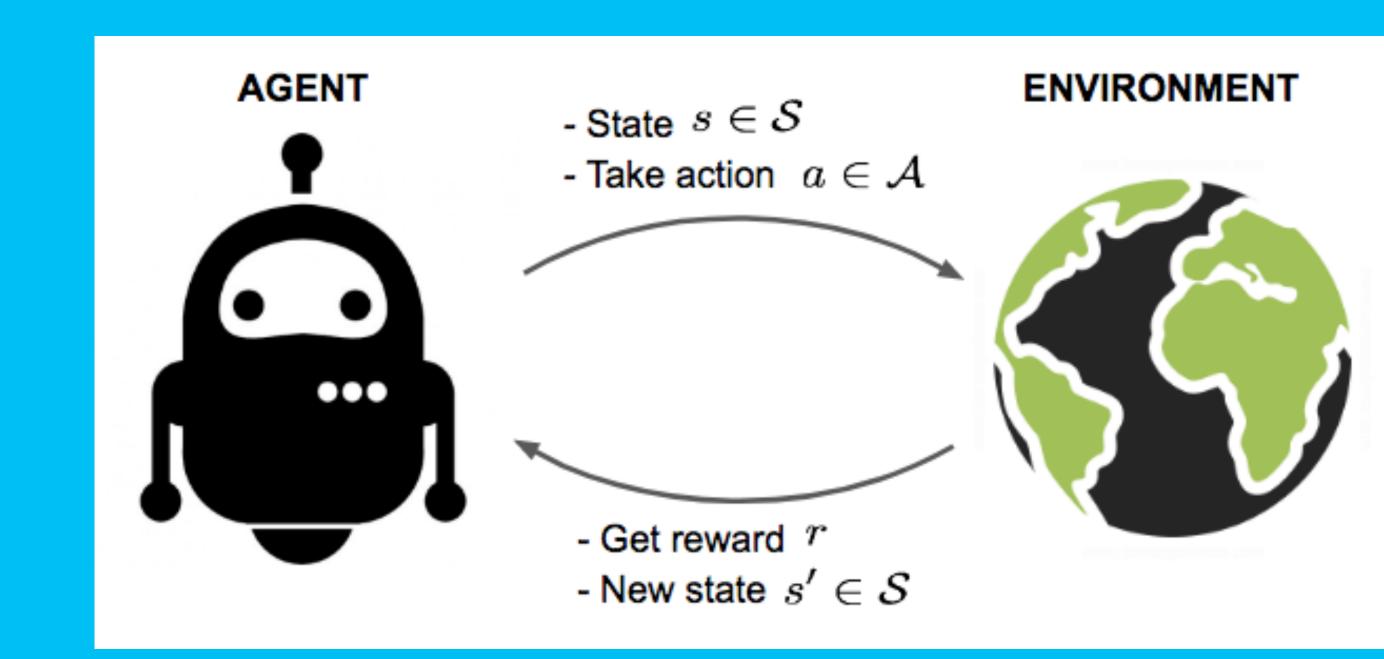
DEEP REINFORCEMENT LEARNING

A BASIC ALGORITHM

- Play 100 random moves, and store the results
- Train a neural net on those 100 observations:
 - features = a 2048 grid & a move
 - target = the score
- Play 100 new moves:
 - 50% at random
 - 50% using the neural net
- Re-train the neural net on those new observations
- Repeat those steps ("reinforce")



YEAR 2048

PROJECT TIMELINE

- 1. Get familiar with **RL** concepts
- 2. Setup the dev environnement:
 - **2048** library
 - Reinforcement Learning library (TensorForce)
- 3. Implement a decent baseline
- 4. Implement a simple Q-learning algorithm
- 5. **Improve** the algorithm & **tune** it
- 6. Play a live 2048 game during the **Demo Day!**

tensorforce/ tensorforce



Tensorforce: a TensorFlow library for applied reinforcement learning

ሄ 506 ① 5 ☆ 3k ^{Al} 61 Contributors Stars Issues

Forks

