

## Step 1: Install conda

Download and install the version of conda for your operating system from <http://conda.pydata.org/miniconda.html>.

Platform	Name	SHA256 hash
Windows	Miniconda3 Windows 64-bit	1acbc2e8277ddd54a5f724896c7edee112d068529
	Miniconda3 Windows 32-bit	4fb64e6c9c28b88beab16994bfba4829110ea3145
macOS	Miniconda3 macOS Intel x86 64-bit bash	007bae6f18dc7b6f2ca6209b5a0c9bd2f28315415
	Miniconda3 macOS Intel x86 64-bit pkg	cb56184637711685b08f6eba9532cef6985ed7007
	Miniconda3 macOS Apple M1 64-bit bash	4bd112168cc33f8a4a60d3ef7e72b52a85972d588
Linux	Miniconda3 Linux 64-bit	78f39f9bae971ec1ae7969f0516017f2413f17796
	Miniconda3 Linux-aarch64 64-bit	5f4f865812101fdc747cea5b820806f678bb50fe6
	Miniconda3 Linux-ppc64le 64-bit	1fe3305d0ccc9e55b336b051ae12d82f33af408af
	Miniconda3 Linux-s390x 64-bit	ff6fdad3068ab5b15939c6f422ac329fa005d56ee

For Windows, **make sure it is the Miniconda3 installer**, and simply double-click the exe file.

you can install Miniconda system wide, which does require administrator permissions.

### Latest Miniconda Installer Links

Latest - Conda 4.1

Platform	Name	SHA256 hash
Windows	Miniconda3 Windows 64-bit	1acbc2e8277ddd54a5f724896c7edee11
	Miniconda3 Windows 32-bit	4fb64e6c9c28b88beab16994bfba48291
macOS	Miniconda3 macOS Intel x86 64-bit bash	007bae6f18dc7b6f2ca6209b5a0c9bd2f
	Miniconda3 macOS Intel x86 64-bit pkg	cb56184637711685b08f6eba9532cef65
	Miniconda3 macOS Apple M1 64-bit bash	4bd112168cc33f8a4a60d3ef7e72b52a8

Read the Docs v: latest

Miniconda3-latest....exe

For Linux or Mac, go to folder in the terminal where the downloaded file is and type:

```
# If Mac
bash Miniconda3-latest-MacOSX-x86_64.sh

# If Linux
```

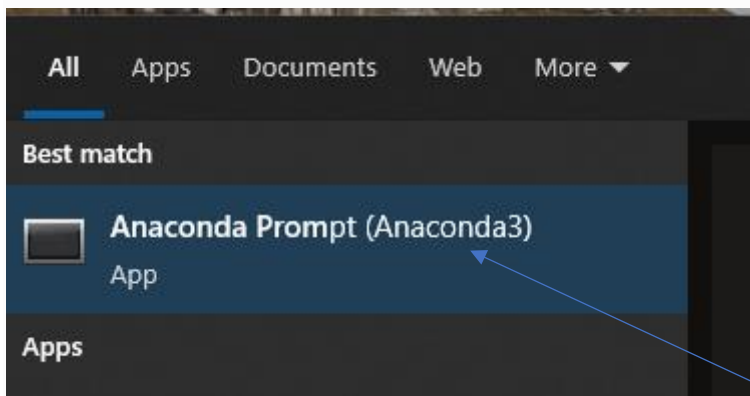
```
bash Miniconda3-latest-Linux-x86_64.sh
```

## Step 2b: Create a conda environment

If you are working with many python packages, it is generally recommended you create a separate environment for each of your packages.

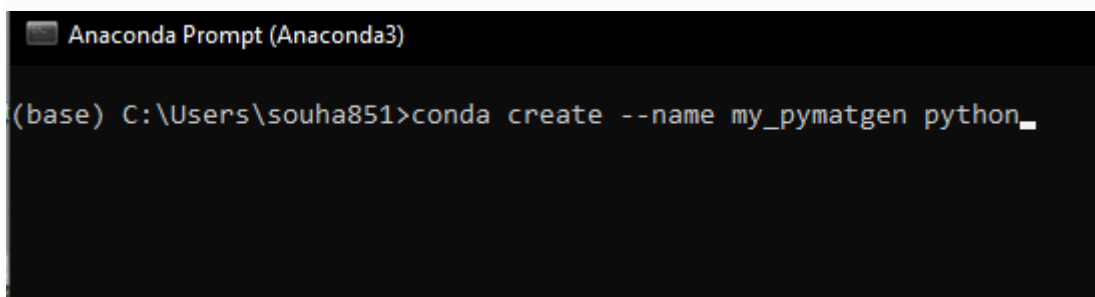
Windows:

search for the Anaconda prompt



Here it should say miniconda and not anaconda.

```
conda create --name my_pymatgen python
source activate my_pymatgen # OSX or Linux
activate my_pymatgen # Windows
```



