

Programming Set-up

(tested on MacOS and Linux)

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Python Set-up

Pacman Set-up

Python Set-up

Downloading Anaconda

- <https://www.anaconda.com/products/individual>

Anaconda Installers

Windows 	MacOS 	Linux 
Python 3.9	Python 3.9	Python 3.9
64-Bit Graphical Installer (510 MB)	64-Bit Graphical Installer (515 MB)	64-Bit (x86) Installer (581 MB)
32-Bit Graphical Installer (404 MB)	64-Bit Command Line Installer (508 MB)	64-Bit (Power8 and Power9) Installer (255 MB)
		64-Bit (AWS Graviton2 / ARM64) Installer (488 M)
		64-bit (Linux on IBM Z & LinuxONE) Installer (242 M)

Checking Python

- Check if Python is installed: open your terminal
 - `which python`
 - `python -version`

```
(base) → ~ which python
/Users/fernando/anaconda3/bin/python
(base) → ~ python --version
```

Installing Packages

- (Optional) Create Python 2.x/3.x environment for your project:
 - `conda create -n pacman python=2.7`
 - `conda activate pacman`
- Using pip/conda:
 - `pip install {pkg_name}` (pip install numpy)
 - `conda install {pkg_name}`

Pacman Set-up

Runing Pacman

- Open your terminal

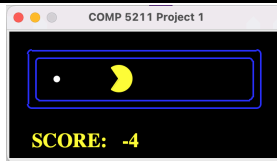
- `cd {dir_to_pacman}`

```
(base) → ~ cd /Users/fernando/Downloads/assign1-data_python3/pacman  
(base) → pacman
```

- Run a specified agent on a specified map

- `python pacman.py -layout {map} -pacman {agent}`

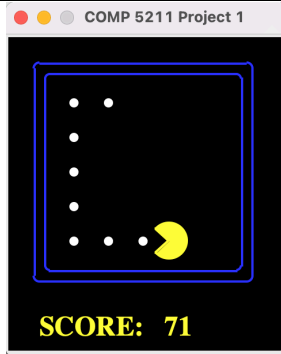
```
(base) → pacman python pacman.py --layout testMap --pacman NaiveAgent  
Pacman emerges victorious! Score: 503  
Average Score: 503.0  
Scores:      503.0  
Win Rate:    1/1 (1.00)  
Record:      Win
```



Runing Pacman (cont'd)

- Run a specified agent on a specified map
 - `python pacman.py -layout {map} -pacman {agent}`

```
(base) → pacman python pacman.py --layout smallMap --pacman PSagent
Pacman emerges victorious! Score: 643
Average Score: 643.0
Scores:        643.0
Win Rate:      1/1 (1.00)
Record:        Win
```



Thanks!