

Integrating Planning and Reinforcement Learning

—

Harsha Kokel
Research Scientist
IBM Research

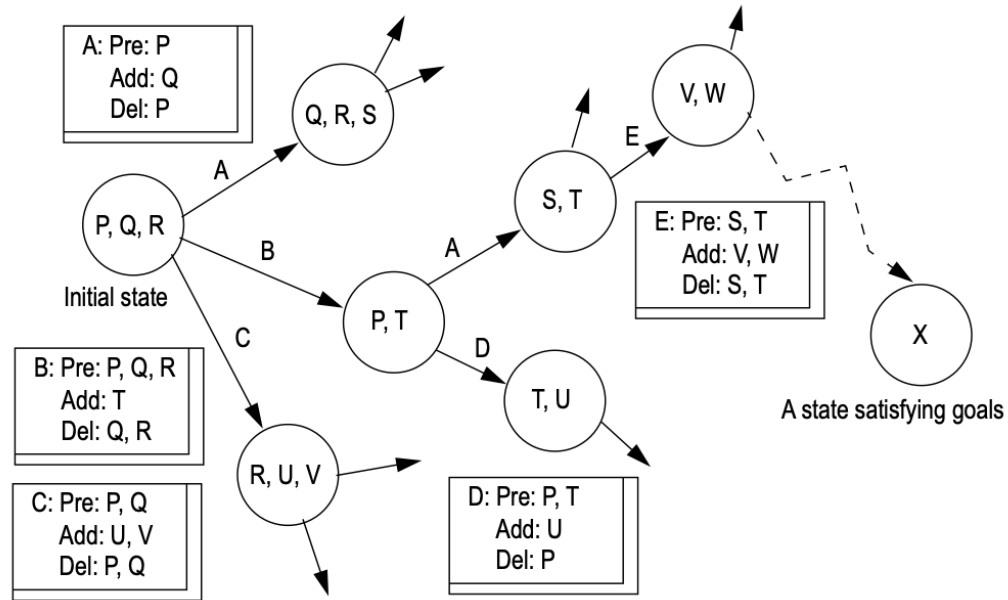


Reinforcement Learning



Skinner, B. F. (1961). Teaching machines.

Planning



Long and Fox (2002)

Planning

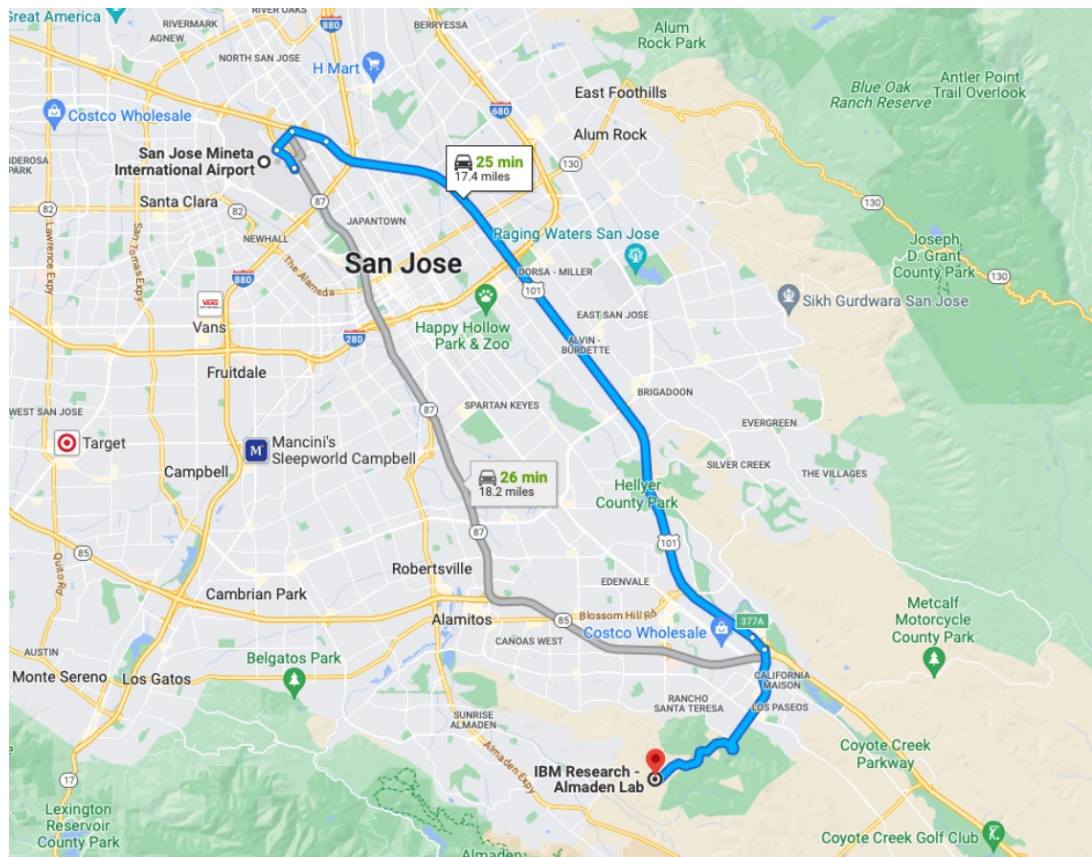
- Search through space of states
- Relies on an explicit model of the environment