## Step 3: Install pymatgen

You can install pymatgen via conda as well via the conda-forge channel on Anaconda cloud:

```
conda install --channel conda-forge pymatgen
```

## Step 4: Install jupyter notebook

Activate your environment

```
source activate my_pymatgen  # OSX or Linux  
activate my_pymatgen  # Windows
```

Type:

```
conda install jupyter notebook
```

## Step 4.5: Install jupyter notebook

Install mp\_api

Type:

```
pip install mp_api
```

Install pycalphad

**Type:**

```
conda install -c conda-forge pycalphad
```

```
conda install -c conda-forge nbformat
```

## Step 5: Connect jupyter notebook and test installation

```
pip install ipykernel
```

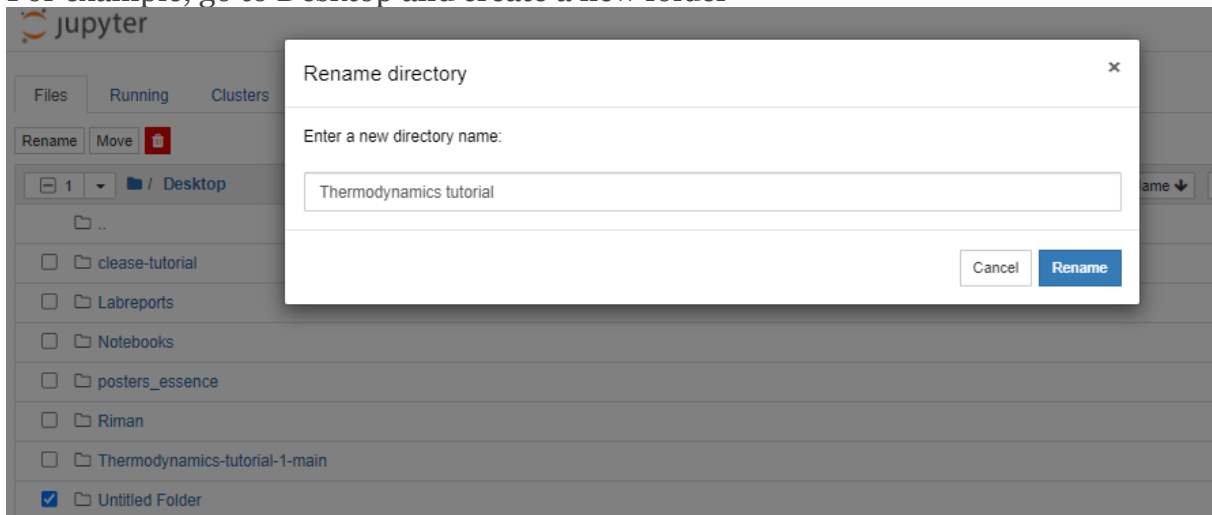
```
python -m ipykernel install --user --name="my_pymatgen" --display-name="My  
project (my_pymatgen)"
```

```
jupyter notebook
```

Now Jupyter notebooks will open in a new browser. It can look like this:

