Module	Description	Example	Script
collections	defaultdict, creating for lists	by_zone = defaultdict(list)	g10/demo.py
collections	defaultdict, importing	from collections import defaultdict	g10/demo.py
core	dictionary, adding a new entry	co['po'] = 'CO'	g05/demo.py
core	dictionary, checking for existing key	if fips in name_by_fips:	g09/demo.py
core	dictionary, creating	$co = \{ `name' : `Colorado', \ `capital' : `Denver' \}$	g05/demo.py
core	dictionary, deleting an entry	del name_by_fips["00"]	${ m g09/demo.py}$
core	dictionary, iterating over keys	for fips in name_by_fips.keys():	g09/demo.py
core	dictionary, iterating over values	for rec in name_by_fips.values():	g09/demo.py
core	dictionary, looking up a value	name = ny[`name']	g05/demo.py
core	dictionary, making a list of	list1 = [co,ny]	g05/demo.py
core	dictionary, obtaining a list of keys	$names = super\_dict.keys()$	g05/demo.py
core	dictionary, sorting keys	for tz in sorted( by_zone.keys() ):	g10/demo.py
core	f-string, using a formatting string	print( f"PV of {payment} with T={year} and r={r} is $p$	g07/demo.py
core	file, closing	fh.close()	g02/demo.py
core	file, opening for reading	fh = open('states.csv')	g05/demo.py
core	file, opening for writing	fh = open(filename, "w")	g02/demo.py
core	file, output using print	<pre>print("It was written during",year,file=fh)</pre>	g02/demo.py
core	file, output using write	fh.write("Where was this file was written?\n")	g02/demo.py
core	file, print without adding spaces	<pre>print( '\nOuter:\n', join_o['_merge'].value_counts(), s</pre>	g15/demo.py
core	file, reading one line at a time	for line in fh:	g05/demo.py
core	for, looping through a list	for n in a_list:	g04/demo.py
core	function, calling	$d1\_ssq = sumsq(d1)$	g06/demo.py
core	function, calling with an optional argument	sample_function( 100, 10, r=0.07 )	g07/demo.py
core	function, defining	def sumsq(values):	g06/demo.py
core	function, defining with optional argument	def sample_function(payment,year,r=0.05):	g07/demo.py
core	function, returning a result	return values	g06/demo.py
core	if statement, testing for equality	if fips == "36":	g09/demo.py
core	list, appending an element	a_list.append("four")	g03/demo.py
core	list, create via comprehension	cubes = $[n**3]$ for n in a_list]	g04/demo.py
core	list, creating	a_list = ["zero", "one", "two", "three"]	g03/demo.py

core list, extending with another list a_list.extend(a_more) g03/demo.py core list, generating a sequence b_list = range(1,6) g04/demo.py core list, selecting an element print(a_list(1)) g03/demo.py core list, selecting elements 0 to 3 print(a_list(1)) g03/demo.py core list, selecting elements 1 to 2 print(a_list(1)) g03/demo.py core list, selecting elements 1 to 2 print(a_list(1)) g03/demo.py core list, selecting elements 1 to the end print(a_list(1)) g03/demo.py core list, selecting lements 1 to the end print(a_list(1:3)) g03/demo.py core list, selecting lements 1 to the end print(a_list(1:3)) g03/demo.py core list, selecting lements 1 to to the end print(a_list(1:3)) g03/demo.py core list, selecting the last element print(a_list(1:3)) g03/demo.py core list, summing tot_inc = sum(incomes) g03/demo.py core list, summing tot_inc = sum(incomes) g03/demo.py core math, raising a number to a power rounded = round(ratio,2) g05/demo.py core string, concettanting name = s1+" "+s2+" +s3  g02/demo.py core string, converting to an int values append(int(line)) g05/demo.py core string, converting