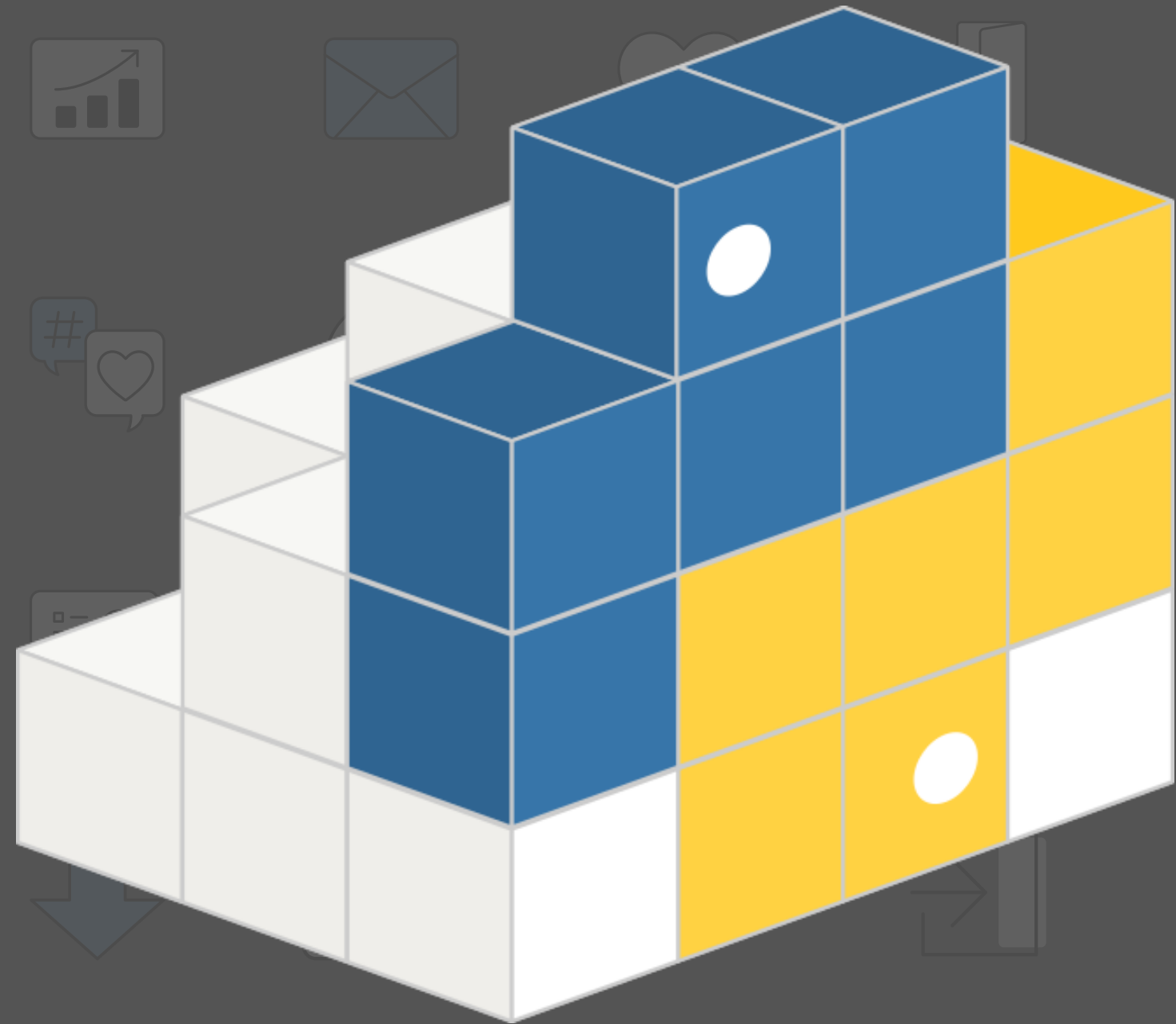


# Python y PIP

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Lic. Julián Escalante

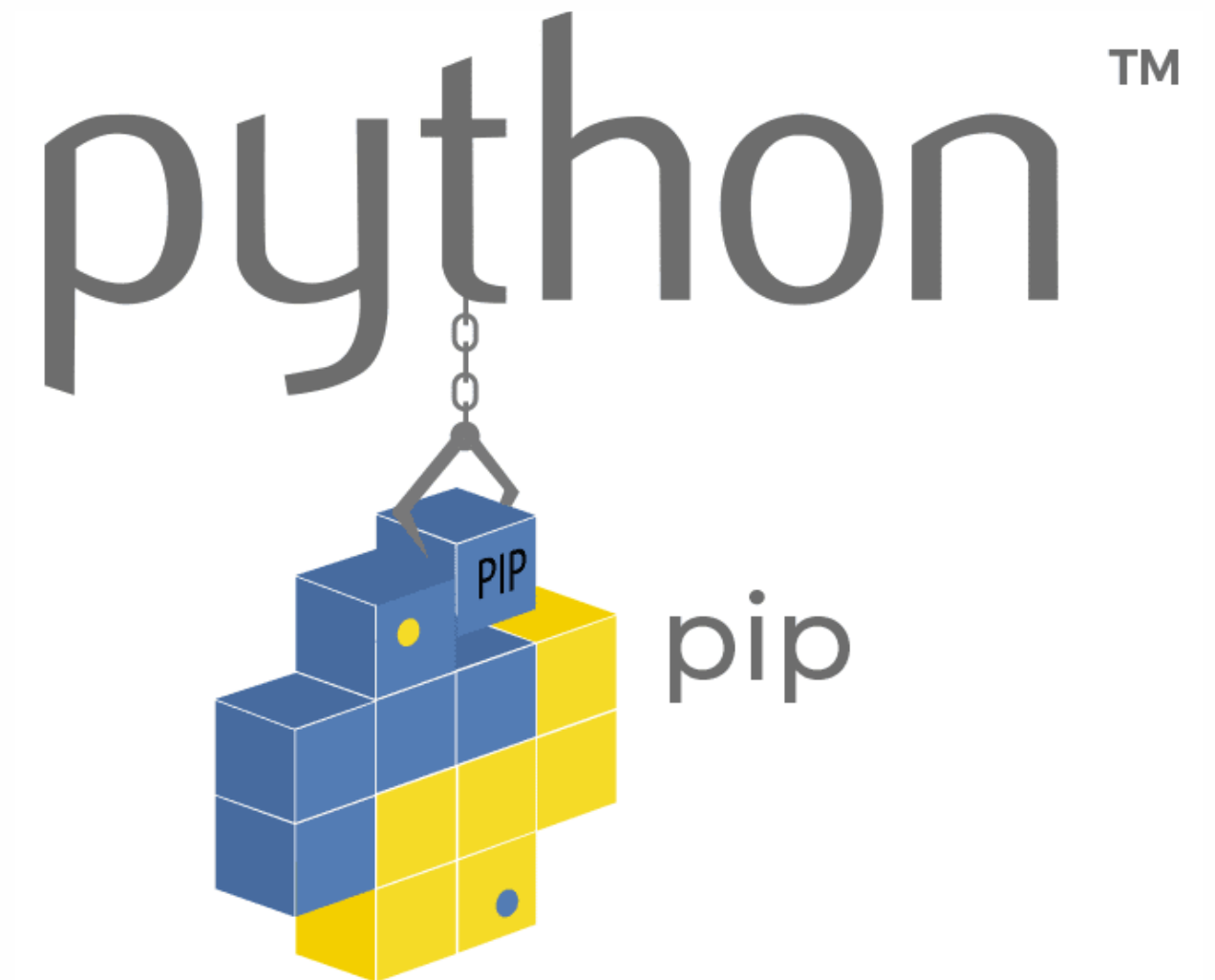


Ingeniería de Software II - 2022

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Python es un lenguaje de programación creado por Guido van Rossum a principios de los años 90. Se trata de un lenguaje interpretado o de script, con tipado dinámico, fuertemente tipado, multiplataforma y orientado a objetos.

