File Manipulation using Python
Demo

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11/9/2018

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Agenda

- Create folders
- Create and save files
- Open existing files
- Search files

Operating System Interface

import os   #imports the os interface module

dir(os)   #returns a list of module's
  functions

help(os)   #returns an extensive manual
  page

Working Directory

- Knowing where we are

  os.getcwd()   *# get current working directory*

  '/Users/Jerry/tf-tutorial'

  os.path.dirname(path)

  os.getcwd().split('/')[-1]

  'test dir'

  os.chdir('./test') *# change current working directory*

- Create new directory

  os.mkdir('test') # create directory named "test"

- Delete directory

os.rmdir('test') # delete directory named "test"

File Operations

- Create new file

    file = open("test_1.txt", "w")

- Write content into the file

    file.write("Hello World\n")

- Close the file

    file.close()

Operations in Directory

- List files in the directory

  os.listdir() # list all files in the directory

  ['dir1', 'test_1.txt']

- Path operations
  – os.path.join(original_path, fname)
  #Join one or more path components intelligently
  – os.path.isdir(*path*)
  – os.path.isfile(*path*)
  – os.path.getsize(*path*)
  – os.path.getmtime(*path*)
  – os.path.getatime(*path*)
  – os.path.getctime(*path*)

Thank you