to title case name = codes[key].title() g11/demo.py core string, creating flename = "demo.txt" g02/demo.py core string, splitting on a comma parts = line split('.') core string, splitting on a romma parts = line split('.') core string, stripping blank space clean = [item.strip() for item in parts] g05/demo.py core tuple, creating this_tuple = (med_density.state) g10/demo.py core tuple, creating for the splitting of role, state) proper print(a_list(1)) g05/demo.py core tuple, sorting for lost with DictWriter for key in sorted(bo_density): core tuple, losping for key in sorted(codes): core tuple, testing equality of for key in sorted(bo_density): core tuple, losping a list for split freader object reader = csv.DictReader(fin) csv setting up a DictReader object reader = csv.DictReader(fine) csv using DictReader with a list reader = csv.DictReader(fine) csv usinting a lost blance role a survive backer() csv using bit calcer blickvirte	Module	Description	Example	Script
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core         list, joining with spaces         a_string = "".join(a_list)         g03/demo.py           core         list, selecting an element         print(a_list[l))         g03/demo.py           core         list, selecting elements 0 to 3         print(a_list[l,3])         g03/demo.py           core         list, selecting elements 1 to 2         print(a_list[1,3])         g03/demo.py           core         list, selecting lements 1 to the end         print(a_list[1,3])         g03/demo.py           core         list, selecting the last element         print(a_list[-1])         g03/demo.py           core         string, sun unmer         a_cubes.append(n**3)         g04/demo.py           core <t< td=""><td>core</td><td>list, extending with another list</td><td></td><td>g03/demo.py</td></t<>	core	list, extending with another list		g03/demo.py
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core string, including a newline character fh.write(name+"!\n") g02/demo.py core string, splitting on a comma parts = line.split(',') g05/demo.py core string, splitting on whitespace b_list = b_string.split() g03/demo.py core string, stripping blank space clean = [item.strip() for item in parts] g05/demo.py core tuple, creating this_tuple = (med_density,state) g10/demo.py core tuple, creating via split (last,first) = name.split(',') g11/demo.py core tuple, looping over for (den,state) in sorted(by_density): g10/demo.py core tuple, sorting for key in sorted(codes): g11/demo.py core tuple, testing equality of if key == (29, 'VA'): g11/demo.py core setting up a DictReader object reader = csv.DictReader(fh) g08/demo.py csv setting up a DictReader with a list reader = csv.DictReader(lines) g09/demo.py csv writing a header with DictWriter writeheader() g09/demo.py csv writing a header with DictWriter writeheader() g09/demo.py csv writing a header with DictWriter writeheader()	core	string, converting to title case	name = codes[key].title()	g11/demo.py
