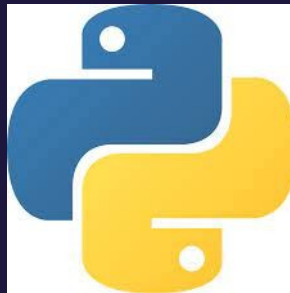


# LENGUAJES DE PROGRAMACIÓN PARA CIENCIAS DE DATOS I

## INSTALANDO PYTHON



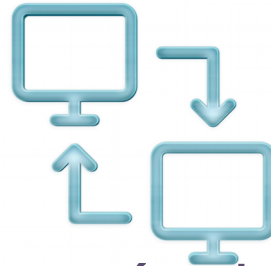
# Intérprete de Python

- Programa que se encarga de:

- ◆ Analizar código escrito en Python



- ◆ Interpretarlo



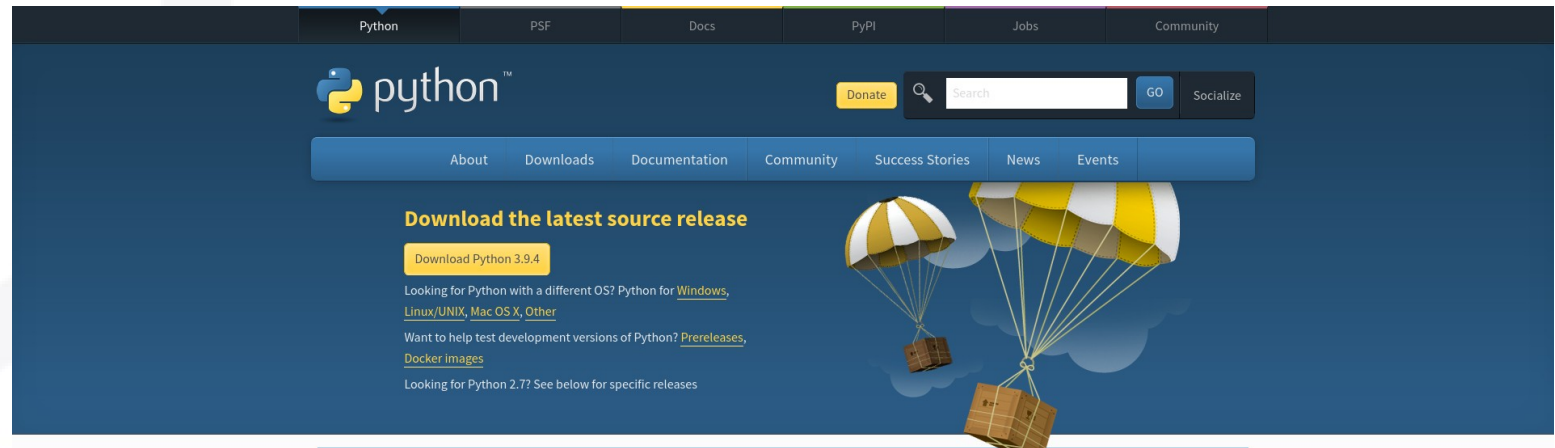
- ◆ Ejecutarlo sobre una máquina virtual de Python



