

### open()

**open()** ("filename","mode",encoding="UTF-8")

#### modes

"r" - Read (default) opens a file for reading, error if doesn't exist

"a" - Append opens a file for appending, creates the file if doesn't exist

"w" - Write opens a file for writing, creates the file if doesn't exist

"x" - Create creates the specified file, error if the file exists

"t" - Text (default) Text mode

"b" - Binary Binary mode

"+" - Read and Write mode opens a file to read or write

**Examples** "r+" "a+b" "w+b"

### read()

**read()** open() must have a read() method before.

file.read()

file.read(5) reads the first 5 characters

#### readline()

file.readline() returns one line of the file

file.readline(5) reads the first 5 characters of the line

file.readline() / file.read- calling readline two times, reads the two line() first lines

**readlines()** returns a list, each item is a line as a string

**for line in file** loops through the chars or lines of the file  
*use .strip() to remove "\n"*

### write()

**write()** open method "a" will append to end of file

open method "w" will overwrite the entire file

file.write("text")

**create a new file** open method "x" will create a file, error if it exists

open method "a" will create a file if doesn't exist

open method "w" will create a file if doesn't exist

**writelines()** turns iterable object(lists,tuples,dict...) into lines in the file

### pointers

**seek(offset,whence=0))** changes the file position

file.seek(4) change the pointer to the 4 file position

[whence=] is optional, 0 is 0=start of file, 1=current position, 2= default file's end

**tell()** finds the file position

file.tell() returns the file position

### close()

**close()** always close the file when done

file.close()

### Modules

import os OS module

os.rename("oldname.txt", "new\_name.txt")

os.remove("file.txt")

os.path.exists("file.txt") or os.path.isfile() returns True or False

os.path.getsize("file.txt") return

os.path.getmtime("file.txt") returns a timestamp

os.path.abspath("file.txt") returns Absolute Path

os.getcwd show current working directory



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### Modules (cont)

<code>os.mkdir("new_dir")</code>	create new directory in the current dir
<code>os.chdir("dir")</code>	change working directory
<code>os.rmdir("dir")</code>	removes empty directory / error if there is files in it
<code>os.listdir</code>	return a list of files e subdirectories in the dir
<code>os.path.isdir</code>	
<code>os.path.join</code>	
<code>import datetime</code>	Datetime Module
<code>datetime.date</code>	
<code>os.path module docs</code>	<a href="https://docs.python.org/3/library/os.path.html">https://docs.python.org/3/library/os.path.html</a>
<code>os module docs</code>	<a href="https://docs.python.org/3/library/os.html">https://docs.python.org/3/library/os.html</a>
<code>datetime module docs</code>	<a href="https://docs.python.org/3/library/datetime.html">https://docs.python.org/3/library/datetime.html</a>



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