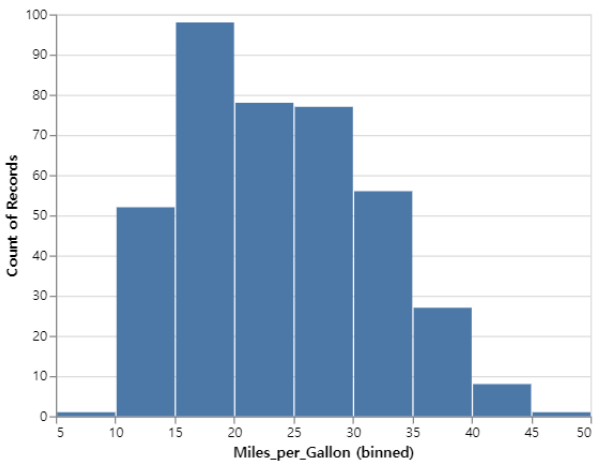
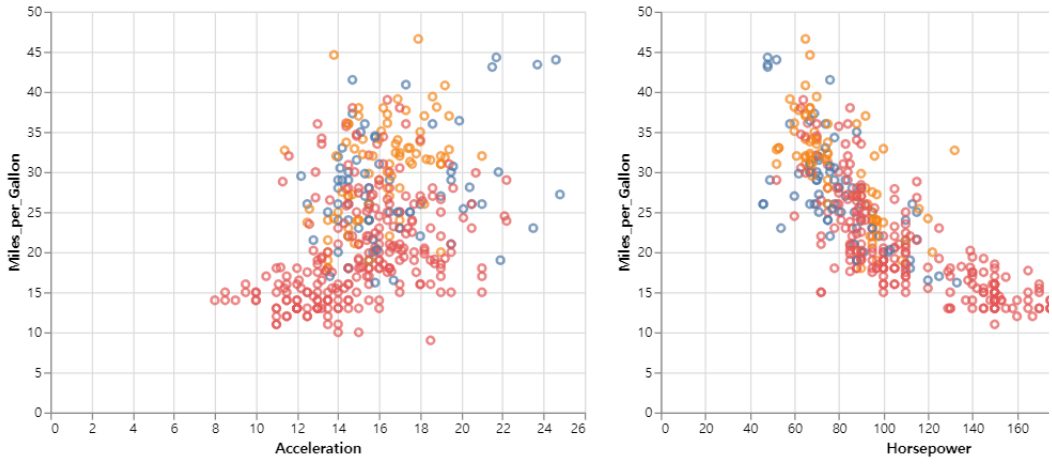
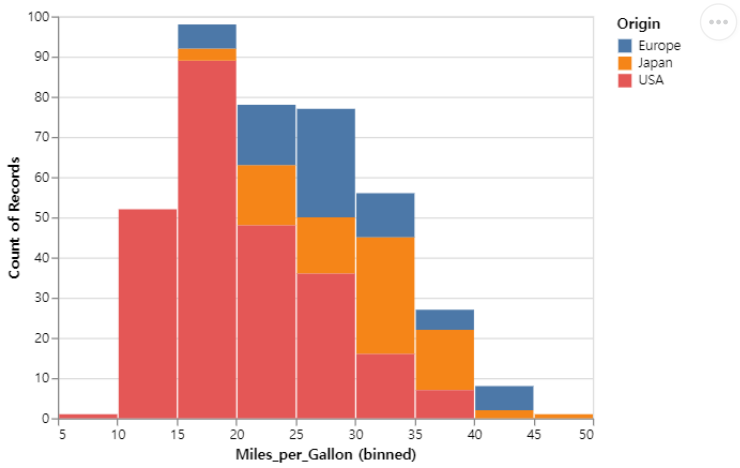
```
# Visualization: Histogram in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

# plot the dataset, referencing dataframe column names
import altair as alt
alt.Chart(cars).mark_bar().encode(
  x=alt.X('Miles_per_Gallon', bin=True),
  y='count()',
)
```



