



PYTHON PROGRAMMING 101

TAKEAWAYS

We covered a lot today! Here are the top five things to remember:

- Python is a free, open-source programming language, easy to pick up and learn
- Python is used in a variety of applications, from research to industrial and commercial applications
- Python comes with “Batteries Included”, i.e. there is a large collection of modules to make some tasks within a particular problem domain simpler on you.
- Python’s programming style makes it easy to read and write programs in no time

VOCAB

KEY TERM	DEFINITION
Python	<i>Programming language created by Guido Van Rossum in 1991</i>
open-source software	<i>Code licensed to allow for anyone to study, change, and distribute the code for any reason</i>
interpreted programming language	<i>Instructions are executed directly, without previously translating a program into machine-language instructions</i>
Jupyter notebook	<i>Human-readable document containing the analysis description and the results (figures, tables, etc...) as well as executable documents which can be run to perform data analysis.</i>
control structure	<i>Block of programming instructions that analyses variables and chooses a direction in which to go based on given parameters</i>
control flow	<i>The order in which individual statements and instructions in a program are executed or evaluated given certain conditions and parameters</i>

RESOURCES

Want to dig deeper? Check out these resources:

- For beginner programmers:
 - [Learn Python the hard way](#)
 - [A Beginner's Python Tutorial](#)
- For programmers new to python
 - [Moving to Python From Other Languages](#)
 - [Python for java developers](#)
- For more seasoned programmers:
 - * Challenge yourself by tackling the [Python Challenge](#)