



# python Cheat Sheet



## Math

### Number Theoretic

```
ceil(x)    copysign(x,y)
fabs(x)    factorial(x)
floor(x)    fmod(x,y)
frexp(x)    fsum(iterable)
isinf(x)    isnan(x)
ldexp(x,l)    modf()    trunc()
```

### Power & Logarithmic

```
exp(x)    log(x[, base])
log1p(x)    log10(x)
pow(x,y)    sqrt(x)
```

### Trigonometric Functions

```
acos(x)    asin(x)    atan(x)
atan2(y,x)    cos(x)    hypot(x,y)
sin(x)    tan(x)
```

### Angular Conversion

```
degrees(x)    radians(x)
```

### Hyperbolic Functions

```
acosh(x)    asinh(x)
atanh(x)    cosh(x)
sinh(x)    tanh(x)
```

### Constants

```
math.pi
The mathematical constant of pie
= 3.141592..., up to the available
precision
math.e
The mathematical constant e =
2.718281..., up to the available
precision
```

## String Formatting

'd' Signed integer decimal    'i' Signed integer decimal    'o' Signed octal value    'u' Obsolete type - it was identical to 'd'  
 'x' Signed hexadecimal (lowercase)    'X' Signed hexadecimal (uppercase)    'e' Floating point exponential format (lowercase)  
 'E' Floating point exponential format (uppercase)    'f' Floating point decimal format    'F' Floating point decimal format  
 'g' Floating point format. Uses the lowercase exponential format if the exponent is less than -4 or not less than precision,  
 otherwise it uses the decimal format  
 'G' Floating point format. Uses the uppercase exponential format if the exponent is less than -4 or not less than precision,  
 otherwise it uses the decimal format  
 'c' Single character (accepts either integer or single character string)    'r' String (converts any Python object using repr())  
 's' String (converts any Python object using str())    '%' No argument is converted, adds a % character in the end result

## Formatting Operations

## File

### Methods

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

### Attributes

```
closed    encoding
errors    mode
name    newlines
softspace
```

## Random

### Functions

```
seed([x])    getstate()    vonmisesvariate(mu,kappa)
setstate(state)    jumpahead(n)    paretovariate(alpha)
getrandbits(k)    randint(a,b)    weibullvariate(alpha,beta)
randrange([start, stop[, step]])    lognormvariate(mu,sigma)
choice(seq)    shuffle(x[, random])    normalvariate(mu, sigma)
sample(population,k)    random()    gammenvariate(alpha,beta)
uniform(a,b)    triangular(low,high,mode)    gauss(mu,sigma)
betavariate(alpha,beta)    expovariate(lambd)
```

## OS

### OS Variables

```
altsep    Alternative separator
curdir    Current dir string
defpath    Default search path
devnull    Path of null device
extsep    Extension separator
```

```
pardir    Parent dir string
pathsep    Patch separator
sep    Path separator
name    name of OS
linesep    Line separator
```

## String

### String Methods

```
capitalize()    center(width[, fillchar])    count(sub[, start[, end]])
decode(encoding[, errors])    isalnum()
endswith(suffix[, start[, end]])    expandtabs(tabsize)
find(sub[, start[, end]])    format(*args, **kwargs)    isalpha()
index(sub[, start[, end]])    isdigit()    islower()    ispace()    istitle()
isupper()    join(iterable)    ljust(width[, fillchar])    lower()
rstrip(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()
translate(table[, deletechars])    upper()    zfill(width)
isnumeric()    isdecimal()
```

## Date Time

### Date Object

```
replace(year, month, day)    timetuple()
toordinal()    weekday()    isoweekday()
iso calendar()    isoformat()    __str__
ctime()    strftime()
```

### Time Object

```
replace(hour, minute, second, microsecond, tzinfo)
isoformat()    __str__    strftime()    utcoffset()    dst()    tzname()
```

### Datetime Object

```
date()    time()    timetz()    toordinal()    weekday()    isoweekday()    iso calendar()
replace(year, month, day, hour, minute, second, microsecond, tzinfo)
astimezone(tz)    utcoffset()    dst()    tzname()    timetuple()    utctime tuple()
isoformat()    __str__    ctime()    strftime()
```

## Class

### Special Methods

```
__new__(cls)    __lt__(self, other)    __init__(self, args)
__le__(self, other)    __del__(self)    __gt__(self, other)
__repr__(self)    __ge__(self, other)    __str__(self)
__eq__(self, other)    __cmp__(self, other)
__ne__(self, other)    __index__(self)    __nonzero__(self)
__hash__(self)    __getattr__(self, name)
__getattribute__(self, name)    __setattr__(self, name, attr)
__delattr__(self, name)    __call__(self, args, kwargs)
```

## Array

### Array Methods

```
append(x)    buffer_info()
byteswap()    count(x)
extend(iterable)    fromfile(f,n)
fromlist(list)    fromstring(s)
fromunicode(s)    index(x)
insert(i,x)    pop([i])    remove(x)
reverse()    tofile(f)    tolist()
tostring()    tounicode()
```

### Indexes & Slices

```
a=[0,1,2,3,4,5]
b=a[:]    Shallow copy of a
a[1:3]    [1,2,3,4,5]
a[5:]    [0,1,2,3,4]
a[-2:]    [0,1,2,3]    len(a)    6
a[1:3]    [1,2]    a[0]    0
a[1:-1]    [1,2,3,4]    a[5]    5
a[-1]    5
a[-2]    4
```

## SYS

### SYS Variables

```
argv    Command line args
builtin_module_names    Linked C modules
check_interval    Signal check frequency
exec_prefix    Root directory
executable    Name of Executable
exitfunc    Exit function name
modules    Loaded modules
path    Search path
```

```
platform    Current platform
stdin, stdout, stderr    File objects for I/O
version_info    Python version info
winver    Version number
```

### SYS Arg V

```
sys.argv[0]    foo.py
sys.argv[1]    bar
sys.argv[2]    -c
sys.argv[3]    qux
sys.argv[4]    -h
```

## String

### Mapping Types

```
len(d)    d[key]    d[key]=value
del d[key]    key in d    key not in d
iter(d)    clear()    copy()    items()
fromkeys(seq, value)    keys()
get(key[, default])    has_key(key)
iteritems()    iterkeys()
itervalues()    popitem()
.setdefault(key[, default])
update[other]
values
```

### Set Types

```
len(s)    x in s    x not in s    isdisjoint(other)
issubset(other)    issuperset(other)
intersection(other)    difference(other)
symmetric_difference(other)    copy()    update()
intersection_update()    difference_update()
symmetric_difference_update()    add(elem)
remove()    discard(elem)    pop()    clear()
```

## Date Time

## Date Formatting

```
%a    Abbreviated weekday (Mon)    %A    Weekday (Monday)
%b    Abbreviated month name (Nov)    %B    Month name (November)
%c    Date and time    %d    Day (leading zeros) (01 to 31)
%e    24-hour (leading zeros) (00 to 23)    %I    12-hour (leading zeros) (01 to 12)
%g    Day of year (001 to 366)    %m    Month (01 to 12)    %M    Minute (00 to 59)
%p    AM or PM    %S    Second (00 to 61.7)    %U    Week number 1 (00 to 53)
%w    Weekday (0 to 6)    %W    Week number 3 (00 to 53)    %x    Date
%X    Time    %Y    Year without century (00 to 99)    %Y    Year (2016)
%Z    Time zone (EST)    %%    A literal "%" character (%)
```

# Python Programming Cheat Sheet

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