Pip es el instalador o gestor de paquetes para Python.



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

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## 1º Paso: Instalar Python 3



Instaladores

¿Como saber si tengo Python instalado?

```
C:\WINDOWS\system32\cmd.exe - python

Microsoft Windows [Versión 10.0.16299.461]
(c) 2017 Microsoft Corporation. Todos los derechos reservados.

C:\Users\Francisco>python
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> _
```

```
jesc@jescalante: ~

jesc@jescalante:~$ python3
Python 3.8.10 (default, Mar 15 2022, 12:22:08)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> _
```

## ¿Cómo saber si tengo PIP instalado?

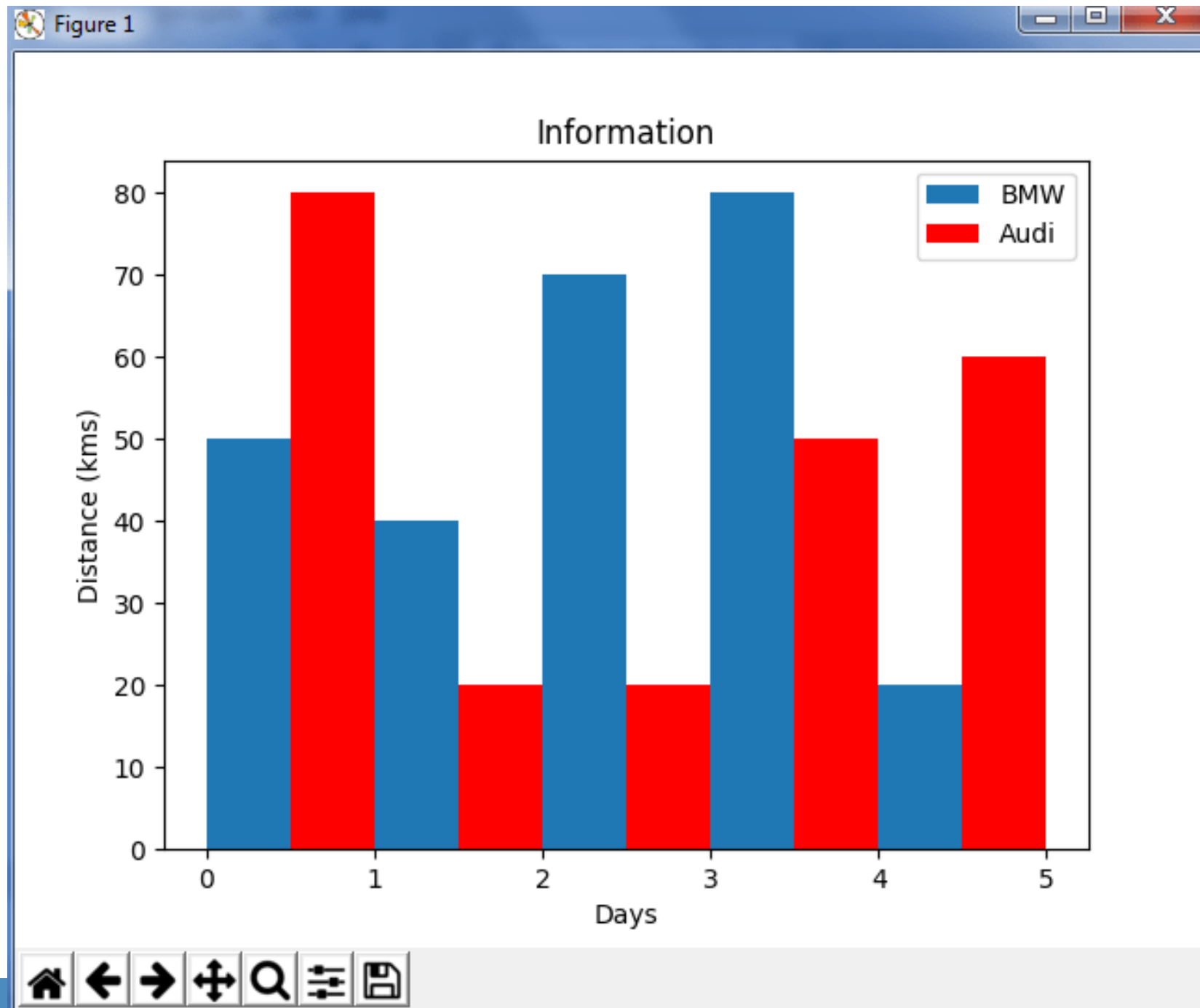
```
Usage:
  pip <command> [options]
```

```
Usage:
