

Compact Course: *Python best practices*

Date: 7.6.23 9-13 Uhr

Instructor: Dr. Inga Ulusoy, Research Software Engineer, Scientific Software Center

Venue:

The course will be given as an in-person event in Mathematikon Bauteil A, Im Neuenheimer Feld 205, in the conference room 5/104 on the 5th floor.

Prerequisites:

Basic Python knowledge is required. Participants need a laptop/PC with camera and microphone.

Summary:

Python has rapidly advanced to the most popular programming language in science and research. From data analysis to simulation and preparation of publications, all can be done in Python with appropriate libraries and implementing own modules. We will discuss Python Enhancement Proposals (PEP) and how these can help you write cleaner code. Common pitfalls in Python will be explained with examples. We will demonstrate typical “bad programming” and how to code the examples in a more pythonic way.

Learning objectives:

After the course participants will be able to

- Understand the basic PEP recommendations
- Use a linter and code formatter to ensure following of the guidelines
- Write better=more readable code
- Avoid bugs through best practices for example in passing keyword arguments

Registration:

Please register using this webform:

<https://ssc.iwr.uni-heidelberg.de/form/python-best-practices-ss23>