Instructions for Windows Users

This guid will go over how to use Python and Unix tools directly in Windows via Anaconda and Cygwin

Covered Here

1. Installing Unix tools on Windows via Cygwin
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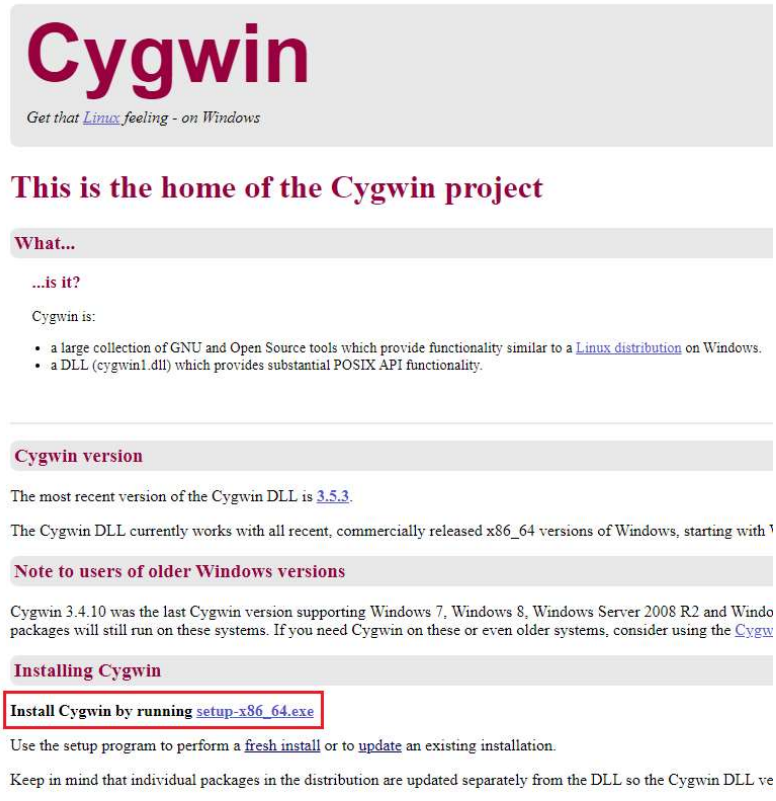
Installing Unix tools on Windows via Cygwin

Installing Git for Windows gives you convenient access to a command-line environment with common Unix tools like `grep`, `sort`, `cut`, or `curl`.

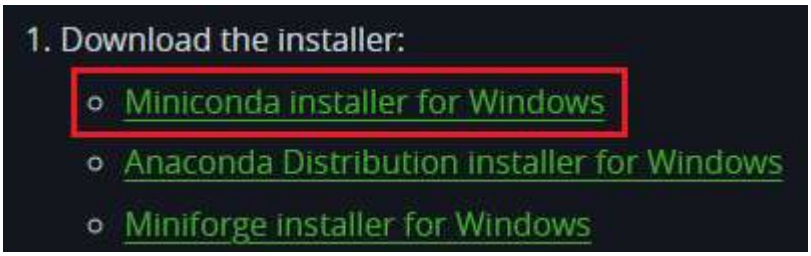
Download the latest Windows installer from: https://www.cygwin.com/

Run the installer. Choose any site when asked where to download Cygwin from. Continue through the installation process.

