

# Working with Files

## Cheat Sheet

### Working with Files in Python

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```
# Open a file named a.txt and return a file object called f
# a.txt it's in the same directory with the python script
f = open('a.txt', 'r') # it opens the file in read-only mode

content = f.read() # reads the entire file as a string
print(content)

f.closed # => False, file is not closed

# Close the file
f.close()

## Open the file in read-only mode and reads its contents as a list
## the file object will be automatically closed
with open('a.txt', 'r') as my_file:
    content = my_file.readlines() # content is a list

my_file.closed # => True, my_file has been closed automatically

# file object is an iterable object
with open('a.txt', 'r') as my_file:
    for line in my_file: #iterating over the lines within the file
        print(line, end="")

# Open the file in write-only mode.
# Create the file if it doesn't exist or overwrite the file if it already exists
with open('my_file.txt', 'w') as file:
    file.write('This file will be overwritten!')

# Open the file in append-mode.
# Create the file if it doesn't exist or append to it if it exists
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```
with open('another_file.txt', 'a') as file:
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```
    file.write('Appending to the end!')
```

```
# Open the file for both read and write
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```
# Do not create the file if it doesn't exist
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```
with open('my_file.txt', 'r+') as file:
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```
    file.seek(0) # the cursor is positioned at the beginning of the file
```

```
    file.write('Writing at the beginning') # writing at the beginning
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```
file.seek(5) # moving the cursor at position 5
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```
content = file.read(10) # reading 10 characters starting from position 5
```

```
print(content)
```