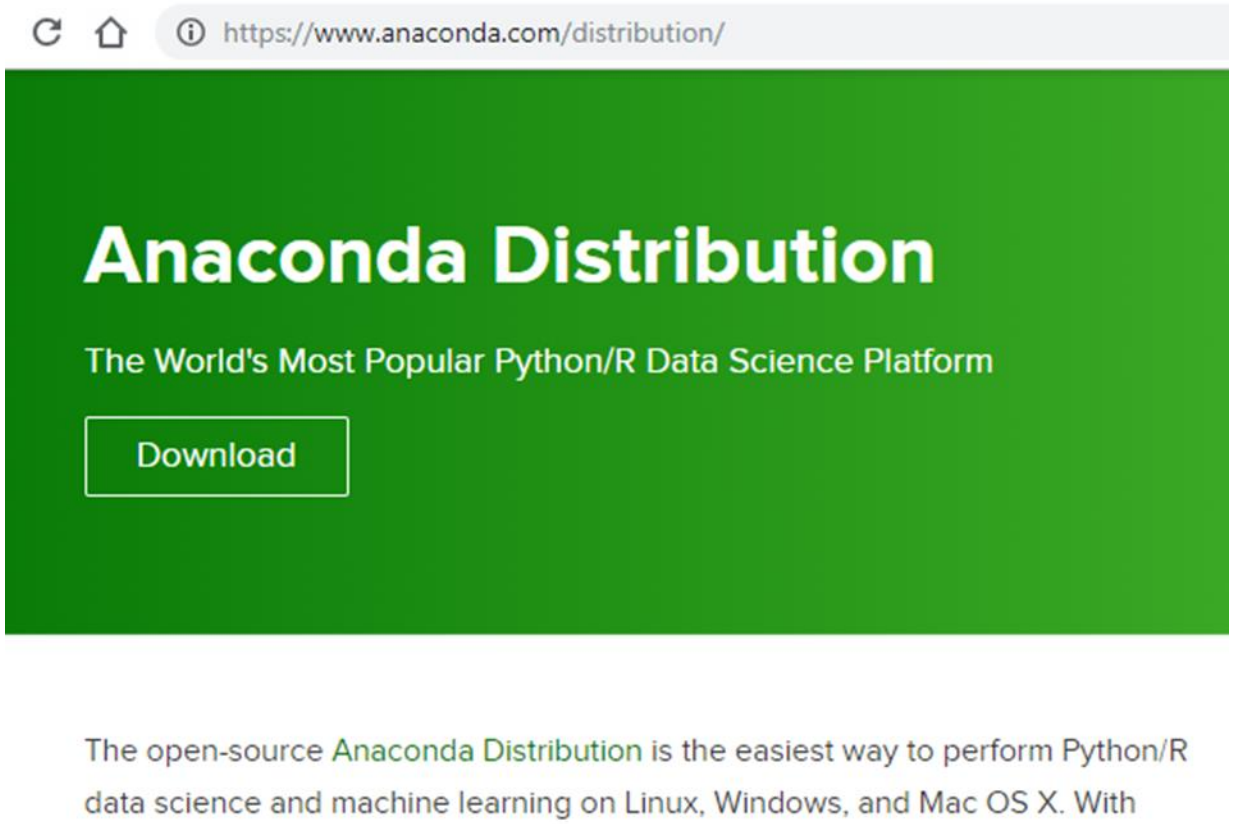
Anaconda Set Up

How to install

About Anaconda

- www.anaconda.com
- Anaconda® is a package manager, an environment manager, a Python/R data science distribution, and a collection of over 1,500+ open source packages. Anaconda is free and easy to install, and it offers free community support.

