



幻灯片 1

张1

张杨, 2018/6/11

Outline

- Introduction
- Pipeline
- DEMO
- Conclusion
- Q & A



Motivation

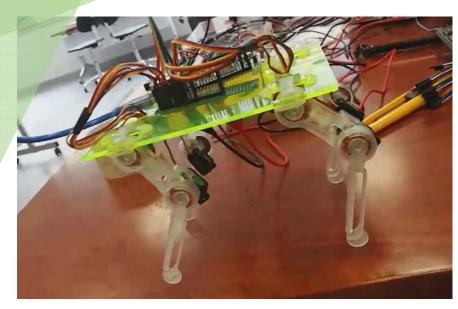


Empire's walking war machines



AlphaGŏu

Design

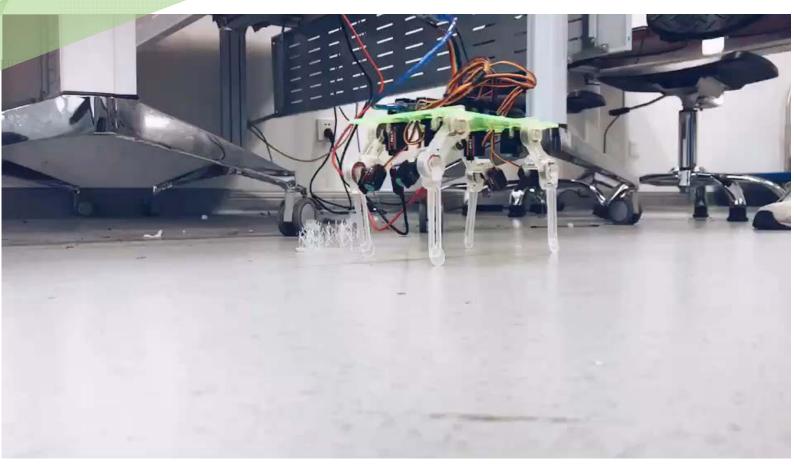


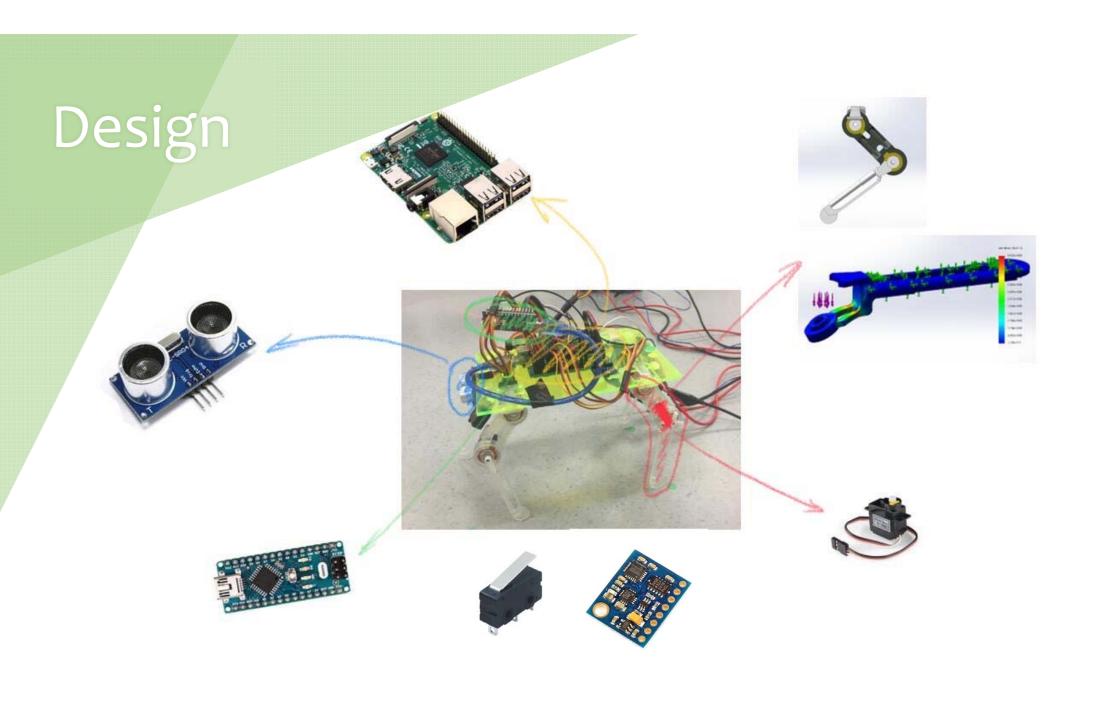
AlphaGŏu 1.0



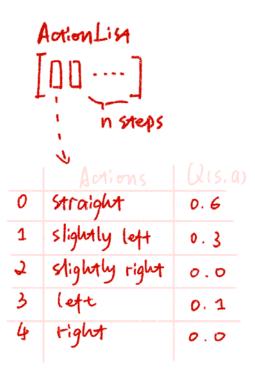
Redesigned AlphaGŏu

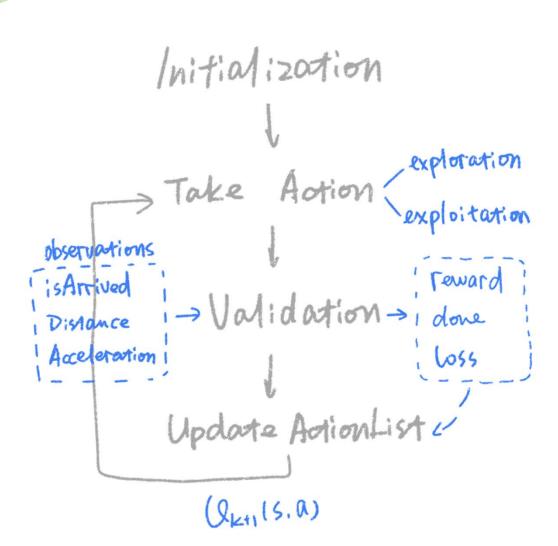
Demo



