

Python 3.1 Quick Reference

available at http://pedrokroger.net/python-quick-reference.html

Built-in functions

abs(x)

all(iter)

any(iter)

ascii(obj)

bin(x)

bool(/x/)

bytearray([arg, [encoding, [errors]]])

bytes([arg, [encoding, [errors]]])

 $\mathsf{chr}(\mathit{i})$

classmethod(fn)

compile(source, filename, mode)

complex(real, [imag])

dict([arg])

dir([object])

divmod(x, y)

enumerate(iter, start=0)

eval(source, [globals, [locals]])

 $filter(\mathit{fn},\mathit{iter})$

float([x])

format(alue, [format_spec])

frozenset([iter])

getattr(object, name, [default])

globals()

hasattr(object, name)

 $hash(\mathit{object})$

help([object])

hex(x)

id(object)

input([prompt])

 $\verb"int"([number \mid string, [base]])"$

 $\verb|isinstance|| (object, classinfo)|$

 $\verb"issubclass" (\textit{class, classinfo})$

 $\verb|iter|(object, sentinel|)$

len(object)

list([iter])

locals()

map(func, iter, ...)

max(*iter*, [*args...*], *, [*key*])

memoryview(obj)

min(*iter*, [args...], *, [key])

next(iterator, [default])

object()

oct(number)

open(file, **keys)

ord(c)

pow(x, y, [z])

print([obj,..., sep, end, file])

property(**keys)

range([start,] stop, [step])

repr(object)

reversed(sequence)

round(*x*, [*n*])

set(iter)

 ${\tt setattr}(object, name, value)$

slice([start], stop, [step])

sorted(iter, [key], [reverse])

staticmethod(unction)

str([object, [encoding, [errors]]])

sum(terable, [start])

super([type, [object-or-type]])

tuple([iter])

type(object)

type(name, bases, dict)

vars([object])

zip(*iters)

Built-in constants

False, True, None Ellipsis, NotImplemented

Boolean operations

not x

x or y

x and y

Comparisons

x < y

x <= y

x > y

x >= y

x == y

x != y

x is y

x is not y

x < y < z

Numeric operations

x + y sum

x - y subtraction

x * y multiplication

x / y quotient

x // y floored quotient

x % y remainder -x negation

+x identity

x ** y x to the power y

Bit-string Operations

x | y or

x & y and

x ^ y exclusive or x << n bitwise left-shift

x >> n right-shift

~x bitwise invert (integers)

Extended Assignment

x += y x /= y

x &= y x >>= y

x -= y x %= y

x ^= y x //= y

Sequence Assignment

w = [1, 2, 3, 4]

a, *b = w (1, [2, 3, 4])

a, *b, c = w (1, [2, 3], 4)

Sequence Operations

x in s membership

x not in s membership

s + t concatenation

s * n, n * s copy s n times

s[n] nth item of s s[i:j] from i to j

s[i:j:k] from i to j, step k

Slice examples

s = ['a', 'b', 'c']

s[0] 'a' first s[-1] 'c' last

s[1:] ['b', 'c'] rest

s[:-1] ['a', 'b'] butlast

Float methods

float.as_integer_ratio()

float.hex()

float.fromhex(s)

List methods

append(obj)
extend(iter)
count(value)
index(value, [start, [stop]])
insert(pos, obj)
pop([index])
remove(value)
reverse()
sort(key=None, reverse=False)

String methods

capitalize() center(width, [fillchar]) count(sub, [start, [end]]) decode([encoding, [errors]]) encode([encoding[,errors]]) endswith(suffix, [start, [end]]) expandtabs([tabsize]) find(sub, [start, [end]]) format(*args, **kwargs) index(sub, [start, [end]]) isalnum() isalpha() isdigit() islower() isspace() istitle() isupper() ioin(iterable) ljust(width, [fillchar]) lower() lstrip(/chars/) partition(sep) replace(old, new, [count]) rfind(sub [,start [,end]]) rindex(sub, [start, [end]]) rjust(width, [fillchar]) rpartition(sep) rsplit([sep [,maxsplit]])

rstrip(/chars/)

split([sep, [maxsplit]])
splitlines([keepends])
startswith(prefix, [start, [end]])
strip([chars])
swapcase()
title()
translate(table, [deletechars])
upper()
zfill(width)

Set methods

add(elem)

clear() copy() difference(other,...) difference_update(other,...) discard(elem) intersection(other,...) intersection_update(other,...) isdisjoint(*other*) issubset(other) issuperset(other) pop() remove(*elem*) symmetric_difference(other) symmetric_difference_update(other) union(other....) update(*other*,...)

Dictionary methods

clear()
copy()
fromkeys(seq, [value])
get(key, [default])
items()
keys()
popitem()
pop(key, [default])
setdefault(key, [default])
update([other])
values()

File methods

close()
flush()
fileno()
isatty()
next()
read([size])
readlines([size])
readlines([sizehint])
xreadlines()
seek(offset, [whence])
tell()
truncate([size])
write(str)
writelines(sequence)

From future (python 2.6)

from __future__ import <f>
absolute_import PEP 328
division PEP 238
print_function PEP 3105
unicode_literals PEP 3112

Keywords (keyword.kwlist)

False None True and as assert break class continue def del in elif else except finally for is from global if import lambda nonlocal not or pass raise return try while with yield

Built-in exceptions

BaseException
SystemExit
KeyboardInterrupt
GeneratorExit
Exception
StopIteration

BaseException AssertionError AttributeError BufferError ArithmeticError _FloatingPointError _OverflowError ___ ZeroDivisionError EnvironmentError _I0Error 0SError _WindowsError (Windows) ___ VMSError (VMS) E0FError ImportError LookupError IndexError __ KeyError MemoryError NameError UnboundLocalError ReferenceError RuntimeError NotImplementedError SyntaxError __ IndentationError TabError SystemError _ TypeError ValueError _UnicodeError UnicodeDecodeError UnicodeEncodeError UnicodeTranslateError Warning DeprecationWarning PendingDeprecationWarning RuntimeWarning SyntaxWarning UserWarning FutureWarning _ ImportWarning _UnicodeWarning BytesWarning