# ¿Cómo instalar el intérprete?

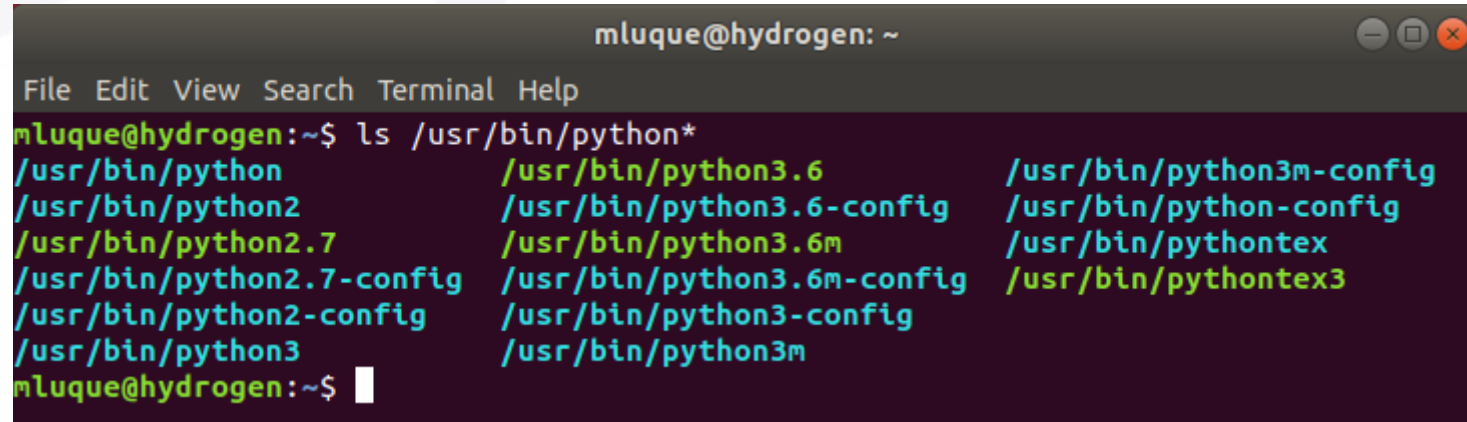
- Necesitamos
  - ◆ Intérprete en sí
  - ◆ Máquina virtual

<https://www.python.org/>



# Instalación en Linux

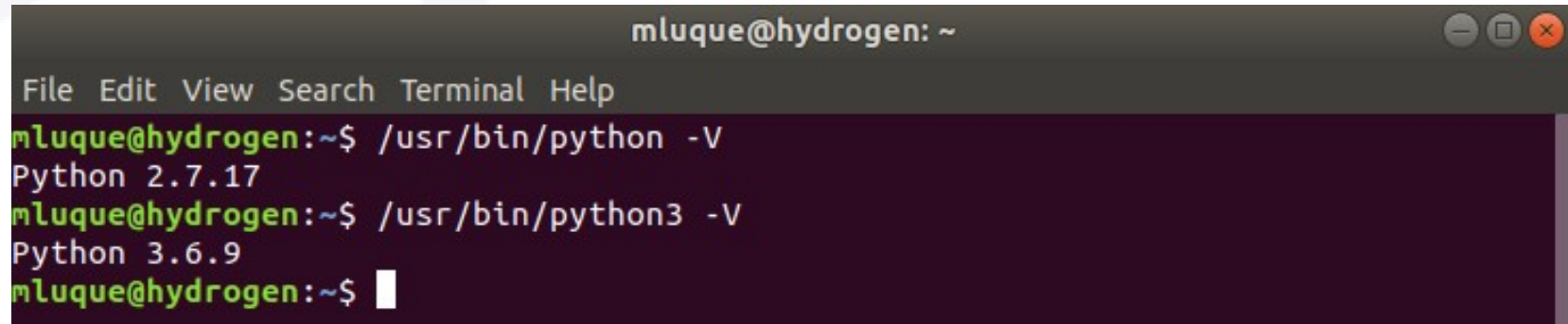
- Comprobar la versión instalada
  - ◆ `ls /usr/bin/python*`



```
mluque@hydrogen: ~  
File Edit View Search Terminal Help  
mluque@hydrogen:~$ ls /usr/bin/python*  
/usr/bin/python          /usr/bin/python3.6      /usr/bin/python3m-config  
/usr/bin/python2         /usr/bin/python3.6-config /usr/bin/python-config  
/usr/bin/python2.7       /usr/bin/python3.6m     /usr/bin/pythontex  
/usr/bin/python2.7-config /usr/bin/python3.6m-config /usr/bin/pythontex3  
/usr/bin/python2-config  /usr/bin/python3-config  
/usr/bin/python3         /usr/bin/python3m  
mluque@hydrogen:~$
```

