Cheatography

Python 3 Beginner's Reference Cheat Sheet

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Operators

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

String operations (string s)

`s.coun t(s ubs tring )`	Count occurences
`s.find (su bst ring)`	Index of first occurence
`s.join (se quence)`	Concatenate sequence
`s.spli t([ del imi t er])`	Split into list

List operations (list l, element e)

`l.appe nd(e)`	Add e
`l.remo ve(e)`	Remove e
`l.pop(e)`	Remove and return e
`l.count(e)`	Count occurences
`l.reve rse()`	Reverse l
`l.sort()`	Sort l

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 f
`f.read()`	Read f
`f.read line()`	Read line from f
`f.read lines()`	Return list of lines in f
`f.write(s)`	Write s to f
`f.close()`	Close f

In-built functions

`int(), float(), str(), bool()...`	Type casting
`len(data)`	Length
`min(va lues), max(va lues)`	Minimum / Maximum
`pow(x,y, [z])`	X to the power Y [mod Z]
`range( start, stop, [step] )`	Ordered list
`input(), print()`	Console Input/-Output
`filter (fu nction, array)`	Filter array
`map(fu nction, array)`	Map function onto array
`id(object)`	Unique object ID
`round(n, [x])`	Round n [x decimal places]

Module import

```
import module
from module import submodule
```

Control Flow

Useful standard library modules

`math, numpy, sc ipy`	Math
`matplotlib`	Graph plotting
`random`	Random generators
`datetime`	Date and time
`timeit`	Performance
`re`	Regular expressions
`os`	OS interaction
`sys`	stdin, stdout, stderr, version
`urllib`	Internet access
`zlib`	Data compression

Object-oriented

`class Person:`	Class definition
`x = Person (age, height )`	Object creation
`x.age`	Field access
`x.birt hday()`	Method access

`if(cond): <co de> else: <co de>`	If-else
`if(cond1): <co de> elif(c ond1): <co de> else: <co de>`	If-elif-else
`for i in range( [st art], stop, [step]): <co de>`	For loop over range
`for i in items: <co de>`	For loop over iterable
`while( con dit ion): <co de>`	While loop
`break`	Exit first enclosing loop
`continue`	Skip to next iteration

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