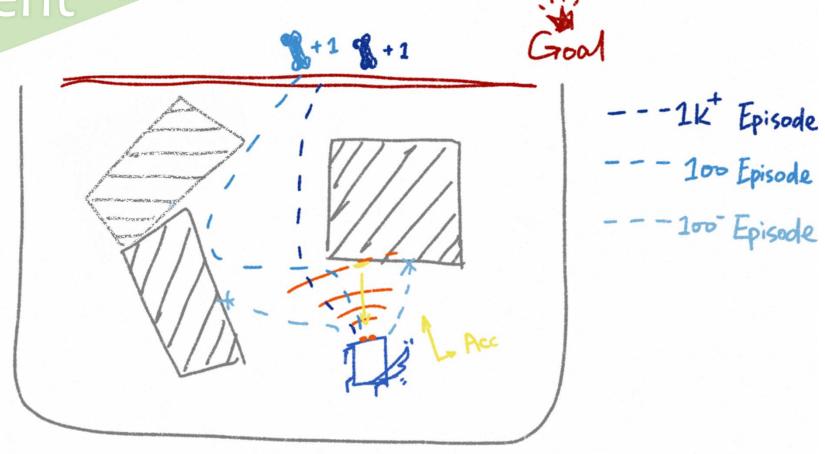


Algorithm





Experiment



Training Space

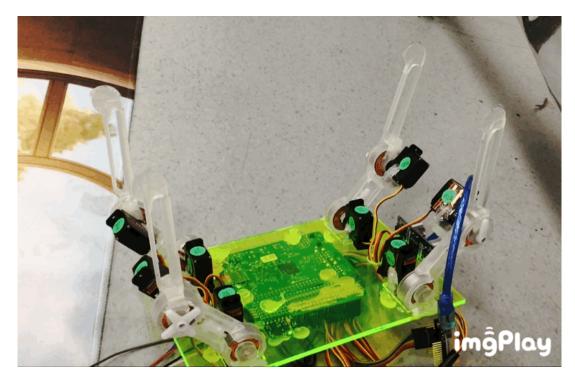
Q-Learning 100 Episodes Test

ShanghaiTech CS285 Green Group

Conclusion

A 4 legs walking robot that learn to avoid obstacles using a reinforcement learning algorithm called Q-learning algorithm. Developed on Raspberry Pi and Arduino with Ultrasonic distance sensor and IMU etc.

Q&A



Thank You!