core string, splitting on a comma parts = line.split(',') g05/demo.py core string, splitting on whitespace b_list = b_string.split() g03/demo.py core string, stripping blank space clean = [item.strip() for item in parts] g05/demo.py core tuple, creating this_tuple = (med_density.state) g10/demo.py core tuple, creating via split (last.first) = name.split(',') g11/demo.py core tuple, looping over for (den,state) in sorted(by_density): g10/demo.py core tuple, sorting for key in sorted(codes): g11/demo.py core tuple, testing equality of if key == (29, 'VA'): g11/demo.py core tuple, testing up a DictReader object reader = csv.DictReader(fh) g08/demo.py csv setting up a DictReader object writer = csv.DictWriter(fh,fields) g09/demo.py csv using DictReader with a list reader = csv.DictReader(lines) g09/demo.py csv writing a header with DictWriter writeheader() g09/demo.py g09/demo.py g09/demo.py csv writing a header with DictWriter writeheader()	core	string, creating	filename = "demo.txt"	g02/demo.py
core string, splitting on whitespace b_list = b_string.split() g03/demo.py core string, stripping blank space clean = [item.strip() for item in parts] g05/demo.py core tuple, creating this_tuple = (med_density,state) g10/demo.py g11/demo.py core tuple, looping over for (den,state) in sorted(by_density): g10/demo.py core tuple, sorting for key in sorted(codes): g11/demo.py core tuple, testing equality of if key == $(29, \text{VA}')$ : g09/demo.py cove setting up a DictReader object reader = csv.DictReader(fh) g08/demo.py csv setting up a DictReader with a list reader = csv.DictReader(lines) g10/demo.py csv writing a header with DictWriter writeheader() g09/demo.py csv writing a header with DictWriter writeheader()	core	string, including a newline character	fh.write(name+"!\n")	g02/demo.py
	core	string, splitting on a comma		g05/demo.py
core tuple, creating this_tuple = (med_density,state) g10/demo.py core tuple, creating via split (last,first) = name.split(',') g11/demo.py core tuple, looping over for (den,state) in sorted(by_density): g10/demo.py core tuple, sorting for key in sorted(codes): g11/demo.py core tuple, testing equality of if key == (29, 'VA'): g11/demo.py core tuple, testing equality of the open(outfile, 'w', newline=") g09/demo.py core setting up a DictReader object reader = csv.DictReader(fh) g08/demo.py csv setting up a DictWriter object writer = csv.DictWriter(fh,fields) g09/demo.py csv using DictReader with a list reader = csv.DictReader(lines) g10/demo.py csv writing a header with DictWriter writeheader() g09/demo.py csv writing a header with DictWriter writeheader()	core	string, splitting on whitespace		g03/demo.py
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	core	string, stripping blank space	clean = [item.strip() for item in parts]	g05/demo.py
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	core	tuple, creating	${\sf this\_tuple} = ({\sf med\_density}, {\sf state})$	g10/demo.py
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	core	tuple, creating via split	(last,first) = name.split(`,`)	g11/demo.py
core tuple, testing equality of if key $== (29, {}^{\circ}VA')$ : g11/demo.py  csv opening a file for use with DictWriter fh = open(outfile, ${}^{\circ}W'$ , newline=") g09/demo.py  csv setting up a DictReader object reader = csv.DictReader(fh) g08/demo.py  csv setting up a DictWriter object writer = csv.DictWriter(fh, fields) g09/demo.py  csv using DictReader with a list reader = csv.DictReader(lines) g10/demo.py  csv writing a header with DictWriter writeheader() g09/demo.py	core	tuple, looping over	for (den,state) in sorted(by_density):	g10/demo.py
csv opening a file for use with DictWriter $fh = open(outfile, 'w', newline=")$ $g09/demo.py$ csv setting up a DictReader object reader = csv.DictReader(fh) $g08/demo.py$ csv setting up a DictWriter object writer = csv.DictWriter(fh, fields) $g09/demo.py$ csv using DictReader with a list reader = csv.DictReader(lines) $g10/demo.py$ csv writing a header with DictWriter writer.writeheader() $g09/demo.py$ $g09/demo.py$	core	tuple, sorting	for key in sorted(codes):	g11/demo.py
