Date 06-07-2021

Histograms

In [1]:
```
import pandas as pd
import numpy as np
import plotly.offline as pyo
import plotly.graph_objs as go
```

In [2]:
```
mpg_data_csv = pd.read_csv("mpg.csv", usecols = ["mpg"])
mpg_data_csv
```

Out[2]:

	mpg
0	18.0
1	15.0
2	18.0
3	16.0
4	17.0
...	...
393	27.0
394	44.0
395	32.0
396	28.0
397	31.0

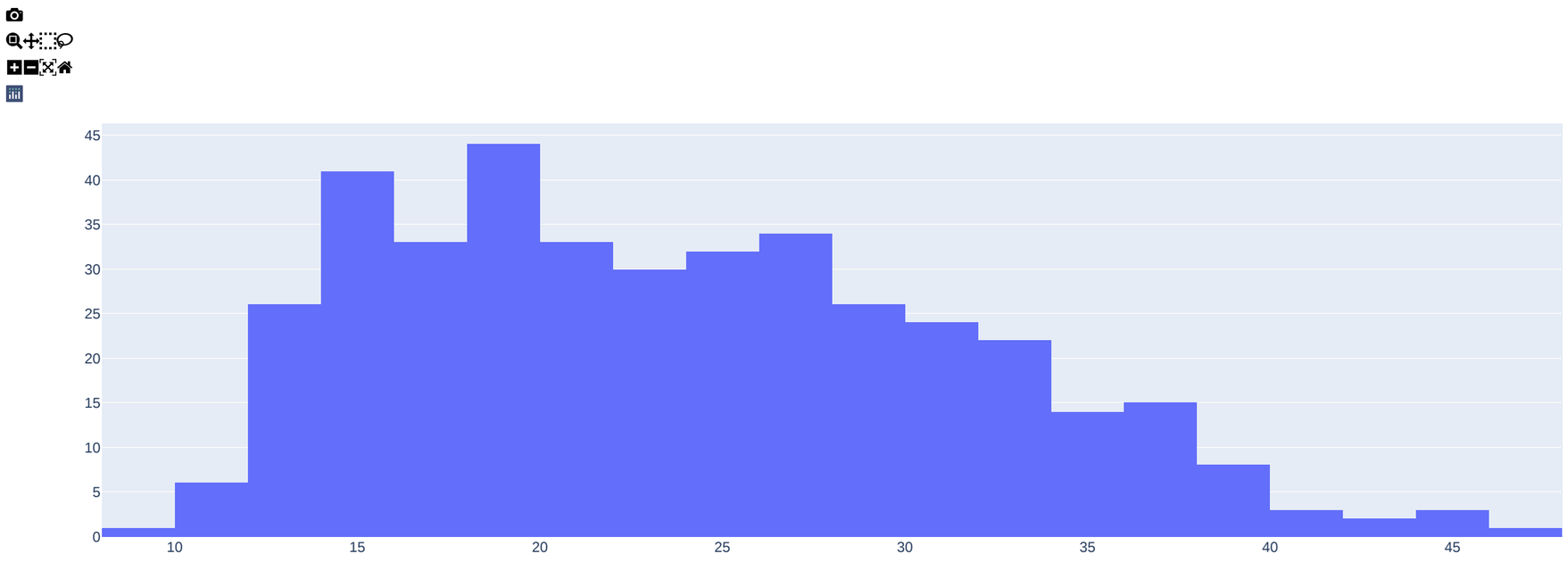
398 rows × 1 columns

In [3]:
```
data = [go.Histogram(x = mpg_data_csv["mpg"])]
```

In [4]:
```
layout = go.Layout(title = "This is a Histogram with size = default bins")
```

In [5]:
```
fig = go.Figure(data, layout)
```

In [6]:
```
pyo.iplot(fig)
```



In [7]:
```
pyo.plot(fig, filename = "tutorial_16 (Histograms)[Part-1]{Graph}.html")
```

