

Introduction to Python

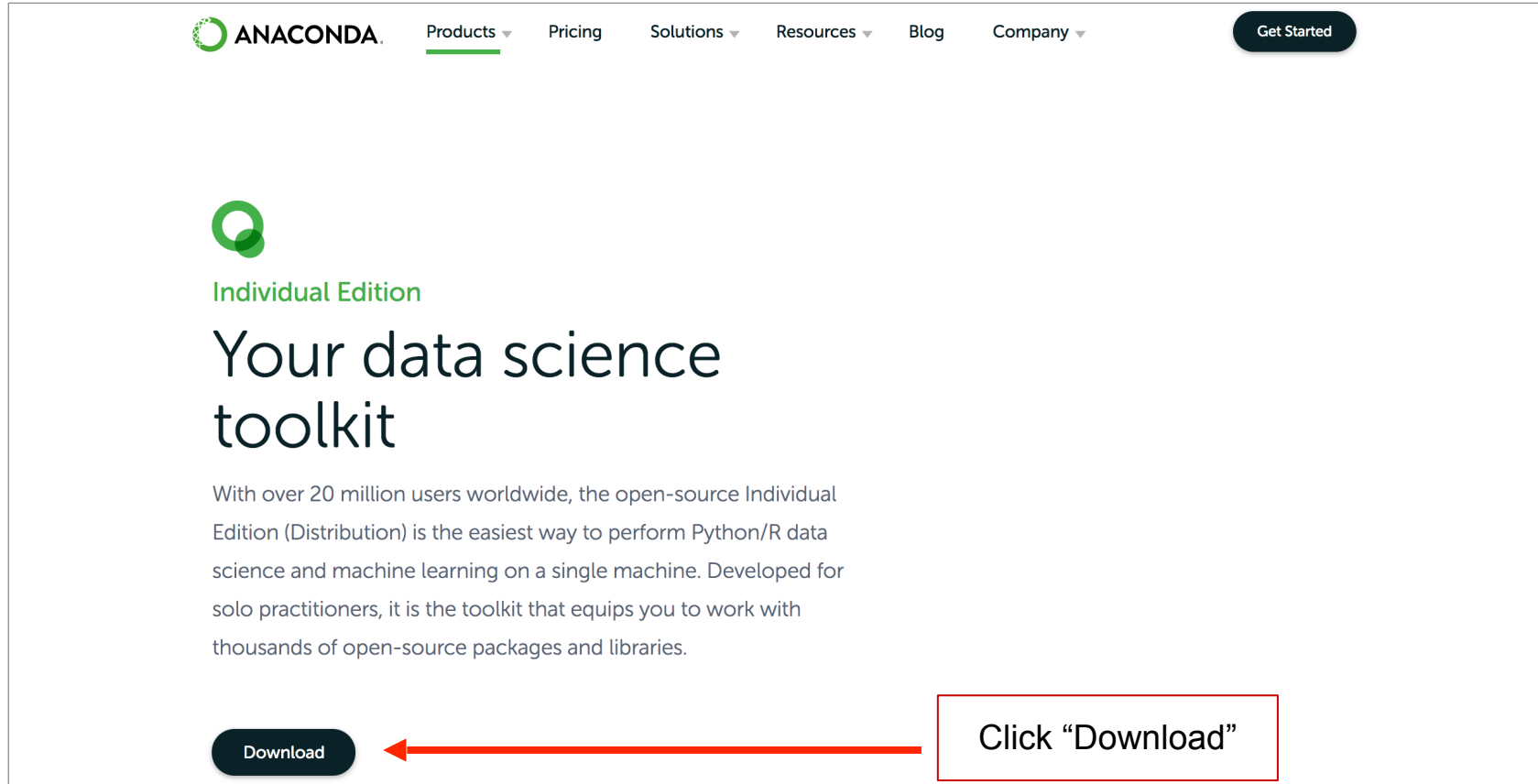
ICPSR Summer Program 2022

Installation Instructions for Python3 & Jupyter Notebook

About the Installation Instructions


- This document details the steps for installing Python 3 and Jupyter Notebook on Mac and Windows systems. We will write all the Python code in Jupyter Notebook in this course.
- I **strongly recommend** that you finish installation before the first lecture. Installation may take between 30-60 minutes and would be difficult to do during the lecture.

