

Python Basics

Topic	Option 1	Option 2
What is Python?	https://www.programiz.com/python-programming	https://www.w3schools.com/python/python_intro.asp
Variables	https://www.programiz.com/python-programming/variables-constants-literals	https://www.python-course.eu/python3_variables.php
Types	https://www.programiz.com/python-programming/variables-datatypes	
Operations	https://www.programiz.com/python-programming/operators	https://www.w3schools.com/python/python_operators.asp
Type conversion	https://www.programiz.com/python-programming/type-conversion-and-casting	http://interactivepython.org/runestone/static/CS152f17/SimplePythonData/Typeconversionfunctions.html

Python Lists

Topic	Option 1	Option 2
Create a list	https://www.programiz.com/python-programming/list#create	https://www.w3schools.com/python/python_lists.asp
Access lists	https://www.programiz.com/python-programming/list#access	
Slice list	https://www.programiz.com/python-programming/list#slice	
Replace list elements	https://www.programiz.com/python-programming/list#change	
Delete list elements	https://www.programiz.com/python-programming/list#delete	
List methods	https://www.programiz.com/python-programming/list#method	

Functions and Packages

Topic	Option 1	Option 2
Functions	https://www.programiz.com/python-programming/function	https://www.python-course.eu/python3_functions

	https://www.programiz.com/python-programming/function-argument	.php
Packages	https://www.programiz.com/python-programming/modules https://www.programiz.com/python-programming/package	https://www.w3schools.com/python/python_modules.asp

Flow Control

Topic	Option 1	Option 2
if...else...	https://www.programiz.com/python-programming/if-elif-else	https://www.w3schools.com/python/python_conditions.asp
for	https://www.programiz.com/python-programming/for-loop	https://www.w3schools.com/python/python_for_loops.asp
while	https://www.programiz.com/python-programming/while-loop	https://www.w3schools.com/python/python_while_loops.asp
Break	https://www.programiz.com/python-programming/break-continue	NA

NumPy

Topic	Option 1	Option 2
Intro to NumPy	https://docs.scipy.org/doc/numpy/user/quickstart.html#	https://www.python-course.eu/numpy.php
Create NumPy Array	https://docs.scipy.org/doc/numpy/user/quickstart.html#array-creation	https://www.python-course.eu/numpy_create_arrays.php
NumPy basic operations	https://docs.scipy.org/doc/numpy/user/quickstart.html#basic-operations	https://www.python-course.eu/numpy_numerical_operations_on_numpy_arrays.php
Manipulate NumPy Arrays	https://docs.scipy.org/doc/numpy/user/quickstart.html#shape-manipulation	https://www.python-course.eu/numpy_changing_dimensions.php

Pandas

Topic	Option 1	Option 2
Intro to Pandas	https://pandas.pydata.org/pandas-docs/stable/getting_started/10min.html	https://www.tutorialspoint.com/python_pandas/python_pandas_basic_functionality.htm https://www.tutorialspoint.com/python_pandas/python_pandas_dataframe.htm

Python Quiz

Topic	Options
Intro to Python	- https://www.programiz.com/python-programming/quiz/introduction/take/1 - https://www.geeksforgeeks.org/data-type-gq/ - https://www.geeksforgeeks.org/operators-gq/
Lists	- https://www.programiz.com/python-programming/quiz/functions/take/1
Python function and packages	- https://www.geeksforgeeks.org/functions-python-gq/
Flow control	- https://www.programiz.com/python-programming/quiz/decision-making
NumPy	- https://www.w3resource.com/python-exercises/numpy/basic/index.php
More quizzes	- https://realpython.com/quizzes/