Introduction to Python

SIT training program

What is Python?

- Open source software
 - Open Source Initiative (OSI) organisation
- Interpreted language, not compiled
- High level language
- Clean syntax
- Object Oriented Programming language (OOP)
- Differences with other PLs: R
 - Syntax, speed
- Programming environments
 - Visual Studio Code
- Anaconda (Python 3.7)
 - Jupyter Notebook



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Anaconda Distribution

The World's Most Popular Python/R Data Science Platform

Download

The open-source Anaconda Distribution is the easiest way to perform Python/R data science and machine learning on Linux, Windows, and Mac OS X. With over 15 million users worldwide, it is the industry standard for developing, testing, and training on a single machine, enabling *individual data scientists* to:

- · Quickly download 1,500+ Python/R data science packages
- · Manage libraries, dependencies, and environments with Conda
- Develop and train machine learning and deep learning models with scikitlearn, TensorFlow, and Theano
- Analyze data with scalability and performance with Dask, NumPy, pandas, and Numba
- · Visualize results with Matplotlib, Bokeh, Datashader, and Holoviews







