

GEO\_GPL\_Download is a useful tool to automatically download a list of GPL files from the GEO (Gene Expression Omnibus) database.

Requirements: any operating system (Linux, Mac OS X, Windows, ...) with Python 2 or Python 3 and IDLE.

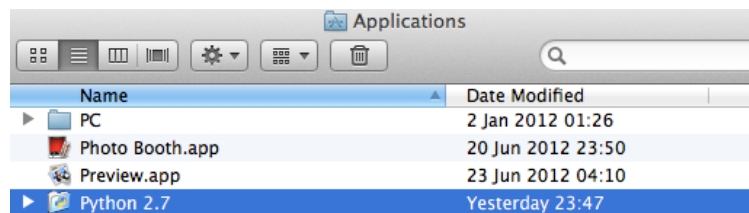
[GEO\\_GPL\\_Download\\_2.py](#) is for [Python 2](#).

[GEO\\_GPL\\_Download\\_3.py](#) is for [Python 3](#).

Mac users may incur in the following errors: "EOF occurred in violation of protocol" or "SSL: TLSV1\_ALERT\_PROTOCOL\_VERSION".

The solution is to install the certifi package, or bypass certificate validation using [GEO\\_GPL\\_Download\\_3.9.py](#) with [Python 3.9 or above](#).

## Installation



In the “Applications” folder, verify which is the installed version of Python.

If none or old, download the latest version from <http://www.python.org/download/> (IDLE is included in the installer).



Install the downloaded version of Python as usual: double-click on the “python-3.9.1macosx10.9.mpkg” file to install Python.

When Python appears in the “Applications” folder, the system is well configured.

## Usage

A text file with the GPL sample list and a copy of GEO\_GPL\_Download application need to be **in the same folder**. The following steps will guide the user to download the desired platform files.

1. Create a folder (wherever and called as you prefer).

2. In this folder, save a copy of “[GEO\\_GPL\\_Download\\_3.9.py](#)”.

3. Create and save in the same folder a text file **exactly** called “[GPL\\_List.txt](#)”. This is the list of the GPL files that you want to download. The GPL files can be listed **one-to-one and/or as a series**, for example:

```
GPL1352
GPL13607
GPL1823...GPL1826
```

**Attention: do not type any space character.**

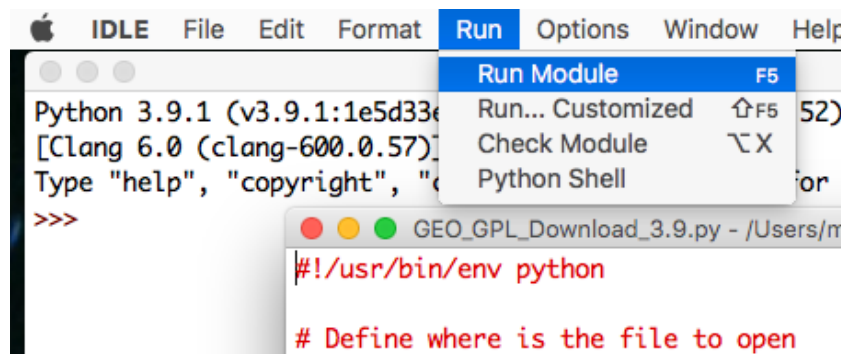
This file can be created with Word, Excel, Tex-Edit Plus, ... choosing “Save As...” and the option “**Text (txt)**”. **Please note that rtf file format is not supported.**

A “GPL\_List.txt” example file is available in the folder along with this guide.

4. Double-click on the “GEO\_GPL\_Download\_3.9.py” file and two windows of “IDLE” will appear: “GEO\_GPL\_Download\_3.9.py” and “IDLE Shell 3.9.1”.

If different Python IDLE are present, please verify that the version used to open the file is the latest, otherwise press the Control key when you tap the mouse button to open the “GEO\_GPL\_Download\_3.9.py” and chose the 3.9 version.

5. Click on the “GEO\_GPL\_Download\_3.9.py” (or “GPL\_Download\_3.py”) window and select “Run Module” from the “Run” menu.



6. The program is finished when the “Download completed” message appears in the “IDLE Shell”.

The GPL files (named as “GPL1352.txt”, “GPL3452.txt”, ...) are downloaded as text files in the folder created in the first step.