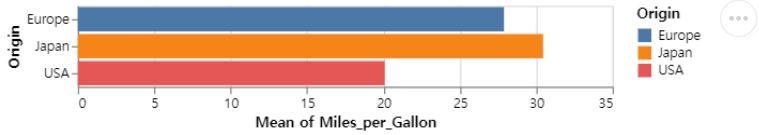

```
# Visualization: Linked Brushing in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

import altair as alt

interval = alt.selection_interval()

base = alt.Chart(cars).mark_point().encode(
  y='Miles_per_Gallon',
  color=alt.condition(interval, 'Origin', alt.value('lightgray'))
).properties(
  selection=interval
)

base.encode(x='Acceleration') | base.encode(x='Horsepower')
```



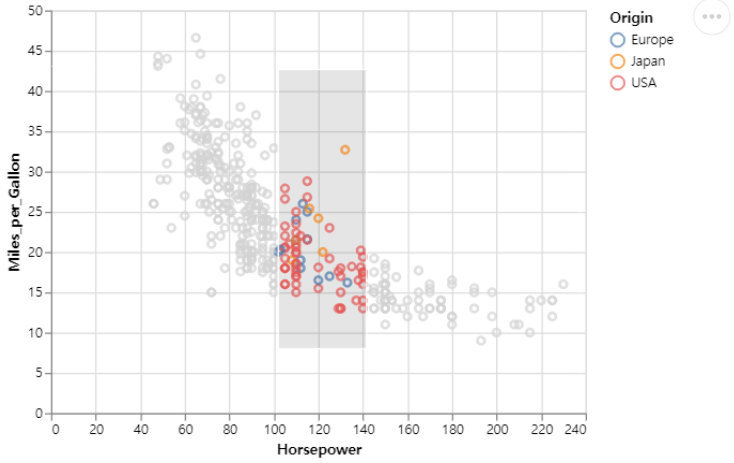

```
# Visualization: Stacked Histogram in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

# plot the dataset, referencing dataframe column names
import altair as alt
alt.Chart(cars).mark_bar().encode(
  x=alt.X('Miles_per_Gallon', bin=True),
  y='count()',
  color='Origin'
)
```




```
# Visualization: Bar Plot in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

# plot the dataset, referencing dataframe column names
import altair as alt
alt.Chart(cars).mark_bar().encode(
  x='mean(Miles_per_Gallon)',
  y='Origin',
  color='Origin'
)
```

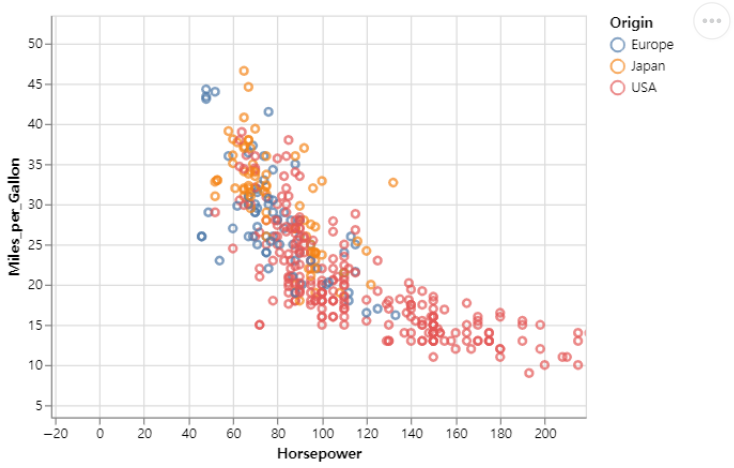



```
# Visualization: Interactive Brushing in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

import altair as alt

interval = alt.selection_interval()

alt.Chart(cars).mark_point().encode(
  x='Horsepower',
  y='Miles_per_Gallon',
  color=alt.condition(interval, 'Origin', alt.value('lightgray'))
).properties(
  selection=interval
)
```

