MSAS Tutorial Sequence -Module One-

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WELCOME TO MSAS

What is MSAS?

- Designed to introduce you to the world of sports analytics
- Give you the opportunity to learn and apply essential skills
- Network with other students that have similar interests as you
- Work with experienced leaders and faculty members
- Get hands-on experience with real data
- Talk sports!

What is the point of these tutorials?

1. Get you set up with a familiar environment
2. Provide you with a foundation that you may not learn in the classroom
3. Teach you what you need to know in order to get started on a research project

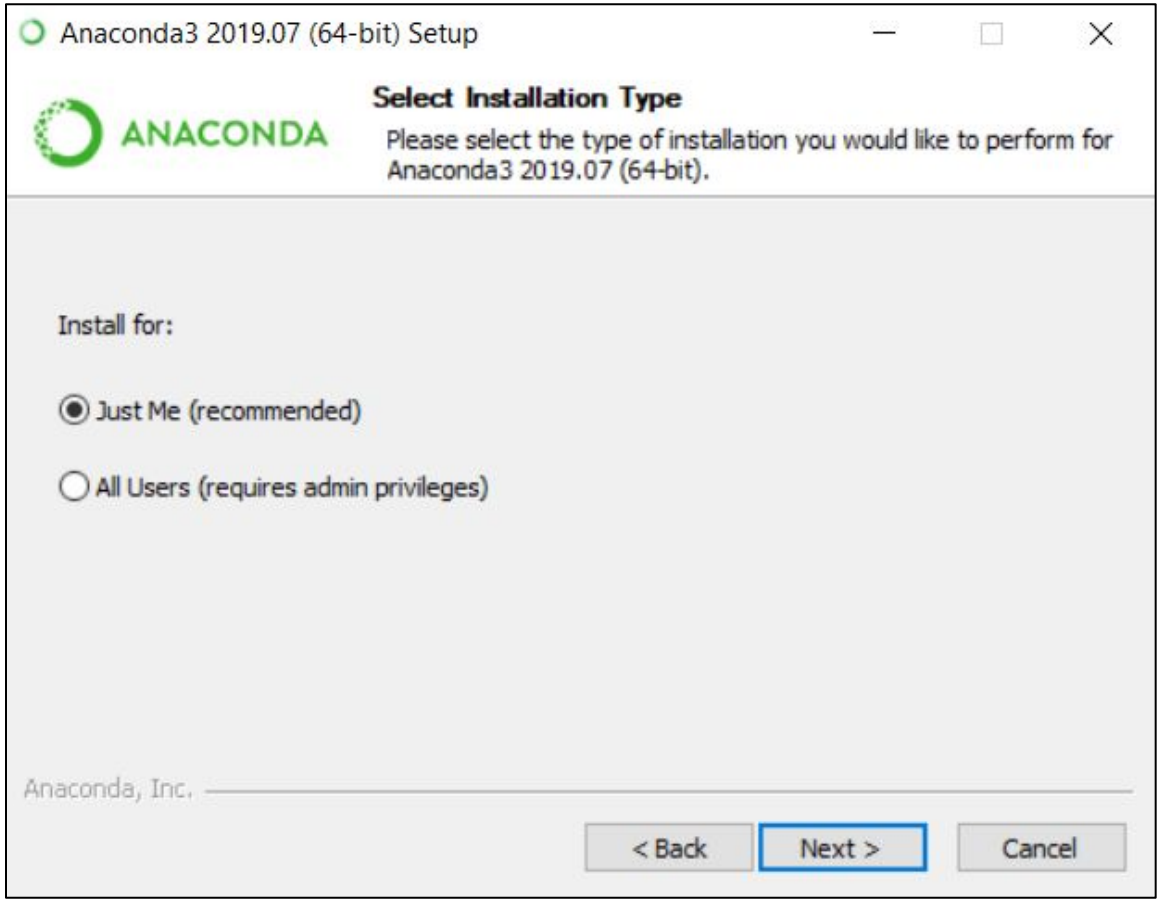
Who am I?