# Instalación en Linux

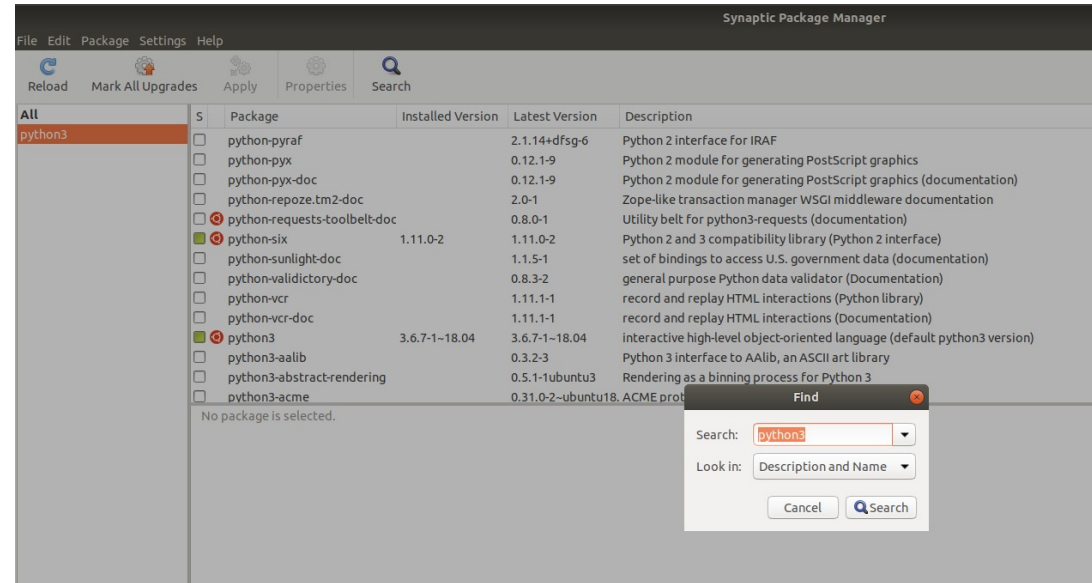
- Ampliar información sobre la versión instalada
  - ◆ `/usr/bin/python -V`

A terminal window titled 'mluque@hydrogen: ~' with standard window controls. The menu bar includes 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The terminal shows two commands being executed: first, '/usr/bin/python -V' which outputs 'Python 2.7.17', and second, '/usr/bin/python3 -V' which outputs 'Python 3.6.9'. The prompt is currently at the end of the second command's output.

```
mluque@hydrogen: ~  
File Edit View Search Terminal Help  
mluque@hydrogen:~$ /usr/bin/python -V  
Python 2.7.17  
mluque@hydrogen:~$ /usr/bin/python3 -V  
Python 3.6.9  
mluque@hydrogen:~$
```

