1-panama-PRESENTACION

July 28, 2016

pip install pandas geocoder folium Addresses.csv

```
In [1]: import pandas
        adds = pandas.read_csv("data/Addresses.csv", dtype=str)
        adds.head()
Out[1]:
                                                     address
                -\t27 ROSEWOOD DRIVE #16-19 SINGAPORE 737920
                     "Almaly Village" v.5, Almaty Kazakhstan
        1
           "Cantonia" South Road St Georges Hill Weybridg...
           "CAY-OS" NEW ROAD; ST.SAMPSON; GUERNSEY; CHANN...
          "Chirag" Plot No 652; Mwamba Road; Kizingo; Mo...
                                    icij id
          6991059DFFB057DF310B9BF31CC4A0E6
        1 C65A269424AA1A8BBAC416FA30150938
        2 240EE44DFB70AF775E6CD02AF8CB889B
        3 340C6D3D2FC60AE58C53BB3618129C43
        4 6DBCD74F5AAB63EABC166885CE8CD7CD
                                               valid_until country_codes
        O The Panama Papers data is current through 2015
                                                                     SGP
        1 The Panama Papers data is current through 2015
                                                                     KAZ
          The Panama Papers data is current through 2015
                                                                     GBR
        3 The Panama Papers data is current through 2015
                                                                     GGY
          The Panama Papers data is current through 2015
                                                                     KEN
                countries node_id
                                          sourceID
        0
                Singapore 14000001 Panama Papers
        1
               Kazakhstan 14000002 Panama Papers
         United Kingdom 14000003 Panama Papers
        3
                 Guernsey 14000004 Panama Papers
                    Kenya 14000005 Panama Papers
In [2]: adds=adds[adds['countries']=='Chile']
        adds=adds[adds['address'].str.contains("Santiago")]
        adds.head()
```

```
Out [2]:
                                                        address \
       24883 Aguas Claras 220; Dept 61; Lo Barnechea; Santi...
       24887 Agustin del Castillo 2400; Depto. 501; Comuna ...
       25887 Alcalde Edo Castillo Velasco 2054; Ñuñoa; Sant...
       26105 Alonso de Sotomayor 4200; Dp. 503; Vitacura; S...
       26234 Amapolas 1625; Depto.605; Providencia; Santiag...
                                       icij_id \
       24883
              46749D72F7E660E52A483B3CA3EB7B70
       24887 C5E4806B33902C4F1F65D1856C3BB21A
       25887 777AAC999799D024AECAAE60BFD5C51B
       26105 52C2383B9B60D005B6B7E9214FF28B49
       26234 ED343556BD9F48DDAADC62CE76783001
                                                  valid_until country_codes
       24883 The Panama Papers data is current through 2015
                                                                        CHL
       24887 The Panama Papers data is current through 2015
                                                                        CHL
       25887 The Panama Papers data is current through 2015
                                                                        CHL
       26105 The Panama Papers data is current through 2015
                                                                        CHL
       26234 The Panama Papers data is current through 2015
                                                                        CHL
             countries node id
                                       sourceID
       24883
                 Chile 14025407 Panama Papers
       24887
                 Chile 14025411 Panama Papers
       25887
                 Chile 14026411 Panama Papers
       26105
                Chile 14026629 Panama Papers
                 Chile 14026758 Panama Papers
       26234
In [3]: import geocoder
       g = geocoder.google(u"Pdte Errazuriz 3485, Las Condes, Chile")