$\begin{array}{llllllllllllllllllllllllllllllllllll$	core	tuple, testing equality of	if key $==$ (29, 'VA'):	g11/demo.py
csv setting up a DictWriter object writer = csv.DictWriter(fh,fields) g09/demo.py csv using DictReader with a list reader = csv.DictReader(lines) g10/demo.py csv writing a header with DictWriter writerheader() g09/demo.py	CSV	opening a file for use with DictWriter	fh = open(outfile, 'w', newline=")	g09/demo.py
$\begin{array}{lll} \text{csv} & \text{using DictReader with a list} & \text{reader} = \text{csv.DictReader(lines)} & \text{g10/demo.py} \\ \text{csv} & \text{writing a header with DictWriter} & \text{writer.writeheader()} & \text{g09/demo.py} \\ \end{array}$	CSV	setting up a DictReader object	reader = csv.DictReader(fh)	g08/demo.py
csv writing a header with DictWriter writer.writeheader() g09/demo.py	CSV	setting up a DictWriter object	writer = csv.DictWriter(fh,fields)	g09/demo.py
· · · · · · · · · · · · · · · · · · ·	CSV	using DictReader with a list	reader = csv.DictReader(lines)	g10/demo.py
	CSV	writing a header with DictWriter	writer.writeheader()	g09/demo.py
	CSV	writing a record with DictWriter	writer.writerow(name_rec)	g09/demo.py

fiona fiona	importing the module		
	importing the module	import fiona	a24/domo ny
	list layers in a geopackage	layers = fiona.listlayers(demo_file)	g24/demo.py g24/demo.py
	път тауетъ пт а деораскаде	layers — Ilolia.listrayers(defilo_file)	g24/ demo.py
geopandas	adding a heatmap legend	slices.plot('s_pop',edgecolor='yellow',linewidth=0.2,le	g26/demo.py
geopandas	clip a layer	$zips\_clip = zips.clip(county,keep\_geom\_type=True)$	g24/demo.py
geopandas	combine all geographies in a layer	$water\_dis = water\_by\_name.dissolve()$	g24/demo.py
geopandas	combine geographies by attribute	$water\_by\_name = water.dissolve('FULLNAME')$	g24/demo.py
geopandas	computing areas	zips['z_area'] = zips.area	g26/demo.py
geopandas	construct a buffer	$near\_water = water\_dis.buffer(1600)$	g24/demo.py
geopandas	drawing a map	sel.plot('NAME',cmap='Dark2',ax=ax1)	g22/demo.py
geopandas	extracting geometry from a geodataframe	wv_geo = wv['geometry']	g22/demo.py
geopandas	importing the module	import geopandas as gpd	g22/demo.py
geopandas	merging data onto a geodataframe	conus = conus.merge(trim,on='STATEFP',how='left',valida	g22/demo.py
geopandas	obtaining coordinates	<pre>print( 'Number of points:', len(wv_geo.exterior.coords)</pre>	g22/demo.py
geopandas	overlaying a layer using union	slices = zips.overlay(county,how='union',keep_geom_type	g26/demo.py
geopandas	plotting a boundary	zips_clip.boundary.plot(color='black',linewidth=0.5,ax=	g24/demo.py
geopandas	project a layer	county = county.to_crs(epsg=utm18n)	g24/demo.py
geopandas	reading a shapefile	states = gpd.read_file("cb_2019_us_state_500k.zip")	g22/demo.py
geopandas	setting the color of a plot	county.plot(color='tan',ax=ax1)	g24/demo.py
geopandas	setting transparency via alpha	near_clip.plot(alpha=0.25,ax=ax1)	g24/demo.py
geopandas	spatial join, contains	c_contains_z = county.sjoin(zips,how='right',predicate=	g25/demo.py
geopandas	spatial join, crosses	<pre>i_crosses_z = inter.sjoin(zips,how='right',predicate='c</pre>	g25/demo.py
