- 1. VS Code: https://code.visualstudio.com/
- 2. Python (virtual environment or anaconda):
 - Personally, I use and recommend Anaconda: https://www.anaconda.com/
 - Ideally, create and activate a new environment for the seminar: conda create --name
 your_env_name; conda activate your_env_name
 - For Python package installations:
 - On Linux Use the commands on the provided Anaconda webpages
 - On Windows Use the graphical Anaconda application: https://www.youtube.com/watch? v=7 o kjG1Sfs
- 3. Python packages (and their use during the seminar):
 - o ipykernel To run jupyter notebook: https://anaconda.org/anaconda/ipykernel
 - To make the environment available in jupyter notebook: python -m ipykernel install --user --name=**your_env_name**
 - git Demonstration of git functionalities provided by VS Code: https://anaconda.org/anaconda/git
 - **ase** Example package to demonstrate advanced navigation of large code bases: https://anaconda.org/conda-forge/ase
 - **black** Automatic Python code formatting: https://anaconda.org/conda-forge/black
- 4. For the seminar recommended VS Code extensions (extension packs for convenience):
 - Python extension pack Easy linking of conda env, Python Intellisense, etc.:
 https://marketplace.visualstudio.com/items?itemName=donjayamanne.python-extension-pack
 - **Bash extension pack** IDE features for bash: https://marketplace.visualstudio.com/items? itemName=lizebang.bash-extension-pack
 - **Jupyter** Running Jupyter Notebooks in VS Code: https://marketplace.visualstudio.com/items? itemName=ms-toolsai.jupyter
- 5. Some other useful VS Code extensions:
 - Search with cursor Shortcut to search selected text on Google: https://marketplace.visualstudio.com/items?itemName=hasefumi23.search-with-cursor
 - Kite Al-powered code completion: https://marketplace.visualstudio.com/items? itemName=kiteco.kite
 - Error Lens Improved language diagnostics and error reporting: https://marketplace.visualstudio.com/items?itemName=usernamehw.errorlens
 - Git File History Seamless browsing of different file versions in git history: https://marketplace.visualstudio.com/items?itemName=pomber.git-file-history
 - **GitLens** Extensive additional git annotations: https://marketplace.visualstudio.com/items? itemName=eamodio.gitlens
 - Todo Tree Workspace-wide TODOs: https://marketplace.visualstudio.com/items? itemName=bat67.latex-extension-pack
 - LaTeX extension pack https://marketplace.visualstudio.com/items?itemName=bat67.latexextension-pack