

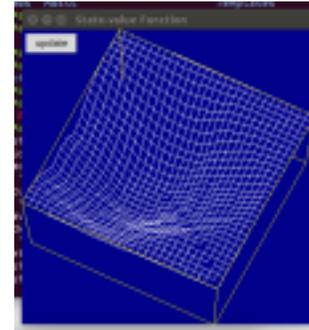
RL Resources

By David Szeto

Three Topics

- RL Toolkit
- awesome-rl
- OpenAI Gym

RL Toolkit



RL Toolkit

- <http://incompleteideas.net/rlai.cs.ualberta.ca/RLAI/RLtoolkit/RLtoolkit1.0.html>
- Collection of utilities and demos for reinforcement learning
- Provides a standardized interface between environments and agents:
<http://incompleteideas.net/rlai.cs.ualberta.ca/RLAI/RLtoolkit/RLinterface.html>
- Provides implementation of tile coding to efficiently handle large state spaces
- Provides simple graphics library to easily make graphical displays

RL Toolkit

- Provides various agents and environments
- Uses tk GUI framework
- Recently ported to Python 3 – but!
- `~/Documents/MSc/2542/software_demo/run_rl_toolkit.py`
- `~/Documents/MSc/2542/software_demo/run_rl_toolkit_mountain.py`

awesome-rl

Awesome Reinforcement Learning

A curated list of resources dedicated to reinforcement learning.

We have pages for other topics: [awesome-rl](#), [awesome-deep-vision](#), [awesome-random-forest](#)

Maintainers: [Hyunwoo Kim](#), [Jaeon Kim](#)

We are looking for more contributors and maintainers!

Contributing

Please feel free to pull requests!

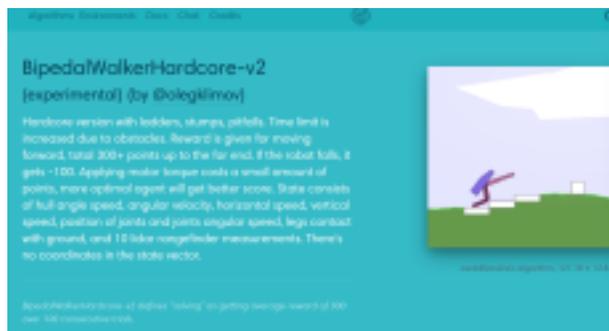
Table of Contents

- Codes
- Theory
 - Lectures
 - Books
 - Surveys
 - Papers / Thesis
- Applications
 - Game Playing
 - Robotics
 - ...

awesome-rl

- <https://github.com/aikorea/awesome-rl>
- Curated “awesome” list of resources related to RL
- Contains... a lot.
- <https://xkcd.com/927/>

OpenAI Gym



OpenAI Gym

- Toolkit for developing and *comparing* RL algorithms
- Provides a standardized interface between agents and environments
- Provides a wide variety of benchmarks for measuring effectiveness of RL algorithms
- Provides a standardized set of environments to get apples-to-apples comparisons

OpenAI Gym

- Python 2 or 3
- Still in beta
- <https://gym.openai.com/>