Python Cheat Sheet _________

We created this Python 3 Cheat Sheet initially for students of <u>Complete Python Developer</u>: <u>Zero to Mastery</u> but we're now sharing it with any Python beginners to help them learn and remember common Python syntax and with intermediate and advanced Python developers as a handy reference.

Want to download a PDF version of this Python Cheat Sheet?

Enter your email below and we'll send it to you

Enter Your Email Address

SEND ME THE PDF

Unsubscribe anytime.

If you've stumbled across this page and are just starting to learn Python, congrats! Python has been around for quite a while but is having a resurgence and has become one of the most popular coding languages in fields like data science, machine learning and web development.

However, if you're stuck in an endless cycle of YouTube tutorials and want to start building real world projects, become a professional Python 3 developer, have fun and actually get hired, then come join the Zero To Mastery Academy and Learn Python alongside thousands of students that are you in your exact shoes.

Otherwise, please enjoy this guide and if you'd like to submit any corrections or suggestions, feel free to email us at support@zerotomastery.io

Contents

Python Types:

Strings			
Boolean			
<u>Lists</u>			
<u>Dictionaries</u>			
<u>Tuples</u>			
<u>Sets</u>			
None			
Python Basics:			
Comparison Operators			
Logical Operators			
Loops			
Range			
Enumerate			
Counter			
Named Tuple			
<u>OrderedDict</u>			
Functions:			
<u>Functions</u>			
<u>Lambda</u>			
Comprehensions			
Map,Filter,Reduce			
<u>Ternary</u>			
Any,All			
Closures			
Scope			
Advanced Python:			
<u>Modules</u>			
<u>Iterators</u>			
Generators			
<u>Decorators</u>			
Class			
<u>Exceptions</u>			

Numbers

File IO

Useful Libraries

Numbers

Python's 2 main types for Numbers is int and float (or integers and floating point numbers)

```
1
    type(1) # int
2
    type(-10) # int
3
  type(0) # int
  type(0.0) # float
5
    type(2.2) # float
6 type(4E2) # float - 4*10 to the power of 2
    # Arithmetic
1
    10 + 3 # 13
  10 - 3 # 7
3
  10 * 3 # 30
5
   10 ** 3 # 1000
6
   10 / 3 # 3.33333333333333333
7
    10 // 3 # 3 --> floor division - no decimals and returns a
  10 % 3 # 1 --> modulo operator - return the reminder. Goo
```

```
1 # Basic Functions
  pow(5, 2) # 25 --> like doing 5**2
                 # 50
  abs(-<mark>50</mark>)
  round(5.46) # 5
5 | round(5.468, 2)# 5.47 --> round to nth digit
6
    bin(512) # '0b1000000000' --> binary format
                # '0x200' --> hexadecimal format
7 hex(512)
1  # Converting Strings to Numbers
    age = input("How old are you?")
3
  age = int(age)
    pi = input("What is the value of pi?")
  pi = float(pi)
```

