



**POLYTECHNIQUE
MONTRÉAL**

UNIVERSITÉ
D'INGÉNIERIE

Tutorial for installation

INF8808E - Summer 2022

Python - Plotly

1 - Install Python:

- <https://www.python.org/downloads/>
- You should choose the version 3.8.2

2 - Install Virtual Environment:

- <https://pypi.org/project/virtualenv/>
- Example with pip:

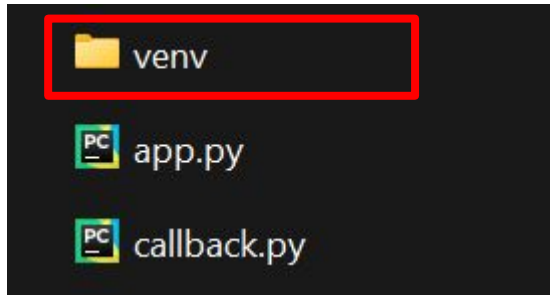
```
python -m pip install --user virtualenv
```

Python - Plotly

3 - On the directory that you have the app.py for the TP, create a virtualenv using the version 3.8.2:

```
python -m virtualenv -p python3.8 venv
```

A folder venv will be created:



Python - Plotly

4 - Activate your virtualenv:

- Windows:

```
venv\Scripts\activate
```

- Linux/MacOS:

```
source venv/bin/activate
```

A screenshot of a Windows command prompt terminal. The text "(venv) PS C:\Users\helle\Desktop" is displayed. The "(venv)" prefix is enclosed in a red rectangular box, and a red arrow points from the text below to this box.

```
(venv) PS C:\Users\helle\Desktop
```

This indicates that your
virtualenv is active

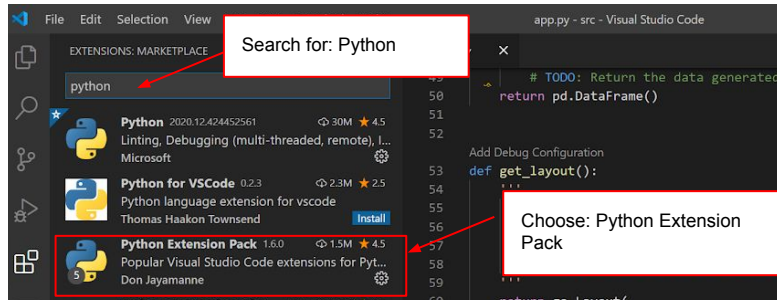
Python - Plotly

5 - With the virtualenv activated, install the project's requirements on the txt file:

```
python -m pip install -r requirements.txt
```

6 - Set up your interpreter. Here we are going to show the Visual Studio Code steps:

- Install Python extension in Visual Studio Code



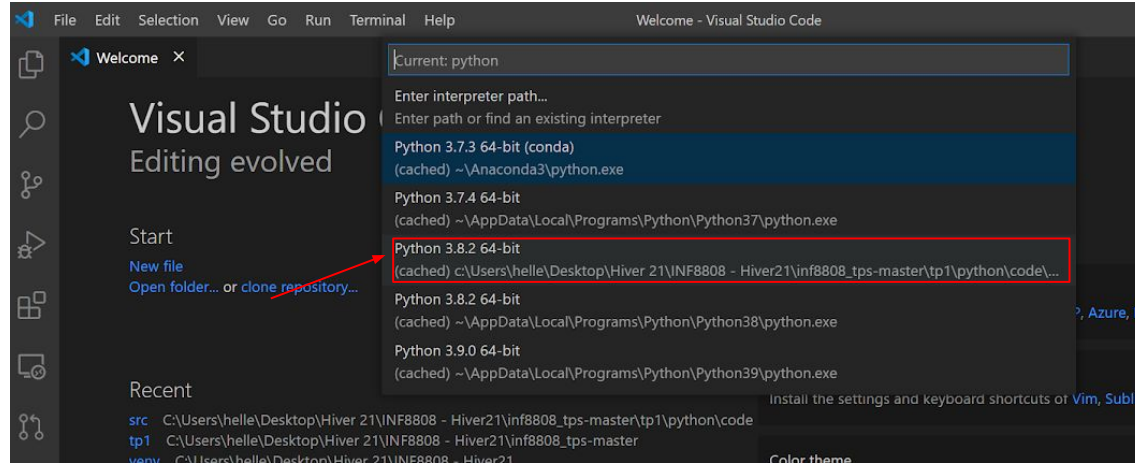
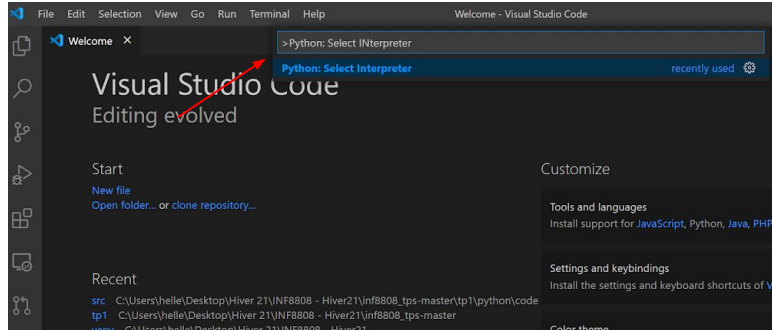
Go to: Extensions

