

```
In [36]: import pandas as pd
```

```
In [37]: df = pd.read_csv('train.csv')
```

```
In [38]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3198 entries, 0 to 3197
Data columns (total 19 columns):
#   Column                                Non-Null Count  Dtype
---  -
0   Video_id                             3198 non-null   object
1   category_id                           3192 non-null   object
2   channel_title                         3195 non-null   object
3   subscriber                            3175 non-null   float64
4   title                                 3195 non-null   object
5   tags                                  3046 non-null   object
6   description                           3133 non-null   object
7   Trend_day_count                       3197 non-null   float64
8   Tag_count                             3197 non-null   object
9   Trend_tag_count                       3197 non-null   object
10  comment_count                         3198 non-null   object
11  comment_disabled                      3198 non-null   object
12  like dislike disabled                 3198 non-null   object
13  likes                                3198 non-null   object
14  dislike                              3198 non-null   object
15  tag appered in title                  3197 non-null   object
16  views                                3198 non-null   object
17  Unnamed: 17                           1 non-null      float64
18  Unnamed: 18                           1 non-null      object
dtypes: float64(3), object(16)
memory usage: 474.8+ KB
```

In [39]: `df.head(10)`

Out[39]:

	Video_id	category_id	channel_title	subscriber	title	
0	HDR9SQc79	22	CaseyNeistat	9086142.0	WE WANT TO TALK ABOUT OUR MARRIAGE	
1	KNH52UF?48	24	LastWeekTonight	5937292.0	The Trump Presidency: Last Week Tonight with J...	last week tonight tr
2	QTW28IRG36	23	Rudy Mancuso	4191209.0	Racist Superman   Rudy Mancuso, King Bach & Le...	superman rudy mancusc
3	MGL76WI]26	24	Good Mythical Morning	13186408.0	Nickelback Lyrics: Real or Fake?	rhett and link t
4	TWP93KXT70	24	nigahiga	20563106.0	I Dare You: GOING BALD!?	ryan higa hiq
5	JDJ37HWR29	28	iJustine	4652602.0	2 Weeks with iPhone X	ijustine week wi
6	INH29DD?32	24	Saturday Night Live	5292034.0	Roy Moore & Jeff Sessions Cold Open - SNL	SNL Saturday Nigt
7	ENJ69DGJ93	28	CrazyRussianHacker	10474796.0	5 Ice Cream Gadgets put to the Test	5 Ice Cream Gadget:
8	ZXD32BTa68	1	20th Century Fox	2453494.0	The Greatest Showman   Official Trailer 2 [HD]...	Trailer Hugt
9	NCA33YGN27	25	Vox	3808198.0	Why the rise of the robots won't mean the end ...	vox.com vox explain st



```
In [40]: df.tail(10)
```

```
Out[40]:
```

	Video_id	category_id	channel_title	subscriber	title	
3188	AVI91YQD43	24	Variety	230720.0	Chloe Grace Moretz on Louis C.K. and the #MeTo...	
3189	UGJ10XAb33	26	AmazingPhil	4232293.0	I Read A Letter From My Younger Self	amazingphil phi
3190	PTM7WHf59	17	NBA	8707071.0	Team LeBron! Best Plays from Every All-Star on...	nba highlights basl
3191	ISJ87JHs2	22	Grace Helbig	3008137.0	My Bachelor Audition Tape // Grace Helbig	grace grace helbig g
3192	ZGR33QU@74	24	Trailers Promos Teasers	NaN	The Hurricane Heist Trailer	The Hurricane He
3193	OKR48DOE67	20	EA SPORTS FIFA	3150213.0	FIFA 18 - FUT Champions Cup Barcelona - Day 1	fifa fifa ultimat
3194	QJK69DS?91	10	JackWhiteVEVO	261596.0	Jack White - Corporation (Audio)	Alternative Corporat
3195	VHF51NVr11	10	JamesBlakeVEVO	28321.0	James Blake - If The Car Beside You Moves Ahead...	James Blake If The Ca
3196	XHU22OAJ39	26	Refinery29	890739.0	Lucie Fink Trains Like A Professional Gymnast ...	refinery29 refine
3197	IFD79NSG47	22	MN khan	0.0	Man drops magnum of Champagne on the floor in ...	

```
In [41]: df.describe()
```

```
Out[41]:
```

