0 – Setting up JupyterLab (Conda) on Windows

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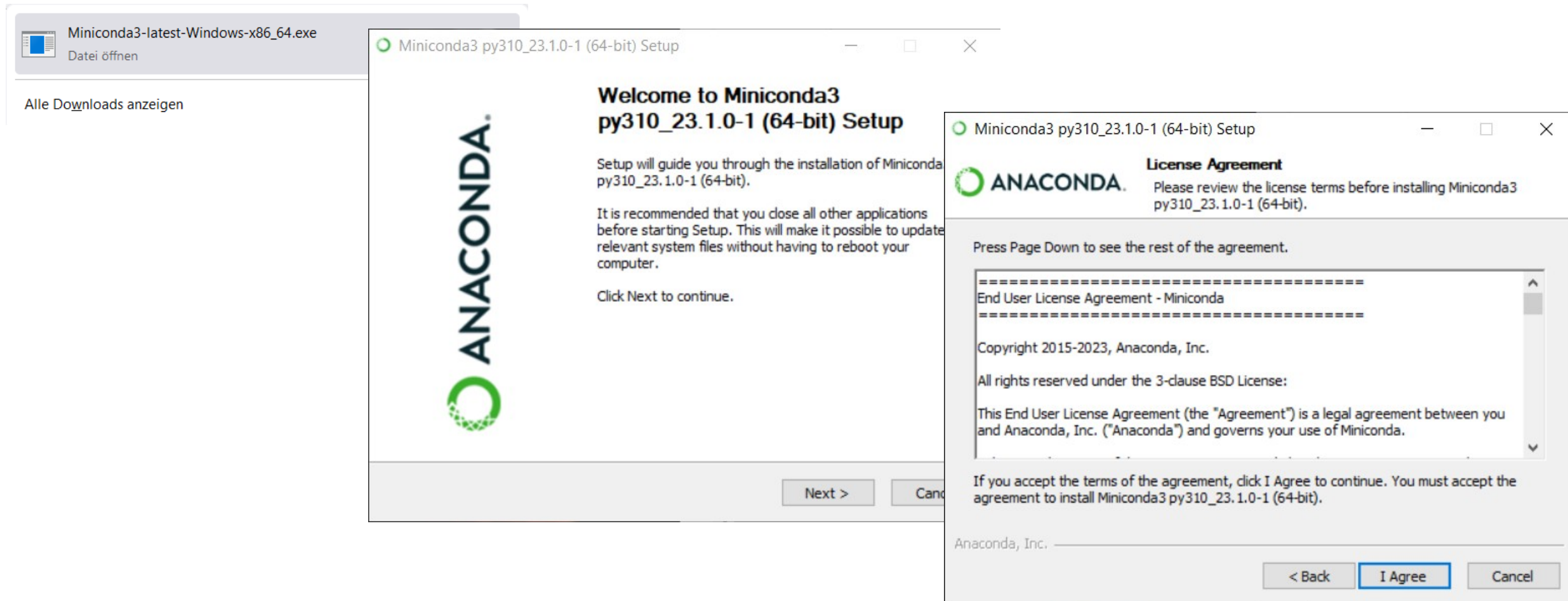
Course: Scientific Programming / Wissenchaftliches Programmieren (Python)

https://www.bccms.uni-bremen.de/people/b-aradi/wissen-progr/python/2023

Install Conda (Miniconda) on Windows

- Download the latest Miniconda installer (Miniconda3 Windows 64-bit)
- Start the downloaded Miniconda installer

Install Conda (Miniconda) on Windows

Miniconda3 py310_23.1.0-1 (64-bit) Setup — □ ×

Select Installation Type
Please select the type of installation you would like to perform for Miniconda3 py310_23.1.0-1 (64-bit).

Install for:

◉ Just Me (recommended)

○ All Users (requires admin privileges)

Anaconda, Inc.

Miniconda3 py310_23.1.0-1 (64-bit) Setup — □ ×

Choose Install Location
Choose the folder in which to install Miniconda3 py310_23.1.0-1 (64-bit).