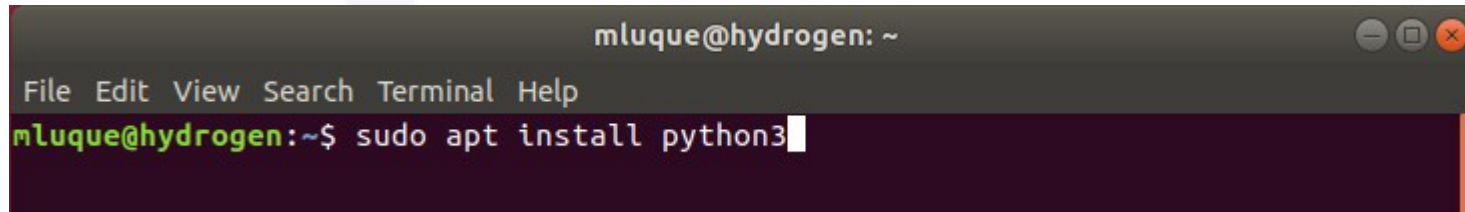
# Instalación en Linux

- Instalar una versión diferente
  - ◆ Gestor de paquetes



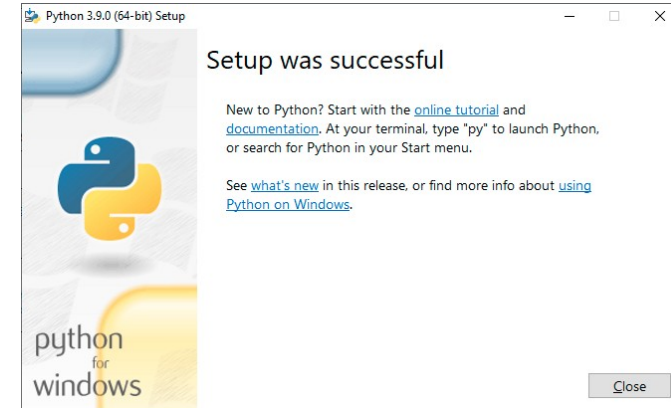
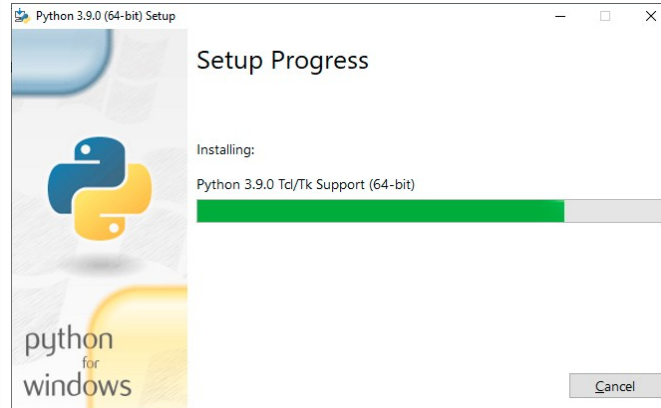
# Instalación en Linux

- Instalar una versión diferente
  - ◆ Línea de comandos

A screenshot of a Linux terminal window. The title bar at the top reads 'mluque@hydrogen: ~' and includes standard window control buttons (minimize, maximize, close). Below the title bar is a menu bar with the options 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The main area of the terminal shows a command prompt 'mluque@hydrogen:~\$' followed by the command 'sudo apt install python3'. A white cursor is positioned at the end of the command line.

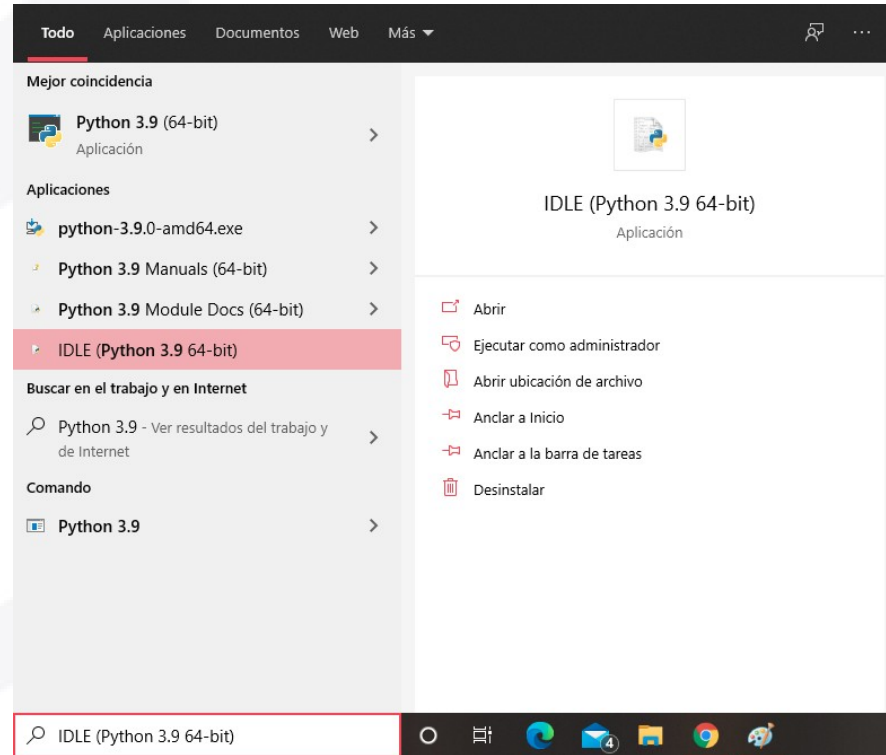
```
mluque@hydrogen: ~  
File Edit View Search Terminal Help  
mluque@hydrogen:~$ sudo apt install python3
```