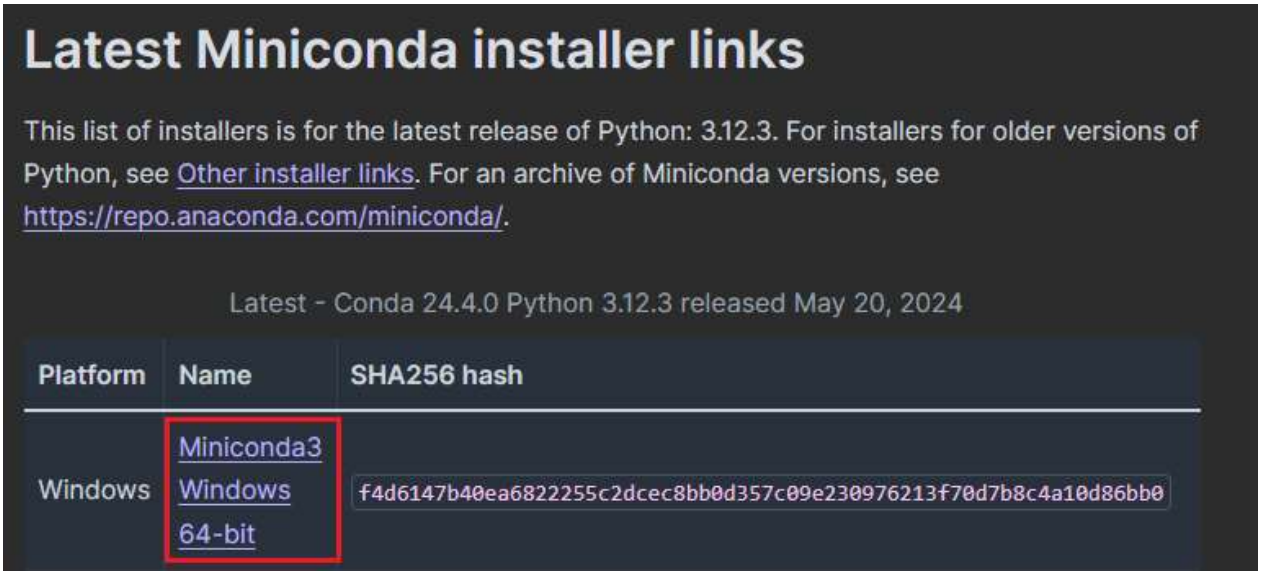


Installing Python via Anaconda

Go here (https://docs.conda.io/projects/conda/en/latest/user-guide/install/windows.html**) and click on miniconda installer for Windows.**

