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 five 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 demostration 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 languaje.

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