



Anaconda Installation Guide

# **Machine Learning in Python and Jupyter for Beginners**

Dave Valentine

## Starting the Installation

# Welcome!

The following is a walkthrough of installation for Anaconda, for use in the "Machine Learning in Python and Jupyter for Beginners" course.

The platform shown is Windows 10, but the process is similar to all platforms.

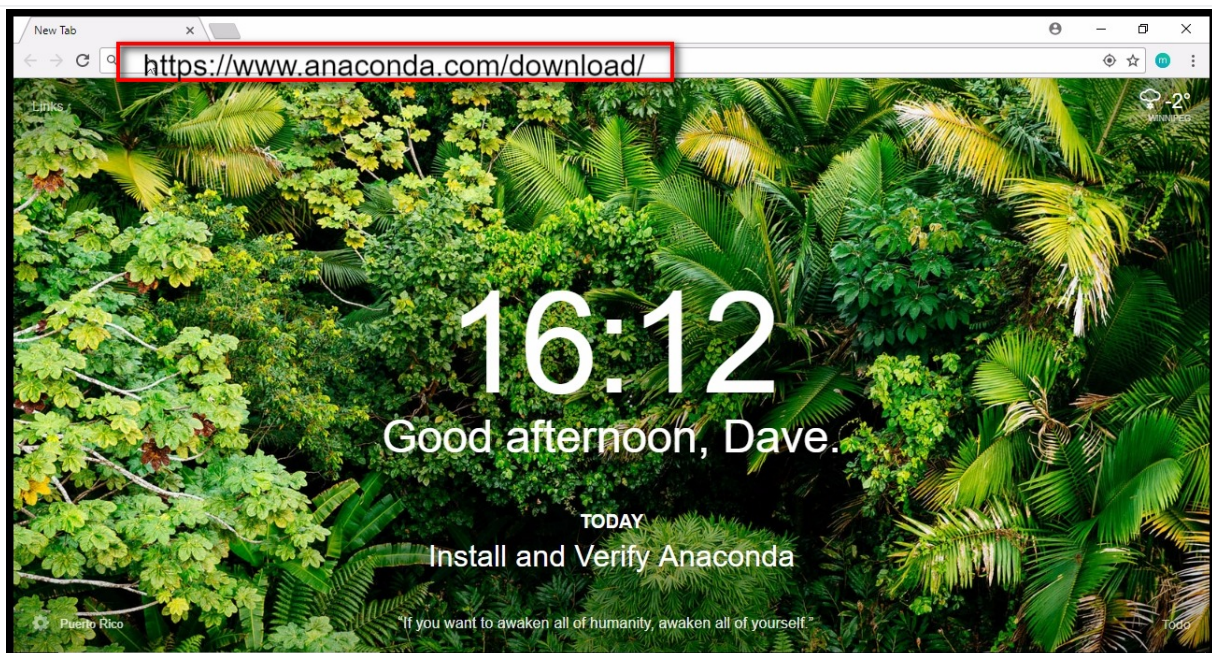
Students are encouraged to download Anaconda, in advance of the class. If you want to install it - please follow these instructions closely to make sure you can run the demonstrations provided later in the course. We will cover installation during the course.



I look forward to sharing this exciting field with you!

Dave Valentine

[www.tbdatascientist.com](http://www.tbdatascientist.com)

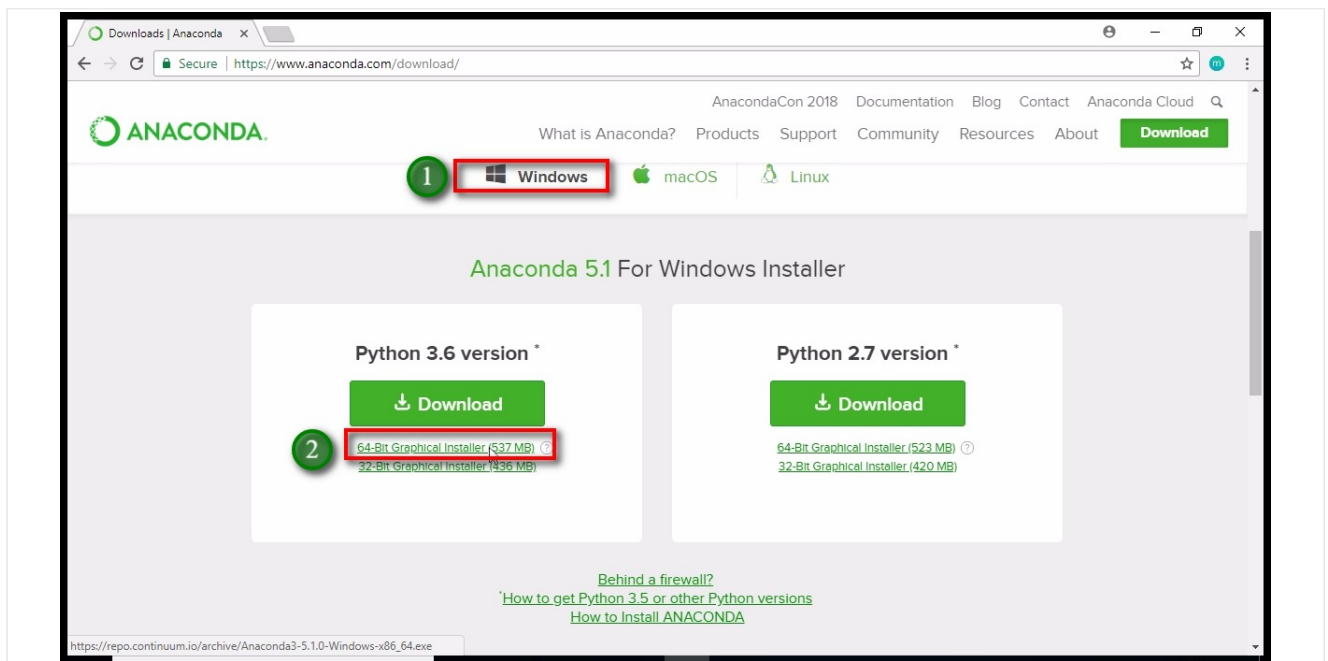


### Start your web browser of choice.

Start up your web browser of choice. I've started up chrome.

