

In [2]:

```
import numpy as np
import matplotlib.pyplot as plt
import matplotlib
import statsmodels.api as sm
from scipy.stats import norm
from scipy.stats.stats import pearsonr
```

In [3]:

```
# str, int, float
str(3)
```

Out[3]:

```
'3'
```

In [4]:

```
# int
int('5')
```

Out[4]:

```
5
```

In [5]:

```
# float
float('7.1')
```

Out[5]:

```
7.1
```

In [6]:

```
range(10)
```

Out[6]:

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

In [7]:

```
range(1,10)
```

Out[7]:

```
[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

In [8]:

```
dir
```

Out[8]:

```
<function dir>
```

In [9]:

```
dir(str)[-5:]
```

Out[9]:

```
['swapcase', 'title', 'translate', 'upper', 'zfill']
```

In [10]:

```
help(str)
```

Help on class str in module `__builtin__`:

```
class str(basestring)
| str(object='') -> string
|
| Return a nice string representation of the object.
| If the argument is a string, the return value is the same object.
|
| Method resolution order:
|   str
|   basestring
|   object
|
| Methods defined here:
|
| __add__(...)
|   x.__add__(y) <==> x+y
|
| __contains__(...)
|   x.__contains__(y) <==> y in x
|
| __eq__(...)
|   x.__eq__(y) <==> x==y
|
| __format__(...)
|   S.__format__(format_spec) -> string
|
|   Return a formatted version of S as described by format_spec.
|
| __ge__(...)
|   x.__ge__(y) <==> x>=y
|
| __getattr__(...)
|   x.__getattr__('name') <==> x.name
|
| __getitem__(...)
|   x.__getitem__(y) <==> x[y]
|
| __getnewargs__(...)
|
| __getslice__(...)
|   x.__getslice__(i, j) <==> x[i:j]
|
|   Use of negative indices is not supported.
|
```

```

| __gt__(...)
|     x.__gt__(y) <==> x>y
|
| __hash__(...)
|     x.__hash__() <==> hash(x)
|
| __le__(...)
|     x.__le__(y) <==> x<=y
|
| __len__(...)
|     x.__len__() <==> len(x)
|
| __lt__(...)
|     x.__lt__(y) <==> x<y
|
| __mod__(...)
|     x.__mod__(y) <==> x%y
|
| __mul__(...)
|     x.__mul__(n) <==> x*n
|
| __ne__(...)
|     x.__ne__(y) <==> x!=y
|
| __repr__(...)
|     x.__repr__() <==> repr(x)
|
| __rmod__(...)
|     x.__rmod__(y) <==> y%x
|
| __rmul__(...)
|     x.__rmul__(n) <==> n*x
|
| __sizeof__(...)
|     S.__sizeof__() -> size of S in memory, in bytes
|
| __str__(...)
|     x.__str__() <==> str(x)
|
| capitalize(...)
|     S.capitalize() -> string
|
|     Return a copy of the string S with only its first character
|     capitalized.
|
| center(...)
|     S.center(width[, fillchar]) -> string
|
|     Return S centered in a string of length width. Padding is

```

```
|     done using the specified fill character (default is a space)
|
| count(...)
|     S.count(sub[, start[, end]]) -> int
|
|     Return the number of non-overlapping occurrences of substring sub in
|     string S[start:end]. Optional arguments start and end are interpreted
|     as in slice notation.
|
| decode(...)
|     S.decode([encoding[,errors]]) -> object
|
|     Decodes S using the codec registered for encoding. encoding defaults
|     to the default encoding. errors may be given to set a different error
|     handling scheme. Default is 'strict' meaning that encoding errors raise
|     a UnicodeDecodeError. Other possible values are 'ignore' and 'replace'
|     as well as any other name registered with codecs.register_error that is
|     able to handle UnicodeDecodeErrors.
|
| encode(...)
|     S.encode([encoding[,errors]]) -> object
|
|     Encodes S using the codec registered for encoding. encoding defaults
|     to the default encoding. errors may be given to set a different error
|     handling scheme. Default is 'strict' meaning that encoding errors raise
|     a UnicodeEncodeError. Other possible values are 'ignore', 'replace' and
|     'xmlcharrefreplace' as well as any other name registered with
|     codecs.register_error that is able to handle UnicodeEncodeErrors.
|
| endswith(...)
|     S.endswith(suffix[, start[, end]]) -> bool
|
|     Return True if S ends with the specified suffix, False otherwise.
|     With optional start, test S beginning at that position.
|     With optional end, stop comparing S at that position.
|     suffix can also be a tuple of strings to try.
|
| expandtabs(...)
|     S.expandtabs([tabsize]) -> string
|
|     Return a copy of S where all tab characters are expanded using spaces.
|     If tabsize is not given, a tab size of 8 characters is assumed.
|
| find(...)
|     S.find(sub [,start [,end]]) -> int
|
|     Return the lowest index in S where substring sub is found,
|     such that sub is contained within S[start:end]. Optional
|     arguments start and end are interpreted as in slice notation.
```

