In [1]:
```
import plotly.plotly as py
import plotly.graph_objs as go
from plotly.offline import download_plotlyjs, init_notebook_mode, plot, iplot
```

In [2]:
```
init_notebook_mode(connected=True)
```

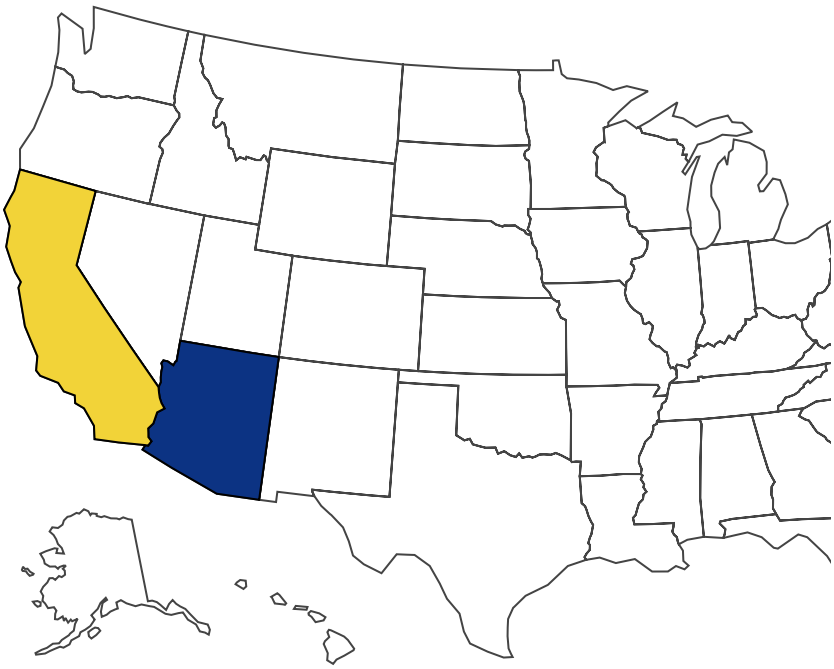
In [3]:
```
import pandas as pd
```

In [4]:
```
data = dict(type = 'choropleth',
            locations = ['AZ','CA','NY'],
            locationmode = 'USA-states',
            colorscale= 'Portland',
            text= ['text1','text2','text3'],
            z=[1.0,2.0,3.0],
            colorbar = {'title':'Colorbar Title'})
```

In [5]:
```
layout = dict(geo = {'scope':'usa'})
```

In [6]:
```
choromap = go.Figure(data = [data],layout = layout)
```

In [16]:
```
iplot(choromap)
```



In [8]:
```
df = pd.read_csv('2011_US_AGRI_Exports')
```

In [9]:
```
df.head()
```

Out[9]:

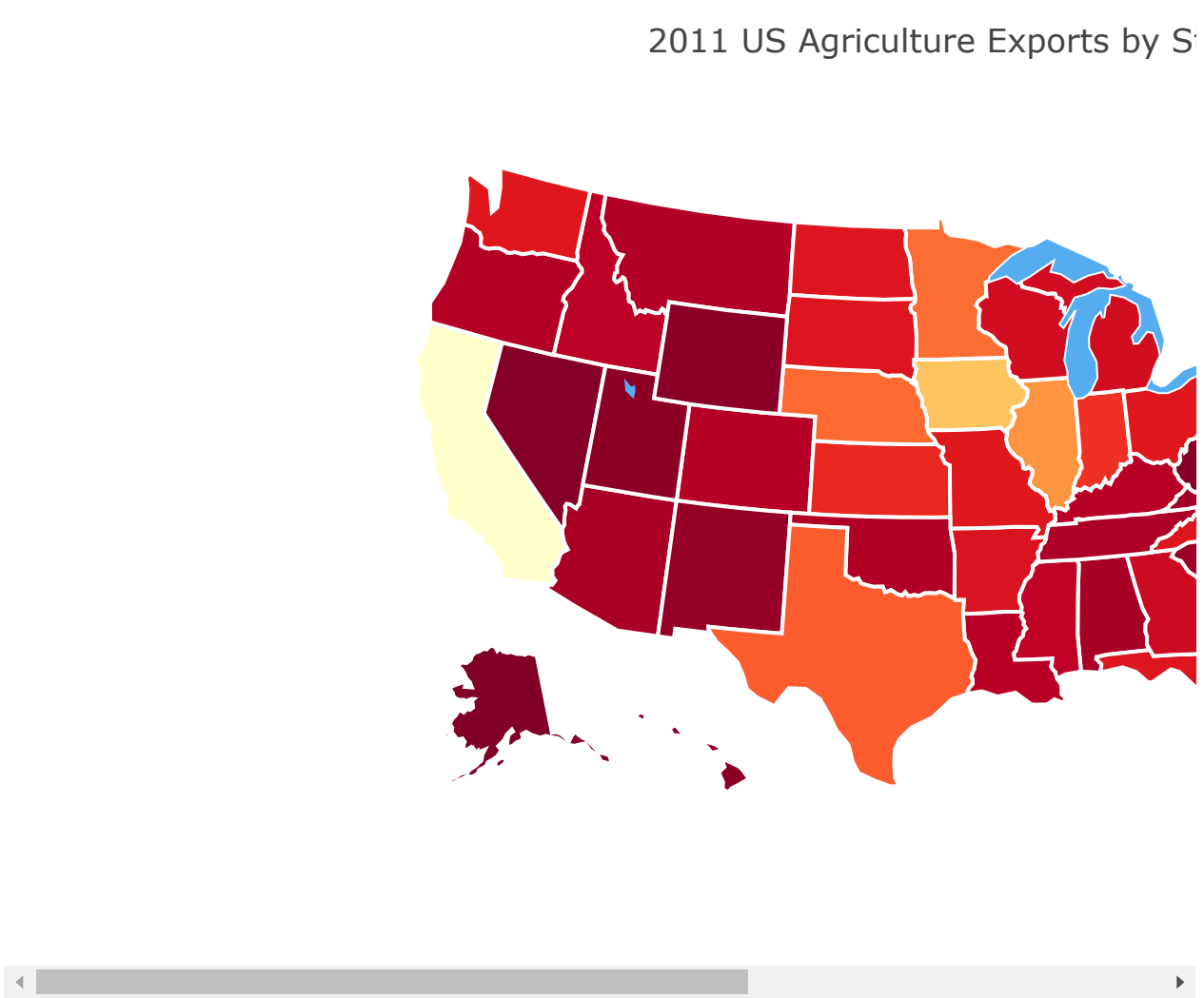
| | code | state | category | total exports | beef | pork | poultry | dairy | fruits fresh | fruits proc | total fruits | vegg fre |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | AL | Alabama | state | 1390.63 | 34.4 | 10.6 | 481.0 | 4.06 | 8.0 | 17.1 | 25.11 | |
| **1** | AK | Alaska | state | 13.31 | 0.2 | 0.1 | 0.0 | 0.19 | 0.0 | 0.0 | 0.00 | |
| **2** | AZ | Arizona | state | 1463.17 | 71.3 | 17.9 | 0.0 | 105.48 | 19.3 | 41.0 | 60.27 | 14 |
| **3** | AR | Arkansas | state | 3586.02 | 53.2 | 29.4 | 562.9 | 3.53 | 2.2 | 4.7 | 6.88 | |
| **4** | CA | California | state | 16472.88 | 228.7 | 11.1 | 225.4 | 929.95 | 2791.8 | 5944.6 | 8736.40 | 80 |

In [12]:
```
data = dict(type='choropleth',
            colorscale = 'YIOrRd',
            locations = df['code'],
            z = df['total exports'],
            locationmode = 'USA-states',
            text = df['text'],
            marker = dict(line = dict(color = 'rgb(255,255,255)',width = 2)),
            colorbar = {'title':"Millions USD"}
            )
```

In [13]:
```
layout = dict(title = '2011 US Agriculture Exports by State',
              geo = dict(scope='usa',
                         showlakes = True,
                         lakecolor = 'rgb(85,173,240)')
             )
```