RL

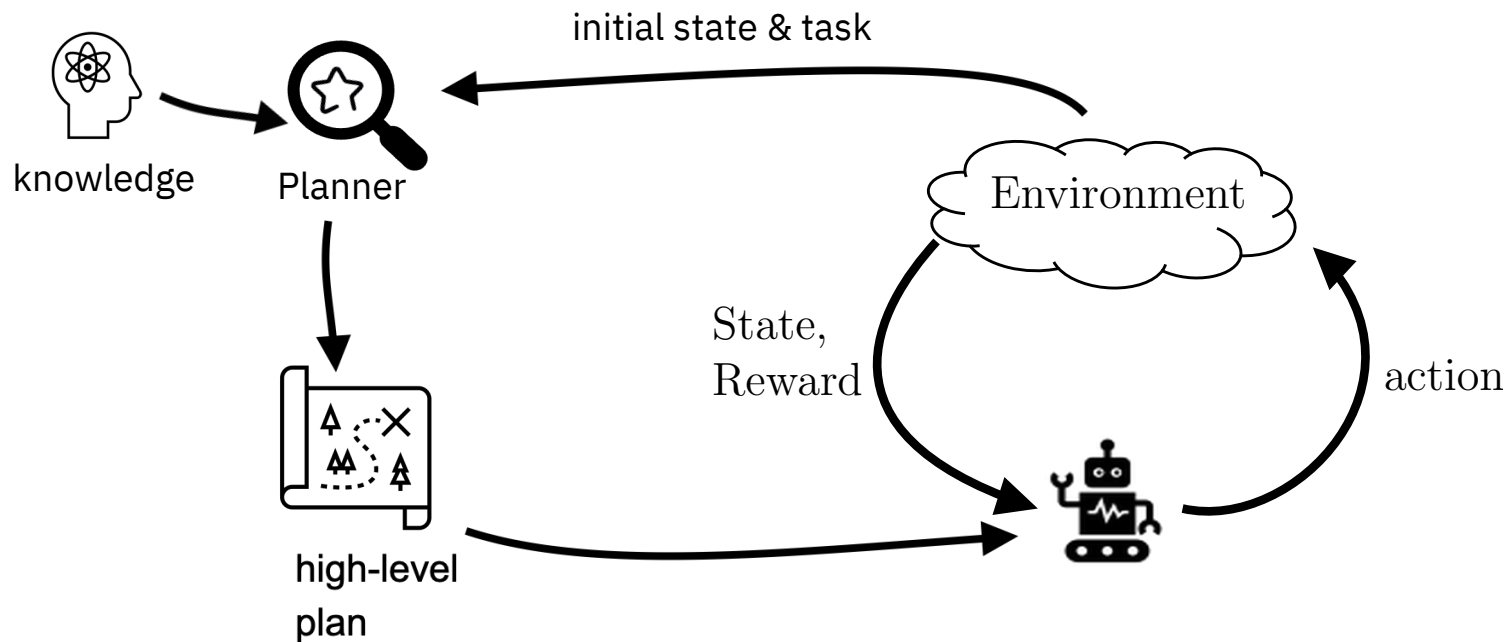
- Search through space of policies
- Relies on trial & error by interaction



