

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np

# Downloading Data from website
!wget https://raw.githubusercontent.com/asukul/DS201/master/datasets/USvideos.csv

--2022-10-21 03:14:52-- https://raw.githubusercontent.com/asukul/DS201/master/d
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.1
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.111.
HTTP request sent, awaiting response... 200 OK
Length: 36395702 (35M) [text/plain]
Saving to: 'USvideos.csv'

USvideos.csv      100%[=====>]  34.71M  --.-KB/s    in 0.1s

2022-10-21 03:14:54 (243 MB/s) - 'USvideos.csv' saved [36395702/36395702]

#Preview first 5 rows
df = pd.read_csv('USvideos.csv')
df.head()
```



```

video_id trending_date title channel_title category_id publish_t
WE WANT
TO TALK

a = np.corrcoef(df['views'],df['likes'])
print(a)

[[1. 0.79476055]
 [0.79476055 1. ]]

I IZAFWIRAFY 17.14.11 Last week Lastweek tonight 24 13T07:30:00

b = np.corrcoef(df['views'],df['category_id'])
print(b)

[[ 1. -0.12653373]
 [-0.12653373 1. ]]

I IZAFWIRAFY 17.14.11 Last week Lastweek tonight 24 13T07:30:00

c = np.corrcoef(df['category_id'],df['likes'])
print(c)

[[ 1. -0.13497923]
 [-0.13497923 1. ]]

I Dare You:

df.drop_duplicates()

```

| | video_id | trending_date | title | channel_title | category_id | publi |
|-------|-------------|---------------|---|-----------------------|-------------|----------|
| 0 | 2kyS6SvSYSE | 17.14.11 | WE WANT TO TALK ABOUT OUR MARRIAGE | CaseyNeistat | 22 | 13T17:13 |
| 1 | 1ZAPwfrtAFY | 17.14.11 | The Trump Presidency: Last Week Tonight with J... | LastWeekTonight | 24 | 13T07:30 |
| 2 | 5qpjK5DgCt4 | 17.14.11 | Racist Superman I Rudy Mancuso, King Bach & Le... | Rudy Mancuso | 23 | 12T19:00 |
| 3 | puqaWrEC7tY | 17.14.11 | Nickelback Lyrics: Real or Fake? | Good Mythical Morning | 24 | 13T11:00 |
| 4 | d380meD0W0M | 17.14.11 | I Dare You: GOING BALD!? | nigahiga | 24 | 12T18:00 |
| ... | ... | ... | ... | ... | ... | ... |
| 24946 | 5bJ_gb19pKQ | 18.20.03 | Honest Trailers - Thor: Ragnarok | Screen Junkies | 1 | 06T18:00 |