  pip <command> [options]

Commands:
  install          Install packages.
  download         Download packages.
  uninstall        Uninstall packages.
  freeze           Output installed packages in requirements format.
  list             List installed packages.
  show             Show information about installed packages.
  check            Verify installed packages have compatible dependencies.
  config           Manage local and global configuration.
  search           Search PyPI for packages.
  wheel            Build wheels from your requirements.
  hash             Compute hashes of package archives.
  completion       A helper command used for command completion.
  debug            Show information useful for debugging.
  help             Show help for commands.

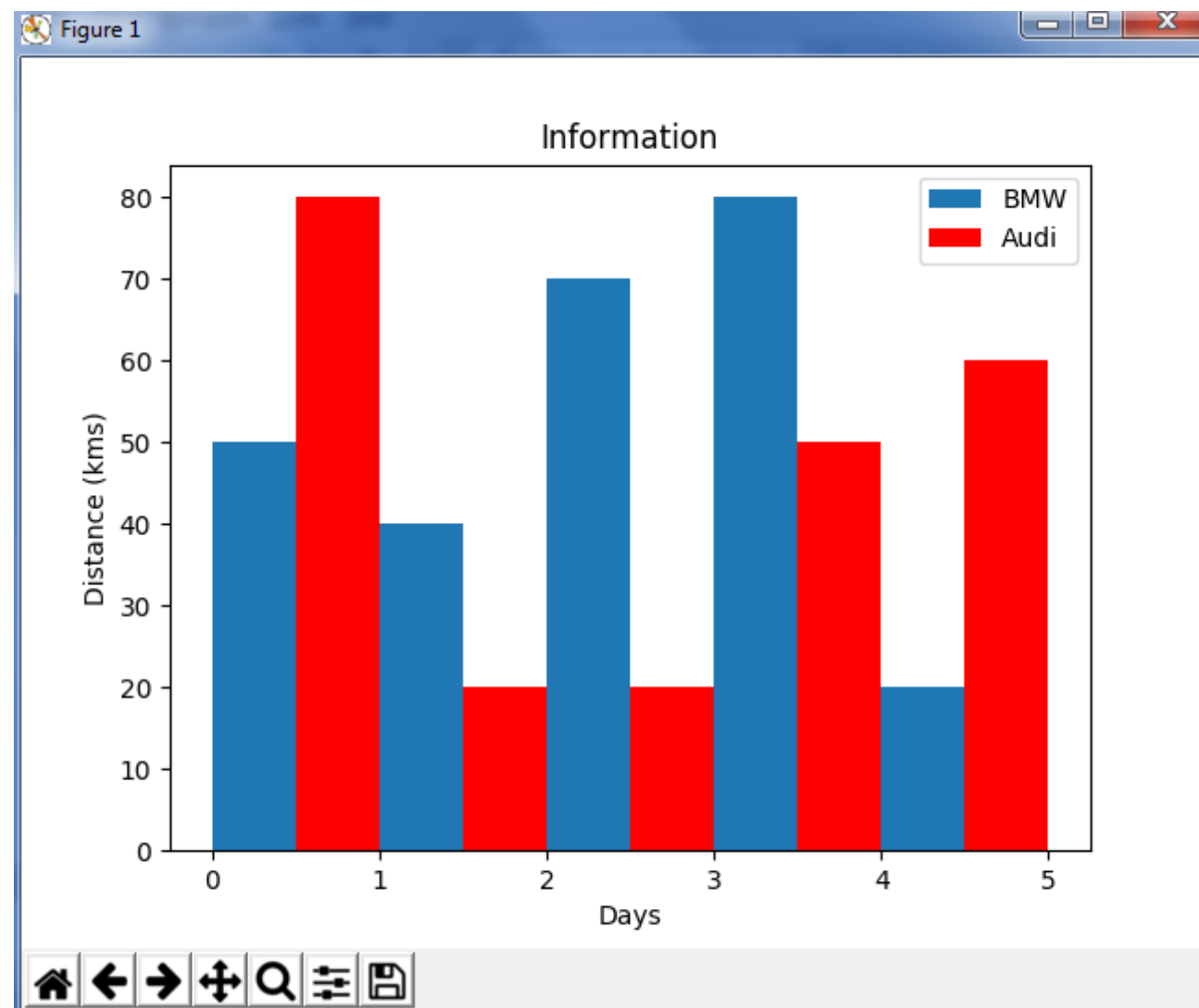
General Options:
  -h, --help       Show help.
  --isolated        Run pip in an isolated mode, ignoring
                   environment variables and user configuration.
  -v, --verbose     Give more output. Option is additive, and can be
                   used up to 3 times.
  -V, --version     Show version and exit.
  -q, --quiet       Give less output. Option is additive, and can be
                   used up to 3 times (corresponding to WARNING,
                   ERROR, and CRITICAL logging levels).
  --log <path>     Path to a verbose appending log.
  --proxy <proxy>  Specify a proxy in the form
                   [user:passwd@]proxy.server:port.
  --retries <retries> Maximum number of retries each connection should
```

