## https://www.setlist.fm/search?query=scorpions (https://www.setlist.fm/search?query=scorpions)

```
In [4]:
          1 url = 'https://www.setlist.fm/search?query=scorpions'
          2 browser = RoboBrowser(history=True, parser='html5lib')
          3 browser.open(url)
          4 concert = browser.select('.setlistPreview')[0]
          5 concert
Out[4]: <div class="col-xs-12 setlistPreview">
        <div>
        <div class="condensed dateBlock">
        <span class="month">Nov</span>
        <span class="day">1</span>
        <span class="year">2017</span>
        </div>
        </div>
        <div>
        <h2><a href="setlist/scorpions/2017/olympijskiy-stadium-moscow-russia-23e36c7b.html" title="View this
         Scorpions setlist">Scorpions at Olympijskiy Stadium, Moscow, Russia</a></h2>
        <div class="details">
        <span>Artist: <strong><a href="setlists/scorpions-3d63ddf.html" title="More Scorpions setlists"><span>
        Scorpions</span></a></strong></span>,
        <span>
        Tour:
        <strong><a href="search?artist=3d63ddf&amp;query=tour:%28Crazy+World+2017+Tour%29" rel="nofollow" titl</pre>
          1 day = concert.select('.day')[0].text
In [5]:
          2 month = concert.select('.month')[0].text
          3 year = concert.select('.year')[0].text
          4 desc = concert.select('h2 a')[0].text
          5 print(day, month, year, desc)
        1 Nov 2017 Scorpions at Olympijskiy Stadium, Moscow, Russia
In [6]:
          1 \text{ idx} = \text{desc.find(' at ')+4}
          2 loc = desc[idx:]
          3 loc pieces = loc.split(',')
          4 if len(loc pieces)>=3:
                loc = ','.join(loc pieces[-3:])
          6 print(loc)
```

Olympijskiy Stadium, Moscow, Russia

```
In [7]: 1 g=geocoder.google(loc)
    print(g.geojson)
3
```

{ 'type': 'FeatureCollection', 'features': [{ 'type': 'Feature', 'properties': { 'accuracy': 'ROOFTOP', 'address': 'Olimpiyskiy pr., 16c1, Moskva, Russia, 129090', 'bbox': [37.6251080197085, 55.77970101970 85, 37.6278059802915, 55.7823989802915], 'city': 'Moskva', 'confidence': 9, 'country': 'RU', 'county': 'Moskva', 'housenumber': '16c1', 'lat': 55.78105, 'lng': 37.62645699999999, 'ok': True, 'place': 'ChIJ QcqpSw1KtUYRrBjnAynHt5E', 'postal': '129090', 'quality': 'establishment', 'raw': {'address\_component s': [{'long name': '16 строение 1', 'short name': '16c1', 'types': ['street number']}, {'long name': '0 limpiyskiy prospekt', 'short name': 'Olimpiyskiy pr.', 'types': ['route']}, {'long\_name': 'Tsentralnyy administrativnyy okrug', 'short name': 'Tsentralnyy administrativnyy okrug', 'types': ['political', 's ublocality', 'sublocality\_level\_1']}, {'long\_name': 'Moskva', 'short\_name': 'Moskva', 'types': ['local ity', 'political']}, {'long\_name': 'Moskva', 'short\_name': 'Moskva', 'types': ['administrative\_area\_le vel\_2', 'political']}, {'long\_name': 'Russia', 'short\_name': 'RU', 'types': ['country', 'political']}, {'long\_name': '129090', 'short\_name': '129090', 'types': ['postal\_code']}], 'formatted\_address': 'Olim piyskiy pr., 16c1, Moskva, Russia, 129090', 'geometry': {'location': {'lat': 55.78105, 'lng': 37.62645 699999999}, 'location type': 'ROOFTOP', 'viewport': {'northeast': {'lat': 55.7823989802915, 'lng': 37. 6278059802915}, 'southwest': {'lat': 55.7797010197085, 'lng': 37.6251080197085}}}, 'partial match': Tr ue, 'place id': 'ChIJQcqpSw1KtUYRrBjnAynHt5E', 'types': ['establishment', 'point of interest'], 'locat ion': {'lat': 55.78105, 'lng': 37.62645699999999}, 'location\_type': 'ROOFTOP', 'bounds': {}, 'northeas t': {'lat': 55.7823989802915, 'lng': 37.6278059802915}, 'southwest': {'lat': 55.7797010197085, 'lng': 37.6251080197085}, 'street\_number': {'long\_name': '16 строение 1', 'short\_name': '16c1'}, 'route': {'l ong name': 'Olimpiyskiy prospekt', 'short name': 'Olimpiyskiy pr.'}, 'political': {'long name': 'Russi a', 'short name': 'RU'}, 'sublocality': {'long name': 'Tsentralnyy administrativnyy okrug', 'short nam e': 'Tsentralnyy administrativnyy okrug'}, 'sublocality level 1': {'long name': 'Tsentralnyy administr ativnyy okrug', 'short name': 'Tsentralnyy administrativnyy okrug'}, 'locality': {'long name': 'Moskv a', 'short\_name': 'Moskva'}, 'administrative\_area\_level\_2': {'long\_name': 'Moskva', 'short\_name': 'Moskva'} kva'}, 'country': {'long\_name': 'Russia', 'short\_name': 'RU'}, 'postal\_code': {'long\_name': '129090', 'short name': '129090'}}, 'status': 'OK', 'street': 'Olimpiyskiy pr.', 'sublocality': 'Tsentralnyy ad ministrativnyy okrug'}, 'bbox': [37.6251080197085, 55.7797010197085, 37.6278059802915, 55.782398980291 5], 'geometry': {'type': 'Point', 'coordinates': [37.62645699999999, 55.78105]}}]}

```
In [8]: 1 code=g.geojson['features'][0]['properties']['country']
2 print(code)
```

