

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

```
data = pd.read_csv("/content/USvideos.csv")
data.shape
```

```
>>> <ipython-input-29-ae7b1189f947>:1: DtypeWarning: Columns (12,13,14) have mixed types. Sp
      data = pd.read_csv("/content/USvideos.csv")
      (34047, 16)
```

```
data = data.drop_duplicates()
data.describe()
data.info()
```

```
>>> <class 'pandas.core.frame.DataFrame'>
      RangeIndex: 34047 entries, 0 to 34046
      Data columns (total 16 columns):
      #   Column                                Non-Null Count  Dtype
      ---  -
      0   video_id                               34047 non-null  object
      1   trending_date                           34047 non-null  object
      2   title                                   34046 non-null  object
      3   channel_title                           34046 non-null  object
      4   category_id                             34046 non-null  float64
      5   publish_time                             34046 non-null  object
      6   tags                                     34046 non-null  object
      7   views                                   34046 non-null  float64
      8   likes                                   34046 non-null  float64
      9   dislikes                                34046 non-null  float64
      10  comment_count                           34046 non-null  float64
      11  thumbnail_link                           34046 non-null  object
      12  comments_disabled                         34046 non-null  object
      13  ratings_disabled                         34046 non-null  object
      14  video_error_or_removed                   34046 non-null  object
      15  description                               33558 non-null  object
      dtypes: float64(5), object(11)
      memory usage: 4.2+ MB
```

```
columns = ['thumbnail_link','description']
data = data.drop(columns = columns)
```

```
nding_date'].apply(lambda x : datetime.datetime.strptime(x,'%y.%d.%m'))
```

```
data.head(5)
```



	video_id	trending_date	title	channel_title	category_id	publish_
0	2kyS6SvSYSE	2017-11-14	WE WANT TO TALK ABOUT OUR MARRIAGE	CaseyNeistat	22	201 13T17:13:01.
1	1ZAPwfrtAFY	2017-11-14	The Trump Presidency: Last Week Tonight with J...	LastWeekTonight	24	201 13T07:30:00.
2	5qpjK5DgCt4	2017-11-14	Racist Superman Rudy Mancuso, King Bach & Le...	Rudy Mancuso	23	201 12T19:05:24.
3	puqaWrEC7tY	2017-11-14	Nickelback Lyrics: Real or Fake?	Good Mythical Morning	24	201 13T11:00:04.
4	d380meD0W0M	2017-11-14	I Dare You: GOING BALD!?	nigahiga	24	201 12T18:01:41.

Next steps:

[Generate code with data](#)[View recommended plots](#)

```

print(sorted(data['category_id'].unique()))
[1, 2, 10, 15, 17, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 43]
data['category_name'] = np.nan
data.loc[(data['category_id'] == 1), 'category_name'] = 'Film and Animation'
data.loc[(data['category_id'] == 2), 'category_name'] = 'Autos and Vehicles'
data.loc[(data['category_id'] == 10), 'category_name'] = 'Music'
data.loc[(data["category_id"] == 15), "category_name"] = 'Pets and Animals'
data.loc[(data ["category_id"] == 17 ), "category_name"] = 'Sports'
data.loc[(data["category_id"] == 19), "category_name"] = 'Travel and Events'
data.loc[(data["category_id"] == 20 ), "category_name"] = 'Gaming'
data.loc[(data["category_id"] == 22 ), "category_name"] = 'People and Blogs'
data.loc[(data["category_id"]== 23), "category_name"] = 'Comedy'
data.loc[(data["category_id"]== 24), "category_name"] = 'Entertainment'
data.loc[(data["category_id"] == 25), "category_name"] = 'News and Politics'
data.loc[(data["category_id"] == 26), "category_name"] = 'How to and Style'
data.loc[(data["category_id"]== 27), "category_name"] = 'Education'
data.loc[(data["category_id"] == 28), "category_name"] = 'Science and Technology'
data.loc[(data["category_id"] == 29), "category_name"] = 'Non Profits and Activism'
data.loc[(data["category_id"] == 30), "category_name"] = 'Movies'
data.loc[(data["category_id"] == 43), "category_name"] = 'Shows'

```

↩ [1.0, 2.0, 10.0, 15.0, 17.0, 19.0, 20.0, 22.0, 23.0, 24.0, 25.0, 26.0, 27.0, 28.0, 29.0,

data.head()

