Cheatography

Python 3.x modules Cheat Sheet

by Zoltan via cheatography.com/35548/cs/11169/

random

random.randint(a,b)	generate random number N a<=N<=b
random.shuffle(list)	shuffles elements of a list

sys

sys.argv	argument list
sys.exit()	terminate program

File manipulation

obj=open('path','mode')	opens a file and returns a file object
with open('file',mode) as obj	same as open but closes file automatically
obj.readlines()	read lines of a text file
obj.write('string')	writes string to text file
obj.close()	closes obj file object
obj.shelve.open('filename')	open a persistent dictionary

modes: 'r','w','a','rb','wb'

copy

copy.copy(obj)	makes copy of mutable obj (list or dict)
copy.deepcopy(obj)	makes a copy of objs inside obj recursively

pprint (pretty print)

pprint.pprint(obj)	prints the formatted object on stream
pprint.pformat(obj)	Returns the formatted object as a string

send2trash

send2trash.send2trash('file')	sends file to recycle bin

zipfile

obj=zipfile.zipfile('file.zip')	opens file obj to compress file.zip
obj.write('file.txt',compress_type=zipfile.ZIP_DEFLATED)	
obj.extractall('file.zip')	extracts files from zip file
obj.close()	closes compress and extract file obj
obj.namelist()	return a list of archive members by name
info=obj.getinfo('file.zip')	Return info about the archived file

zipfile (cont)

info.file_size	returns original file size in bytes
info.compress_size	returns the compressed file size

os

os.chdir('path')	change firectory
os.getcwd()	get current working dir
os.listdir('path')	returns list of filename strings in 'path'
os.makedirs('path')	recursive directory creation
os.rmdir('path')	deletes the directory path if empty
os.path.abspath('p-ath')	returns string w/absolute path
os.path.basename('-path')	returns the filename of the path
os.path.dirname('p-ath')	returns the directory name of pathname path
os.path.exists('path')	returns True if path refers to existing path
os.path.getsize('path')	returns filesize in bytes of the file in path
os.path.isabs('path')	returns True if path is absolute
os.path.isdir('path')	returns True if path is an existing directory
os.path.isfile('path')	returns True if path is an existing file
os.path.join()	join strings into a file path
os.path.relpath('path')	returns relative path string
os.path.split('path')	returns a tuple w/path separated from basename
os.unlink('path')	delete file at path (irreversible)
os.walk('path')	returns list of strings for path,subdirs,files vars

Path format in windows - 'Drive:\\Dir'

pyperclip (copies data to clipboard)

pyperclip.copy(obj)	copies obj to clipboard
pyperclip.paste()	pastes clipboard content

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requests	
r=requests.get('url')	downloads url contents
r.raise_for_status()	raise exception if download fails
r.status.code()	returns request status code
r.headers['content-type']	returns headers
r.encoding	returns encoding format
r.content	response content in a raw string format
r.text()	decodes server response
r.json()	returns a decoded json obj
r.history	tracks redirection 302 if redirected
r.url	returns requested url
r.iter_content(N)	returns "chunks of N bytes" per iteration
requests.post('url',data={'key':'-value'})	pos request

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