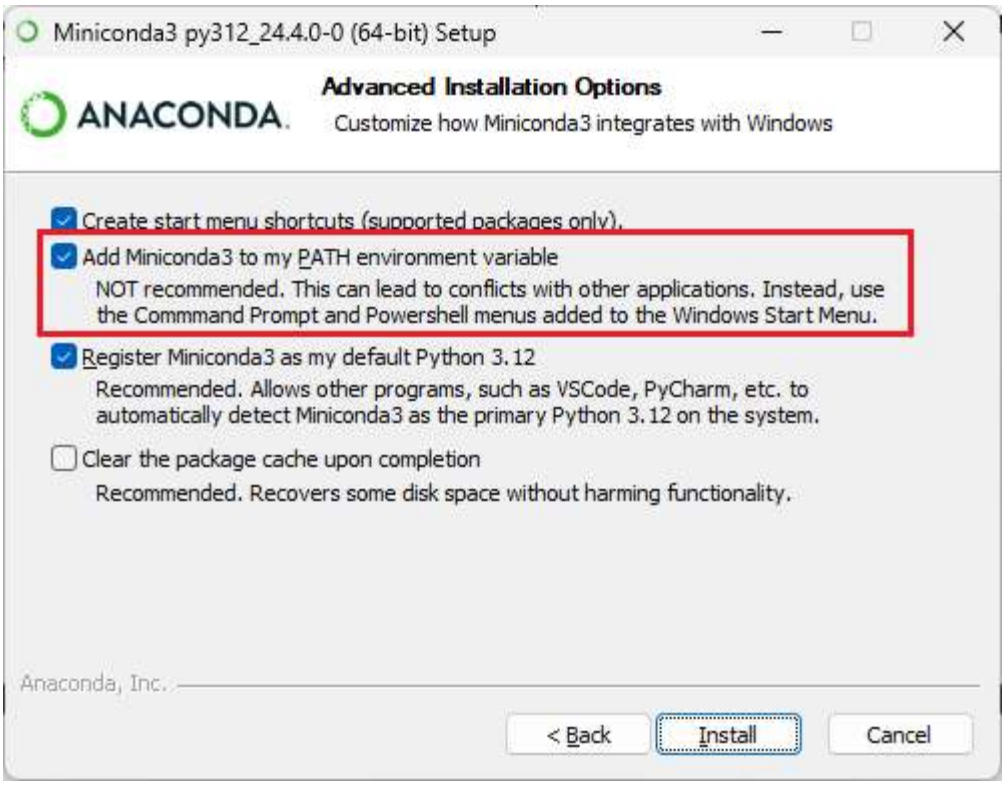


This willl take you to https://docs.anaconda.com/miniconda/**. Scroll down and click on Miniconda3 Windows 64-bit.**



Once it's downloaded, run the installer.

When you reach "Advanced installation options," make sure to check "Add Miniconda3 to my PATH environment variable

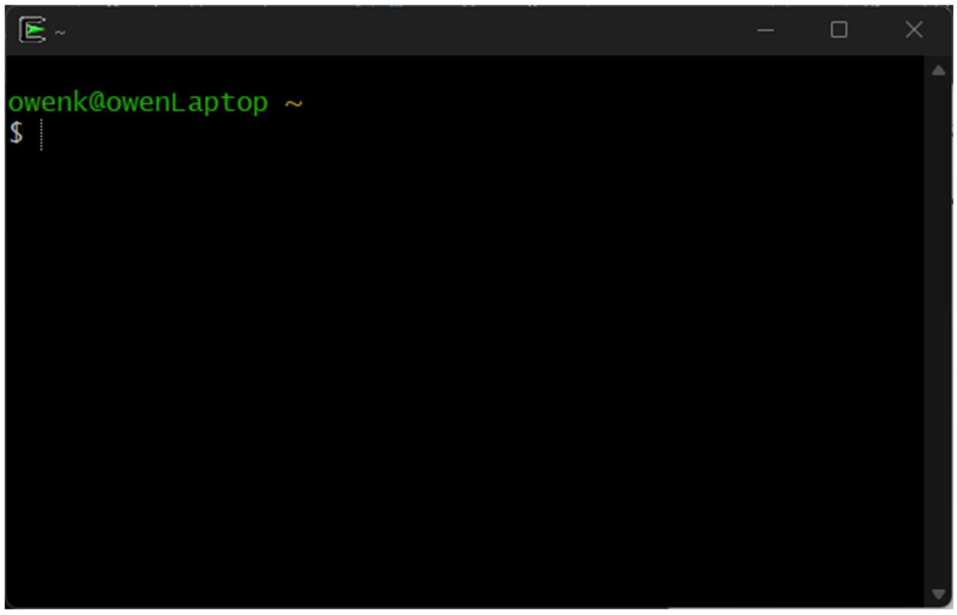


Opening a Bash Terminal (For Unix Commands)

Run Cygwin64 Terminal.

This will open a bash shell that allows you to have access to Unix tools.

We will teach you how to use Unix commands in the Bash shell to manipulate your files.

