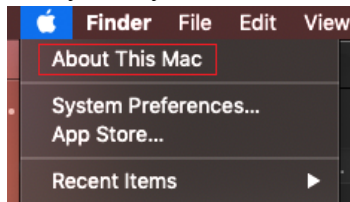


# Installation for Mac

## A. Installing Python

1. Make sure your Mac OS is update to date, or at least at 10.9. Click on the Apple Logo on the top-left corner of your screen, then click on “**About this Mac**” to verify the system version.



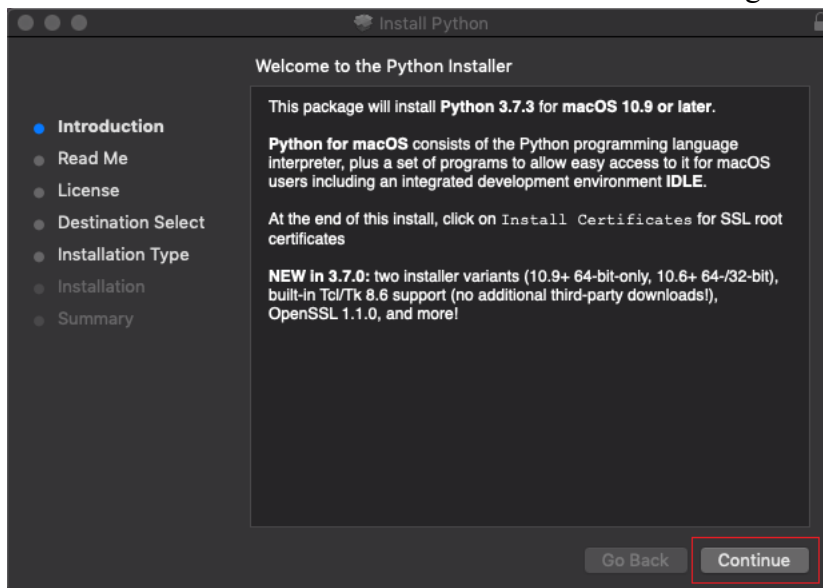
If the system does not meet this requirement, go to “**System Preferences**”, then “**Software Updates**” to update.

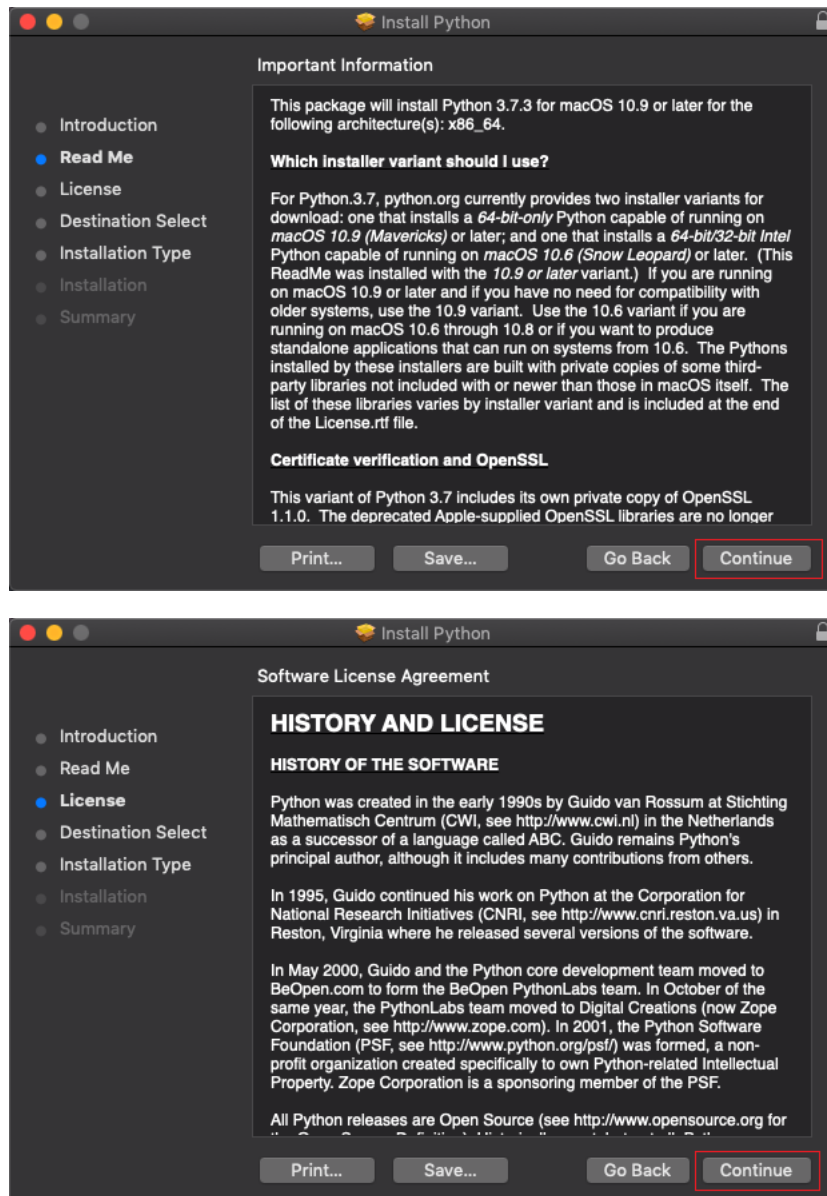
2. Go to <https://www.python.org/downloads/> and click on the Button “**Download Python 3.7.3**” The download should start automatically.

