Pyhton San Sebastian 2017 - Python workshop

Date & place: Materials Physics Center (CFM) Auditorium - San Sebastian, 6th October, 9:15h - 17:30h

Content: Introduction to Python and Scientific Python

Instructors: Alex Savio <alex.savio@gmail.com> and Iñigo Aldazabal Mensa <inigo.aldazabalm@ehu.eus>

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. Please use the Python 3 version for your platform.

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

Content level: beginner

Audience prerequisites: basic general programming knowledge. Python knowledge is desirable for the evening sessions, but not essential if you have experience with any other programming languaje.

Morning session

Introduction to Python, instructor Alex Savio.

General introduction to the Python programming language following the Software Carpentry Plotting and Programming in Python lesson. Plotting will be covered on the evening session.

Evening session

Introduction to Scientific Python, instructor Inigo Aldazabal.

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

- An overview of the Scientific Python (SciPy) ecosystem.
- 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.

Schedule

9:15 - 11:00	Introduction to Python
11:00 - 11:30	*Coffee break*
11:30 - 13:00	Introduction to Python (cont.)

14:30 - 15:45	Introduction to Scientific Python
15:45 - 16:15	*Coffee break*
16:15 - 17:30	Introduction to Scientific Python (cont.)

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