       print q.latlnq
[-33.4210835, -70.5918529]
In [4]: import folium
        import unicodedata
        coords = []
       0=x
        for name, row in adds.iterrows():
           x+=1
           if x > 200:
               break
           try:
               add= u"%s" % row['address']
               add = unicodedata.normalize('NFD', add).encode('ascii', 'ignore')
               g = geocoder.google(u"%s" % add)
               lat, lon = q.latlng
```

```
coords.append(tuple(g.latlng))
                print lat, lon
            except:
                print 'fail', add
                continue
-33.3582893 -70.5469872
-33.3905211 -70.5724124
fail Agustin del Castillo 2400; Depto. 501; Comuna de Vitacura; Santiago; Chile.
-33.378039 -70.6346786
-33.4303296 -70.5907291
fail Amapolas 1625; Depto.605; Providencia; Santiago; Chile.
fail Amapolas 1625; Depto.605; Providencia; Santiago; Chile.
-33.3742128 -70.6367425
-33.4098736 -70.7240893
-33.4488897 -70.6692655
-33.4488897 -70.6692655
fail Avenida del valle 961; Oficina 3705; Ciudad Empresarial Huechuraba; 8580710 Sa
-33.4421135 -70.7640644
-33.4510482 -70.6024573
-33.3975364 -70.5835587
-33.3400588 -70.5513969
-33.3703906 -70.5117619
-33.3758858 -70.5793991
-33.4484692 -70.6150504
-33.4054373 -70.5762715
-33.4087844 - 70.567069
fail C/El Convento 720; Comuna De Las Condes; Santiago Chile
fail Calle Asturias 280; oficina 701; Las Condes; Santiago de Chile; Rep. de Chile
-33.4437335 -70.6279455
-33.4151297 -70.5922177
fail Calle El Golf 40 piso 12, Las Condes Santiago de Chile
fail Calle El Golf 40 piso 12, Las Condes Santiago de Chile
-33.4586717 -70.5611267
fail Camberra 620; La Reina; Santiago; Chile.
-33.3243917 -70.5438346
-33.3958845 -70.5411324
-33.396093 -70.5411396
-33.411979 -70.5349449
fail Con domicilio en Rio Guadiana 9226; Las Condes; Santiago; Chile
fail Con domicilio en Rio Guadiana 9226; Las Condes; Santiago; Chile
-33.3548464 -70.5165236
fail Encomenderos 253; Oficina 12; Comunas de las Condes; Santiago de Chile; 755016
-33.3969263 -70.5995975
-33.3905211 -70.5724124
-33.4302275 -70.6177735
-33.2832474 -70.6345255
-33.4314935 -70.6230085
```

```
fail Huelen 56; Dpto.B; Proviencia; Santiago; Chile.
-33.4399766 -70.6531155
-33.4396961 -70.6516047
-33.4330125 -70.6234459
-33.4160087 -70.5668379
fail La Capitania 939 depto. 165; Las Condes; Santiago; Chile.
-33.4311581 -70.6025654
-33.4078266 -70.5758832
-33.3608369 -70.5273465
-33.3892541 -70.5884347
-33.4143118 -70.5935384
fail Magdalena 140; Piso 21; Las Condes; Santiago; Chile
fail Magdalena 140; Piso 21; Las Condes; Santiago; Chile
fail Magdalena 140; Piso 21; Las Condes; Santiago; Chile
-33.4438264 -70.6173071
-33.4293898 -70.6277326
-33.399852 -70.598181
-33.2824072 -70.7384418
fail Panamericana Norte 1890; Lampa Santiago; Chile
-33.3615798 -70.482196
fail Pastor Fernandez 16200 Lo Barnechea; Santiago; Chile
-33.4400089 -70.5483545
fail Principe de Gales 8007 A La Reina; Santiago; Chile.
fail Principe de Gales 8007 A La Reina; Santiago; Chile.
-33.4087844 -70.567069
-33.3291732 -70.7020092
fail San Ignacio 101; Quilicura; Santiago; Chile.
-33.4151832 -70.6006806
fail San Sebastien; 27-30 Appt; 31 Las Condes; Santiago; Chile
-33.3769042 -70.5832475
-33.4235788 -70.5776717
-33.3874219 -70.55135
-33.3943929 -70.5929228
-33.4143118 -70.5935384
-33.4314474 -70.6093325
-33.411979 -70.5349449
-33.518938 -70.7668647
-33.4087844 -70.567069
-33.4004057 -70.5290537
fail Camino Mirasol 1569; Santiago Las Condes; Chile
-33.4238329 -70.6224425
-33.4168157 -70.5985298
-33.3740683 -70.5470884
-33.4405776 -70.6453107
-33.3594861 -70.4825932
-33.3758394 -70.5773706
-33.4186107 -70.5919693
-33.545305 -70.6746371
```

```
-33.4202268 -70.6041302

-33.4556915 -70.6044907

-33.4315749 -70.6370635

-33.3845912 -70.534584

-33.4812278 -70.6341231

-33.3895687 -70.5408764

-33.4270004 -70.6125385

-33.3895687 -70.5408764

-33.4131274 -70.5913517

-33.4154993 -70.5953593
```

Stamen Toner

panama.html