

Beating humans at their own game (literally)

Playing Atari Games

- Human-level control through deep reinforcement learning for playing Atari Games^[1]



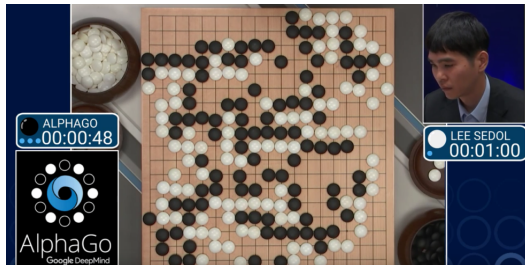
2015



DQNs

Let's GO

- Alpha Go Zero - Best Go player ever, surpassing human players^[2]
- GO is more complex than chess because of number of possible moves
- No brute force backtracking unlike previous chess agents



2015



DQNs/AlphaGO

Taking a shot at Poker

DeepStack defeated 11 professional poker players with only one outside the margin of statistical significance^[3]



2015



DQNs/AlphaGO

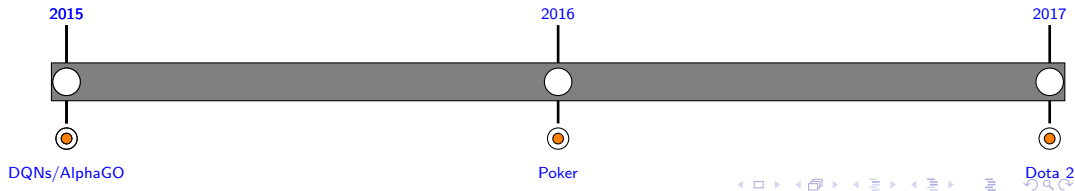
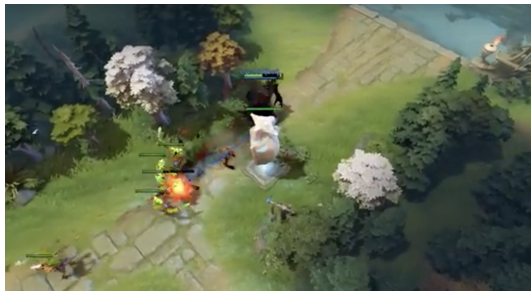
2016



Poker

Defense of the Ancients

- Widely popular game, with complex strategies, large visual space
- Bot was undefeated against many top professional players



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