Download Anaconda



Anaconda Help

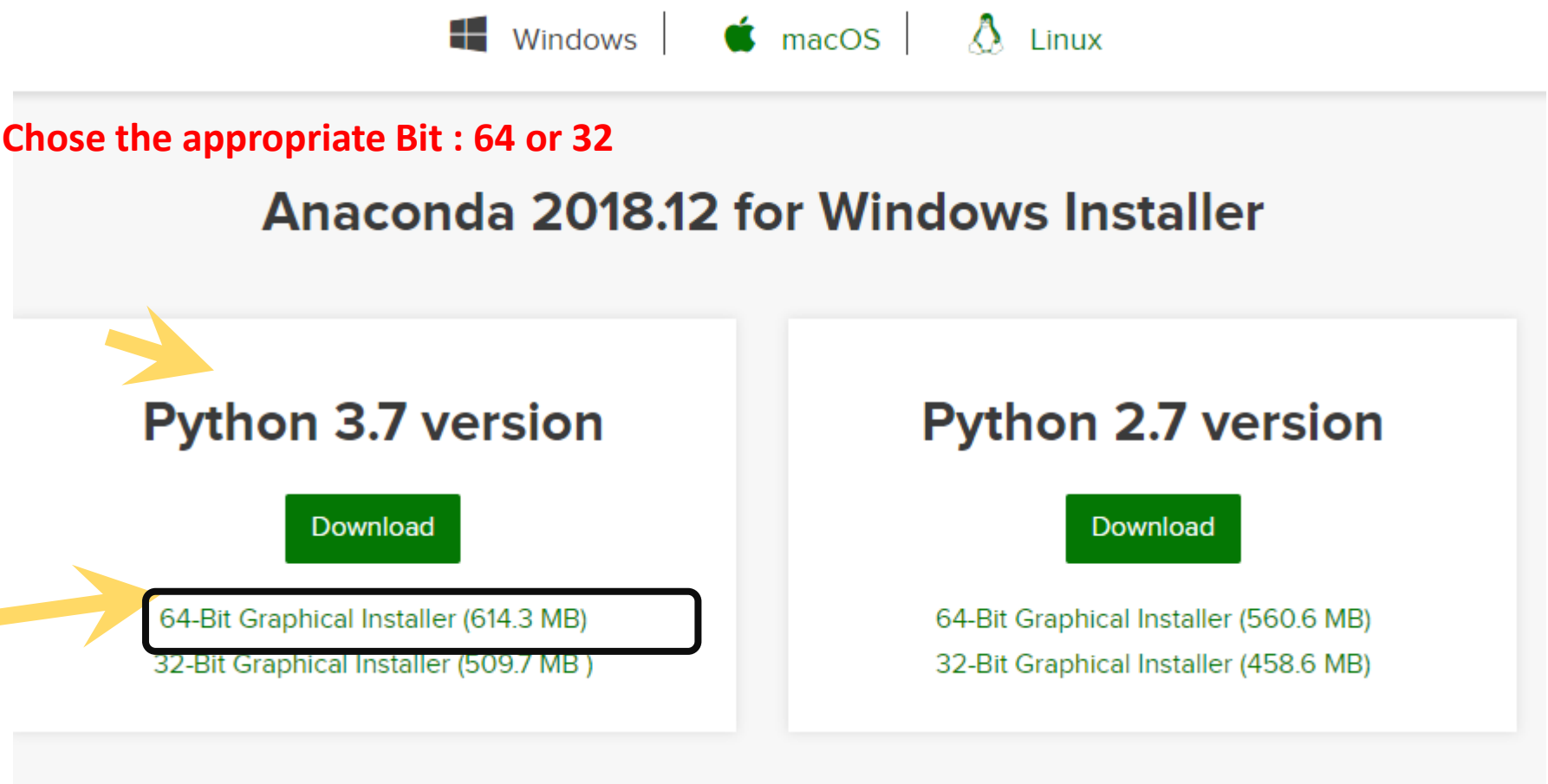
- https://docs.anaconda.com/anaconda/

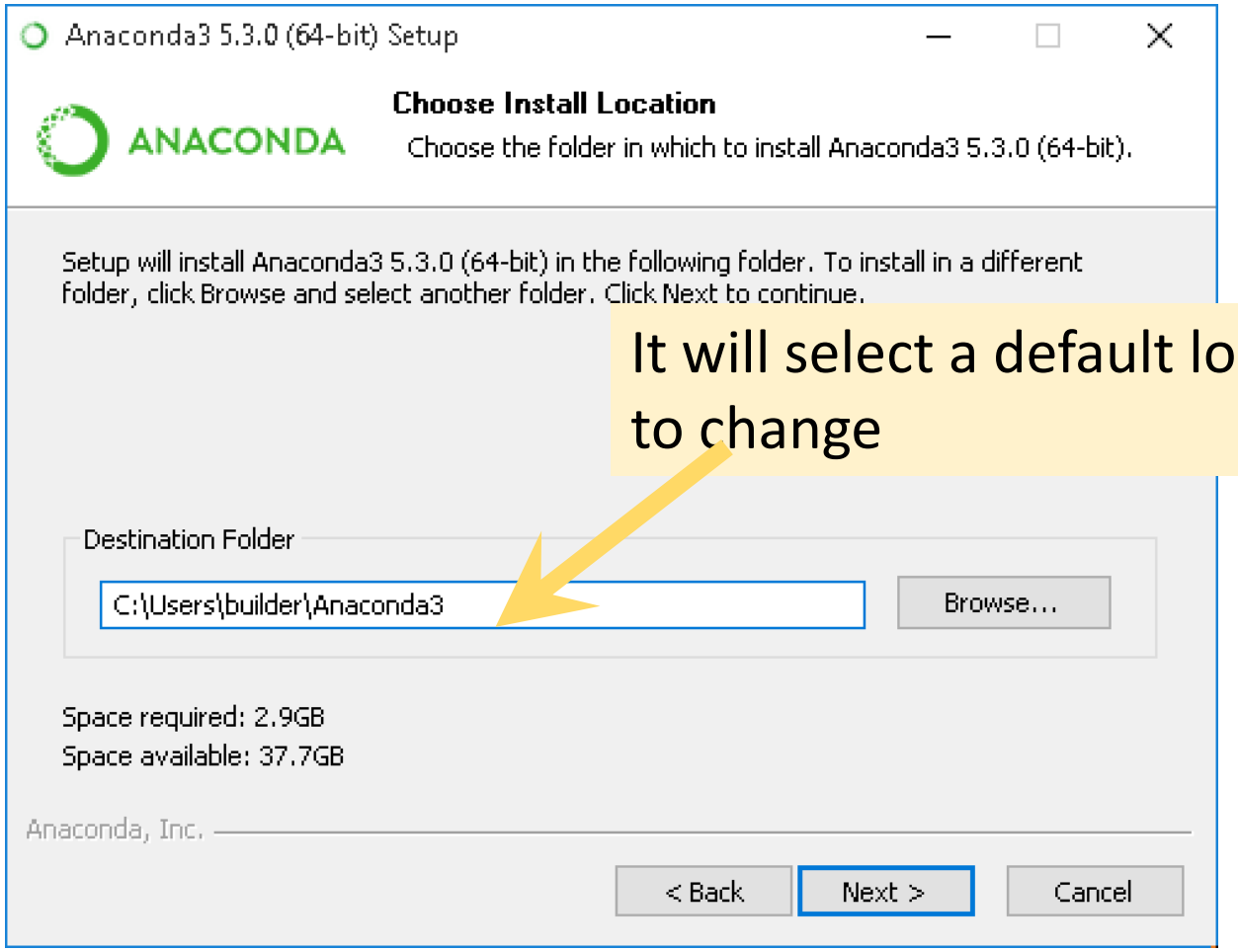
Download Anaconda Distribution

- https://www.anaconda.com/distribution/#windows

Software's in Anaconda

Download Anaconda from https://www.anaconda.com/download/





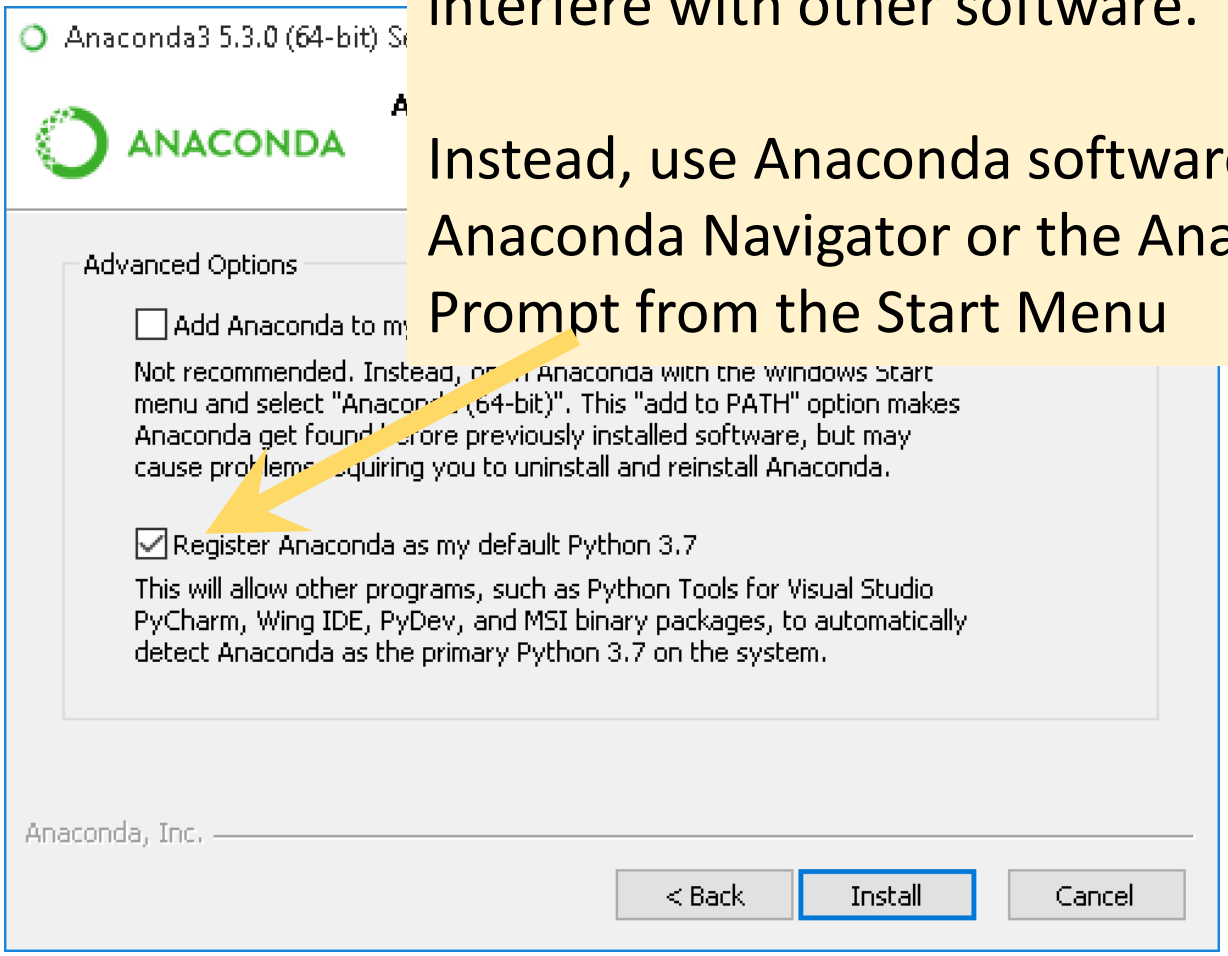
It will select a default location. No need to change