```
|
|     Return -1 on failure.
|
| format(...)
|     S.format(*args, **kwargs) -> string
|
|     Return a formatted version of S, using substitutions from args and kwargs.
|     The substitutions are identified by braces ('{' and '}').
|
| index(...)
|     S.index(sub [,start [,end]]) -> int
|
|     Like S.find() but raise ValueError when the substring is not found.
|
| isalnum(...)
|     S.isalnum() -> bool
|
|     Return True if all characters in S are alphanumeric
|     and there is at least one character in S, False otherwise.
|
| isalpha(...)
|     S.isalpha() -> bool
|
|     Return True if all characters in S are alphabetic
|     and there is at least one character in S, False otherwise.
|
| isdigit(...)
|     S.isdigit() -> bool
|
|     Return True if all characters in S are digits
|     and there is at least one character in S, False otherwise.
|
| islower(...)
|     S.islower() -> bool
|
|     Return True if all cased characters in S are lowercase and there is
|     at least one cased character in S, False otherwise.
|
| isspace(...)
|     S.isspace() -> bool
|
|     Return True if all characters in S are whitespace
|     and there is at least one character in S, False otherwise.
|
| istitle(...)
|     S.istitle() -> bool
|
|     Return True if S is a titlecased string and there is at least one
|     character in S, i.e. uppercase characters may only follow uncased
```

```
| characters and lowercase characters only cased ones. Return False
| otherwise.
|
| isupper(...)
|     S.isupper() -> bool
|
| Return True if all cased characters in S are uppercase and there is
| at least one cased character in S, False otherwise.
|
| join(...)
|     S.join(iterable) -> string
|
| Return a string which is the concatenation of the strings in the
| iterable. The separator between elements is S.
|
| ljust(...)
|     S.ljust(width[, fillchar]) -> string
|
| Return S left-justified in a string of length width. Padding is
| done using the specified fill character (default is a space).
|
| lower(...)
|     S.lower() -> string
|
| Return a copy of the string S converted to lowercase.
|
| lstrip(...)
|     S.lstrip([chars]) -> string or unicode
|
| Return a copy of the string S with leading whitespace removed.
| If chars is given and not None, remove characters in chars instead.
| If chars is unicode, S will be converted to unicode before stripping
|
| partition(...)
|     S.partition(sep) -> (head, sep, tail)
|
| Search for the separator sep in S, and return the part before it,
| the separator itself, and the part after it. If the separator is not
| found, return S and two empty strings.
|
| replace(...)
|     S.replace(old, new[, count]) -> string
|
| Return a copy of string S with all occurrences of substring
| old replaced by new. If the optional argument count is
| given, only the first count occurrences are replaced.
|
| rfind(...)
|     S.rfind(sub [,start [,end]]) -> int
```

```

|
|     Return the highest index in S where substring sub is found,
|     such that sub is contained within S[start:end]. Optional
|     arguments start and end are interpreted as in slice notation.
|
|     Return -1 on failure.
|
| rindex(...)
|     S.rindex(sub [,start [,end]]) -> int
|
|     Like S.rfind() but raise ValueError when the substring is not found.
|
| rjust(...)
|     S.rjust(width[, fillchar]) -> string
|
|     Return S right-justified in a string of length width. Padding is
|     done using the specified fill character (default is a space)
|
| rpartition(...)
|     S.rpartition(sep) -> (head, sep, tail)
|
|     Search for the separator sep in S, starting at the end of S, and return
|     the part before it, the separator itself, and the part after it. If the
|     separator is not found, return two empty strings and S.
|
| rsplit(...)
|     S.rsplit([sep [,maxsplit]]) -> list of strings
|
|     Return a list of the words in the string S, using sep as the
|     delimiter string, starting at the end of the string and working
|     to the front. If maxsplit is given, at most maxsplit splits are
|     done. If sep is not specified or is None, any whitespace string
|     is a separator.
|
| rstrip(...)
|     S.rstrip([chars]) -> string or unicode
|
|     Return a copy of the string S with trailing whitespace removed.
|     If chars is given and not None, remove characters in chars instead.
|     If chars is unicode, S will be converted to unicode before stripping
|
| split(...)
|     S.split([sep [,maxsplit]]) -> list of strings
|
|     Return a list of the words in the string S, using sep as the
|     delimiter string. If maxsplit is given, at most maxsplit
|     splits are done. If sep is not specified or is None, any
|     whitespace string is a separator and empty strings are removed
|     from the result.

```

