

Computer Science 1401: Lecture #1

Computing and Hollywood v1.0

ROBOTS: THE IMAGE

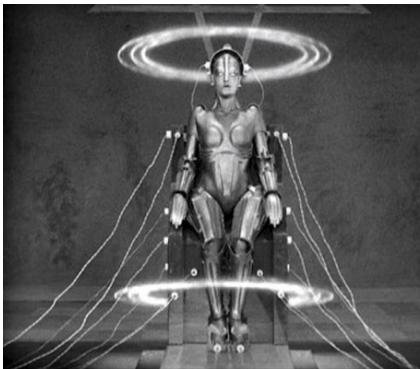
ROBOTS: THE REALITY

ROBOTS AT THE MOVIES: *Westworld* (1973)

Our Inspiration



Robots: The Image



Robot Maria
Metropolis (1927)



Robby
Forbidden Planet
(1956)

Robots: The Image (Cont'd)



T-800
The Terminator (1984)



R2D2 and C3PO
Star Wars (1977)

Robots: The Image (Cont'd)



Ava
Ex Machina
(2015)



WALL-E
WALL-E (2008)

Robots: The Reality



Town Clock
(Munich; 1500s)



Mechanical Duck
(1739)



Mechanical Turk
(1770)

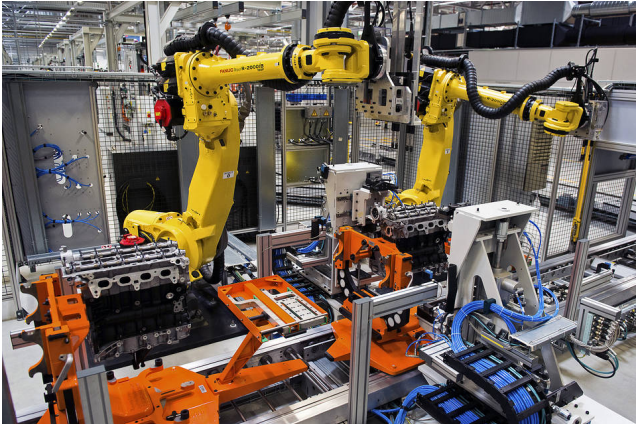
- First robots were mechanical automata which simulated various intelligent processes, e.g., movement, reasoning.

Robots: The Reality (Cont'd)

- Term “robot” (from Old Slavonic *rabu*, “serf”) coined by Karel Čapek (*R.U.R. (Rossum's Universal Robots)* (1920)).
- Three broad types of robots: industrial, scientific, domestic
- Robots vary along several dimensions:

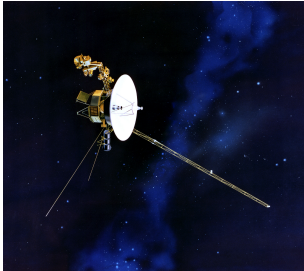
controlled	vs.	autonomous
non-humanoid	vs.	humanoid
non-social	vs.	social
non-intelligent	vs.	intelligent

Robots: The Reality (Cont'd)

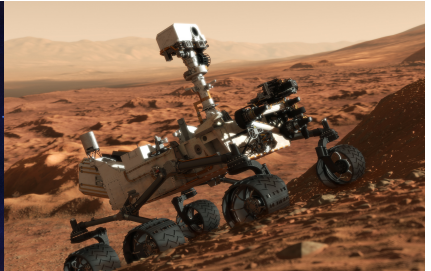


PUMA (Programmable Universal Machine for Assembly) (1969)
(CN* / NH* / NS / NI*)

Robots: The Reality (Cont'd)



Voyager
(1973)



Curiosity (2012)

(*AU / NH* / NS / NI*)

Robots: The Reality (Cont'd)



Walt Disney World: Hall of Presidents (1971)
(CN / HU / NS / NI)

Robots: The Reality (Cont'd)



Roomba
(2002)



Google Driverless Car
(2016)

(*AU / NH / NS / *IN)

Robots: The Reality (Cont'd)



PARO (2004)



Robear (2015)

(CN* / HU / *SO / *IN)

Robots: The Reality (Cont'd)



Military Robots Showcase (2010s)
(CN* / *HU / NS / *IN)

Robots: The Reality (Cont'd)



Real Doll Sex Robots Showcase (2017)

(CN* / HU / *SO / *IN)

Robots At the Movies: *Westworld* (1973)



Written / directed by
Michael Crichton
(1942–2008)



Starring
Yul Brynner
(1920–1985)

Used Gunslinger character from *The Magnificent Seven* (1960)