1. Download Anaconda - <https://www.anaconda.com/products/individual>




The screenshot shows the Anaconda Individual Edition product page. At the top is a navigation bar with the Anaconda logo, a 'Products' dropdown menu (highlighted with a green underline), and links for 'Pricing', 'Solutions', 'Resources', 'Blog', and 'Company'. A 'Get Started' button is in the top right. The main content area features the Anaconda logo, the text 'Individual Edition', and the heading 'Your data science toolkit'. Below this is a paragraph describing the toolkit. At the bottom left is a 'Download' button. A red arrow points from a red-bordered box containing the text 'Click "Download"' to the 'Download' button.

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Individual Edition

Your data science toolkit

With over 20 million users worldwide, the open-source Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for solo practitioners, it is the toolkit that equips you to work with thousands of open-source packages and libraries.

[Download](#)  Click "Download"

2. Choose the Graphical Installer for Python 3.9 for older macs

Anaconda Installers

Windows 

Python 3.9

64-Bit Graphical Installer (594 MB)

32-Bit Graphical Installer (488 MB)

MacOS 

Python 3.9

64-Bit Graphical Installer (591 MB)

64-Bit Command Line Installer (584 MB)

64-Bit (M1) Graphical Installer (316 MB)

64-Bit (M1) Command Line Installer (305 MB)

Linux 

Python 3.9

64-Bit (x86) Installer (659 MB)

64-Bit (Power8 and Power9) Installer (367 MB)

64-Bit (AWS Graviton2 / ARM64) Installer (568 MB)

64-bit (Linux on IBM Z & LinuxONE) Installer (280 MB)

