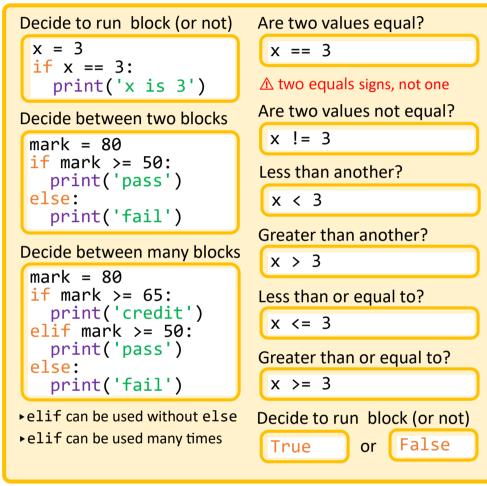
Python beginners cheatsheet



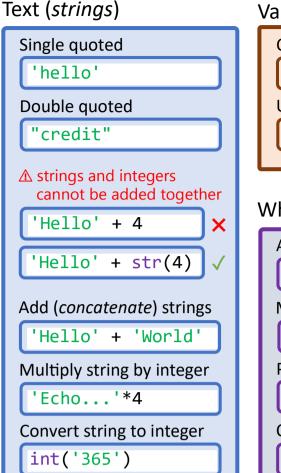
nteract with the user (<i>input</i> and <i>output</i>)		
Print a message		
<pre>print('Hello, world!')</pre>		
Print values using an f-string		
<pre>ndays = 365 print(f'There are {ndays} in a year')</pre>		
Asking the user for a string		
<pre>name = input('What is your name? ')</pre>		
Asking the user for a whole number (an integer)		
<pre>num = int(input('Enter a number: '))</pre>		

Decide between options



String manipulation

Compare two strings	Get numeric representation
<pre>msg = 'hello' if msg == 'hello': print('howdy')</pre>	ord('a')
	Decode number to character
Is a string in another string?	chr(97)
<pre>if 'how' in msg: print('try')</pre>	Get first character in a string
Not in another string?	msg[0]



Variables Creating a variable Celsius = 25 Using a variable Celsius*9/5 + 32 Whole numbers (*integers*) Addition and subtraction 365 + 1 - 2

Multiplication and division 25*9/5

Powers (2 to the power of 8)

Convert integer to string str(365)

2**8

Repeat a block (a fixed number of times)

Repeat a block 10 times	Count from 0 to 9
<pre>for i in range(10): print(i)</pre>	range(10)
	\triangle range starts from 0 and goes
Sum the numbers 0 to 9	up to, <i>but not including</i> , 10
<pre>total = 0 for i in range(10): total = total + i print(total)</pre>	Count from 1 to 10
	range(1, 11)
Repeat a block over a string	Count from 10 down to 1
for letter in 'word':	range(10, 0, -1)
print(letter)	Count 2 at a time to 10
• each repeat is called an <i>iteration</i>	range(0, 11, 2)

Functions and comments

Defining a function	Functions with parameters
<pre>def hello(): print('hello')</pre>	<pre>def multiply(a, b): return a*b</pre>
Calling a function	Passing in arguments
hello()	<pre>multiply(1, 2)</pre>

