Modules

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CONTENTS

1 apis package **1**
- 1.1 Submodules . . . 1
- 1.2 apis.facebook_api module . . . 1
- 1.3 apis.flickr_api module . . . 1
- 1.4 apis.instagram_api module . . . 1
- 1.5 apis.twitter_api module . . . 1
- 1.6 Module contents . . . 2

2 config module **3**

3 flickr_analysis module **5**

4 geo module **7**

5 secrets module **9**

6 store module **11**

7 twitter_analysis module **13**

8 utils module **15**

Python Module Index **17**

Index **19**

CHAPTER

ONE

APIS PACKAGE

1.1 Submodules

1.2 apis.facebook_api module

1.3 apis.flickr_api module

Classes and functions which abstract over the flickr api.

class apis.flickr_api.**FlickrQuery**(*tags=None*, *woe_id=None*, *year=None*, *only_geotagged=False*)

Bases: *apis.Query*

class apis.flickr_api.**PhotoCollection**(*iterator*)

count_photos()

get_random_link()

to_points()

apis.flickr_api.**count_photos**(*query*)

apis.flickr_api.**get_photo_collection**(*query*, *per_page=200*)

apis.flickr_api.**get_points**(*query*, *per_page=200*)

apis.flickr_api.**print_places**(*query*)

apis.flickr_api.**retrieve_place_name**(*woe_id*)

1.4 apis.instagram_api module

1.5 apis.twitter_api module

Defines important classes Tweet, TwitterSearchQuery, and TwitterStreamingQuery. Enable downloading tweets for search queries and to start streaming with filtering according to a given TwitterStreamingQuery.

class apis.twitter_api.**PrintingListener**

Bases: *apis.twitter_api.TwitterStreamListener*

on_status(*status*)

class apis.twitter_api.**StoringListener**(*status_handler*)
Bases: *apis.twitter_api.TwitterStreamListener*

on_connect()

on_status(*status*)

class apis.twitter_api.**Tweet**(*status=None*)
Bases: object

class apis.twitter_api.**TwitterSearchQuery**(*place_id=None*, *date=None*)
Bases: *apis.Query*

class apis.twitter_api.**TwitterStreamListener**
Bases: tweepy.streaming.StreamListener

on_error(*status_code*)

class apis.twitter_api.**TwitterStreamingQuery**(*bounding_box*)
Bases: *apis.Query*

apis.twitter_api.**date_string_to_datetime**(*date*)

apis.twitter_api.**download_search_tweets**(*query*)

apis.twitter_api.**print_place_info**(*place_id*)

apis.twitter_api.**print_places**(*query_string*)

apis.twitter_api.**start_streaming**(*stream_listener*, *bounding_box=None*)

1.6 Module contents

class apis.**Query**
Bases: object

CHAPTER

TWO

CONFIG MODULE

CHAPTER

THREE

FLICKR_ANALYSIS MODULE

flickr_analysis.**compute_geotag_usage**()

flickr_analysis.**plot_normalized_tag_usage**(*tags=None*, *woe_id=None*, *save2docs=False*)

flickr_analysis.**plot_photos_per_year**(*woe_id=None*, *use_cache=False*, *save2docs=False*)

flickr_analysis.**plot_wsl_flooding_data**()

flickr_analysis.**save_map**(*queries, use_cache=False, n_bins=60, color_maps=[<matplotlib.colors.LinearSegmentedColormap object at 0x7fc04ab55610>, <matplotlib.colors.LinearSegmentedColormap object at 0x7fc04ab55650>, <matplotlib.colors.LinearSegmentedColormap object at 0x7fc04ab55690>], mix_points=False, formats=['png']*)

CHAPTER

FOUR

GEO MODULE

class geo.**BoundingBox**
Bases: object

class geo.**Map**(*bounding_box*, *map_resolution=<MapResolution.INTERMEDIATE: 1>*)
Bases: object

draw_densities(*points*, *n_bins*, *color_map='Blues'*)

draw_points(*points*)

save(*path*, *format='png'*)

show()

class geo.**MapResolution**
Bases: enum.Enum

class geo.**Point**
Bases: object

CHAPTER

FIVE

SECRETS MODULE

CHAPTER

SIX

STORE MODULE

class store.**StoreType**(*directory*)
Bases: object

store.**get_search_tweets**(*place_id*, *begin*, *end=None*, *use_cache=False*)

store.**read**(*query*, *store_type*)

store.**save**(*query*, *store_type*)

