Cheatography

Python 3 Basics Cheat Sheet Cheat Sheet by trashstuff via cheatography.com/34979/cs/10983/

Operators	
Assignment	=
Arithmetic	+, -, *, /, %
Comparison	>, >=, <, <=, ==, !=
Logical	not, and, or

String operations (strin	g s)
s.count(substring)	Count occurences
s.find(substring)	Index of first occurence
s.join(sequence)	Concatenate sequence
<pre>s.plit([deilimite rl)</pre>	Split into list

List operations (list I, element e)	
1.append(e)	Add e
1.remove	Remove e
1.pop(e)	Remove and return e
1.count(e)	Count occurences
1.reverse()	Reverse I
1.sort()	Sort I

Dictionary operations (dict d, key k)	
d.clear	Clear d
d.get(k)	Return d[k]
d.keys()	Return keys in d
d.values()	Return values in d
d.items()	Return key-value pairs in d

File operations (file f)	
f = open(path)	Open file at path as f
f.read()	Read f
f.readline()	Read line from f
f.readlines()	Return list of lines in f
f.write(s)	Write s to f

File operations (file f) (cont)	
f.close()	Close f
When using: with open(path) as f: the file gets opened as leaving the "with" state	

Base functions	
<pre>int(), float(), str(), bool()</pre>	Type casting
len(data)	Return length of data
min(values), max(values)	Minimum / Maximum
pow(x, y, [z])	x to the power y [mod z]
<pre>range(start, stop, [step])</pre>	Ordered list
<pre>input(), print()</pre>	Console input/ output
filter(function, iterable)	Filter iterable
<pre>map(function, iterable)</pre>	Map function onto iterable
id(object)	Unique object ID
round(n, [x])	Round n [x decimal places]

create your own functions with:
def functioname:

Control flow	
<pre>if(cond): <code> else: <code></code></code></pre>	If-else statement
<pre>if(cond): <code> elif(cond): <code> else: <code></code></code></code></pre>	If-elseif- else statement
<pre>for i in range([start], stop, [step]): <code></code></pre>	For loop over range
for i in items: <code></code>	For loop over iterable

Control flow (cont)	
while(cond): <code></code>	While loop
break	Exit loop
continue	Skip to next iteration

Object-oriented	
class Person:	Class definition
<pre>x = Person(age, height)</pre>	Object creation
x.age	Filed access
x.birthday()	Method access

List comprehensions
List comprehensions can be used to generate lists with the use of functions in just one line
S = [x**2 for x in range(10)]
M = [x for x in S if x % 2 == 0]
<pre>noprimes = [j for i in range(2, 8) for j in range(i*2, 50, i)]</pre>
<pre>primes = [x for x in range(2, 50) if x not in noprimes]</pre>
[2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47]

Module Import	
import module	Imports a module
import module as x	Imports a module as x
from module import submodule	Imports specific submodule



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