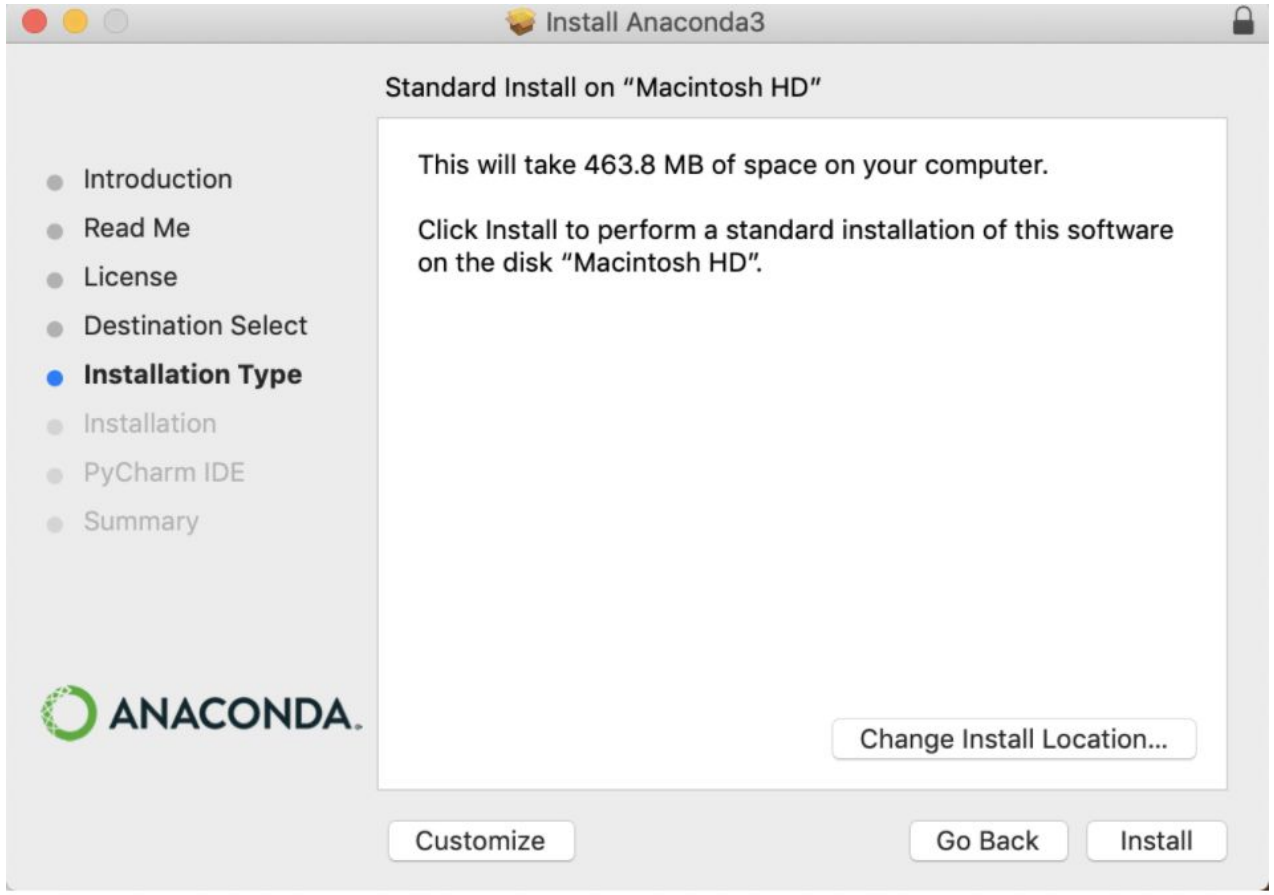
Goals of Today

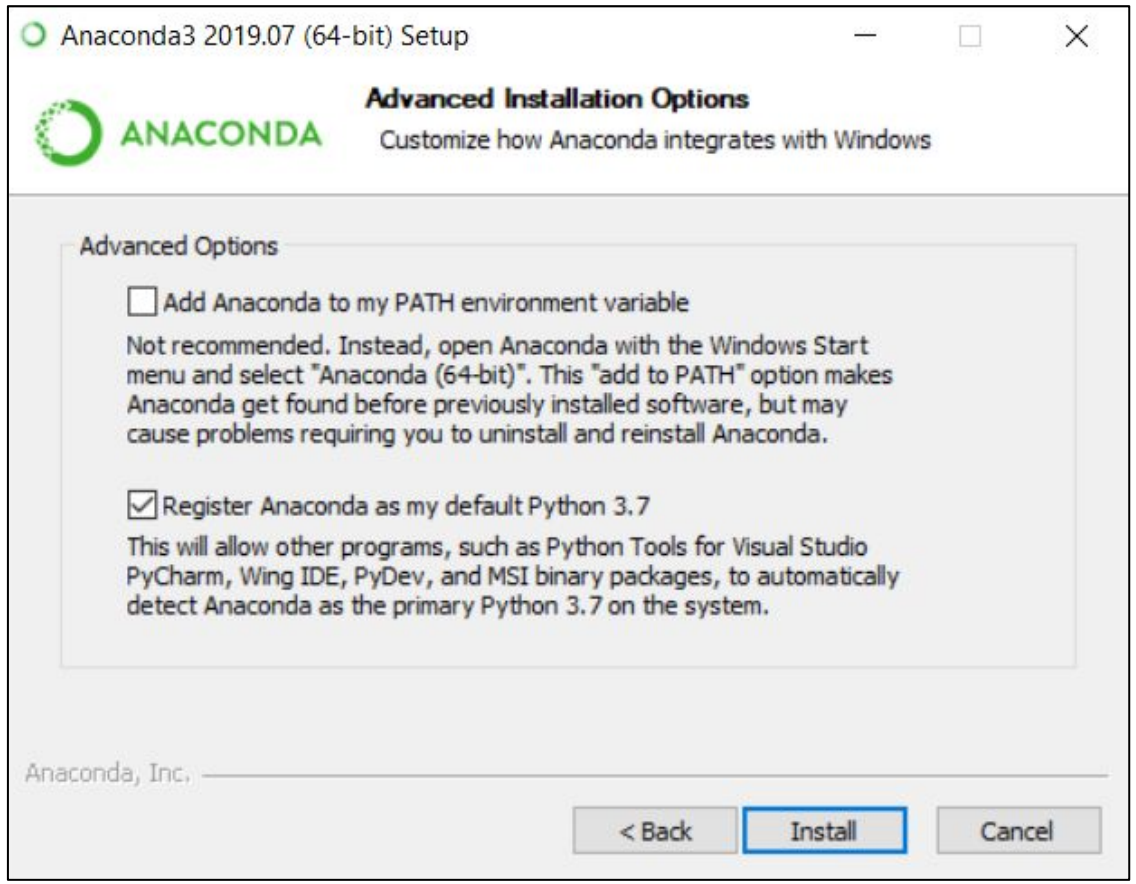
1. Install Anaconda (Mandatory)
2. General Questions
3. Set up GitHub Account (Optional)
4. Set Up Your Command Line

