

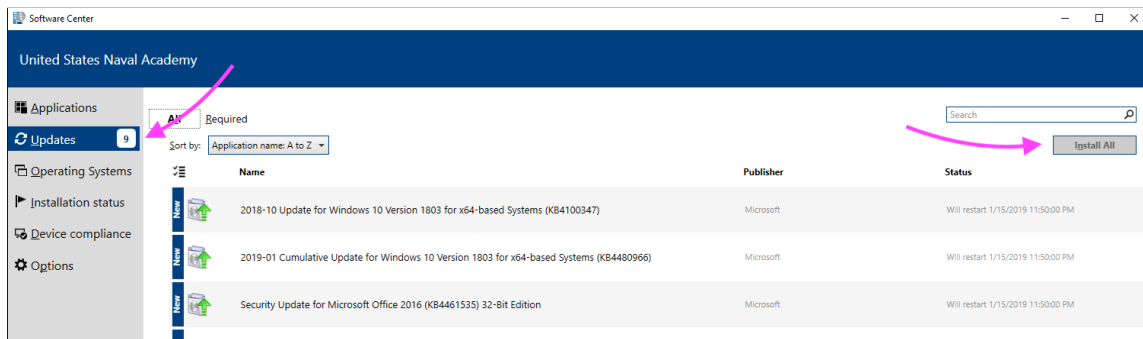


Getting Started with Anaconda and JupyterLab

Last updated: January 12, 2022

0 Getting your computer ready

- First, let's make sure your computer has all the required software updates, in order to minimize the potential for issues when installing Anaconda.
- To get to Software Center, first click on  in the bottom left corner of your screen, and type software. That should bring up a link to the Software Center app. Click on this link.
- Once Software Center is open, go to the Updates tab and click  at the top right corner to install all required updates.



- Once the updates have finished, restart your computer.
- **Optional but strongly suggested.** Make Google Chrome your default web browser, if it is not already. Follow the instructions for Windows 10 at the link below:

<https://support.google.com/chrome/answer/95417>

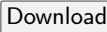
1 Installing Anaconda

- In this course, we will use the Anaconda Python distribution
- To install Anaconda, carefully follow the instructions below!
 - These instructions are based on the documentation found here:

<https://docs.anaconda.com/anaconda/install/windows/>

Step 1. Download the Anaconda installer. Go to the following URL:

<https://www.anaconda.com/products/individual>

You should see a  button for Windows, Python 3.9, 64-Bit Graphical Installer. Click the button to download the installer to your computer.



Step 2. Once the installer is downloaded, find it. Double-click on the installer to launch.

Step 3. You should see a Welcome to Anaconda3 dialog box. Click **Next**.

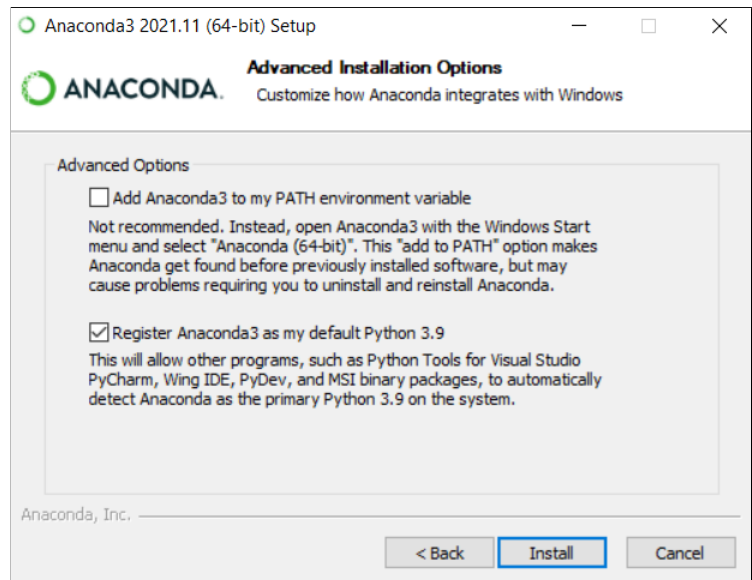
Step 4. Read the licensing terms and click **I Agree**.

Step 5. Select Just Me (recommended) and click **Next**.

Step 6. Leave the default destination folder as-is and click **Next**.