**Download the latest version for Mac OS X**

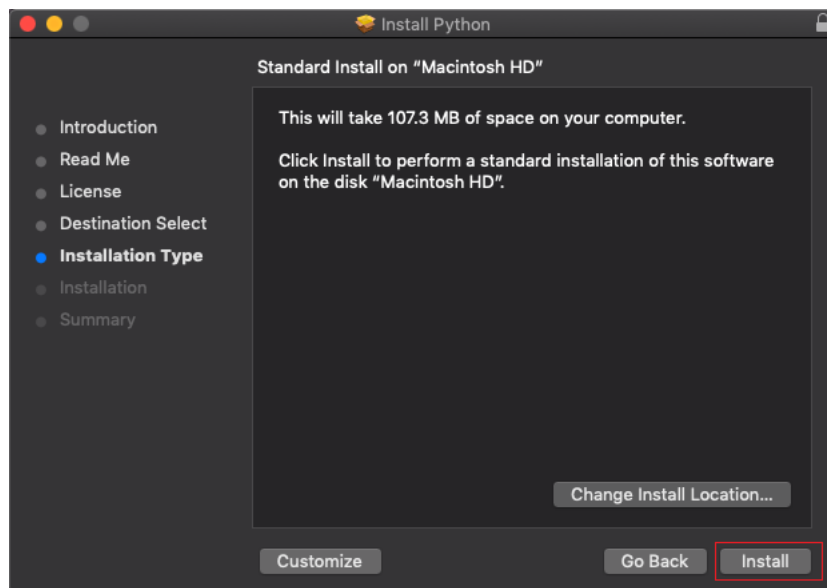
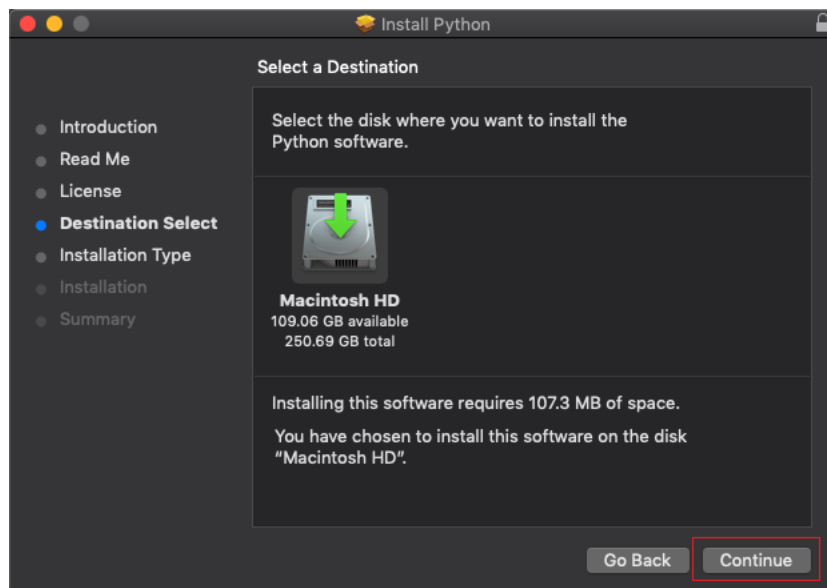
Download Python 3.7.3

3. Open the installer and you shall see the screen below, follow the red rectangles on each screen to finish the installation with all default settings.





If a window pops up for Confirmation of the Agreements, click “**Agree.**”



Wait for the installation to finish, then exit the installer.

## B. Installing PyCharm

1. Download Mac OS X of PyCharm from:  
<https://www.jetbrains.com/pycharm/download/#section=mac>, select the  
**“Community”** version to download.

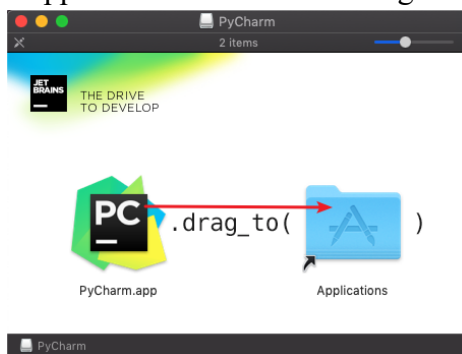
### Community

For pure  
Python development

DOWNLOAD

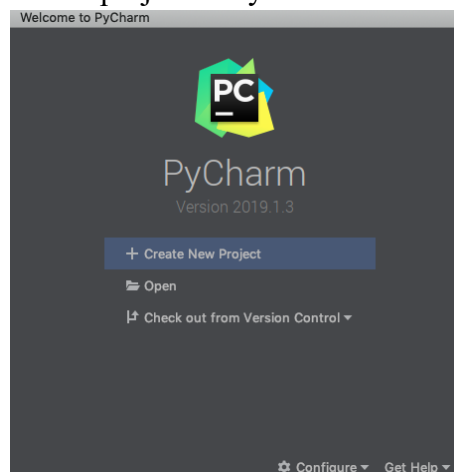
Free, open-source

2. Click to run the installer and drag the “PyCharm.app” on the left to  
**“Applications”** folder on the right. Wait for the auto-installation to finish.



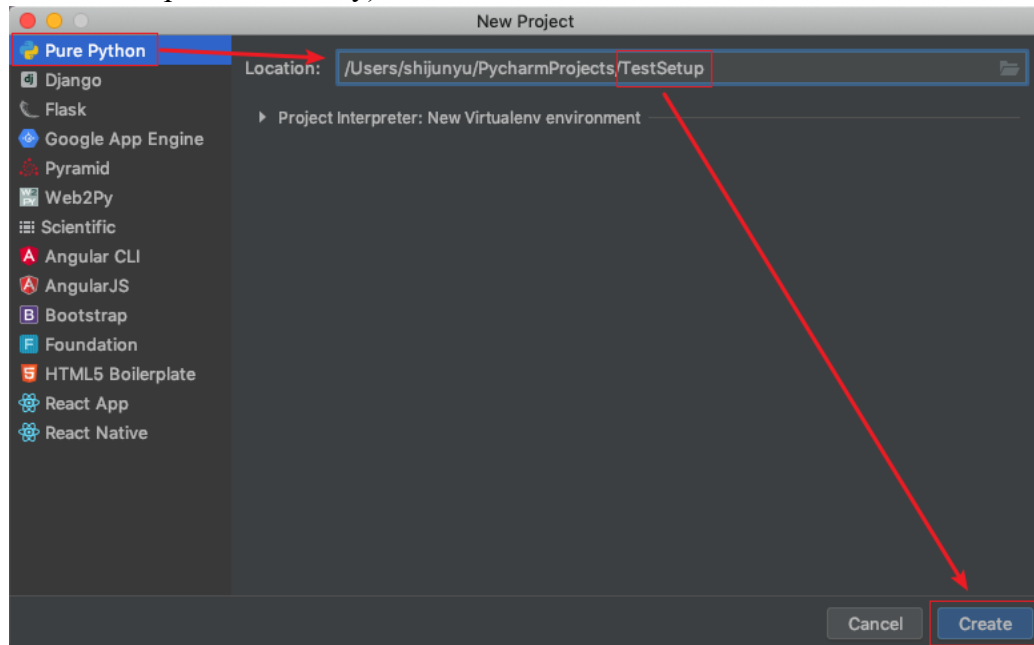
3. Launch PyCharm from Launchpad and add it to your Dock by right clicking on the icon and choosing **Options, Keep in Dock**. Running PyCharm for the first time will ask you to configure the editor, follow the screens below to finish setup.  
 [Insert Screenshots Here]

- Import PyCharm Settings: **“Do not import settings,”** then **“OK”**.
- Select the user interface theme: Choose a theme that you like, then **“OK”**.
- Download and install additional plugins: No additional plugins are needed; we can just click **“OK”**.
- Start a project in PyCharm: **“Create New Project”**. Then go to **section C**.

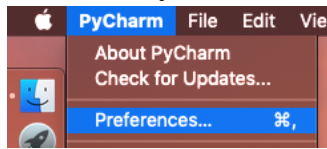


## C. Configuring PyCharm to work with Python and Pygame

1. Choose “Pure Python,” then select a desired location for your projects, and give it a name such as “TestSetup” in the last tag. (the example directory below is “PycharmProjects/TestSetup”, in which the project name(folder) is separated by a ‘/’ from the parent directory)

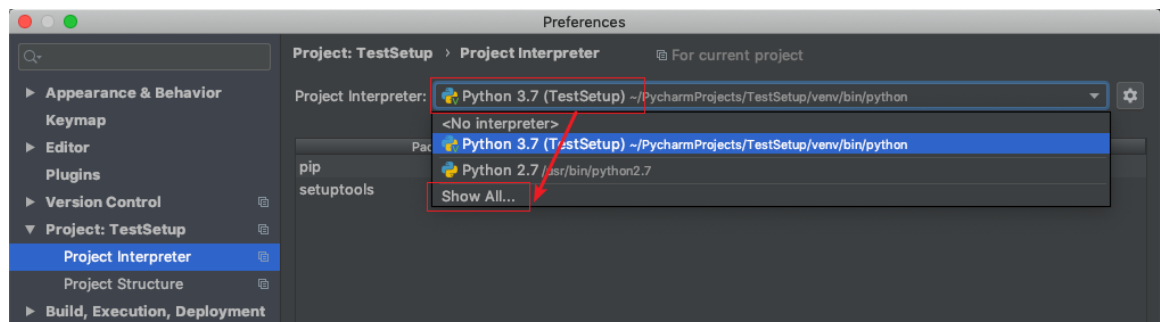


2. Click on “PyCharm” on the top-left menu bar, then click “Preferences”

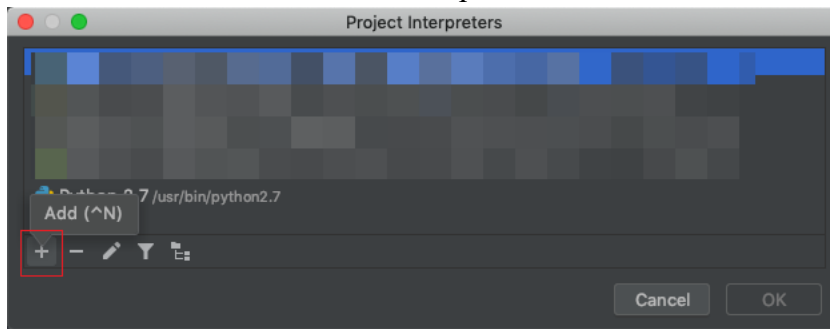


3. On the left navigation panel, go to **Project: [YourProjectName]** and expand it, select “Project Interpreter”. (See screen below)

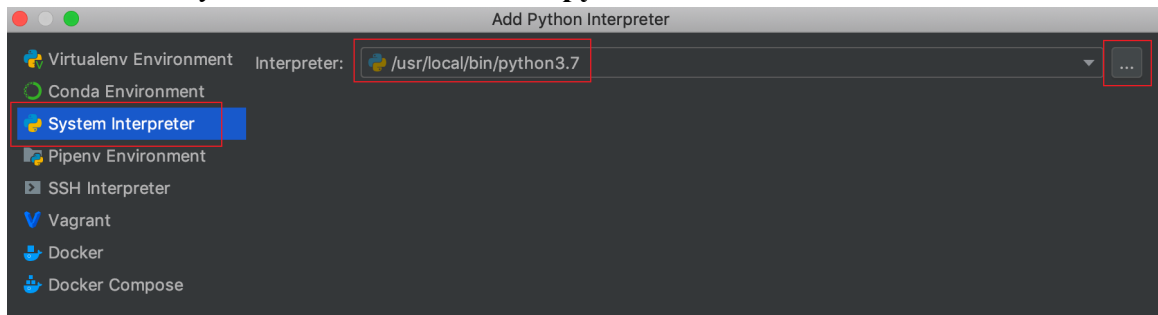
Verify the Project Interpreter to be Python 3.7: if not, click on the upper rectangle area to open the drop-down menu, if no Python 3.7 is available, then click “Show All...”



Click “+” button to add a new Interpreter.

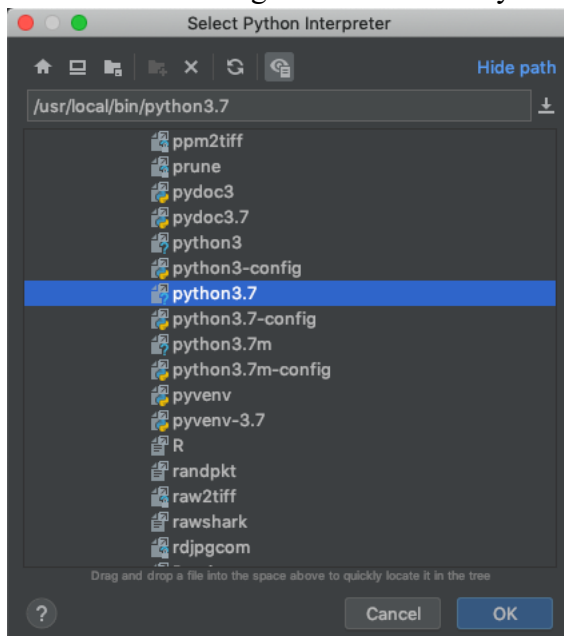


On the left Navigation panel, click on “**System Interpreter**”, then click the interpreter input box to open the drop-down menu, look for Python 3.7 options, which is usually located as “**/usr/local/bin/python3.7**”

