

# DDA3020 Python Setup Instruction

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## Installation Guide for Python Programming Environment

*For DDA3020*

### Before You Start

This guide is about installing and using the Python based *Anaconda* platform and the lightweight open source tool *Jupyter Notebook*.

Other sources such as the official Python *IDLE*, *VS Code*, *Pycharm*, etc. are also compatible with this course, but please make sure you are using a Python (<https://www.python.org>) kernel distribution of 3.7 or higher.

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### For Windows User

This process will take 20~30mins

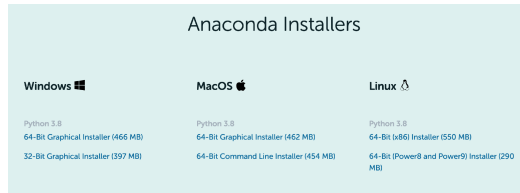
#### Step 1: Download Anaconda

Go to the Anaconda official website:



www.anaconda.com

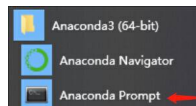
Download the latest version suitable for your system.



## Step 2: Anaconda Setup

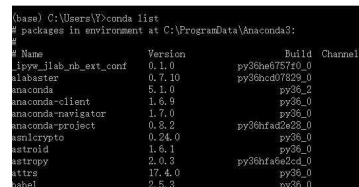
After download, Right click——Run as admin(“以管理员身份运行”), Keep hitting “Next” until ‘Done’.

Eventually, see this in Start menu.

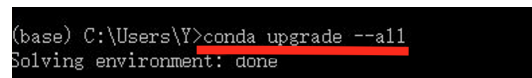


### Step 3: Update required packages

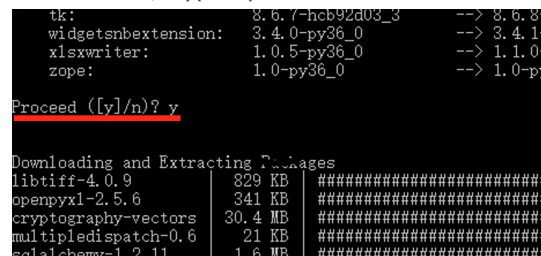
Open Anaconda Prompt, Type in `conda list` then press enter to check out packages already installed.



Type in `conda upgrade --all`, then Enter to update them all.

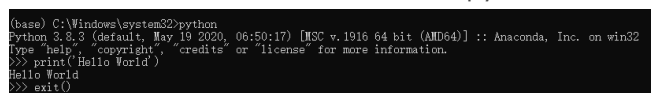


When you are asked if Proceed, Type 'y' as YES.



### Validating Setup:

1. Type in python, should look like this: `>>>`
2. Type in `print('Hello World')` to get the output.
3. Then `exit()` to exit the interactive python.



## Step 4: Jupyter Notebook Setup

Type in: conda install jupyter notebook in Prompt and wait until done.

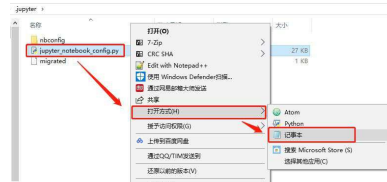
```
(base) C:\Users\Y>conda install jupyter notebook  
Solving environment: done
```

## Step 5: Change the work directory (optional)

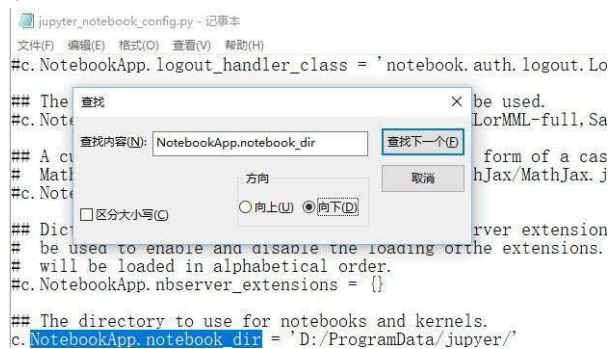
1. In Prompt, type in: jupyter notebook --generate-config, then Enter, demonstrates the configuration file path.

```
(base) C:\Users\Y>jupyter notebook --generate-config  
Writing default config to: C:\Users\Y\.jupyter\jupyter_notebook_config.py
```

2. Then please go to THE folder above and edit with Notepad.

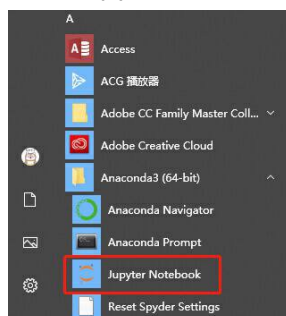


3. Use Find function (Ctrl+F) to locate NotebookApp.notebook\_dir, then change it to wherever you want.

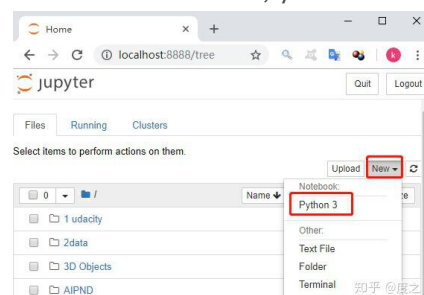


## Step 6: Start up Jupyter Notebook

Find Jupyter Notebook in your Start Menu and click to begin.



Wait a few seconds, your default browser will pop up.



Now, you may change create edit or delete your files in on the Web page。

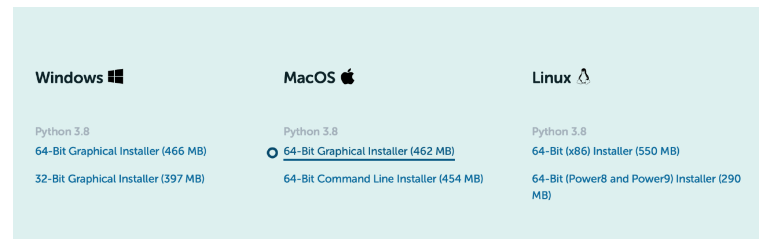
Click “New–Python 3” to start interactive programming with Jupyter Notebook!

## For Mac/Linux User:

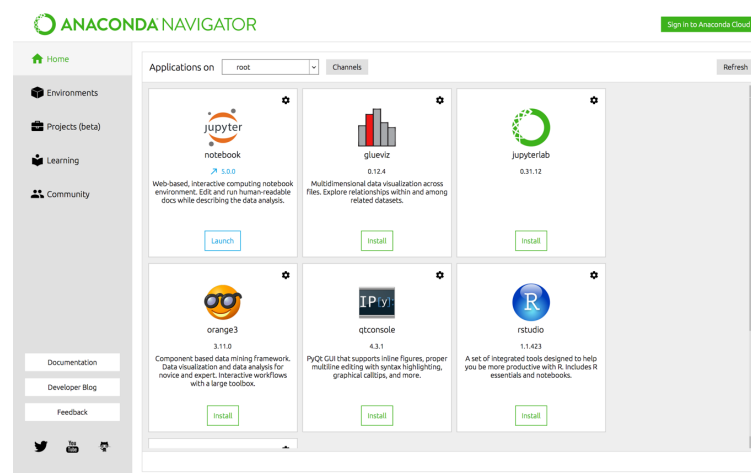
This process is similar and slightly simpler, you can also reference Windows part.

## Install Anaconda& Jupyter

Download Anaconda and make sure to choose the right version. And Install graphically (command–line style recommended for experienced users).



## Anaconda Graphic Interface



When you finish the installation try type in below line in your terminal:

jupyter notebook

Install new packages:

conda install + ‘Package Name’

## Terminal and path to Jupyter Notebook

Mac: Open **spotlight** then type in: *terminal*.

Usually, default notebook path:

/Users/xxxxxx(User name)/

Or, You can also use the abbrev:

~/

*If you have questions, please contact course TAs via email.*