Intro

Friday, November 4, 2016 9:39 AM

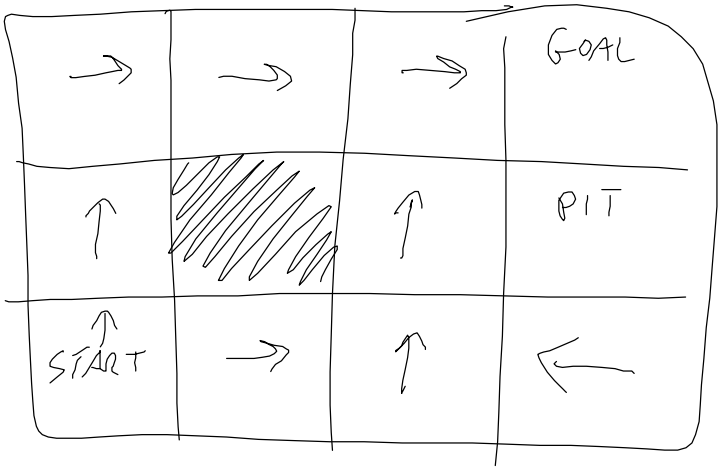
Utility theory

$$EU(A) = \sum_i \left[P(result_i(a)) U(result_i(a)) \right]$$

$$EU(moveF) = P(crash|e) \cdot U(crash) + P(\neg crash|e) \cdot U(\neg crash)$$

$$EU(moveB) =$$

Not sequential!



Actions are reliable

Plan #1: RRUUR

Plan #2: UURRR

Actions are not reliable:

If you try to go up

80% go up

10% go right

10% go left

Policy $\pi: S \rightarrow a$: for any state S, what is the best action a to get to get to our goal?

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