Strings

```
2
3
    'I\'m thirsty'
4
    "I'm thirsty"
5
    "\n" # new line
    "\t" # adds a tab
6
7
    'Hey you!'[4] # y
8
    name = 'Andrei Neagoie'
9
    name[4]
10
               # e
    name[:]
              # Andrei Neagoie
11
12
    name[1:] # ndrei Neagoie
13
    name[:1]
               # A
14
               # e
    name[-1]
    name[::1] # Andrei Neagoie
15
16
    name[::-1] # eiogaeN ierdnA
17
    name[0:10:2]# Ade e
18
    # : is called slicing and has the format [ start : end : s
19
20
    'Hi there ' + 'Timmy' # 'Hi there Timmy' --> This is calle
    '*'*10 # *********
21
1
    # Basic Functions
2
    len('turtle') # 6
3
4
    # Basic Methods
    ' I am alone '.strip()
                                         # 'I am alone' --> S
5
    'On an island'.strip('d')
                                         # 'On an islan' -->
6
    'but life is good!'.split()
7
                                         # ['but', 'life', 'i
    'Help me'.replace('me', 'you')
                                         # 'Help you' --> Rep
8
    'Need to make fire'.startswith('Need')# True
9
    'and cook rice'.endswith('rice')
10
                                          # True
    'bye bye'.index('e')
                                          # 2
11
                                         # STILL THERE?
12
    'still there?'.upper()
13
    'HELLO?!'.lower()
                                         # hello?!
    'ok, I am done.'.capitalize()
                                        # 'Ok, I am done.'
14
15
    'oh hi there'.find('i')
                                         # 4 --> returns the
    'oh hi there'.count('e')
                                          # 2
16
17
    # String Formatting
1
2
    name1 = 'Andrei'
    name2 = 'Sunny'
3
4
    print(f'Hello there {name1} and {name2}')
    print('Hello there {} and {}'.format(name1, name2))# Hello
5
    print('Hello there %s and %s' %(name1, name2)) # Hello th
```

type('Hellloooooo') # str

1

1

2

3

#Palindrome check

p = bool(word.find(word[::-1]) + 1)

word = 'reviver'

print(p) # True

Boolean

True or False. Used in a lot of comparison and logical operations in Python

```
bool(True)
1
2
    bool(False)
3
4 | # all of the below evaluate to False. Everything else will
5
    print(bool(None))
   print(bool(False))
6
7
    print(bool(0))
8
   print(bool(0.0))
9
    print(bool([]))
10
   print(bool({}))
11
    print(bool(()))
12
   print(bool(''))
13
    print(bool(range(0)))
14
   print(bool(set()))
15
16 | # See Logical Operators and Comparison Operators section f
```

Lists

Unlike strings, lists are mutable sequences in python

```
1
    my_list = [1, 2, '3', True]# We assume this list won't mut
2
   len(my_list)
                              # 4
3
   my_list.index('3')
                              # 2
4
   my_list.count(2)
                              # 1 --> count how many times 2
5
6
   my_list[3]
                              # True
7
    my_list[1:]
                              # [2, '3', True]
   my_list[:1]
                             # [1]
9
                              # True
    my_list[-1]
                             # [1, 2, '3', True]
    my_list[::1]
10
                              # [True, '3', 2, 1]
11
    my_list[::-1]
                              # [1, '3']
12
   my_list[0:3:2]
13
14 | # : is called slicing and has the format [ start : end : s
```

```
1
    # Copy a List
    basket = ['apples', 'pears', 'oranges']
3
    new_basket = basket.copy()
4
    new_basket2 = basket[:]
1
    # Remove from List
2
    [1,2,3].pop() # 3 --> mutates original list, default in
3
    [1,2,3].pop(1) # 2 --> mutates original list
    [1,2,3].remove(2)# None --> [1,3] Removes first occurrence
5
    [1,2,3].clear() # None --> mutates original list and remo
6
    del [1,2,3][0] #
1
    # Ordering
2
    [1,2,5,3].sort()
                            # None --> Mutates list to [1, 2,
3
    [1,2,5,3].sort(reverse=True) # None --> Mutates list to [5
4
    [1,2,5,3].reverse()
                            # None --> Mutates list to [3, 5,
                             # [1, 2, 3, 5] --> new list creat
5
    sorted([1,2,5,3])
    list(reversed([1,2,5,3]))# [3, 5, 2, 1] --> reversed() ret
1
    # Useful operations
2
    1 in [1,2,5,3] # True
3
    min([1,2,3,4,5])# 1
4
    \max([1,2,3,4,5])# 5
5
    sum([1,2,3,4,5])# 15
1
    # Get First and Last element of a list
2
    mList = [63, 21, 30, 14, 35, 26, 77, 18, 49, 10]
3
    first, *x, last = mList
    print(first) #63
4
5
    print(last) #10
    # Matrix
    matrix = [[1,2,3], [4,5,6], [7,8,9]]
    matrix[2][0] # 7 --> Grab first first of the third item in
    # Looping through a matrix by rows:
    mx = [[1,2,3],[4,5,6]]
    for row in range(len(mx)):
        for col in range(len(mx[0])):
            print(mx[row][col]) # 1 2 3 4 5 6
    # Transform into a list:
    [mx[row][col] for row in range(len(mx)) for col in range(len(mx))
```