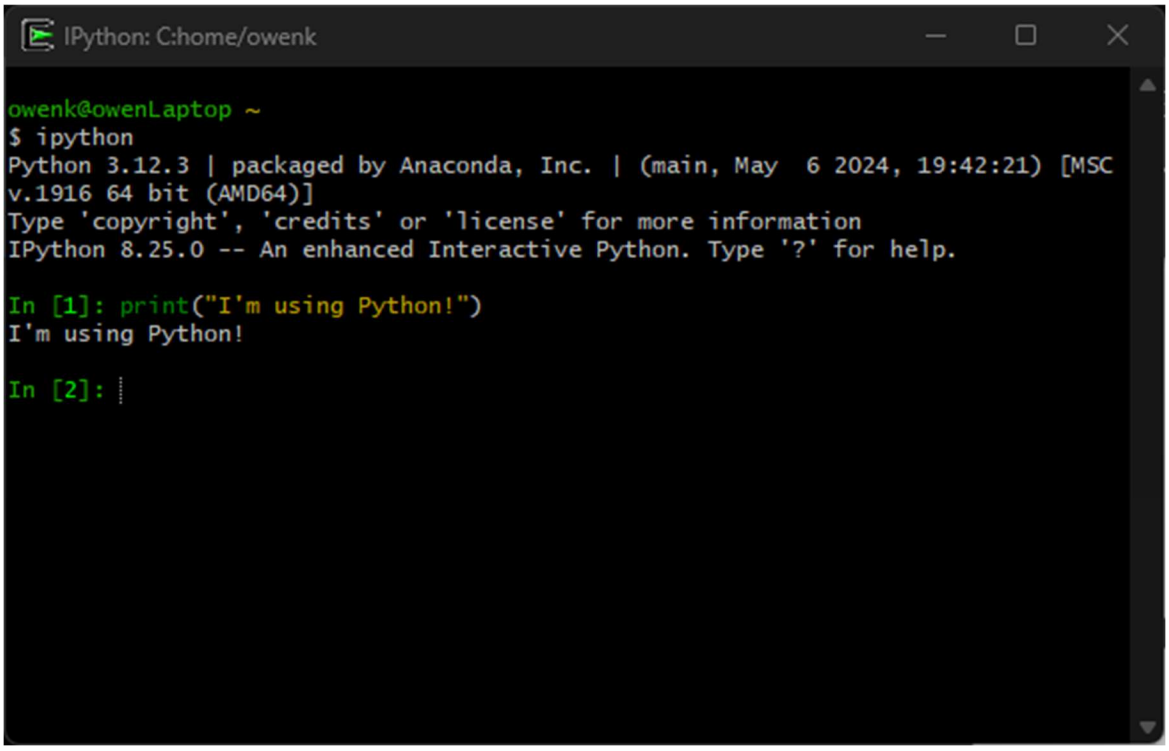


Opening a Python Interpreter

There are a few ways you can use Python. One useful method is to use the Python interpreter. This gives you the ability to enter in commands, one line at a time, to interactively explore data and run analyses. This is similar to how you might interact with MATLAB or R.

To use the Python interpreter, open up a terminal by running cygwin.

In the terminal, just type **`ipython`**, and the Python interpreter will begin.



