

## Python 3.7.8 package installation:

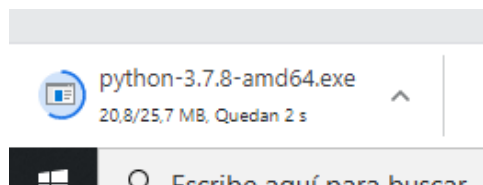
We enter the following link:

- <https://www.python.org/downloads/release/python-378/>

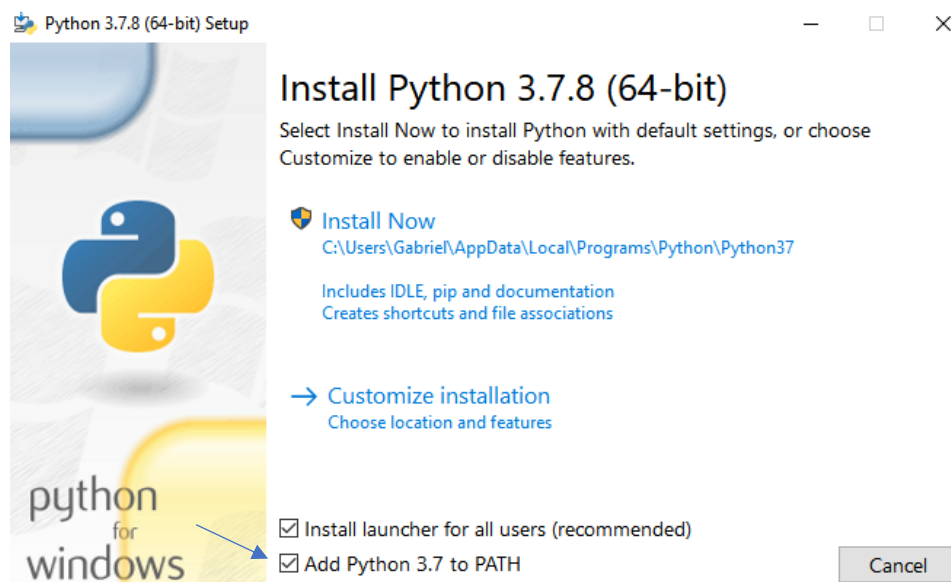
We go down the page to the Files area and click on Windows x86-64 executable installer.

Files					
Version	Operating System	Description	MD5 Sum	File Size	GPG
<a href="#">Gzipped source tarball</a>	Source release		4d5b16e8c15be38eb0f4b8f04eb68cd0	23276116	<a href="#">SIG</a>
<a href="#">XZ compressed source tarball</a>	Source release		a224ef2249a18824f48fba9812f4006f	17399552	<a href="#">SIG</a>
<a href="#">macOS 64-bit installer</a>	Mac OS X	for OS X 10.9 and later	2819435f3144fd973d3dea4ae6969f6d	29303677	<a href="#">SIG</a>
<a href="#">Windows help file</a>	Windows		65bb54986e5a921413e179d2211b9bfb	8186659	<a href="#">SIG</a>
<a href="#">Windows x86-64 embeddable zip file</a>	Windows	for AMD64/EM64T/x64	5ae191973e00ec490cf2a93126ce4d89	7536190	<a href="#">SIG</a>
<a href="#">Windows x86-64 executable installer</a>	Windows	for AMD64/EM64T/x64	70b08ab8e75941da7f5bf2b9be58b945	26993432	<a href="#">SIG</a>
<a href="#">Windows x86-64 web-based installer</a>	Windows	for AMD64/EM64T/x64	b07dbb998a4a0372f6923185ebb6bf3e	1363056	<a href="#">SIG</a>
<a href="#">Windows x86 embeddable zip file</a>	Windows		5f0f83433bd57fa55182cb8ea42d43d6	6765162	<a href="#">SIG</a>
<a href="#">Windows x86 executable installer</a>	Windows		4a9244c57f61e3ad2803e900a2f75d77	25974352	<a href="#">SIG</a>
<a href="#">Windows x86 web-based installer</a>	Windows		642e566f4817f118abc38578f3cc4e69	1324944	<a href="#">SIG</a>