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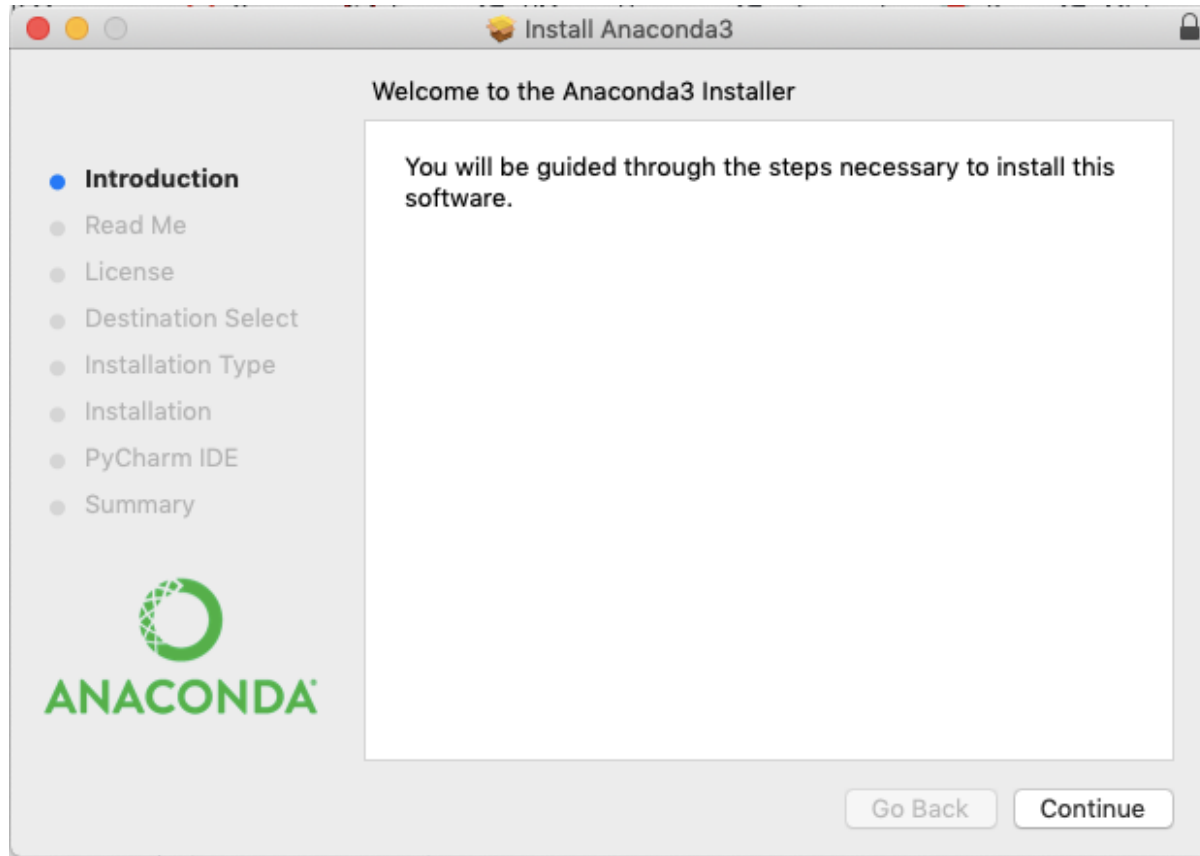
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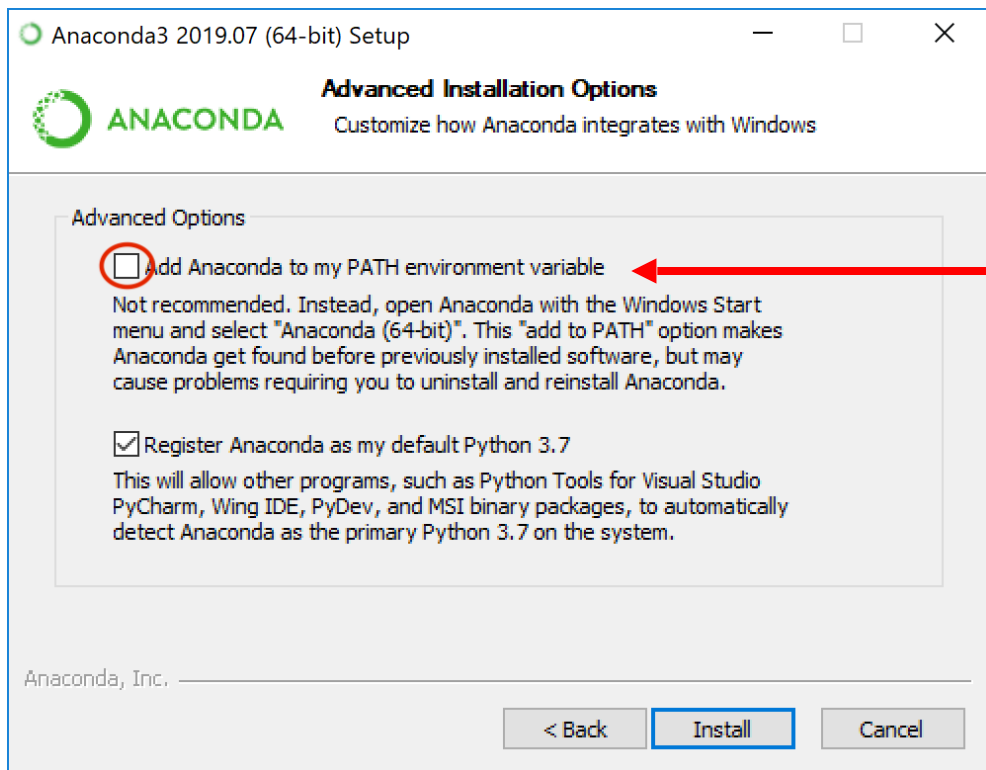
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3. For Mac Users: Run the package to install and follow instructions