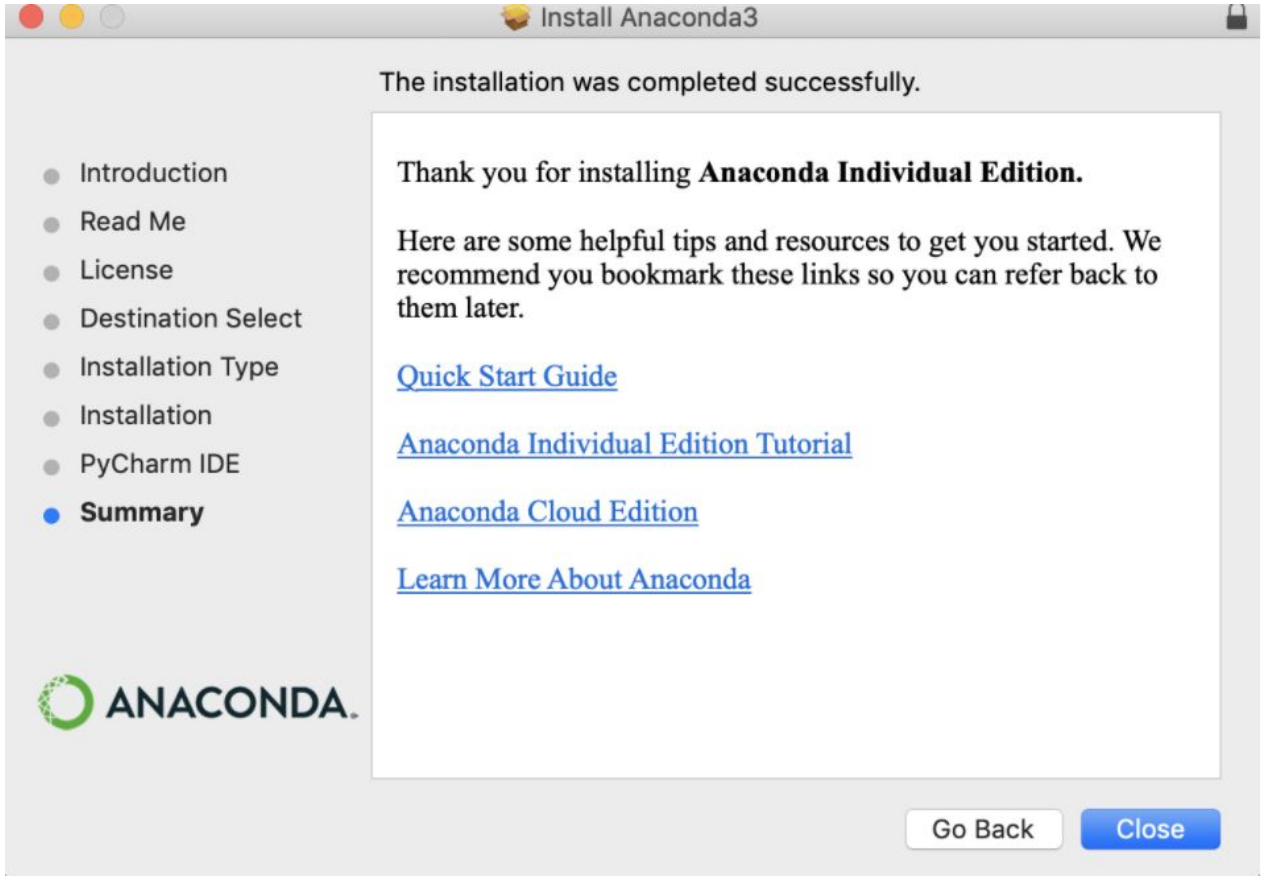
Installing Anaconda

- https://www.anaconda.com/distribution/#download-section
- Select your OS
- Select the 64-bit graphical installer for Python 3.7
  - If you already have the 2.7 version installed, you can keep it installed, but be wary that this tutorial sequence is designed for the 3.7 version
- The rest of the guide will contain screenshots from the MacOS and Windows Installation Guides. If you have any issues, please let me or one of the other leadership members know

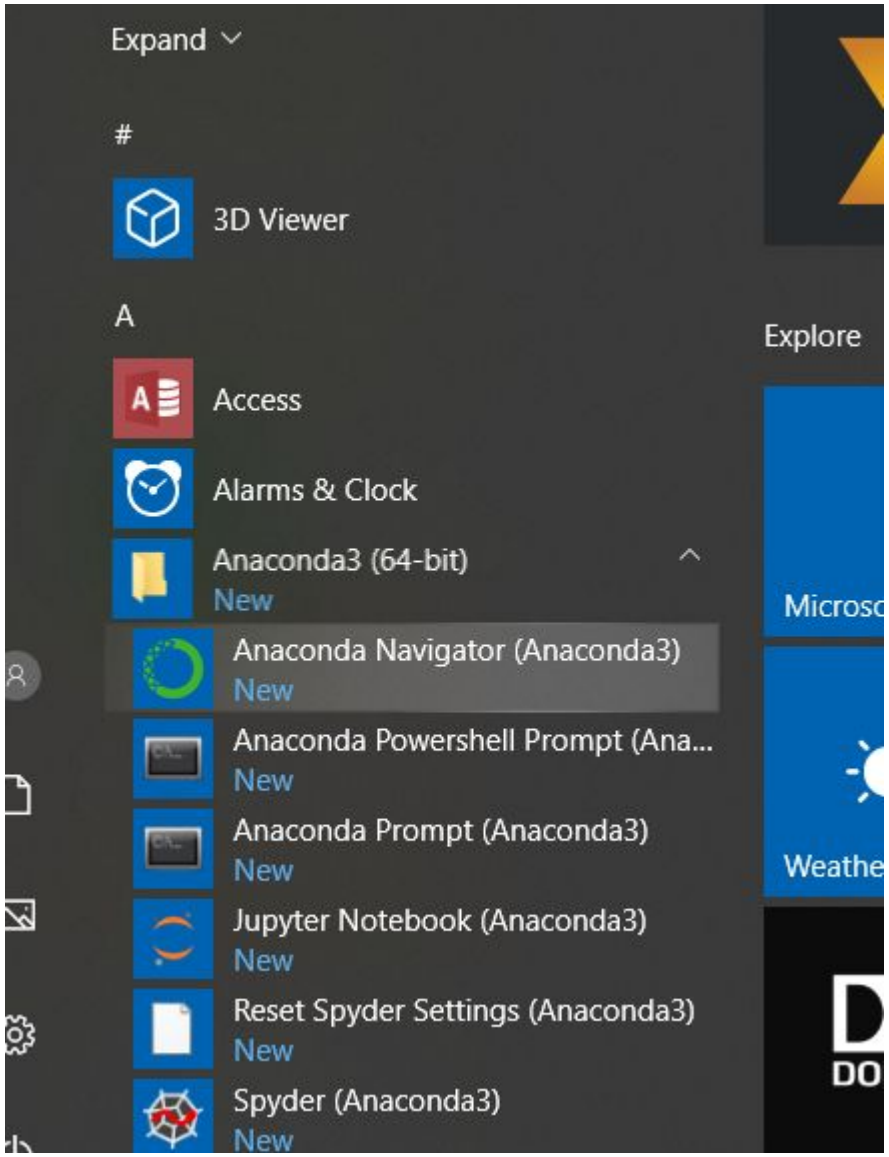

Anaconda3 2019.07 (64-bit) Setup
ANACONDA
Select Installation Type
Please select the type of installation you would like to perform for Anaconda3 2019.07 (64-bit).
Install for:
Just Me (recommended)
All Users (requires admin privileges)
Anaconda, Inc.
< Back
Next >
Cancel


Install Anaconda3
Standard Install on "Macintosh HD"
Introduction
Read Me
License
Destination Select
Installation Type
Installation
PyCharm IDE
Summary
This will take 463.8 MB of space on your computer.
Click Install to perform a standard installation of this software on the disk "Macintosh HD".
ANACONDA.
Change Install Location...
Customize
Go Back
Install

