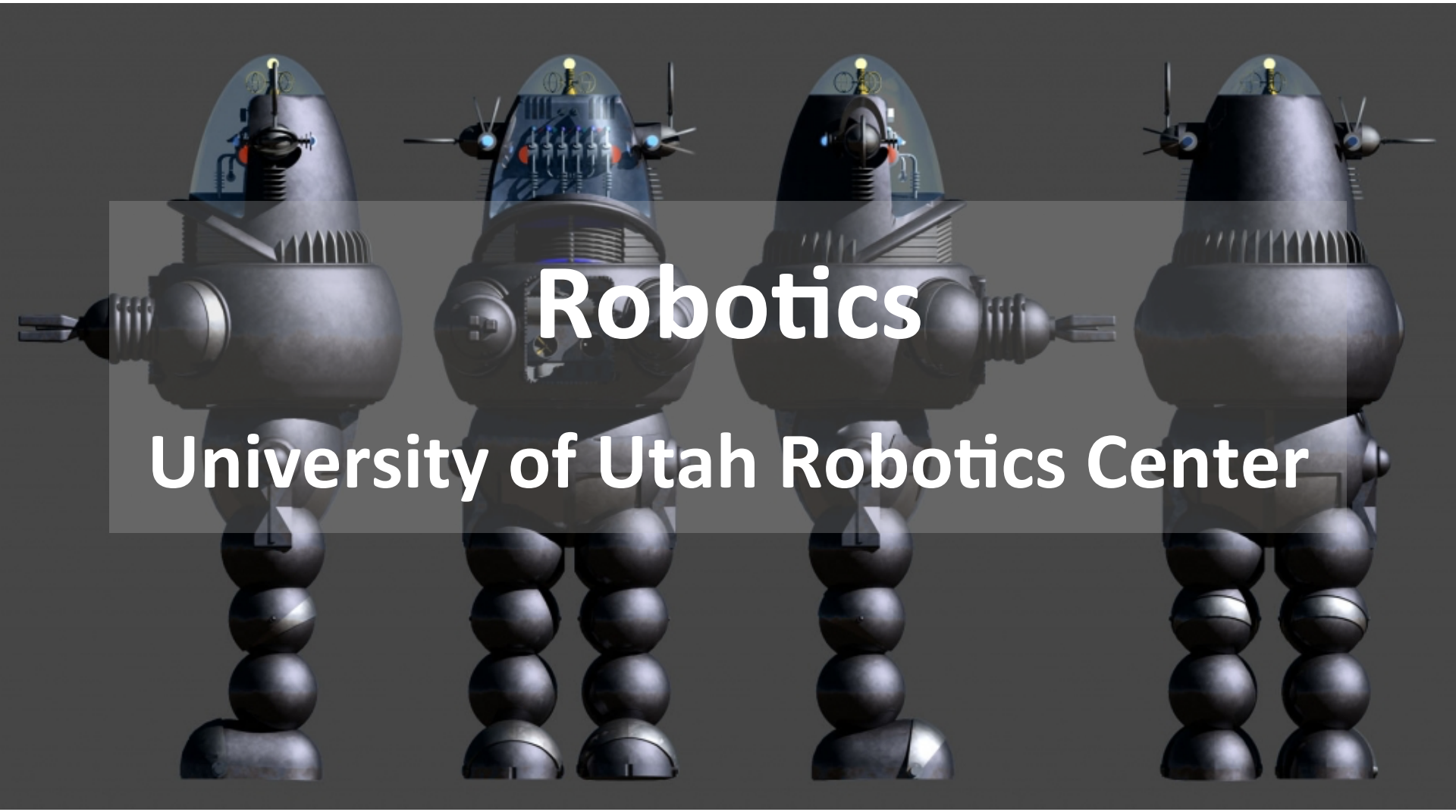

Robotics

University of Utah Robotics Center

What is a Robot?

Are These Robots?

- A camera?
- A light switch?
- A computer
- A car?

Robot Capabilities

A robot generally needs to be able to

- **Sense**: detect the environment around it
- **Plan**: modify its behavior based on what it senses
- **Act**: move itself or manipulate the environment

Why Have Robots?

Why Have Robots?

Dirty, Dangerous, and Dull

- Dirty: Sewer pipe inspection, mining
- Dangerous: Bomb disposal, space exploration
- Dull: Cleaning, assembly lines