RUS

```
In [10]:
           1 @memory.cache
           2 def get latlng(query):
           3
                 try:
           4
                      g=geocoder.google(query)
           5
                      if q:
           6
                          country = q.qeojson['features'][0]['properties']['country']
           7
                          code=countries.get(country).alpha3
           8
                          print(query, g.latlng, code)
           9
                          return g.latlng+[code]
          10
          11
                          return None, None, None
          12
                 except:
          13
                      return None, None, None
          14
          15
          16 @memory.cache
          17 def get data paged(query, page):
          18
                  url = 'https://www.setlist.fm/search?page={}&query={}'.format(page, query)
          19
                 browser.open(url.format(page))
          20
                 data = []
          21
                  for concert in browser.select('.setlistPreview'):
                      month = concert.select('.month')[0].text
          22
          23
                      day = concert.select('.day')[0].text
          24
                     year = concert.select('.year')[0].text
          25
                      datetext = "{}, {} {}".format(year, month, day)
          26
                      date = dateparser.parse(datetext)
          27
                      desc = concert.select('h2 a')[0].text
          28
                      idx = desc.find(' at ')+4
          29
                      loc = desc[idx:]
          30
                      loc pieces = loc.split(',')
                      #print(loc pieces[-1],country)
          31
          32
                      if loc == None:
          33
                          continue
          34
                      if len(loc pieces)>=3:
                          loc = ','.join(loc pieces[-3:])
          35
          36
                     lat, lng, code = get latlng(loc)
          37
                      if lat and lng:
          38
                          data.append([loc, lat, lng, code, date, desc])
          39
                 return data
          40
          41 columns = ['loc', 'lat', 'lon', 'code', 'date', 'desc']
          42 concerts = pd.DataFrame(columns = columns)
```

```
for page in range(1,15):
    data = get_data_paged('Scorpions', page)
    df = pd.DataFrame(data, columns = columns)
    concerts = concerts.append(df)
    concerts.head(20)
```