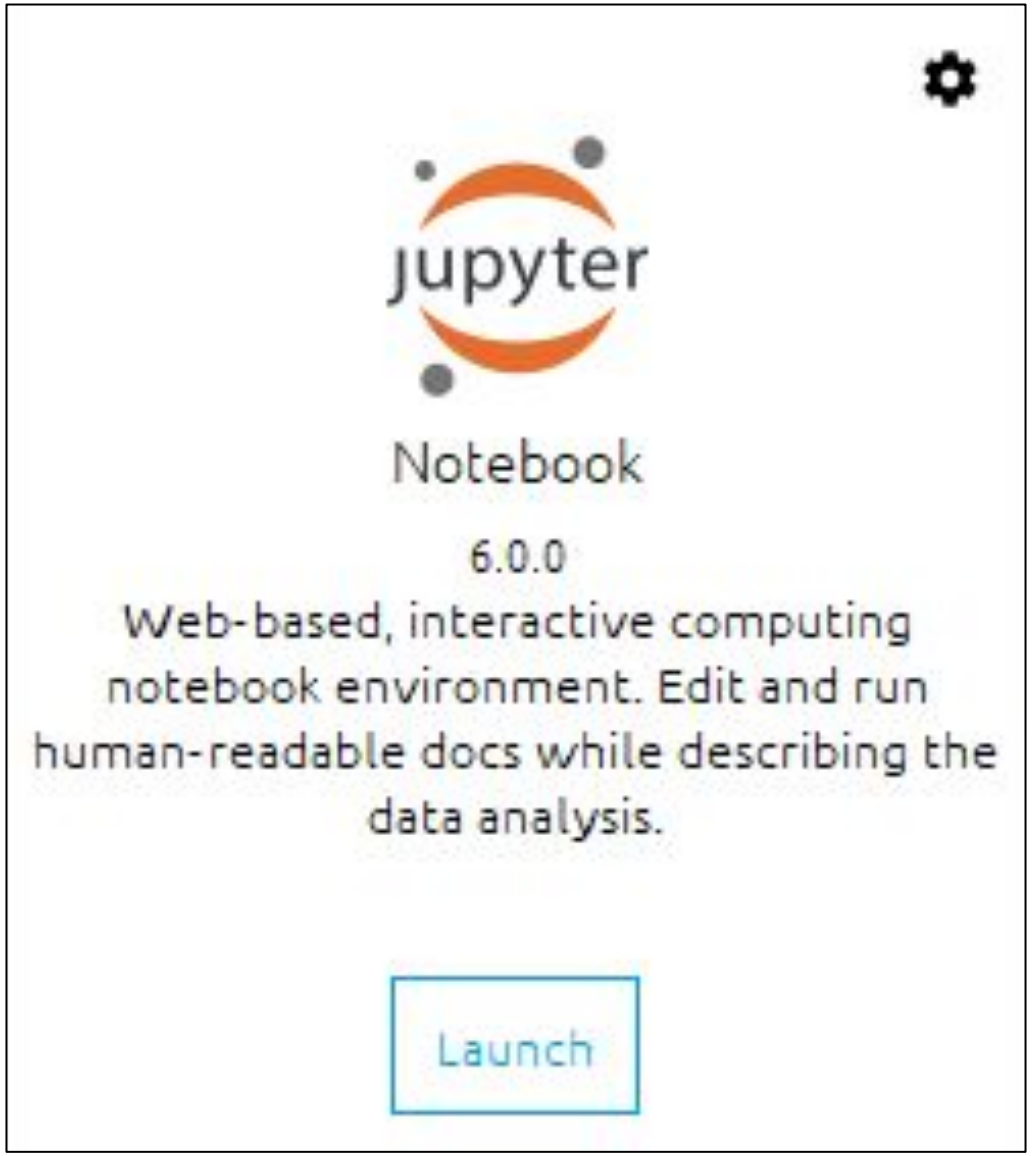

Anaconda3 2019.07 (64-bit) Setup
ANACONDA
Advanced Installation Options
Customize how Anaconda integrates with Windows
Advanced Options
Add Anaconda to my PATH environment variable
Not recommended. Instead, open Anaconda with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.
Register Anaconda as my default Python 3.7
This will allow other programs, such as Python Tools for Visual Studio PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.7 on the system.
Anaconda, Inc.
< Back
Install
Cancel