' '.join(['Hello','There'])# 'Hello There' --> Joins eleme

8

```
1  # List Comprehensions
2  # new_list[<action> for <item> in <iterator> if <some cond
3  a = [i for i in 'hello']  # ['h', 'e', 'l'
4  b = [i*2 for i in [1,2,3]]  # [2, 4, 6]
5  c = [i for i in range(0,10) if i % 2 == 0]# [0, 2, 4, 6, 8]</pre>
```

Combine columns with zip and *:

[x for x in zip(*mx)] # [(1, 3), (2, 4)]

```
1  # Advanced Functions
   list_of_chars = list('Helloooo')
2
    sum\_of\_elements = sum([1,2,3,4,5])
3
    element_sum = [sum(pair) for pair in zip([1,2,3],[4,5,6])]
    sorted_by_second = sorted(['hi','you','man'], key=lambda e
5
    sorted_by_key = sorted([
6
7
                            {'name': 'Bina', 'age': 30},
8
                            {'name':'Andy', 'age': 18},
9
                            {'name': 'Zoey', 'age': 55}],
                            key=lambda el: (el['name']))# [{'na
10
```

```
# Read line of a file into a list
with open("myfile.txt") as f:
lines = [line.strip() for line in f]
```

Dictionaries

14

15

16

Also known as mappings or hash tables. They are key value pairs that are guaranteed to retain order of insertion starting from Python 3.7

```
my_dict = {'name': 'Andrei Neagoie', 'age': 30, 'magic_pow
1
2
    my_dict['name']
                                        # Andrei Neagoie
                                        # 3
3
    len(my_dict)
4
   list(my_dict.keys())
                                        # ['name', 'age', 'ma
5
    list(my_dict.values())
                                        # ['Andrei Neagoie',
    list(my_dict.items())
                                        # [('name', 'Andrei N
6
    my_dict['favourite_snack'] = 'Grapes'# {'name': 'Andrei Ne
7
8
    my_dict.get('age')
                                      # 30 --> Returns None
9
    my_dict.get('ages', 0)
                                        # 0 --> Returns defau
10
11
    #Remove key
12
    del my_dict['name']
    my_dict.pop('name', None)
13
```

Tuples

Like lists, but they are used for immutable things (that don't change)

```
1
    my_tuple = ('apple', 'grapes', 'mango', 'grapes')
2
    apple, grapes, mango, grapes = my_tuple# Tuple unpacking
3
    len(my_tuple)
                                           # 4
4
   my_tuple[2]
                                           # mango
5
   my_tuple[-1]
                                           # 'grapes'
1
    # Immutability
    my_tuple[1] = 'donuts' # TypeError
    my_tuple.append('candy')# AttributeError
1
    # Methods
2
    my_tuple.index('grapes') # 1
3 my_tuple.count('grapes') # 2
    # Zip
1
    list(zip([1,2,3], [4,5,6])) # [(1, 4), (2, 5), (3, 6)]
1
    # unzip
    z = [(1, 2), (3, 4), (5, 6), (7, 8)] # Some output of zip(
    unzip = lambda z: list(zip(*z))
    unzip(z)
```

