



System Setup

We will be coding in Python in this class. You need a development environment for some of the exercises and for the project. It is recommended to use a **conda** environment specifically for this class.

Recommended steps:

- Familiarize yourself with Anaconda/miniconda. Install miniconda
 - How to install it depends on your operating system, see e.g.
<https://docs.anaconda.com/miniconda/>
<https://formulae.brew.sh/cask/miniconda>
- Create and activate a conda environment (named vis24) and install the necessary Python packages
 - Recommended: use the provided **environment.yml** file: simply execute

```
conda env create
```


in the folder you placed the **environment.yml** file into to create the environment **vis24**.
 - Activate the vis24 environment using

```
conda activate vis24
```
- Install an IDE of your choice (if not already installed) - recommended: VS Code
 - Execute the provided **hello-rosenheim.ipynb** Jupyter Notebook from your IDE within the vis24 environment and verify that it executes successfully
 - Run the provided **hello-rosenheim.py** from your IDE (from the terminal inside your IDE) within the vis24 environment – you should see the “Hello Rosenheim...” message in your browser
- Install Docker (if not already installed) - <https://docs.docker.com/install/>
- Test your docker installation by running the Docker Hello World container with

```
docker run hello-world
```

Note: You may have to start the demon “Docker Desktop” or “Docker Demon” first.
- Install git (if not already installed) - <https://git-scm.com/>