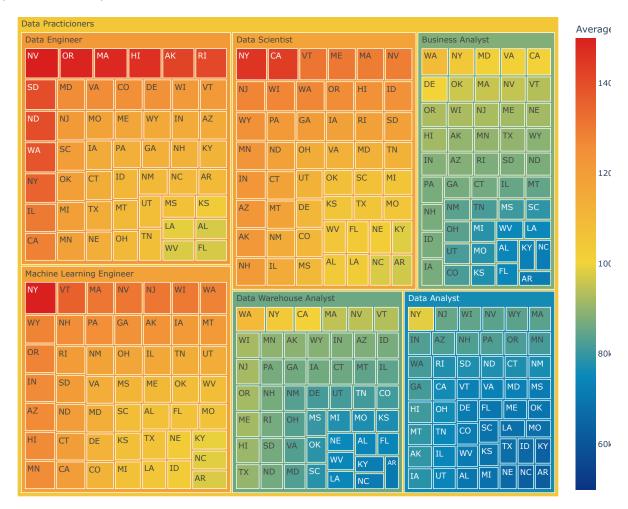
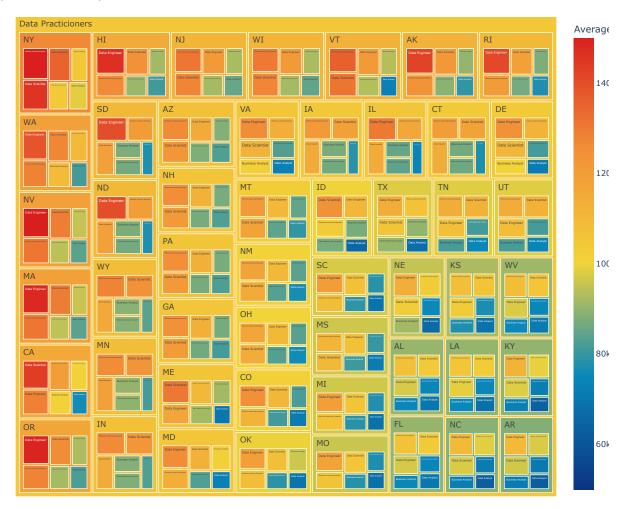
```
In [51]: import pandas as pd
          import numpy as np
         import geopandas as gpd
          import json
          import statsmodels
          import plotly
          import plotly.express as px
          import plotly.io as pio
         # pio.renderers.default='jupyter'
          pio.renderers.default='jupyterlab'
          # allow full interactivity offlice
         plotly.offline.init_notebook_mode()
In [52]: salary_df = pd.read_csv('salary.csv')
         salary_df.head()
Out[52]:
                 State Annual Salary Monthly Pay Weeky Pay Hourly Wage
                                                                            Job Title State Code
                              98238
                                            8186
                                                       1889
              New York
                                                                    47.23 Data Analyst
                              84878
                                            7073
                                                       1632
          1 New Jersey
                                                                    40.81 Data Analyst
                                                                                             NJ
             Wisconsin
                              84340
                                                       1621
                                                                                             WI
                                            7028
                                                                   40.55 Data Analyst
                              83624
          3
               Nevada
                                            6968
                                                       1608
                                                                   40.20 Data Analyst
                                                                                             NV
              Wyoming
                               83611
                                            6967
                                                       1607
                                                                   40.20 Data Analyst
                                                                                             WY
In [53]: # us_states = json.load(open('states.geojson', 'r'))
         # for feat in us_states['features']:
         # feat['id'] = feat['properties']['NAME']
# fig = px.choropleth(salary_df, locations='State', scope='usa', geojson=us_states,
                                color='Annual Salary',
                                 hover_name='State'
                                hover_data=['Annual Salary', 'Job Title'],
         #
                                #color_continuous_scale='Tealrose',
                                 #color_continuous_midpoint=np.average(salary_df['Annual Salary']),
                                title='Firearm Mortality (Hover over map for details)')
         # fig.show()
In [54]: import plotly.graph_objects as go
          fig = px.treemap(salary_df, path=[px.Constant('Data Practicioners'), 'Job Title', 'State Code'], values='Annual Salary',
                          color='Annual Salary',
                           height=900,
                           width=1100.
                           title='Data Practicioner Salaries by Job Title<br/>
Hover for details)</br>',
                           labels={}
                                "Annual Salary": 'Average Annual Salary',
                           color_continuous_scale='Portland',
                           color_continuous_midpoint=np.average(salary_df['Annual Salary'])
          fig.show()
```

Data Practicioner Salaries by Job Title (Hover for details)

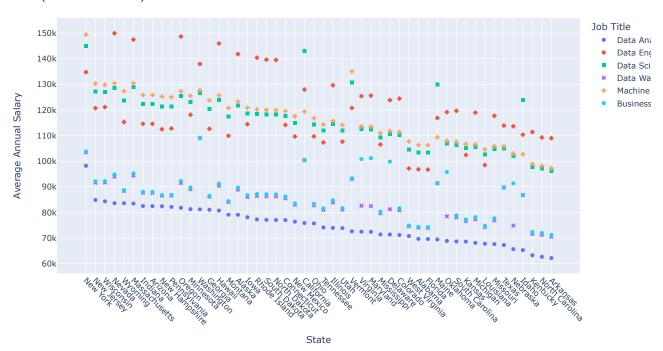


Data Practicioner Salaries by State (Hover for details)



```
In [56]: salary_df[['State', 'Job Title']],
Out[56]: (
                       State
                                    Job Title
                    New York
                                  Data Analyst
          0
          1
                  New Jersey
                                  Data Analyst
          2
                   Wisconsin
                                  Data Analyst
          3
                      Nevada
                                 Data Analyst
          4
                     Wyoming
                                 Data Analyst
          295
                     Alabama Business Analyst
          296
                     Florida Business Analyst
          297
                    Kentucky Business Analyst
          298 North Carolina Business Analyst
          299
                    Arkansas Business Analyst
          [300 rows x 2 columns],)
labels={
                            "Job Title": "Job Title",
"State": "State",
"Annual Salary": 'Average Annual Salary'
                         height=600,
                         width=1100,
                         hover_name='Job Title',
                         hover_data=['Annual Salary'],
```

Data Practicioner Salaries by State (Hover for details)



In []: