# Python and Pygame - Installing on Windows

Here are Windows instructions to install python and pygame, including some Windows specific "gotchas".

# A. Install Python

## A1. Download and install python

**Don't** download python using the Windows Store - download it from https://www.python.org/downloads/
Make sure you remember which folder it is installed in
E.g. mine is in:

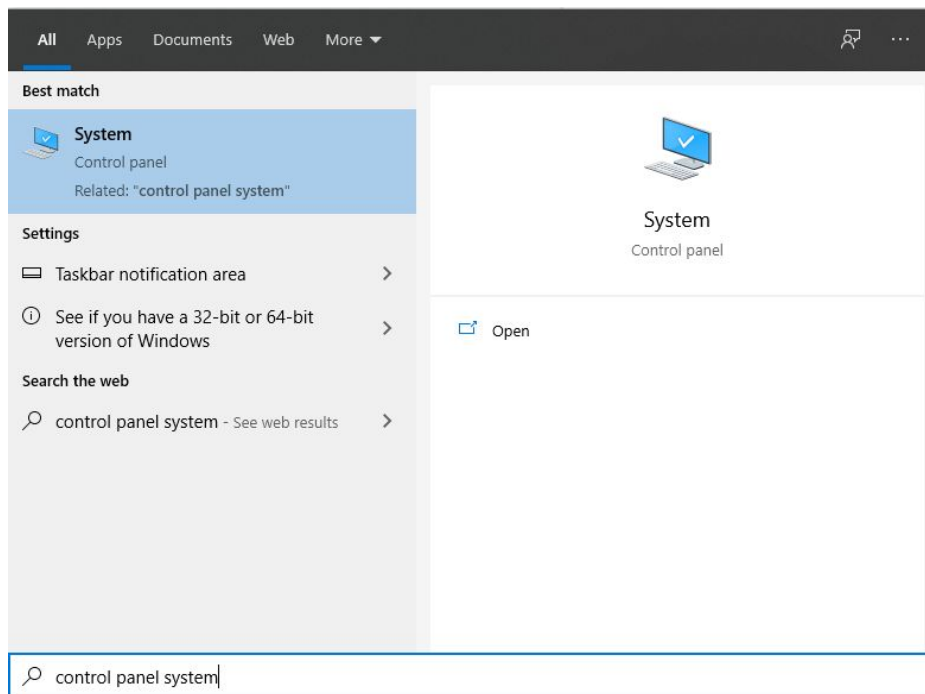> C:\Users\Rhi\AppData\Local\Programs\Python\Python36-32

(my windows username is Rhi as this is my wife's old computer!)

## A2. Adding python to PATH

Ideally we need python in our PATH, which is a list of folders that Windows searches through when you type a command in the command prompt.
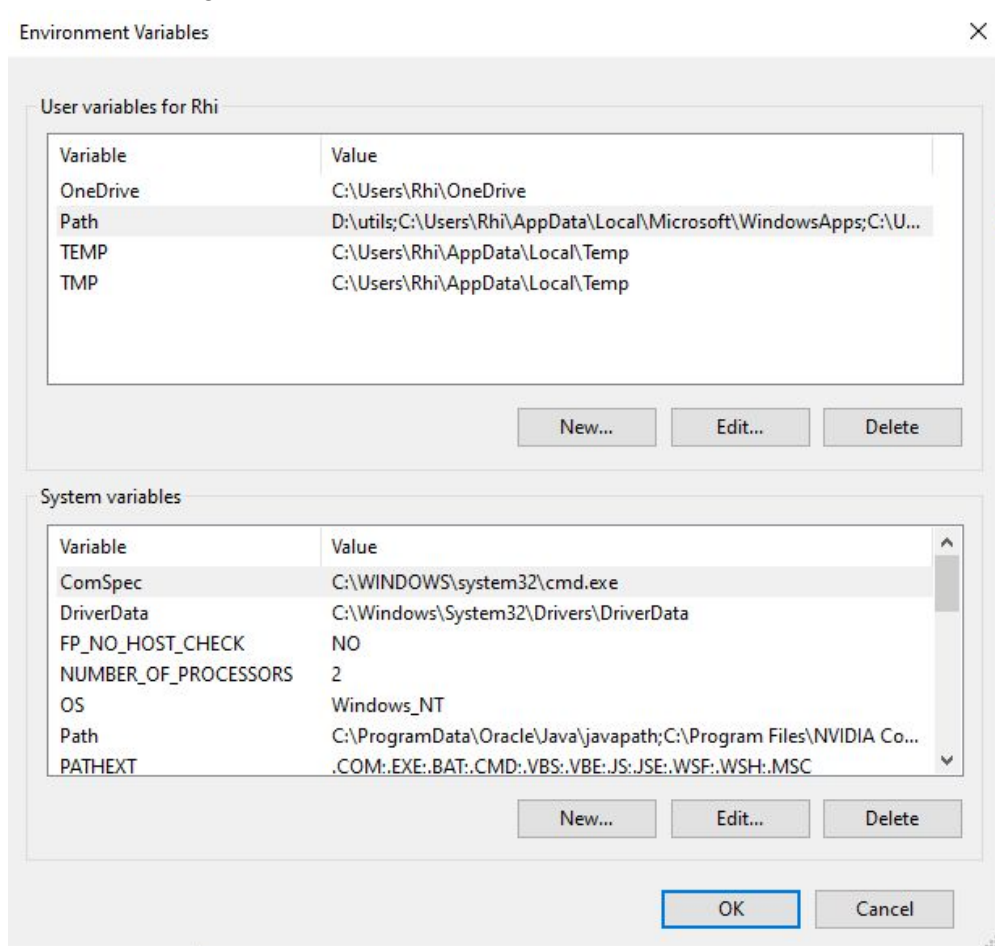To add python to the path, please follow these steps:

1. Hit Start menu button
2. Type "control panel system" (without the quotes) and **don't** press enter yet
3. You should see this:



4. Choose the **System** option highlighted with a blue background

(please turn over)

5. Click "Advanced System Settings"
6. Click "Advanced" tab
7. Click "Environment Variables"
8. You should see something like this:



9. In the top list called "User variables for <someone>",double click on the "Path" entry
   If you don't have a Path entry in the top list, use the bottom list
10. Add two new entries at the top of the list, like this:

> C:\Users\Rhi\AppData\Local\Programs\Python\Python36-32
> C:\Users\Rhi\AppData\Local\Programs\Python\Python36-32\Scripts

**Note:** You need to use your python install folder, NOT the one above - that is mine!
**Note:** The first entry is the folder that your python is in, and the second entry is the same but
   has "\Scripts" on the end

11. Click OK on all the dialog boxes to confirm all the settings

## A3. To check this has worked:

1. Hit Start menu button
2. Type "Command Prompt" then click Run as Administrator
3. Type "python --version" and hit enter
4. You should see the python version - if you see an error then please get help from Connor/John
5. Type "pip --version" and hit enter
6. You should see the pip version - if you see an error then please get help from Connor/John

(please turn over to look at installing pygame)

# B. Installing pygame

Assuming python and pip is in your PATH, if you've followed the above instructions, we can easily do this with these steps:

1. Hit Start menu button
2. Type "Command Prompt" then click Run as Administrator
3. Do "pip --version" and hit enter
   You should see pip version
4. Do "pip install pygame" and hit enter
5. Pygame should download and install, and can then be used in Visual Studio Code or IDLE

# C. (Optional) Remove the python aliases from Windows

https://stackoverflow.com/questions/58754860/cmd-opens-window-store-when-i-type-python