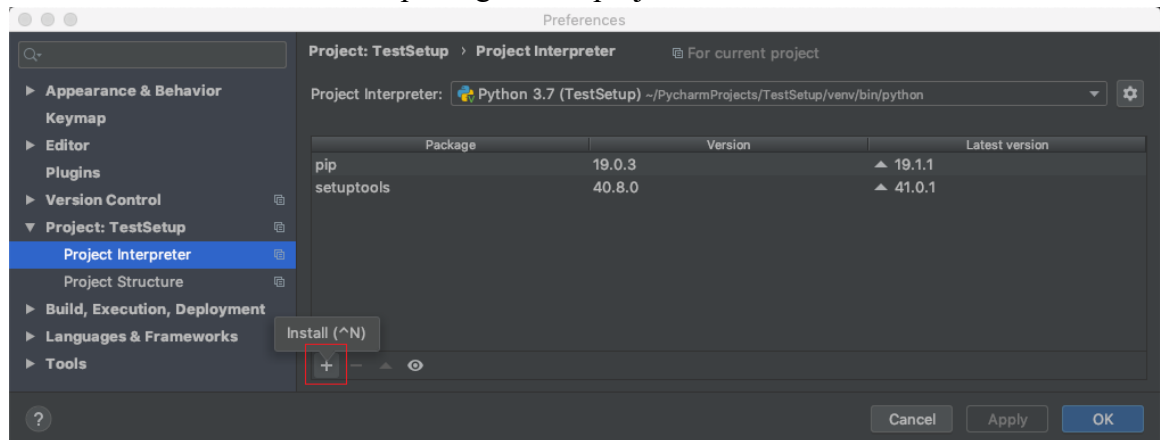


If there is no option of python 3.7, click on the “...” on the right end of “Interpreter” and find the python3.7 file in the following directory: “**/usr/local/bin/python3.7**”, then click “**OK**”.

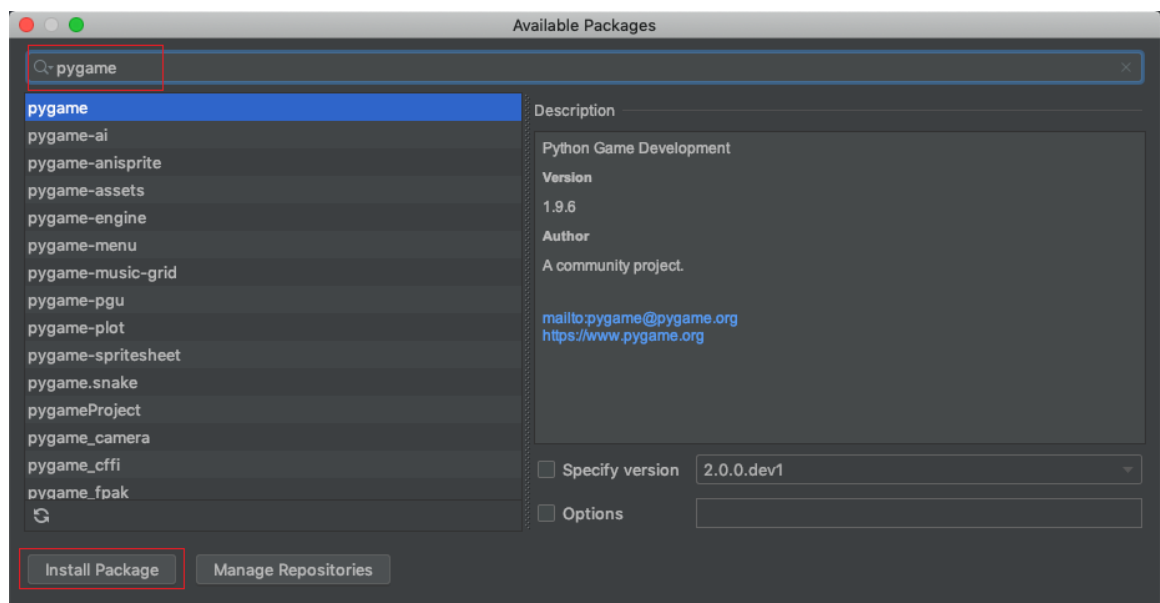
Then click “**OK**” again on the “Add Python Interpreter” screen.