Visit: <https://www.anaconda.com/download/>

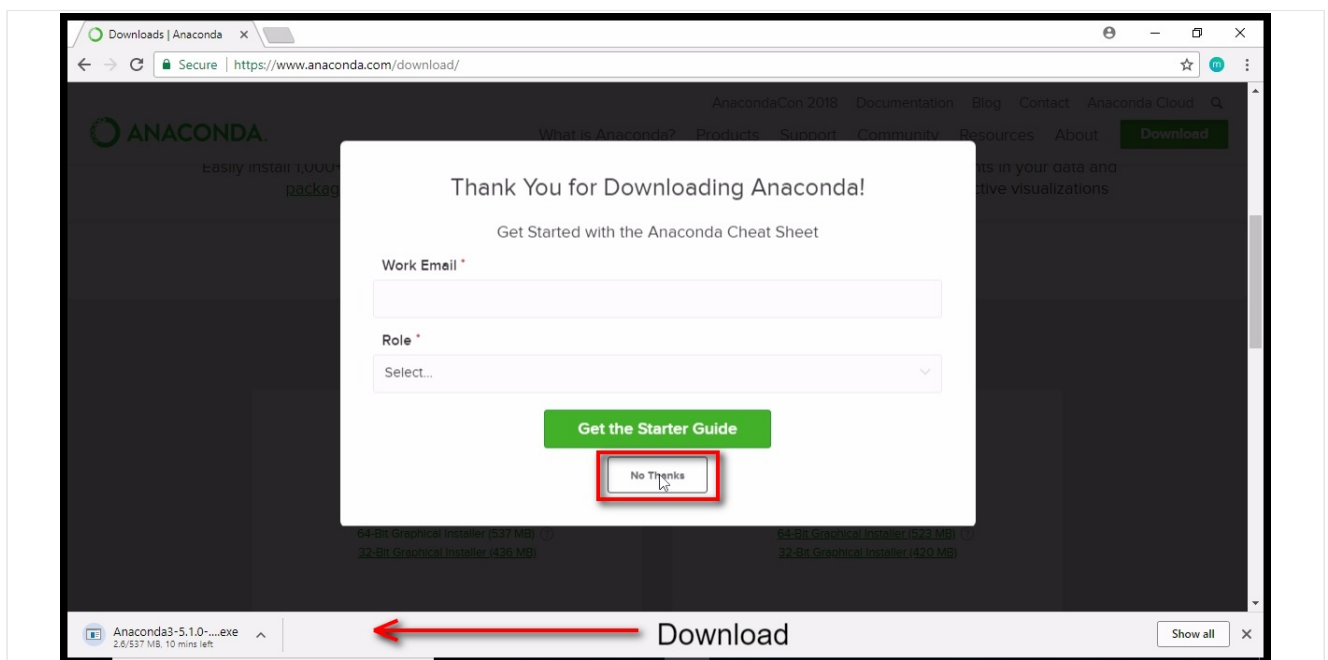




## Select your platform and distribution.

I've selected Windows as my platform, (1) and selected 64 bit (2) as my workstation is 64 bit.

Select what is appropriate for your workstation. However, be sure to install the Python 3.6 version.

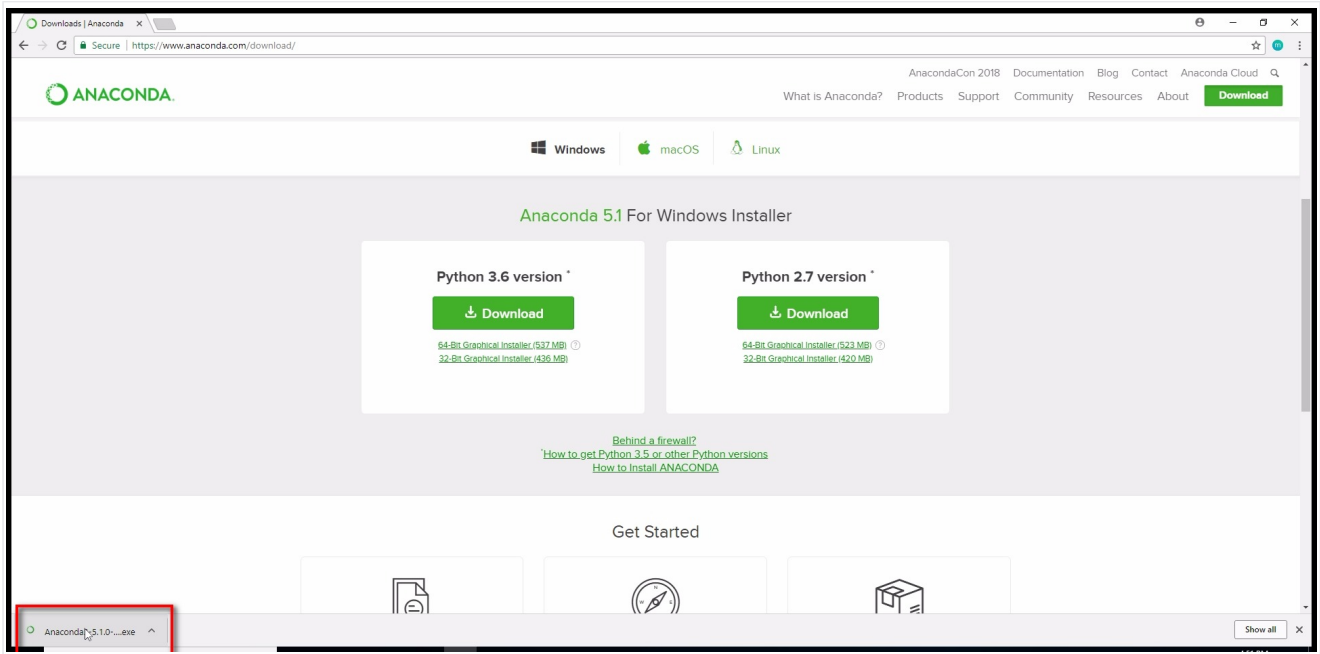


## Optional cheat sheet

You'll be presented with the option to get a free cheat sheet. You can sign up for this if you want. (I chose not to bother).