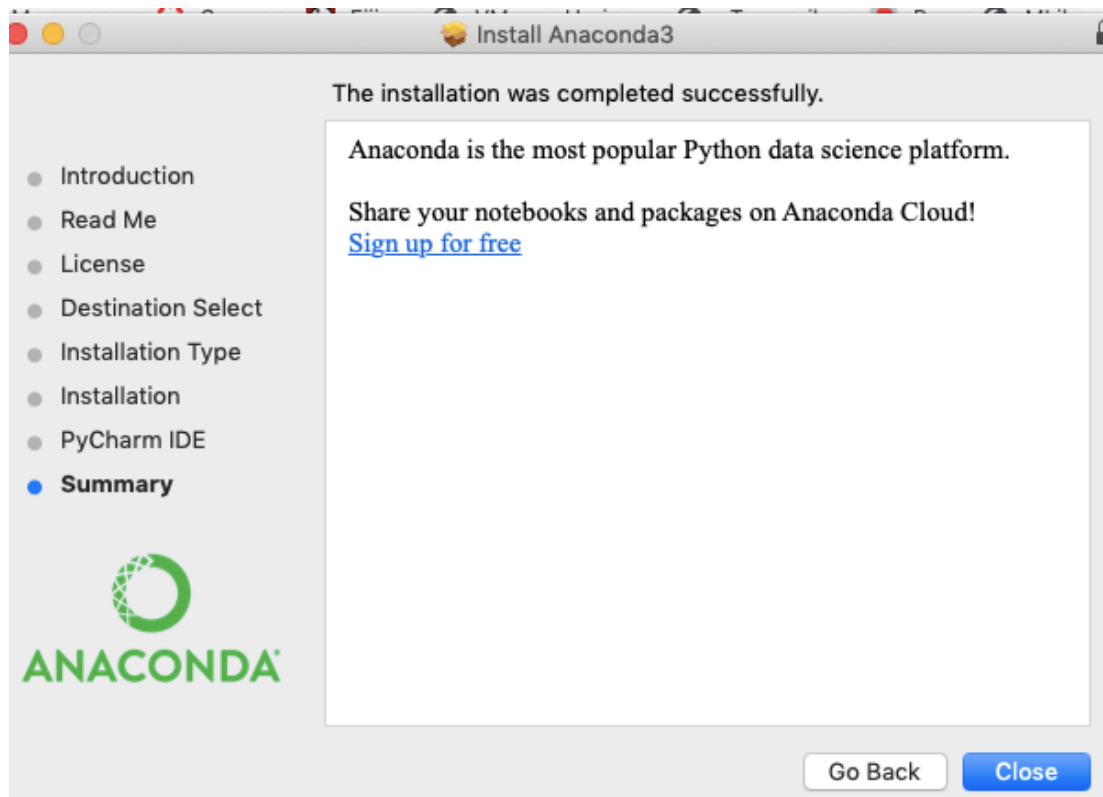
3. For Windows Users: Check Note Below!



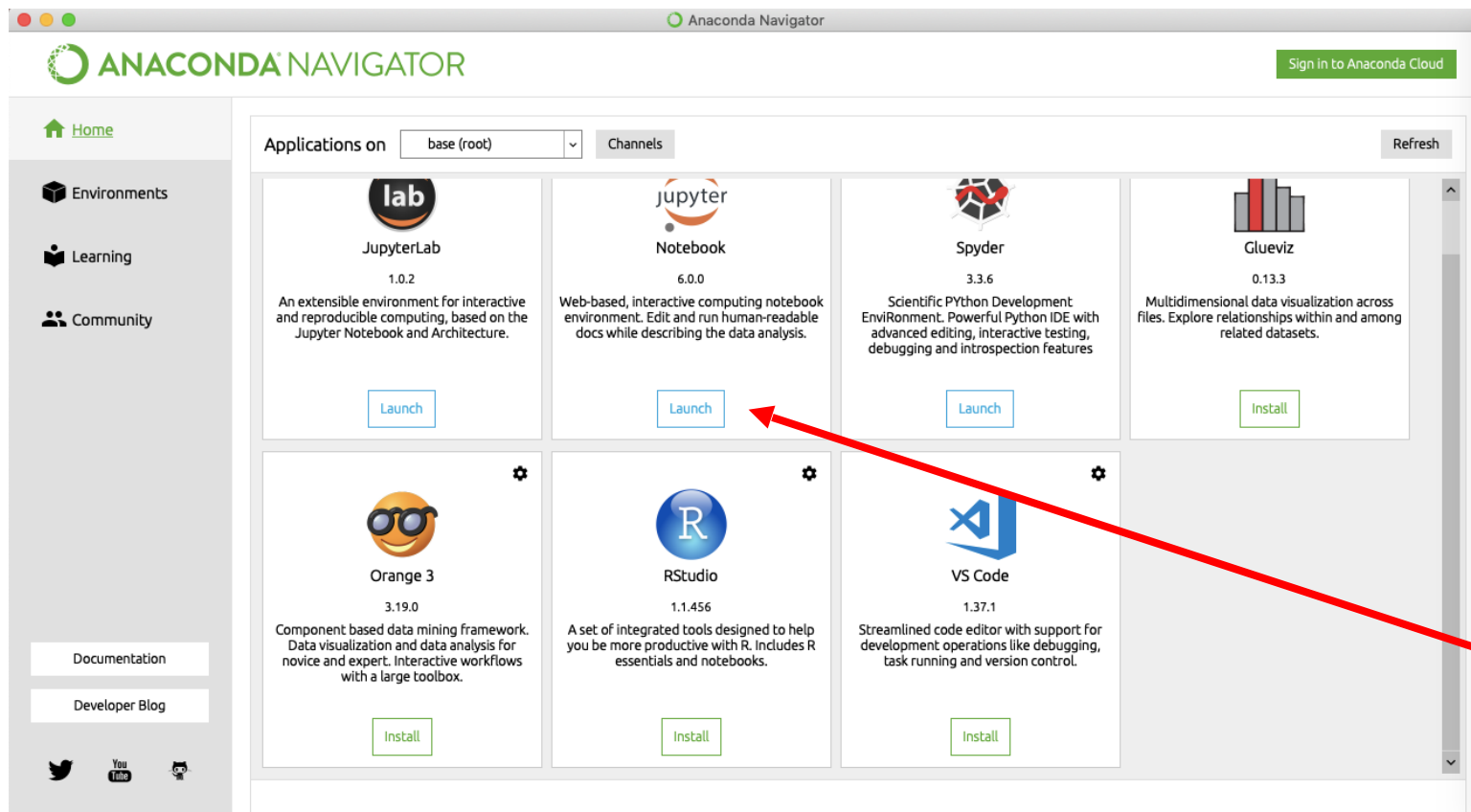
If you are installing Anaconda on Windows, **please check the box marked "Add Anaconda to my PATH environment variable"**.