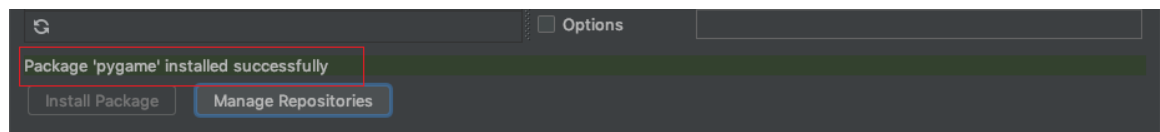
4. Now we are back to Preference screen under “Project Interpreter” section. Click “+” button to add a new package to the project.



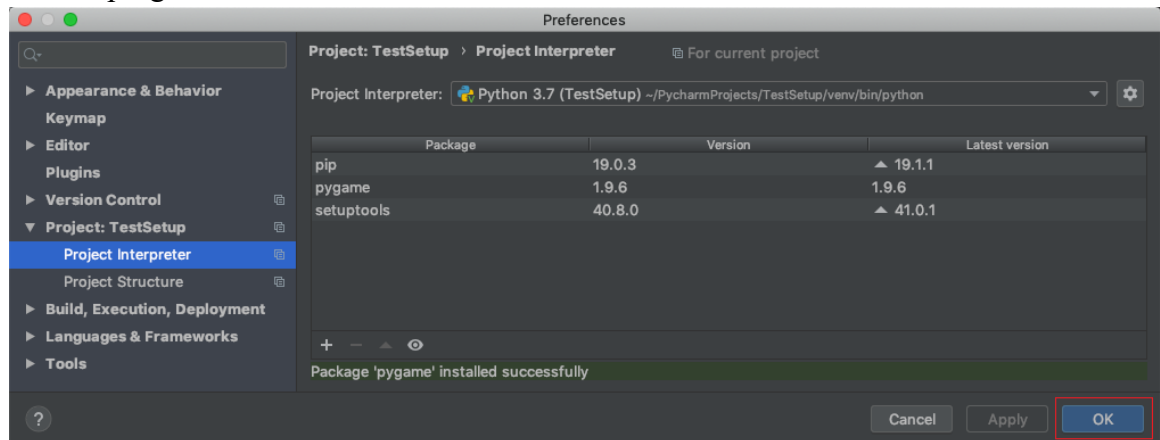
Search for pygame and click “Install Package” on the package with the exact name.



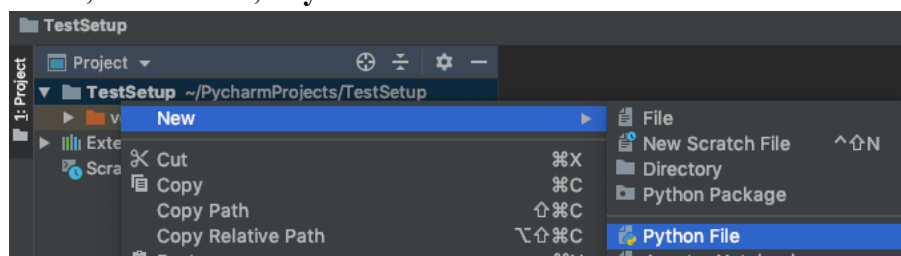
It will say “Package ‘pygame’ installed successfully”, then we can close the window.



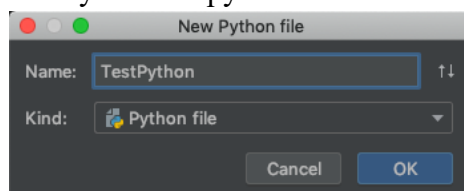
Back to Preference screen, now click “OK”. Wait for the process to finish on the bottom progress bar.



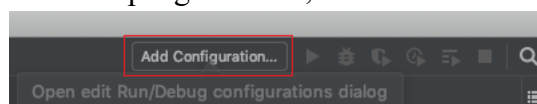
5. Create a new Python file in the project by **right-clicking** the root(upper-most) folder, then “New”, “Python File”.



