

NUS AI SUMMER EXPERIENCE 2019

READING AND WRITING FILES

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Open File, Read Contents

- Open file
 - Name and path of file
 - Make it a read “r” file
- Assign to file object
- `.read()` the file object
 - Whole file
- Or `.readline()`
 - Line by line

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View Content and Format

- Len
- Print
- Slicing using index

Message Content

- Select
- Operate

Open File, Close File

- Open file
 - Name and path
 - Type of file
- What do you want?
 - Write('w') – overwrite existing data in file
 - Append('a') – keeps existing data
- Close file

Writing to file

- Write
 - Value of variables
 - Strings
 - Format statements included

Redirecting Standard Output

- Python default standard output (stdout) is console
- Any output statement is to console
- Redirect the stdout to a file
- Any output statement will be to this file
- Remember to reset the stdout to default

Encoding

- All files incorporate encoding schemes
- Python read has default encoding – ‘utf-8’
- Mismatch
 - Find out the file’s encoding scheme
 - Explicitly define the encoding scheme to use in reading file



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