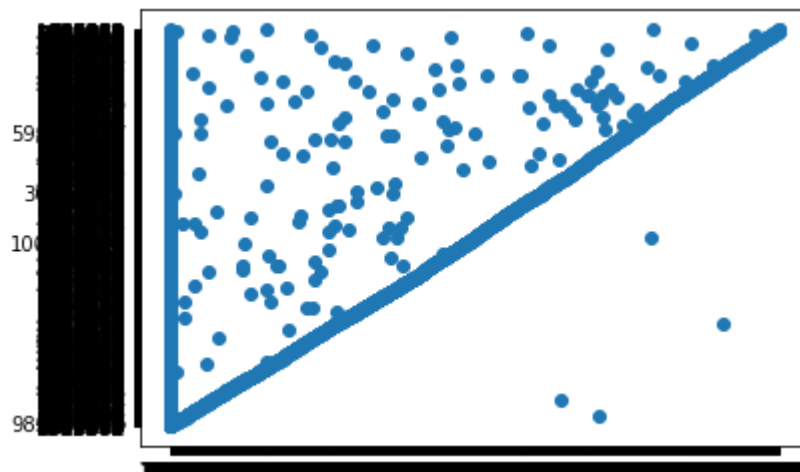
	subscriber	Trend_day_count	Unnamed: 17
count	3.175000e+03	3197.000000	1.0
mean	3.823981e+06	7.964342	2544.0
std	2.865771e+07	78.556055	NaN
min	0.000000e+00	0.000000	2544.0
25%	2.428800e+05	4.000000	2544.0
50%	1.241220e+06	7.000000	2544.0
75%	3.812622e+06	10.000000	2544.0
max	1.576229e+09	4444.000000	2544.0

```
In [42]: import matplotlib.pyplot as plt
```

```
In [43]: plt.hist(df['views'])  
plt.show()
```

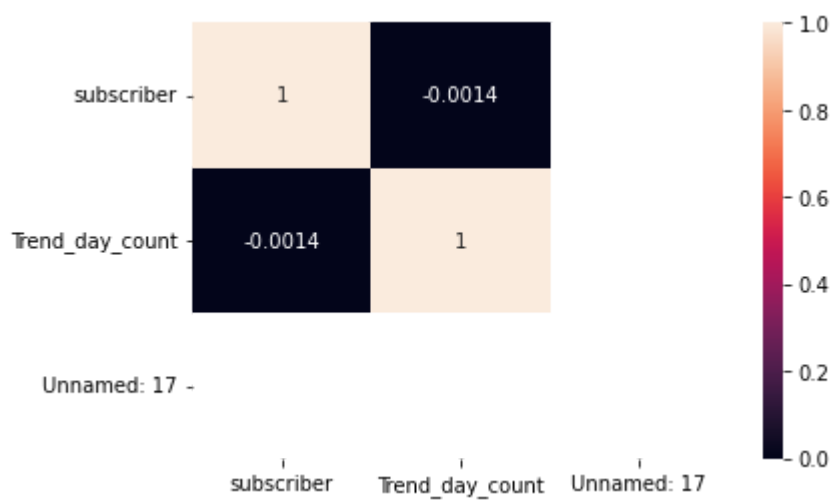


```
In [44]: plt.scatter(df['likes'], df['views'])
plt.show()
```



```
In [45]: import seaborn as sns
```

```
In [46]: sns.heatmap(df.corr(), annot=True)
plt.show()
```



```
In [ ]:
```