Give your new python file a name:



6. On the top-right corner, click on “Add Configuration” button.

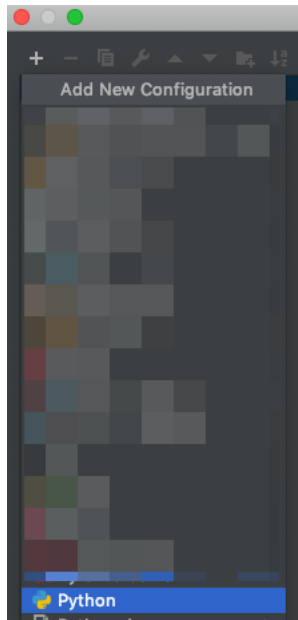


Click “+” to add a new configuration on the top-left corner of the new screen.



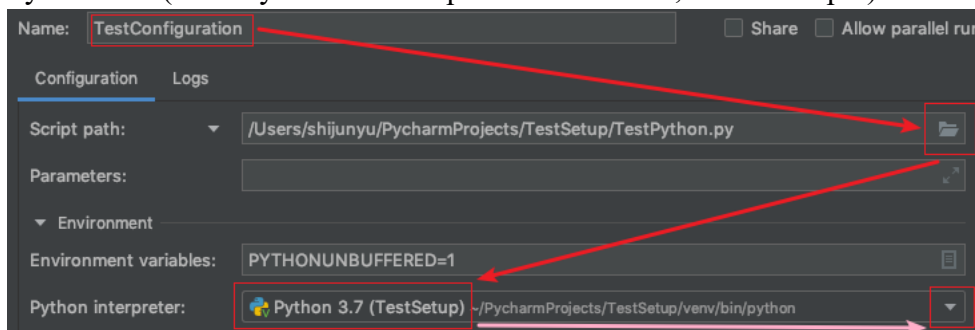
Select “Python” in the window under the “+” button after clicking on it.





Give your configuration a name, such as “TestConfiguration”; then click on the Folder Icon on the right end of Script path, select the python file that we just created.

Next verify the python interpreter is “Python 3.7”: if not, open the drop-down menu by clicking the triangle on the right (follow the pink arrow), and select Python 3.7. (If no Python 3.7 interpreter is available, refer to step 4)

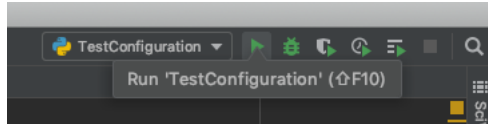


- Now all the setup part is done, let's test out Python and Pygame works with a short script!

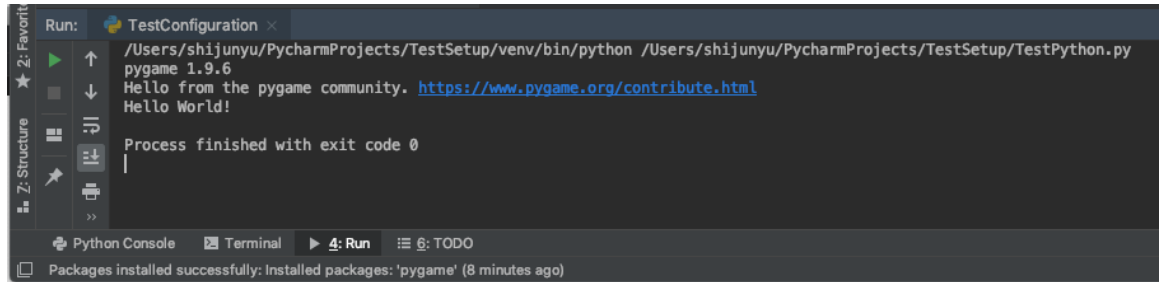
Put the following code (you can copy and paste) into the python file we created earlier (TestPython.py in my example).

```
import pygame
print('Hello World!')
```

Go to the top-right corner, we can run our Configuration by clicking the green Triangle next to the Configuration name.



Check the bottom left-corner, if your program runs and print message from Pygame and “Hello World”, then you are all set!



Now sit back and relax while waiting for other people to finish. Feel free to play around with more python commands as well!