Sets

```
1
  my_set = set()
  my_set.add(1) # \{1\}
  my_set.add(100)# {1, 100}
  my_set.add(100)# {1, 100} --> no duplicates!
1
    new_list = [1,2,3,3,3,4,4,5,6,1]
2
    set(new_list)
                         # {1, 2, 3, 4, 5, 6}
3
4
  my_set.remove(100) # {1} --> Raises KeyError if eleme
  my_set.discard(100) # {1} --> Doesn't raise an error i
5
6
  my_set.clear()
                          # {}
  new_set = \{1,2,3\}.copy()# \{1,2,3\}
```

```
1 | set1 = \{1,2,3\}
2 \mid set2 = \{3,4,5\}
3 set3 = set1.union(set2)
                                        # {1,2,3,4,5}
4 set4 = set1.intersection(set2)
                                       # {3}
5 | set5 = set1.difference(set2) # {1, 2}
    set6 = set1.symmetric_difference(set2)# {1, 2, 4, 5}
6
   set1.issubset(set2)
                                       # False
   set1.issuperset(set2)
                                        # False
   set1.isdisjoint(set2)
                                        # False --> return T
10
```

```
1  # Frozenset
2  # hashable --> it can be used as a key in a dictionary or
3  | <frozenset> = frozenset(<collection>)
```

None

None is used for absence of a value and can be used to show nothing has been assigned to an object

```
1 type(None) # NoneType
2 a = None
```

Comparison Operators

```
# equal values
!=  # not equal

>  # left operand is greater than right

<  # left operand is less than right ope</pre>
```

```
5 >= # left operand is greater than or equ
6 <= # left operand is less than or equal
7 <element> is <element> # check if two operands refer to sa
```

Logical Operators

```
1 < 2 and 4 > 1 # True
2
   1 > 3 or 4 > 1 # True
3
    1 is not 4
                  # True
   not True
                  # False
5
    1 not in [2,3,4]# True
6
7
    if <condition that evaluates to boolean>:
8
      # perform action1
9
    elif <condition that evaluates to boolean>:
      # perform action2
10
11
12
      # perform action3
```

Loops

```
1
    my_{list} = [1,2,3]
2
    my_{tuple} = (1,2,3)
    my_list2 = [(1,2), (3,4), (5,6)]
3
    my_dict = {'a': 1, 'b': 2. 'c': 3}
5
    for num in my_list:
7
        print(num) # 1, 2, 3
8
9
    for num in my_tuple:
10
        print(num) # 1, 2, 3
11
12
    for num in my_list2:
        print(num) # (1,2), (3,4), (5,6)
13
14
15
    for num in '123':
16
        print(num) # 1, 2, 3
17
18
    for k,v in my_dict.items(): # Dictionary Unpacking
19
        print(k) # 'a', 'b', 'c'
20
        print(v) # 1, 2, 3
21
22
    while <condition that evaluates to boolean>:
23
      # action
24
      if <condition that evaluates to boolean>:
25
        break # break out of while loop
      if <condition that evaluates to boolean>:
        continue # continue to the next line in the block
```

```
# waiting until user quits
msg = ''
while msg != 'quit':
msg = input("What should I do?")
print(msg)
```

Range

Enumerate

```
1  for i, el in enumerate('helloo'):
2  print(f'{i}, {el}')
3  # 0, h
4  # 1, e
5  # 2, l
6  # 3, l
7  # 4, o
8  # 5, o
```

Counter

```
from collections import Counter
colors = ['red', 'blue', 'yellow', 'blue', 'red', 'blue']
counter = Counter(colors)# Counter({'blue': 3, 'red': 2, 'counter.most_common()[0] # ('blue', 3)
```

Named Tuple

- Tuple is an immutable and hashable list.
- Named tuple is its subclass with named elements.

```
from collections import namedtuple
Point = namedtuple('Point', 'x y')
```

```
3
    p = Point(1, y=2) \# Point(x=1, y=2)
4
                    # 1
    p[0]
5
                   # 1
    р.х
6
    getattr(p, 'y') # 2
    p._fields # Or: Point._fields #('x', 'y')
1
    from collections import namedtuple
2
    Person = namedtuple('Person', 'name height')
  person = Person('Jean-Luc', 187)
4
    f'{person.height}'
                                # '187'
    '{p.height}'.format(p=person)# '187'
```