geopandas	spatial join, intersects	$z_{intersect_c} = z_{ips.sjoin}(county,how='left',predicate=$	g25/demo.py
geopandas	spatial join, overlaps	<pre>z_overlaps_c = zips.sjoin(county,how='left',predicate='</pre>	g25/demo.py
geopandas	spatial join, touches	<pre>z_touch_c = zips.sjoin(county,how='left',predicate='tou</pre>	g25/demo.py
geopandas	spatial join, within	z_within_c = zips.sjoin(county,how='left',predicate='wi	g25/demo.py
geopandas	testing if rows touch a geometry	touches_wv = conus.touches(wv_geo)	g22/demo.py
geopandas	writing a layer to a geodatabase	conus.to_file("conus.gpkg",layer="states")	g22/demo.py
io	converting a byte stream to characters	${\sf inp\_handle} = {\sf io.TextIOWrapper(inp\_byte)}$	g11/demo.py
json	importing the module	import json	g05/demo.py
json	using to print an object nicely	<pre>print( json.dumps(list1,indent=4) )</pre>	g05/demo.py
matplotlib	axes, setting a title	ax1.set_title('Population')	g13/demo.py
matplotlib	axis, labeling X axis	ax1.set_xlabel('Millions')	g13/demo.py

Module	Description	Example	Script
matplotlib	figure, saving	fig1.savefig('figure.png')	g13/demo.py
matplotlib	figure, tuning the layout	fig1.tight_layout()	g13/demo.py
matplotlib	importing pyplot	import matplotlib.pyplot as plt	g13/demo.py
matplotlib	setting a figure title	fig1.suptitle('Electric Power Plants in Onondaga and Os	g16/demo.py
matplotlib	setting the default resolution	plt.rcParams['figure.dpi'] = 300	g18/demo.py
matplotlib	using subplots to set up a figure	fig1, $ax1 = plt.subplots()$	g13/demo.py
numpy	computing a median	<pre>med_density = round( np.median(this_list), 2 )</pre>	g10/demo.py
numpy	importing	import numpy as np	g10/demo.py
os	delete a file	os.remove(out_file)	g24/demo.py
os	importing the module	import os	g24/demo.py
os	test if a file or directory exists	if os.path.exists(out_file):	g24/demo.py
pandas	RE, replacing a digit or space	$unit\_part = values.str.replace(r'\d \s',",regex=True)$	g23/demo.py
pandas	RE, replacing a non-digit or space	$value\_part = values.str.replace(r'\D \s',",regex=True)$	g23/demo.py
pandas	RE, replacing a non-word character	$units = units.str.replace(r' \backslash W',",regex = True)$	g23/demo.py
pandas	columns, dividing with explicit alignment	normed2 = 100*states.div(pa_row,axis='columns')	g12/demo.py
pandas	columns, listing names	<pre>print( '\nColumns:', list(states.columns) )</pre>	g12/demo.py
pandas	columns, renaming	$county = county.rename(columns = \{ 'B01001\_001E': 'pop' \})$	g14/demo.py
pandas	columns, retrieving one by name	pop = states['pop']	g12/demo.py
pandas	columns, retrieving several by name	<pre>print( pop[some_states]/1e6 )</pre>	g12/demo.py
pandas	dataframe, appending	gen_all = pd.concat( [gen_oswego, gen_onondaga] )	g16/demo.py
pandas	dataframe, dropping a column	$both = both.drop(columns='\_merge')$	g16/demo.py
pandas	dataframe, dropping duplicates	flood = flood.drop_duplicates( subset='TAX_ID' )	g15/demo.py
pandas	dataframe, finding duplicate records	$dups = parcels.duplicated(subset='TAX_ID', keep=False$	g15/demo.py
pandas	dataframe, inner 1:1 merge	$join_{L}i = parcels.merge(flood,$	g15/demo.py
pandas	dataframe, left 1:1 merge	$join_{L}I = parcels.merge(flood,$	g15/demo.py
pandas	dataframe, left m:1 merge	$both = gen\_all.merge(plants,$	g16/demo.py
pandas	dataframe, making a copy	subset_copy = sample[ keepvars ].copy()	g17/demo.py
pandas	dataframe, moving the index to a column	water_by_name = water_by_name.reset_index()	g24/demo.py