## ¿Cómo usar PIP?



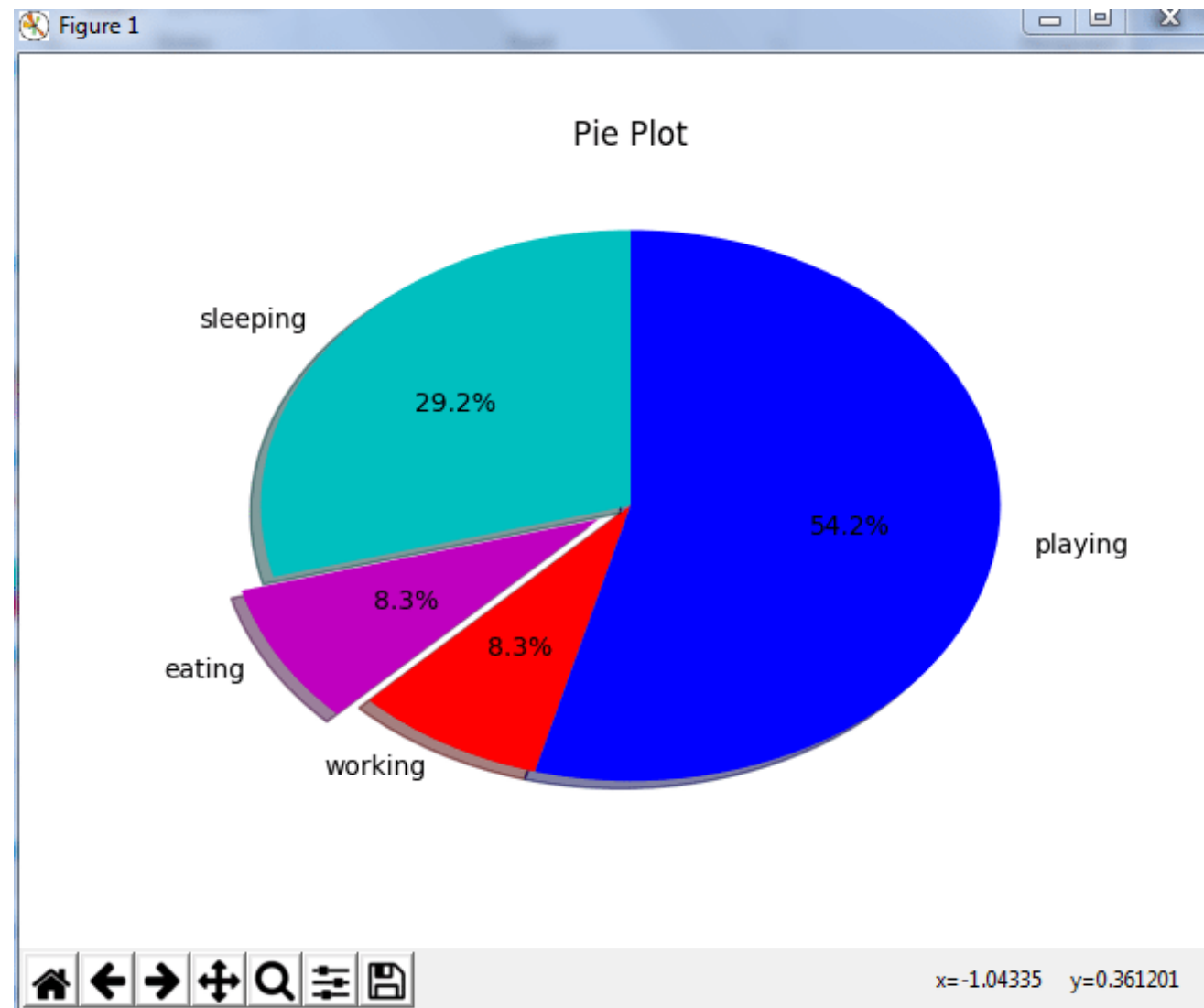
> pip install matplotlib

# Matplotlib - Bar



```
bar.py
1  from matplotlib import pyplot as plt
2
3  plt.bar([0.25,1.25,2.25,3.25,4.25],[50,40,70,80,20],
4  label="BMW",width=.5)
5  plt.bar([.75,1.75,2.75,3.75,4.75],[80,20,20,50,60],
6  label="Audi", color='r',width=.5)
7  plt.legend()
8  plt.xlabel('Days')
9  plt.ylabel('Distance (kms)')
10 plt.title('Information')
11 plt.show()
```