↩

	video_id	trending_date	title	channel_title	category_id	publish_
0	2kyS6SvSYSE	2017-11-14	WE WANT TO TALK ABOUT OUR MARRIAGE	CaseyNeistat	22.0	2013T17:13:01.
1	1ZAPwfrtAFY	2017-11-14	The Trump Presidency: Last Week Tonight with J...	LastWeekTonight	24.0	2013T07:30:00.
2	5qpjK5DgCt4	2017-11-14	Racist Superman Rudy Mancuso, King Bach & Le...	Rudy Mancuso	23.0	2012T19:05:24.
3	puqaWrEC7tY	2017-11-14	Nickelback Lyrics: Real or Fake?	Good Mythical Morning	24.0	2013T11:00:04.
4	d380meD0W0M	2017-11-14	I Dare You: GOING BALD!?	nigahiga	24.0	2012T18:01:41.

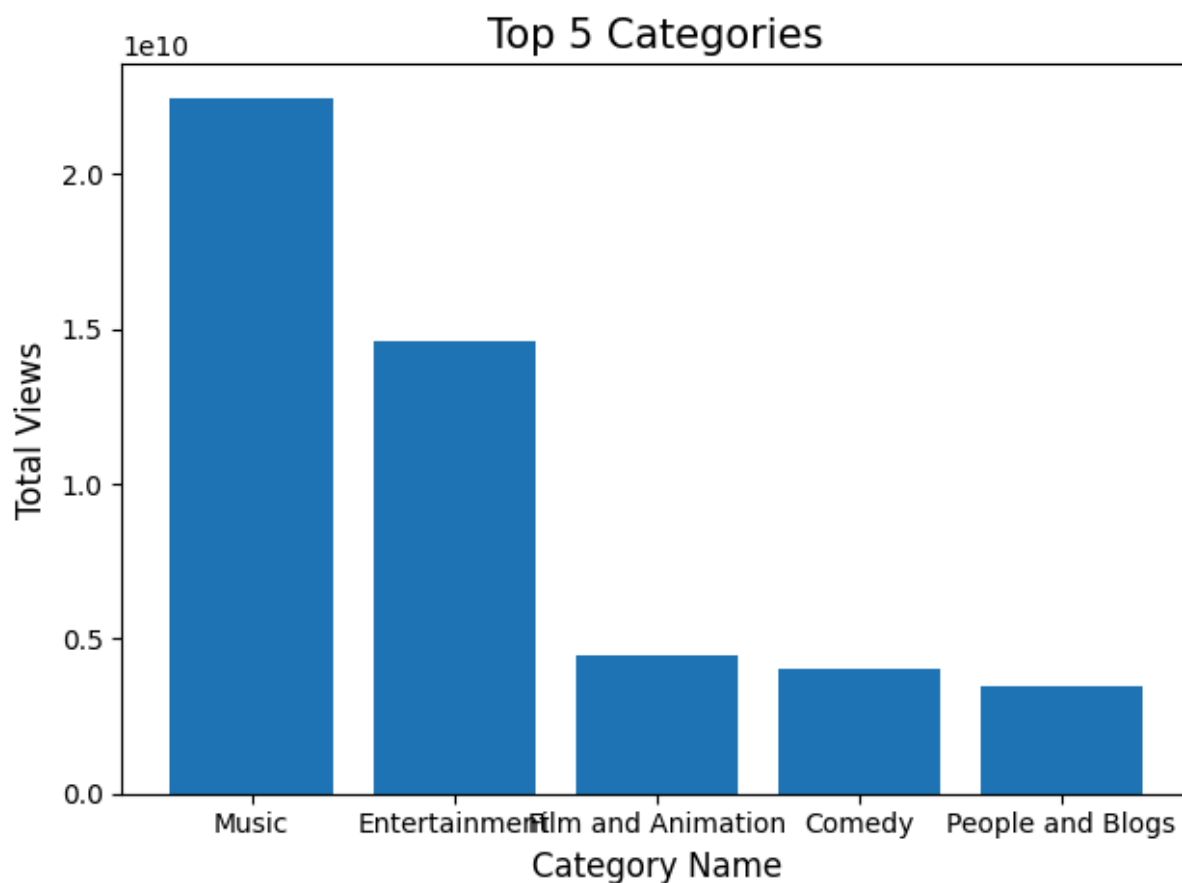
Next steps:

[Generate code with data](#)

