Python Glossary

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<u>Indentation</u> Ind	dentation refers to the spaces at the beginning of a code line	
<u>Comments</u> Co	omments are code lines that will not be executed	
Multi Line Comments Ho	ow to insert comments on multiple lines	
<u>Creating Variables</u> Va	ariables are containers for storing data values	
<u>Variable Names</u> Ho	ow to name your variables	
Assign Values to Multiple Ho Variables	ow to assign values to multiple variables	
Output Variables Us	se the print statement to output variables	
String Concatenation Ho	ow to combine strings	
Global Variables Global Variables	obal variables are variables that belongs to the global scope	
Built-In Data Types Py	thon has a set of built-in data types	
Getting Data Type Ho	ow to get the data type of an object	
Setting Data Type Ho	ow to set the data type of an object	
<u>Numbers</u> Th	nere are three numeric types in Python	
<u>Int</u> Th	ne integer number type	
<u>Float</u> Th	ne floating number type	
<u>Complex</u> Th	ne complex number type	
Type Conversion Ho	ow to convert from one number type to another	
Random Number Ho	ow to create a random number	
Specify a Variable Type Ho	ow to specify a certain data type for a variable	
String Literals Ho	ow to create string literals	
Assigning a String to a Variable Ho	ow to assign a string value to a variable	
Multiline Strings Ho	ow to create a multi line string	
	rings in Python are arrays of bytes representing Unicode aracters	
Slicing a String Ho	ow to slice a string	
Negative Indexing on a String Ho	ow to use negative indexing when accessing a string	
String Length Ho	ow to get the length of a string	
Check In String Ho	ow to check if a string contains a specified phrase	
Format String Ho	ow to combine two strings	
· ·	ow to use escape characters	
Boolean Values Tre	ue or False	
<u>Evaluate Booleans</u> Ev	valuate a value or statement and return either True or False	
Return Boolean Value Fu	unctions that return a Boolean value	
<u>Operators</u> Us	se operator to perform operations in Python	
	ithmetic operator are used to perform common mathematical perations	
<u>Assignment Operators</u> As	ssignment operators are use to assign values to variables	
<u>Comparison Operators</u> Co	omparison operators are used to compare two values	
<u>Logical Operators</u> Lo	gical operators are used to combine conditional statements	
	entity operators are used to see if two objects are in fact the time object	
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Membership Operators Me	embership operators are used to test is a sequence is present an object	
Membership Operators Me in Bitwise Operators Bit	an object twise operators are used to compare (binary) numbers	
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List Langth	How to determine the length of a list
List Length Add List Items	How to determine the length of a list How to add items to a list
Remove List Items	How to remove list items
Copy a List	How to copy a list
Join Two Lists	How to join two lists
Tuple	A tuple is an ordered, and unchangeable, collection
Access Tuple Items	How to access items in a tuple
Change Tuple Item	How to change the value of a tuple item
Loop List Items	How to loop through the items in a tuple
Check if Tuple Item Exists	How to check if a specified item is present in a tuple
Tuple Length	How to determine the length of a tuple
Tuple With One Item	How to create a tuple with only one item
Remove Tuple Items	How to remove tuple items
Join Two Tuples	How to join two tuples
<u>Set</u>	A set is an unordered, and unchangeable, collection
Access Set Items	How to access items in a set
Add Set Items	How to add items to a set
Loop Set Items	How to loop through the items in a set
Check if Set Item Exists	How to check if a item exists
Set Length	How to determine the length of a set
Remove Set Items	How to remove set items
Join Two Sets	How to join two sets
<u>Dictionary</u>	A dictionary is an unordered, and changeable, collection
Access Dictionary Items	How to access items in a dictionary
Change Dictionary Item	How to change the value of a dictionary item
Loop Dictionary Items	How to loop through the items in a tuple
Check if Dictionary Item Exists	How to check if a specified item is present in a dictionary
<u>Dictionary Length</u>	How to determine the length of a dictionary
Add Dictionary Item	How to add an item to a dictionary
Remove Dictionary Items	How to remove dictionary items
Copy Dictionary	How to copy a dictionary
Nested Dictionaries	A dictionary within a dictionary
If Statement	How to write an if statement
If Indentation	If statemnts in Python relies on indentation (whitespace at the beginning of a line)
<u>Elif</u>	elif is the same as "else if" in other programming languages
<u>Else</u>	How to write an ifelse statement
Shorthand If	How to write an if statement in one line
Shorthand If Else	How to write an ifelse statement in one line
<u>If AND</u>	Use the and keyword to combine if statements
<u>If OR</u>	Use the or keyword to combine if statements
Nested If	How to write an if statement inside an if statement
The pass Keyword in If	Use the pass keyword inside empty if statements
While	How to write a while loop
While Break	How to break a while loop
While Continue	How to stop the current iteration and continue wit the next
While Else	How to use an else statement in a while loop
<u>For</u>	How to write a for loop
Loop Through a String	How to loop through a string
<u>For Break</u>	How to break a for loop

