

Getting Started with Programming

In this seminar, we encourage the use of Google Colab for programming tasks, especially for beginners. Google Colab is an online platform that provides a simple, beginner-friendly environment for writing and executing Python code. By using Colab, you can avoid common installation issues, compatibility problems, and system-specific challenges. It runs entirely in the cloud, so you do not need to install Python locally. To save your work and share notebooks with others you need a Google account.

For those who prefer local development:

If you prefer to run code locally on your machine, that is also possible. Follow the instructions below to install the necessary tools. If you encounter any errors or issues with the installation, don't worry. In the upcoming tutorial on Monday, we will try to complete the installation for everyone.

Installing Visual Studio Code, Python, and Modules

This short guide runs you through the installation process of Visual Studio Code, Python, and the modules required for the seminar.

https://www.youtube.com/watch?v=h1sAzPojKMg&t=1s&ab_channel=VisualStudioCode

Installing Python Modules Used in the Course

Open the Anaconda prompt and type: `conda install matplotlib numpy`

Installing PyTorch

Go to this website: <https://pytorch.org/get-started/locally/>

On the website, choose the stable build, select **conda** under the package option, and choose a compute platform (CUDA is used to run code on your Graphics Card (GPU), but it is not required for this seminar).

After selecting your settings, copy-paste the generated installation command into the Anaconda prompt and press enter.

Further Resources

Getting started with Python programming:

<https://www.w3schools.com/python/>

Getting started with PyTorch:

https://pytorch.org/tutorials/beginner/basics/quickstart_tutorial.html

Jupyter Notebooks in Visual Studio Code:

<https://code.visualstudio.com/docs/datascience/jupyter-notebooks>