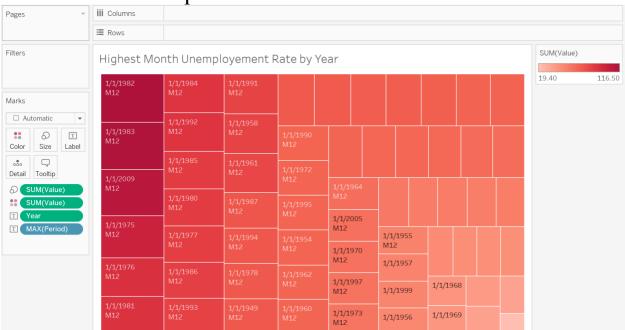
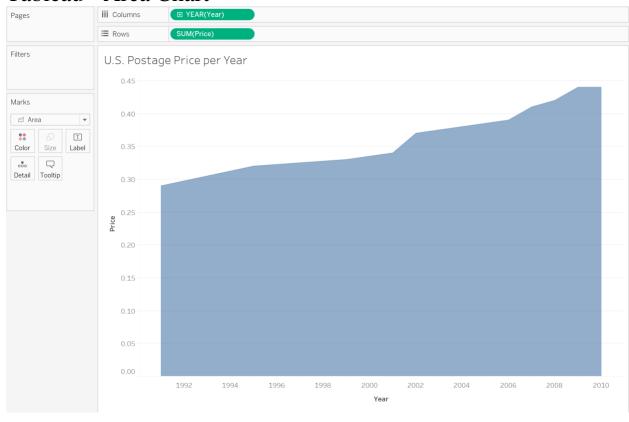
2.2 Exercise Charts

Tableau Charts

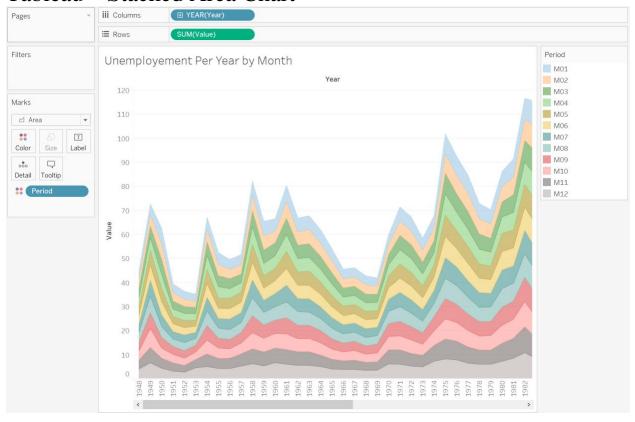
• Tableau – Tree Map



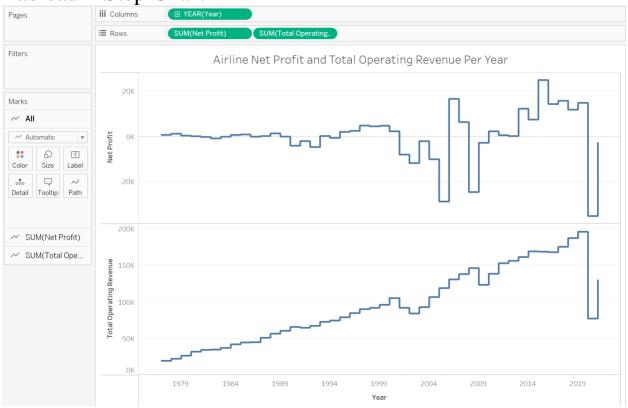
• Tableau - Area Chart



• Tableau – Stacked Area Chart



• Tableau – Step Chart

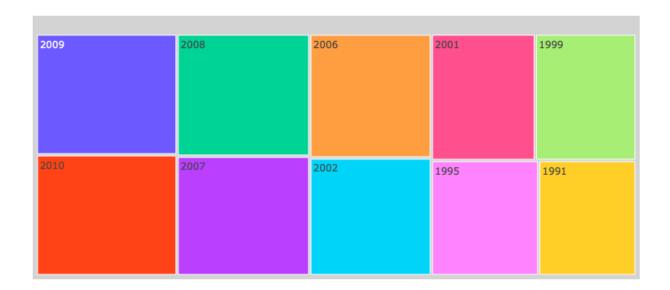


Python Charts

• Python – Tree Map

Python - Tree Map

```
# Import plotly-express and create a treemap
import plotly.express as px
TreeMap = px.treemap(us_postage, path=['Year'],values='Price', width=800, height=400)
TreeMap.update_traces(root_color="lightgrey")
TreeMap.update_layout(margin = dict(t=50, l=25, r=25, b=25))
TreeMap.show()
```

