

# 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:** Alex Savio <[alex.savio@gmail.com](mailto:alex.savio@gmail.com)> and Iñigo Aldazabal Mensa <[inigo.aldazabalm@ehu.eus](mailto: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 language.

## 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 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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