

# Python Toolbox Cheat Sheet

by TeunR via cheatography.com/213749/cs/46548/

Data Types		
Text Type	str; str()	'I'm a string'
Numeric Types	int; int()	10
	float; float()	10.3
Boolean Type	bool	True/False
Sequence Types	list; list()	[1, 2, 'a', 'b']
	tuple; tuple()	(1, 2, 3)
	range	range(4)
Set Type	set; set()	{1, 2, 3}
Mapping Type	dict; dict()	{1:'a', 2:'b', 3:'c'}

В			

#### **Booleans as Numbers**

True==1 False==0

## Comparison Operators

a==b	is <i>a</i> equal to <i>b</i> ?	a!=b	is a different than b?
a <b< td=""><td>is a less than b?</td><td>a&lt;=b</td><td>is a less than or equal to b?</td></b<>	is a less than b?	a<=b	is a less than or equal to b?
a>b	is a greater than	a>=b	is a greater than or equal to
	<i>b</i> ?		<i>b</i> ?

#### Membership and Identity Operators

a in b	is a in b?	a is b	are a and b the same	
			object?	
a not in	is a not in h?	a is not	are a and b different	

## **Boolean Operators**

b

not	returns False if operand is True, True otherwise
and	returns True if Both operands are True, False otherwise
or	returns False if both operands are False, True otherwise
^ (xor)	returns <i>False</i> if both or neither operands are False, <i>True</i> otherwise

objects?

Operator Precedence			
1.	()	Parentheses are evaluated first	
2.	**	Exponent	
3.	+, -	unary + and - signs (e.g., -x)	
4.	*, /, //, %	multiplication, division, floor division, and modulo	
5.	+, -	Addition, subtraction	
6.	٨	Bitwise XOR	
7.	in, not in, is, is not, <, <=, >, >=, !=, ==	Comparison, identity, and membership operators	
8.	not	logical NOT	
9.	and	Logical AND	
10.	or	logical OR	

#### **Print Function**

print('a', 'b', sep='\*')

#### **Decision Structure**

```
if n == 0:
    print( "n is zero")
elif n > 0:
    print( "n is strictly positi ve")
else: # n < 0
    print( "n is strictly negati ve")</pre>
```

a\*b

## **Repetition Structures**

```
n = 0
while n < 4
  print(n)
  n += 1
print( "n =", n)
# output is: 0 | 1 | 2 | 3 | n = 4
for i in range(4):
  print(i)
print( "i =", i)
# output is: 0 | 1 | 2 | 3 | i = 3</pre>
```



Not published yet. Last updated 3rd June, 2025. Page 1 of 2. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours!

https://apollopad.com



# Python Toolbox Cheat Sheet by TeunR via cheatography.com/213749/cs/46548/

Exceptions	
try:	Built-in Exceptions
# run this code	FileNotFoundError
except NameOf Err orT ype1:	IndexError
# handle error type 2	KeyError
except NameOf Err orT ype2:	ModuleNotFoundError
# handle error type 2	NameError
except:	SyntaxError
# handle any other error	TypeError
else:	ValueError
# run this code if no error	ZeroDivisionError
finally:	
# always run this code	

## NumPy

import numpy as np

### Creating arrays

Creating arrays	
np.array([1,2,3])	Convert python list to NumPy array
np.arange(1,5)	Return sequence from start (incl.) to end (excl.)
np.arange(1,5,2)	Return stepped sequence from start (incl.) to end (excl.)
np.repeat([1,3,- 6],3)	Repeat values n times: [1,1,1,3,]
np.tile([1,3,6],3)	Repeat values n times: [1,3,6,1,]

#### Math functions and methods

All functions take an array as the input



By **TeunR** cheatography.com/teunr/

Not published yet. Last updated 3rd June, 2025. Page 2 of 2. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours!
https://apollopad.com