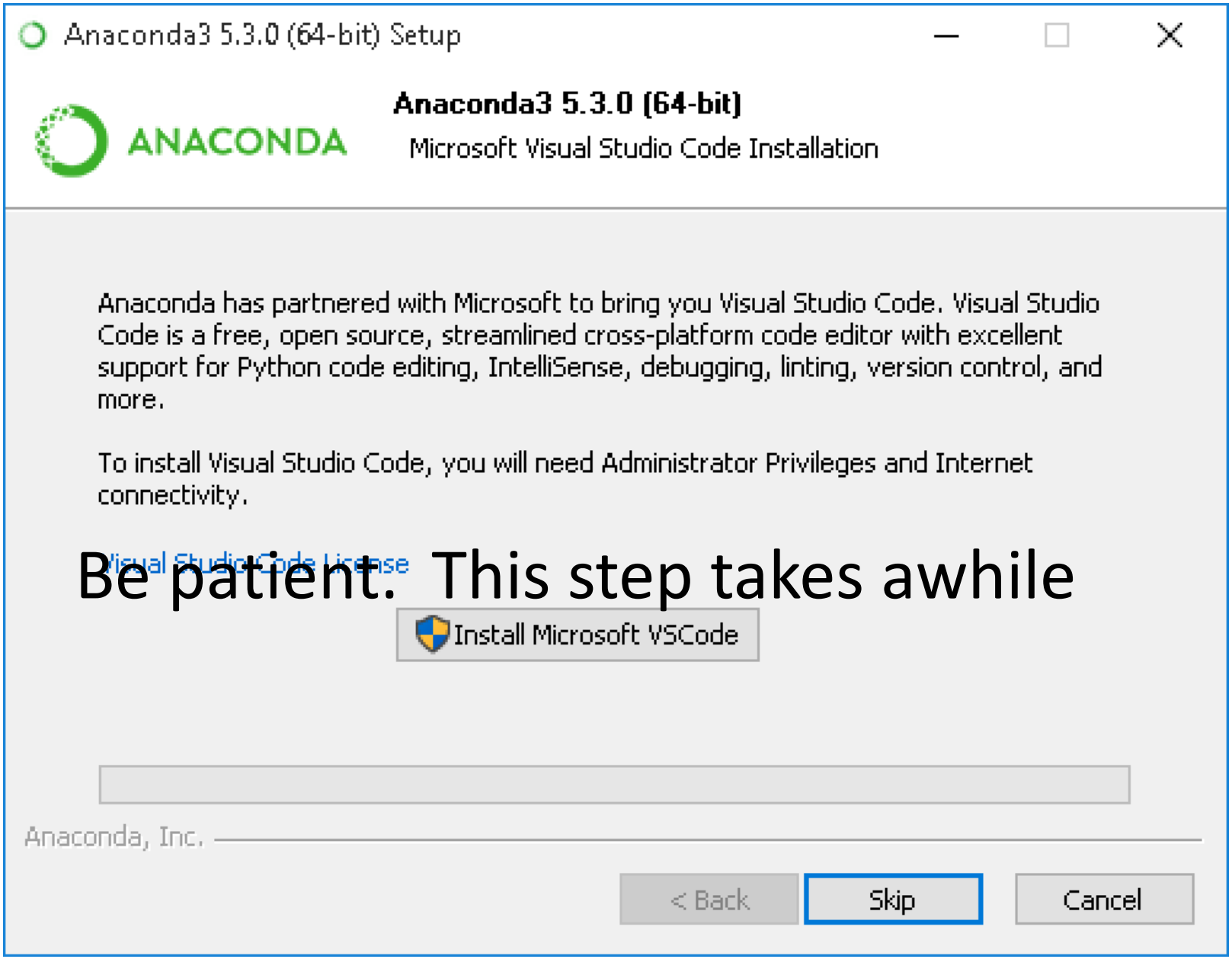
Installation Steps

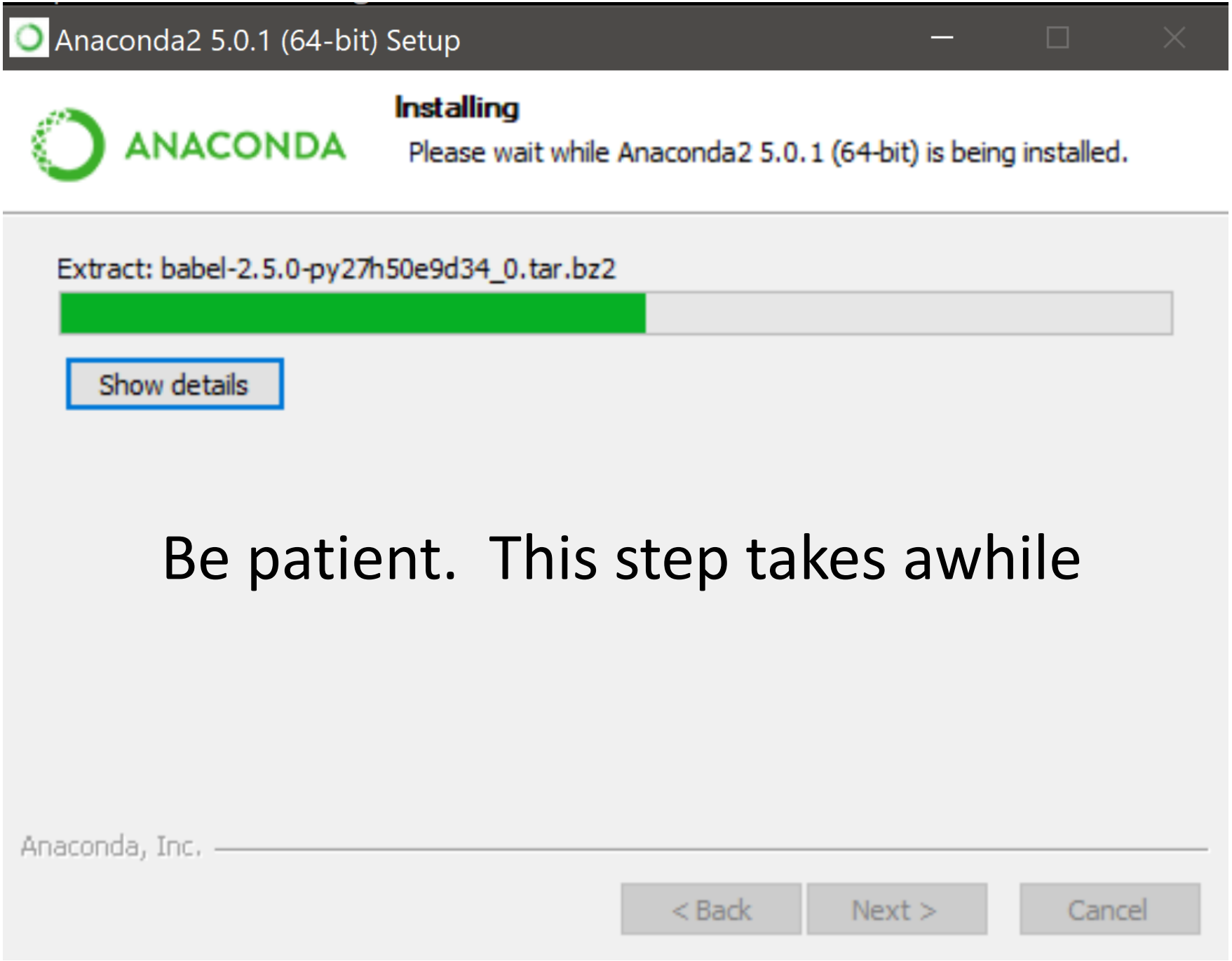
- https://docs.anaconda.com/anaconda/install/windows/