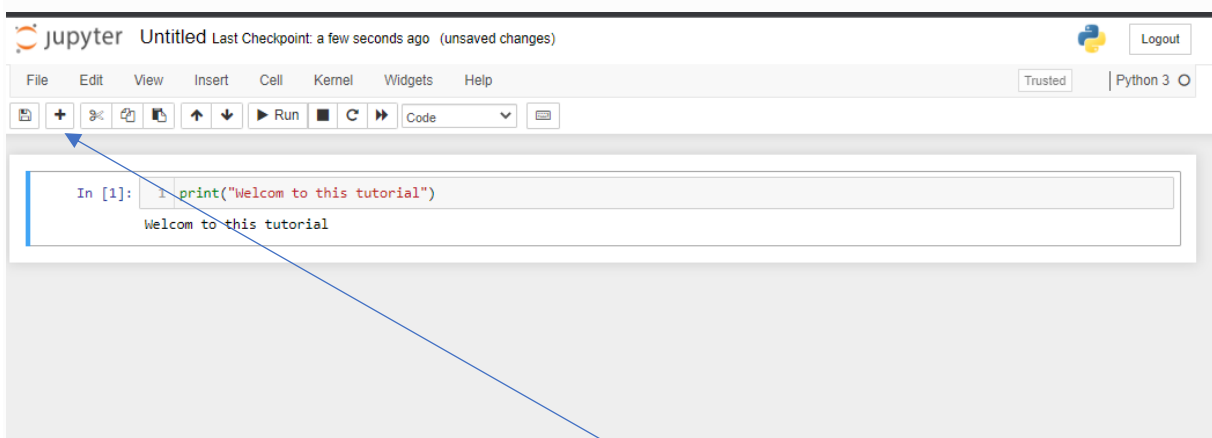


For example, go to Desktop and create a new folder



Click new again and choose Python 3.

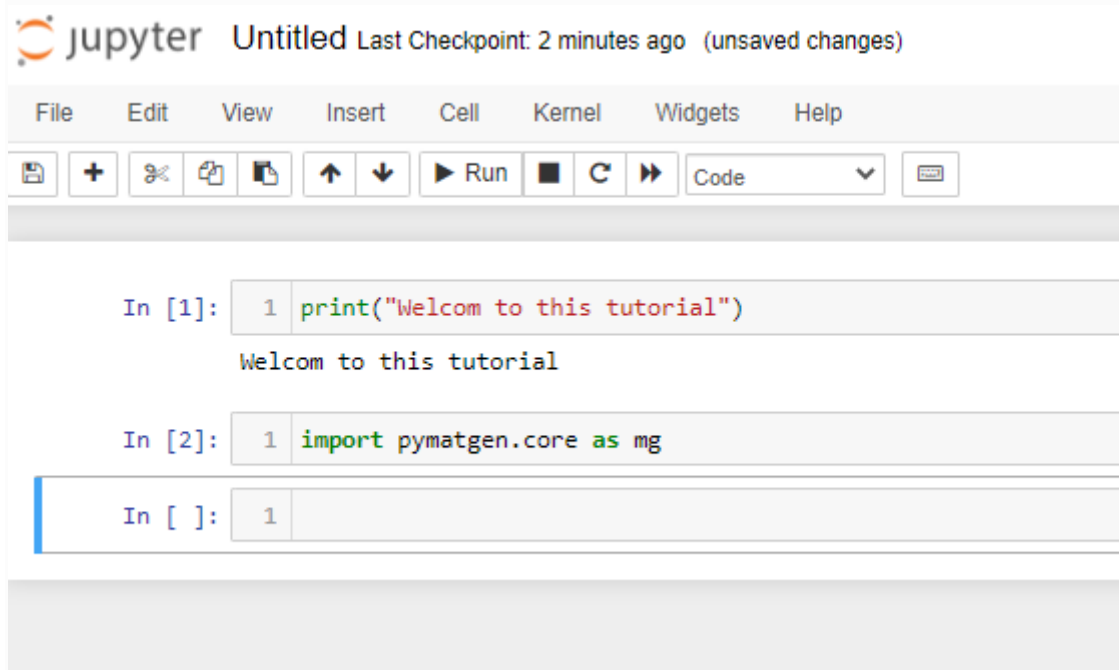
A jupyter notebook will pop up where you can write code.



Now, lets test if pymatgen works. Click on the plus and a new box will appear

Type:

```
import pymatgen.core as mg
```



If no warning or error pops up, it should work.

Test mp\_api, type:

```
from mp_api.client import MPRester
```

If no warning pops up, you're good to go.

List of commands:

```
conda create --name my_pymatgen
```

```
conda activate my_pymatgen
```

```
conda install --channel conda-forge pymatgen
```

```
pip install mp-api
```

```
conda install -c conda-forge nbformat
```

```
conda install -c conda-forge pycalphad
```

```
pip install ipykernel
```

```
python -m ipykernel install --user --name="my_pymatgen" --display-name="My  
project (my_pymatgen)"
```

```
jupyter notebook
```