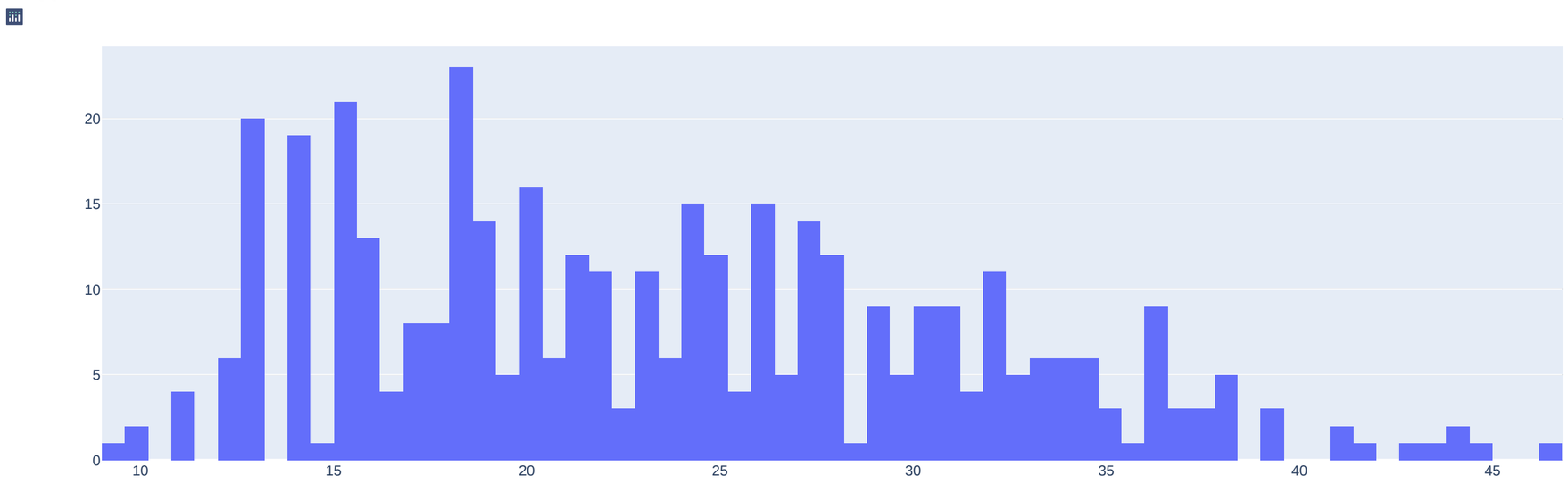
Out[7]:
```
'tutorial_16 (Histograms)[Part-1]{Graph}.html'
```

In [8]:
```
data = [go.Histogram(x = mpg_data_csv["mpg"],
                     xbins = dict(start = 0,
                                  end = 500,
                                  size = .6))]
```

In [9]:
```
layout = go.Layout(title = "This is a Histogram with size = .6 bins")
```

In [10]:
```
fig = go.Figure(data, layout)
```

In [11]:
```
pyo.iplot(fig)
```



In [12]:
```
pyo.plot(fig, filename = "tutorial_16 (Histograms)[Part-2]{Graph}.html")
```

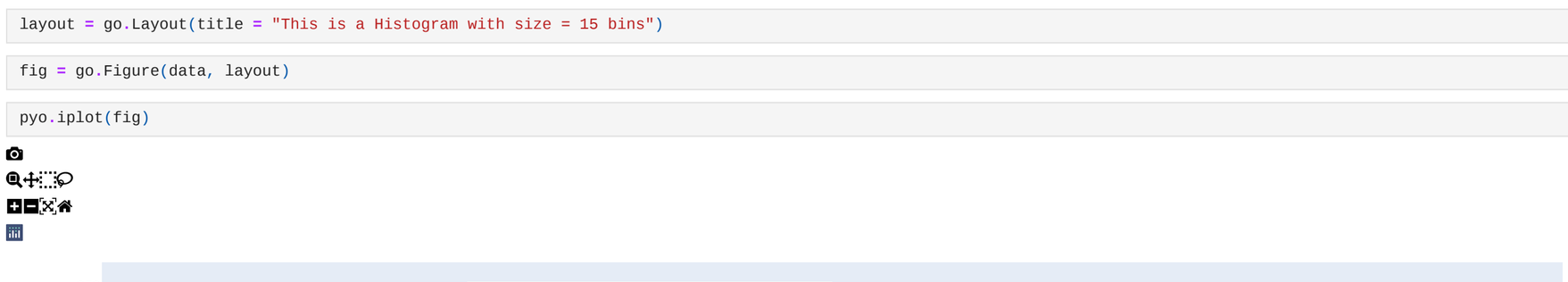
Out[12]:
```
'tutorial_16 (Histograms)[Part-2]{Graph}.html'
```

In [13]:
```
data = [go.Histogram(x = mpg_data_csv["mpg"],
                     xbins = dict(start = 0,
                                  end = 500,
                                  size = 15))]
```

In [14]:
```
layout = go.Layout(title = "This is a Histogram with size = 15 bins")
```

In [15]:
```
fig = go.Figure(data, layout)
```

In [16]:
```
pyo.iplot(fig)
```



In [17]:
```
pyo.plot(fig, filename = "tutorial_16 (Histograms)[Part-3]{Graph}.html")
```

Out[17]:
```
'tutorial_16 (Histograms)[Part-3]{Graph}.html'
```