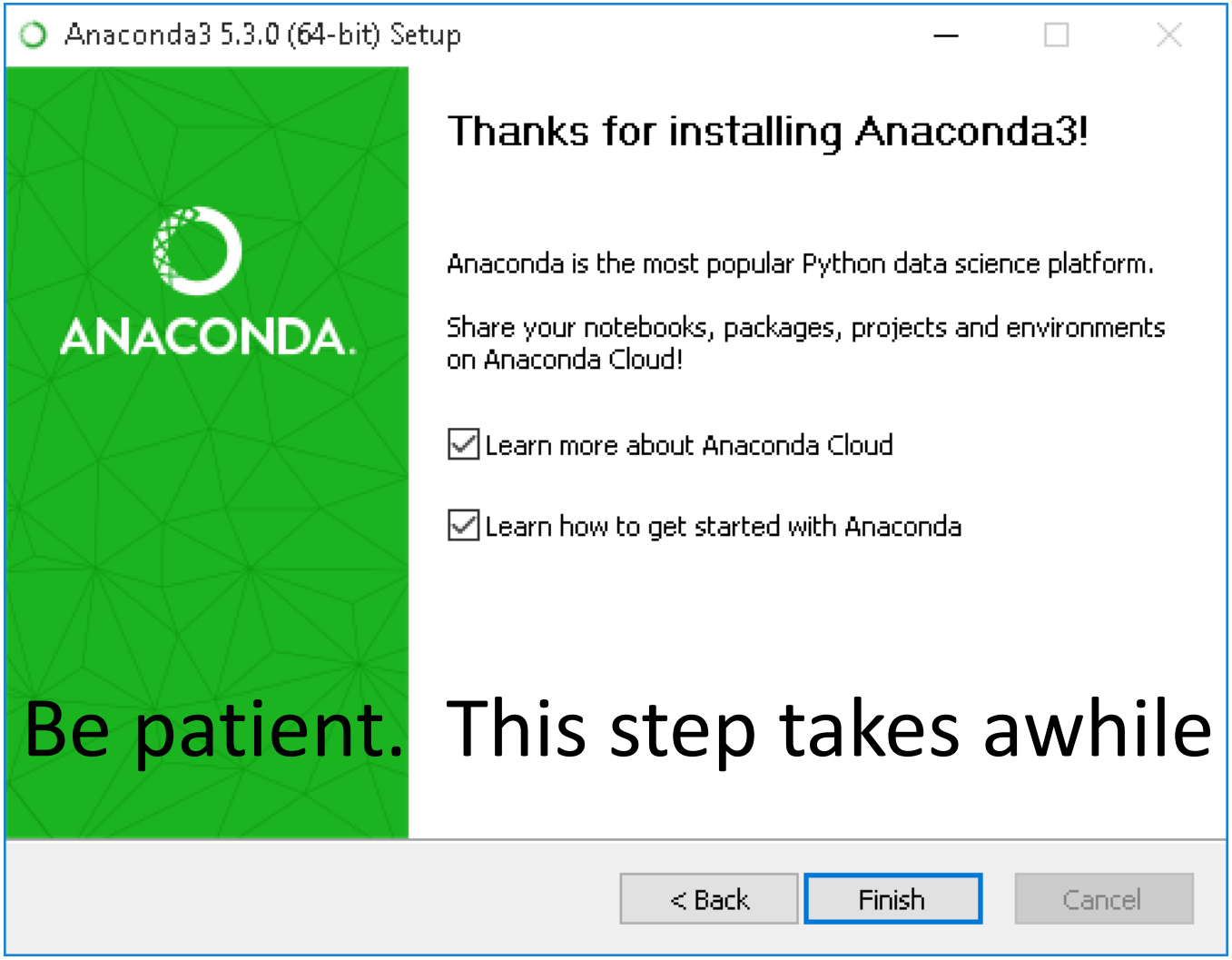
Choose whether to add Anaconda to your PATH environment variable. We recommend not adding Anaconda to the PATH environment variable, since this can interfere with other software.

Instead, use Anaconda software by opening Anaconda Navigator or the Anaconda Prompt from the Start Menu




Anaconda3 5.3.0 (64-bit) Setup
ANACONDA
Anaconda3 5.3.0 (64-bit)
Microsoft Visual Studio Code Installation
Anaconda has partnered with Microsoft to bring you Visual Studio Code. Visual Studio Code is a free, open source, streamlined cross-platform code editor with excellent support for Python code editing, IntelliSense, debugging, linting, version control, and more.
To install Visual Studio Code, you will need Administrator Privileges and Internet connectivity.
Visual Studio Code License
Be patient. This step takes awhile
Install Microsoft VSCode
Anaconda, Inc.
< Back
Skip
Cancel


Anaconda2 5.0.1 (64-bit) Setup
ANACONDA
Installing
Please wait while Anaconda2 5.0.1 (64-bit) is being installed.
Extract: babel-2.5.0-py27h50e9d34_0.tar.bz2
Show details
Be patient. This step takes awhile
Anaconda, Inc.
< Back
Next >
Cancel

