

CFM Software Carpentry Tracks - 2017-05-04 - Introduction to Scientific Python

Date & place: Materials Physics Center (CFM) Computer Room - San Sebastian, 4th May, 9:30-13:30 2016

Track: Introduction to Scientific Python

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Abstract

Introductory lesson for Scientific Computing with Python based on the [SciPy](#) stack having four parts:

- An overview of the Scientific Python ([SciPy](#)) ecosystem.
- A short introduction to the [Jupyter notebooks](#) web based interactive computational environment.
- An introduction to [NumPy](#), based on Valentin Haenel's [SciPy 2013 Tutorial](#).
- A very short practical introduction to [Matplotlib](#).
- A guided hands-on demonstration of some of the [SciPy](#) library subpackages.

The participants are encouraged to follow the hands-on parts in their laptops. For this is enough with just having the [Anaconda](#) Python scientific stack installed. Installation is straightforward and you can follow eg. this [installation instructions](#).

Targeted audience: scientific and technical people interested in scientific computing, data analysis, task automation,...

Content level: beginner

Audience prerequisites: basic general programming knowledge. Python knowledge is desirable but not essential if you have experience with any other programming language.

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