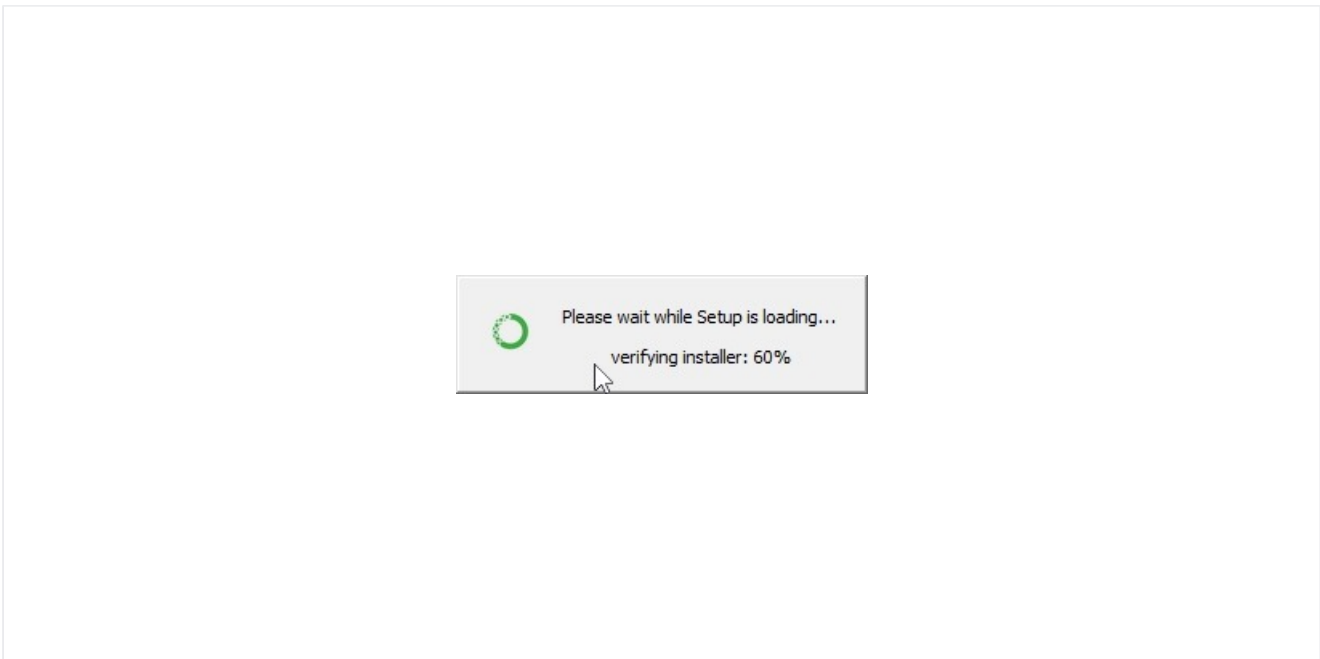
The download should begin.





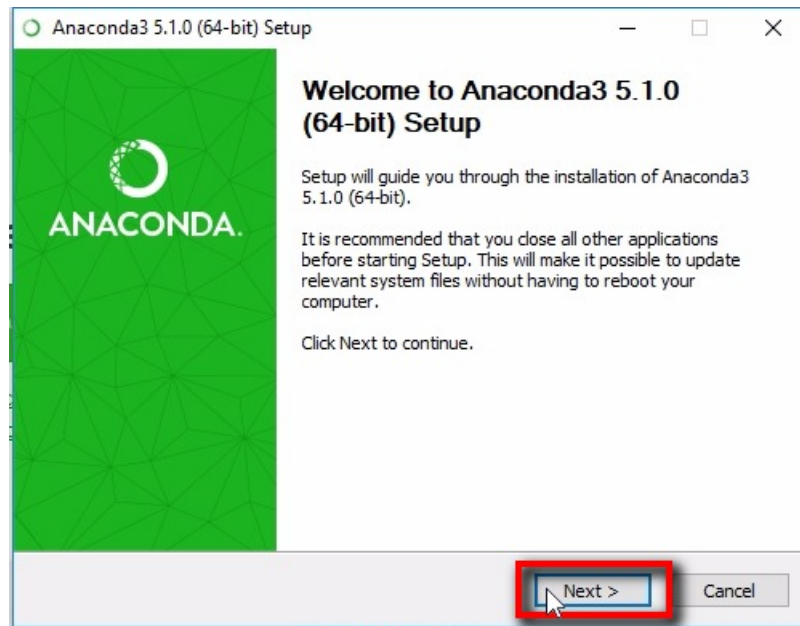
## Once downloaded

Click on " Anaconda3-5.1.0-Windows-x86\_64.exe" to start the installer.



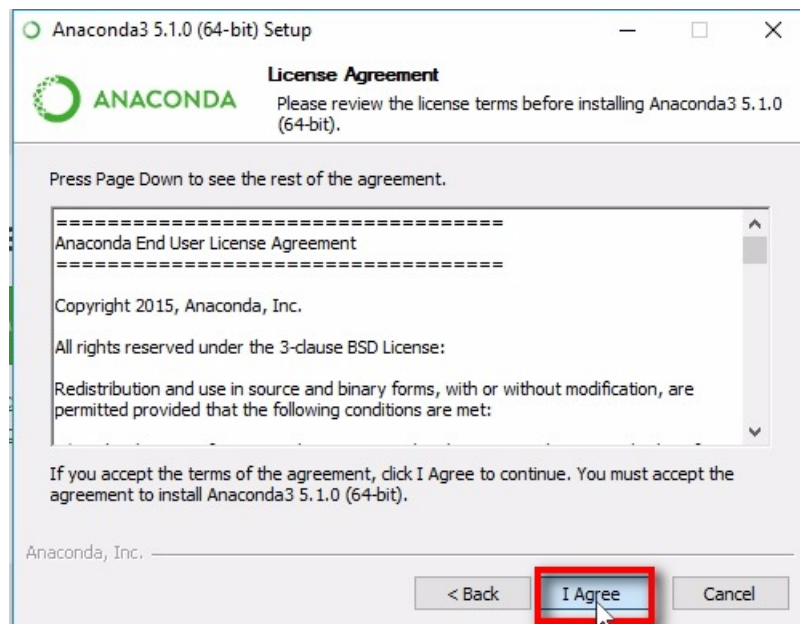
## Setup will load





### Click next to begin the installation

Click next on "Anaconda3 5.1.0 (64-bit) Setup" dialog.