```
df.nlargest(100, 'views')
```

| | video_id | trending_date | title | channel_title | category_id | pu |
|-------|-------------|---------------|---|--------------------|-------------|------|
| 6181 | FlsCjmMhFmw | 17.14.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T1 |
| 5935 | FlsCjmMhFmw | 17.13.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T1 |
| 5699 | FlsCjmMhFmw | 17.12.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T1 |
| 5452 | FlsCjmMhFmw | 17.11.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T1 |
| 2587 | TyHvyGVs42U | 17.26.11 | Luis Fonsi, Demi Lovato - Échame La Culpa | LuisFonsiVEVO | 10 | 17T0 |
| ... | ... | ... | ... | ... | ... | ... |
| 5417 | vn9mMeWcgoM | 17.11.12 | Jurassic World: Fallen Kingdom - Official Trai... | Universal Pictures | 24 | 08T0 |
| 19688 | YBpdL9hSac4 | 18.22.02 | Incredibles 2 - Olympics Sneak Peek | Disney•Pixar | 1 | 15T0 |
| | | | Ed Sheeran - | | | |

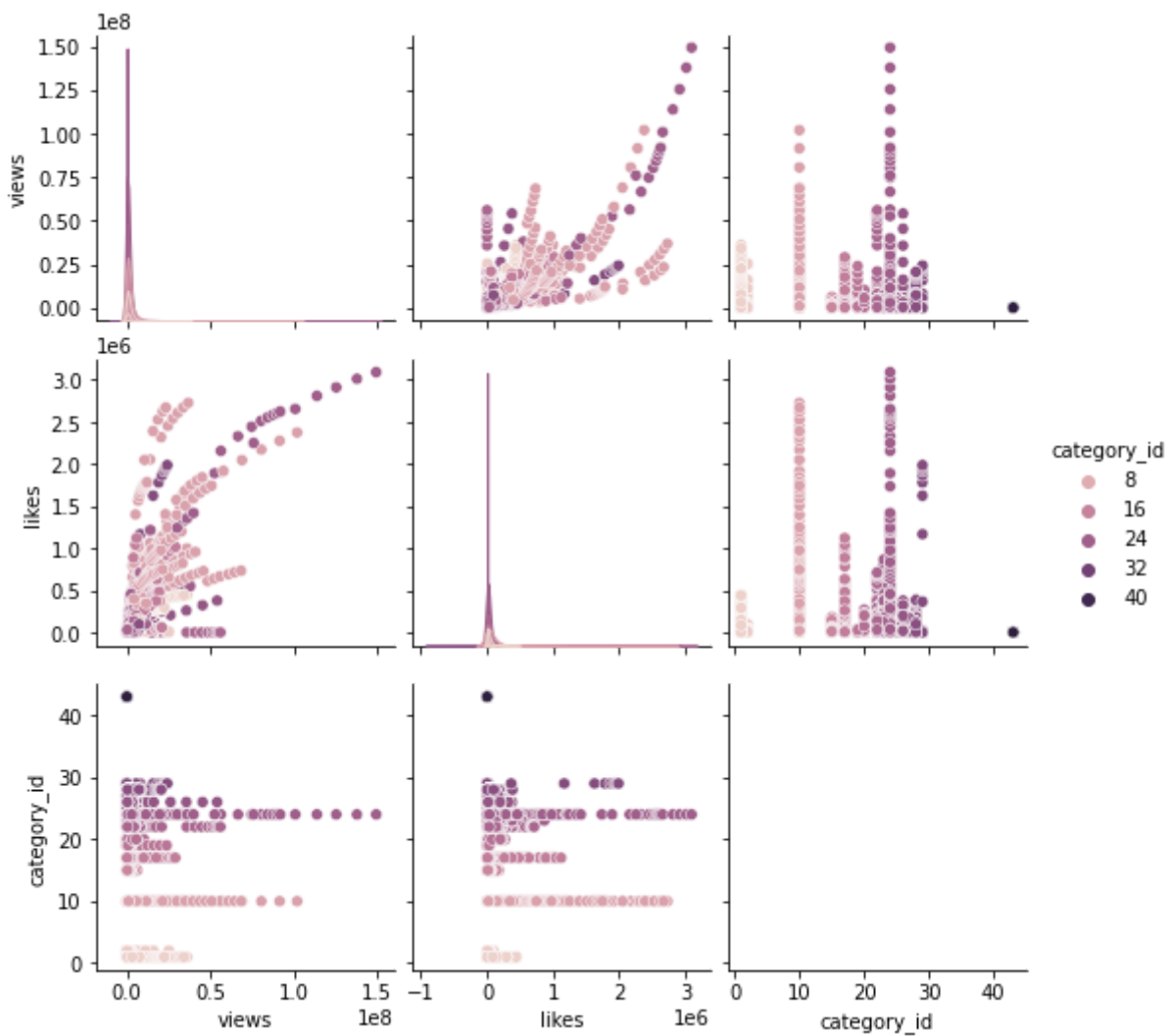
```
df.nlargest(10, ['likes', 'views'])
```

| | video_id | trending_date | title | channel_title | category_id | pub. |
|-------|-------------|---------------|---|----------------------|-------------|-------|
| 6181 | FlsCjmMhFmw | 17.14.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T17 |
| 5935 | FlsCjmMhFmw | 17.13.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T17 |
| 5699 | FlsCjmMhFmw | 17.12.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T17 |
| 5452 | FlsCjmMhFmw | 17.11.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T17 |
| 3581 | kTlv5_Bs8aw | 17.01.12 | BTS (방탄소년 단) 'MIC Drop (Steve Aoki Remix)' Offi... | ibighit | 10 | 24T09 |
| 3349 | kTlv5_Bs8aw | 17.30.11 | BTS (방탄소년 단) 'MIC Drop (Steve Aoki Remix)' Offi... | ibighit | 10 | 24T09 |
| 22040 | OK3GJ0WlQ8s | 18.06.03 | j-hope 'Daydream (백 일몽)' MV | ibighit | 10 | 01T15 |
| 5236 | FlsCjmMhFmw | 17.10.12 | YouTube Rewind: The Shape of 2017 #YouTubeRe... | YouTube Spotlight | 24 | 06T17 |
| 21813 | OK3GJ0WlQ8s | 18.05.03 | j-hope 'Daydream (백 일몽)' MV | ibighit | 10 | 01T15 |