CHAPTER

SEVEN

TWITTER_ANALYSIS MODULE

class twitter_analysis.**Topic**(*terms*)
Bases: object

twitter_analysis.**contains_topic**(*tweet*, *topic*)

twitter_analysis.**plot_rain_data**()

twitter_analysis.**print_search_tweet_counts**(*place_id=None*, *begin_date=None*, *end_date=None*, *use_cache=False*)

twitter_analysis.**topic_distribution**(*topic=None*, *place_id=None*, *begin=None*, *end=None*, *use_cache=False*)

CHAPTER

EIGHT

UTILS MODULE

class utils.**Stopwatch**

Bases: object

start()

utils.**measure_download_time**(*query*, *per_page*)

utils.**print_totals**(*queries*)

a

apis, 2
apis.facebook_api, 1
apis.flickr_api, 1
apis.instagram_api, 1
apis.twitter_api, 1

c

config, 3

f

flickr_analysis, 5

g

geo, 7

s

secrets, 9
store, 11

t

twitter_analysis, 13

u

utils, 15

A

apis (module), 2
apis.facebook_api (module), 1
apis.flickr_api (module), 1
apis.instagram_api (module), 1
apis.twitter_api (module), 1

B

BoundingBox (class in geo), 7

C

compute_geotag_usage() (in module flickr_analysis), 5
config (module), 3
contains_topic() (in module twitter_analysis), 13
count_photos() (apis.flickr_api.PhotoCollection method), 1
count_photos() (in module apis.flickr_api), 1

D

date_string_to_datetime() (in module apis.twitter_api), 2
download_search_tweets() (in module apis.twitter_api), 2
draw_densities() (geo.Map method), 7
draw_points() (geo.Map method), 7

F

flickr_analysis (module), 5
FlickrQuery (class in apis.flickr_api), 1

G

geo (module), 7
get_photo_collection() (in module apis.flickr_api), 1
get_points() (in module apis.flickr_api), 1
get_random_link() (apis.flickr_api.PhotoCollection method), 1
get_search_tweets() (in module store), 11

M

Map (class in geo), 7
MapResolution (class in geo), 7
measure_download_time() (in module utils), 15

O

on_connect() (apis.twitter_api.StoringListener method), 2
on_error() (apis.twitter_api.TwitterStreamListener method), 2
on_status() (apis.twitter_api.PrintingListener method), 1
on_status() (apis.twitter_api.StoringListener method), 2

P

PhotoCollection (class in apis.flickr_api), 1
plot_normalized_tag_usage() (in module flickr_analysis), 5
plot_photos_per_year() (in module flickr_analysis), 5
plot_rain_data() (in module twitter_analysis), 13
plot_wsl_flooding_data() (in module flickr_analysis), 5
Point (class in geo), 7
print_place_info() (in module apis.twitter_api), 2
print_places() (in module apis.flickr_api), 1
print_places() (in module apis.twitter_api), 2
print_search_tweet_counts() (in module twitter_analysis), 13
print_totals() (in module utils), 15
PrintingListener (class in apis.twitter_api), 1

Q

Query (class in apis), 2

R

read() (in module store), 11
retrieve_place_name() (in module apis.flickr_api), 1

S

save() (geo.Map method), 7
save() (in module store), 11
save_map() (in module flickr_analysis), 5
secrets (module), 9
show() (geo.Map method), 7
start() (utils.Stopwatch method), 15
start_streaming() (in module apis.twitter_api), 2
Stopwatch (class in utils), 15
store (module), 11
StoreType (class in store), 11
StoringListener (class in apis.twitter_api), 1

T

to_points() (apis.flickr_api.PhotoCollection method), 1
Topic (class in twitter_analysis), 13
topic_distribution() (in module twitter_analysis), 13
Tweet (class in apis.twitter_api), 2
twitter_analysis (module), 13
TwitterSearchQuery (class in apis.twitter_api), 2
TwitterStreamingQuery (class in apis.twitter_api), 2
TwitterStreamListener (class in apis.twitter_api), 2

U

utils (module), 15