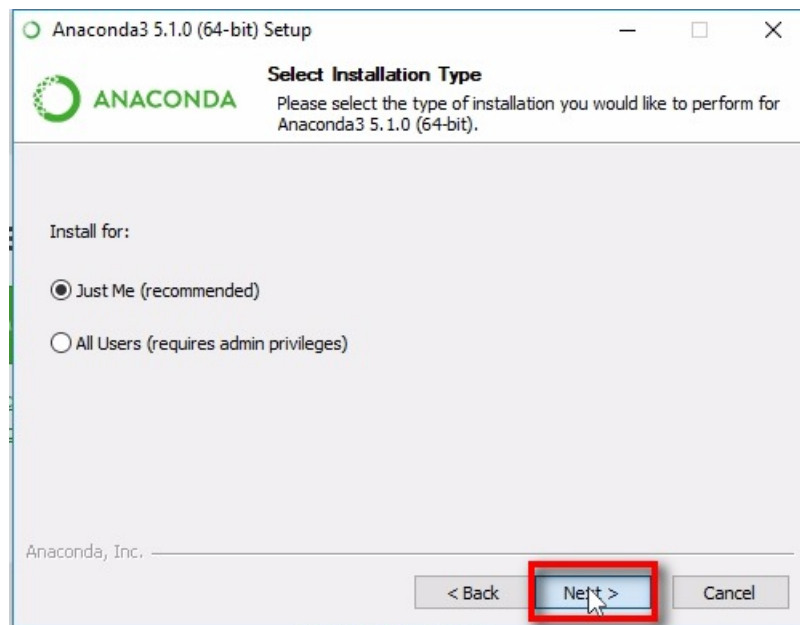


### License Agreement

Click on "I Agree" button if you accept the terms of the License Agreement.

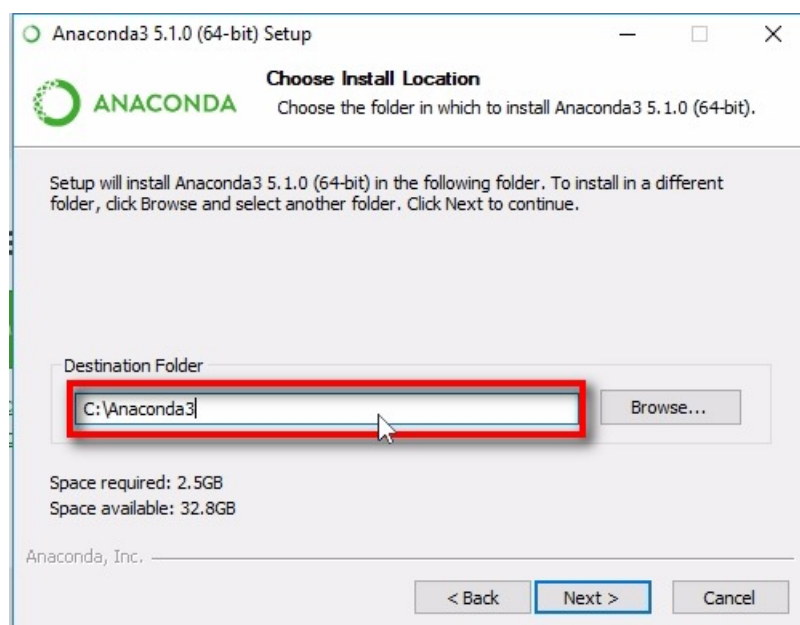






## Selecting the Installation Type

For the purposes of the course, "Just me" is perfect. Select "Just me" and continue the installation process.

