README.md 10/24/2018

Wolverine

Deep Reinforcement Learning for UAV

Semester Project for EE5894 Robot Motion Planning, Fall2018, Virginia Tech

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Simulator: AirSim

Open Source Library: CNTK

Install AirSim on Mac

0. Before start

- make sure good network connection and speed, the whole installation cost more than 20G size download.
- o my case:
 - Hardware MacBook Pro (Retina, 13-inch, Early 2015);
 - Graphics Intel Iris Graphics 6100 1536 MB;
 - OS High Sierra Version 10.13.6;
 - Xcode verison 10.0
- install Xcode, and do lanuch to make sure it is well installed.
- 1. install Epic Games Launcher
- 2. launch Epic Games Launcher, in left Bar, click "Library", install the **Unreal Engine**, where I choose the newest version 4.20, the installation take around an hour for the ~20G download.
- 3. after unreal engine is installed, launch it. Choose "Learn" at left Bar, select the **Landscape Mountains** scence, which is the official and most widely used one, and it cost ~2G download.
- 4. When download finished, choose "Create Project" to save it.
- 5. Build Airsim:
 - o change path to where you want to install, for my case, I choose ~.

```
git clone https://github.com/Microsoft/AirSim.git
cd AirSim
./setup.sh
./build.sh
```

- the build take me around 20 min
- 6. Run Blocks, open the **Blocks.uproject** under **Unreal/Environments/Blocks/**, it may ask you to rebuild.

README.md 10/24/2018

7. copy the folder unreal/plugins of Blocks to LandscapeMountains, in that airsim could run as a plugin in this project.

8. Launch the LandscapeMountains.uproject.

Reference

• install AriSim on Mac in Chinese(https://blog.csdn.net/qq_26919935/article/details/80901773)