Step 7. You should now see the dialog box on the right.

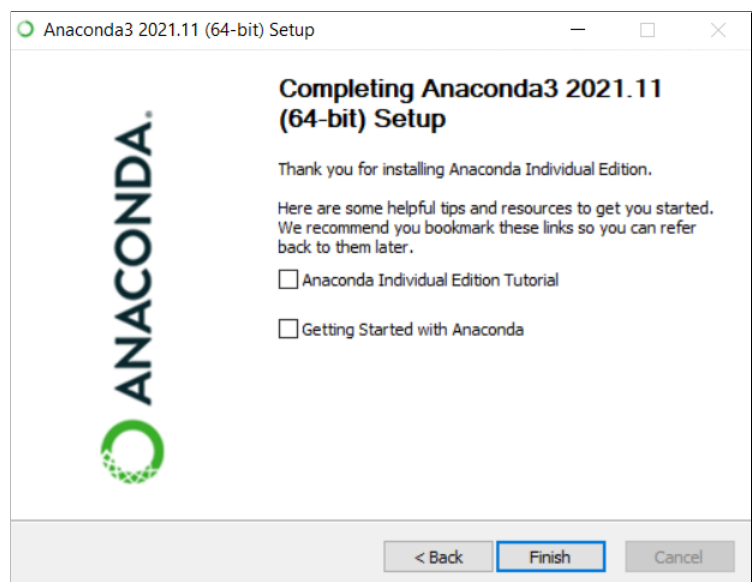
- Leave the first box unchecked: Do not add Anaconda to your system PATH environment variable. Adding Anaconda to the PATH environment variable can interfere with other software.
- Leave the second box checked: Register Anaconda as your default Python.
- Click the **Install** button.




Step 8. You should see a dialog box with a progress bar. This will take a while. When the progress bar is full, click **Next**.

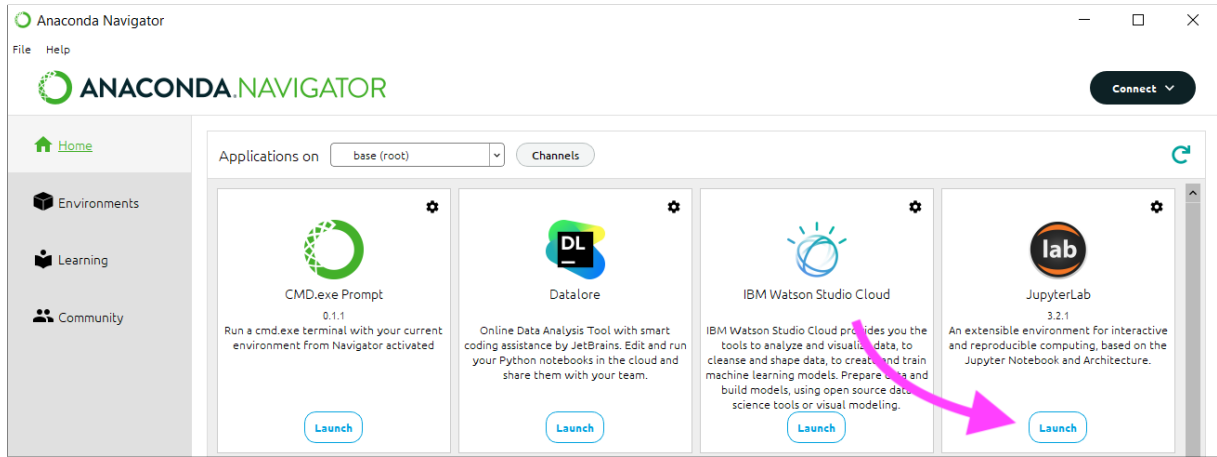
Step 9. Ignore the message about JetBrains and PyCharm and click **Next**.

Step 10. After a successful installation, you will see the dialog box shown on the right. Uncheck the two boxes and click **Finish** to complete the installation.