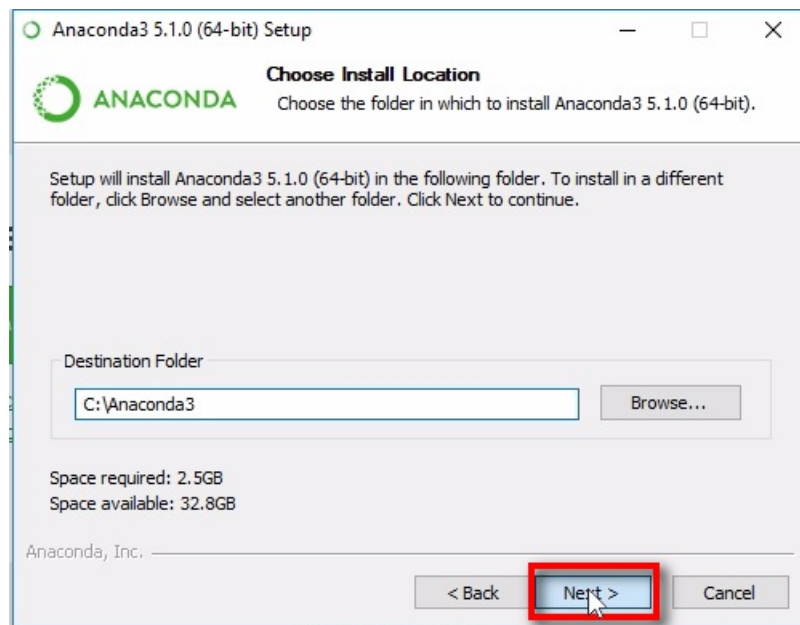


## Edit the destination folder

Edit the destination folder to be C:\Anaconda3

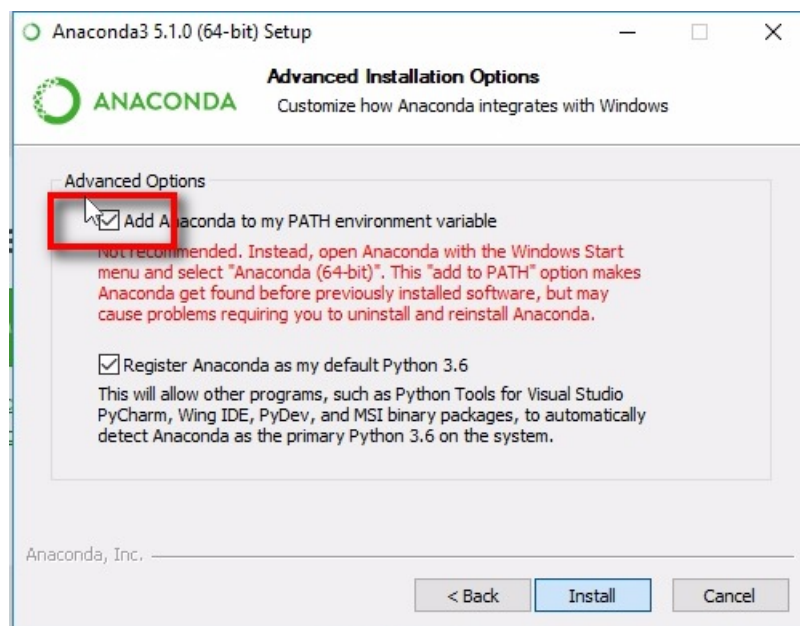
TIP: Anaconda normally installs in the user directory, but it can become confused if the username has special characters or spaces. It's much better for the purpose of our course to standardize to C:\Anaconda3





### Click on "Next >" button

Continue the install by clicking next.

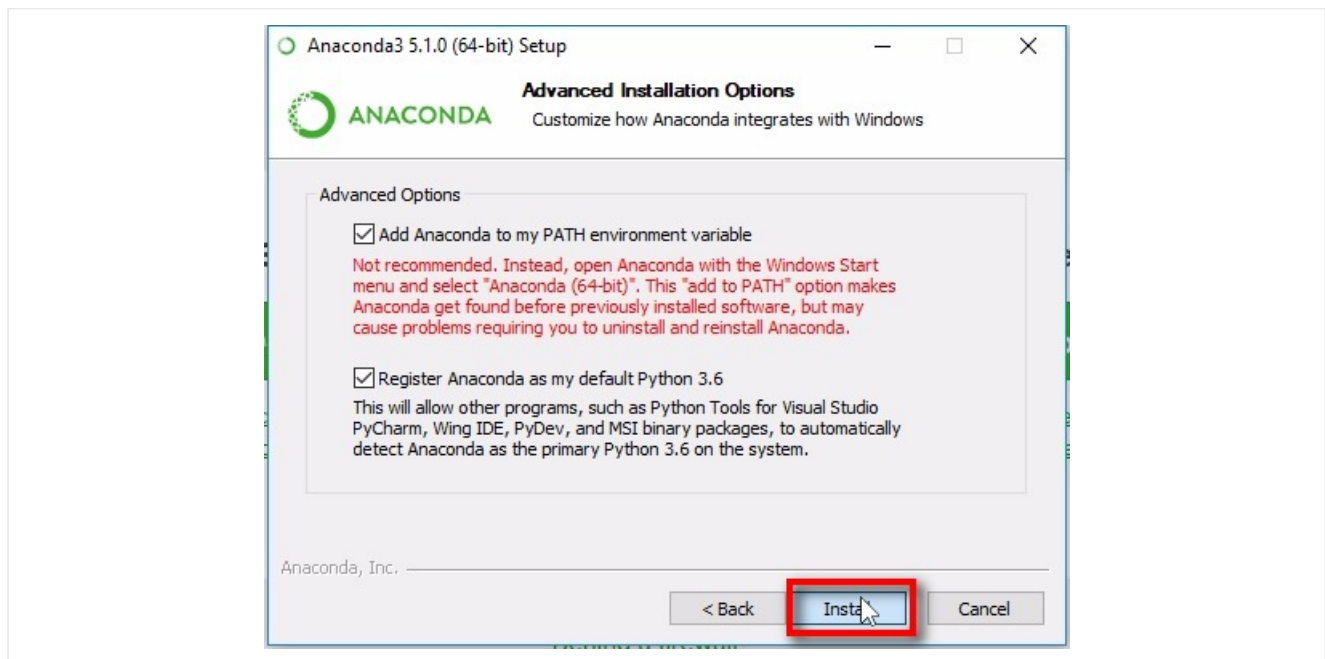


### Check "Add Anaconda to my PATH environment variable"

While this is "not recommended" - in the course we'll be demonstrating how to run Python programs in the command line. Selecting this option will make sure that the demonstration works. If you have problems later on as a result of this installation, you can un-install anaconda after the course.