```
|
| splitlines(...)
|     S.splitlines(keepends=False) -> list of strings
|
|     Return a list of the lines in S, breaking at line boundaries.
|     Line breaks are not included in the resulting list unless keepends
|     is given and true.
|
| startswith(...)
|     S.startswith(prefix[, start[, end]]) -> bool
|
|     Return True if S starts with the specified prefix, False otherwise.
|     With optional start, test S beginning at that position.
|     With optional end, stop comparing S at that position.
|     prefix can also be a tuple of strings to try.
|
| strip(...)
|     S.strip([chars]) -> string or unicode
|
|     Return a copy of the string S with leading and trailing
|     whitespace removed.
|     If chars is given and not None, remove characters in chars instead.
|     If chars is unicode, S will be converted to unicode before stripping
|
| swapcase(...)
|     S.swapcase() -> string
|
|     Return a copy of the string S with uppercase characters
|     converted to lowercase and vice versa.
|
| title(...)
|     S.title() -> string
|
|     Return a titlecased version of S, i.e. words start with uppercase
|     characters, all remaining cased characters have lowercase.
|
| translate(...)
|     S.translate(table [,deletechars]) -> string
|
|     Return a copy of the string S, where all characters occurring
|     in the optional argument deletechars are removed, and the
|     remaining characters have been mapped through the given
|     translation table, which must be a string of length 256 or None.
|     If the table argument is None, no translation is applied and
|     the operation simply removes the characters in deletechars.
|
| upper(...)
|     S.upper() -> string
|
```



```

|     Return a copy of the string S converted to uppercase.
|
|     zfill(...)
|     S.zfill(width) -> string
|
|     Pad a numeric string S with zeros on the left, to fill a field
|     of the specified width.  The string S is never truncated.
|
| -----
| Data and other attributes defined here:
|
| __new__ = <built-in method __new__ of type object>
|     T.__new__(S, ...) -> a new object with type S, a subtype of T

```

In [11]:

```

x = ' Hello World  '
dir(x)[-10:]

```

Out[11]:

```

['rstrip',
 'split',
 'splitlines',
 'startswith',
 'strip',
 'swapcase',
 'title',
 'translate',
 'upper',
 'zfill']

```

In [12]:

```

# lower
x.lower()

```

Out[12]:

```

' hello world  '

```

In [14]:

```

# upper
x.upper()

```

Out[14]:

```

' HELLO WORLD  '

```

In [16]:

```

# rstrip
x.rstrip()

```

Out[16]:

```

' Hello World'

```

In [17]:

```
# strip
x.strip()
```

Out[17]:

```
'Hello World'
```

In [18]:

```
# replace
x.replace('lo', '')
```

Out[18]:

```
' Hel World '
```

In [19]:

```
# split
x.split('lo')
```

Out[19]:

```
[' Hel', ' World ']
```

In [20]:

```
# join
','.join(['a', 'b'])
```

Out[20]:

```
'a,b'
```

In [21]:

```
x = 'hello world'
type(x)
```

Out[21]:

```
str
```

In [22]:

```
l = [1,2,3,3] # list
t = (1, 2, 3, 3) # tuple
s = set([1,2,3,3]) # set
d = {'a':1,'b':2,'c':3} # dict
a = np.array(l) # array
print l, t, s, d, a
```

```
[1, 2, 3, 3] (1, 2, 3, 3) set([1, 2, 3]) {'a': 1, 'c': 3, 'b': 2} [1 2 3 3]
```

In [23]:

```
l = [1,2,3,3] # list
l.append(4)
l
```

Out [23]:

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

In [24]:

```
d = {'a':1,'b':2,'c':3} # dict
d.keys()
```

Out [24]:

```
['a', 'c', 'b']
```

In [25]:

```
d = {'a':1,'b':2,'c':3} # dict
d.values()
```

Out [25]:

```
[1, 3, 2]
```

In [26]:

```
d = {'a':1,'b':2,'c':3} # dict
d['b']
```

Out [26]:

```
2
```

In [27]:

```
d = {'a':1,'b':2,'c':3} # dict
d.items()
```

Out [27]:

```
[('a', 1), ('c', 3), ('b', 2)]
```

In [28]:

```
def devidePlus(m, n): # 结尾是冒号
    y = float(m)/n+ 1 # 注意: 空格
    return y          # 注意: return
```

In [29]:

```
range(10)
```

Out [29]:

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

In [30]:

```
range(1,10)
```

Out [30]:

```
[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

In [31]:

```
for i in range(10):
    print i, i*10, i**2
```

```
0 0 0
```

```
1 10 1
2 20 4
3 30 9
4 40 16
5 50 25
6 60 36
7 70 49
8 80 64
9 90 81
```

