YouTube IN

Ask a question about your data

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show me totalviews for the last week | show me totalviews for the last year | show me totalviews for the last month | show totalviews | maximum like ratio

/CHANNELNAME

3Blue1Brown

Alex The Analyst

CampusX

Chandoo

codebasics

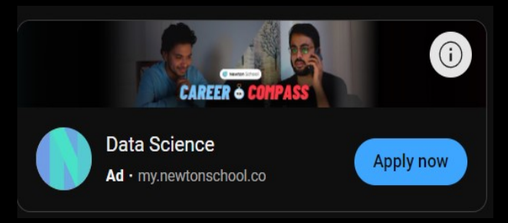
freeCodeCamp.org

Krish Naik

techTFQ

Channel title--Video title

Video title
3Blue1Brown--2021 Summer of Math Exposition results
3Blue1Brown--3blue1brown channel trailer
3Blue1Brown--A Curious Pattern Indeed
3Blue1Brown--A quick trick for computing eigenvalues | Chapter 15, Essence of linear algebra
3Blue1Brown--Abstract vector spaces | Chapter 16, Essence of linear algebra
3Blue1Brown--Alice, Bob, and the average area of a cube's shadow
3Blue1Brown--All possible pythagorean triples, visualized
3Blue1Brown--Backpropagation calculus | Chapter 4, Deep learning
3Blue1Brown--Bayes theorem, the geometry of changing beliefs
3Blue1Brown--Beyond the Mandelbrot set, an intro to holomorphic dynamics



Top 10 Most Liked videos

title
Your First Data Analytics Project
You Are The One!!
Xavier/Glorat And He Weight Initialization in Deep Learning
Why the Journey Matters More Than Your Goal|Motivation
Why Multicollinearity is Bad? What is Multicollinearity? How to detect and remove Multicollinearity
Why is Python slow?
Why I Quit my 125k Analytics Job
Why I love Python?
Why I am Quitting YouTube? My last YouTube video...(April Fool's Prank)
Why Do I Teach? Motivations
Why And How Did I Get Into Data Science? Sharing My Data Science Experience In 20 min
Who Is The Best Person To Judge You? Motivational Talks
Who Are My Channel Audience? (Important

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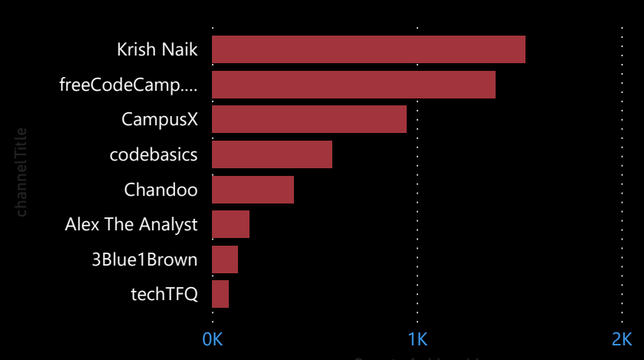
Year

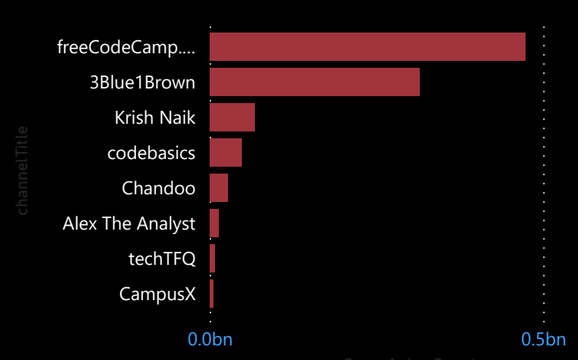
2009 | 2017
2010 | 2018
2011 | 2019
2012 | 2020
2013 | 2021
2014 | 2022
2015
2016

