

Python

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Python Keywords

https://www.w3schools.com/python/python_ref_keywords.asp

and	A logical operator
as	To create an alias
assert	For debugging
break	To break out of a loop
class	To define a class
continue	To continue to the next iteration of a loop
def	To define a function
del	To delete an object
elif	Used in conditional statements, same as else if
else	Used in conditional statements
except	Used with exceptions, what to do when an exception occurs
False	Boolean value, result of comparison operations
finally	Used with exceptions, a block of code that will be executed no matter if there is
for	To create a for loop
from	To import specific parts of a module
global	To declare a global variable
if	To make a conditional statement
import	To import a module
in	To check if a value is present in a list, tuple, etc.
is	To test if two variables are equal
lambda	To create an anonymous function
None	Represents a null value
nonlocal	To declare a non-local variable
not	A logical operator
or	A logical operator
pass	A null statement, a statement that will do nothing
raise	To raise an exception
return	To exit a function and return a value
True	Boolean value, result of comparison operations
try	To make a try...except statement
while	To create a while loop
with	Used to simplify exception handling
yield	To end a function, returns a generator

Built-in Exceptions

https://www.w3schools.com/python/python_ref_exceptions.asp

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 indentation 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 expectations
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

Python Glossary

https://www.w3schools.com/python/python_ref_glossary.asp

Indentation	Indentation refers to the spaces at the beginning of a code line
Comments	Comments are code lines that will not be executed
Multi Line Comments	How to insert comments on multiple lines
Creating Variables	Variables are containers for storing data values
Variable Names	How to name your variables
Assign Values to Multiple Variables	How to assign values to multiple variables
Output Variables	Use the print statement to output variables
String Concatenation	How to combine strings
Global Variables	Global variables are variables that belongs to the global scope
Built-In Data Types	Python has a set of built-in data types
Getting Data Type	How to get the data type of an object
Setting Data Type	How to set the data type of an object
Numbers	There are three numeric types in Python
Int	The integer number type
Float	The floating number type
Complex	The complex number type
Type Conversion	How to convert from one number type to another
Random Number	How to create a random number
Specify a Variable Type	How to specify a certain data type for a variable
String Literals	How to create string literals
Assigning a String	to a Variable. how to assign a string value to a variable
Multiline Strings	How to create a multi line string
Strings are Arrays	Strings in Python are arrays of bytes representing Unicode characters
Slicing a String	How to slice a string
Negative Indexing	on a String How to use negative indexing when accessing a string
String Length	How to get the length of a string
Check In String	How to check if a string contains a specified phrase
Format String	How to combine two strings
Escape Characters	How to use escape characters
Boolean Values	True or False
Evaluate Booleans	Evaluate a value or statement and return either True or False
Return Boolean Value	Functions that return a Boolean value
Operators	Use operator to perform operations in Python
Arithmetic Operators	Arithmetic operator are used to perform common mathematical operations
Assignment Operators	Assignment operators are use to assign values to variables
Comparison Operators	Comparison operators are used to compare two values
Logical Operators	Logical operators are used to combine conditional statements
Identity Operators	Identity operators are used to see if two objects are in fact the same object
Membership	Operators Membership operators are used to test is a sequence is present
Bitwise Operators	Bitwise operators are used to compare (binary) numbers
Lists	A list is an ordered, and changeable, collection
Access List Items	How to access items in a list
Change List Item	How to change the value of a list item
Loop Through List Items	How to loop through the items in a list
Check if List Item Exists	How to check if a specified item is present in a list
List Length	How to determine the length of a list

Add List Items	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
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
Set	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
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
Dictionary	A dictionary is an unordered, and changeable, collection
Loop Dictionary Items	How to loop through the items in a tuple
Dictionary Length	How to determine the length of a dictionary
Add Dictionary Item	How to add an item to a dictionary
Remove Dir. 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
Elif	elif is the same as "else if" in other programming languages
Else	How to write an if...else statement
Shorthand If	How to write an if statement in one line
Shorthand If Else	How to write an if...else statement in one line
If AND	Use the and keyword to combine if statements
If OR	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
For	How to write a for loop
Loop Through String	How to loop through a string
For Break	How to break a for loop
For Continue	How to stop the current iteration and continue wit the next
For Else	How to use an else statement in a for loop
Nested Loops	How to write a loop inside a loop
For pass	Use the pass keyword inside empty for loops
Function	How to create a function in Python
Call a Function	How to call a function in Python
Function Arguments	How to use arguments in a function
Keyword	Arguments How to use keyword arguments in a function
*kwargs	To deal with an unknown number of keyword arguments in a function, use

Function Recursion	Functions that can call itself is called recursive functions
Lambda Function	How to create anonymous functions in Python
What is an Array	Arrays are variables that can hold more than one value
Access Arrays	How to access array items
Array Length	How to get the length of an array
Looping	How to loop through array elements
Add Array Element	How to add elements from an array
Remove Array	How to remove elements from an array
Array Methods	Python has a set of Array/Lists methods
Class	A class is like an object constructor
Create Class	How to create a class
self	The self parameter refers to the current instance of the class
Class pass Statement	Use the pass statement in empty classes
Create Parent Class	How to create a parent class
Create Child Class	How to create a child class
Add Class Properties	How to add a property to a class
Add Class Methods	How to add a method to a class
Iterators	An iterator is an object that contains a countable number of values
Iterator vs Iterable	What is the difference between an iterator and an iterable
Create an Iterator	How to create an iterator
StopIteration	How to stop an iterator
Global Scope	When does a variable belong to the global scope?
Global Keyword	The global keyword makes the variable global
Create a Module	How to create a module
Variables in Modules	How to use variables in a module
Renaming a Module	How to rename a module
Built-in Modules	How to import built-in modules
Import From Module	How to import only parts from a module
Datetime Module	How to work with dates in Python
Date Output	How to output a date
Create a Date Object	How to create a date object
The strftime Method	How to format a date object into a readable string
Date Format Codes	The datetime module has a set of legal format codes
JSON	How to work with JSON in Python
Parse JSON	How to parse JSON code in Python
Convert into JSON	How to convert a Python object in to 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	The re module has a set of functions
RegEx Match Object	The Match Object is an object containing information about the search
Install PIP	How to install PIP