0 – Setting up JupyterLab (Conda) on Linux

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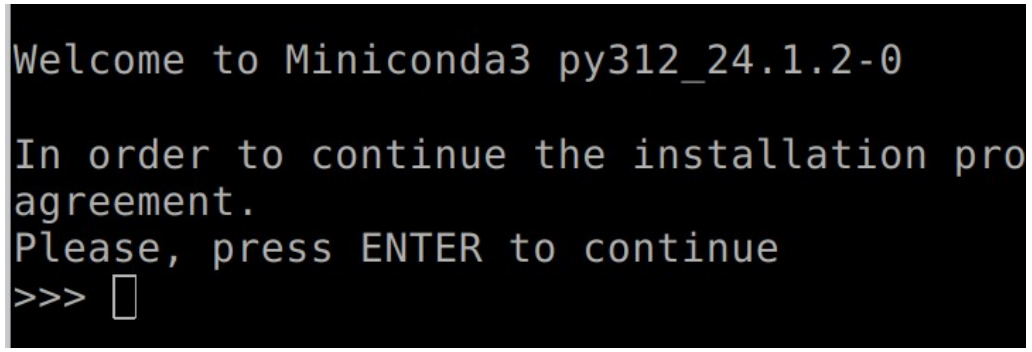
Scientific Programming / Wissenchaftliches Programmieren in Python (2024)

https://atticlectures.net/scipro/python-2024/

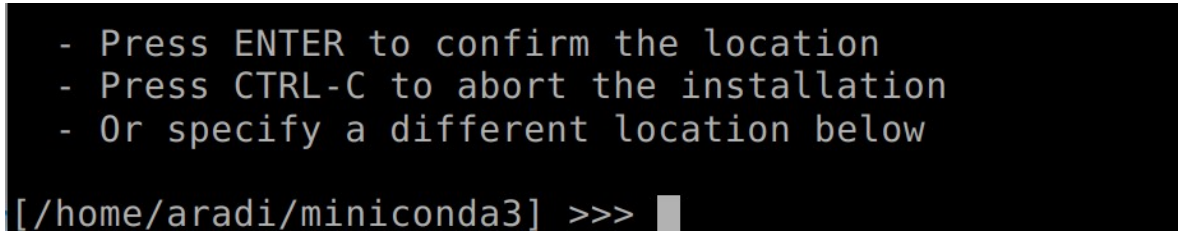
Install Conda (Miniconda) on Linux

- Download the latest Miniconda installer (Miniconda3 Linux 64-bit)
- Start the downloaded Miniconda installer (in a command terminal)

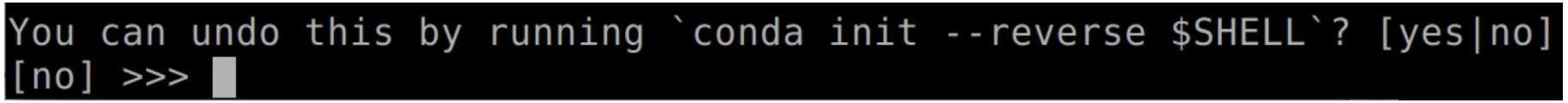
```
cd Downloads
bash Miniconda3-latest-Linux-x86_64.sh
```



Press ENTER and then repeatedly SPACE, finally enter “yes” to accept it (and ENTER)