Total video Posted	View's	Like's	Comment's
5241	955M	23M	1M

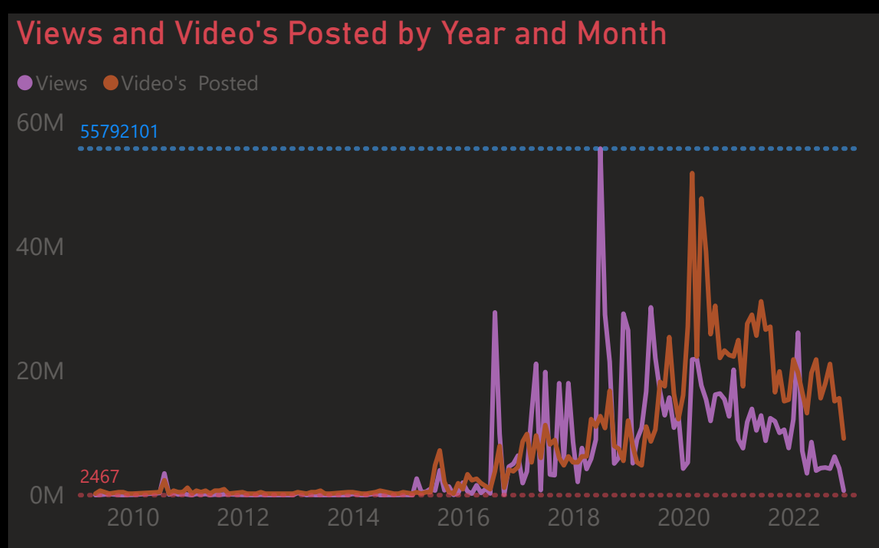
Video Published



Views



Views and Video's Posted by Year and Month



In [1]:
```
!pip install --upgrade google-api-python-client
```

```
Requirement already satisfied: google-api-python-client in c:\users\lohit\anaconda3\lib\site-packages (2.70.0)
Requirement already satisfied: google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0dev,>=1.31.5 in c:\users\lo
hit\anaconda3\lib\site-packages (from google-api-python-client) (2.11.0)
Requirement already satisfied: google-auth<3.0.0dev,>=1.19.0 in c:\users\lohit\anaconda3\lib\site-packages (fro
m google-api-python-client) (2.15.0)
Requirement already satisfied: uritemplate<5,>=3.0.1 in c:\users\lohit\anaconda3\lib\site-packages (from google
-api-python-client) (4.1.1)
Requirement already satisfied: httplib2<1dev,>=0.15.0 in c:\users\lohit\anaconda3\lib\site-packages (from googl
e-api-python-client) (0.21.0)
Requirement already satisfied: google-auth-httplib2>=0.1.0 in c:\users\lohit\anaconda3\lib\site-packages (from
google-api-python-client) (0.1.0)
Requirement already satisfied: requests<3.0.0dev,>=2.18.0 in c:\users\lohit\anaconda3\lib\site-packages (from g
oogle-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0dev,>=1.31.5->google-api-python-client) (2.27.1)
Requirement already satisfied: googleapis-common-protos<2.0dev,>=1.56.2 in c:\users\lohit\anaconda3\lib\site-pa
ckages (from google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0dev,>=1.31.5->google-api-python-client) (1.57
.0)
Requirement already satisfied: protobuf!=3.20.0,!=3.20.1,!=4.21.0,!=4.21.1,!=4.21.2,!=4.21.3,!=4.21.4,!=4.21.5,
<5.0.0dev,>=3.19.5 in c:\users\lohit\anaconda3\lib\site-packages (from google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!
=2.3.0,<3.0.0dev,>=1.31.5->google-api-python-client) (4.21.12)
Requirement already satisfied: six>=1.9.0 in c:\users\lohit\anaconda3\lib\site-packages (from google-auth<3.0.0
dev,>=1.19.0->google-api-python-client) (1.16.0)
Requirement already satisfied: cachetools<6.0,>=2.0.0 in c:\users\lohit\anaconda3\lib\site-packages (from googl
e-auth<3.0.0dev,>=1.19.0->google-api-python-client) (4.2.2)
Requirement already satisfied: pyasn1-modules>=0.2.1 in c:\users\lohit\anaconda3\lib\site-packages (from google
-auth<3.0.0dev,>=1.19.0->google-api-python-client) (0.2.8)
Requirement already satisfied: rsa<5,>=3.1.4 in c:\users\lohit\anaconda3\lib\site-packages (from google-auth<3.
0.0dev,>=1.19.0->google-api-python-client) (4.7.2)
Requirement already satisfied: pyparsing!=3.0.0,!=3.0.1,!=3.0.2,!=3.0.3,<4,>=2.4.2 in c:\users\lohit\anaconda3\
lib\site-packages (from httplib2<1dev,>=0.15.0->google-api-python-client) (3.0.4)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in c:\users\lohit\anaconda3\lib\site-packages (from pyasn1-
modules>=0.2.1->google-auth<3.0.0dev,>=1.19.0->google-api-python-client) (0.4.8)
Requirement already satisfied: idna<4,>=2.5 in c:\users\lohit\anaconda3\lib\site-packages (from requests<3.0.0d
ev,>=2.18.0->google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0dev,>=1.31.5->google-api-python-client) (3.3)
Requirement already satisfied: charset-normalizer~=2.0.0 in c:\users\lohit\anaconda3\lib\site-packages (from re
quests<3.0.0dev,>=2.18.0->google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0dev,>=1.31.5->google-api-python-
client) (2.0.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\lohit\anaconda3\lib\site-packages (from reques
ts<3.0.0dev,>=2.18.0->google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0dev,>=1.31.5->google-api-python-clie
nt) (1.26.9)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\lohit\anaconda3\lib\site-packages (from requests<
3.0.0dev,>=2.18.0->google-api-core!=2.0.*,!=2.1.*,!=2.2.*,!=2.3.0,<3.0.0dev,>=1.31.5->google-api-python-client)
(2021.10.8)
```