pandas	dataframe, outer 1:1 merge	$join\_o = parcels.merge(flood,$	g15/demo.py
pandas	dataframe, reading zipped pickle format	$sample 2 = pd.read\_pickle('sample\_pkl.zip')$	g17/demo.py
pandas	dataframe, resetting the index	$hourly = hourly.reset\_index()$	g18/demo.py
pandas	dataframe, right 1:1 merge	$join\_r = parcels.merge(flood,$	g15/demo.py

Module	Description	Example	Script
pandas	dataframe, saving in zipped pickle format	sample.to_pickle('sample_pkl.zip')	g17/demo.py
pandas	dataframe, selecting rows via boolean	dup_rec = flood[ dups ]	g15/demo.py
pandas	dataframe, selecting rows via query	ngcc = both.query("Technology == 'Natural Gas Fired Com	g16/demo.py
pandas	dataframe, sorting by a column	county = county.sort_values('pop')	g14/demo.py
pandas	dataframe, sorting by index	summary = summary.sort_index(ascending=False)	g16/demo.py
pandas	dataframe, unstacking an index level	bymo = bymo.unstack('month')	g18/demo.py
pandas	datetime, building via to_datetime()	date = pd.to_datetime(recs['ts'])	g15/demo.py
pandas	datetime, building with a format	$ymd = pd.to\_datetime(sample['TRANSACTION_DT'], format=$	g17/demo.py
pandas	datetime, extracting day attribute	recs['day'] = date.dt.day	g15/demo.py
pandas	datetime, extracting hour attribute	recs['hour'] = date.dt.hour	g15/demo.py
pandas	displaying all columns	pd.set_option('display.max_columns',None)	g17/demo.py
pandas	displaying all rows	pd.set_option('display.max_rows', None)	g12/demo.py
pandas	dropping rows using a list	$conus = states.drop(not\_conus)$	g22/demo.py
pandas	groupby, counting records via size	summary['units'] = tech_by_kv.size()	g16/demo.py
pandas	groupby, summing a variable	state = county.groupby('state')['pop'].sum()	g14/demo.py
pandas	groupby, using with one grouping variable	by_reg = state_data.groupby('Region')	g13/demo.py
pandas	importing the module	import pandas as pd	g12/demo.py
pandas	index, creating with two-levels	county = county.set_index(['state','county'])	g14/demo.py
pandas	index, listing names	<pre>print( '\nIndex (rows):', list(states.index) )</pre>	g12/demo.py
pandas	index, renaming values	div_pop = div_pop.rename(index=div_names)	g13/demo.py
pandas	index, retrieving a row by name	pa_row = states.loc['Pennsylvania']	g12/demo.py
pandas	index, retrieving first rows by location	print( low_to_high.iloc[ 0:10 ] )	g12/demo.py
pandas	index, retrieving last rows by location	print( low_to_high.iloc[ -5: ] )	g12/demo.py
pandas	index, setting to a column	<pre>new_states = states.set_index('name')</pre>	g12/demo.py
pandas	index, setting to a column in place	states.set_index('name',inplace=True)	g12/demo.py
pandas	plotting, bar plot	$reg_pop.plot.bar(ax=ax1)$	g13/demo.py
pandas	plotting, disabling legend	summary.plot.barh(y='mw',ax=ax1,legend=None)	g16/demo.py
pandas	plotting, horizontal bar plot	div_pop.plot.barh(ax=ax1)	g13/demo.py
pandas	reading, csv data	$states = pd.read\_csv('state-data.csv')$	g12/demo.py

Module	Description	Example	Script
pandas	reading, csv using dtype	geocodes = pd.read_csv('state-geocodes.csv',dtype=str)	g13/demo.py
pandas	series, applying a function to each element	name_clean = name_parts.apply(' '.join)	g23/demo.py
pandas	series, combining via where()	mod['comb_units'] = unit_part.where( unit_part!=" , mo	g23/demo.py
pandas	series, converting strings to title case	fixname = subset_view['NAME'].str.title()	g17/demo.py
pandas	series, converting to float	$sample['dollars'] = sample['TRANSACTION\_AMT'].astype(fl$	g17/demo.py
