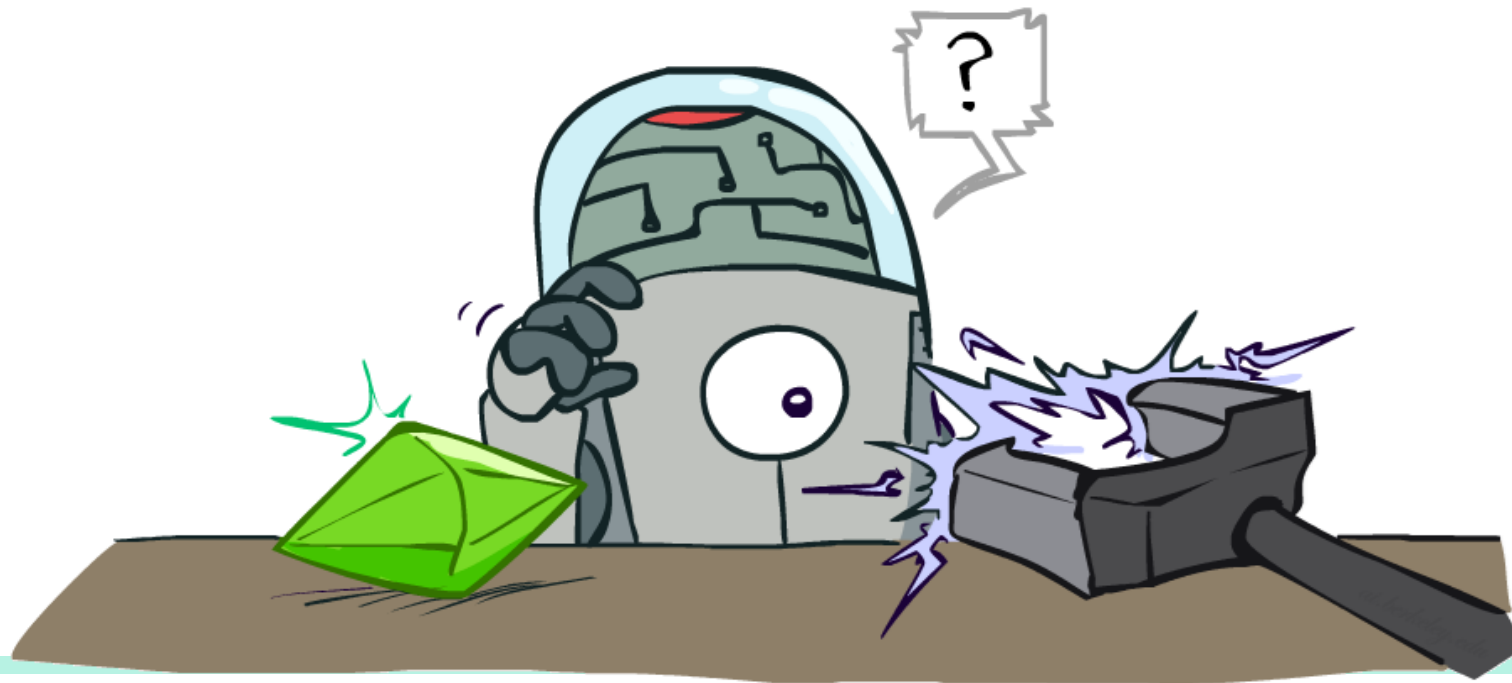


# Advanced Topics in AI

## Reinforcement learning



Instructor: Prof. Dr. techn. Wolfgang Nejdl

Leibniz University Hannover

[These slides were created by Dan Klein and Pieter Abbeel for CS188 Intro to AI at UC Berkeley. All materials are available at <http://ai.berkeley.edu>.]



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# Example: Learning to Walk



Initial



A Learning Trial



After Learning [1K Trials]