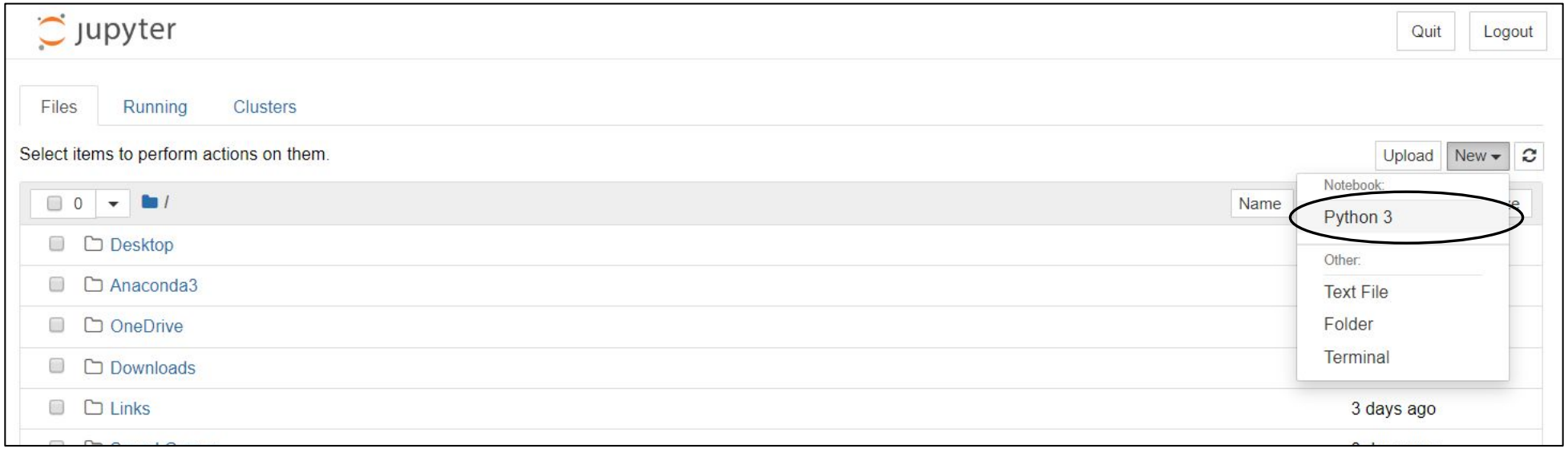

Install Anaconda3
The installation was completed successfully.
Introduction
Read Me
License
Destination Select
Installation Type
Installation
PyCharm IDE
Summary
ANACONDA.
Thank you for installing Anaconda Individual Edition.
Here are some helpful tips and resources to get you started. We recommend you bookmark these links so you can refer back to them later.
Quick Start Guide
Anaconda Individual Edition Tutorial
Anaconda Cloud Edition
Learn More About Anaconda
Go Back
Close

Questions about the club?



Command + SPACE


jupyter
Notebook
6.0.0
Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.
Launch