Follow other instructions as mentioned.

4. Finish installation



5. Open Anaconda Navigator and Launch Jupyter Notebook



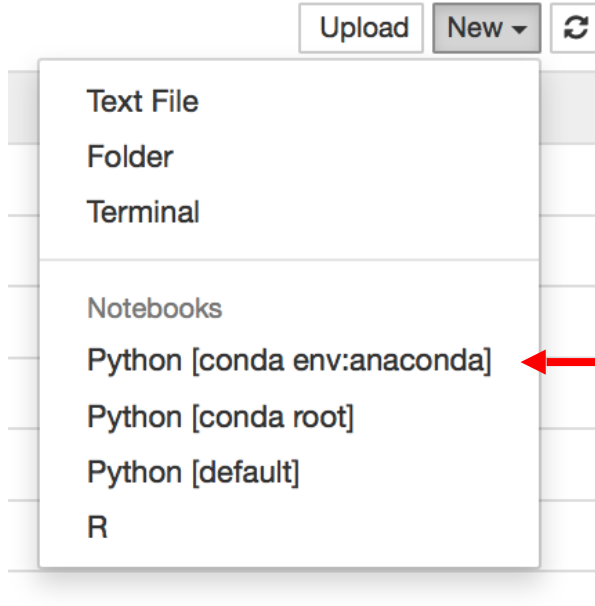
Click
"Launch"

5. Create your first Jupyter Notebook



Clicking the "Launch" button in the Anaconda Navigator will open the Jupyter Notebook dashboard in your computer's default web-browser. Click the "New" button to create a new notebook

