

Python Cheat Sheet: Keywords

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Keyword	Description	Code example
<code>False, True</code>	Data values from the data type Boolean	<code>False == (1 > 2), True == (2 > 1)</code>
<code>and, or, not</code>	Logical operators: (<code>x and y</code>) → both x and y must be True (<code>x or y</code>) → either x or y must be True (<code>not x</code>) → x must be false	<pre>x, y = True, False (x or y) == True # True (x and y) == False # True (not y) == True # True</pre>
<code>break</code>	Ends loop prematurely	<pre>while(True): break # no infinite loop print("hello world")</pre>
<code>continue</code>	Finishes current loop iteration	<pre>while(True): continue print("43") # dead code</pre>
<code>class</code> <code>def</code>	Defines a new class → a real-world concept (object oriented programming) Defines a new function or class method. For latter, first parameter (“self”) points to the class object. When calling class method, first parameter is implicit.	<pre>class Beer: def __init__(self): self.content = 1.0 def drink(self): self.content = 0.0 becks = Beer() # constructor - create class becks.drink() # beer empty: b.content == 0</pre>
<code>if, elif, else</code>	Conditional program execution: program starts with “if” branch, tries the “elif” branches, and finishes with “else” branch (until one branch evaluates to True).	<pre>x = int(input("your value: ")) if x > 3: print("Big") elif x == 3: print("Medium") else: print("Small")</pre>
<code>for, while</code>	<pre># For loop declaration for i in [0,1,2]: print(i)</pre>	<pre># While loop - same semantics j = 0 while j < 3: print(j) j = j + 1</pre>
<code>in</code>	Checks whether element is in sequence	<code>42 in [2, 39, 42] # True</code>
<code>is</code>	Checks whether both elements point to the same object	<pre>y = x = 3 x is y # True [3] is [3] # False</pre>
<code>None</code>	Empty value constant	<pre>def f(): x = 2 f() is None # True</pre>
<code>lambda</code>	Function with no name (anonymous function)	<code>(lambda x: x + 3)(3) # returns 6</code>
<code>return</code>	Terminates execution of the function and passes the flow of execution to the caller. An optional value after the return keyword specifies the function result.	<pre>def incrementor(x): return x + 1 incrementor(4) # returns 5</pre>