

Files Python Cheat Sheet by exotic via cheatography.com/146713/cs/31784/

File Modes	File Modes					
Method/Keyword	Meaning					
r	Opens a file for reading only. The file pointer is placed at the beginning of the file. This is the default mode .					
w	Opens a file for writing only, truncating the file first. Overwrites the file if the file exists. If the file does not exist, creates a new file for writing.					
x	Opens for exclusive creation, failing if the file already exists					
a	Opens a file for writing/appending. The file pointer is at the end of the file if the file exists. That is, the file is in the append mode. If the file does not exist, it creates a new file for writing.					
+	Open for updating (reading and writing)					
r+	Opens a file for both reading and writing. The file pointer placed at the beginning of the file.					
a+	Opens a file for both appending and reading. The file pointer is at the end of the file if the file exists. The file opens in the append mode. If the file does not exist, it creates a new file for reading and writing					
w+	Opens a file for both writing and reading. Overwrites the existing file if the file exists. If the file does not exist, creates a new file for reading and writing.					
b	Binary mode					
sdffds	kjhljhk					
kjhjhk	hjkjkh					
hjkjkh	hjkjh					
hkjjkh	jhkjhkhjk					
ghjkghj	hgjhjghjg					
hjghjghjhjghgj	jhgghjghjhgj					
ghghjhjg	jghghj					
jghjhgjhg	hgjjhgghj					
ghjghjghj	hgjghjghj					
jhgghjghj	hjgjhgghjjh					
ghjhgjghj	hgjhjg					
jhggjhjhg	hgjjhgjhg					
gjhjhghjg	hgjhjgjhg					
ghjghjgjh	ghjhjghjg					
jghjhghgj	ghjhjgjghjgh					
ghgjhgjh	ghjjhgjhg					
ghjghgjhjg	hgjjghgjh					
ghjjghgjh	hgjjghjghghj					
hjghjgjghjhg	jjhggjhhjg					
jhghjghjggjh	hjghgjjghjhg					



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File Modes (cont)	
gjhhjgjgh	hgjjhghjg
hjghgjgjhgjh	hjgjhgjhgghj
hgjhjgghjghj	jhghgjhjghgj
hjgjhgjhg	hgjjhghjgjhg
jhgjhghjgjhghjg	ghjghjhgjgjhgjh
jhgghjhgjhjgjhg	hjghjghjgjhg

Functions						
Method/Keyword	Parameters	Uses				
open()	filename and open mode (optional)	create a file object by opening/creating the file in the specified read/write mode				
with	-	use it together with open(); closes the file after the suite completes				
read()	size (optional)	read the file up to the size specified if set				
readline()	size (optional)	read a single line with a size limit if set				
readlines()	size (optional)	create a list of the read lines with an optional size hint				
write()	the string	write the string to the file that is opened with a certain writeable mode				
writelines()	the list of strings	write the list of strings to the file that is opened with a certain writeable mode				
seek()	offset, whence=SEEK_SET	Change the stream position to the given byte offset				
truncate()	size=None	Resize the stream to the given size in bytes (or the current position if size is not specified).				

File Modes								
Start	Read	Write	Create	Truncate	Cursor			
r	*				Start			
W		*	*	*	Start			
а		*	*		End			
r+	*	*			Start			
W+	*	*	*	*	Start			
a+	*	*	*		End			
Х			*		Start			

readline()

```
with open('test.txt') as file:
        fil e.r ead line()
        fil e.r ead line(2) # 2 characters from
line 2
        fil e.r ead line(5) # 3 characters from
line 3
        fil e.r ead line()
        fil e.r ead line()
        '0 Start Line 0 - Line 0 End 0\n'
'1 '
'Start'
' Line 1 - Line 1 End 1\n'
'''
```

Writing a CSV File

```
big_list = [{'name': 'Fredrick Stein', 'userid':
6712359021, 'is_admin': False}]
import csv
with open(' out put.csv', 'w') as output _csv:
    fields = ['name', 'userid', 'is_ad min']
    out put _writer = csv.Di ctW rit er( out put -
    _csv, fieldn ame s=f ields)
    out put _wr ite r.w rit ehe ader()
    for item in big_list:
        out put wr ite r.w rit ero w(item)
```

Open CSV in write mode, define **fields**, instantiate CSV writer object and pass two arguments.

.writeheader() writes headers from fieldnames.

Read File

When the size argument is omitted or set as negative, or set as an

If you call the readline() method multiple times, the reading will be continued at where it was read last time.

readline() method can also take in a size parameter, which will be used as a limit for reading the line. Again, reading is continued at where it was read last time.

Write a File

The \mathbf{w} mode will truncate the file, and thus the file will only contain the new values. The \mathbf{a} mode will allow you to append new values to the existing file.

Printing the number of characters written can be suppressed by assigning the returned value to an underscore.

Reading Different Types of CSV

```
import csv

with open(' add res ses.csv', newlin e='') as
addres ses _csv:
   add res s_r eader = csv.Di ctR ead er( add -
res ses _csv, delimi ter =';')
   for row in addres s_r eader:
        pri nt( row ['A ddr ess'])
```

We change the delimiters to indicate where the different values start and stop. We pass **delimiter** parameter, which is used to delineate separate fields in the CSV. integer greater than the file size, all the file contents will be read.

Reading a file for the second time will return an empty string.

readlines()

```
with open('test.txt') as file:
    fil e.r ead lines()
    # file.r ead lin es(29) reads 29 charac -
ters, 30 reads whole of next line
['0 Start Line 0 - Line 0 End 0\n', '1 Start Line
1 - Line 1 End 1\n']
```

When size is set as a positive integer, it will read that many characters (or bytes in the binary mode) from the file and enough to complete that line.

writelines()

This method will take in a list of strings as the parameter. How the lines are written (e.g., overwriting or appending) using this method is similar to the implementation of the write() method.

What is a CSV File?

Comma-Separated Values are usually the way that data from spreadsheet is exported into a portable format.



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Reading a CSV File

```
import csv
list_o f_e mai l_a ddr esses = []
with open(' use rs.c sv', newlin e='') as
users_csv:
    use r_r eader = csv.Di ctR ead er( use rs_csv)
    for row in user_r eader:
        lis t_o f_e mai l_a ddr ess es.a pp end -
(ro w[' Ema il'])
```

We can convert data into a dictionary using *csv and its DictReader object.

newline=""" ensures that we don't mistake a line break in one of our data fields as a new row in CSV.



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