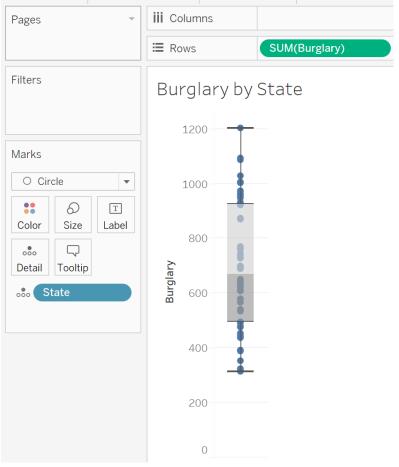
5.2 Exercise Charts

Tableau Charts

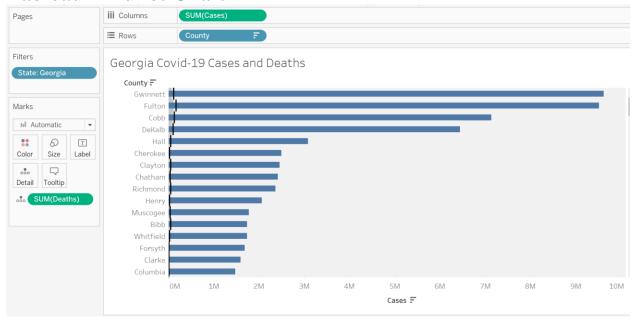
• Tableau – Histogram



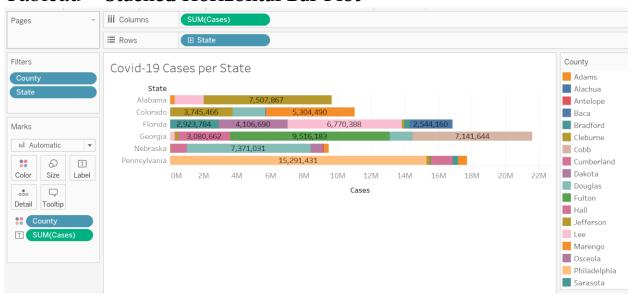
• Tableau – Box Plot



• Tableau – Bullet Chart

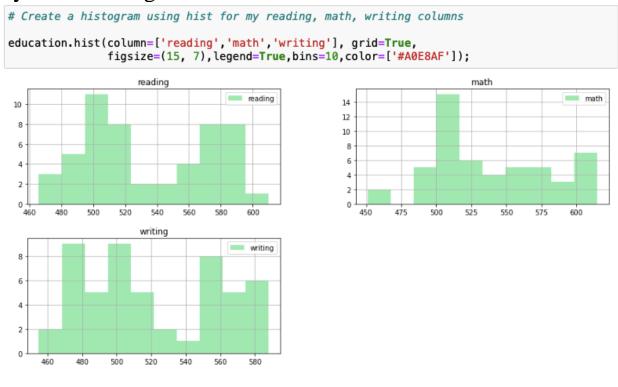


• Tableau – Stacked Horizontal Bar Plot



Python Charts

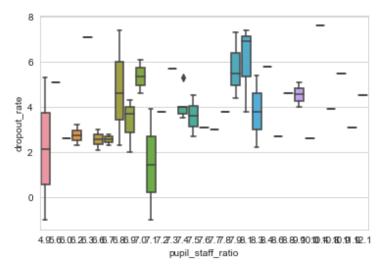
• Python – Histogram



• Python - Box Plot

```
# I'll use seaborn to create a boxplot that shows the
# dropout_rate by the pupil_staff_ratio
sns.set_style("whitegrid")
sns.boxplot(x = 'pupil_staff_ratio', y = 'dropout_rate', data = education)
```

<AxesSubplot:xlabel='pupil_staff_ratio', ylabel='dropout_rate'>



• Python – Bullet Chart

```
# I'll ue graph_objects to create a Bullet Chart that shows the murders for Florida
# against the largest numbers in the US

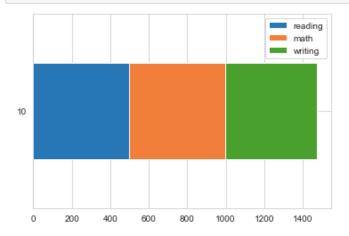
import plotly.graph_objects as go

fig = go.Figure(go.Indicator(
    mode = "number+gauge+delta",
    gauge = {'shape': "bullet"},
    value = 5,
    delta = {'reference': 35.4},
    domain = {'x': [0, 1], 'y': [0, 1]},
    title = {'text': "Murder"}))
fig.update_layout(height = 260)
fig.show()
```



• Python – Stacked Horizontal Bar Plot

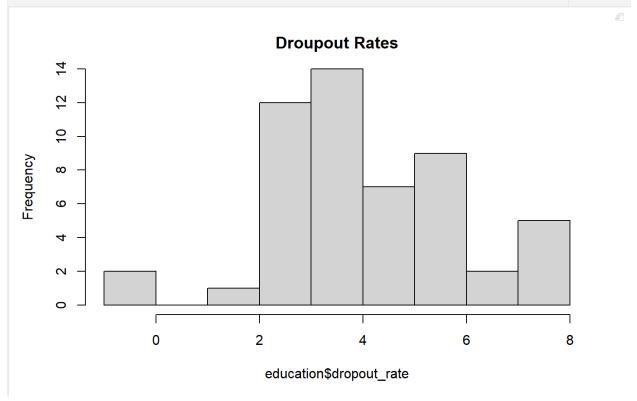
Create a Stacked Horizontal Bar Plot for florida for reading, math, and writing
education_update.plot.barh(stacked=True);



R Studios Charts

• R Studios – Histogram

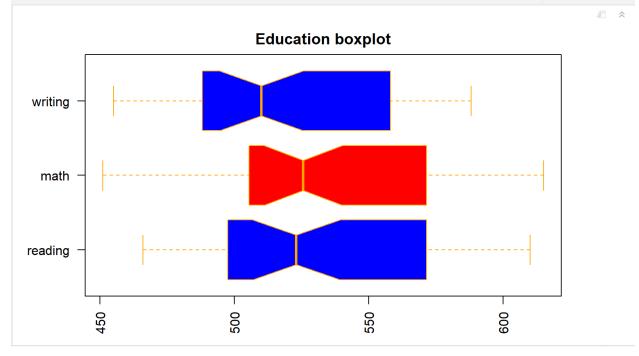
'``{r histogram, include=TRUE}
I will now use hist to create my histogram that shows the dropout_rate with ten breaks
hist(education\$dropout_rate, breaks=10, main="Droupout Rates")



• R Studios - Box Plot

```
"``{r box plot, include=TRUE}

# I will now use boxplot to create a box plot that shows the box plots for reading, math, and writing|
boxplot(education$reading, education$math, education$writing,
main = "Education boxplot",
at = c(1,2,3),
names = c("reading", "math", "writing"),
las = 2,
col = c("blue", "red"),
border = "orange",
horizontal = TRUE,
notch = TRUE
```



• R Studios – Bullet Chart

• R Studios – Stacked Horizontal Bar Plot

Covid Cases

