In [2]:
```
import  pandas as pd
```

In [3]:
```
import numpy as np
```

In [4]:
```
import plotly.express as px
```

In [5]:
```
import plotly.graph_objects as go
```

In [6]:
```
#to read data from csv
```

In [7]:
```
data = pd.read_csv("Screentime-App-Details.csv")
```

In [8]:
```
print(data.head())
```

```
         Date  Usage  Notifications  Times opened        App
0  08/26/2022     38             70            49  Instagram
1  08/27/2022     39             43            48  Instagram
2  08/28/2022     64            231            55  Instagram
3  08/29/2022     14             35            23  Instagram
4  08/30/2022      3             19             5  Instagram
```

In [9]:
```
#To check if there has any null value in dataset or not
```

In [10]:
```
data.isnull().sum()
```

Out[10]:
```
Date             0
Usage            0
Notifications    0
Times opened     0
App              0
dtype: int64
```

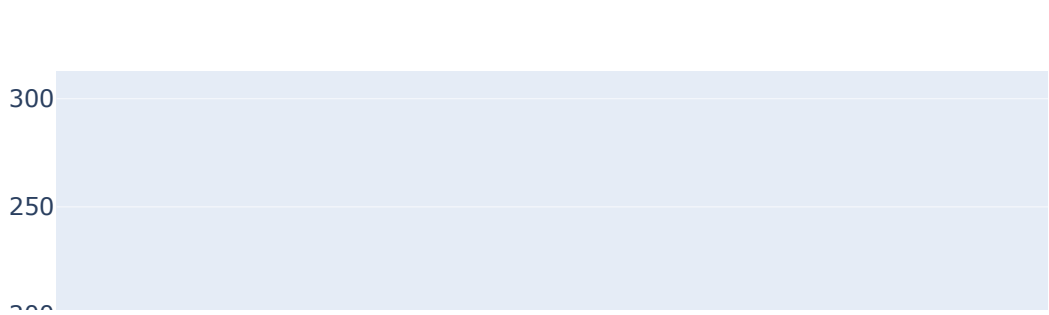
In [11]:
```
#performing descriptive analysis of data
```

In [12]:
```
print(data.describe())
```

```
            Usage  Notifications  Times opened
count   54.000000      54.000000     54.000000
mean    65.037037     117.703704     61.481481
std     58.317272      97.017530     43.836635
min      1.000000       8.000000      2.000000
25%     17.500000      25.750000     23.500000
50%     58.500000      99.000000     62.500000
75%     90.500000     188.250000     90.000000
max    244.000000     405.000000    192.000000
```

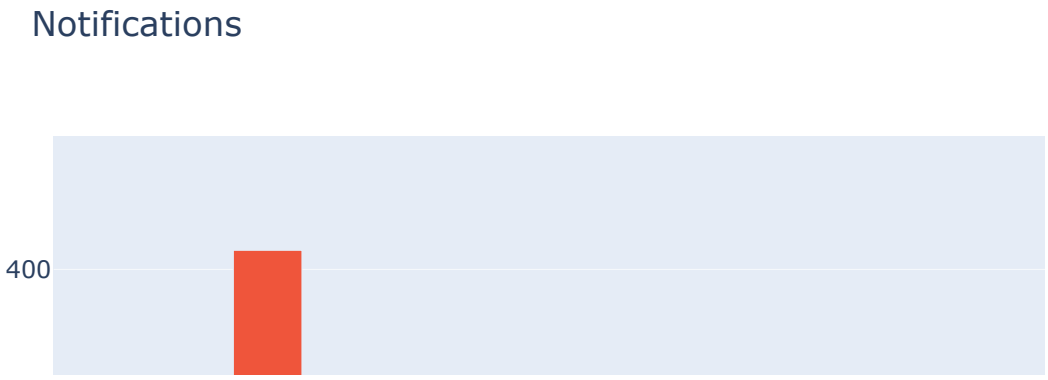
In [13]:
```
#visual representation of usage of app
```

In [14]:
```
chart = px.bar(data_frame = data,x = "Date",y = "Usage",color = "App",title = "Usag
chart.show()
```



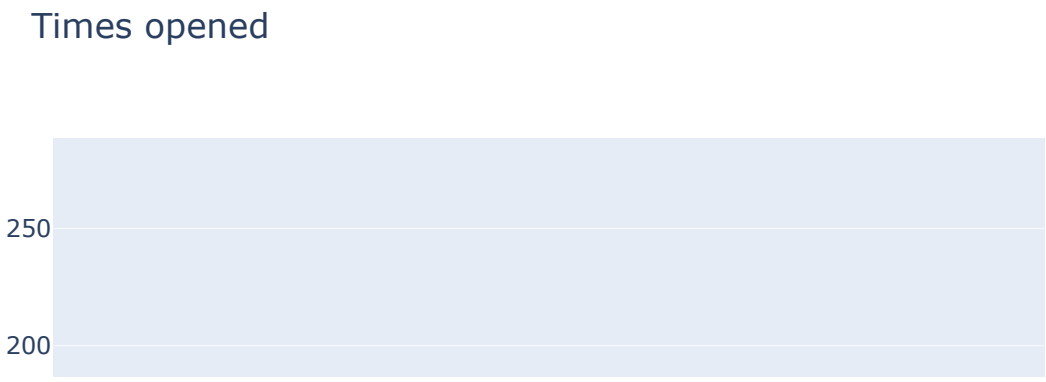
In [15]:
```
#Number of notifications from the apps
```

In [16]:
```
chart = px.bar(data_frame = data,
                   x = "Date",
                   y = "Notifications",
                   color = "App",
                   title = "Notifications")
chart.show()
```



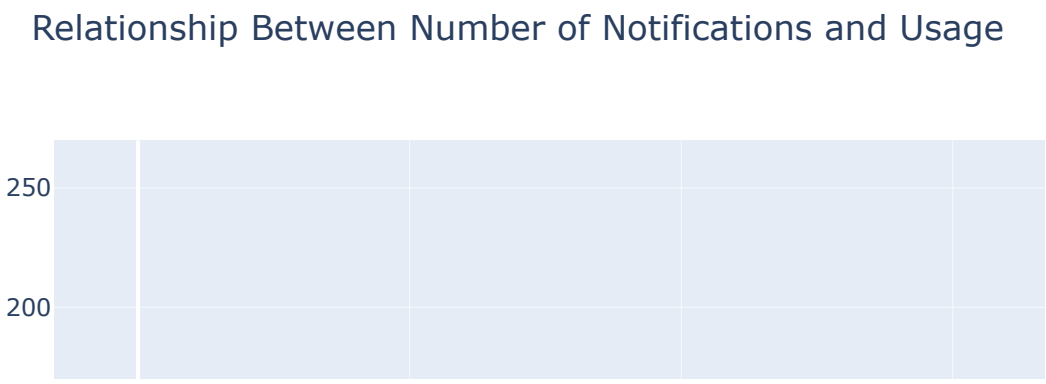
In [17]:
```
#Number of times the apps oppened
```

In [18]:
```
chart = px.bar(data_frame = data,
                   x = "Date",
                   y = "Times opened",
                   color = "App",
                   title = "Times opened")
chart.show()
```



In [19]:
```
#relationship between number of notifications and amount of usage
```

In [20]:
```
chart = px.scatter(data_frame = data,
                   x="Notifications",
                   y="Usage",
                   size="Notifications",
                   trendline="ols",
                   title = "Relationship Between Number of Notifications and Usage
chart.show()
```


Relationship Between Number of Notifications and Usage
250
200