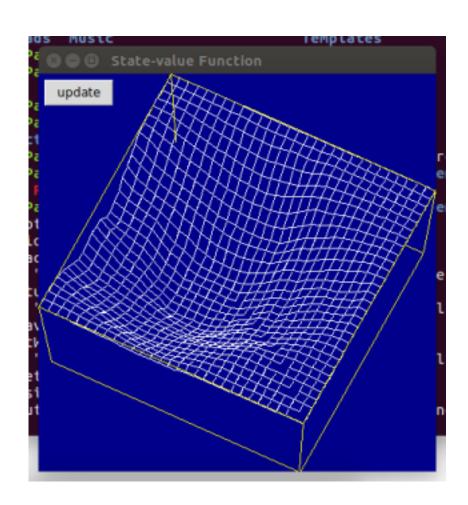
RL Resources

By David Szeto

Three Topics

- RL Toolkit
- awesome-rl
- OpenAl Gym

RL Toolkit



RL Toolkit

- http://incompleteideas.net/rlai.cs.ualberta.ca/RLAI/R Ltoolkit/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/R Ltoolkit/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_t oolkit.py
- ~/Documents/MSc/2542/software_demo/run_rl_t oolkit_mountain.py

awesome-rl

Awesome Reinforcement Learning

A curated list of resources dedicated to reinforcement learning.

We have pages for other topics: awesome-rnn, awesome-deep-vision, awesome-random-forest

Maintainers: Hyunsoo Kim, Jiwon Kim

We are looking for more contributors and maintainers!

Contributing

Please feel free to pull requests

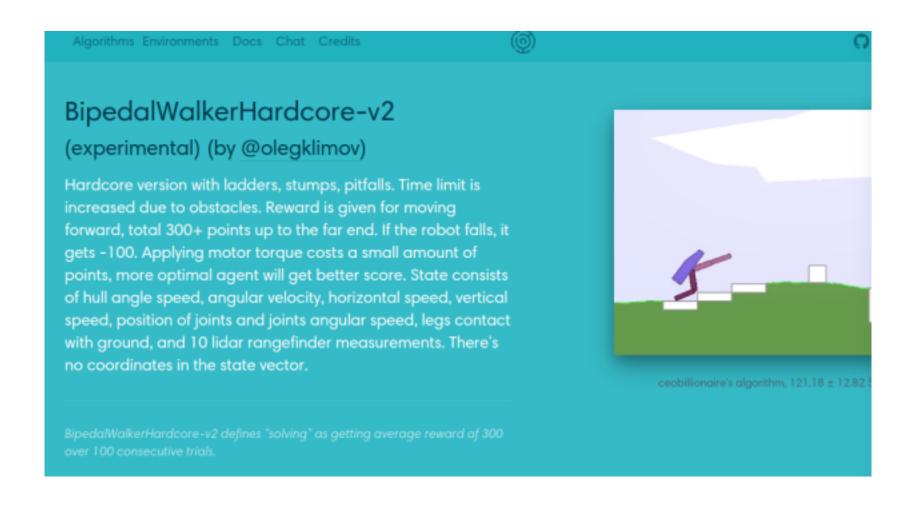
Table of Contents

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

awesome-rl

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

OpenAl Gym



OpenAl 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

OpenAl Gym

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