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## Mapas de calor y boxplots

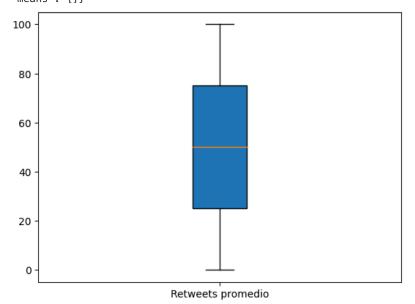
```
1 import numpy as np
2 import pandas as pd
3 import csv
4 import matplotlib.pyplot as plt
5 import seaborn as sns
6
7 df = pd.read_csv('twitter_dataset.csv')
8 df
```

	Tweet_ID	Username	Text	Retweets	Likes	Timestamp	$\blacksquare$
0	1	julie81	Party least receive say or single. Prevent pre	2	25	2023-01-30 11:00:51	11.
1	2	richardhester	Hotel still Congress may member staff. Media d	35	29	2023-01-02 22:45:58	
2	3	williamsjoseph	Nice be her debate industry that year. Film wh	51	25	2023-01-18 11:25:19	
3	4	danielsmary	Laugh explain situation career occur serious	37	18	2023-04-10 22:06:29	
4	5	carlwarren	Involve sense former often approach government	27	80	2023-01-24 07:12:21	
			Agree reflect military			0000_04_4E	

1 plt.boxplot([df["Retweets"]], patch\_artist=True, labels=["Retweets promedio"])

1 plt.boxplot([df["Likes"]], patch\_artist=True, labels=["Retweets promedio"])

Retweets promedio



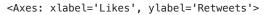
1 sns.boxplot(data=df, y="Retweets", x="Username")

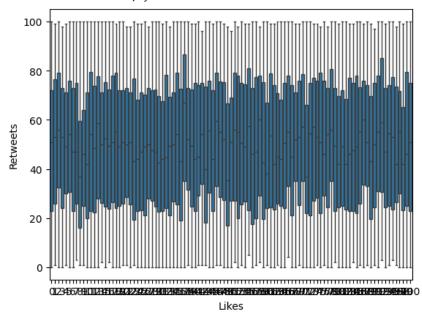
Axes: xlabel='Username', ylabel='Retweets'>

100 80 40 20 20 -

Username

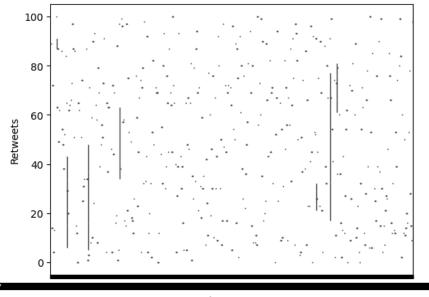
1 sns.boxplot(data=df, y="Retweets", x="Likes")





1 sns.boxplot(data=df, y="Retweets", x="Timestamp")

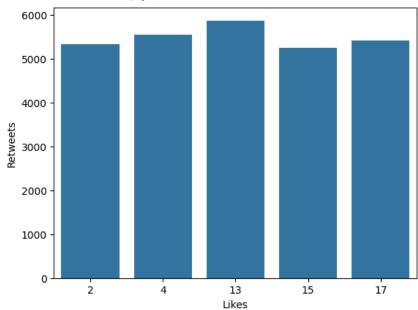
<Axes: xlabel='Timestamp', ylabel='Retweets'>



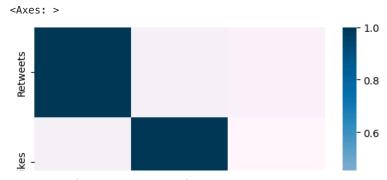
Timestamp

- 1 ydf=df[df["Likes"]<=20]
  2 ydf=ydf.groupby(["Likes"]).sum()</pre>
- 3 ydf=ydf.sort\_values("Retweets", ascending=False)
  4 sns.barplot(data=ydf.head(5),y="Retweets", x="Likes")

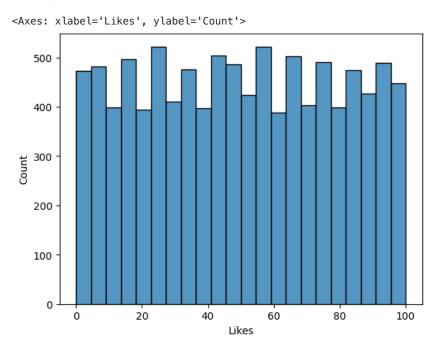
<Axes: xlabel='Likes', ylabel='Retweets'>



- 1 dfcor=df[['Retweets','Likes','Tweet\_ID']].corr()
- 2 sns.heatmap(dfcor,cmap="PuBu")



1 sns.histplot(data=df,x="Likes")



## Resolución de preguntas:

## ¿Hay alguna variable que no aporta información?

Sí, hay 2 variables que no aportan información porque no se pueden comparar numericamente, las cuales son el Tweet\_ID y el texto del tweet. El tweet ID se puede sacar sumándole uno al índice de cada tweet, entonces no es de ningún valor, solo es informativo si se quiere

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