Search for: Python

Choose: Python Extension Pack

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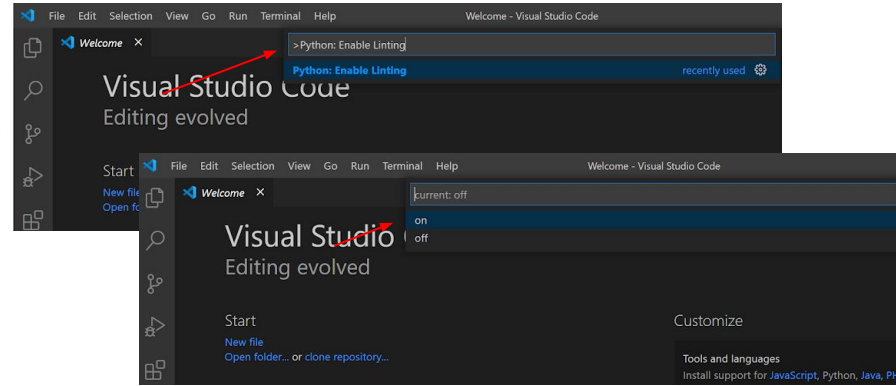
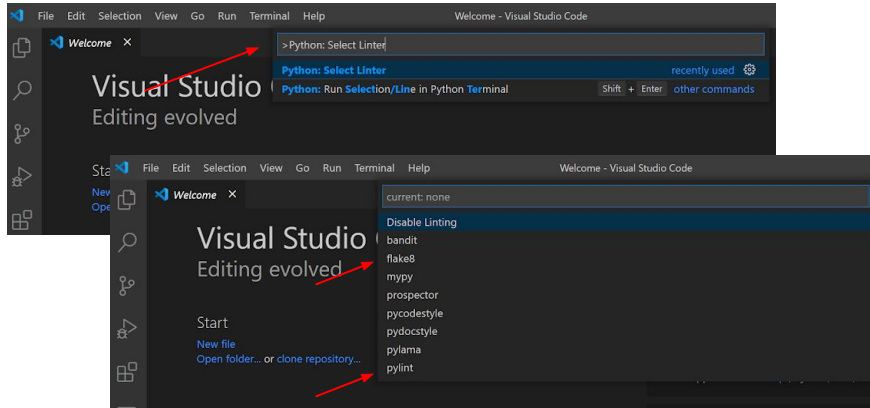
- Open the folder for TP1 in Visual Studio Code
- In command palette (Ctrl+Shift+P) search “Python: Select interpreter” and select the Python version located in the newly created virtualenv folder:



Python - Plotly

(Optional, but helpful)

- Make sure linting is working. By default in VSCode it should be enable, but you can go to the command palette and search “Python: Select Linter”, then select “pylint” and after “flake8”. Also search for “Python: Enable Linting” and make sure that is set to “on”:



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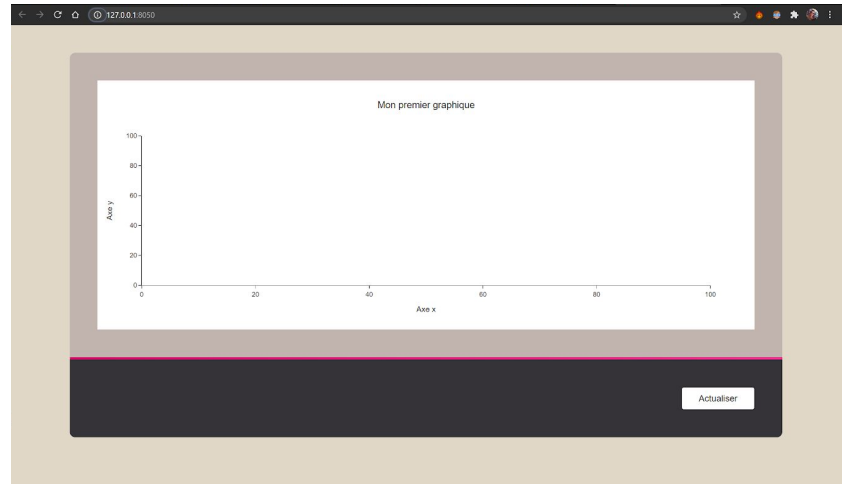
7 - In a terminal in the same directory as "app.py" and (venv) active:

```
python server.py
```

