

# Resources for Learning Python

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# Python programming language

- (From wiki) “Python is a widely used high-level, general-purpose, interpreted, **dynamic programming language**. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java.”
- Many libraries that support text processing:
  - Regular expressions (`re`).
  - `nltk` library.
- Rich scientific computing, machine learning, data processing and data visualization libraries
  - `scikit-learn`
  - `scipy`, `numpy`
  - `pandas`, `matplotlib`,...

# Resources for learning Python

- Recommended course: Google's Python Class  
<https://developers.google.com/edu/python>
- Recommend to use Anaconda to install/manage Python packages  
<https://www.continuum.io>
- Learn Python the hard way:  
<https://learnpythonthehardway.org/>
- The Hitchhiker's Guide to Python!  
<http://docs.python-guide.org/en/latest/>

- Python Quick Guide: [https://www.tutorialspoint.com/python/python\\_quick\\_guide.htm](https://www.tutorialspoint.com/python/python_quick_guide.htm)
- Tutorial - Learn Python in 10 minutes:  
<https://www.stavros.io/tutorials/python/>
- Python for Programmers: <https://wiki.python.org/moin/BeginnersGuide/Programmers>
- **Introduction to Python** <http://www.slideshare.net/nowells/introduction-to-python-5182313>
- Yet another introduction to Python  
<http://tinyurl.com/hjdadjw>

- Install Anaconda for Python & libraries for scientific computing
  - Download Anaconda from:  
<https://www.continuum.io/downloads>
  - Recommended version: **Python 3.5**
- Install `nltk` data
  - Large size ( $\approx$  2.5 GB)
- You can copy Anaconda and `nltk` data from my laptop.