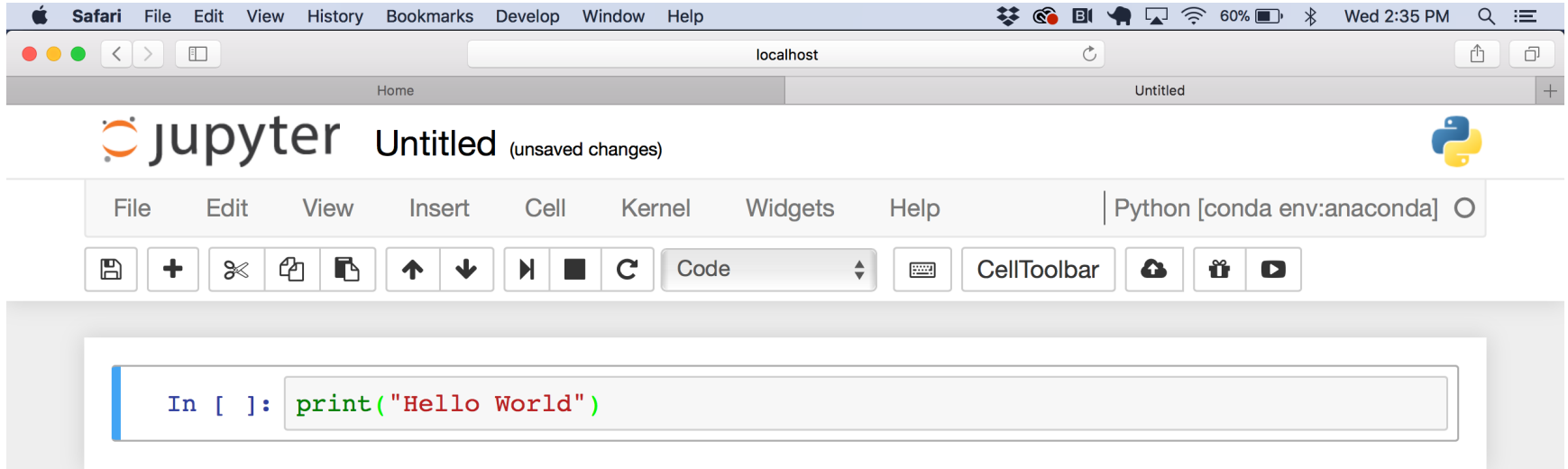
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Select "Python [conda env:anaconda]" to create a Jupyter Notebook.

This will launch a new tab in the browser, next to the Jupyter Notebook dashboard tab.

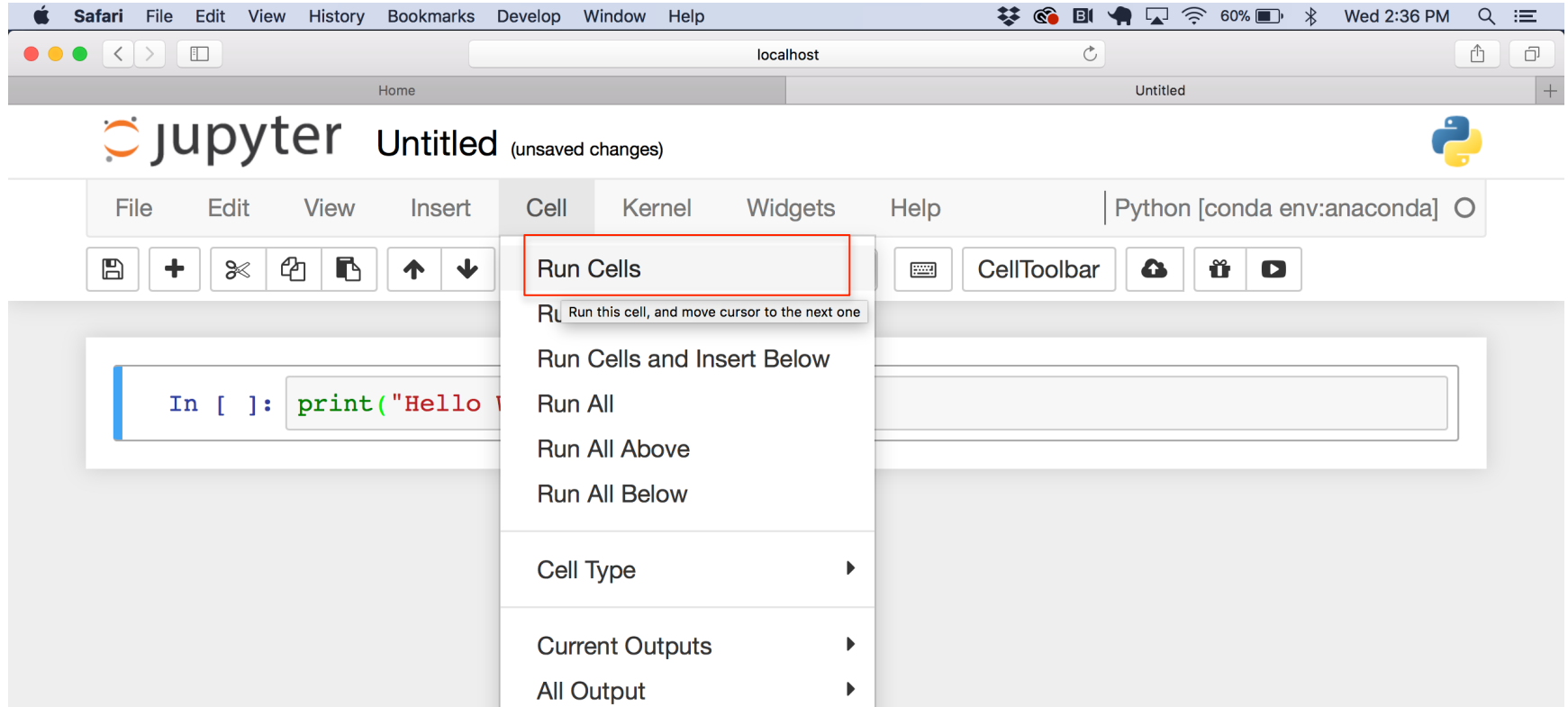
6. Write Python Code in the cell: `print("Hello World")`