# Instalación en Windows



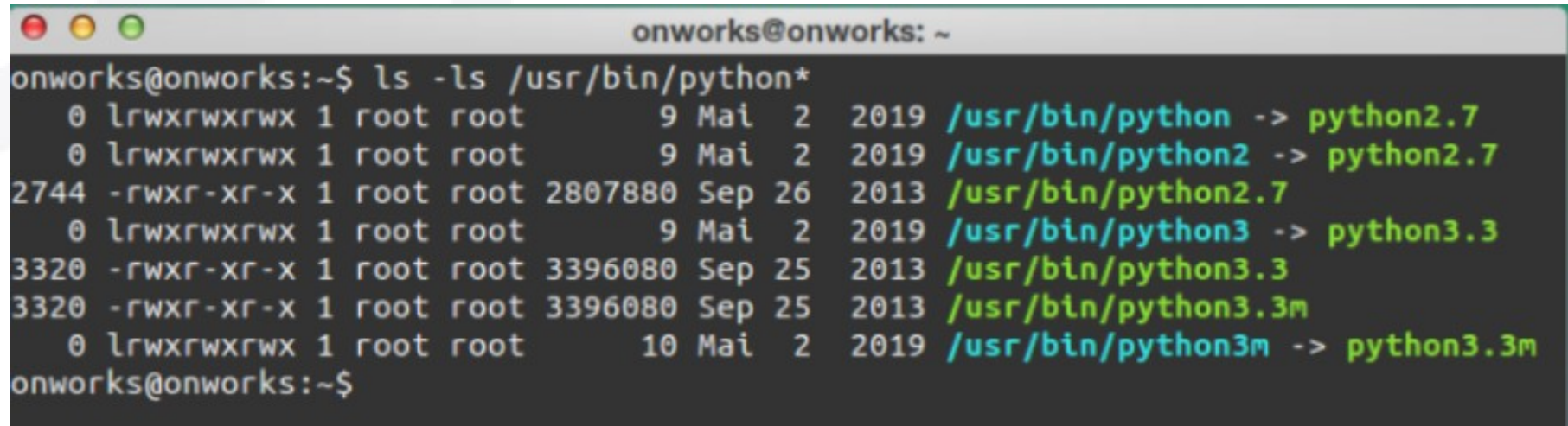


# Instalación en Windows



# Instalación en Mac os X

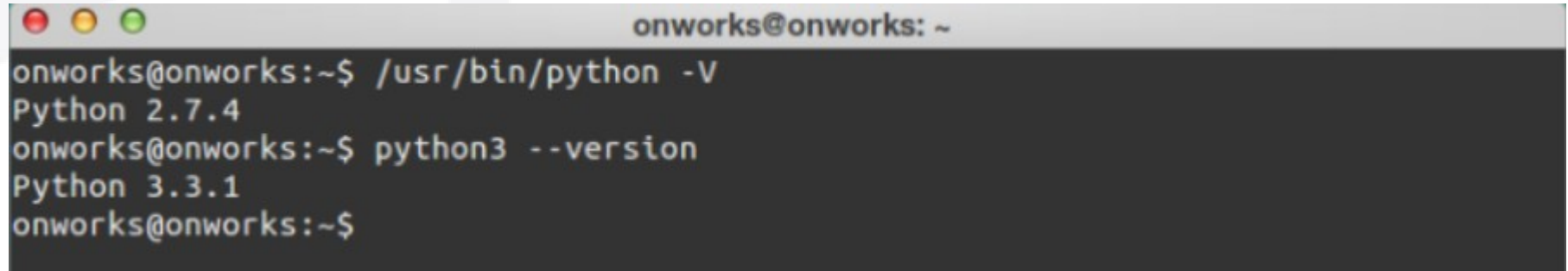
- Comprobar la versión instalada por defecto
  - ◆ `ls -ls /usr/bin/python*`



```
onworks@onworks: ~  
onworks@onworks:~$ ls -ls /usr/bin/python*  
  0 lrwxrwxrwx 1 root root      9 Mai  2  2019 /usr/bin/python -> python2.7  
  0 lrwxrwxrwx 1 root root      9 Mai  2  2019 /usr/bin/python2 -> python2.7  
2744 -rwxr-xr-x 1 root root 2807880 Sep 26  2013 /usr/bin/python2.7  
  0 lrwxrwxrwx 1 root root      9 Mai  2  2019 /usr/bin/python3 -> python3.3  
3320 -rwxr-xr-x 1 root root 3396080 Sep 25  2013 /usr/bin/python3.3  
3320 -rwxr-xr-x 1 root root 3396080 Sep 25  2013 /usr/bin/python3.3m  
  0 lrwxrwxrwx 1 root root     10 Mai  2  2019 /usr/bin/python3m -> python3.3m  
onworks@onworks:~$
```

# Instalación en Mac os X

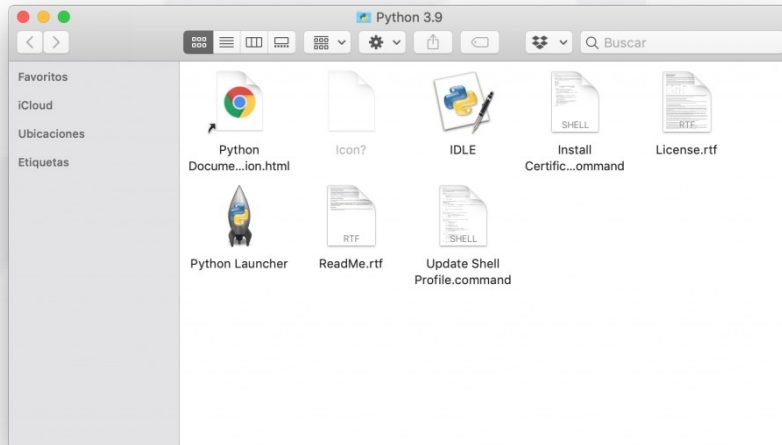
- Ampliar información sobre la versión instalada
  - ◆ `/usr/bin/python -V`
  - ◆ `python --version`

A screenshot of a macOS terminal window. The title bar shows three colored window control buttons (red, yellow, green) on the left and the text 'onworks@onworks: ~' on the right. The terminal has a dark background with white text. It shows two commands being executed: first, '/usr/bin/python -V' which returns 'Python 2.7.4', and second, 'python3 --version' which returns 'Python 3.3.1'. The prompt 'onworks@onworks:~\$' is visible before each command and after the second command.

```
onworks@onworks:~$ /usr/bin/python -V
Python 2.7.4
onworks@onworks:~$ python3 --version
Python 3.3.1
onworks@onworks:~$
```

# Instalación en MacOS X

- Instalar una versión diferente



# Instalación en MacOS X

- Instalar una versión diferente
  - ◆ Gestor de paquetes Brew

```
# instalar brew
$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"

# instalar python
$ brew install python
```

# Python desde una distribución



# Python Online

