

CARLA Setup for MAC

1. Download carla 0.9.12.targz from their github repository using
wget <https://tiny.carla.org/carla-0-9-12-linux>
2. unzip the tar file using
tar -xzvf filename
3. Install nvidia drivers, I used:
sudo apt install nvidia-driver-535
4. Reboot once done with:
sudo reboot
5. Verify driver installation with:
Nvidia-smi

```
016730129@coe-cmpe-206-13:~$ nvidia-smi
Fri Nov 1 16:33:10 2024
```

NVIDIA-SMI 535.183.01				Driver Version: 535.183.01			CUDA Version: 12.2		
GPU	Name	Perf	Persistence-M	Bus-Id	Disp.A	Memory-Usage	Volatile	Uncorr.	ECC
Fan	Temp		Pwr:Usage/Cap				GPU-Util	Compute	M. MIG M.
0	NVIDIA GeForce RTX 2080	...	Off	00000000:01:00.0	On	51MiB / 8192MiB	0%	Default	N/A
18%	54C	P0	46W / 250W						N/A

Processes:							GPU Memory Usage
GPU	GI ID	CI ID	PID	Type	Process name		
0	N/A	N/A	1018	G	/usr/lib/xorg/Xorg		49MiB

6. Install vulkantools with
sudo apt-get install vulkan-tools
7. Download and Install XQuartz: <https://www.xquartz.org/>
8. From XQuartz ssh into the VM with ssh -X <studentid>:host

9. Export display port with
export DISPLAY=:0
10. Export XDG_RUNTIME with
export XDG_RUNTIME_DIR=/run/user/\$(id -u)
11. Check if there are any errors using
vulkaninfo
12. Add user mod to render with
sudo usermod -aG render \$USER
13. If no render group add it with
newgrp render
14. Run carla with
./CarlaUE4.sh -vulkan
15. If it says cannot access display try running
xhost +local:root
16. If it still doesnt work try
export DISPLAY=localhost:10.0

If you pip install carla -> pip uninstall carla
Assuming carla was installed and unzipped in home directory
Cd ./PythonAPI/carla/dist
python -m easy_install carla-0.9.12-py3.7-linux-x86_64.egg
pip install networkx==2.6

Top of any file using agents
sys.path.append('/home/015041195@SJSUAD/PythonAPI/carla')
sys.path.append('/home/015041195@SJSUAD/PythonAPI/carla/agents')