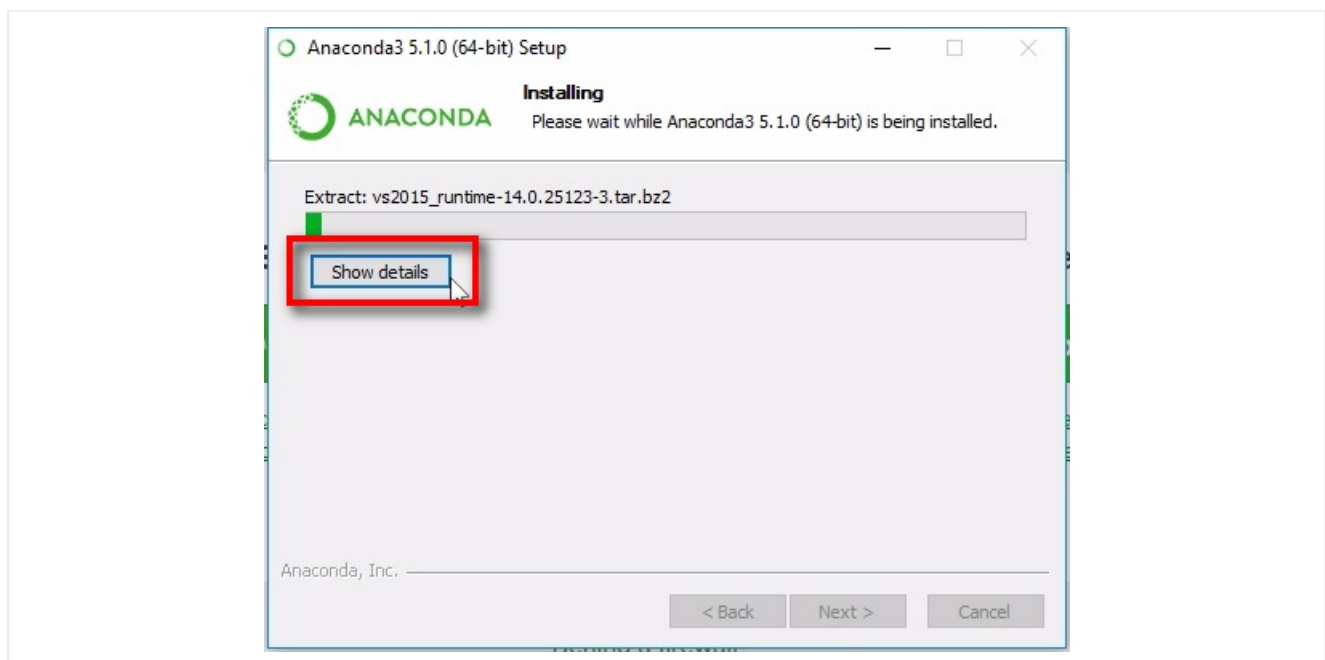
If you'd rather not install this setting, one minor demonstration of the course won't work for you.





### Click on "Install" button

Continue the installation



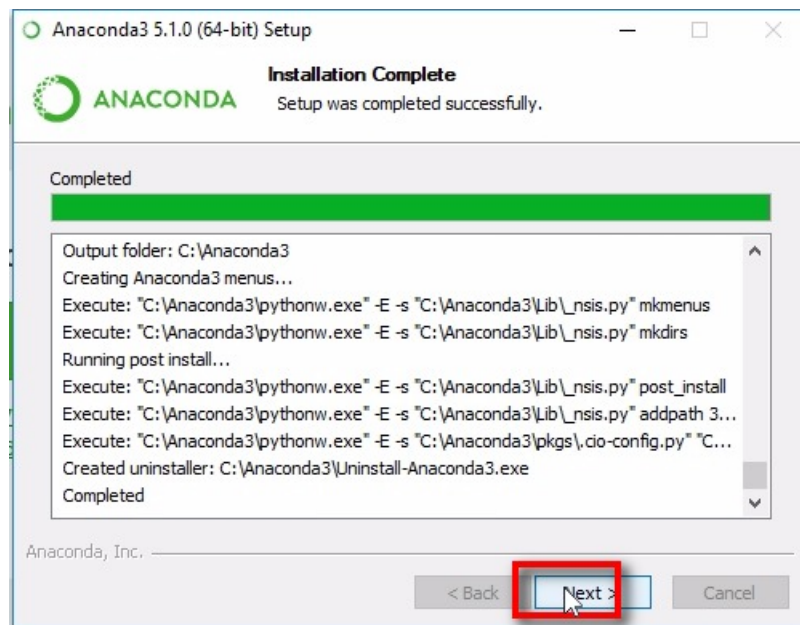
### Installation will progress

This will take time!

If you want, you can choose "show details" in order to see additional installation information.

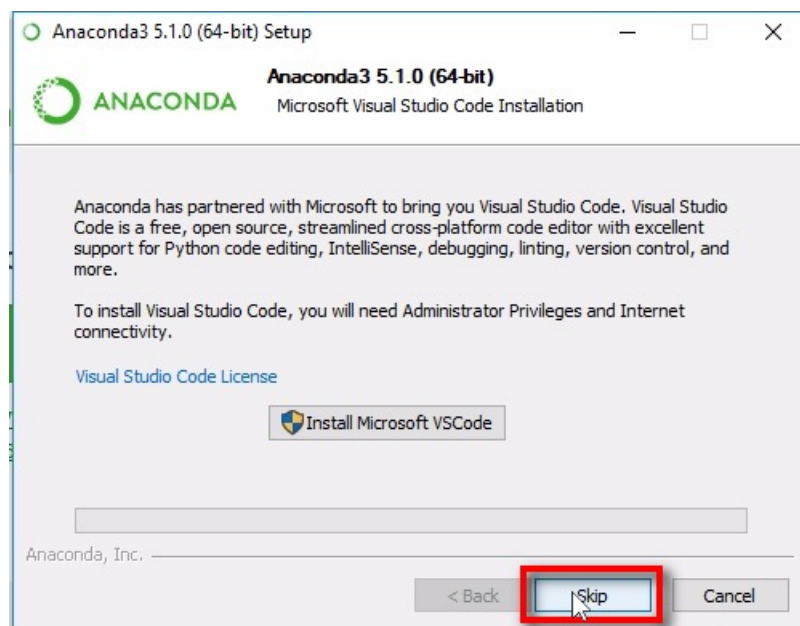






## Installation will complete

Click on "Next >" button.



## Visual Studio Code

Click on "Skip" button, to skip this optional installation. The course doesn't use it, and you don't need to install it.