Köhler (1948)

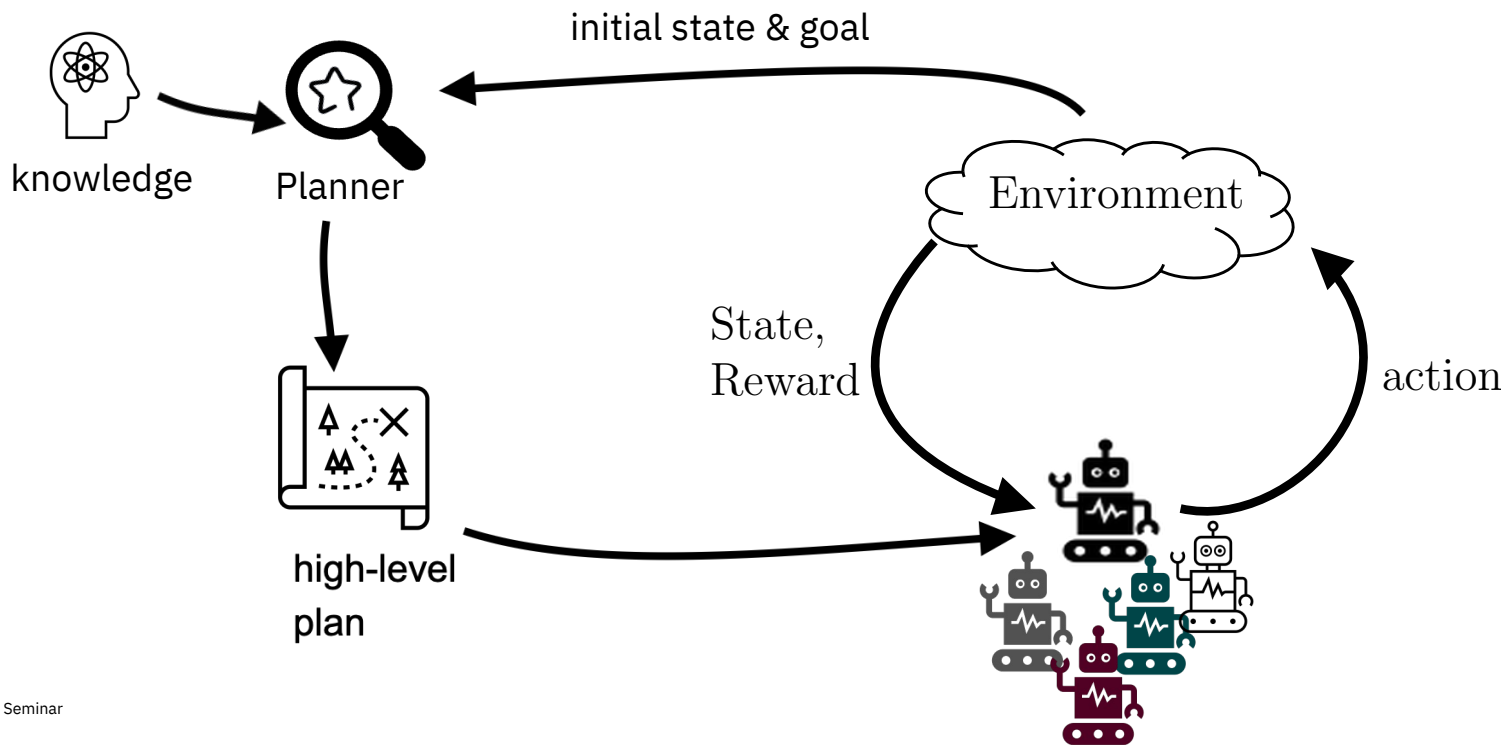


Integrating Planning and RL





Integrating Planning and RL



Thank You