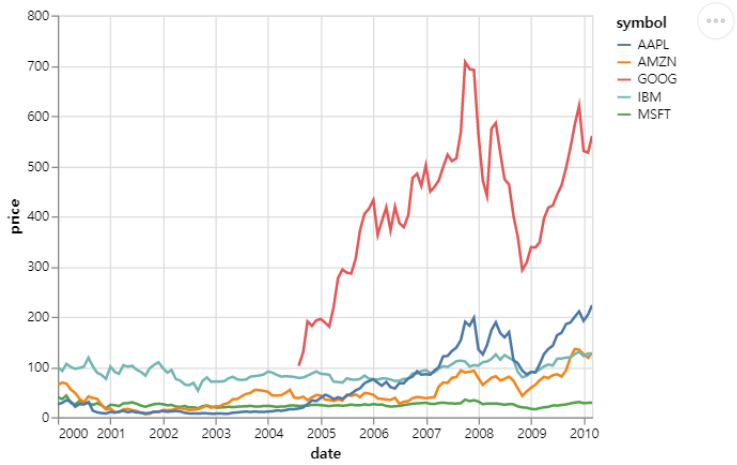



```
# Visualization: Interactive Scatter Plot in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

# plot the dataset, referencing dataframe column names
import altair as alt
alt.Chart(cars).mark_point().encode(
  x='Horsepower',
```

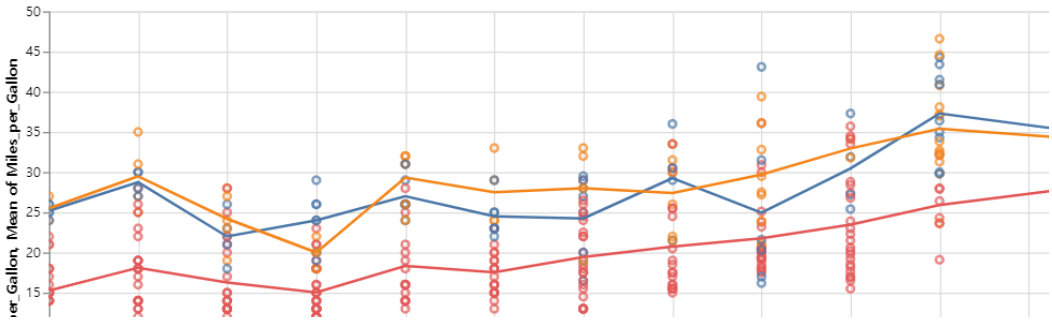
```
  y='Miles_per_Gallon',
  color='Origin'
).interactive()
```




```
# Visualization: Time Series Line Plot in Altair

from vega_datasets import data
stocks = data.stocks()

import altair as alt
alt.Chart(stocks).mark_line().encode(
  x='date:T',
  y='price',
  color='symbol'
).interactive(bind_y=False)
```




```
# Visualization: Scatter Plot with Rolling Mean in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

import altair as alt

points = alt.Chart(cars).mark_point().encode(
  x='Year:T',
  y='Miles_per_Gallon',
  color='Origin'
).properties(
  width=800
)

lines = alt.Chart(cars).mark_line().encode(
  x='Year:T',
  y='mean(Miles_per_Gallon)',
  color='Origin'
).properties(
  width=800
).interactive(bind_y=False)

points + lines
```




```
# Visualization: Linked Scatter-Plot and Histogram in Altair

# load an example dataset
from vega_datasets import data
cars = data.cars()

import altair as alt

interval = alt.selection_interval()

points = alt.Chart(cars).mark_point().encode(
  x='Horsepower',
  y='Miles_per_Gallon',
  color=alt.condition(interval, 'Origin', alt.value('lightgray'))
).properties(
  selection=interval
)

histogram = alt.Chart(cars).mark_bar().encode(
  x='count()',
  y='Origin',
  color='Origin'
).transform_filter(interval)

points & histogram
```