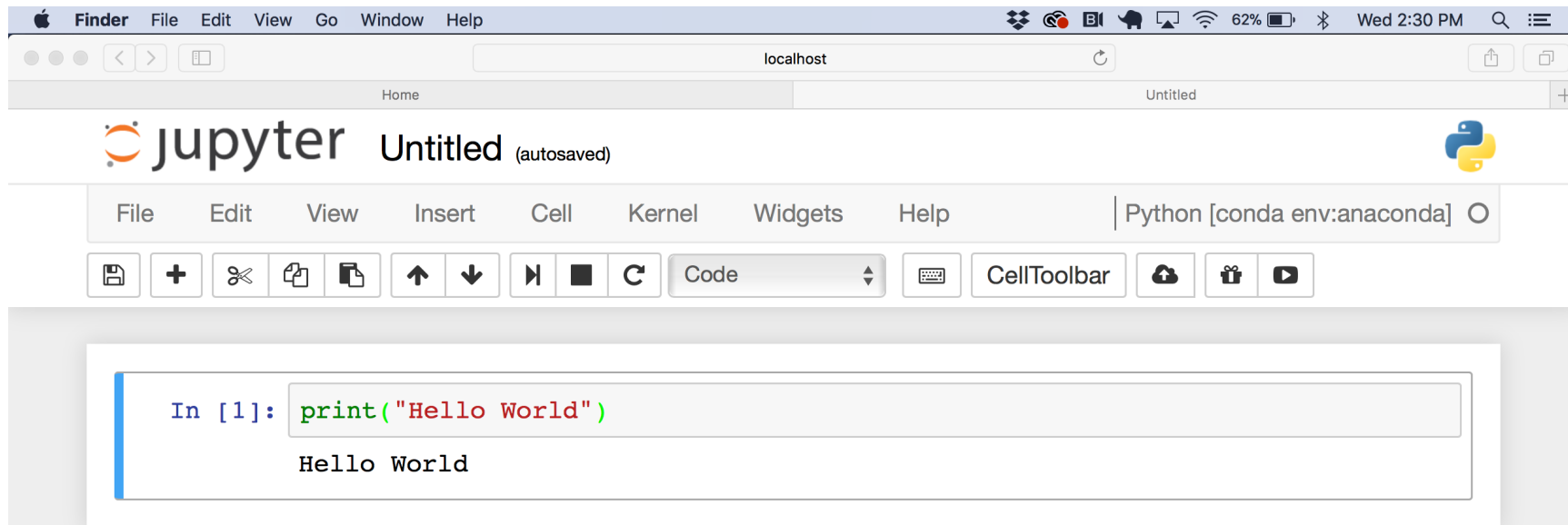
The screenshot shows a web browser window with the Jupyter Notebook interface. The browser's address bar displays 'localhost'. The Jupyter interface includes a menu bar with options like File, Edit, View, History, Bookmarks, Develop, Window, and Help. Below the menu bar is a toolbar with various icons for file operations, navigation, and execution. The main area of the notebook shows a code cell with the text 'In []: print("Hello World")'.

```
In [ ]: print("Hello World")
```

6. To run the code in the cell, click "Cell" in the Menu Bar. Then click "Run Cells"



If the everything was installed correctly, the cell should output Hello World as shown below



If the output is not rendered, **do not panic!** Leave a comment on Canvas / email me (imendoza@umich.edu). Either way, we will fix all installation issues in the first lecture and office hours :-)

