

# PYTHON

development, python

## doc

- [Curso python \(PCPP1\) PUE 2023](#)
- [Curso python PUE 2022](#)
- [Curso python udemy](#)

## install

### best practices

- entornos virtuales: [Python: Entornos virtuales](#)
- paquetes: [Python pip](#)
- instalar varias versiones python:  
<https://medium.com/@julqg/instalando-m%C3%BAltiples-versiones-de-python-en-linux-ubuntu-20-04-2-lts-9f163c046cc5>
- How to use Python's **py** launcher for Windows:  
<https://www.infoworld.com/article/3617292/how-to-use-pythons-py-launcher-for-windows.html>
- Use Poetry for package management:

```
curl -sSL https://install.python-poetry.org | python3 -
```

### bootstrap

```
mkdir my-project && cd my-project
# Make sure the standard .gitignore is set
curl -o .gitignore
https://raw.githubusercontent.com/github/gitignore/main/Python.gitignore
# init and activate virtual environment
python3 -m venv ./venv && source venv/bin/activate
# init Poetry. It will rely only the previously created venv, if activated.
poetry init -q
```

### test

```
poetry add -g test flake8 autopep8 flake8-annotation
poetry install --only test
# Using Flake8 for lint
poetry run flake8 src
# Enforce styling
poetry run autopep8 --in-place --recursive src
# Using pytype for type checking
poetry run #TODO
```

/via: <https://code.europa.eu/digit-c4/dev/python-best-practices>

## vanilla

- default:

```
whereis python
sudo update-alternatives --install /usr/bin/python python /usr/bin/python3 20
sudo update-alternatives --config python
```

- entornos virtuales y paquetes:
  - <https://docs.python.org/es/3.8/tutorial/venv.html>
  - <https://docs.python.org/3/tutorial/venv.html>

## anaconda (y miniconda)

- distribución Python, orientada al desarrollo científico con Python, tanto analítico como gráfico.
- Miniconda solo tiene Python + gestor de paquetes **Conda (gestor paquetes miniconda - python)**

## doc

- v2: <http://www.greenteapress.com/thinkpython/thinkpython.pdf>
  - think python
- <https://es.py4e.com/book>
- <https://automatetheboringstuff.com/#toc>
- <https://jakevdp.github.io/PythonDataScienceHandbook/>
- gitignore: <https://github.com/github/gitignore/blob/main/Python.gitignore>

## more

### built-in

- [Python aberraciones](#)
- [Python strings](#)
- [Python iterables](#)
- [Python Type Hinting](#)
- [python datetime](#)
- [Python excepciones](#)
- [Python decoradores](#)
- [magic methods](#)
  - <https://medium.com/@johnidouglassmarangon/using-call-method-to-invoke-class-instance-as-a-function-f61396145567>
- [metaclasses](#)
- [lambda o funciones anónimas](#)

### librerías

- [Python librerías](#)
- [Python pyodbc](#)
- [Python PycURL](#)
- [Python Pandas](#)
- [Python Bokeh](#)

## otros

- Tkinter (GUI):
  - <https://wiki.python.org/moin/TkInter>
  - `sudo apt-get install python python3-tk`
- functools → cache
- Microsoft Access/SQL Server (PTE)
  - <https://docs.microsoft.com/en-us/sql/connect/python/pyodbc/python-sql-driver-pyodbc?view=sql-server-ver16>
  - <https://www.codegrepper.com/code-examples/python/how+to+open+mdb+file+in+python>

## más

- [curso python \(código facilito\)](#) mate
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- [Curso python + openpyxl \(excel\)](#) mate
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