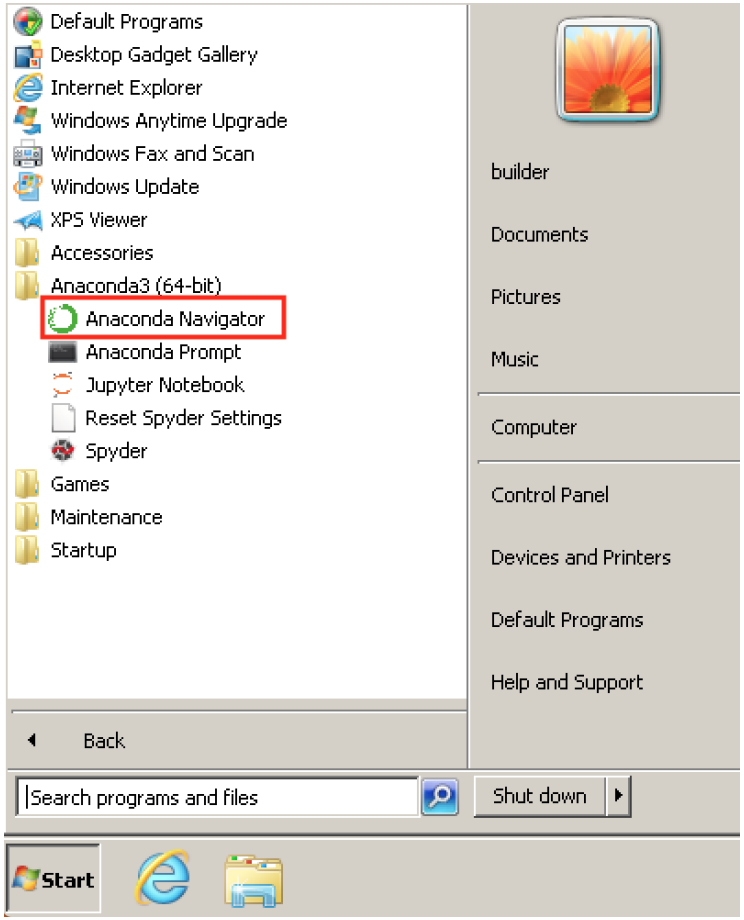


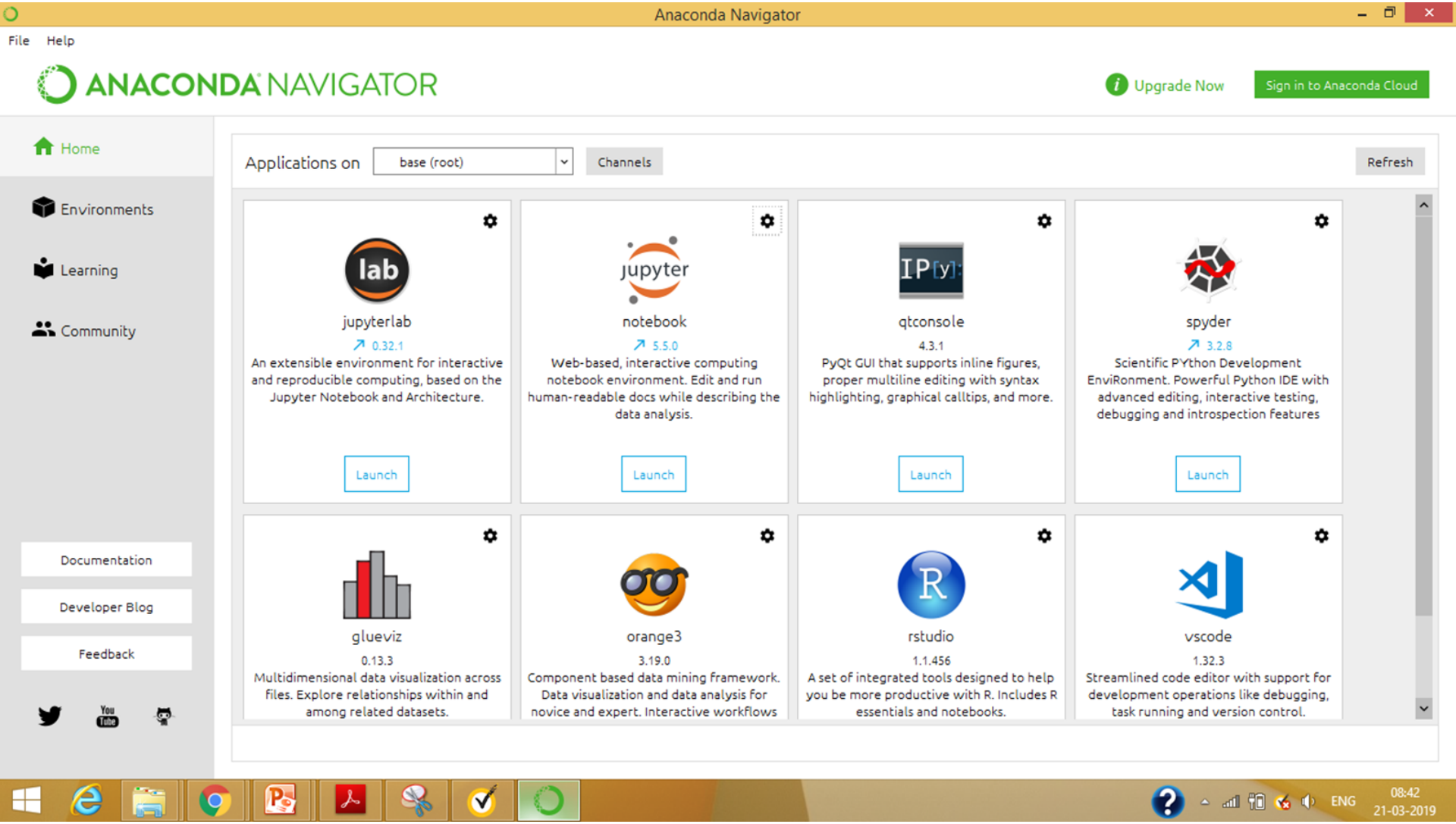
Be patient. This step takes awhile

Starting Anaconda Navigator

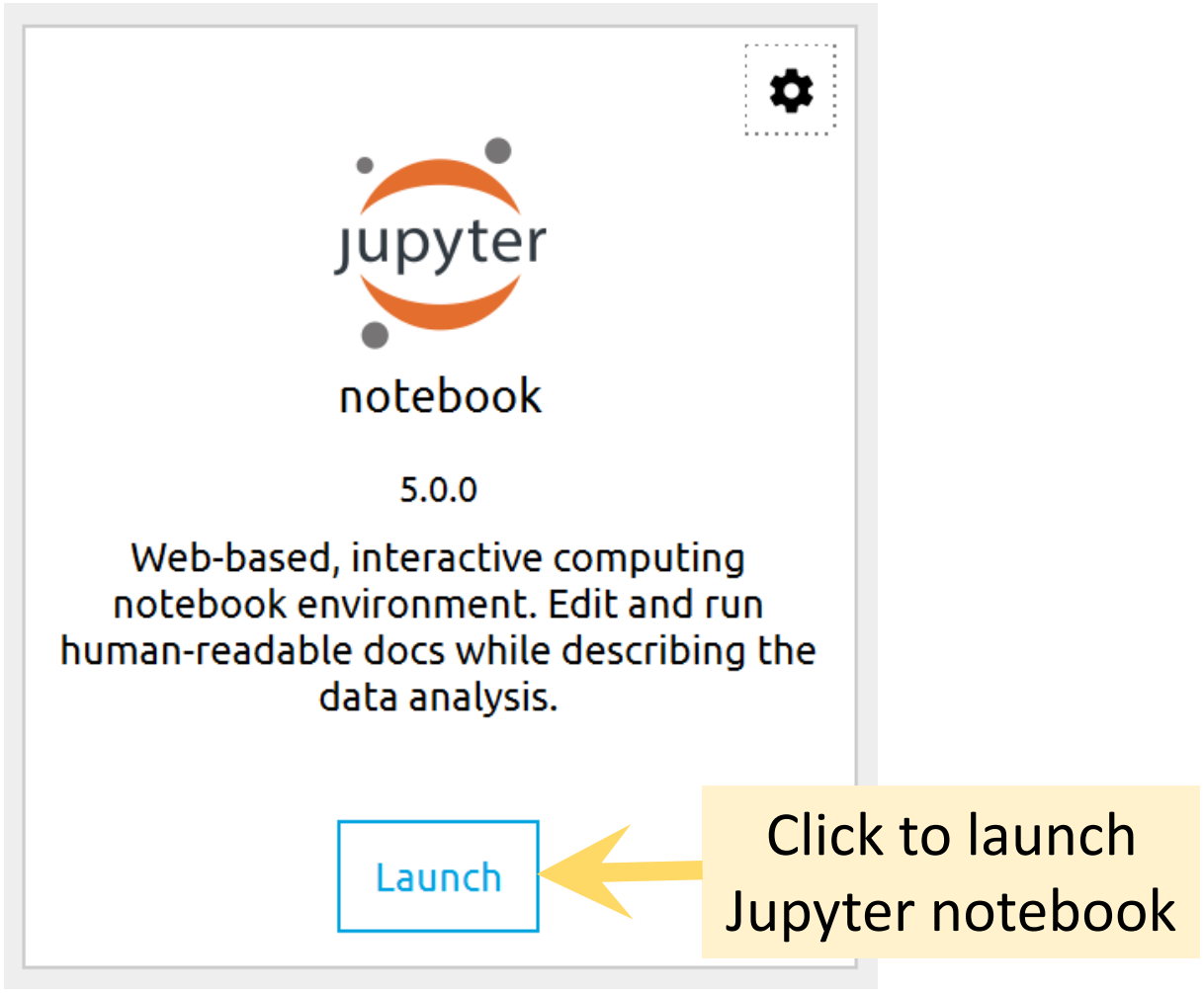
- After your install is complete, verify it by opening Anaconda Navigator, a program that is included with Anaconda: from your Windows Start menu, select the shortcut Anaconda Navigator. If Navigator opens, you have successfully installed Anaconda. If not, check that you completed each step above

Starting Anaconda Navigator




Anaconda Navigator
File
Help
ANACONDA NAVIGATOR
Upgrade Now
Sign in to Anaconda Cloud
Home
Environments
Learning
Community
Documentation
Developer Blog
Feedback
Applications on
base (root)
Channels
Refresh
jupyterlab
0.32.1
An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.
Launch
notebook
5.5.0
Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.
Launch
qtconsole
4.3.1
PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.
Launch
spyder
3.2.8
Scientific PYthon Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features
Launch
glueviz
0.13.3
Multidimensional data visualization across files. Explore relationships within and among related datasets.
orange3
3.19.0
Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows
rstudio
1.1.456
A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.
vscode
1.32.3
Streamlined code editor with support for development operations like debugging, task running and version control.
ENG
08:42
21-03-2019

