



# Python Training for Data Science | scientific python

## Introduction to Python Training

### Introduction to Python – Block 1

7h + 2h

- The types of variables (integer, decimal, boolean, etc.) and basic operators;
- Data structures (list, tuple, dictionary, etc.);
- Flow checks (if-else, try-except-finally);
- Loops (for, while);
- Control-loop combinations;
- Functions and methods (function (object) and object.method ());
- Importing plugins to access more functions-methods;
- Syntax and good practices.

### Introduction to Python – Block 2

5h

- Manage modules;
- Administer the operating system
- Pull data from the web (web scraping);
- Rectify the data with the regex module;
- Integrate time with the datetime module.

### Initiation to the science of data

14h

- Jupyter Notebook, Spyder and others;
- Introduction to Numpy;
- Introduction to Pandas – Series Object;
- Introduction to Pandas – DataFrame Object;
  - Extra: Introduction to Pandas – Instructions;
  - Extra: Tidy Data;
- groupby and aggregations;
- Data collection with Web API and analysis;
- Graphic visualization;
  - Extra: Map view.

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