# 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/@julgq/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 curiosidades
- Python strings
- Python iterables
- Python Type Hinting
- python datetime
- Python excepciones
- Python decoradores
- magic methods
  - https://medium.com/@johnidouglasmarangon/using-call-method-to-invoke-class-instance-as-a-function-f61396145567
- metaclases
- lambda o funciones anónimas

#### librerias

- Python librerias
- Python pyodbc
- Python PycURL
- Python Pandas
- Python Bokeh

- Python argparse

**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


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- Curso python (PCPP1) PUE 2023 mate
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- Python iterables mate
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- Python: Entornos virtuales mate
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From:
https://matebcn.eu/ - **miguel angel torres egea**

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Last update: **19/02/2026 09:00**