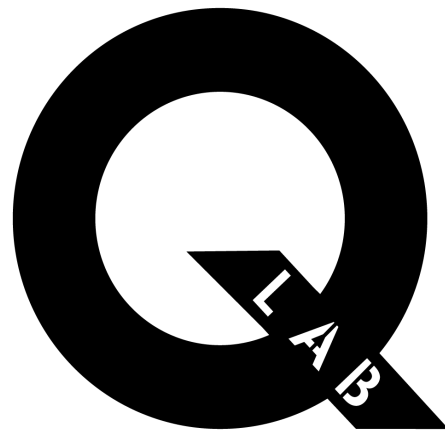


## QLab VLE QuickStart

Welcome to the QuickStart guide for the QLab VLE.

This will take you through the install of **anaconda**, a high quality python virtual environment manager.

Then we'll get started on launching a **tutorial** notebook.



### Installing Anaconda

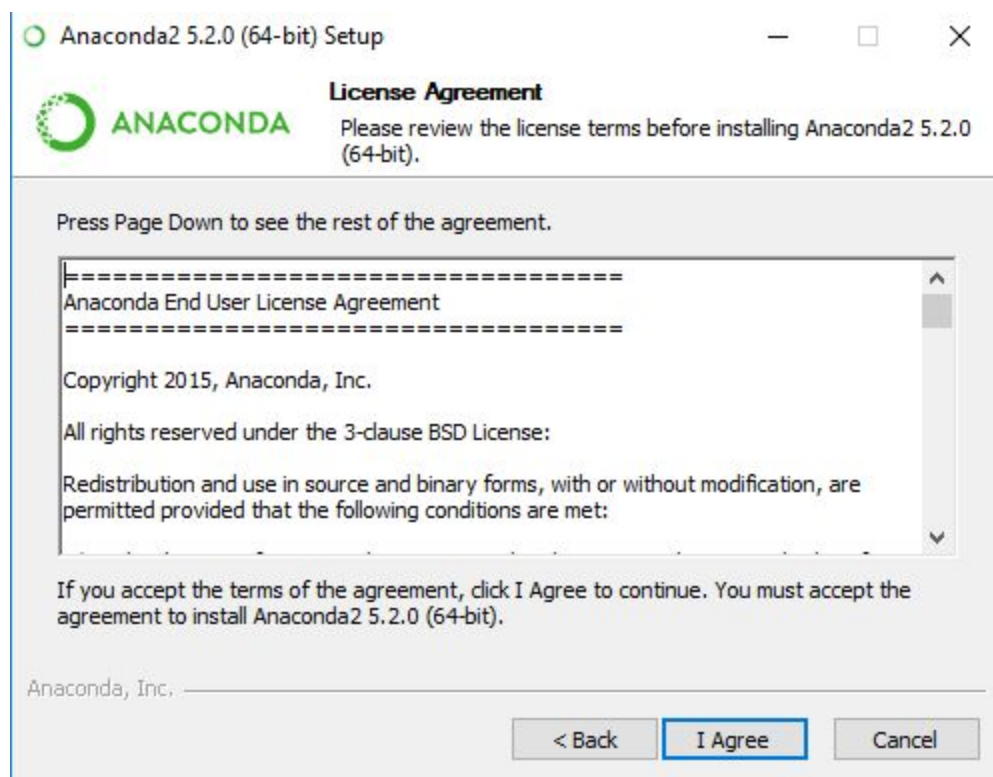
Unlike most learning courses this experience will leave you **lasting resources** in the form of the notebooks you create and the Anaconda virtual environment manager.