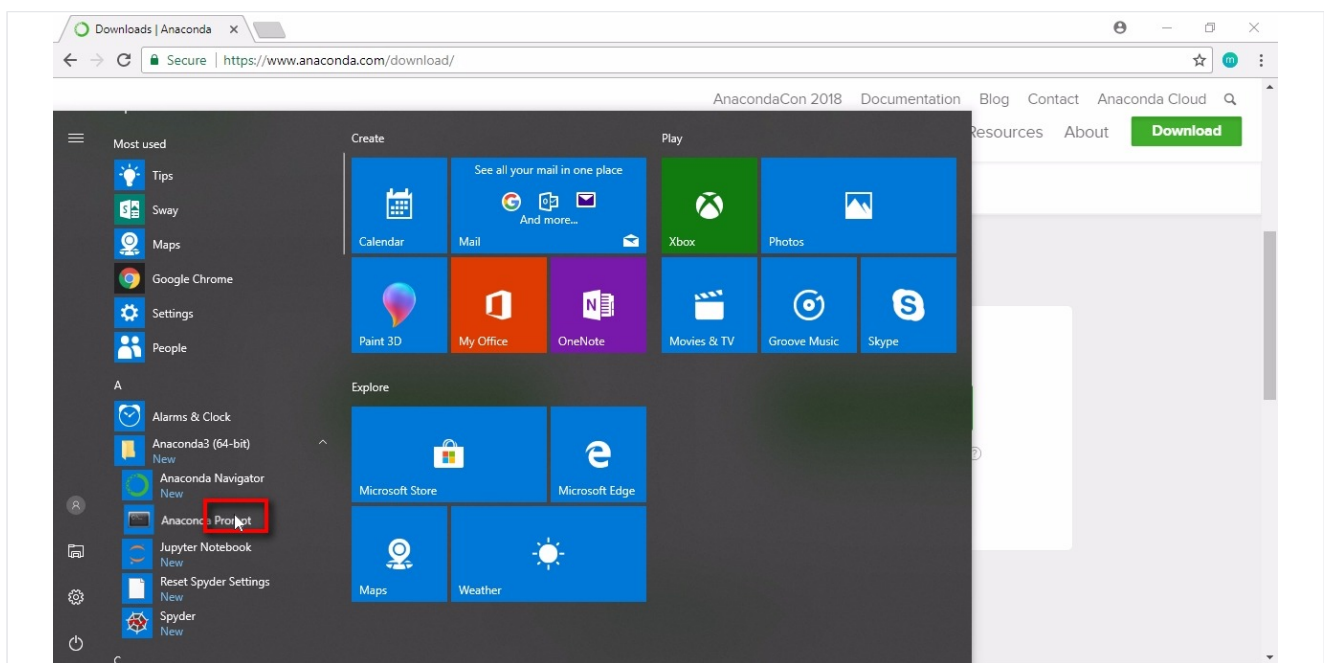


## Installation is complete

You can Uncheck "Learn more about Anaconda Cloud", as well as "Learn how to get started with Anaconda", if you wish.

Finally, you click on Finish to close the installer.

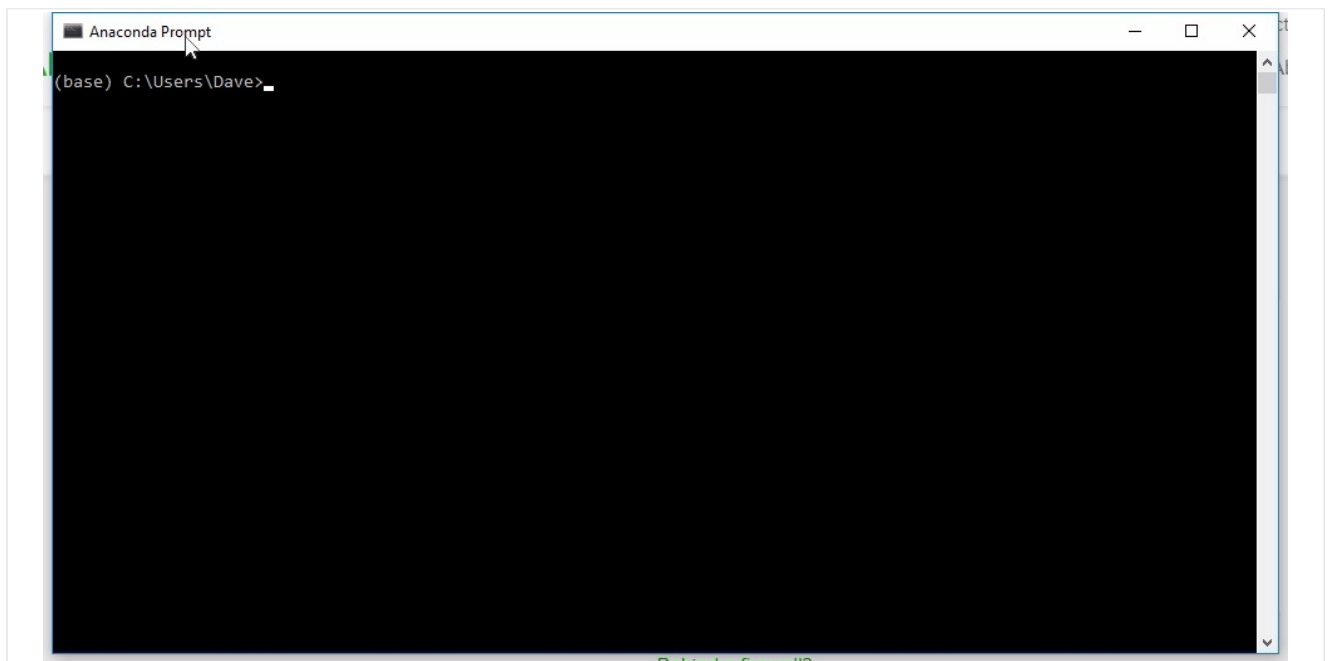
## Verifying the Installation



## Starting Anaconda Prompt

Select "Anaconda3 (64-bit)" folder from the windows menu, and then "Anaconda Prompt"