In [33]:

```
for i in range(10):
    print i*10
```

```
0
10
20
30
40
50
60
70
80
90
```

In [34]:

```
for i in range(10):
    print devidePlus(i, 2)
```

```
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
```

In [35]:

```
# 列表内部的 for 循环
r = [devidePlus(i, 2) for i in range(10)]
r
```

Out[35]:

```
[1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5]
```

In [36]:

```
map(devidePlus, [4,3,2], [2, 1, 5])
```

```
# 注意： 将 (4, 2) 作为一个组合进行计算，将 (3, 1) 作为一个组合进行计算
```

Out [36]:

```
[3.0, 4.0, 1.4]
```

In [37]:

```
map(lambda x, y: x + y, [1, 3, 5, 7, 9], [2, 4, 6, 8, 10])
```

Out [37]:

```
[3, 7, 11, 15, 19]
```

In [38]:

```
map(lambda x, y, z: x + y - z, [1, 3, 5, 7, 9], [2, 4, 6, 8, 10], [3, 3, 2, 2, 5])
```

Out [38]:

```
[0, 4, 9, 13, 14]
```

In [39]:

```
j = 3
if j%2 == 1:
    print r'余数是 1'
elif j%2 == 2:
    print r'余数是 2'
else:
    print r'余数既不是 1 也不是 2'
```

余数是 1

In [40]:

```
x = 5
if x < 5:
    y = -1
    z = 5
elif x > 5:
    y = 1
    z = 11
else:
    y = 0
    z = 10
print(x, y, z)
```

(5, 0, 10)

In [41]:

```
j = 0
while j < 10:
    print j
```

```
j+=1 # avoid dead loop
```

```
0  
1  
2  
3  
4  
5  
6  
7  
8  
9
```

In [42]:

```
j = 0  
while j <10:  
    if j%2 != 0:  
        print j**2  
    j+=1 # avoid dead loop
```

```
1  
9  
25  
49  
81
```

In [43]:

```
j = 0  
while j <50:  
    if j == 30:  
        break  
    if j%2 != 0:  
        print j**2  
    j+=1 # avoid dead loop
```

```
1  
9  
25  
49  
81  
121  
169  
225  
289  
361  
441  
529
```

625

729

841

In [78]:

```
a = 4
while a:
    print a
    a -= 1
    print 'new:', a
    if a < 0:
        a = None
    print 'again', a# []
```

```
4
new: 3
again 3
3
new: 2
again 2
2
new: 1
again 1
1
new: 0
again 0
```

In [45]:

```
for i in [2, 0, 5]:
    try:
        print devidePlus(4, i)
    except Exception, e:
        print e
        pass
```

```
3.0
float division by zero
1.8
```

In [46]:

```
alist = [[1,1], [0, 0, 1]]
for aa in alist:
    for a in aa:
        try:
            print 10 / a
```

```
except Exception, e:

    print e

    pass
```

```
10
10
integer division or modulo by zero
integer division or modulo by zero
10
```

In [47]:

```
data = [[i, i**2, i**3] for i in range(10)]

data
```

Out[47]:

```
[[0, 0, 0],
 [1, 1, 1],
 [2, 4, 8],
 [3, 9, 27],
 [4, 16, 64],
 [5, 25, 125],
 [6, 36, 216],
 [7, 49, 343],
 [8, 64, 512],
 [9, 81, 729]]
```

In [48]:

```
for i in data:

    print '\t'.join(map(str, i))
```

```
0      0      0
1      1      1
2      4      8
3      9     27
4     16     64
5     25    125
6     36    216
7     49    343
8     64    512
9     81    729
```

In [49]:

```
type(data)
```

Out[49]:

```
list
```

In [50]:

```
len(data)
```

Out[50]:

In [51]:

```
data[0]
```

Out[51]:

```
[0, 0, 0]
```

In [53]:

```
# 保存数据
data = [[i, i**2, i**3] for i in range(10000)]

f = open("/Users/Administrator/desktop/github/data_write_to_file.txt", "wb")

for i in data:
    f.write('\t'.join(map(str,i)) + '\n')

f.close()
```

In [54]:

```
with open('/Users/Administrator/desktop/github/data_write_to_file.txt','r') as f:
    data = f.readlines()

data[:5]
```

Out[54]:

```
['0\t0\t0\n', '1\t1\t1\n', '2\t4\t8\n', '3\t9\t27\n', '4\t16\t64\n']
```

In [55]:

```
with open('/Users/Administrator/desktop/github/data_write_to_file.txt','r') as f:
    data = f.readlines(1000)

len(data)
```

Out[55]:

```
459
```

In [56]:

```
with open('/Users/Administrator/desktop/github/data_write_to_file.txt','r') as f:
    print f.readline()
```

```
0      0      0
```