In [14]:
```
choromap2 = go.Figure(data = [data],layout = layout)
```

In [15]:
```
iplot(choromap2)
```




In [18]:
```
df=pd.read_csv('2014_World_GDP')
```

In [19]:
```
df.head()
```

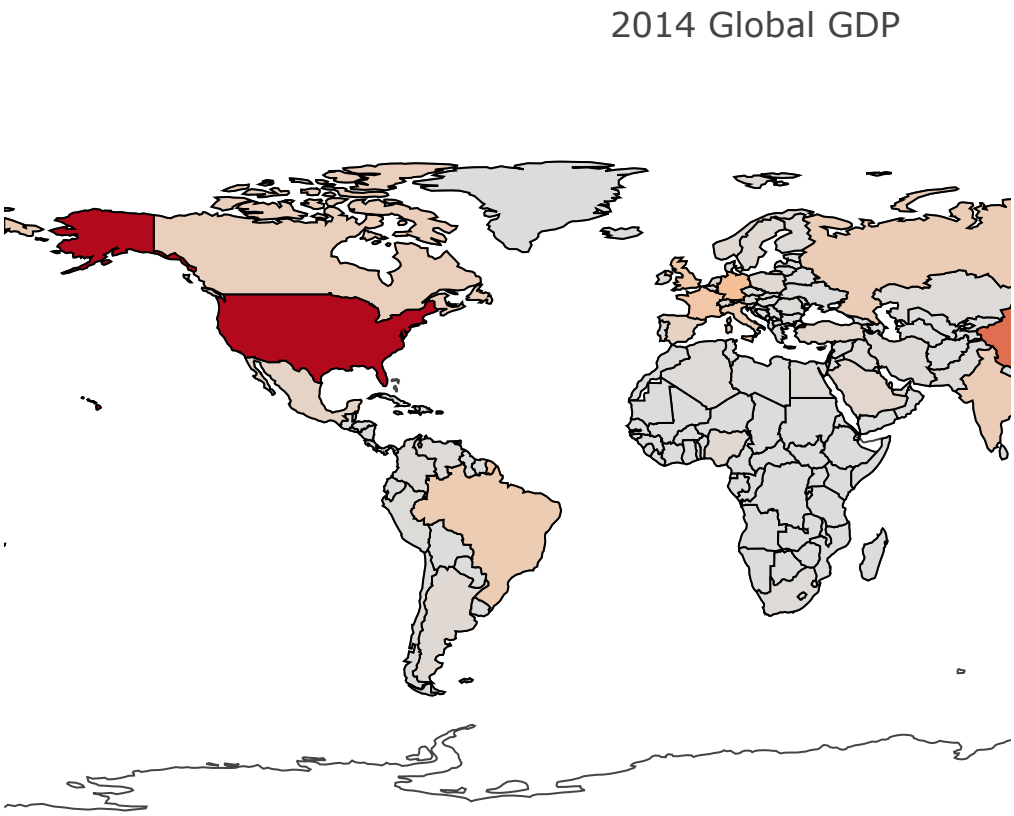
Out[19]:

| | COUNTRY | GDP (BILLIONS) | CODE |
|---|---|---|---|
| **0** | Afghanistan | 21.71 | AFG |
| **1** | Albania | 13.40 | ALB |
| **2** | Algeria | 227.80 | DZA |
| **3** | American Samoa | 0.75 | ASM |
| **4** | Andorra | 4.80 | AND |

In [26]:
```
data = dict(
        type = 'choropleth',
        locations = df['CODE'],
        z = df['GDP (BILLIONS)'],
        text = df['COUNTRY'],
        colorbar = {'title' : 'GDP Billions US'},
      )
```

In [27]:
```
layout = dict(
    title = '2014 Global GDP',
    geo = dict(
        showframe = False,
        projection = {'type':'Mercator'}
    )
)
```

In [28]:
```
choromap = go.Figure(data = [data],layout = layout)
iplot(choromap)
```




In [ ]: