

RI-Competition 2009

Octopus Prime

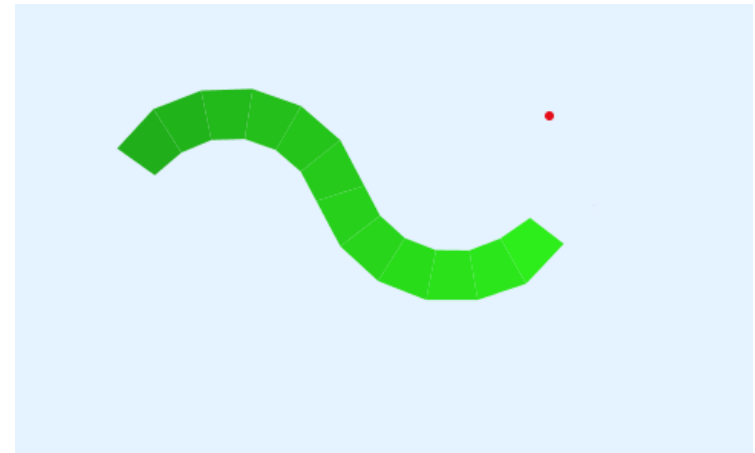
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Agent Overview

- Sarsa(λ) with linear function approximation
- 7 discrete actions (from 32 continuous actions)
- Binned features on 6 continuous observations

Features

- 6 observations
 - Position of base
 - Velocity of base
 - (x, y) tail position
 - (x, y) tail velocity



Parameters

- Number of bins: 10
- Learning rate: $\alpha = 0.5$
- Trace parameter: $\lambda = 0.7$

Exploration

- Optimistic initialization ($\theta = 0$)
- Note: Increased reward from 20 to 100 when reached goal