In [57]:

```
f = [1, 2, 3, 4, 5]

for k, i in enumerate(f):
    print k, i
```

```
0 1
```

```
1 2
```

```
2 3
```

```
3 4
```

```
with open('/Users/Administrator/desktop/github/data_write_to_file.txt','r') as f:  
    for i in f:  
        print i
```

0	0	0
1	1	1
2	4	8
3	9	27
4	16	64
5	25	125
6	36	216
7	49	343
8	64	512
9	81	729
10	100	1000
11	121	1331
12	144	1728
13	169	2197
14	196	2744
15	225	3375
16	256	4096
17	289	4913
18	324	5832
19	361	6859
20	400	8000

21	441	9261
22	484	10648
23	529	12167
24	576	13824
25	625	15625
26	676	17576
27	729	19683
28	784	21952
29	841	24389
30	900	27000
31	961	29791
32	1024	32768
33	1089	35937
34	1156	39304
35	1225	42875
36	1296	46656
37	1369	50653
38	1444	54872
39	1521	59319
40	1600	64000
41	1681	68921
42	1764	74088
43	1849	79507
44	1936	85184
45	2025	91125

46	2116	97336
47	2209	103823
48	2304	110592
49	2401	117649
50	2500	125000
51	2601	132651
52	2704	140608
53	2809	148877
54	2916	157464
55	3025	166375
56	3136	175616
57	3249	185193
58	3364	195112
59	3481	205379
60	3600	216000
61	3721	226981
62	3844	238328
63	3969	250047
64	4096	262144
65	4225	274625
66	4356	287496
67	4489	300763
68	4624	314432
69	4761	328509

70	4900	343000
71	5041	357911
72	5184	373248
73	5329	389017
74	5476	405224
75	5625	421875
76	5776	438976
77	5929	456533
78	6084	474552
79	6241	493039
80	6400	512000
81	6561	531441
82	6724	551368
83	6889	571787
84	7056	592704
85	7225	614125
86	7396	636056
87	7569	658503
88	7744	681472
89	7921	704969
90	8100	729000
91	8281	753571
92	8464	778688
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9832	96668224	950441978368
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9990	99800100	997002999000
9991	99820081	997302429271
9992	99840064	997601919488

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9993      99860049  997901469657

9994      99880036  998201079784

9995      99900025  998500749875

9996      99920016  998800479936

9997      99940009  999100269973

9998      99960004  999400119992

9999      99980001  999700029999
```

In [59]:

```
with open('/Users/Administrator/desktop/github/data_write_to_file.txt','r') as f:

    for k, i in enumerate(f):

        if k%2000 ==0:

            print i
```

```
0          0          0

2000      4000000  8000000000

4000      16000000  64000000000

6000      36000000  216000000000

8000      64000000  512000000000
```

In [60]:

```
data = []

line = '0\t0\t0\n'

line = line.replace('\n', '')

line = line.split('\t')

line = [int(i) for i in line] # convert str to int

data.append(line)

data
```

Out[60]:

```
[[0, 0, 0]]
```

In [61]:

```
# 读取数据

data = []
```

```
with open('/Users/Administrator/desktop/github/data_write_to_file.txt','r') as f:

    for line in f:

        #line = line.replace('\n', '').split('\t')

        #line = [int(i) for i in line]

        data.append(line)

data
```

Out[61]:

```
['0\t0\t0\n',
 '1\t1\t1\n',
 '2\t4\t8\n',
 '3\t9\t27\n',
 '4\t16\t64\n',
 '5\t25\t125\n',
 '6\t36\t216\n',
 '7\t49\t343\n',
 '8\t64\t512\n',
 '9\t81\t729\n',
 '10\t100\t1000\n',
 '11\t121\t1331\n',
 '12\t144\t1728\n',
 '13\t169\t2197\n',
 '14\t196\t2744\n',
 '15\t225\t3375\n',
 '16\t256\t4096\n',
 '17\t289\t4913\n',
 '18\t324\t5832\n',
 '19\t361\t6859\n',
 '20\t400\t8000\n',
 '21\t441\t9261\n',
 '22\t484\t10648\n',
 '23\t529\t12167\n',
 '24\t576\t13824\n',
 '25\t625\t15625\n',
 '26\t676\t17576\n',
 '27\t729\t19683\n',
 '28\t784\t21952\n',
 '29\t841\t24389\n',
 '30\t900\t27000\n',
 '31\t961\t29791\n',
 '32\t1024\t32768\n',
 '33\t1089\t35937\n',
 '34\t1156\t39304\n',
 '35\t1225\t42875\n',
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In [62]:

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# 读取数据

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with open('/Users/Administrator/desktop/github/data_write_to_file.txt','r') as f:

    for line in f:

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        line = [int(i) for i in line]

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...]
```

In [64]:

```
import pandas as pd
```

In [65]:

```
help(pd.read_csv)
```

Help on function read_csv in module pandas.io.parsers:

```
read_csv(filepath_or_buffer, sep=',', delimiter=None, header='infer', names=None, index_col=None, usecols=None, squeeze=False, prefix=None, mangle_dupe_cols=True, dtype=None, engine=None, converters=None, true_values=None, false_values=None, skipinitialspace=False, skiprows=None, nrows=None, na_values=None, keep_default_na=True, na_filter=True, verbose=False, skip_blank_lines=True, parse_dates=False, infer_datetime_format=False, keep_date_col=False, date_parser=None, dayfirst=False, iterator=False, chunksize=None, compression='infer', thousands=None, decimal='.', lineterminator=None, quotechar='"', quoting=0, escapechar=None, comment=None, encoding=None, dialect=None, tupleize_cols=False, error_bad_lines=True, warn_bad_lines=True, skipfooter=0, skip_footer=0, doublequote=True, delim_whitespace=False, as_recarray=False, compact_ints=False, use_unsigned=False, low_memory=True, buffer_lines=None, memory_map=False, float_precision=None)
```

Read CSV (comma-separated) file into DataFrame

Also supports optionally iterating or breaking of the file into chunks.

Additional help can be found in the `online docs for IO Tools`_ <<http://pandas.pydata.org/pandas-docs/stable/io.html>>`_.

Parameters

`filepath_or_buffer` : str, pathlib.Path, py._path.local.LocalPath or any object with a read() method (such as a file handle or StringIO)

The string could be a URL. Valid URL schemes include http, ftp, s3, and file. For file URLs, a host is expected. For instance, a local file could be file `://localhost/path/to/table.csv`

`sep` : str, default ','

Delimiter to use. If `sep` is None, will try to automatically determine this. Separators longer than 1 character and different from `''\s+''` will be interpreted as regular expressions, will force use of the python parsing engine and will ignore quotes in the data. Regex example: `''\r\t''`

`delimiter` : str, default `''None''`

Alternative argument name for `sep`.

`delim_whitespace` : boolean, default False

Specifies whether or not whitespace (e.g. `'' ''` or `''\s+''`) will be used as the sep. Equivalent to setting `''sep='\s+''`. If this option is set to True, nothing should be passed in for the `''delimiter''` parameter.

`.. versionadded:: 0.18.1` support for the Python parser.

`header` : int or list of ints, default 'infer'

Row number(s) to use as the column names, and the start of the data. Default behavior is as if set to 0 if no ``names`` passed, otherwise ``None``. Explicitly pass ``header=0`` to be able to replace existing names. The header can be a list of integers that specify row locations for a multi-index on the columns e.g. [0,1,3]. Intervening rows that are not specified will be skipped (e.g. 2 in this example is skipped). Note that this parameter ignores commented lines and empty lines if ``skip_blank_lines=True``, so header=0 denotes the first line of data rather than the first line of the file.

`names` : array-like, default None

List of column names to use. If file contains no header row, then you should explicitly pass header=None. Duplicates in this list are not allowed unless `mangle_dupe_cols=True`, which is the default.

`index_col` : int or sequence or False, default None

Column to use as the row labels of the DataFrame. If a sequence is given, a MultiIndex is used. If you have a malformed file with delimiters at the end of each line, you might consider `index_col=False` to force pandas to `_not_` use the first column as the index (row names)

`usecols` : array-like, default None

Return a subset of the columns. All elements in this array must either be positional (i.e. integer indices into the document columns) or strings that correspond to column names provided either by the user in `names` or inferred from the document header row(s). For example, a valid `usecols` parameter would be [0, 1, 2] or ['foo', 'bar', 'baz']. Using this parameter results in much faster parsing time and lower memory usage.

`as_reccarray` : boolean, default False

DEPRECATED: this argument will be removed in a future version. Please call `pd.read_csv(...).to_records()` instead.

Return a NumPy recarray instead of a DataFrame after parsing the data. If set to True, this option takes precedence over the `squeeze` parameter. In addition, as row indices are not available in such a format, the `index_col` parameter will be ignored.

`squeeze` : boolean, default False

If the parsed data only contains one column then return a Series

`prefix` : str, default None

Prefix to add to column numbers when no header, e.g. 'X' for X0, X1, ...

`mangle_dupe_cols` : boolean, default True

Duplicate columns will be specified as 'X.0'...'X.N', rather than 'X'...'X'. Passing in False will cause data to be overwritten if there are duplicate names in the columns.

`dtype` : Type name or dict of column -> type, default None

Data type for data or columns. E.g. {'a': np.float64, 'b': np.int32} (Unsupported with engine='python'). Use `str` or `object` to preserve and not interpret dtype.

`engine` : {'c', 'python'}, optional

Parser engine to use. The C engine is faster while the python engine is

currently more feature-complete.

`converters` : dict, default None

Dict of functions for converting values in certain columns. Keys can either be integers or column labels

`true_values` : list, default None

Values to consider as True

`false_values` : list, default None

Values to consider as False

`skipinitialspace` : boolean, default False

Skip spaces after delimiter.

`skiprows` : list-like or integer, default None

Line numbers to skip (0-indexed) or number of lines to skip (int) at the start of the file

`skipfooter` : int, default 0

Number of lines at bottom of file to skip (Unsupported with engine='c')

`skip_footer` : int, default 0

DEPRECATED: use the `skipfooter` parameter instead, as they are identical

`nrows` : int, default None

Number of rows of file to read. Useful for reading pieces of large files

`na_values` : scalar, str, list-like, or dict, default None

Additional strings to recognize as NA/NaN. If dict passed, specific per-column NA values. By default the following values are interpreted as NaN: `'', '#N/A', '#N/A N/A', '#NA', '-1.#IND', '-1.#QNAN', '-NaN', '-nan', '1.#IND', '1.#QNAN', 'N/A', 'NA', 'NULL', 'NaN', 'nan'`.

`keep_default_na` : bool, default True

If `na_values` are specified and `keep_default_na` is False the default NaN values are overridden, otherwise they're appended to.

`na_filter` : boolean, default True

Detect missing value markers (empty strings and the value of `na_values`). In data without any NAs, passing `na_filter=False` can improve the performance of reading a large file

