# Screen time analysis

Data analysis of users screen time activities. We will analyzing on which application and how much time and the users have passed most of their time

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Data source: https://www.kaggle.com/code/eswarelangovan/screen-time-analysis-using-python

#### Importing libraries.

```
import pandas as pd
import numpy as np
import plotly.express as px
import plotly.graph_objects as go
```

#### Importing dataset

```
data = pd.read_csv("./Screentime_ App_Details.csv")
data.head()
```

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

#### **Data cleaning**

```
data.isnull().sum()
    Date
                     0
    Usage
                     0
    Notifications
    Times opened
                     0
                     0
    dtype: int64
data.isna().sum()
    Date
    Usage
    Notifications
                     0
    Times opened
                     0
    App
    dtype: int64
```

Our dataset seems fine, there's no irregulatities so far.

No transformation is needed in the dataset.

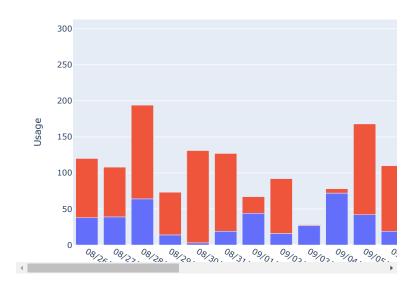
## Data analysis and visualizations.

Let's see the daily usage of each app

```
usage = px.bar(
   data_frame= data,
   x = "Date",
   y = "Usage",
   color = "App",
   title = "Daily usage"
```

```
usage.show()
```

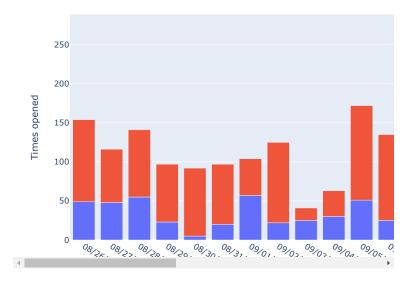
### Daily usage



Now the number of times the have been opened each day

```
opening = px.bar(
   data_frame= data,
   x = "Date",
   y = "Times opened",
   color = "App",
   title = "Number of time opened by day"
)
opening.show()
```

## Number of time opened by day

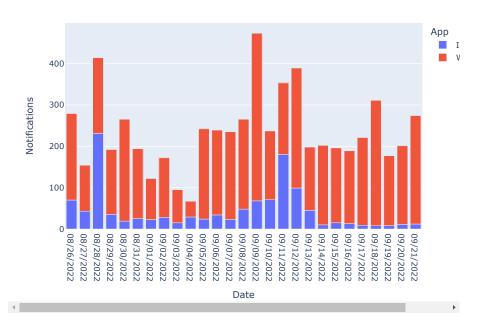


Number of daily notifiactions by application.

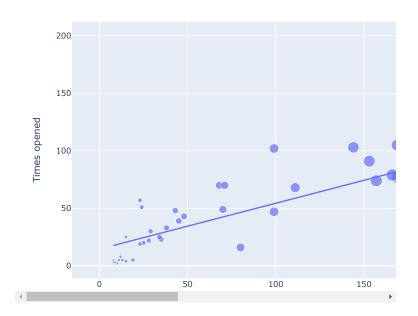
```
notif = px.bar(
```

```
data_frame= data,
  x = "Date",
  y = "Notifications",
  color = "App",
  title = "Number of notications by app"
)
notif.show()
```

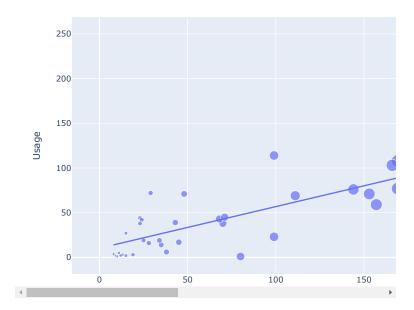
### Number of notifications by app



Let's look for the correlation between the number of notifications and the number of time the apps have been opened.



What about the number of notifications and the number of daily usage.



It shows us that the more notifications result in a more use of devices and in a more opening of applications.

And so, the notifications make people more active on their devices screen and increase their screen time activities.

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