

```
In [13]: import pandas as pd
import numpy as np

import dash
from dash import dcc
from dash import html
from dash.dependencies import Input, Output

from matplotlib import pyplot as plt
%matplotlib inline
import seaborn as sns

import plotly.express as px
import plotly.graph_objects as go

import plotly as py
from plotly.offline import init_notebook_mode, iplot
init_notebook_mode(connected=True)

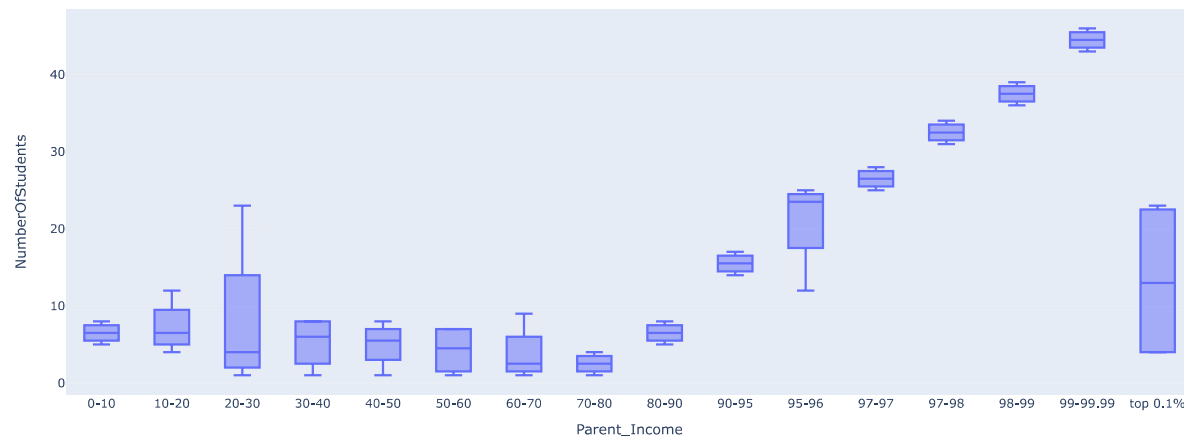
pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)
```

```
In [14]: df = pd.read_excel('input.xlsx')
print(df.shape)
print(df)
```

```
(64, 3)
   Max_Score  Parent_Income  NumberOfStudents
0         10         0-10             5.0
1         10         10-20             7.0
2         10         20-30            23.0
3         10         30-40             4.0
4         10         40-50             6.0
5         10         50-60             7.0
6         10         60-70             9.0
7         10         70-80             1.0
8         10         80-90             5.0
9         10         90-95            14.0
10        10         95-96            12.0
11        10         97-97            25.0
12        10         97-98            31.0
13        10         98-99            36.0
14        10         99-99.99          43.0
15        10         top 0.1%           4.0
16        20          0-10             6.0
17        20         10-20             4.0
18        20         20-30             3.0
19        20         30-40             8.0
20        20         40-50             5.0
21        20         50-60             7.0
22        20         60-70             1.0
23        20         70-80             2.0
24        20         80-90             6.0
25        20         90-95            15.0
26        20         95-96            23.0
27        20         97-97            26.0
28        20         97-98            32.0
29        20         98-99            37.0
30        20         99-99.99          44.0
31        20         top 0.1%           22.0
32        30          0-10             7.0
33        30         10-20            12.0
34        30         20-30             5.0
35        30         30-40             8.0
36        30         40-50             8.0
37        30         50-60             1.0
38        30         60-70             2.0
39        30         70-80             3.0
40        30         80-90             7.0
41        30         90-95            16.0
42        30         95-96            24.0
43        30         97-97            27.0
44        30         97-98            33.0
45        30         98-99            38.0
46        30         99-99.99          45.0
47        30         top 0.1%           4.0
48        36          0-10             8.0
49        36         10-20             6.0
50        36         20-30             1.0
51        36         30-40             1.0
52        36         40-50             1.0
53        36         50-60             2.0
54        36         60-70             3.0
55        36         70-80             4.0
56        36         80-90             8.0
57        36         90-95            17.0
58        36         95-96            25.0
59        36         97-97            28.0
```

60	36	97-98	34.0
61	36	98-99	39.0
62	36	99-99.99	46.0
63	36	top 0.1%	23.0

```
In [15]: Boxplot = px.box(df, x="Parent_Income", y="NumberOfStudents")
Boxplot.show()
```



```
In [11]: py.offline_plot(Boxplot, filename='Boxplot.html')
```

```
Out[11]: 'Boxplot.html'
```