pandas	series, converting to lower case	name = mod['name'].str.lower()	g23/demo.py
pandas	series, element-by-element or	is_either = is_ca   is_tx	g17/demo.py
pandas	series, filling missing values	<pre>mod['comb_units'] = mod['comb_units'].fillna('feet')</pre>	g23/demo.py
pandas	series, removing spaces	units = units.str.strip()	g23/demo.py
pandas	series, replacing values using a dictionary	units = units.replace(spellout)	g23/demo.py
pandas	series, retrieving an element	<pre>print( "\nFlorida's population:", pop['Florida']/1e6 )</pre>	g12/demo.py
pandas	series, sorting by value	<pre>low_to_high = normed['med_pers_inc'].sort_values()</pre>	g12/demo.py
pandas	series, splitting strings on whitespace	name_parts = name.str.split()	g23/demo.py
pandas	series, summing	$reg\_pop = by\_reg['pop'].sum()/1e6$	g13/demo.py
pandas	series, unstacking	$tot\_wide = tot\_amt.unstack('PGI')$	g17/demo.py
pandas	series, using isin()	fixed = flood['TAX_ID'].isin(`dup_rec['TAX_ID'] )	g15/demo.py
pandas	series, using value_counts()	$print( \ '\nOuter:\n', join\_o['\_merge'].value\_counts(), \ s. \ .$	g15/demo.py
pandas	setting the index keeping the column	$states = states.set\_index(`STUSPS',drop=False)$	g22/demo.py
pandas	using head to select initial records	<pre>print( water['FULLNAME'].value_counts().head() )</pre>	g24/demo.py
pandas	using qcut to create deciles	dec = pd.qcut(county['pop'], 10, labels=range(1,11))	g14/demo.py
pandas	using the shape attribute	print( 'number of rows, columns:', conus.shape )	g22/demo.py
pandas	using xs to select from an index	<pre>print( county.xs('04',level='state') )</pre>	g14/demo.py
requests	calling the get() method	response = requests.get(api,payload)	g19/demo.py
requests	checking the URL	print( 'url:', response.url )	g19/demo.py
requests	checking the response text	print( response.text )	g19/demo.py
requests	checking the status code	print( 'status:', response.status_code )	g19/demo.py
requests	decoding a JSON response	rows = response.json()	g19/demo.py
requests	importing the module	import requests	g19/demo.py
scipy	calling newton's method	<pre>cr = opt.newton(find_cube_root,xinit,maxiter=20,args=[y</pre>	g07/demo.py
scipy	importing the module	import scipy.optimize as opt	g07/demo.py
seaborn	adding a title to a grid object	jg.fig.suptitle('Distribution of Hourly Load')	g18/demo.py

Module	Description	Example	Script
seaborn	barplot	sns.barplot(data=hourly,x='hour',y='usage',hue='month',	g18/demo.py
seaborn	basic violin plot	sns.violinplot(data=janjul,x="month",y="usage")	g18/demo.py
seaborn	boxenplot	sns.boxenplot(data=janjul,x="month",y="usage")	g18/demo.py
seaborn	calling tight_layout on a grid object	jg.fig.tight_layout()	g18/demo.py
seaborn	drawing a heatmapped grid	sns.heatmap(data,annot=True,fmt=".0f",ax=ax1)	g20/demo.py
seaborn	importing the module	import seaborn as sns	g18/demo.py
seaborn	joint distribution hex plot	jg = sns.jointplot(data=bymo,x=1,y=7,kind='hex')	g18/demo.py
seaborn	setting axis titles on a grid object	jg.set_axis_labels('January','July')	g18/demo.py
seaborn	setting the theme	sns.set_theme(style="white")	g18/demo.py
seaborn	split violin plot	sns.violinplot(data=eights,x="hour",y="usage",hue="mont	g18/demo.py
zipfile	creating a ZipFile object	$zip\_object = zipfile.ZipFile(zipname)$	g11/demo.py
zipfile	importing module	import zipfile	g11/demo.py
zipfile	opening a file in a zip in bytes mode	<pre>inp_byte = zip_object.open(csvname)</pre>	g11/demo.py