

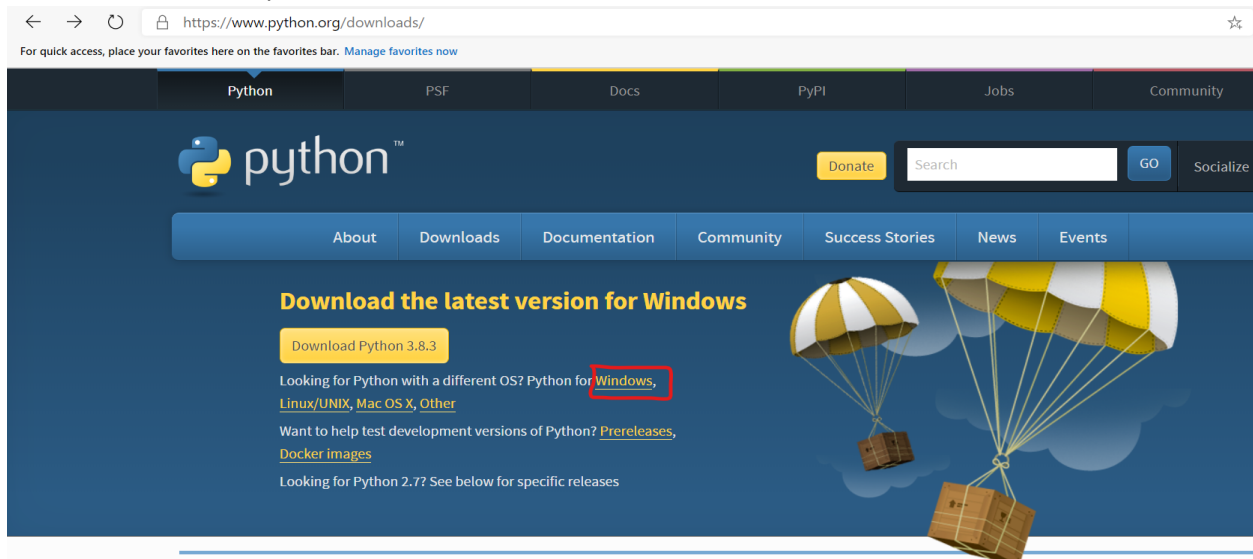
Installing Python, Pip, Django, and PyCharm

Prepared by: Dr. Saja Al Mamoori

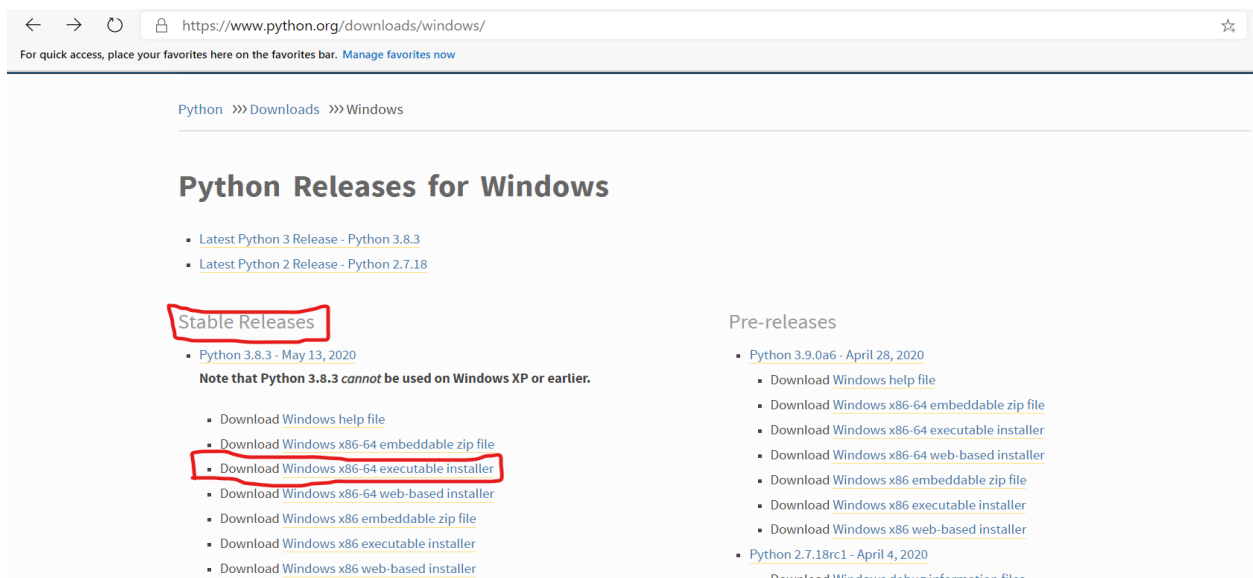
Step1: Install Python

To work with Django, we need to install Python. Django is Python's web framework; it relies on python code and interpreter.

Go to <https://python.org/downloads> and click on downloads to download the latest version of Python 3. Select the Windows option, as shown in the below screenshot.



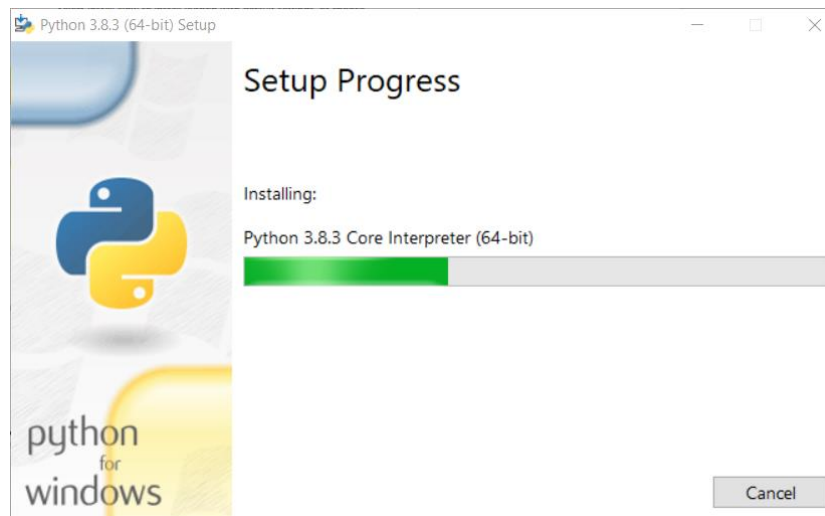
Then, on the next page, select an appropriate version based on your OS version, i.e., 32-bit or 64-bit, and download the executable installer.



After downloading the Python installer, you need to install it on your computer. After starting the installer, choose [Install Now](#) in the screen shown below



Important Note: To make sure Python is working correctly, you must set up the environment variables, in version 3.6 and above it is easier as all you need to do is to **check the box [Add Python 3.8 to PATH](#)** in the above screen. Then go through the installation process.



Open the command prompt window, type the command [python](#). This will bring you to python interpreter. If you want to exit Python, type [exit\(\)](#).

Type **python --version** at cmd prompt to check the version of Python that is installed.

You can use Python either using [python command](#) or [python shell](#) (IDLE or Python GUI) as seen below:

```
Command Prompt - python
Microsoft Windows [Version 10.0.18363.778]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\harshil>python
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:37:02) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

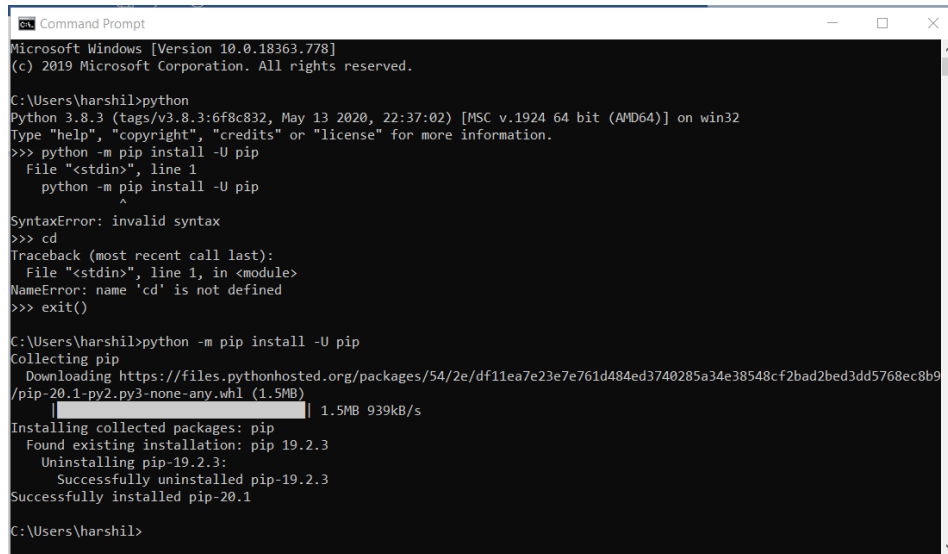
```
Python 3.8.3 Shell
File Edit Shell Debug Options Window Help
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:37:02) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
```

Ln: 3 Col: 4

Step2: Install/Upgrade Pip

If you have Python 3.4 or later versions, pip should already be installed. To upgrade to the latest version, type this command in your cmd window:

python -m pip install -U pip



```
Command Prompt
Microsoft Windows [Version 10.0.18363.778]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\harshil>python
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:37:02) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> python -m pip install -U pip
File "<stdin>", line 1
    python -m pip install -U pip
    ^
SyntaxError: invalid syntax
>>> cd
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'cd' is not defined
>>> exit()

C:\Users\harshil>python -m pip install -U pip
Collecting pip
  Downloading https://files.pythonhosted.org/packages/54/2e/df11ea7e23e7e761d484ed3740285a34e38548cf2bad2bed3dd5768ec8b9/pip-20.1-py2.py3-none-any.whl (1.5MB)
    | 1.5MB 939kB/s
Installing collected packages: pip
  Found existing installation: pip 19.2.3
    Uninstalling pip-19.2.3:
      Successfully uninstalled pip-19.2.3
Successfully installed pip-20.1

C:\Users\harshil>
```

Step3: Install Django

a) Uninstall any previous version of Django (if needed). To do this, simply remove appropriate dir. This step is not required if Django was installed using pip.

b) Type **pip install Django** at cmd prompt OR

c) Type **pip install -U Django** to upgrade to a newer version (if you already had an older version installed)

```
Command Prompt
NameError: name 'cd' is not defined
>>> exit()

C:\Users\harshil>python -m pip install -U pip
Collecting pip
  Downloading https://files.pythonhosted.org/packages/54/2e/df11ea7e23e7e761d484ed3740285a34e38548cf2bad2bed3dd5768ec8b9/pip-20.1-py2.py3-none-any.whl (1.5MB)
    | 1.5MB 939kB/s
Installing collected packages: pip
  Found existing installation: pip 19.2.3
    Uninstalling pip-19.2.3:
      Successfully uninstalled pip-19.2.3
Successfully installed pip-20.1

C:\Users\harshil>pip install Django
Collecting Django
  Downloading Django-3.0.6-py3-none-any.whl (7.5 MB)
    | 7.5 MB 930 kB/s
Collecting asgiref~=3.2
  Downloading asgiref-3.2.7-py2.py3-none-any.whl (19 kB)
Collecting sqlparse>=0.2.2
  Downloading sqlparse-0.3.1-py2.py3-none-any.whl (40 kB)
    | 40 kB 91 kB/s
Collecting pytz
  Downloading pytz-2020.1-py2.py3-none-any.whl (510 kB)
    | 510 kB 6.4 MB/s
Installing collected packages: asgiref, sqlparse, pytz, Django
Successfully installed Django-3.0.6 asgiref-3.2.7 pytz-2020.1 sqlparse-0.3.1

C:\Users\harshil>
```

NOTE: If you get an error message such “as Fatal error in launcher: Unable to create process using ...”
Try: **Python -m pip install Django**

d) Check that Django is installed correctly and check the version at the command prompt. Your cmd window should show something like this (current version is **3.0.6**):

```
Command Prompt - python
Microsoft Windows [Version 10.0.18363.778]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\harshil>python
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:37:02) [MSC v.1924 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import django
>>> django.VERSION
(3, 0, 6, 'final', 0)
>>>
```

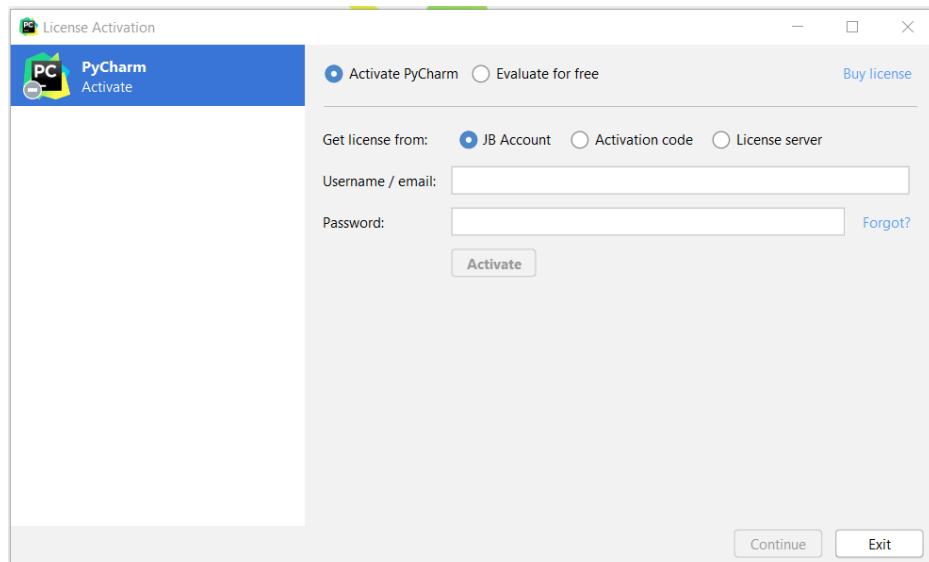
Step4: Install PyCharm

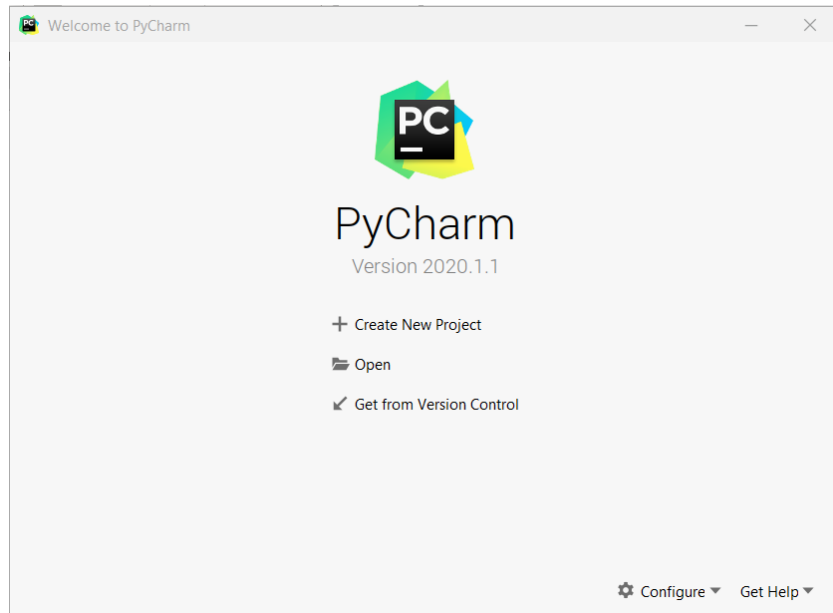
- a) Go to <https://account.jetbrains.com/login> and register for a JetBrains account. Make sure you use your **uwindsor** email to register for the account.
- b) You should receive an email asking you to **Confirm Request**. Click the link and follow any instructions.
- c) Go to: <https://www.jetbrains.com/student/> and click "APPLY NOW".
- d) You will be redirected to the [application form](#). On this form, select "I'm a student", enter your first and last name and your **uwindsor email**, then click on "APPLY FOR FREE PRODUCTS"
- e) You should receive an email asking you to **Confirm Request**. Click the link and follow any instructions.
- f) Go to <https://www.jetbrains.com/pycharm/> to download PyCharm. Remember, you need the **Professional** version, not the Community version.



After downloading PyCharm click on the downloaded .exe file and follow the installation steps:

Launch PyCharm and follow the steps. Activate your account by selecting the **JetBrains Account** option and entering your email and password (created in step 4a)





Select **Create New Project** and create a new **pure python** project called *lab1*.

