Python Quick Reference

OPERATOR PRECEDENCE IN EXPRESSIONS

Operator	Description	Α
`expr,`	String conversion	NA
{key:expr,}	Dictionary creation	NA
[expr,]	List creation	NA
(expr,)	Tuple creation or simple parentheses	NA
f(expr,)	Function call	L
x[index:index]	Slicing	L
x[index]	Indexing	L
x.attr	Attribute reference	L
x**y	Exponentiation (x to yth power)	R
~X	Bitwise NOT	NA
+X, -X	Unary plus and minus	NA
x*y, x/y, x//y, x%y	Multiplication, division, remainder	L
x+y, x-y	Addition, subtraction	L
x< <y, x="">>y</y,>	Left-shift, right-shift	L
x&y	Bitwise AND	L
x^y	Bitwise XOR	L
x y	Bitwise OR	L
x < y, $x <= y$, $x > y$, $x >= y$	Comparisons	С
x <> y, $x! = y$, $x == y$	Equality/inequality tests*	С
x is y, x is not y	Identity tests	С
x in y, x not in y	Membership tests	С
not x	Boolean NOT	NA
x and y	Boolean AND	L
x or y	Boolean OR	L
lambda arg,: expr	Anonymous simple function	NA

^{*} x!=y and x<>y are the same inequality test (!= is the preferred form, <> obsolete) A – Associativity L – Left R - Right C - Chaining NA - Not associative

LIST OBJECT METHODS

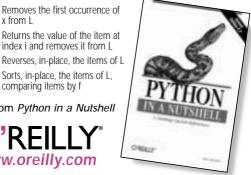
Operator	Description	
L.count(x)	Returns the number of occurrences of x in I	-
L.index(x)	Returns the index of the first occurrence of exception if L has no such item	x in L or raises an
L.append(x)	Appends x to the end of L	
L.extend(I)	Appends all the items of list I to the end of L	
L.insert(i,x)	Inserts x at index i in L	_
L.remove(x)	Removes the first occurrence of x from L	40
L.pop(i=-1)	Returns the value of the item at index i and removes it from I	10

Excerpted from Python in a Nutshell

L.reverse() L.sort(f=cmp)



Sorts, in-place, the items of L, comparing items by f



Python Quick Reference

COMMON FILE OPERATIONS

Interpretation

Operation

output.close()

Operation

output = open('/tmp/spam', 'w')	Create output file ('w' means write).
input = open('data', 'r')	Create input file ('r' means read).
S = input.read()	Read entire file into a single string.
S = input.read(N)	Read N bytes (1 or more).
S = input.readline()	Read next line (through end-line marker).
L = input.readlines()	Read entire file into list of line strings.
output.write(S)	Write string S into file.
output.writelines(L)	Write all line strings in list L into file.

COMMON DICTIONARY LITERALS AND OPERATIONS

Interpretation

collected).

Manual close (done for you when file

D1 = { }	Empty dictionary
D2 = {'spam': 2, 'eggs': 3}	Two-item dictionary
D2['eggs']	Indexing by key
D2.has_key('eggs'), 'eggs' in D2	membership test
D2.keys(), D2.values(), D2.items()	lists of keys, values, items
D2.copy(), D2.update(D1)	shallow copy, dict merging
D2.get(key, default=None)	"indexing" w/default value
len(D1)	Length (number stored entries)
D2[key] = 42	Adding/changing,
del D2[key]	deleting
D4 = dict(zip(keyslist, valslist))	Construction

COMMON TUPLE LITERALS AND OPERATIONS

Operation	Interpretation	
()	An empty tuple	
T1 = (0,)	A one-item tuple (not an expression)	
T2 = (0, 'Ni', 1.2, 3)	A four-item tuple	
T2 = 0, 'Ni', 1.2, 3	Another four-item tuple (same as prior line)	
T1[i]	Indexing	
T1[i:j]	slicing	
len(t1)	length (number of items)	
T1 + T2	Concatenation	
T2 * 3	repetition	
for x in T2	Iteration	
3 in T2	member-	

Excerpted from Learning Python, 2nd Edition



