

## Python Training for Data Science | scientific python

### Objectif(s):

- Take in hand and write Python code
  - Know the standard modules
- Being able to create to organize its code in the form of module and package
  - Introduction to data science with Python

**Durée** : 4 jour(s)

### Préalable :

- Good knowledge of the computer tool

**Public** : Tous

## Contenu

### 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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