Setup will install Miniconda3 py310_ different folder, click Browse and s

Destination Folder

C:\Users\aradi\miniconda3

Space required: 242.9 MB
Space available: 20.6 GB

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Miniconda3 py310_23.1.0-1 (64-bit) Setup — □ ×

Advanced Installation Options
Customize how Miniconda3 integrates with Windows

☑ Create start menu shortcuts (supported packages only).

☐ Add Miniconda3 to my PATH environment variable
NOT recommended. This can lead to conflicts with other appli
the Commmand Prompt and Powershell menus added to the V

☑ Register Miniconda3 as my default Python 3.10
Recommended. Allows other programs, such as VSCode, PyC
automatically detect Miniconda3 as the primary Python 3.10 d

☐ Clear the package cache upon completion
Recommended. Recovers some disk space without harming fu

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< Back

Miniconda3 py310_23.1.0-1 (64-bit) Setup — □ ×

Completing Miniconda3 py310_23.1.0-1 (64-bit) Setup

Thank you for installing Miniconda.

Here are some helpful tips and resources to get you started. We recommend you bookmark these links so you can refer back to them later.

☑ Getting started with Conda

☑ Welcome to Anaconda

< Back   **Finish**   Cancel

Set up Conda working environment

- Start the Anaconda prompt (= command line terminal with initialized Conda environment)
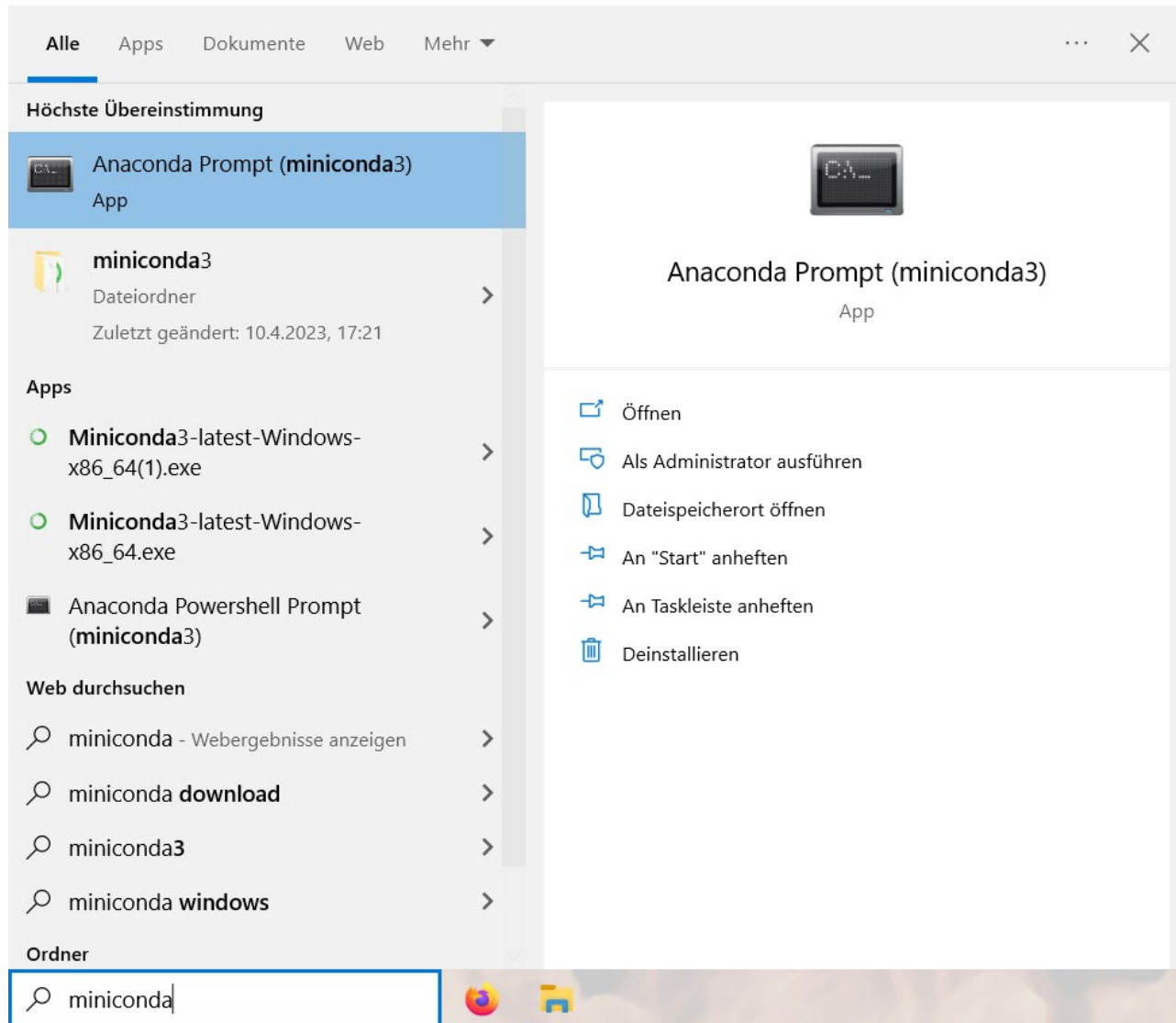
Set up Conda working environment

