

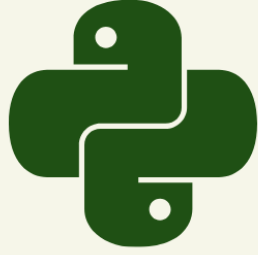
Python Basics: a Quick Reference



Learning Objectives:

- Students will employ a quick-reference guide as needed.

As you move further into the Python learning content, feel free to save and reference this image until the basics become more like muscle memory for you!



PYTHON BASICS

DATA TYPES & MORE

DATA TYPE	EXPLANATION
string	immutable collection of characters <i>ex: "ninjas" or "p@ssw0rd!"</i>
int	non-decimal numbers <i>ex: 582</i>
float	decimal-inclusive numbers <i>ex: 4.3</i>
boolean	represent either True or False
list	set holding a groups of values <i>ex: fruits = ['apple', 'peach', 'orange']</i>
tuple	container for an immutable sequence of data objects <i>ex: dog = ("Canid", "dog", "Fido", 12)</i>
dictionary	mutable, unordered set containing unique keys for each value <i>ex: weekend = {"Sun": "Sunday", "Sat": "Saturday"}</i>

CONDITIONALS	EXAMPLE
Allow the running of certain lines of code, depending on whether conditions are met, controlling how code is executed by the interpreter. Keywords for conditional statements are if , elif , and else .	<pre>x = 55 if x > 10: print("bigger than 10") elif x > 50: print("bigger than 50") else: print("smaller than 10")</pre>














LOOPS	EXAMPLE
A for loop is used for iterating over a sequence (a range, list, tuple, dictionary, set, or string). A while loop is iterates over a sequence as long as the condition is true, generally when the number of iterations is unknown beforehand.	<pre>for x in range(5): print(x) count = 0 while count <= 5: print("looping - ", count) count += 1</pre>

Python v22.1 (Online Part-time)

< Python Fundamenta... >

Introduction & Setup ▾

Python Fundamentals ▲

-  Python Syntax 
-  Data Types 
-  Numbers 
-  Tool Tip: Playgrounds 
-  Strings 
-  Recognize Python 
-  Check Your Knowledge! Basic Data Types 