Accept default installation destination



Press Enter

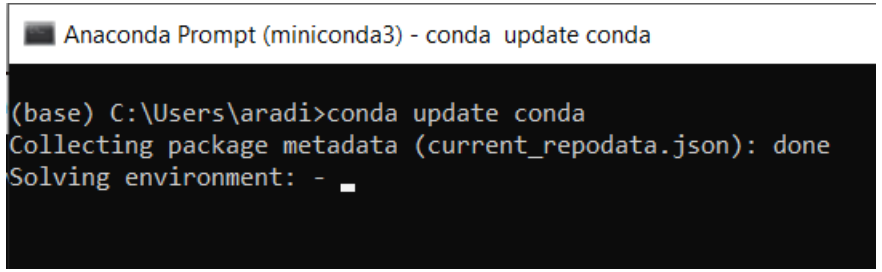
Set up Conda working environment

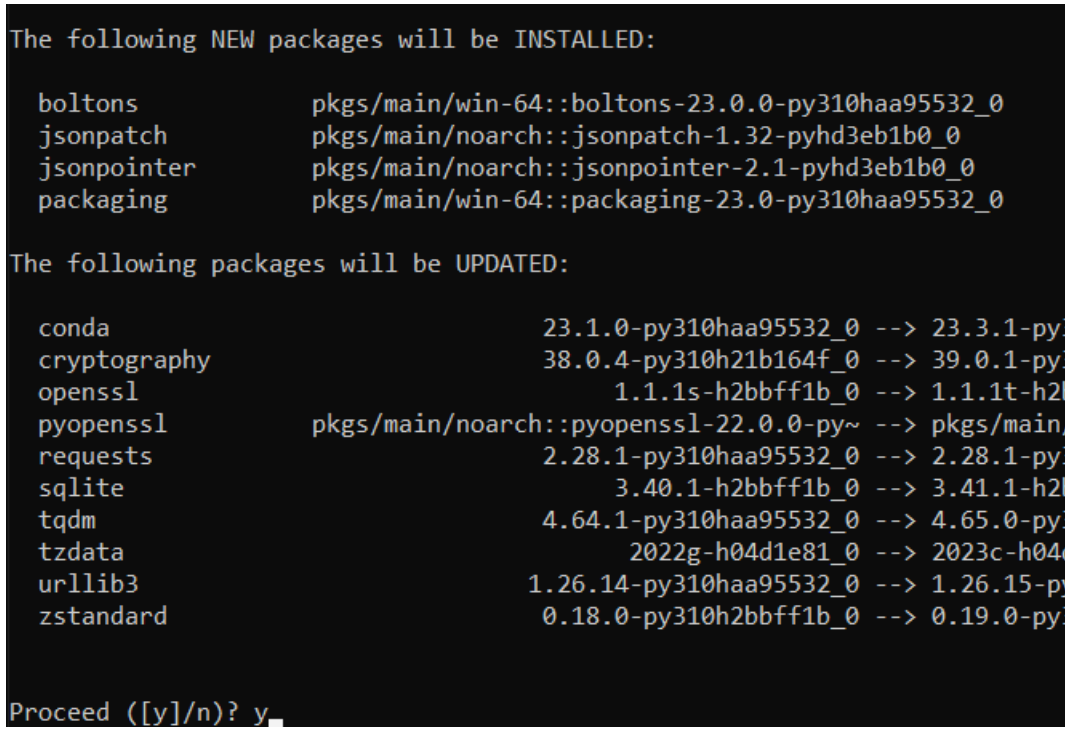
- Activate conda from a terminal

```
source ~/miniconda3/bin/activate
```

- Update Conda (in case newer version is available)

```
conda update conda
```

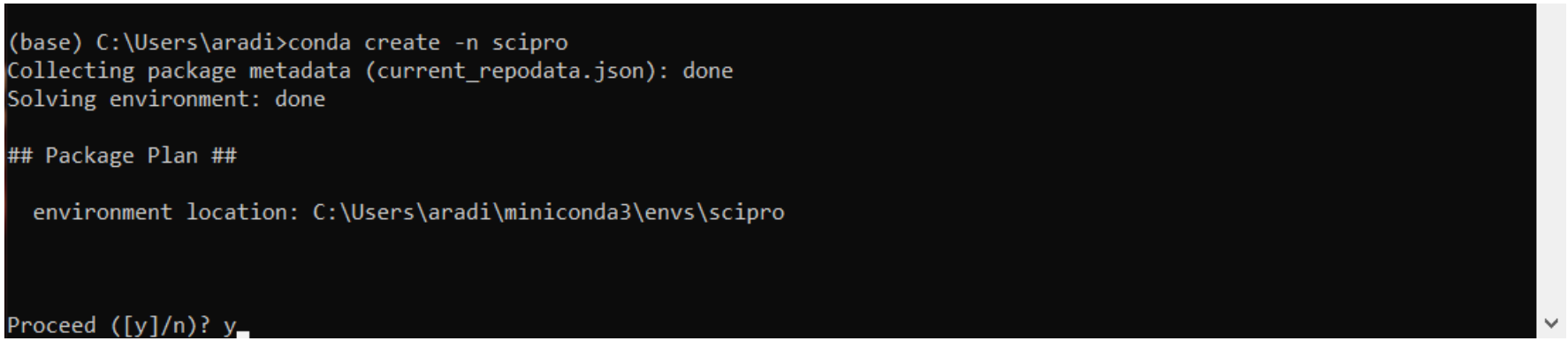




Set up Conda working environment

- Create a special environment for all the course related stuff

```
conda create -n scipro
```



- Activate the **scipro** environment

```
conda activate scipro
```

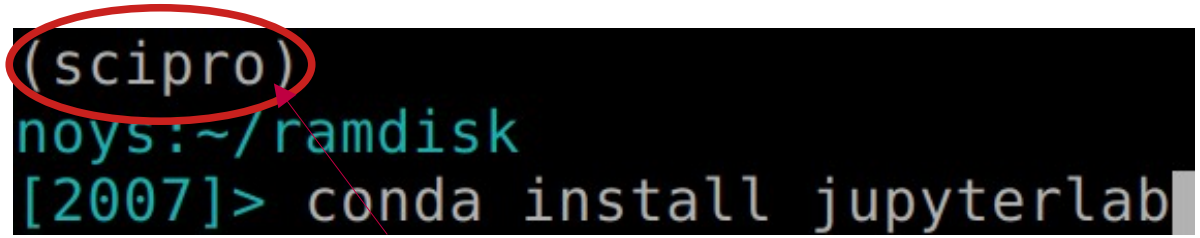
- We will install all course related programs into this environment.
- Whenever you open a **new** terminal, where you want to invoke programs from this environment, you must activate this environment.

```
source ~/miniconda3/bin/activate scipro
```

