

Read Me:

These files are implemented in **Python 3.7**.

## MacOS

Copy the files on the desktop so that it is easy to reference.

- Check your python version in the terminal
  - Python --version (the version should be 3.7, if not, change the version)
  - If you have problems changing the interpreter then follow the steps given in the problem section.
- 1. Installing libraries:
  - a. Open terminal and type the command
    - i. `cd desktop/project`
    - ii. `Python profile.py`
- 2. Implementation
  - a. Open the main.kv file and edit lines 15, 195, 235 in order to locate the figure "1.jpg".
  - b. Run the app.python file using the command "python app.python"
- 3. GUI
  - a. Geneset file
    - i. CSV (comma separated values) with the samples in columns. The first row contains sample names and the first column contains gene identifiers. "Entrez gene" is used as an identifier for genes selection.
  - b. Pathway file
    - i. Txt file with first column containing identifier for different genesets referred using "pathway".
    - ii. Third column contains gene ids which are identified by "entrez\_gene\_ids".
- 4. The files should be in the same format as mentioned above. I would recommend using pycharm to run all of these files. An example of the files is also provided in the folder. If you cannot download libraries by running profile.py, setup files for libraries are also provided separately for Mac and Windows.
- 5. A common mistake is usually done while running the files in the terminal using python 2.7 interpreter. Make sure you are using a Python 3.7 interpreter. In Pycharm, you can easily change the interpreter based on the requirement.

Still facing problems installing libraries because of python 2.7?

1. Open terminal and install libraries manually
  - `python3 -m pip install kivy`
  - `Python3 -m pip install kivy-garden`
  - `python3 -m pip install matplotlib`
  - `python3 -m pip install scipy`
  - `python3 -m pip install sklearn`
  - `python3 -m pip install shapely`
  - `python3 -m pip install pandas`

1. To run

Python3 app.py

Windows:

1. Open the main.kv file and edit lines 15, 195, 235 in order to locate the figure "1.jpg"
2. Go to the link below and download kivy as per instructions.  
<https://kivy.org/doc/stable/installation/installation-windows.html>
3. Install the libraries by the command python profile.py. If you haven't used conda in 2 then make sure you have installed the libraries in the same environment. Kivy\_venv is the environment if you follow 2.
4. If you get an error while installing garden.matplotlib then copy the garden.matplotlib master file given with the project files, rename it as "matplotlib" and paste it in the path "environment name"/lib/site-packages/kivy/garden. This is found in your environment folder.
5. Run the program using python app.py with the said environment.