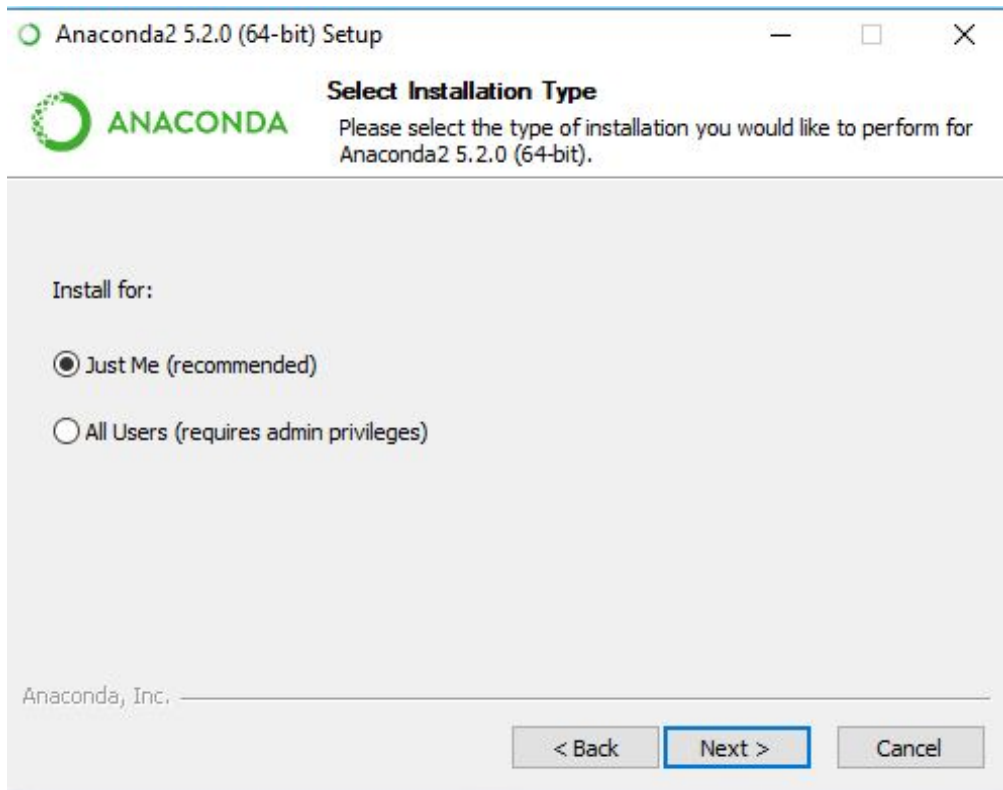
Anaconda will be extremely useful for you to use even after you've completed our courses as it will continue to support you with any python libraries you may need.

#### **Let's get started;**

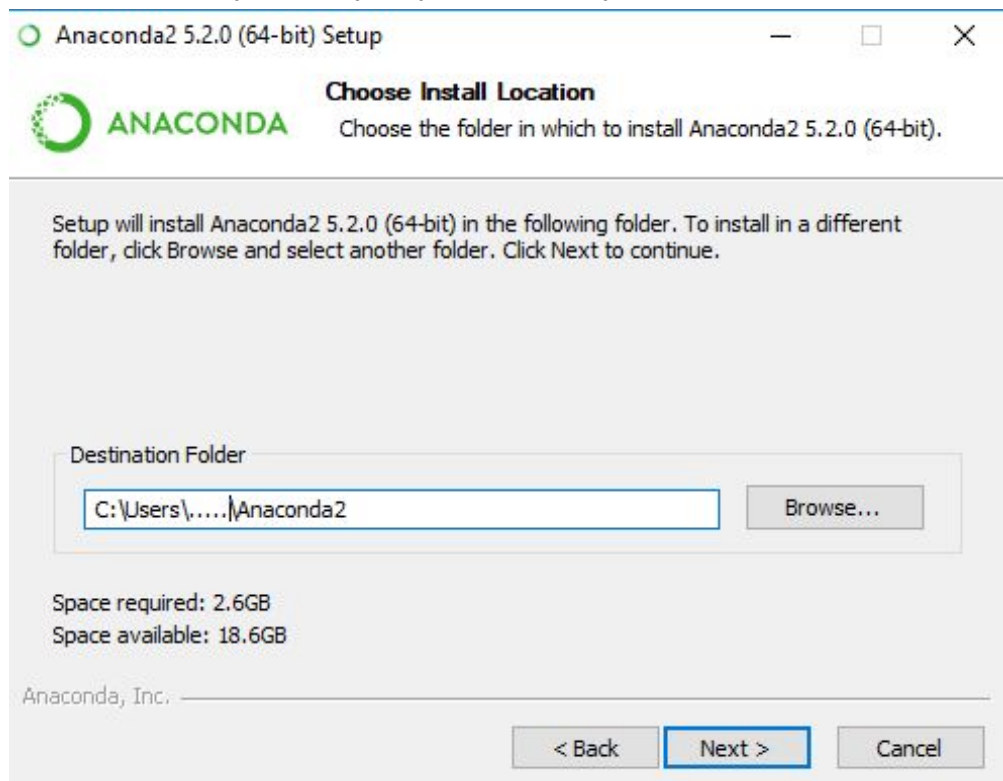
1. Download Anaconda from the following link:  
<https://www.anaconda.com/download>. Select the **Python 3.6** version. Run this installer and follow default steps.