OrderedDict

Maintains order of insertion

```
1 | from collections import OrderedDict
2 | # Store each person's languages, keeping # track of who re
3
   programmers = OrderedDict()
   | programmers['Tim'] = ['python', 'javascript']
5
    programmers['Sarah'] = ['C++']
   programmers['Bia'] = ['Ruby', 'Python', 'Go']
7
8
   for name, langs in programmers.items():
9
        print(name + '-->')
10
        for lang in langs:
          print('\t' + lang)
11
```

Functions

*args and **kwargs

Splat (*) expands a collection into positional arguments, while splatty-splat (**) expands a dictionary into keyword arguments.

```
1   args = (1, 2)
2   kwargs = {'x': 3, 'y': 4, 'z': 5}
3   some_func(*args, **kwargs) # same as some_func(1, 2, x=3,
```

* Inside Function Definition

Splat combines zero or more positional arguments into a tuple, while splatty-splat combines zero or more keyword arguments into a

dictionary.

```
1  def add(*a):
2    return sum(a)
3  4  add(1, 2, 3) # 6
```

Ordering of parameters:

```
1
                            def f(*args):
                                                                                                                                                                                                                      # f(1, 2, 3)
                       def f(x, *args):
def f(*args, z):
                                                                                                                                                                                                                     # f(1, 2, 3)
     2
     3
                                                                                                                                                                                                                      # f(1, 2, z=3)
                       def f(x, *args, z): # f(1, 2, z=3)
     4
     5
     6
                       def f(**kwargs):
                                                                                                                                                                                                                        # f(x=1, y=2, z=3)
     7
                         def f(x, **kwargs):
                                                                                                                                                                                                                        # f(x=1, y=2, z=3) | f(1, y)
9 def f(*args, **kwargs): # f(x=1, y=2, z=3) | f(1, y def f(x, *args, **kwargs): # f(x=1, y=2, z=3) | f(1, y def f(*args, y, **kwargs): # f(x=1, y=2, z=3) | f(1, y def f(*args, y, **kwargs): # f(x=1, y=2, z=3) | f(1, y def f(*args, y, **kwargs):
12 def f(x, *args, z, **kwargs): # f(x=1, y=2, z=3) | f(1, y=3, z=3) | f(1, y=3,
```

Other Uses of *

```
1 [*[1,2,3], *[4]] # [1, 2, 3, 4]

2 {*[1,2,3], *[4]} # {1, 2, 3, 4}

3 (*[1,2,3], *[4]) # (1, 2, 3, 4)

4 {**{'a': 1, 'b': 2}, **{'c': 3}}# {'a': 1, 'b': 2, 'c': 3}
```

```
1 head, *body, tail = [1,2,3,4,5]
```

Lambda

```
# lambda: <return_value>
# lambda <argument1>, <argument2>: <return_value>

# Factorial
from functools import reduce
n = 3
factorial = reduce(lambda x, y: x*y, range(1, n+1))
print(factorial) #6
```

```
1  # Fibonacci
2  fib = lambda n : n if n <= 1 else fib(n-1) + fib(n-2)
3  result = fib(10)
4  print(result) #55</pre>
```

Comprehensions

Ternary Condition

```
# <expression_if_true> if <condition> else <expression_if_
[a if a else 'zero' for a in [0, 1, 0, 3]] # ['zero', 1, '</pre>
```

Map Filter Reduce

```
from functools import reduce
list(map(lambda x: x + 1, range(10)))  # [1, 2,
list(filter(lambda x: x > 5, range(10)))  # (6, 7,
reduce(lambda acc, x: acc + x, range(10))  # 45
```

Any All

```
any([False, True, False])# True if at least one item in co all([True,1,3,True]) # True if all items in collection
```