`verbose` : boolean, default False

Indicate number of NA values placed in non-numeric columns

`skip_blank_lines` : boolean, default True

If True, skip over blank lines rather than interpreting as NaN values

`parse_dates` : boolean or list of ints or names or list of lists or dict, default False

- * boolean. If True -> try parsing the index.
- * list of ints or names. e.g. If [1, 2, 3] -> try parsing columns 1, 2, 3 each as a separate date column.
- * list of lists. e.g. If [[1, 3]] -> combine columns 1 and 3 and parse as a single date column.
- * dict, e.g. {'foo' : [1, 3]} -> parse columns 1, 3 as date and call result 'foo'

Note: A fast-path exists for iso8601-formatted dates.

`infer_datetime_format` : boolean, default False

If True and `parse_dates` is enabled, pandas will attempt to infer the format of the datetime strings in the columns, and if it can be inferred, switch

to a faster method of parsing them. In some cases this can increase the parsing speed by ~5-10x.

`keep_date_col` : boolean, default False

If True and `parse_dates` specifies combining multiple columns then keep the original columns.

`date_parser` : function, default None

Function to use for converting a sequence of string columns to an array of datetime instances. The default uses `dateutil.parser.parser` to do the conversion. Pandas will try to call `date_parser` in three different ways, advancing to the next if an exception occurs: 1) Pass one or more arrays (as defined by `parse_dates`) as arguments; 2) concatenate (row-wise) the string values from the columns defined by `parse_dates` into a single array and pass that; and 3) call `date_parser` once for each row using one or more strings (corresponding to the columns defined by `parse_dates`) as arguments.

`dayfirst` : boolean, default False

DD/MM format dates, international and European format

`iterator` : boolean, default False

Return `TextFileReader` object for iteration or getting chunks with `get_chunk()`.

`chunksize` : int, default None

Return `TextFileReader` object for iteration. See IO Tools docs for more information

<http://pandas.pydata.org/pandas-docs/stable/io.html#io-chunking> on `iterator` and `chunksize`.

`compression` : {'infer', 'gzip', 'bz2', 'zip', 'xz', None}, default 'infer'

For on-the-fly decompression of on-disk data. If 'infer', then use gzip, bz2, zip or xz if `filepath_or_buffer` is a string ending in '.gz', '.bz2', '.zip', or '.xz', respectively, and no decompression otherwise. If using 'zip', the ZIP file must contain only one data file to be read in. Set to None for no decompression.

.. versionadded:: 0.18.1 support for 'zip' and 'xz' compression.

`thousands` : str, default None

Thousands separator

`decimal` : str, default '.'

Character to recognize as decimal point (e.g. use ',' for European data).

`float_precision` : string, default None

Specifies which converter the C engine should use for floating-point values. The options are `None` for the ordinary converter, `high` for the high-precision converter, and `round_trip` for the round-trip converter.

`lineterminator` : str (length 1), default None

Character to break file into lines. Only valid with C parser.

`quotechar` : str (length 1), optional

The character used to denote the start and end of a quoted item. Quoted items can include the delimiter and it will be ignored.

`quoting` : int or `csv.QUOTE_*` instance, default 0

Control field quoting behavior per `csv.QUOTE_*` constants. Use one of

QUOTE_MINIMAL (0), QUOTE_ALL (1), QUOTE_NONNUMERIC (2) or QUOTE_NONE (3).

doublequote : boolean, default ``True``

When quotechar is specified and quoting is not ``QUOTE_NONE``, indicate whether or not to interpret two consecutive quotechar elements INSIDE a field as a single ``quotechar`` element.

escapechar : str (length 1), default None

One-character string used to escape delimiter when quoting is QUOTE_NONE.

comment : str, default None

Indicates remainder of line should not be parsed. If found at the beginning of a line, the line will be ignored altogether. This parameter must be a single character. Like empty lines (as long as ``skip_blank_lines=True``), fully commented lines are ignored by the parameter `header` but not by `skiprows`. For example, if comment='#', parsing '#empty\na,b,c\n1,2,3' with `header=0` will result in 'a,b,c' being treated as the header.

encoding : str, default None

Encoding to use for UTF when reading/writing (ex. 'utf-8'). `List of Python standard encodings`

<<https://docs.python.org/3/library/codecs.html#standard-encodings>>`_

dialect : str or csv.Dialect instance, default None

If None defaults to Excel dialect. Ignored if sep longer than 1 char

See csv.Dialect documentation for more details

tupleize_cols : boolean, default False

Leave a list of tuples on columns as is (default is to convert to a Multi Index on the columns)

error_bad_lines : boolean, default True

Lines with too many fields (e.g. a csv line with too many commas) will by default cause an exception to be raised, and no DataFrame will be returned. If False, then these "bad lines" will dropped from the DataFrame that is returned. (Only valid with C parser)

warn_bad_lines : boolean, default True

If error_bad_lines is False, and warn_bad_lines is True, a warning for each "bad line" will be output. (Only valid with C parser).

low_memory : boolean, default True

Internally process the file in chunks, resulting in lower memory use while parsing, but possibly mixed type inference. To ensure no mixed types either set False, or specify the type with the `dtype` parameter. Note that the entire file is read into a single DataFrame regardless, use the `chunksize` or `iterator` parameter to return the data in chunks. (Only valid with C parser)

buffer_lines : int, default None

DEPRECATED: this argument will be removed in a future version because its value is not respected by the parser

compact_ints : boolean, default False

DEPRECATED: this argument will be removed in a future version

If compact_ints is True, then for any column that is of integer dtype, the parser will attempt to cast it as the smallest integer dtype possible, either signed or unsigned depending on the specification from the

`use_unsigned` parameter.

use_unsigned : boolean, default False

DEPRECATED: this argument will be removed in a future version

If integer columns are being compacted (i.e. `compact_ints=True`), specify whether the column should be compacted to the smallest signed or unsigned integer dtype.

memory_map : boolean, default False

If a filepath is provided for `filepath_or_buffer`, map the file object directly onto memory and access the data directly from there. Using this option can improve performance because there is no longer any I/O overhead.

Returns

result : DataFrame or TextParser

In [66]:

```
df = pd.read_csv('/Users/Administrator/desktop/github/data_write_to_file.txt', sep = '\t', names = ['a', 'b', 'c'])
df[:5]
```

Out[66]:

	a	b	c
0	0	0	0
1	1	1	1
2	2	4	8
3	3	9	27
4	4	16	64

In [68]:

```
import json
data_dict = {'a':1, 'b':2, 'c':3}
with open('/Users/Administrator/desktop/github/save_dict.json', 'w') as f:
    json.dump(data_dict, f)
```

In [70]:

```
dd = json.load(open("/Users/Administrator/desktop/github/save_dict.json"))
dd
```

Out[70]:

```
{u'a': 1, u'b': 2, u'c': 3}
```

In [72]:

```
data_list = range(10)
with open('/Users/Administrator/desktop/github/save_list.json', 'w') as f:
    json.dump(data_list, f)
```

In [73]:

```
dl = json.load(open("/Users/Administrator/desktop/github/save_list.json"))
```

```
dl
```

Out[73]:

```
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

In [74]:

```
import dill # pip insstall dill

# http://trac.mystic.cacr.caltech.edu/project/pathos/wiki/dill

def myFunction(num):

    return num,num

with open('/Users/Administrator/desktop/github/data.pkl', 'wb') as f:

    dill.dump(myFunction, f)
```

In [75]:

```
with open('/Users/Administrator/desktop/github/data.pkl', 'r') as f:

    newFunction = dill.load(f)#, strictio=strictio)

newFunction('hello')
```

Out[75]:

```
('hello', 'hello')
```