- 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
```

```
(base) C:\Users\aradi>conda create -n scipro
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\Users\aradi\miniconda3\envs\scipro


Proceed ([y]/n)? y
```

- Activate the **scipro** environment

```
conda activate scipro
```

- We will install all course related programs into this environment.

- Whenever you start the Anaconda prompt, you should activate this environment with the command above in order to access the installed programs.

- You might create further environments to host other software collections for other projects.

Set up Conda working environment

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

```
conda install jupyterlab
```

```
(scipro) C:\Users\aradi>conda install jupyterlab
Collecting package metadata (current_repodata.json): \
```

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

- (If nothing happens for a long time, it may be necessary to press Ctrl-C (Strg-C) once in the command window)
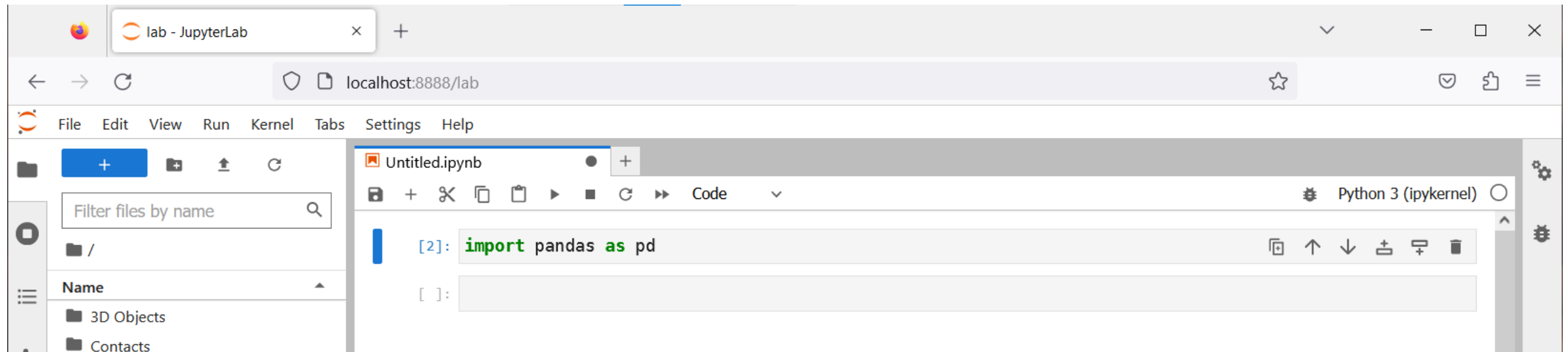
You are ready to use JupyterLab and create Python programs!

Have fun!