```
df_top100views = df.nlargest(100, 'views')
```

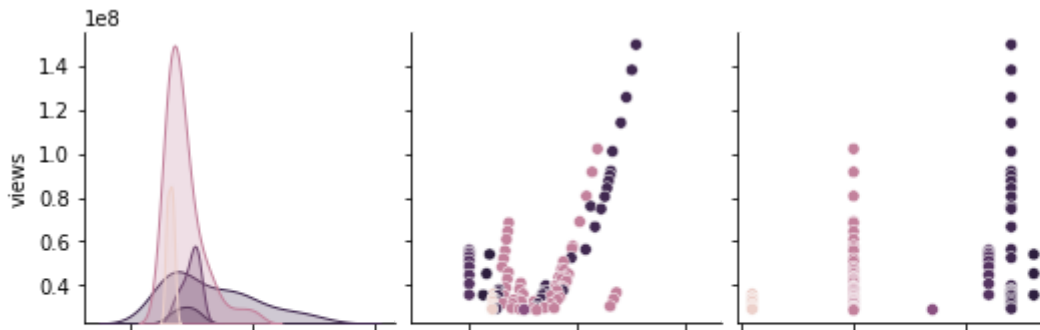
Marvel

```
g = sns.pairplot(df, hue='category_id', vars = ['views', 'likes', 'category_id'])
```

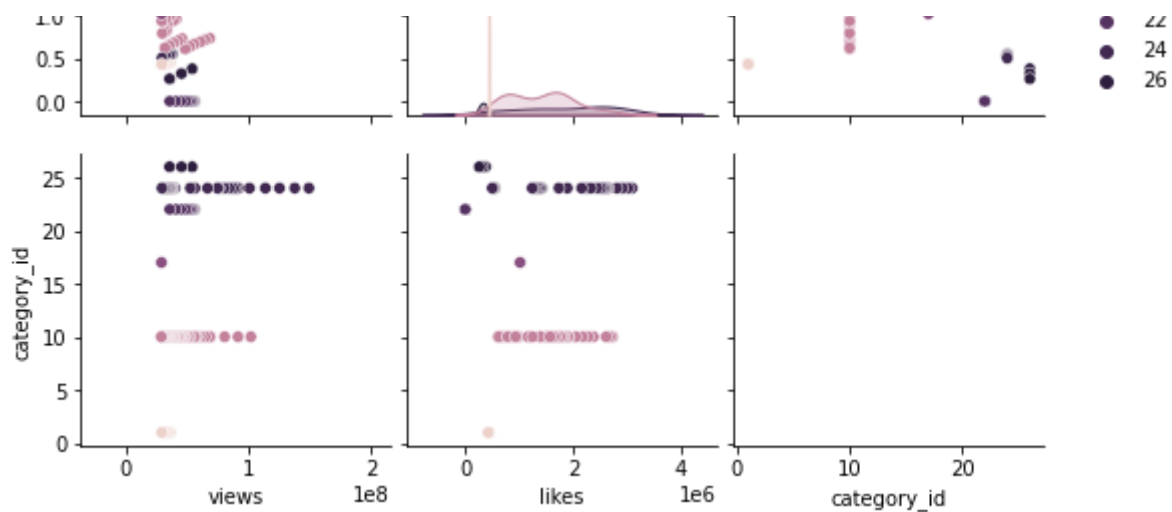


```
sns.pairplot(df_top100views, hue = 'category_id', vars = ['views', 'likes', 'category_
```

```
<seaborn.axisgrid.PairGrid at 0x7f1710e02450>
```



THE SECOND PLOT SEEMS TO BE MORE DEFINED AS WE ARE ONLY TAKING THE 100 VIEWS INTO CONSIDERATION.



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✓ 4s completed at 22:37

