## 02-Choropleth Maps Exercise

April 26, 2019

1 Choropleth Maps Exercise

Welcome to the Choropleth Maps Exercise! In this exercise we will give you some simple datasets and ask you to create Choropleth Maps from them. Due to the Nature of Plotly we can't show you examples

Full Documentation Reference

## 1.1 Plotly Imports

\*\* Import pandas and read the csv file: 2014\_World\_Power\_Consumption\*\*

#### In [156]:

```
Out[156]:
               Country Power Consumption KWH
                                 5.523000e+12
                                                   China 5,523,000,000,000
                 China
      1 United States
                                 3.832000e+12
                                                  United 3,832,000,000,000
      2
                                 2.771000e+12 European 2,771,000,000,000
              European
                                                  Russia 1,065,000,000,000
      3
                Russia
                                 1.065000e+12
      4
                                                     Japan 921,000,000,000
                 Japan
                                 9.210000e+11
```

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

<sup>\*\*</sup> Check the head of the DataFrame. \*\*

<sup>\*\*</sup> Referencing the lecture notes, create a Choropleth Plot of the Power Consumption for Countries using the data and layout dictionary. \*\*

## 1.2 USA Choropleth

### In [110]:

Out[110]:	Year	ICPSR State		Alpha	anumeric	: State			\		
0			41 81				1 2	Alabama			
2			61				3	Alaska			
3			42				4	Arizona Arkansas			
4			71					California			
4	2012		11				5	Calliolilla			
	VEP To	tal Ballots	Counte	d VEP	Highest	Offic	e VAP H	ighest Offi	ce \		
0	)	NaN				58.6% 56.0%					
1		58.9%				58.7% 55.3%					
2		53.0%				52.6					
3	3	51.1%				50.7% 47.7%					
4	:	55.7%				55.1% 45.1%					
		Ballots Cour	-	-		Voting-	-Eligib	_		\	
0		NaN 2,074,33					3,539,217				
1		301,			300,495			_	511,792		
2		2,323,			306,559				,387,900		
3		1,078,548 1,069,4									
4	13,202,158 13,038,547 23,681,							,681,837			
	Votin	g-Age Popula	tion (	VAP) %	% Non-ci	tizen	Priso	n Probation	Parole	\	
0		0 0 1	37074			2.6%	32,23				
1		543763.0				3.8%	5,63				
2		4959270.0				9.9%	35,18				
3	}	2242740.0				3.5%	14,47	1 30,122	23,372		
4	:	28913129.0				17.4%	119,45	5 0	89,287		
	Total Ineligible Felon State Abv										
0			,584		AL						
1			,317		AK						
2			,048		AZ						
3			8,808		AR						
4	:	208	3,742		CA						

<sup>\*\*</sup> Now create a plot that displays the Voting-Age Population (VAP) per state. If you later want to play around with other columns, make sure you consider their data type. VAP has already been transformed to a float for you. \*\*

# 2 Great Job!