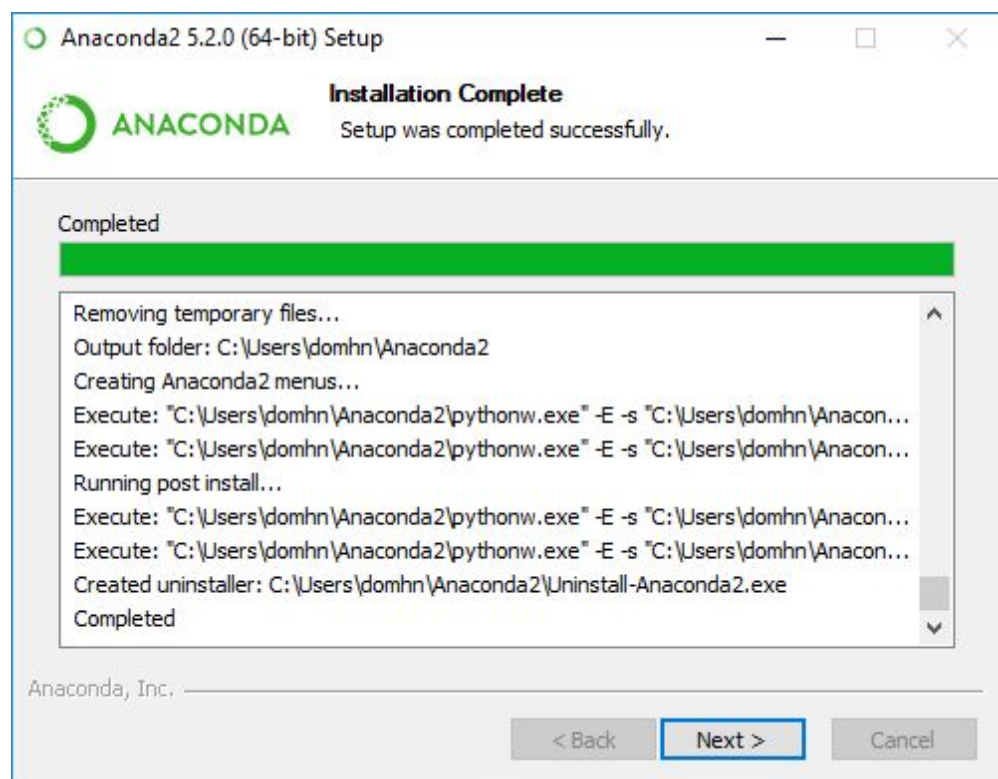
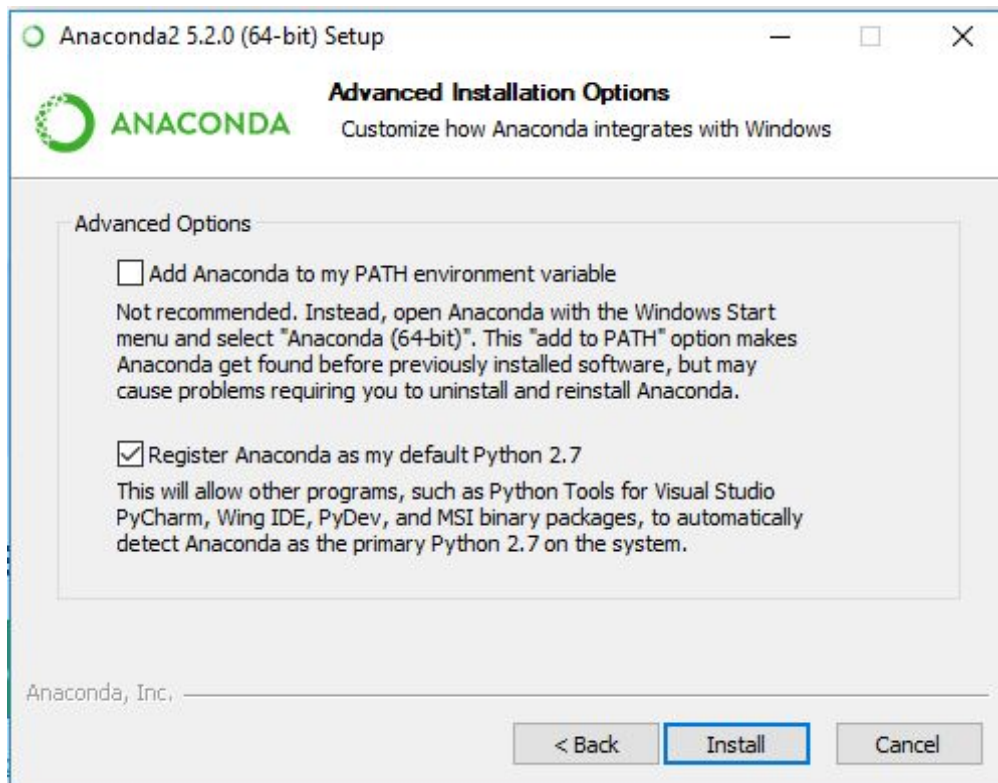
The following installation was completed on a Windows 64-bit machine:



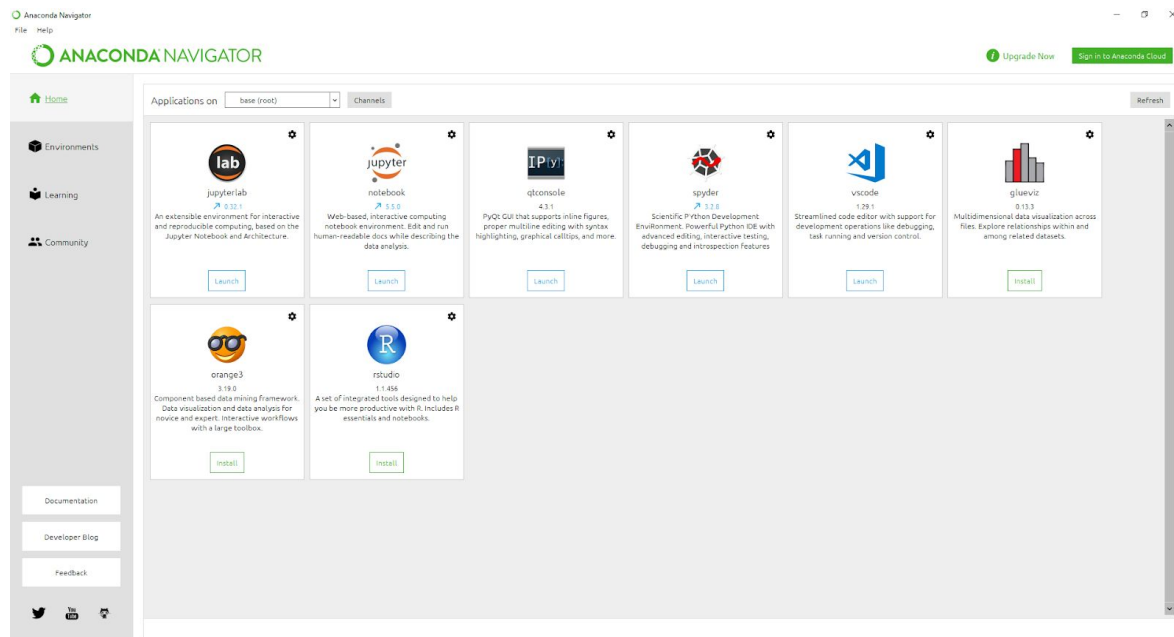


Choose any directory on your machine you wish (default is fine).

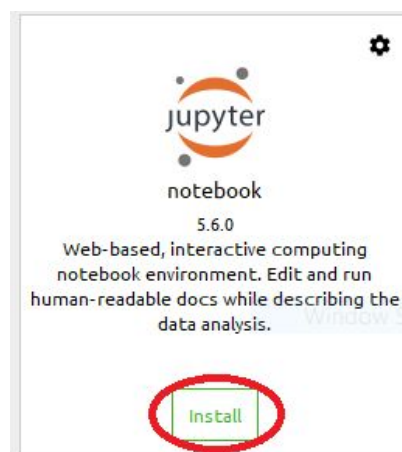




2. Launch **Anaconda Navigator** from your programs once installation is complete
3. Wait up to a minute or so and you should see a screen like below.



4. Next Install Jupyter notebook by pressing the green install button



5. Now launch **Jupyter Notebook** which should open in your browser like below



Select items to perform actions on them.

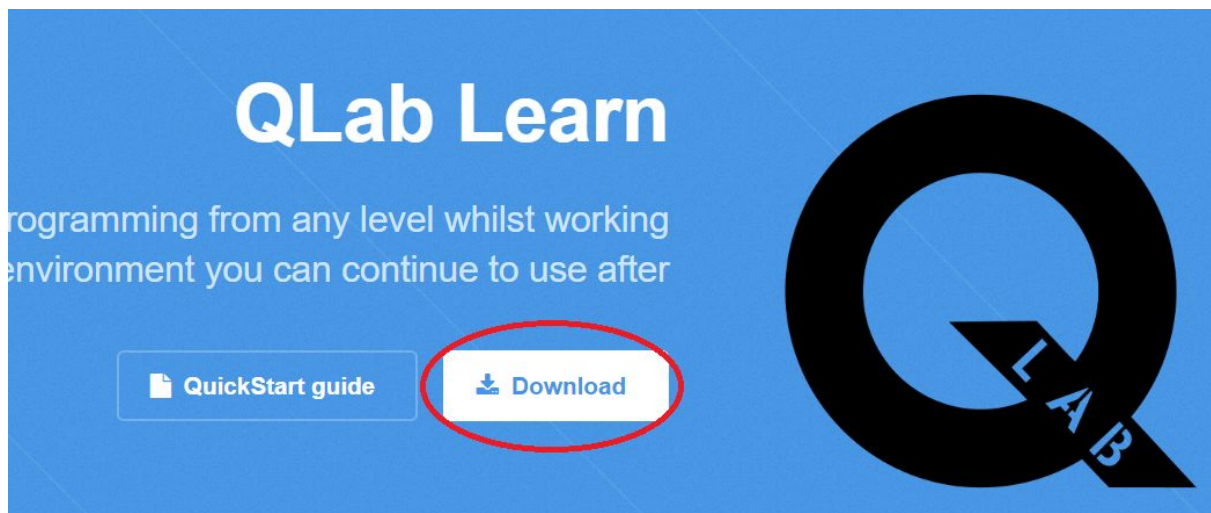
Upload New ↕

<input type="checkbox"/> 0 ▾	/	Name ▾	Last Modified	File size
<input type="checkbox"/>	3D Objects		3 months ago	
<input type="checkbox"/>	Android Projects		5 months ago	
<input type="checkbox"/>	Contacts		3 months ago	
<input type="checkbox"/>	DarkNet		6 months ago	
<input type="checkbox"/>	Desktop		a day ago	
<input type="checkbox"/>	Documents		an hour ago	
<input type="checkbox"/>	Downloads		38 minutes ago	
<input type="checkbox"/>	eclipse-workspace		a month ago	
<input type="checkbox"/>	Fast.ai(OLD)		6 months ago	
<input type="checkbox"/>	fastai		5 months ago	
<input type="checkbox"/>	Favorites		3 months ago	

## Launching a tutorial notebook

The guides you will be following come in the form of notebooks which run in jupyter through anaconda. These are widely used, although ours have been tailored to a custom learning experience.

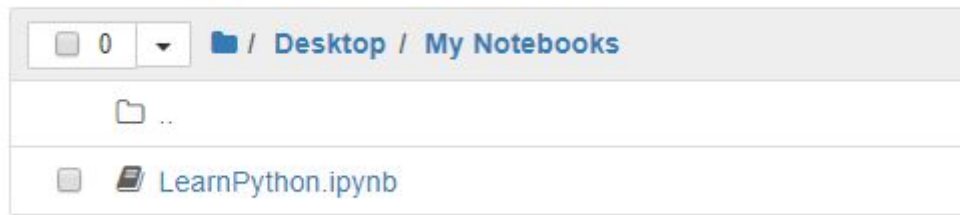
1. Go to our website (<https://makerspacequb.github.io/vle>) and download the starting Python notebook



2. Move this to a directory of your choice (creating a folder solely for your notebooks is advised)
3. Next in your Jupyter tab in your browser navigate to the notebook you've just downloaded



Select items to perform actions on them.




4. Click this to launch and your now ready to begin

## How to use a notebook

Navigation bar key icons;



1. Before starting, restart and run all by pressing the  icon and then refresh the tab (F5)
2. Follow the tutorial and enter your code answer in the empty cells under each task

### Task 1


Printing is an essential tool of any programming language because it allows us to see what's inside of our program whilst it's running. Without it finding out what the program has produced is impossible!

To do this we write a **command** (a line that tells the program to do an action) containing a keyword python understands. To output a word we use '**print()**' which is a python function (more about functions later) that will print out whatever is inside its brackets.

For example writing **print("abc")** would print out abc. Also note that these quotes are very important to tell python that abc is a word and not code!

Now try for yourself: Use the **print()** function to output 'Hello World'

In [ ]:

3. Click  in the navigation bar to test your current cell and get feedback or continue to next question if correct

**Your'e now ready to begin!**