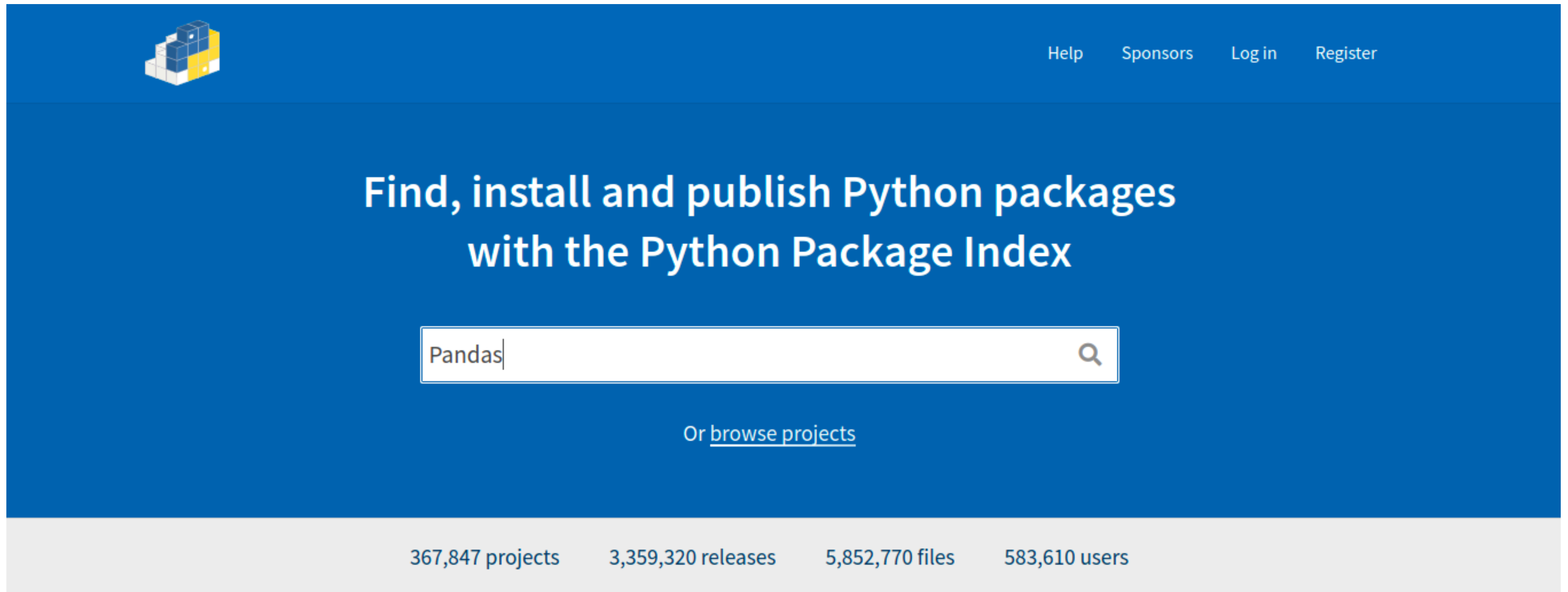
# Matplotlib - Pie




```
pie.py > ...
1  import matplotlib.pyplot as plt
2
3  days = [1,2,3,4,5]
4
5  sleeping =[7,8,6,11,7]
6  eating = [2,3,4,3,2]
7  working =[7,8,7,2,2]
8  playing = [8,5,7,8,13]
9  slices = [7,2,2,13]
10 activities = ['sleeping','eating','working','playing']
11 cols = ['c','m','r','b']
12
13 plt.pie(slices,
14         labels=activities,
15         colors=cols,
16         startangle=90,
17         shadow= True,
18         explode=(0,0.1,0,0),
19         autopct='%1.1f%%')
20
21 plt.title('Pie Plot')
22 plt.show()
```



## ¿Qué es Pypi.org?





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## Pandas3 0.0.1


`pip install Pandas3`


 [Latest version](#)



Released: Aug 21, 2019

Boto3 extension to help facilitate data science workflows with S3 and Pandas

### Navigation

 [Project description](#)

 [Release history](#)