## Out[10]:

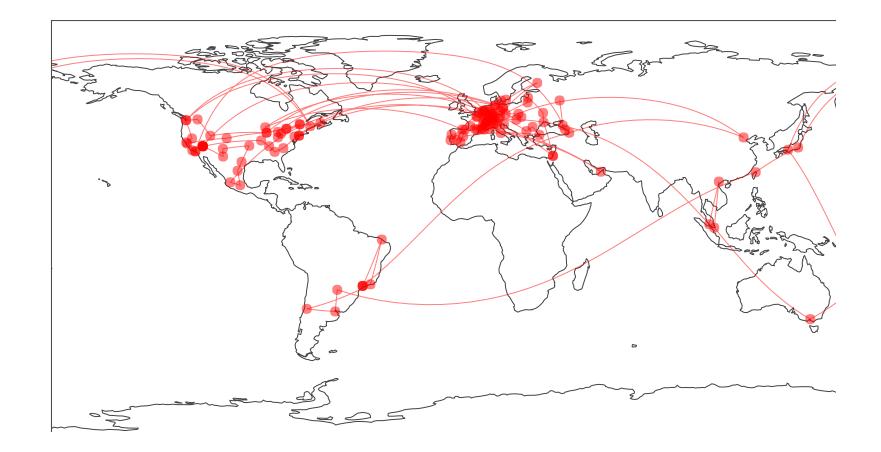
	loc	lat	lon	code	date	desc
0	Olympijskiy Stadium, Moscow, Russia	55.781050	37.626457	RUS	2017-11-01	Scorpions at Olympijskiy Stadium, Moscow, Russia
1	SK "Basket Hall", Krasnodar, Russia	45.117544	38.981297	RUS	2017-10-30	Scorpions at SK "Basket Hall", Krasnodar, Russia
2	Ledovaya Arena 'Shayba', Sochi, Russia	43.402260	39.951905	RUS	2017-10-28	Scorpions at Ledovaya Arena 'Shayba', Sochi, R
3	Inglewood, CA, USA	33.961680	-118.353131	USA	2017-10-07	Scorpions at The Forum, Inglewood, CA, USA
4	Oakland, CA, USA	37.804364	-122.271114	USA	2017-10-04	Scorpions at Oracle Arena, Oakland, CA, USA
5	Reno, NV, USA	39.529633	-119.813803	USA	2017-10-03	Scorpions at Grand Sierra Theatre, Reno, NV, USA
6	Tacoma, WA, USA	47.252877	-122.444291	USA	2017-09-30	Scorpions at Tacoma Dome, Tacoma, WA, USA
7	Spokane, WA, USA	47.658780	-117.426046	USA	2017-09-29	Scorpions at Spokane Arena, Spokane, WA, USA
8	West Valley, UT, USA	40.691613	-112.001050	USA	2017-09-26	Scorpions at USANA Amphitheatre, West Valley,
0	Rosemont, IL, USA	41.986751	-87.872160	USA	2017-09-23	Scorpions at Allstate Arena, Rosemont, IL, USA
1	Toronto, ON, Canada	43.653226	-79.383184	CAN	2017-09-22	Scorpions at Budweiser Stage, Toronto, ON, Canada
2	Laval, QC, Canada	45.606649	-73.712409	CAN	2017-09-19	Scorpions at Place Bell, Laval, QC, Canada
3	New York, NY, USA	40.712775	-74.005973	USA	2017-09-16	Scorpions at Madison Square Garden, New York,
4	Reading, PA, USA	40.335648	-75.926875	USA	2017-09-14	Scorpions at Santander Arena, Reading, PA, USA
5	Münsterplatz, Ulm, Germany	48.399008	9.991753	DEU	2017-07-23	Scorpions at Münsterplatz, Ulm, Germany
6	Guitare en scène Festival 2017	46.139233	6.071985	FRA	2017-07-19	Scorpions at Guitare en scène Festival 2017
7	Festival de Nîmes 2017	43.834904	4.359615	FRA	2017-07-17	Scorpions at Festival de Nîmes 2017
8	Festival Marés Vivas 2017	41.139685	-8.653662	PRT	2017-07-15	Scorpions at Festival Marés Vivas 2017
9	Albergue Municipal Juvenil El Prado, Mérida, S	38.930452	-6.401968	ESP	2017-07-14	Scorpions at Albergue Municipal Juvenil El Pra
0	Campos del Malecón, Torrelavega, Spain	43.350213	-4.062679	ESP	2017-07-12	Scorpions at Campos del Malecón, Torrelavega,

```
In [11]:
            1 import plotly.plotly as py
            3 great lines = [
            4
                      dict(
                          type = 'scattergeo',
            5
            6
                          lon = concerts['lon'],
            7
                          lat = concerts['lat'],
            8
                          mode = 'lines',
            9
                          line = dict(
           10
                                   width = 1,
           11
                                   color = 'rgba(255, 0, 0, 0.5)',
           12
                                   ),
           13
          14
          15 venue_markers = [ dict(
           16
                      type = 'scattergeo',
           17
                      lon = concerts['lon'],
           18
                      lat = concerts['lat'],
           19
                      hoverinfo = 'loc',
           20
                      text = concerts['loc'],
           21
                      mode = 'markers',
           22
                      marker = dict(
           23
                          size=10,
           24
                          color='rgba(255,0,0,0.5)',
           25
                      ))]
           26
           27 layout = dict(
           28
                      title = 'recitales',
           29
                      width = 1000,
           30
                      height = 800,
           31
                           showlegend = False,
           32
                          showland = True,
           33
           34
                          showcountries = True,
           35
                          showocean = True,
           36
                          countrywidth = 0.5,
           37
                          landcolor = '#fff',
           38
                          oceancolor = '#eee',
           39
           40
                      geo = dict(
           41
                          projection = dict(
           42
                               type = 'Mercator',
```

```
43
44
45
46
47
48 fig = dict( data=great_lines+venue_markers, layout=layout )
49 py.iplot( fig, validate=False, filename='d3-globe' )
```

Out[11]:

recitales



Out[12]:

loc	lat	lon	date	desc

code					
ARE	1	1	1	1	1
ARG	1	1	1	1	1
AUS	1	1	1	1	1
BEL	3	3	3	3	3
BGR	1	1	1	1	1
BRA	5	5	5	5	5
CAN	6	6	6	6	6
CHE	3	3	3	3	3
CHL	1	1	1	1	1
CHN	1	1	1	1	1
CZE	1	1	1	1	1
DEU	14	14	14	14	14
DNK	1	1	1	1	1
ESP	5	5	5	5	5
FIN	1	1	1	1	1
FRA	16	16	16	16	16
GEO	1	1	1	1	1
HUN	1	1	1	1	1
ISR	2	2	2	2	2
ITA	5	5	5	5	5