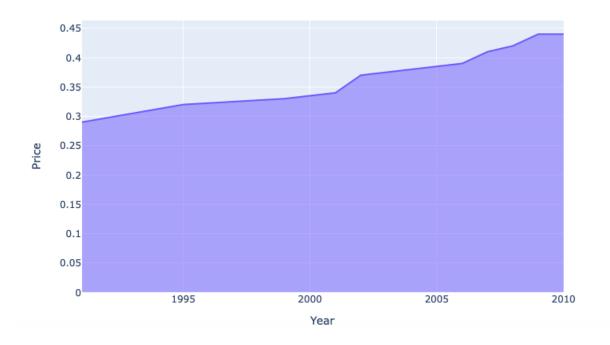


• Python - Area Chart

Python - Area Chart

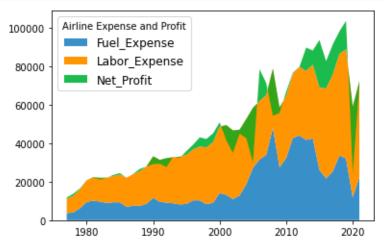
```
reate an Area chart for the us postage price
postage_Area = px.area(us_postage, x ='Year', y = 'Price', title = 'Postage Price Per Year')
postage_Area.show()
```

Postage Price Per Year



• Python – Stacked Area Chart

Python - Stacked Area Chart

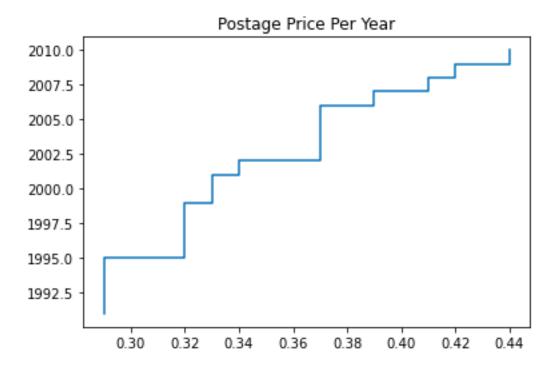


• Python – Step Chart

Python - Step Chart

```
# Next I will create a step chart using Plt
x = us_postage.Price
y = us_postage.Year

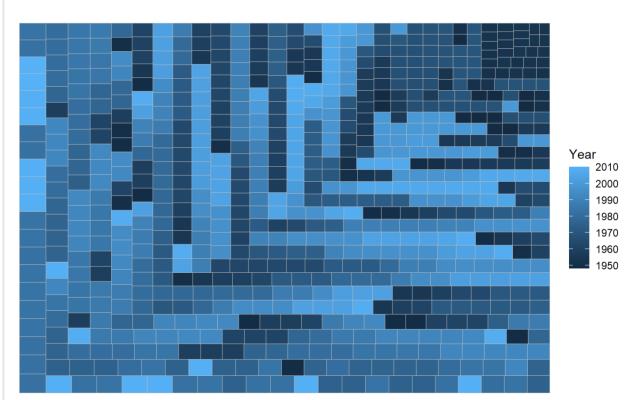
plt.step(x, y)
plt.title("Postage Price Per Year")
plt.show()
```



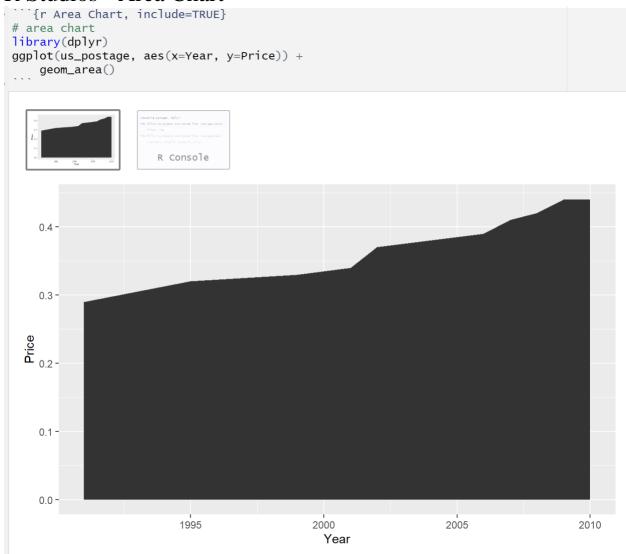
R Studios Charts

```
• R Studios — Tree Map

'`{r Tree Map, include=TRUE}
library(treemapify)
library(ggplot2)
      ggplot(unemployement_rate, aes(area = Value, fill = Year)) +
      geom_treemap()
```



• R Studios - Area Chart



• R Studios – Stacked Area Chart

```
``{r Stacked Area Chart, include=TRUE}
# stacked area chart
library(dplyr)
ggplot(unemployement_rate, aes(x=Year, y=Value, fill=Period)) +
geom_area()
     120 -
                                                                                                       Period
                                                                                                           M01
      90 -
                                                                                                           M02
                                                                                                           M03
                                                                                                           M04
                                                                                                           M05
  Value - 09
                                                                                                           M06
                                                                                                           M07
                                                                                                           M08
                                                                                                           M09
      30 -
                                                                                                           M10
                                                                                                           M11
                                                                                                           M12
       0 -
                                                     1980
                                                                                2000
                           1960
                                                    Year
```

```
• R Studios — Step Chart

'[r Step Chart, include=TRUE]
# I will create a stepped line chart using qplot|
qplot(Year, Price, data = us_postage, geom = "step")
                     0.44 -
```

