Software Carpentry Workshop - San Sebastian 2016 - Scientific Python Lesson

Lesson: Scientific Python

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Abstract

Introductory track for Scientific Computing with Python based on the SciPy stack having four parts:

- A short overview to some of the SciPy ecosystem core packages.
- A quick start guide to IPython web based interactive computational environment, i.e. IPython notebooks, which will allow the participants to follow along the rest of the tutorial.
- Oier Etxaniz introduction to NumPy (tutorial material).
- 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. Please use the Python 3.4 version for your platform.

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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