

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

String operations (string s)	
s.count(substring)	Count occurrences
s.find(substring)	Index of first occurrence
s.join(sequence)	Concatenate sequence
s.split([delimiter])	Split into list

List operations (list l, element e)	
l.append(e)	Add e
l.remove(e)	Remove e
l.pop(e)	Remove and return e
l.count(e)	Count occurrences
l.reverse()	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.readline()	Read line from f
f.readlines()	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(values), max(values)	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(function, array)	Filter array
map(function, 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	
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Useful standard library modules	
math, numpy, scipy	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.birthday()	Method access

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



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Page 1 of 2.

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