tonic A Deep RL Library for Fast Prototyping and Benchmarking

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github.com/fabiopardo/tonic

Frameworks

- TensorFlow 2
- PyTorch

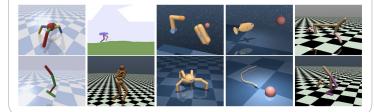


Import tonic.tensorflow or tonic.torch

Continuous-control environments

Command lines

- OpenAl Gym
- DeepMind Control Suite
- PyBullet



Scripts

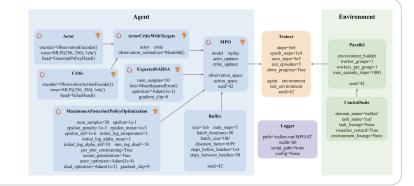
- Train
- Plot
- Plav

python3 -m tonic.train \ --header 'import tonic.torch' \ --agent 'tonic.torch.agents.PPO()' \ --environment 'tonic.environments.Gym("BipedalWalker-v3")' \ --seed 0 Use the benchmark python3 -m tonic.plot --path BipedalWalker-v3 --baselines all Reload experiments python3 -m tonic.play --path BipedalWalker-v3/PPO/0

Agents

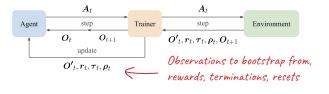
- A2C, TRPO, PPO, MPO
- DDPG, D4PG, TD3, SAC
- Configurable modules
- Identical API
- Shared general tricks

Configure and plug!



Trainer

- Distributed
- Synchronous
- Non-terminal timeouts
- Reproducibility



Benchmark

- 70 tasks
- Default parameters
- 5M steps
- 10 seeds
- Identical training
- Identical testing
- Logs and checkpoints