To run, open Anaconda Navigator



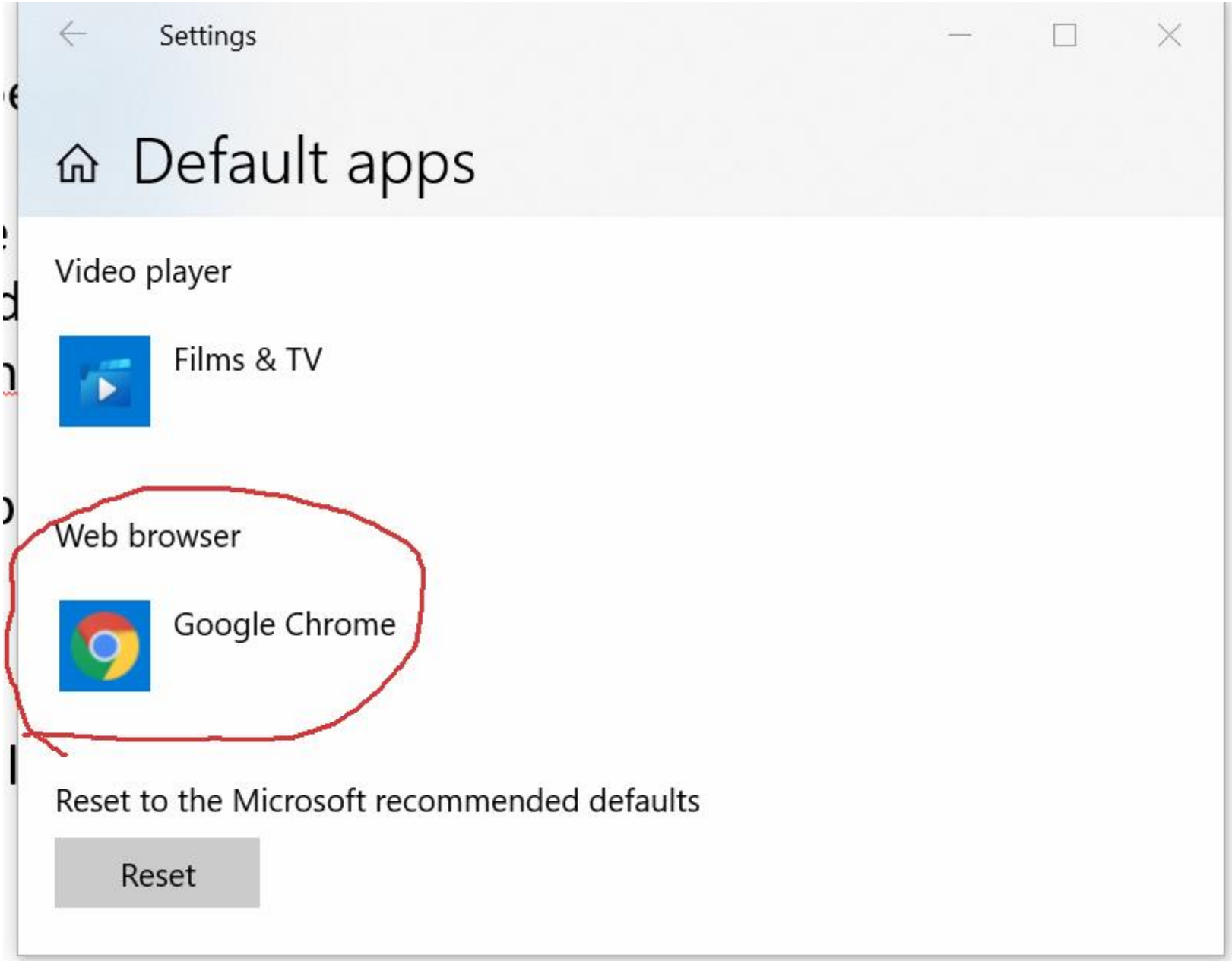
If Jupyther opens in Internet Explorer (IE):

To change the default browser when,
open Anaconda Navigator,
Launch Jupyther

On you laptop click on

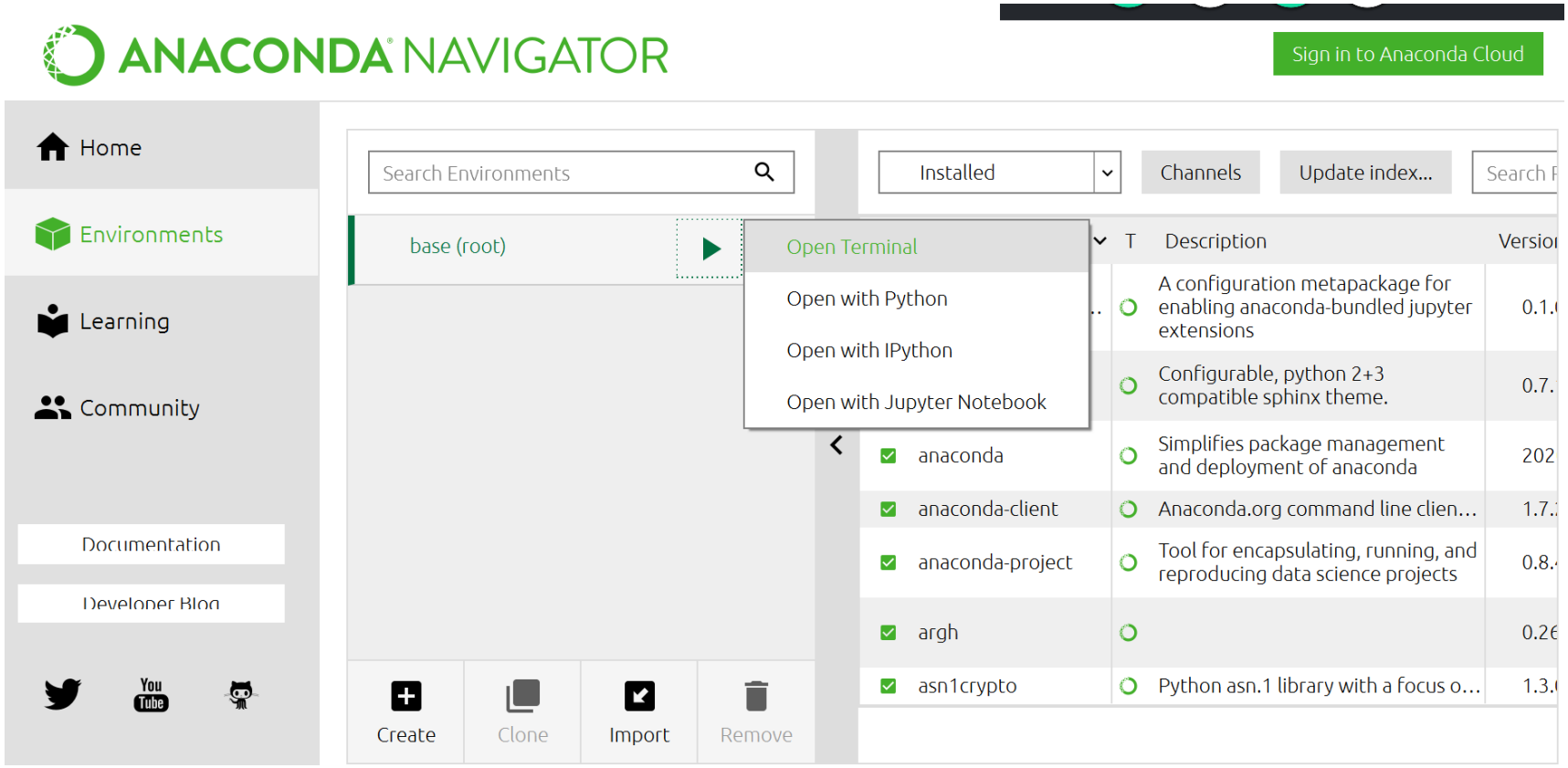
settings ->apps->default apps

Set the default browser to Chrome


Settings
Default apps
Video player
Films & TV
Web browser
Google Chrome
Reset to the Microsoft recommended defaults
Reset

Change file path for jupyther

To generate, config file jupyter_notebook_config.py

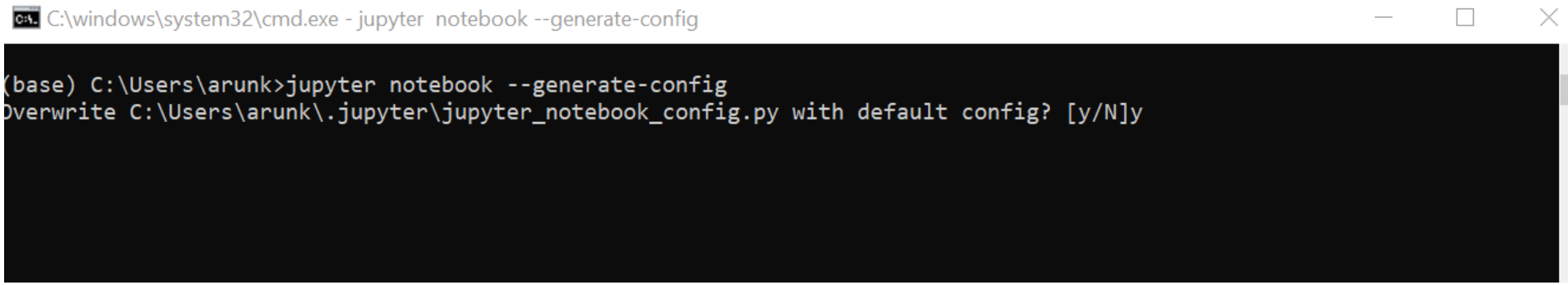


To generate, config file jupyter_notebook_config.py

Check path for config file. (First time users will not have jupyter_notebook_config.py, so we have to Generate the File.)

C:\Users\HP\.jupyter
Open the terminal and run the following code to generate the config file

>jupyter notebook --generate-config



To change the file path for jupyther- add file path

Make changes to the jupyter_notebook_config.py file:

- C:\Users\HP\.jupyter
- jupyter_notebook_config.py
- Add the file path:

The directory to use for notebooks and kernels.

