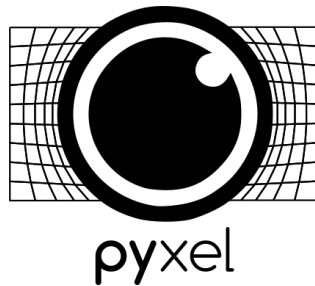# Getting Started with Python and `pyxel-dic`

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1 For those familiar with python

We recommand to create a new virtual environment and then install `pyxel-dic` library using the following command:

```
pip install pyxel-dic
```

Be carefull to install `pyxel-dic` and not simply `pyxel` which is a retrogamming library :)

2 For those less familiar with python

This tutorial will guide you step by step to set up your computer, even if you've never used Python before. At the end, you'll be ready to use the **pyxel-dic** library.

2.1 Install Anaconda

If you have already a prefered installation of Python on your computer, you can skip this step.

Anaconda is a free distribution of Python that makes it easier to manage environments and packages.

1. Go to the official download page: `https://www.anaconda.com/download`.

2. Download the version for your operating system (Windows, macOS, or Linux).

3. Run the installer:

   - On Windows, double-click the `.exe` file.
   - On Mac, open the `.pkg` file.
   - On Linux, run the `.sh` script.

4. Follow the installation steps:

   - Accept the license.
   - Install for "Just Me" (recommended).
   - Leave default options checked.

2.2 Open the Anaconda Prompt

After installation:

- **Windows:** Open the Start Menu, search for `Anaconda Powershell Prompt`, and click it.

- **macOS/Linux:** Open `Terminal`.

2.3 Create a Virtual Environment

A virtual environment keeps your Python projects clean and separated.

```
conda create -n pyxel-env python=3.11
```

- `pyxel-env` is the name of the environment.

- `python=3.11` specifies the version of Python.

When asked to proceed, type `y` and press Enter.

2.4 Activate the Environment

```
conda activate pyxel-env
```

2.5 Install Spyder or Jupyter Notebook

Choose one of these tools to write and run Python code:
    For Spyder (MATLAB-like editor) (recommended):

```
conda install spyder
```

For Jupyter Notebook (interactive notebooks):

```
conda install jupyter
```

You may install both if you prefer.

3 Install pyxel-dic

With your environment activated, install `pyxel-dic` using `pip`:

```
pip install pyxel-dic
```

Be carefull to install `pyxel-dic` and not simply `pyxel` which is a retrogamming library :)

4 Start Coding

- If you installed Spyder, start it by typing:

```
spyder
```

- If you installed Jupyter Notebook, start it with:

```
jupyter notebook
```

Then create a new Python file or notebook and test:

```python
import pyxel
print("pyxel-dic is installed and ready!")
```