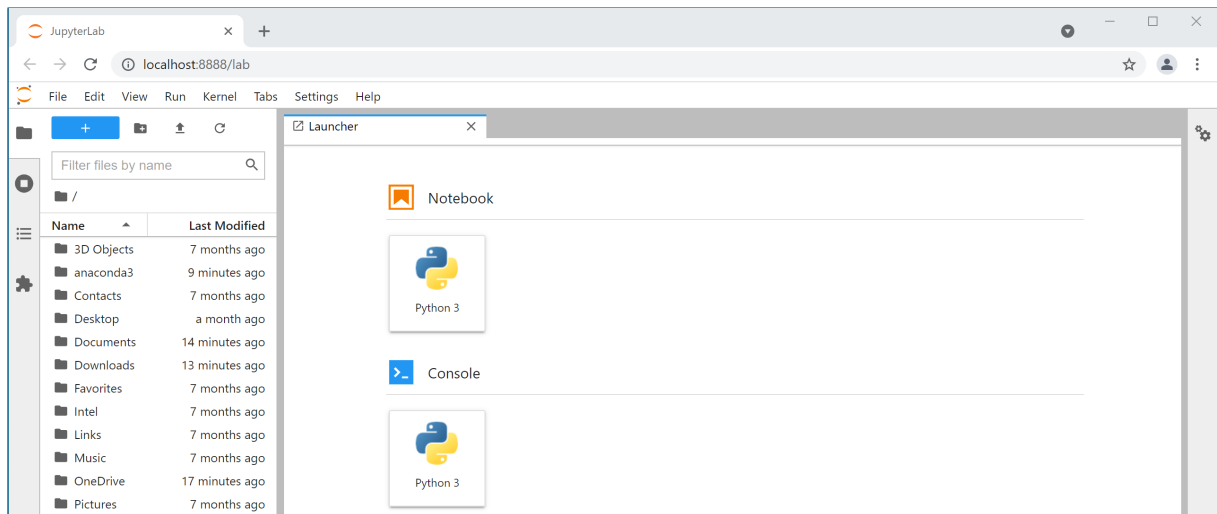


2 Launching JupyterLab

- We will be writing Python code in **JupyterLab**. Let's open JupyterLab.
- First, click on . Then click on **Anaconda3 (64-bit) >> Anaconda Navigator (Anaconda3)**. A window should appear with a selection of apps that you can launch. Click the **Launch** button for JupyterLab.



- Your default web browser should open with the JupyterLab interface. It should look like this:



3 Downloading and opening Jupyter notebooks in zip files

- The course website is here:

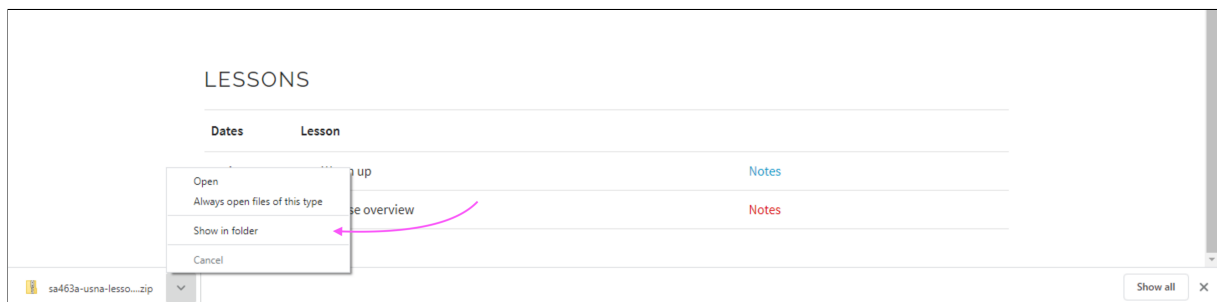
<https://www.usna.edu/users/math/uhan/sa367/>

- You will regularly need to download Jupyter notebooks in zip files from the course website and open them in JupyterLab. Follow these instructions to download a lesson from the course website. These instructions assume you're using Google Chrome as your web browser.

