streetview

Module:	`streetview`
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This is a light module for downloading photos from Google street view. The functions allow you to retrieve current and **old** photos.

The photos on Google street view are panoramas and are refered to as such. However, you have the option of downloading flat photos, or panoramas.

Retrieving photos is a two step process. First, you must translate GPS coordinates into panorama ids. The following code retrieves a list of the closest panoramas giving you their id and date:

```
>>> import streetview
>>> panoids = streetview.panoids(lat, lon)
```

You can then use the panorama ids to download photos with the following function:

```
>>> streetview.api_download(panoid, heading, flat_dir, key)
```

streetview.api_download(*panoid, heading, flat_dir, key*)   [source]

Download an image using the official API. These are not panoramas.

Params:

panoid:	the panorama id
heading:	the heading of the photo. Each photo is taken with a 360 camera. You need to specify a direction in degrees as the photo will only cover a partial region of the panorama. The recommended headings to use are 0, 90, 180, or 270.
flat_dir:	the direction to save the image to.
key:	your API key.

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You can find instructions to obtain an API key here:

https://developers.google.com/maps/documentation/streetview/

streetview.download_tiles(*tiles, directory, disp=False*)   [source]

Downloads all the tiles in a Google Stree View panorama into a directory.

> **Params:**

> tiles - the list of tiles. This is generated by tiles_info(panoid). directory - the directory to dump the tiles to.

streetview.panoids(*lat, lon, disp=False*)   [source]

Gets the closest panoramas (ids) to the GPS coordinates.

streetview.stich_tiles(*panoid, tiles, directory, final_directory*)   [source]

Stiches all the tiles of a panorama together. The tiles are located in `directory'.

streetview.tiles_info(*panoid*)   [source]

Generate a list of a panorama's tiles and their position.

The format is (x, y, filename, fileurl)