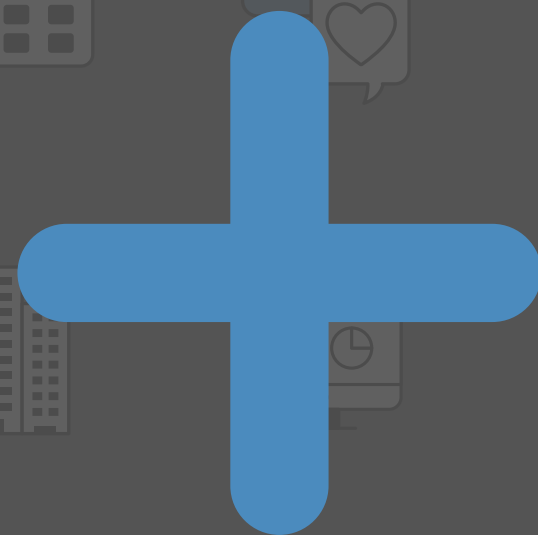
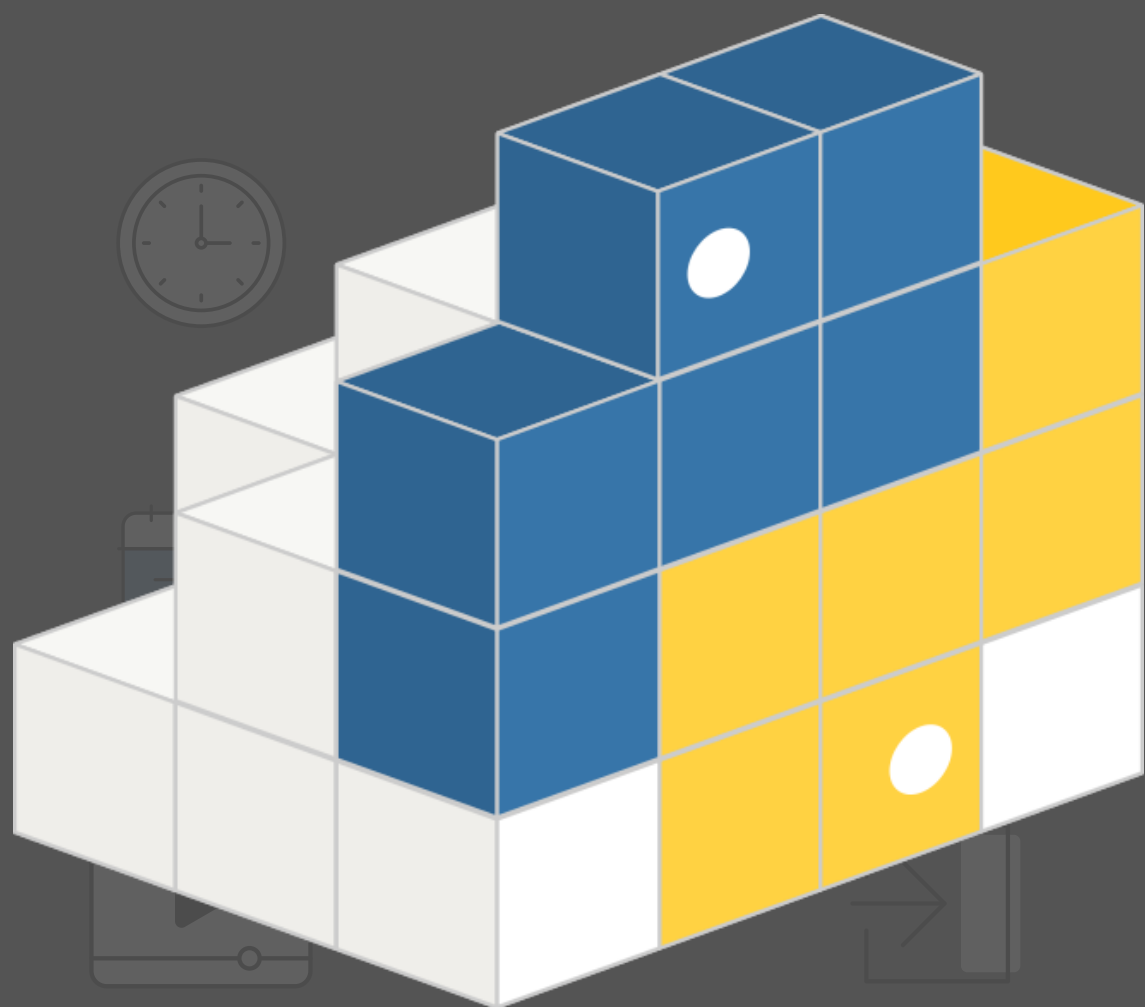
 [Download files](#) 

### Statistics

View statistics for this project via [Libraries.io](#), or by using [our public dataset on Google BigQuery](#)

### Project description

The author of this package has not provided a project description



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Jupyter Notebook es una aplicación web de código abierto que le permite crear y compartir documentos que contienen código en vivo, ecuaciones, visualizaciones y texto narrativo. Los usos incluyen: limpieza y transformación de datos, Visualización de datos, ML, entre otros

> pip install jupyter



<https://jupyter.org/>