#c.NotebookApp.notebook_dir = 'C:/25July2018/Analytics_Learning2018'

```
## A custom url for MathJax.js. Should be in the form of a case-sensitive url to
#  MathJax, for example:  /static/components/MathJax/MathJax.js
#c.NotebookApp.mathjax_url = ''

## Dict of Python modules to load as notebook server extensions.Entry values can
#  be used to enable and disable the loading ofthe extensions. The extensions
#  will be loaded in alphabetical order.
#c.NotebookApp.nbserver_extensions = {}

## The directory to use for notebooks and kernels.
#c.NotebookApp.notebook_dir = ''

## Whether to open in a browser after starting. The specific browser used is
#  platform dependent and determined by the python standard library `webbrowser`
#  module, unless it is overridden using the --browser (NotebookApp.browser)
#  configuration option.
#c.NotebookApp.open_browser = True
```

To change the file path

- C:\Users\HP\.jupyter
- ## The directory to use for notebooks and kernels.
- #c.NotebookApp.notebook_dir = 'C:/25July2018/Analytics_Learning2018’

(“Note the file paths”)

- c.NotebookApp.notebook_dir = 'C:/25July2018/Analytics_Learning2018/ExcelRDemo/DeepLearningTutorial’

- Uncomment the config file

To change the file path

- C:\Users\HP\.jupyter
- ## The directory to use for notebooks and kernels.

- c.NotebookApp.notebook_dir = 'C:\\25July2018\\Analytics_Learning2018\\ExcelRDemo\\DeepLearningTutorial'

How to use Jupyther

Saving/Loading Notebooks

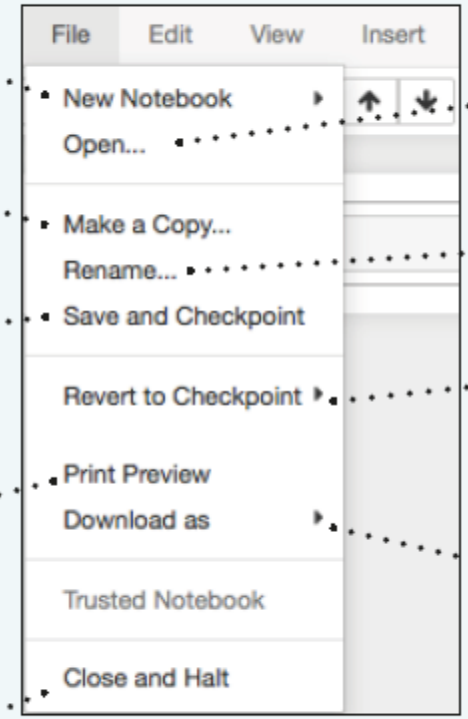
Create new notebook

Make a copy of the current notebook

Save current notebook and record checkpoint

Preview of the printed notebook

Close notebook & stop running any scripts



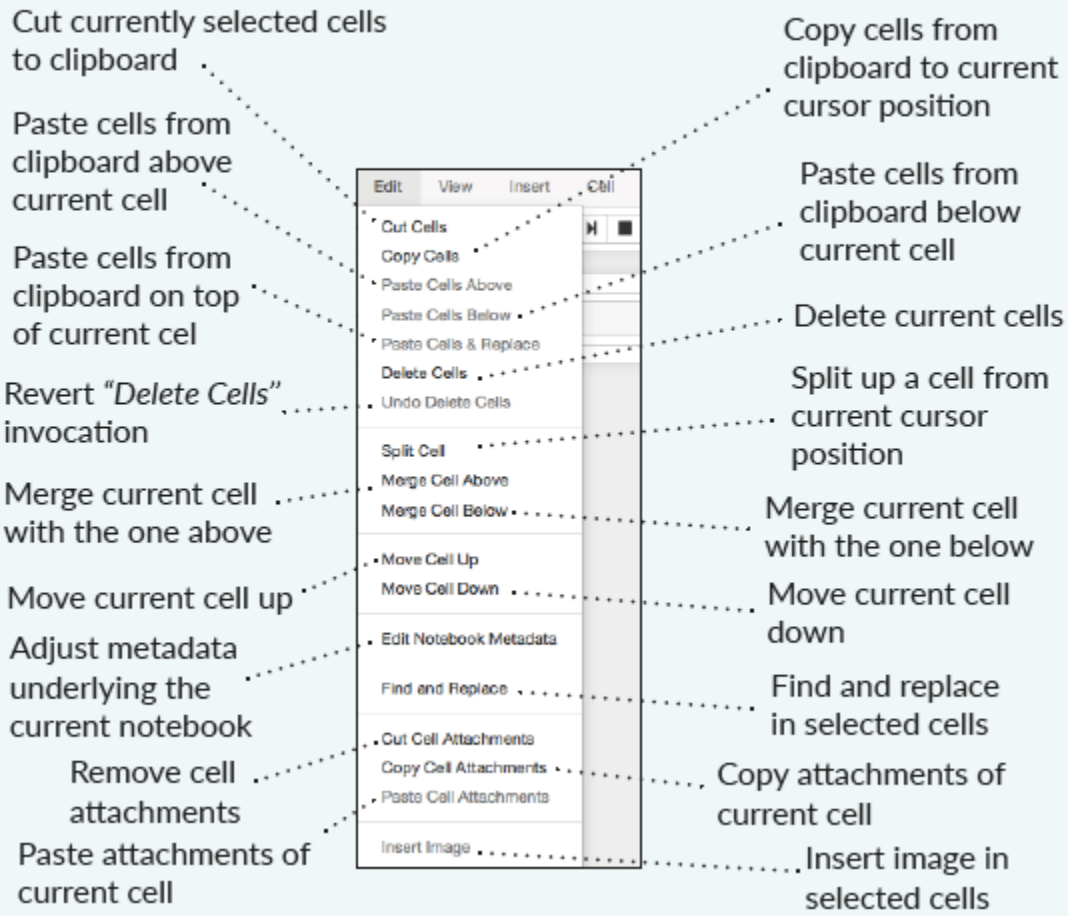
Open an existing notebook

Rename notebook

Revert notebook to a previous checkpoint

Download notebook as
- IPython notebook
- Python
- HTML
- Markdown
- reST
- LaTeX
- PDF

Edit Cells



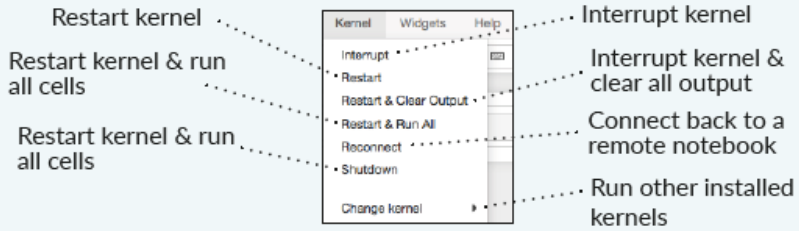
Insert Cells

Working with Different Programming Languages

Kernels provide computation and communication with front-end interfaces like the notebooks. There are three main kernels:

IPython IRkernel IJulia

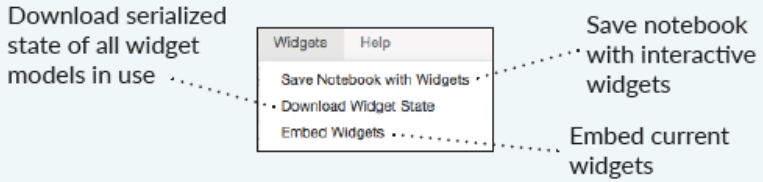
Installing Jupyter Notebook will automatically install the IPython kernel.



