

### Python sys Variables

|                       |                        |
|-----------------------|------------------------|
| argv                  | Command line args      |
| builtin_module_names  | Linked C modules       |
| byteorder             | Native byte order      |
| 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         |

### Python List Methods

|                        |               |
|------------------------|---------------|
| append(item)           | pop(position) |
| count(item)            | remove(item)  |
| extend(list)           | reverse()     |
| index(item)            | sort()        |
| insert(position, item) |               |

### Python Time Methods

|                  |             |
|------------------|-------------|
| replace()        | utcoffset() |
| isoformat()      | dst()       |
| __str__()        | tzname()    |
| strftime(format) |             |

### Python 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)  |                     |

### Python Indexes and Slices

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

### Arithmetic Operators

|       |          |        |          |
|-------|----------|--------|----------|
| x + y | add      | x - y  | subtract |
| x * y | multiply | x / y  | divide   |
| x % y | modulus  | x ** y | xy       |

Assignment shortcuts: x op= y

Example: x += 1 increments x

### Python sys.argv

|                                                           |        |
|-----------------------------------------------------------|--------|
| sys.argv[0]                                               | foo.py |
| sys.argv[1]                                               | bar    |
| sys.argv[2]                                               | -c     |
| sys.argv[3]                                               | qux    |
| sys.argv[4]                                               | --h    |
| sys.argv for the command: \$ python foo.py bar -c qux --h |        |

### Python File Methods

|                |                  |
|----------------|------------------|
| close()        | readlines(size)  |
| flush()        | seek(offset)     |
| fileno()       | tell()           |
| isatty()       | truncate(size)   |
| next()         | write(string)    |
| read(size)     | writelines(list) |
| readline(size) |                  |

### Python String Methods

|                        |                         |
|------------------------|-------------------------|
| capitalize() *         | lstrip()                |
| center(width)          | partition(sep)          |
| count(sub, start, end) | replace(old, new)       |
| decode()               | rfind(sub, start, end)  |
| encode()               | rindex(sub, start, end) |
| endswith(sub)          | rjust(width)            |
| expandtabs()           | rpartition(sep)         |
| find(sub, start, end)  | rsplit(sep)             |



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### Python String Methods (cont)

|                                                                 |                  |
|-----------------------------------------------------------------|------------------|
| index(sub, start, end)                                          | rstrip()         |
| isalnum() *                                                     | split(sep)       |
| isalpha() *                                                     | splitlines()     |
| isdigit() *                                                     | startswith(sub)  |
| islower() *                                                     | strip()          |
| isspace() *                                                     | swapcase() *     |
| istitle() *                                                     | title() *        |
| isupper() *                                                     | translate(table) |
| join()                                                          | upper() *        |
| ljust(width)                                                    | zfill(width)     |
| lower()* Methods marked are locale dependant for 8-bit strings. |                  |

### Data Types

|            |                                   |
|------------|-----------------------------------|
| Integer    | -256, 15                          |
| Float      | -253.23, 1.253e-10                |
| String     | "Hello", 'Goodbye', ""Multiline"" |
| Boolean    | True, False                       |
| List       | [ value, ... ]                    |
| Tuple      | ( value, ... )1                   |
| Dictionary | { key: value, ... }               |
| Set        | { value, value, ... }2            |

- 1 Parentheses usually optional
- 2 Create an empty set with set()

### Conversion Functions

|             |                          |
|-------------|--------------------------|
| int(expr)   | Converts expr to integer |
| float(expr) | Converts expr to float   |
| str(expr)   | Converts expr to string  |
| chr(num)    | ASCII char num           |

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|           |                          |
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### Python Datetime Methods

|                             |                        |
|-----------------------------|------------------------|
| today()                     | fromordinal(ordinal)   |
| now(timezoneinfo)           | combine(date, time)    |
| utcnow()                    | strptime(date, format) |
| fromtimestamp(timestamp)    |                        |
| utcfromtimestamp(timestamp) |                        |

### Python os Variables

|         |                     |
|---------|---------------------|
| altsep  | Alternative sep     |
| curdir  | Current dir string  |
| defpath | Default search path |
| devnull | Path of null device |
| extsep  | Extension separator |
| linesep | Line separator      |
| name    | Name of OS          |
| pardir  | Parent dir string   |
| pathsep | Path separator      |
| sep     | Path separator      |

Registered OS names: "posix", "nt", "mac", "os2", "ce", "java", "riscos"

### Python Date Formatting

|    |                           |
|----|---------------------------|
| %a | Abbreviated weekday (Sun) |
|----|---------------------------|

- <sup>1</sup> Sunday as start of week. All days in a new year preceding the first Sunday are considered to be in week 0.
- <sup>2</sup> 0 is Sunday, 6 is Saturday.
- <sup>3</sup> Monday as start of week. All days in a new year preceding the first Monday are considered to be in week 0.
- <sup>4</sup> This is not a mistake. Range takes account of leap and double-leap seconds.

### Python Date Formatting

|    |                                     |
|----|-------------------------------------|
| %a | Abbreviated weekday (Sun)           |
| %A | Weekday (Sunday)                    |
| %b | Abbreviated month name (Jan)        |
| %B | Month name (January)                |
| %c | Date and time                       |
| %d | Day (leading zeros) (01 to 31)      |
| %H | 24 hour (leading zeros) (00 to 23)  |
| %I | 12 hour (leading zeros) (01 to 12)  |
| %j | 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 <sup>4</sup> )     |
| %U | Week number <sup>1</sup> (00 to 53) |
| %w | Weekday <sup>2</sup> (0 to 6)       |
| %W | Week number <sup>3</sup> (00 to 53) |
| %x | Date                                |
| %X | Time                                |
| %y | Year without century (00 to 99)     |
| %Y | Year (2008)                         |
| %Z | Time zone (GMT)                     |
| %% | A literal "%" character (%)         |

<sup>1</sup> Sunday as start of week. All days in a new year preceding the first Sunday are considered to be in week 0.

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Assignment shortcuts: x op= y  
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