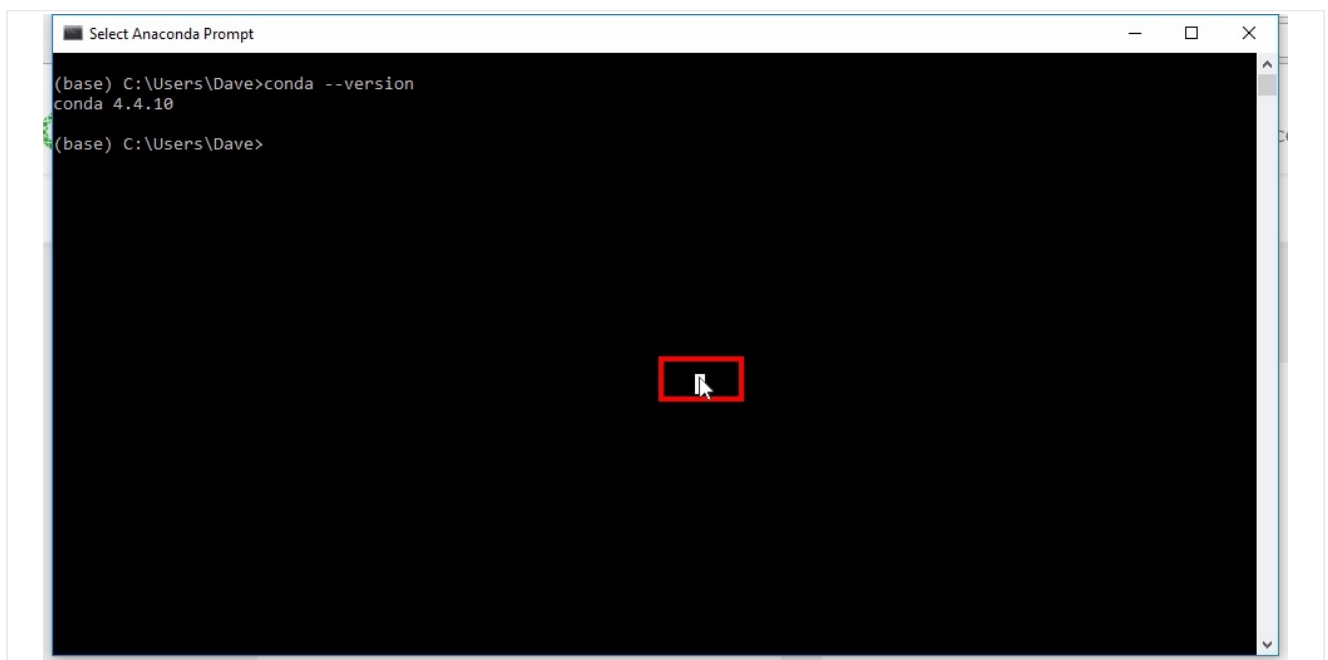




### The Anaconda Prompt

Once the Anaconda prompt has started, enter the following command:

`conda --version`



### Click on "Text Area" document

The following (or later) version should display.

Once you've verified this, we should check that installed packages to make sure everything looks clean.

Enter:

`conda list`



```
Select Anaconda Prompt

(base) C:\Users\Dave>conda --version
conda 4.4.10

(base) C:\Users\Dave>conda list
# packages in environment at C:\Anaconda3:
#
# Name                    Version            Build    Channel
_ipyw_jlab_nb_ext_conf    0.1.0              py36he6757f0_0
alabaster                  0.7.10             py36hcd07829_0
anaconda                   5.1.0              py36_2
anaconda-client            1.6.9              py36_0
anaconda-navigator         1.7.0              py36_0
anaconda-project           0.8.2              py36hfad2e28_0
asn1crypto                 0.24.0             py36_0
astroid                    1.6.1              py36_0
astropy                    2.0.3              py36hfa6e2cd_0
attrs                      17.4.0             py36_0
babel                      2.5.3              py36_0
backports                  1.0                py36h81696a8_1
backports.shutil_get_terminal_size 1.0.0              py36h79ab834_2
beautifulsoup4             4.6.0              py36hd4cc5e8_1
bitarray                   0.8.1              py36hfa6e2cd_1
bkcharts                   0.2                py36h7e685f7_0
blaze                      0.11.3             py36h8a29ca5_0
bleach                     2.1.2              py36_0
bokeh                      0.12.13            py36h047fa9f_0
boto                       2.48.0             py36h1a776d2_1
bottleneck                 1.2.1              py36hd119dfa_0
bzip2                      1.0.6              hbe05fcf_4
```

## Packages!!!

You'll be presented with a huge list of packages!

```
Anaconda Prompt

traitlets                  4.3.2              py36h096827d_0
typing                     3.6.2              py36hb035bda_0
unicodedev                 0.14.1             py36h6450c06_0
urllib3                    1.22               py36h276f60a_0
vc                          14                 h0510ff6_3
vs2015_runtime             14.0.25123         3
wcwidth                    0.1.7              py36h3d5aa90_0
webencodings               0.5.1              py36h67c50ae_1
werkzeug                   0.14.1             py36_0
wheel                       0.30.0             py36h6c3ec14_1
widgetsnbextension         3.1.0              py36_0
win_inet_pton              1.0.1              py36he67d7fd_1
win_unicode_console        0.5                py36hcd8bd4b5_0
wincertstore               0.2                py36h7fe50ca_0
winpty                     0.4.3              4
wrap                         1.10.11            py36he5f5981_0
xlrd                       1.1.0              py36h1cb58dc_1
xlsxwriter                 1.0.2              py36hf723b7d_0
xlwings                    0.11.5             py36_0
xlwt                       1.3.0              py36h1a4751e_0
yaml                       0.1.7              hc54c509_2
zict                       0.1.3              py36h2d8e73e_0
zlib                       1.2.11             h8395fce_2

(base) C:\Users\Dave>
```

## All done!

At this point, you've completed the verification of Anaconda installation.

Close the window. You now have it fully set up for the course!

**All done! See you in the course!**