jupyter
Quit
Logout
Files
Running
Clusters
Select items to perform actions on them.
Upload
New
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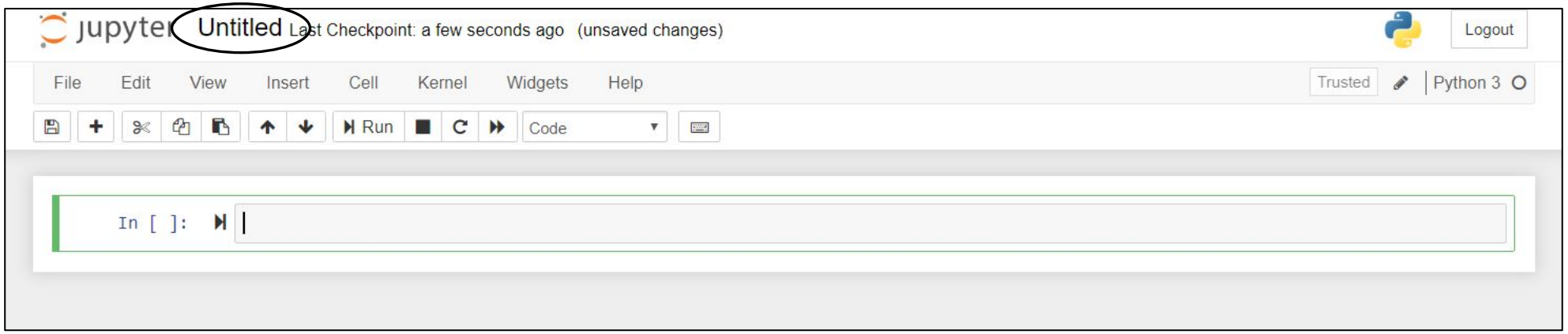
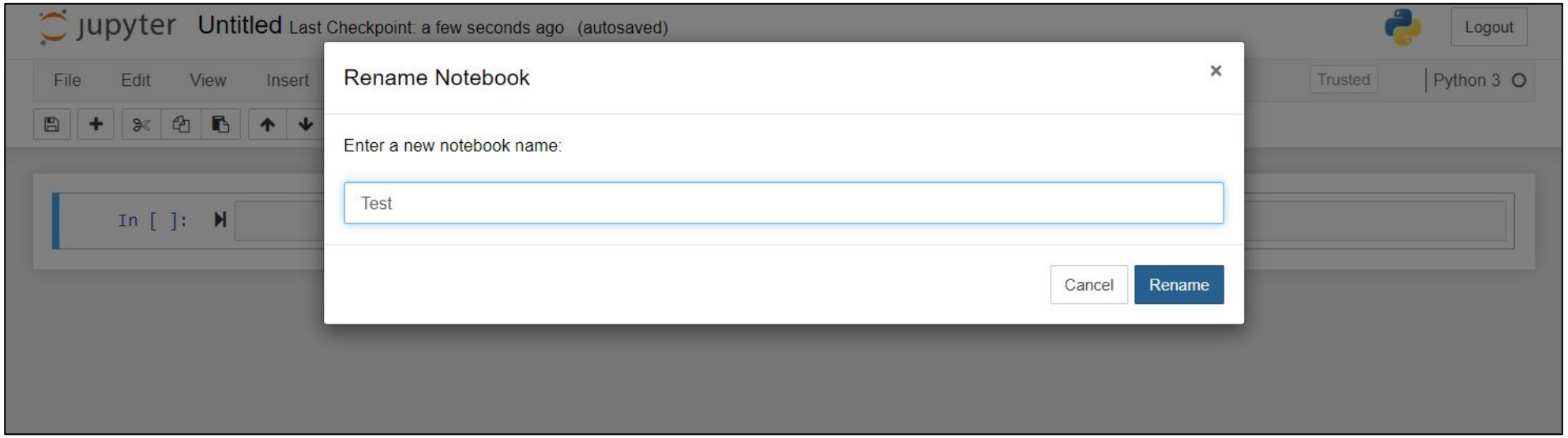
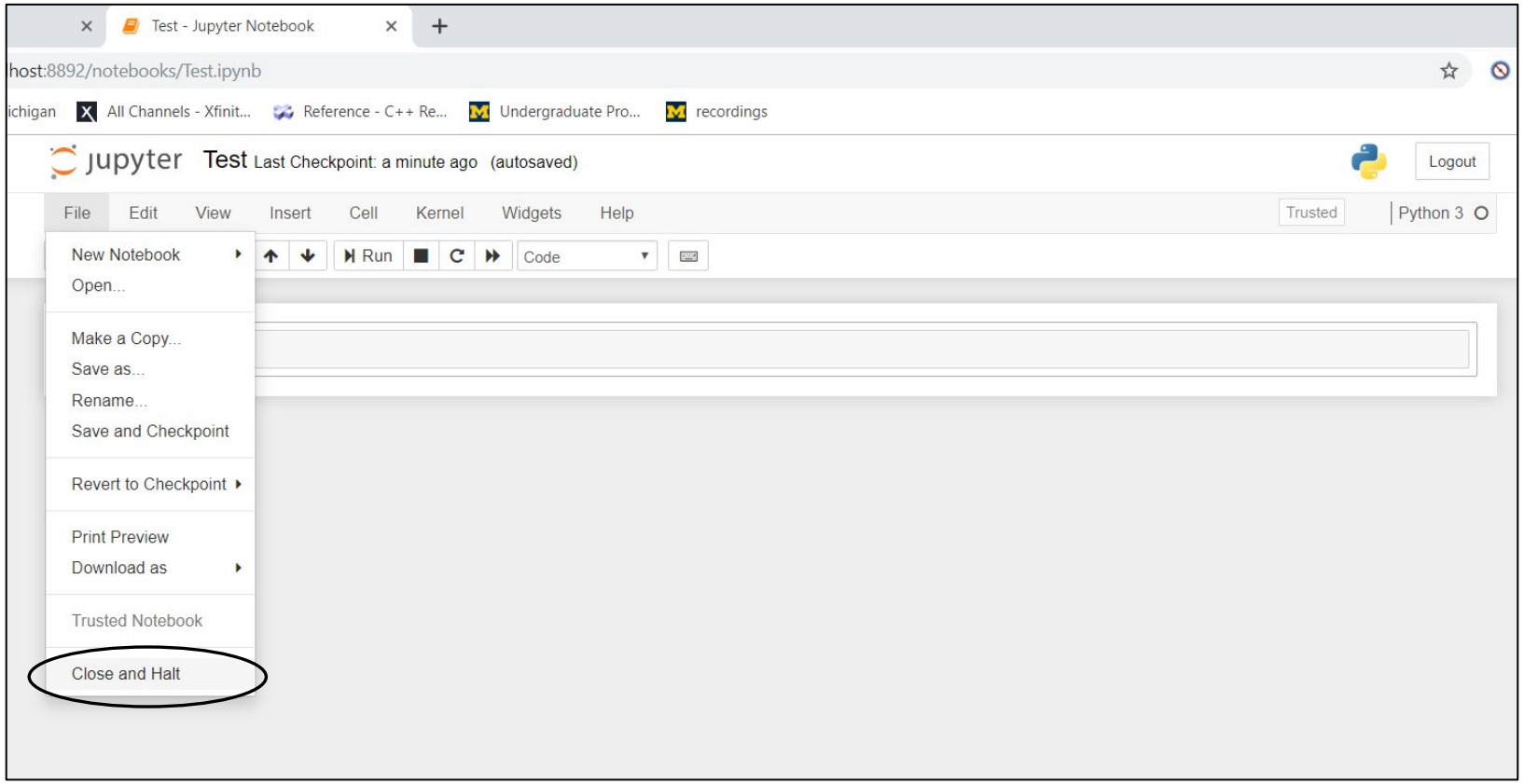
/
Name
Notebook:
Python 3
Other:
Text File
Folder
Terminal
Desktop
Anaconda3
OneDrive
Downloads
Links
3 days ago


jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3
Run
Code
In [ ]:


jupyter Untitled Last Checkpoint: a few seconds ago (autosaved)
Logout
File Edit View Insert
Trusted
Python 3
In [ ]:
Rename Notebook
Enter a new notebook name:
Test
Cancel
Rename


Test - Jupyter Notebook
host:8892/notebooks/Test.ipynb
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All Channels - Xfinit...
Reference - C++ Re...
Undergraduate Pro...
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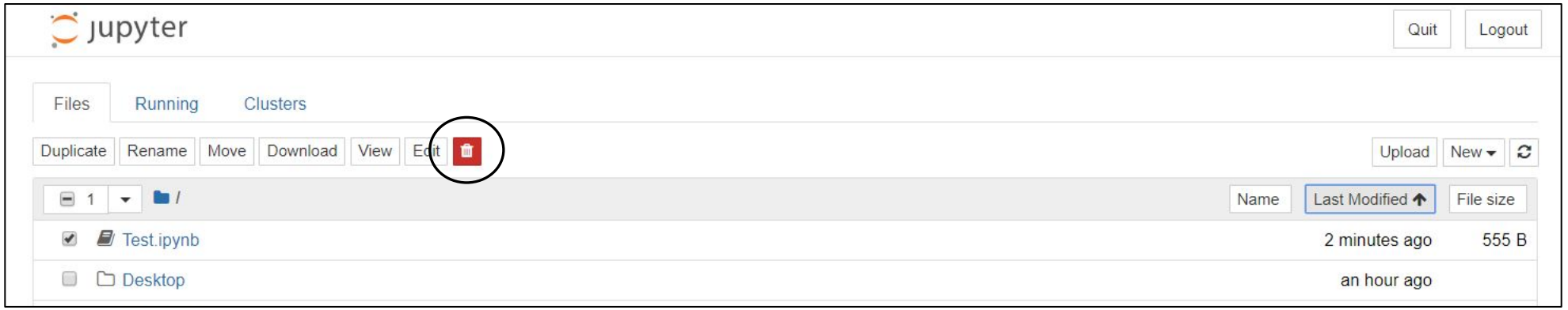
jupyter
Test
Last Checkpoint: a minute ago (autosaved)
Logout
File
Edit
View
Insert
Cell
Kernel
Widgets
Help
Trusted
Python 3
New Notebook
Open...
Make a Copy...
Save as...
Rename...
Save and Checkpoint
Revert to Checkpoint
Print Preview
Download as
Trusted Notebook
Close and Halt
Run
Code


jupyter
Quit
Logout
Files
Running
Clusters
Duplicate
Rename
Move
Download
View
Edit
Upload
New
1
/
Name
Last Modified
File size
Test.ipynb
2 minutes ago
555 B
Desktop
an hour ago

More on Jupyter Notebooks Next Week…

Why You Should Set Up a GitHub Account

- GitHub is a free code-sharing platform that allows for multiple collaborators and version control using Git
- GitHub is a great way to showcase work that you've already done and will do in the future
- Everyone who codes should know how Git works – you'll probably use it (or something similar) some day
- Great skill to have on your resume
- It's fast and easy to set up
- They have a cool logo (Octocat)

Setting Up Your Account

- Sign up at https://github.com/
- I would advise against using your school email
  - You can change the account email at any time
- Select the “Free” tier membership

Setting Up Your Command Line (Mac)

1. Install Brew (skip to step 4 if this is already done)

   /usr/bin/ruby -e "$(curl –fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

2. Hit Return (or escape to cancel)
3. Enter your system password
4. Install git

   brew install git

   git config --global user.name “First Last”

   git config --global user.email “your email”

Setting Up Your Command Line (Windows)

EECS 183 has you covered! Follow the guidelines you see on this walkthrough:

https://eecs183.org/docs/git_on_windows/

Configurate your environment:

git config --global user.name “First Last”

git config --global user.email “your email”

Congrats on Finishing Your First Module!