Set up Conda working environment

- Install JupyterLab (make sure, you are in the scipro environment!)

```
conda install jupyterlab
```



Name of the active environment

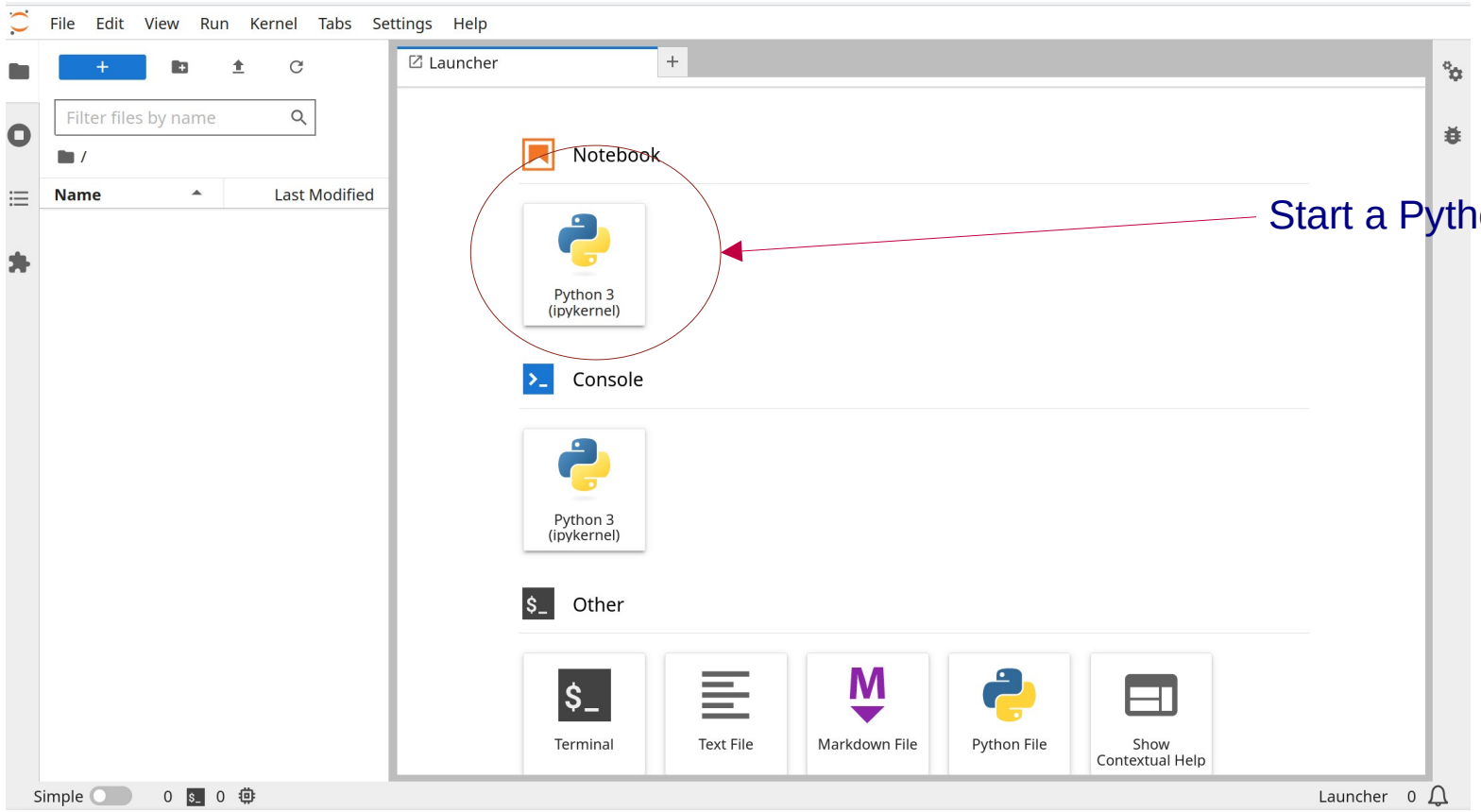
Start JupyterLab

- Start JupyterLab

```
jupyter-lab
```

```
(scipro) C:\Users\aradi>jupyter-lab
[I 2023-04-10 17:41:08.939 ServerApp] jupyterlab | extension was successfully linked.
[I 2023-04-10 17:41:08.955 ServerApp] nbclassic | extension was successfully linked.
```

- This should start a browser with JupyterLab



Start a Python 3 notebook

You are ready to use JupyterLab and create Python programs!

Have fun!