Closures

We have a closure in Python when:

- A nested function references a value of its enclosing function and then
- the enclosing function returns the nested function.

```
1  def get_multiplier(a):
2   def out(b):
3     return a * b
4  return out

1  >>> multiply_by_3 = get_multiplier(3)
2  >>> multiply_by_3(10)
3  30
```

- If multiple nested functions within enclosing function reference the same value, that value gets shared.
- To dynamically access function's first free variable use

```
'<function>.__closure__[0].cell_contents'.
```

Scope

If variable is being assigned to anywhere in the scope, it is regarded as a local variable, unless it is declared as a 'global' or a 'nonlocal'.

```
1     >>> counter = get_counter()
2     >>> counter(), counter(), counter()
```

(1, 2, 3)

Modules

```
1 | if __name__ == '__main__': # Runs main() if file wasn't im
2 | main()
```

```
1  import <module_name>
2  from <module_name> import <function_name>
3  import <module_name> as m
4  from <module_name> import <function_name> as m_function
5  from <module_name> import *
```

Iterators

In this cheatsheet '<collection>' can also mean an iterator.

Generators

Convenient way to implement the iterator protocol.

Decorators

A decorator takes a function, adds some functionality and returns it.

```
1  @decorator_name
2  def function_that_gets_passed_to_decorator():
3  ...
```

Debugger Example

Decorator that prints function's name every time it gets called.

```
from functools import wraps
2
3
   def debug(func):
4
       @wraps(func)
5
        def out(*args, **kwargs):
            print(func.__name__)
6
7
            return func(*args, **kwargs)
8
        return out
9
10 | @debug
11
    def add(x, y):
12
       return x + y
```

- Wraps is a helper decorator that copies metadata of function add() to function out().
- Without it 'add.__name__' would return 'out'.

Class

User defined objects are created using the class keyword

```
class <name>:
    age = 80 # Class Object Attribute
def __init__(self, a):
    self.a = a # Object Attribute

@classmethod
def get_class_name(cls):
    return cls.__name__
```

Inheritance

"python class Person: def __init__(self, name, age): self.name = name self.age = age class Employee(Person): def init(self, name, age, staff_num): super().init(name, age) self.staff_num = staff_num

MRO determines the order in which parent classes are traversed when searching for a method:

```
1 | >>> C.mro()
2 | [<class 'C'>, <class 'A'>, <class 'B'>, <class 'object'>]
```

Exceptions

```
1
  try:
2
     5/0
3
    except ZeroDivisionError:
      print("No division by zero!")
   while True:
1
2
     try:
3
       x = int(input('Enter your age: '))
4
      except ValueError:
5
       print('Oops! That was no valid number. Try again...'
      else: # code that depends on the try block running succe
6
7
        print('Carry on!')
8
        break
```

Raising Exception

""python raise ValueError('some error message') ""

Finally

File IO

Opens a file and returns a corresponding file object.

```
1 | <file> = open('<path>', mode='r', encoding=None)
```

Modes

- 'r' Read (default).
- "w" Write (truncate).
- "x" Write or fail if the file already exists.
- 'a' Append.
- 'W+' Read and write (truncate).
- 'r+' Read and write from the start.
- 'a+' Read and write from the end.
- 't' Text mode (default).
- 'b' Binary mode.

File

```
1 | <file>.seek(0)  # Moves to the start o

1 | <str/bytes> = <file>.readline()  # Returns a line.
2 | 2 | <file>.readlines()  # Returns a list of li

1 | <file>.write(<str/bytes>)  # Writes a string or b
2 | <file>.writelines(<list>)  # Writes a list of str
```

Methods do not add or strip trailing newlines.

