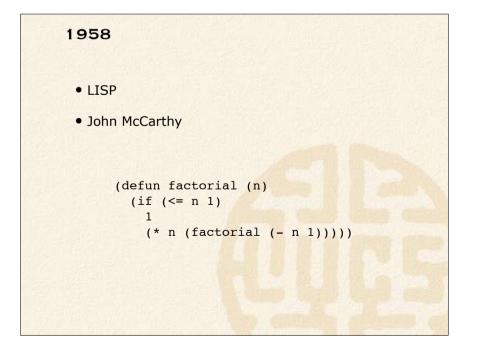
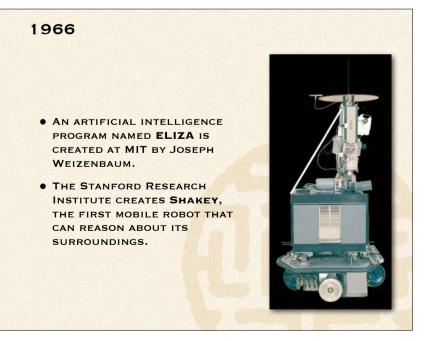
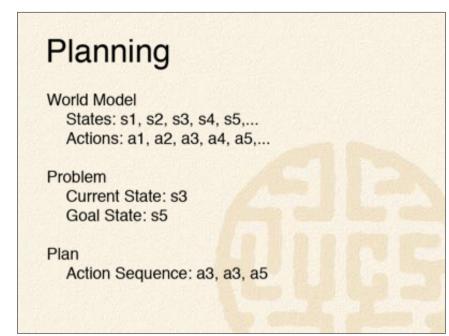


• GEORGE DEVOL AND JOSEPH ENGELBERGER FORMED THE WORLD'S FIRST ROBOT COMPANY.







1972

Prolog
Propositions:
 father(sam, sue).
 father(steve, sam).
Inference rule:
 grandfather(X, Y) :- father(X, Z), father(Z, Y).
Inferred:
 grandfather(steve, sue).

Rule Based Systems

Rules

has-wheels => vehicle has-motor & is-vehicle => motor-vehicle not has-motor & is-vehicle => bike

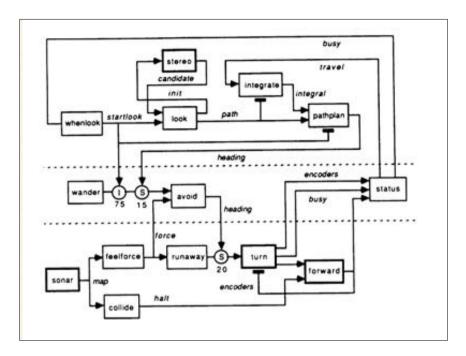
Inference has-wheels not has-motor =>bike

How to handle negation?

1986

- HONDA BEGINS A ROBOT RESEARCH PROGRAM THAT'S STARTS WITH THE PREMISE THAT THE ROBOT "SHOULD COEXIST AND COOPERATE WITH HUMAN BEINGS."
- PARALLEL DISTRIBUTED PROCESSING
- THE NEURAL NETWORK REVOLUTION







elephants don't play chess!

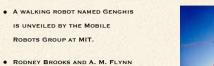
PUBLISH THE PAPER "FAST, CHEAP

AND OUT OF CONTROL: A ROBOT

INVASION OF THE SOLAR SYSTEM".

ACADEMICS START TO CONCENTRATE

ON SMALL, SMART USEFUL ROBOTS RATHER THAN SIMULATED PEOPLE.



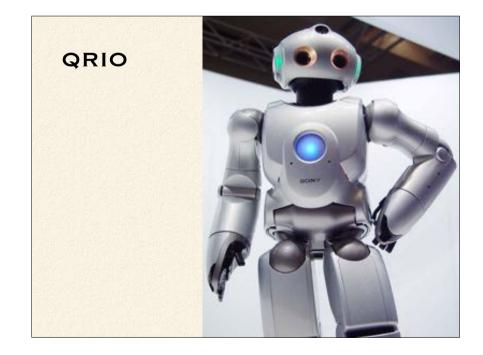


1989







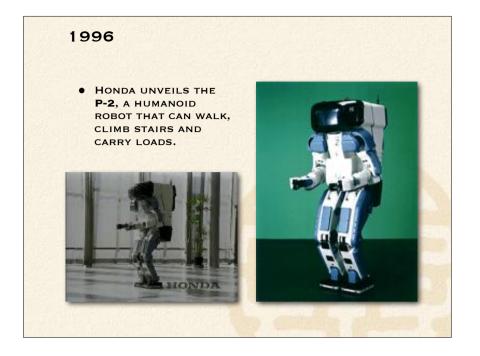






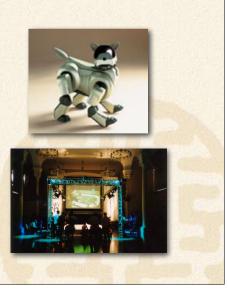


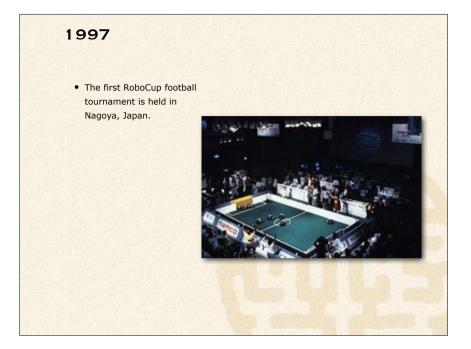




1999

- May, Sony builds Aibo, K9 the next generation. One of the first robots intended for the consumer market. It reacts on sounds and has preprogrammed behavior. It sells out within 20 minutes of going on sale.
- RoboCup in Stockholm





1997

• May, World chess champion Garry Kasparov loses to IBM's Deep Blue supercomputer.



