

# Python course :: key references

Python is the most popular language nowadays. As a result, there are tons of Python tutorials on www. It is easy to be confused and/or overwhelmed. The following list contains carefully selected and well-established sources. Our course uses many examples from these sources, namely from the **recommended** ones.

## Introductory tutorials

- <https://www.python.org/about/help>
  - Basic Python help site with many useful references.
- <https://docs.python.org/3/tutorial>
  - **Recommended:** One of the best references for beginners from the site above.
- <https://www.pythontutorial.net>
  - **Recommended:** Alternative, concise, example-based tutorial; includes NumPy.

## Simple textbooks

- <https://problemsolvingwithpython.com>
  - Textbook for beginners (perhaps not the best, but simple).
- <https://nbviewer.org/github/jakevdp/WhirlwindTourOfPython/blob/master/Index.ipynb>
  - Fast introduction to Python (not so simple, but high level).
- <https://openbookproject.net/thinkcs/python/english3e>
  - **Recommended:** very good and detailed step-by-step intro to Python.

## Python courses and lecture notes

- <https://python-course.eu>
  - Useful site, many links including detailed Python tutorial.
- <https://scipy-lectures.org>
  - **Recommended:** lectures focused on scientific computing.

## Scientific computing in Python

- <https://pythonnumericalmethods.berkeley.edu/notebooks/Index.html>
  - Free textbook from UC Berkeley (step-by-step intro to scientific computing).
- <https://jakevdp.github.io/PythonDataScienceHandbook>
  - **Recommended:** excellent textbook (a bit more complex, but maybe the best).