

Python 3 Cheat Sheet

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Data Types		
Integer	22, -10, 99	
Float	2.2, 42.3, -1.1	
String	"Hello", 'single quotes also works'	
Boolean	True, 1, False, 0	
List	[value, value value,]	
Tuple	(value, value, walue,)	
Dictionary	{key:value, key:value,}	

Operators	
x + y	Addition
x-y	Subtraction
x * y	Multiplication
x/y	Division
х % У	Modulo
x**y	Exponentiation

Conditions	
<	Less than
>	Greater than
==	Equals
<=	Less than or equal to
>=	Greater than or equal to
!=	Not equal to
in	Contains
not in	Does not contain

Output

Common Functions		
int()	Force an integer data type	
float()	Force a float data type	
str()	Force a string data type	
input()	Collect user input	
len()	Returns the length	
min()	Returns the minimum value	
max()	Returns the maximum value	
list()	Converts to a list	
type()	Returns the data type (string, float, int, etc)	

try: # this code will execute except: # but on an error

this code executes

Shebang

#!/usr/bin/env python3

Defining Functions

def a3funct(param1, param2):
 magic = param1 + param2
 return magic

if, else if, else

```
if (condition):
    # This code will execute
elif (condition):
    # This code will execute
else:
    # This code executes
```

for and while Loops

```
# for-loop
myIterator = [1,2,3]
for x in myIterator:
    print(x)

# while-loop
x = 0
while x < 5:
    print("x: {}".format(x))
    x += 1 # same as x = x+1</pre>
```

Docstrings & Comments

```
"""

Docstrings can be
Multi-line
"""

# Always comment code
```

Running External Programs

```
# Issue command(s) to
# underlying OS
import os
os.system(<command>)
```

Reading and Writing Files

```
# read from a file
f = open(<path>,'r')
f.read(<size>)
f.readline(<size>)
f.close()

# write to a file
g = open(<path>,'w')
g.write(<str>)
g.close()
```