# Example: Learning to Walk



[Kohl and Stone, ICRA 2004] AIBO WALK

Initial

# Example: Learning to Walk



[Kohl and Stone, ICRA 2004] AIBO WALK

Training

# Example: Learning to Walk



Finished

[Kohl and Stone, ICRA 2004] AIBO WALK

# Example: Sidewinding



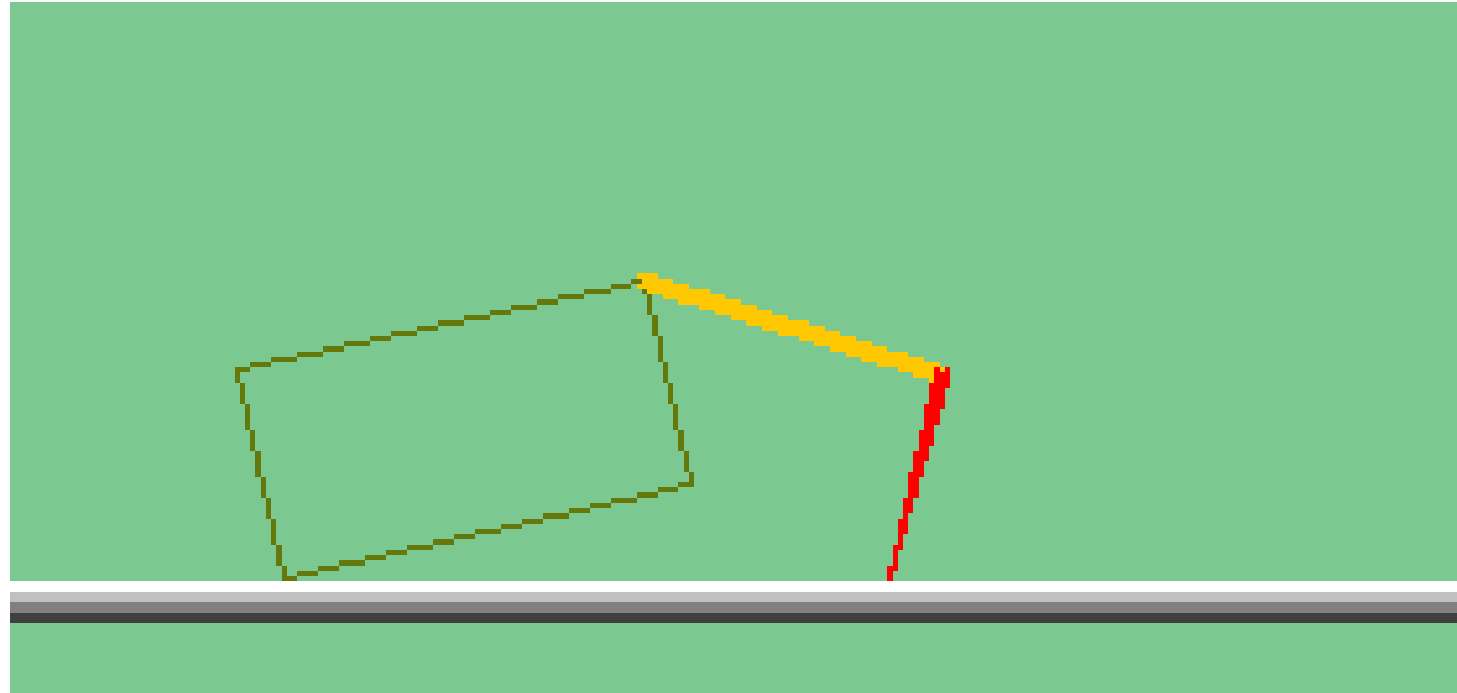
[Andrew Ng] SNAKE

# Example: Toddler Robot



[Tedrake, Zhang and Seung, 2005] TODDLER

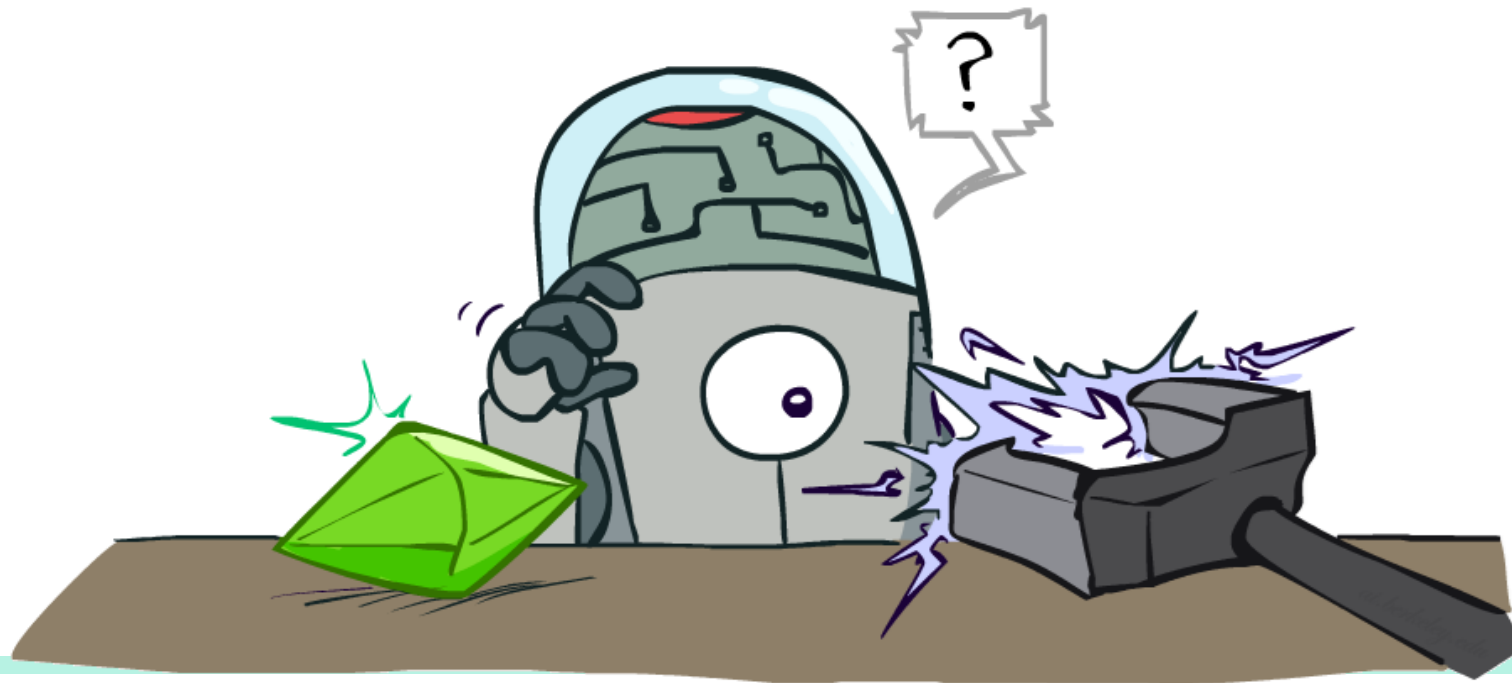
# The Crawler!





# Advanced Topics in AI

Next: Taxonomy



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