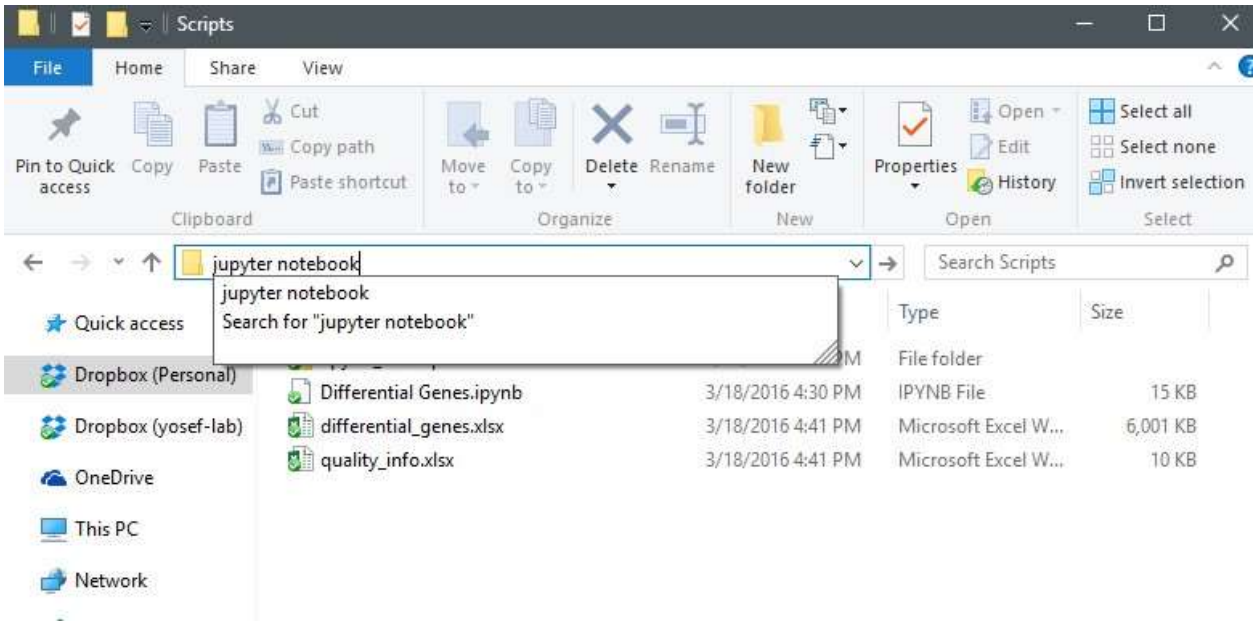
Opening Jupyter Notebooks

Jupyter Notebooks are a great tool for working with and demonstrating data analysis scripts written in Python. We'll be teaching you how to use it in the class. This document just shows how to run the program in Windows.

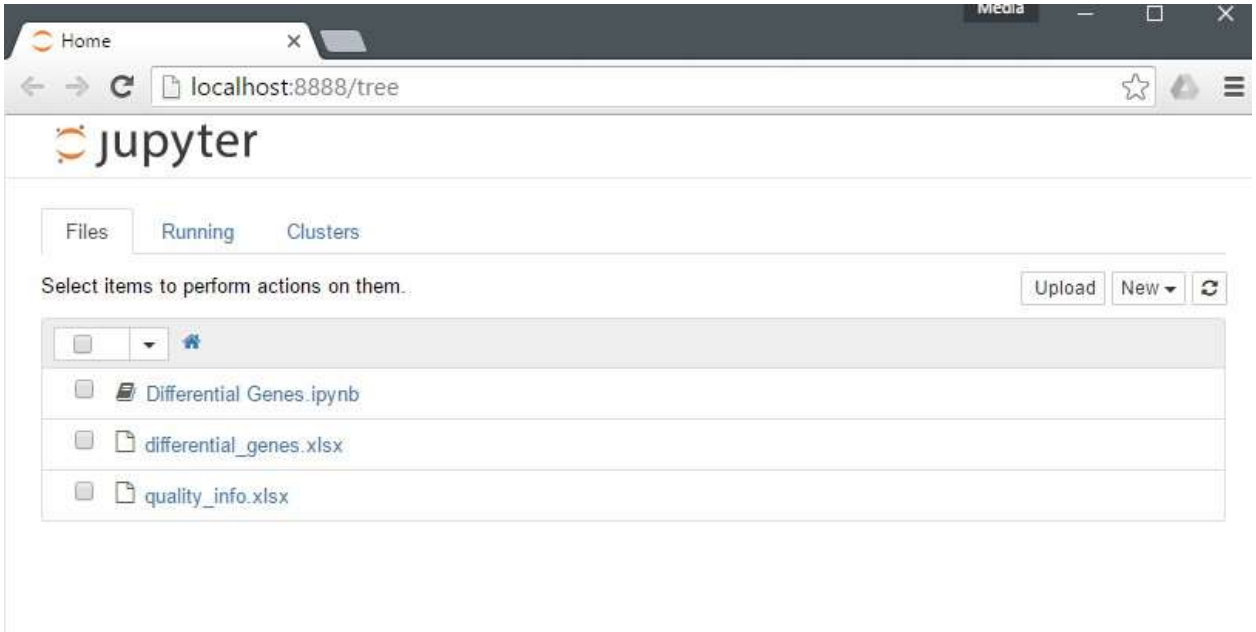
Jupyter Notebooks are saved in files with a .ipynb extension. To open them, you must run the notebook server from the folder containing the file (or from a folder higher in the hierarchy).

To run the notebook server, you can either:

- Open a terminal (from the correct folder) and type **`jupyter notebook`** and hit enter
- **Or,** as a shortcut, just type **`jupyter notebook`** in the address bar in the Windows Explorer and hit enter



Shortcut to launch Jupyter Notebooks from within a folder



The result: Jupyter Notebook launches in a new browser window