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<u>Create an Iterator</u> How to create an iterator		
StopIteration How to stop an iterator		
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Global Keyword The global keyword makes the variable global	Global Keyword	The global keyword makes the variable global

Variables in Modules Renaming a Module Built-in Modules Using the dir() Function Import From Module Datetime Module How to import only parts from a module Datetime Module Datetime Module Date Output Create a Date Object How to create a date object How to output a date Other Format Codes JSON How to work with JSON in Python Date Format Codes JSON How to convert a Python Object into JSON Format JSON How to convert a Python Object into JSON Format JSON How to format JSON output with indentations and line breaks Sort JSON How to sort JSON Regex Module How to import the regex module Regex Functions Metacharacters in Regex Metacharacters are characters with a special meaning Regex Sets A set is a set of characters inside a pair of square brackets with a special meaning Regex Match Object The Match Object is an object containing information about the search and the result Install PIP PIP Packages How to remove a package with PIP PIP Remove Package How to handle errors in Python How to set the sleek evyword in a try statement How to use the ficially keyword in a try statement How to use the ficially keyword in a try statement How to use the ficially keyword in a try statement How to use the ficially keyword in a try statement How to use the ficially keyword in a try statement How to use the ficially keyword in a try statement How to use the ficially keyword in a try statement	Create a Module	How to create a module
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Tiow to use the finally keyword in a try statement	Try Finally	How to use the finally keyword in a try statement
raise How to raise an exception in Python	<u>raise</u>	How to raise an exception in Python

ArithmeticError	Raised when an error occurs in numeric calculations
AssertionError	Raised when an assert statement fails
AttributeError	Raised when attribute reference or assignment fails
Exception	Base class for all exceptions
EOFError	Raised when the input() method hits an "end of file" condition (EOF)
FloatingPointError	Raised when a floating point calculation fails
GeneratorExit	Raised when a generator is closed (with the close() method)
ImportError	Raised when an imported module does not exist
IndentationError	Raised when indendation is not correct
IndexError	Raised when an index of a sequence does not exist
KeyError	Raised when a key does not exist in a dictionary
KeyboardInterrupt	Raised when the user presses Ctrl+c, Ctrl+z or Delete
LookupError	Raised when errors raised cant be found
MemoryError	Raised when a program runs out of memory
NameError	Raised when a variable does not exist
NotImplementedError	Raised when an abstract method requires an inherited class to override the method
OSError	Raised when a system related operation causes an error
OverflowError	Raised when the result of a numeric calculation is too large
ReferenceError	Raised when a weak reference object does not exist
RuntimeError	Raised when an error occurs that do not belong to any specific expections
StopIteration	Raised when the next() method of an iterator has no further values
SyntaxError	Raised when a syntax error occurs
TabError	Raised when indentation consists of tabs or spaces
SystemError	Raised when a system error occurs
SystemExit	Raised when the sys.exit() function is called
TypeError	Raised when two different types are combined
UnboundLocalError	Raised when a local variable is referenced before assignment
UnicodeError	Raised when a unicode problem occurs
UnicodeEncodeError	Raised when a unicode encoding problem occurs
UnicodeDecodeError	Raised when a unicode decoding problem occurs
UnicodeTranslateError	Raised when a unicode translation problem occurs
ValueError	Raised when there is a wrong value in a specified data type
ZeroDivisionError	Raised when the second operator in a division is zero

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