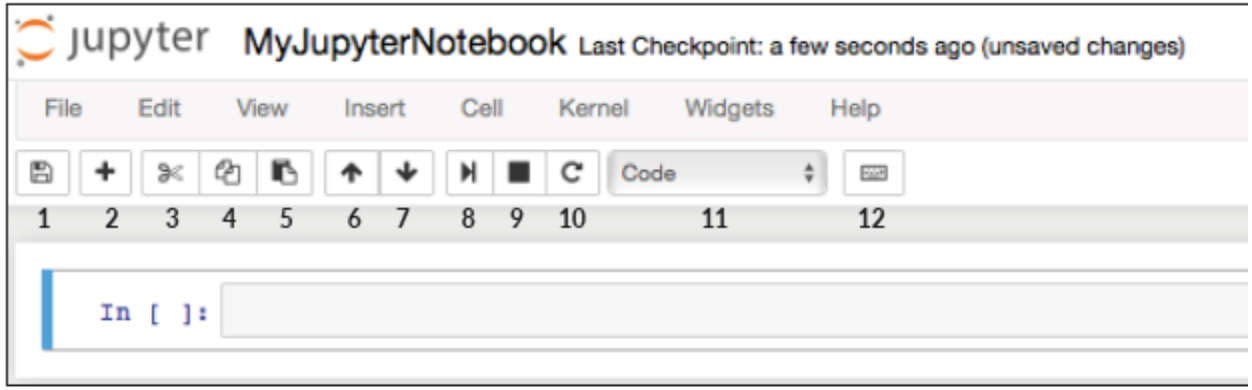
Widgets

Notebook widgets provide the ability to visualize and control changes in your data, often as a control like a slider, textbox, etc.

You can use them to build interactive GUIs for your notebooks or to synchronize stateful and stateless information between Python and JavaScript.

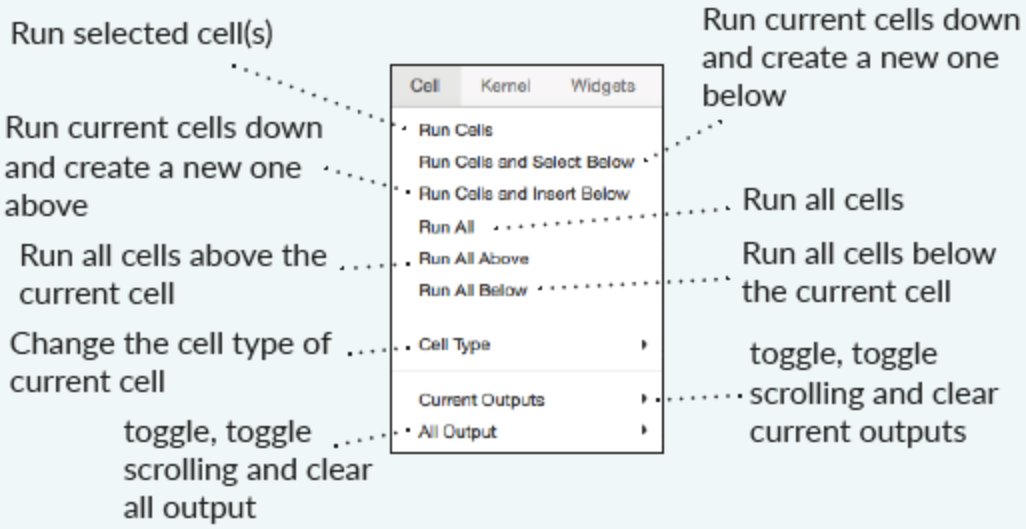


Command Mode:

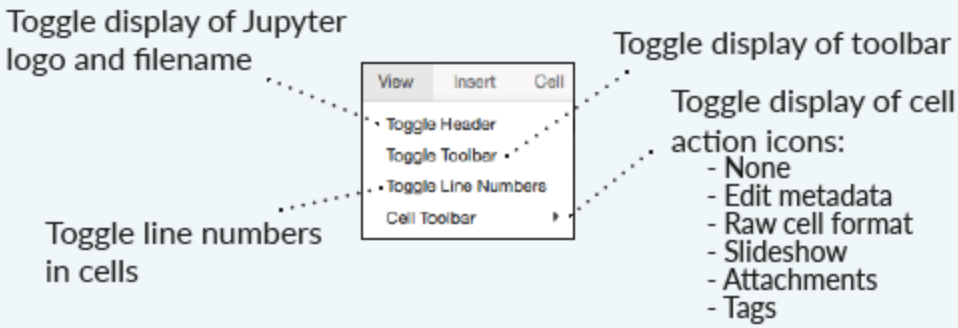


Edit Mode:

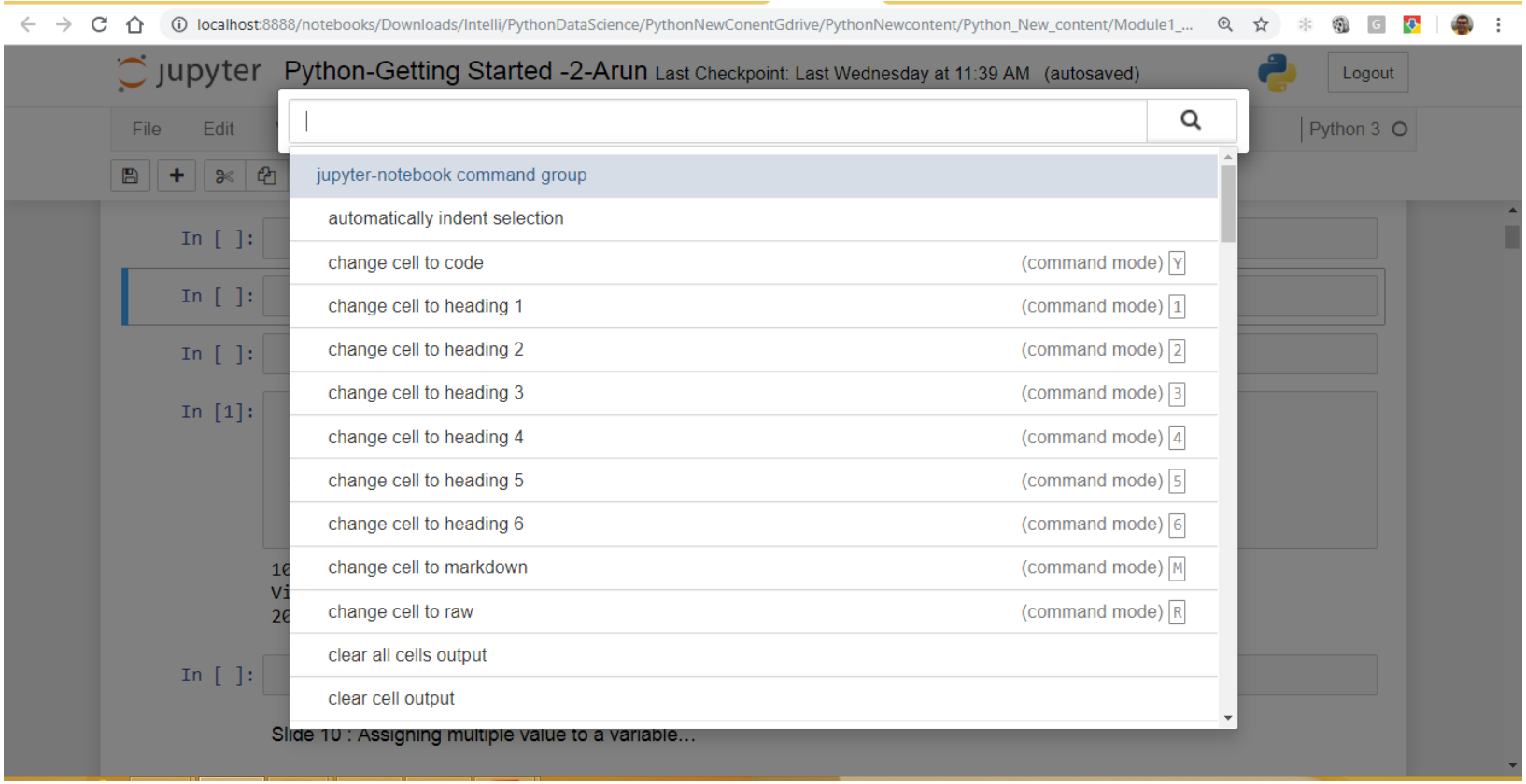
Executing Cells



View Cells



Another way to access keyboard shortcuts, Ctrl + Shift + P Windows)



End

```
import os
os.getcwd()
```

Convert notebook to .py

- jupyter nbconvert --to script [YOUR_NOTEBOOK].ipynb

- jupyter nbconvert --execute --to pdf notebook.ipynb