#### **Built-in functions**

abs(x)all(*iter*) any(iter) ascii(obj) bin(x)bool(/x/)bytearray([arg, [encoding, [errors]]]) bytes([arg, [encoding, [errors]]])

chr(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(fn, iter) float(/x/)

format(alue, [format\_spec])

frozenset([iter])

getattr(object, name, [default])

globals()

hasattr(object, name)

hash(object) help([object])

hex(x)id(object)

input([prompt])

int([number | string, [base]])

isinstance(object, classinfo)

issubclass(class, classinfo)

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) 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 < yx <= y x > yx >= y x == y x != yx is v x is not y x < y < z

### **Numeric operations**

x + ysum x - y subtraction multiplication x \* yx / yquotient floored quotient x // y remainder x % y - X negation identity +x x to the power y

## **Bit-string Operations**

x | y and х & у and x ^ v exclusive or bitwise left-shift x << n right-shift x >> n ~X bitwise invert (integers)

### **Extended Assignment**

x += y x /= y x &= v x >>= y x -= v x %= v  $x \mid = y$ x <<= y x \*= y x \*\*= y x ^= y x //= y

## **Sequence Assignment**

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

### **Sequence Operations**

x in s membership x not in s membership s + tconcatenation s \* n, n \* scopy s n times nth item of s s[n] s[i:i] from i to i s[i:j:k] from i to j, step k

### Slice examples

s = ['a', 'b', 'c'] s[0] 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(kev=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() join(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)

### **Dictionary methods**

union(other...)

update(other,...)

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
OSError
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
<pre>PendingDeprecationWarning</pre>
RuntimeWarning
SyntaxWarning
UserWarning
FutureWarning
ImportWarning
UnicodeWarning
BytesWarning