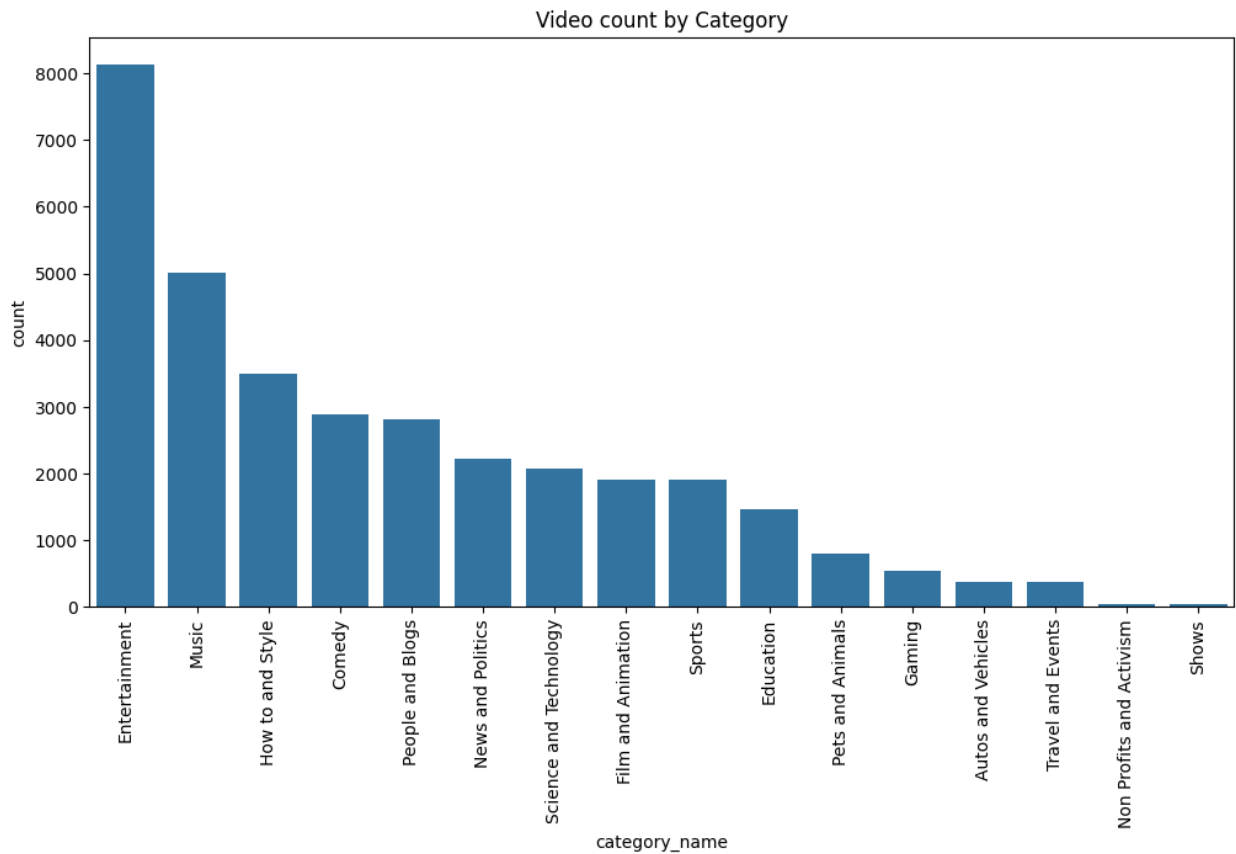


[View recommended plots](#)

```
category_views = data.groupby('category_name')['views'].sum().reset_index
top_categories = category_views.sort_values(by='views', ascending = False)
plt.bar(top_categories['category_name'], top_categories['views'])
plt.xlabel('Category Name', fontsize = 12)
plt.ylabel('Total Views', fontsize = 12)
plt.title('Top 5 Categories', fontsize = 15)
plt.tight_layout()
plt.show()
```



```
plt.figure(figsize = (12,6))
sns.countplot(x = 'category_name', data=data, order=data['category_name'])
plt.xticks(rotation=90)
plt.title('Video count by Category')
plt.show()
```



```
plt.figure(figsize = (14,8))
plt.subplots_adjust(wspace = 0.2,hspace = 0.4, top = 0.9)
plt.subplot(2,2,1)
g = sns.countplot(x = 'comments_disabled', data = data)
g.set_title("Comments Disabled",fontsize= 16)
plt.subplot(2,2,2)
g1 = sns.countplot(x = 'ratings_disabled', data = data)
g1.set_title("Rating Disabled",fontsize = 16)
plt.subplot(2,2,3)
g2 = sns.countplot(x = 'video_error_or_removed',data = data)
g2.set_title("Video Error or Removed",fontsize = 16)
plt.show()
```



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