

Python 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: Iñigo Aldazabal Mensa <inigo.aldazabalm@ehu.eus>, Alex Savio <alex.savio@gmail.com> and Gabriel de Maeztu <gabriel.maeztu@gmail.com>

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 language.

Morning session

Introduction to Python, instructors Alex Savio and Gabriel de Maeztu.

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 demonstration of some of the [SciPy](#) library subpackages.

Schedule

9:15 - 11:00	Introduction to Python
11:00 - 11:30	<i>Coffee break</i>
11:30 - 13:00	Introduction to Python (cont.)
14:30 - 15:45	Introduction to Scientific Python
15:45 - 16:15	<i>Coffee break</i>
16:15 - 17:30	Introduction to Scientific Python (cont.)

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