Read Text from File

```
def read_file(filename):
    with open(filename, encoding='utf-8') as file:
        return file.readlines() # or read()

for line in read_file(filename):
    print(line)
```

Write Text to File

```
def write_to_file(filename, text):
with open(filename, 'w', encoding='utf-8') as file:
file.write(text)
```

Append Text to File

```
def append_to_file(filename, text):
    with open(filename, 'a', encoding='utf-8') as file:
    file.write(text)
```

Useful Libraries

CSV

```
1 | import csv
```

Read Rows from CSV File

```
def read_csv_file(filename):
    with open(filename, encoding='utf-8') as file:
    return csv.reader(file, delimiter=';')
```

Write Rows to CSV File

```
def write_to_csv_file(filename, rows):
    with open(filename, 'w', encoding='utf-8') as file:
    writer = csv.writer(file, delimiter=';')
    writer.writerows(rows)
```

JSON

Read Object from JSON File

```
def read_json_file(filename):
    with open(filename, encoding='utf-8') as file:
    return json.load(file)
```

Write Object to JSON File

```
1 def write_to_json_file(filename, an_object):
2     with open(filename, 'w', encoding='utf-8') as file:
3          json.dump(an_object, file, ensure_ascii=False, ind)
```

Pickle

```
1   import pickle
2   <bytes> = pickle.dumps(<object>)
3   <object> = pickle.loads(<bytes>)
```

Read Object from File

```
1  def read_pickle_file(filename):
2  with open(filename, 'rb') as file:
3  return pickle.load(file)
```

Write Object to File

```
def write_to_pickle_file(filename, an_object):
    with open(filename, 'wb') as file:
    pickle.dump(an_object, file)
```

Profile

Basic

```
from time import time
start_time = time() # Seconds since

duration = time() - start_time
```

Math

```
from math import e, pi
from math import cos, acos, sin, asin, tan, atan, degrees,
from math import log, log10, log2
from math import inf, nan, isinf, isnan
```

Statistics

1 | from statistics import mean, median, variance, pvariance,

Random

```
from random import random, randint, choice, shuffle
random() # random float between 0 and 1
randint(0, 100) # random integer between 0 and 100
random_el = choice([1,2,3,4]) # select a random element fr
shuffle([1,2,3,4]) # shuffles a list
```

Datetime

- Module 'datetime' provides 'date' <D>, 'time' <T>, 'datetime' <DT>
 and 'timedelta' <TD> classes. All are immutable and hashable.
- Time and datetime can be 'aware' <a>, meaning they have defined timezone, or 'naive' <n>, meaning they don't.
- If object is naive it is presumed to be in system's timezone.

```
from datetime import date, time, datetime, timedelta
from dateutil.tz import UTC, tzlocal, gettz
```

Constructors

```
<D> = date(year, month, day)
<T> = time(hour=0, minute=0, second=0, microsecond=0, tzi
<DT> = datetime(year, month, day, hour=0, minute=0, second
```

```
<TD> = timedelta(days=0, seconds=0, microseconds=0, millis minutes=0, hours=0, weeks=0)
```

- Use '<D/DT>. weekday()' to get the day of the week (Mon ==
 0).
- 'fold=1' means second pass in case of time jumping back for one hour.

Now



Timezone

Regex

```
import re
system = re.sub(<regex>, new, text, count=0) # Substitut

list> = re.findall(<regex>, text) # Returns a

list> = re.split(<regex>, text, maxsplit=0) # Use brack

list> = re.search(<regex>, text) # Searches

list> = re.search(<regex>, text) # Searches

list> = re.match(<regex>, text) # Searches
```

Match Object

Special Sequences

Expressions below hold true for strings that contain only ASCII characters. Use capital letters for negation.

Credits

Inspired by: this repo

Quick Links	The Academy	Company
Home	Courses	About ZTM
Pricing	Career Paths	Swag Store
Testimonials	Workshops &	Ambassadors
Blog	More	Contact Us
Cheat Sheets	Career Path	
Newsletters	Quiz	
Community	Free Resources	

Privacy Terms Cookies

Copyright © 2023, Zero To Mastery Inc.