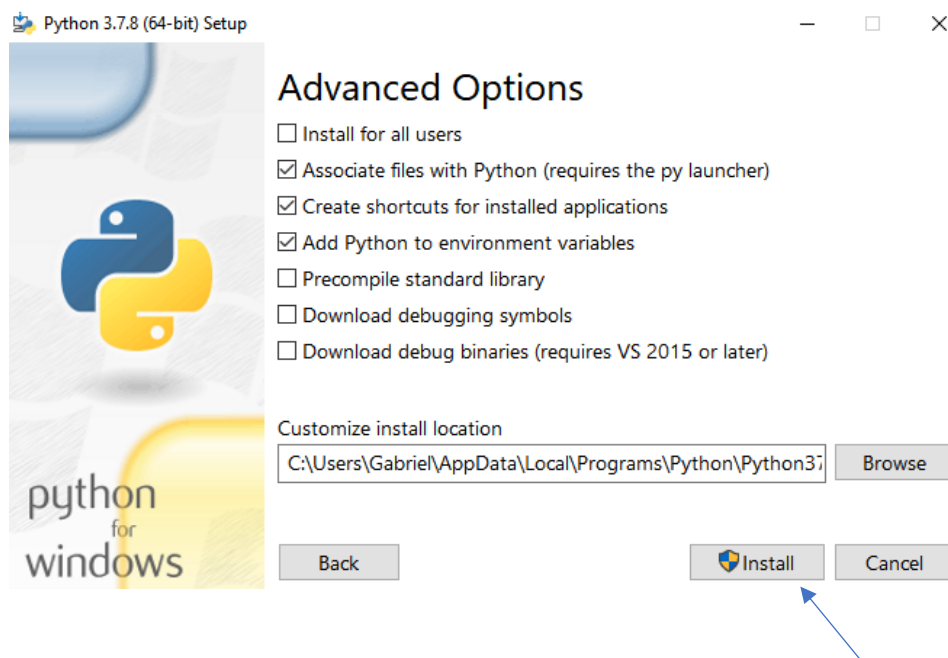
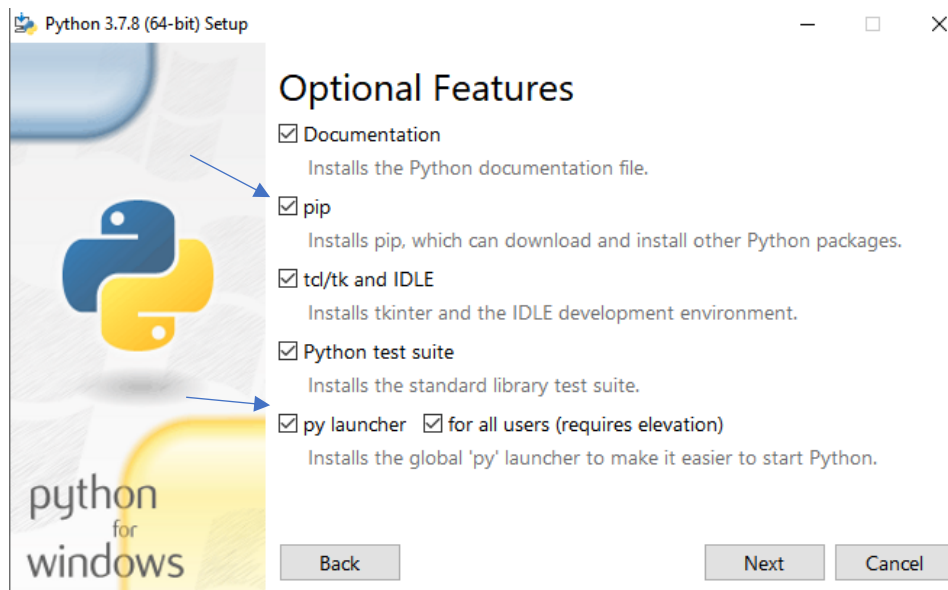
After that, the package will be downloaded:



Once the download process is finished, we double click to run the Python installer.



Click on Add Python 3.7 to PATH and continue with Customize installation.