In [13]:

1 df=df.reset\_index()
2 df.head(20)

Out[13]:

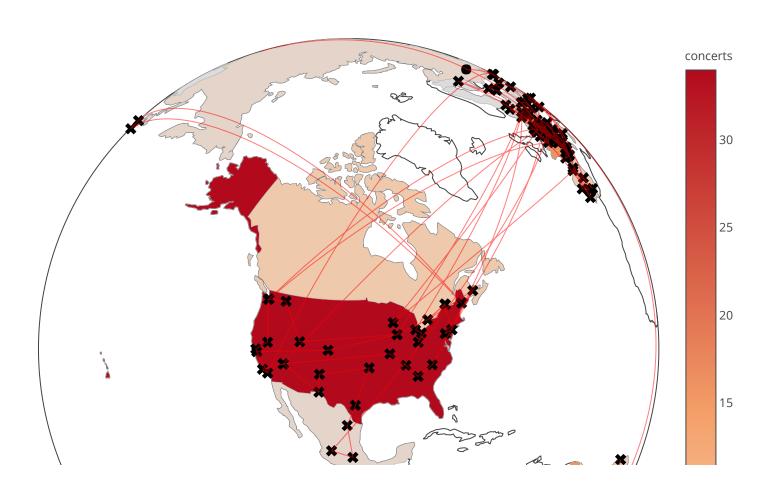
	code	loc	lat	lon	date	desc
0	ARE	1	1	1	1	1
1	ARG	1	1	1	1	1
2	AUS	1	1	1	1	1
3	BEL	3	3	3	3	3
4	BGR	1	1	1	1	1
5	BRA	5	5	5	5	5
6	CAN	6	6	6	6	6
7	CHE	3	3	3	3	3
8	CHL	1	1	1	1	1
9	CHN	1	1	1	1	1
10	CZE	1	1	1	1	1

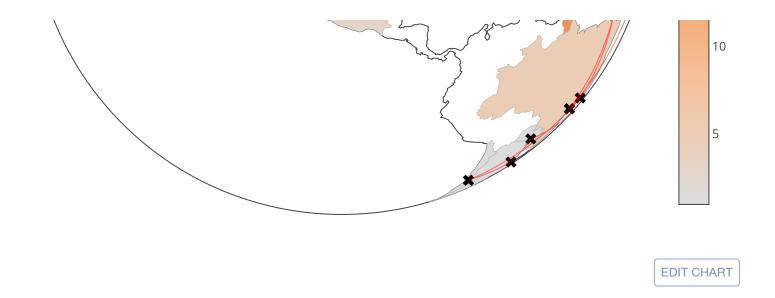
```
In [14]:
            1 data = [ dict(
            2
                      type = 'choropleth',
                      locations = df['code'],
            3
            4
                      z = df['loc'],
            5
                      autocolorscale = True,
            6
                      marker = dict(
            7
                          line = dict (
            8
                               color = 'rgb(180, 180, 180)',
            9
                               width = 0.5
           10
                           )),
           11
                      colorbar = dict(
           12
                           autotick = False,
           13
                          tickprefix = '',
           14
                          title = 'concerts'),
           15
                    ) ]
           16
          17 markers = [ dict(
           18
                      type = 'scattergeo',
           19
                      lon = concerts['lon'],
                      lat = concerts['lat'],
           20
           21
                      hovertext = concerts['loc'],
           22
                      text = concerts['loc'] ,
           23
                      textposition = 'top center',
           24
                      mode = 'markers',
           25
                      string = concerts['loc'],
           26
                      marker = dict(
           27
                          symbol = ['4'],
           28
                          size=10,
           29
                          color='black',
           30
                          linecolor = 'white'
           31
           32
                      ))]
           33
           34 layout = dict(
           35
                  width = 800,
           36
                  height = 800,
           37
                  showlegend = False,
                  title = 'concerts scorpions',
           38
           39
                  geo = dict(
                      showframe = True,
           40
           41
                      showcoastlines = True,
           42
                      projection = dict(
```

```
43
                   type = 'orthographic',
44
                   rotation = dict(
                       lon = -100,
45
                       lat = 40,
46
47
                       roll = 0
48
49
               ),
50
51)
52
53 fig = dict( data=data+markers+great_lines, layout=layout )
54 py.iplot( fig, validate=False, filename='d3-world-map')
```

Out[14]:

## concerts scorpions





In [ ]: 1