Some python related issues which deserve to be mentioned:

jupyter

A software environment which integrates ipython with an HTML code generator to build interactive dynamical web pages where you can have text, math expressions, images and python code.

o cython

"Cython is Python with C data types". You write python code, add C declarations for selected objects, compile everything and get a fast python module to use in your procedures.

anaconda

A python distribution which includes a package manager (**conda**). It simplifies the installation and maintenance of various version of python whith its packages.

Bibliography

The Official Python Tutorial. https://docs.python.org/3/tutorial https://docs.python.org/2.7/tutorial Python for Data Analysis. Wes McKinney, O'Reilly. The book covers advanced Python tools for data analysis applications, including: IPython, NumPy, Matplotlib Python Scripting for Computational Science, H. P. Langtangen, University of Oslo. ilncludes an extended introduction to Python as general purpose programming language also covering advanced tools, but (at least the version I could find) is somewhat outdated. 4 Guide to NumPy, Travis E. Oliphant. A fairly complete guide to NumPy. The older 2006 version is freely available in PDF format; second edition (2015) is at the time of my writing only available as printed book. Python Crash Course, Eric Matthes, No Starch Press. A thorough introduction to Python language; includes the description of some software projects, even complex ones. A section is devoted to data analysis and visualization. Dive Into Python 3, Mark Pilgrim. A classic advanced manual for Python 3. Available on-line. Python. Guida completa, Marco Buttu, Digital Life Style. A good general Python book in Italian which deals also with some formal aspects of the language. The author is a collegue from Cagliari Observatory.

Web resouces

https://www.python.org The official place for Python. Do start from here! https://www.python.it The official place for the Italian Python community. https://pypi.python.org PyPI - the Python Package Index. http://www.numpy.org The home of Numerical Python. http://www.scipy.org The home of Scientific Python. http://www.astropy.org The home of Astrony, the astronomical "accesystem

The home of Astropy, the astronomical "ecosystem of interoperable astronomy packages".