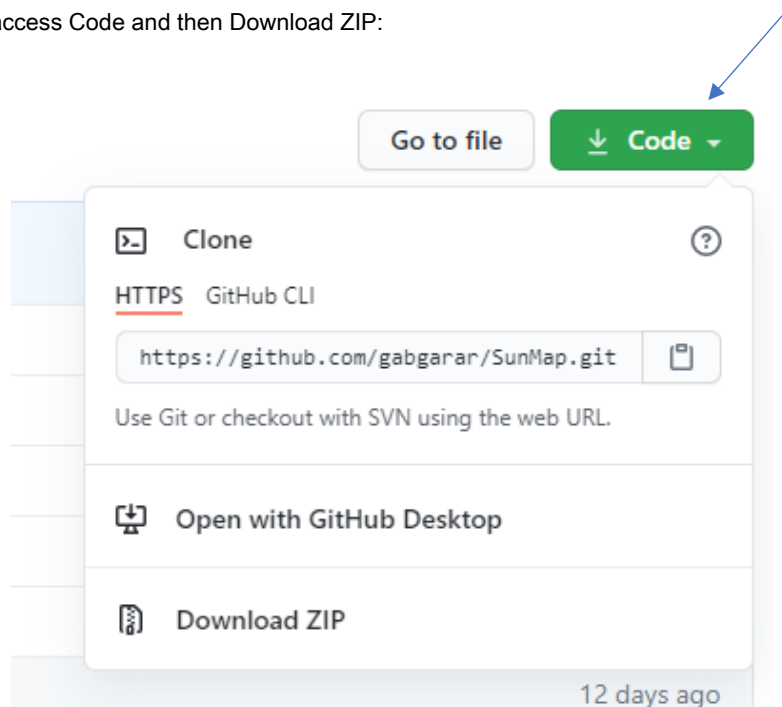
And click on Install.

## SunMap Program Installation

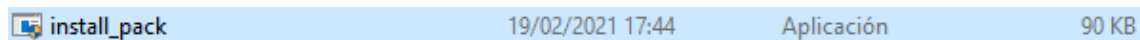
We access the url of the repository where the program can be found:

- <https://github.com/gabgarar/SunMap>

From there, we access Code and then Download ZIP:



After that, a folder named SunMap-main will be downloaded, within it, click on the install\_pack file, which will be an executable with the installation instructions for each package on which the program depends.



A terminal will open, in which you can see the different installation commands using pip:



```
C:\Users\Gabriel\Desktop\SunMap-main\install_pack.exe
Collecting squircle
  Downloading squircle-0.2.0.tar.gz (4.8 kB)
  Building wheels for collected packages: squircle
    Building wheel for squircle (setup.py) ... done
  Created wheel for squircle: filename=squircle-0.2.0-py3-none-any.whl size=4793 sha256=48c6c86fd99f4a0d1af49e885dc
d091eea464406164d3daaa853b8dc18e
  Stored in directory: c:\users\gabriel\appdata\local\pip\cache\wheels\b6\b7\ff\82c18d690216275e0e86dc22966ff5694e4
874022af03
Successfully built squircle
Installing collected packages: squircle
Successfully installed squircle-0.2.0

C:\Users\Gabriel\Desktop\SunMap-main>pip install reproject
Collecting reproject
  Downloading reproject-0.7.1-cp37-cp37m-win_amd64.whl (872 kB)
    | 872 kB 1.7 MB/s
Collecting scipy>=1.1
  Downloading scipy-1.6.1-cp37-cp37m-win_amd64.whl (32.6 MB)
    | 32.6 MB 1.3 MB/s
Requirement already satisfied: astropy>=3.2 in c:\users\gabriel\appdata\local\programs\python\python37\lib\site-pac
(from reproject) (4.2)
Collecting astropy-healpix>=0.2
  Downloading astropy_healpix-0.5-cp37-cp37m-win_amd64.whl (51 kB)
    | 51 kB 3.4 MB/s
Requirement already satisfied: numpy>=1.13 in c:\users\gabriel\appdata\local\programs\python\python37\lib\site-pack
(from reproject) (1.20.1)
Requirement already satisfied: pyerfa in c:\users\gabriel\appdata\local\programs\python\python37\lib\site-packages
(astropy>=3.2->reproject) (1.7.2)
Installing collected packages: scipy, astropy-healpix, reproject
```

When the entire process of downloading and installing the packages is finished, you should exit in the terminal:

```
C:\Users\Gabriel\Desktop\SunMap-main>pause  
Presione una tecla para continuar . . .
```

After that, the application can be run using the `exec_ui` executable if you want to use a graphical interface or `exec_bath`, if you want to use the command terminal.

 <code>exec_bath</code>	19/02/2021 17:44	Aplicación	89 KB
 <code>exec_ui</code>	19/02/2021 17:44	Aplicación	89 KB