8 - See result in browser at : <http://127.0.0.1:8050>

```
11 | This file contains the entry point for TP1.
12 | ...
13 |
14 | import dash
15 | from dash_core_components import Graph
16 | import dash_html_components as html

TERMINAL PROBLEMS 7 OUTPUT DEBUG CONSOLE 1: python + [ ]
(venv) PS C:\Users\helle\Desktop\Hiver 21\INF8808 - Hiver21\inf8808_tps-master\tp1\python\code\src> python server.py
* Serving Flask app "app" (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 159-013-468
* Running on http://127.0.0.1:8050/ (Press CTRL+C to quit)
```



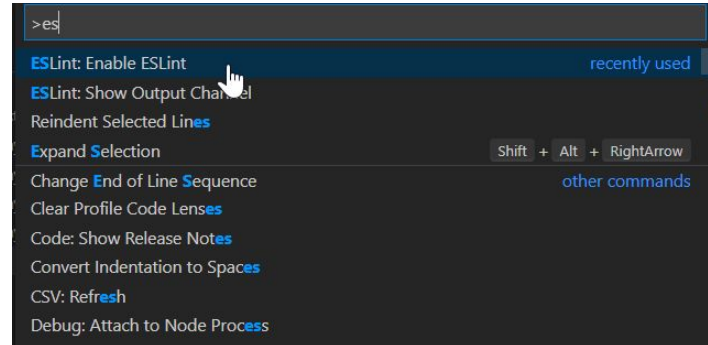
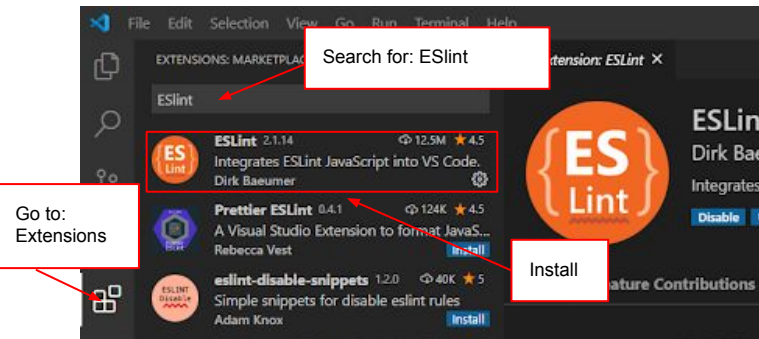
JS - D3

1 - Install npm:

- <https://www.npmjs.com/get-npm>

2 - Set up ESLint (optional, but useful):

- Install ESLint extension in Visual Studio Code
- Enable linting in the command palette (Ctrl+Shift+P): “ESLint: Enable ESLint”



JS - D3

3 - Run the code:

- IN a terminal, in the same folder as “package.json”, run:

npm install

- After, in the same folder, you can run the code with:

npm start

- See result in browser at: <http://127.0.0.1:8080>

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  1: node

64"))

added 905 packages from 507 contributors and audited 907 packages in 194s

32 packages are looking for funding
  run `npm fund` for details

found 6 vulnerabilities (5 low, 1 high)
  run `npm audit fix` to fix them, or `npm audit` for details
PS C:\Users\helle\Desktop\Hiver 21\INF8808 - Hiver21\inf8808_tps-master\tp1\js\code> npm start
> tp1@1.0.0 start C:\Users\helle\Desktop\Hiver 21\INF8808 - Hiver21\inf8808_tps-master\tp1\js\code
> parcel ./src/index.html --log-level=2 --port=8080

Browserslist: caniuse-lite is outdated. Please run:
  npx browserslist@latest --update-db
Browserslist: caniuse-lite is outdated. Please run:
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Browserslist: caniuse-lite is outdated. Please run:
  npx browserslist@latest --update-db
Browserslist: caniuse-lite is outdated. Please run:
  npx browserslist@latest --update-db
```