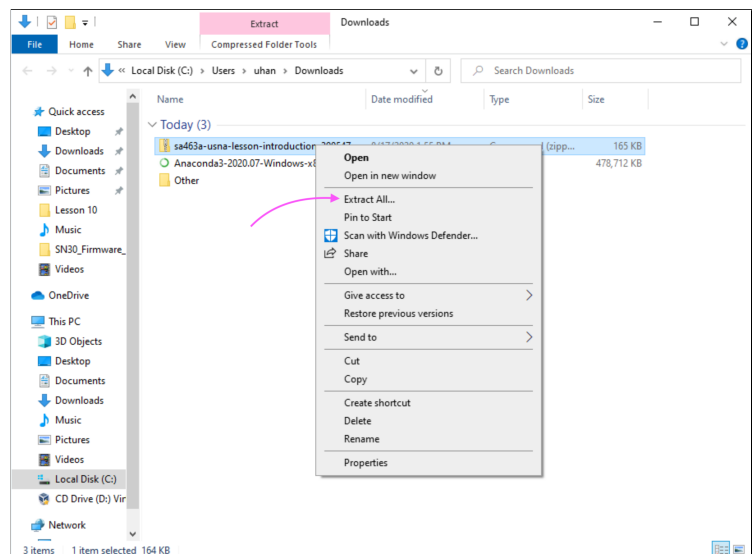
Step 1. Start by clicking the link for the Jupyter notebook you want to use. You'll see the file download appear at the bottom of the window.



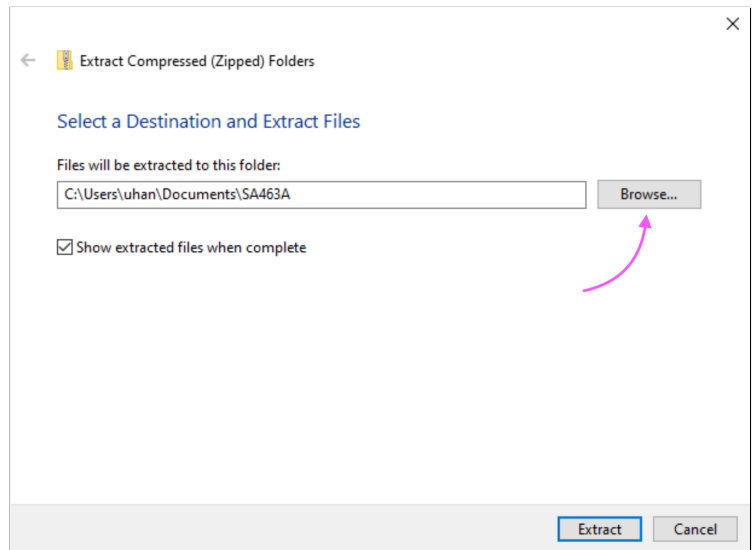
Step 2. Click on the arrow next to the file download, and select **Show in Folder**.



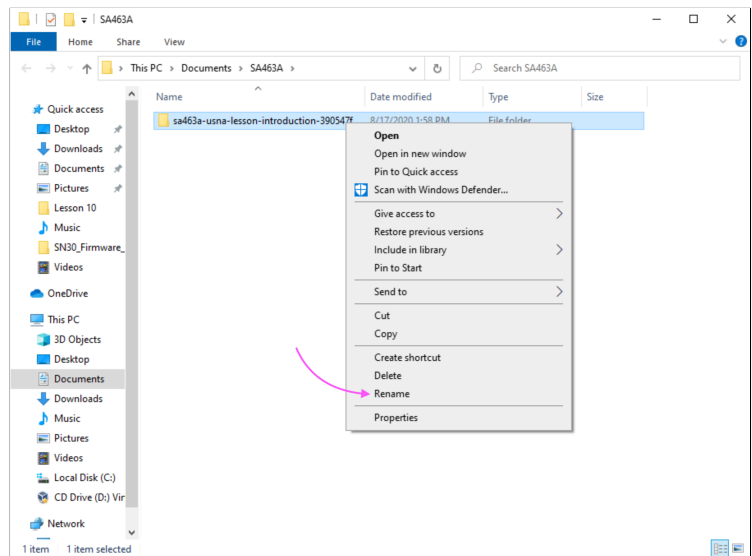
Step 3. An Explorer window should appear, highlighting the file you just downloaded. Do not double-click it. Instead, right-click the file, and select **Extract All...**



Step 4. A dialog box should appear, asking where you want to extract the contents of this file. Click on **Browse** and select where you want to put a new folder with the contents of the file. Then, click **Extract**.



Step 5. Once the extraction is done, an Explorer window should appear, showing you the newly created folder with the contents of the file. Rename the folder something easy to read.



Step 6. In JupyterLab, navigate the file browser to the location of this newly created folder.