In [1]:
```
import googleapiclient
# For web scrapping
from googleapiclient.discovery import build
import pandas as pd
import json

# Data Visulation package
import seaborn as sns
import matplotlib.pyplot as plt
```

In [2]:
```
   # Create api key  by api services in google colud platform
   # Create your own api key
   # Use youtube data api

api_service_name = "youtube"
api_version = "v3"
api_key = 'AIzaSyCmeD-0fABUOKzro2s6RD1qxcOF3uljpxk'

youtube = googleapiclient.discovery.build(api_service_name, api_version, developerKey=api_key)
```

In [3]:
```
channel_id=["UCnz-ZXXER4jOvuED5trXfEA",
            "UCNU_lfiiWBdtULKOw6X0Dig",
            "UC8uU_wruBMHeeRma49dtZKA",
            "UC7cs8q-gJRlGwj4A8OmCmXg",
            "UCh9nVJoWXmFb7sLApWGcLPQ",
            "UCYO_jab_esuFRV4b17AJtAw",
            "UCCWi3hpnq_Pe03nGxuS7isg",
            "UC8butISFwT-Wl7EV0hUK0BQ"]
len(channel_id)
```

Out[3]:
```
8
```

Function to get channel statistics

In [4]:
```
def get_channel_status(youtube,channel_id ):
    request = youtube.channels().list(
        part="snippet,contentDetails,statistics",
        id=",".join(channel_id)
    )
```

```
    response = request.execute()

    Channel=[]
    for i in range(len(response["items"])):
        data = dict(Channel_name=response['items'][i]["snippet"]["title"],
                Channel_launch=response['items'][i]["snippet"]["publishedAt"],
                Subscribers=response['items'][i]["statistics"][ "subscriberCount"],
                Total_videos=response['items'][i]["statistics"]["videoCount"],
                Total_views=response['items'][i]["statistics"]["viewCount"],
                Channel_id=response['items'][i]['id'],
                Playlist_id=response['items'][i]['contentDetails']['relatedPlaylists']["uploads"])
        Channel.append(data)

    return Channel
```

In [5]:
```
Channel=(get_channel_status(youtube,channel_id))
Channels=pd.DataFrame(Channel)
Channels
```

Out[5]:

	Channel_name	Channel_launch	Subscribers	Total_videos	Total_views	Channel_id	Playlis
0	Alex The Analyst	2020-01-08T05:04:24.970712Z	334000	183	13141597	UC7cs8q-gJRlGwj4A8OmCmXg	UU7cs8q-gJRlGwj4A8OmC
1	techTFQ	2020-06-13T05:20:37.182391Z	149000	82	7045319	UCnz-ZXXER4jOvuED5trXfEA	UUnz-ZXXER4jOvuED5trX
2	codebasics	2015-11-07T17:29:46Z	711000	586	48167085	UCh9nVJoWXmFb7sLApWGcLPQ	UUh9nVJoWXmFb7sLApWGc
3	freeCodeCamp.org	2014-12-16T21:18:48Z	6930000	1383	473668469	UC8butISFwT-Wl7EV0hUK0BQ	UU8butISFwT-Wl7EV0hUK
4	Krish Naik	2012-02-11T04:05:06Z	699000	1593	67365717	UCNU_lfiiWBdtULKOw6X0Dig	UUNU_lfiiWBdtULKOw6X
5	3Blue1Brown	2015-03-03T23:11:55Z	4880000	127	315125116	UCYO_jab_esuFRV4b17AJtAw	UUYO_jab_esuFRV4b17A
6	CampusX	2019-04-17T19:32:35Z	57000	979	4880337	UCCWi3hpnq_Pe03nGxuS7isg	UUCWi3hpnq_Pe03nGxuS
7	Chandoo	2009-05-02T06:44:42Z	372000	398	27410148	UC8uU_wruBMHeeRma49dtZKA	UU8uU_wruBMHeeRma49dt

In [6]:
```
Channels=Channels.sort_values(by=["Channel_name"]).reset_index(drop=True)
```

In [7]:
```
Channels
```

Out[7]:

	Channel_name	Channel_launch	Subscribers	Total_videos	Total_views	Channel_id	Playlis
0	3Blue1Brown	2015-03-03T23:11:55Z	4880000	127	315125116	UCYO_jab_esuFRV4b17AJtAw	UUYO_jab_esuFRV4b17A
1	Alex The Analyst	2020-01-08T05:04:24.970712Z	334000	183	13141597	UC7cs8q-gJRlGwj4A8OmCmXg	UU7cs8q-gJRlGwj4A8OmC
2	CampusX	2019-04-17T19:32:35Z	57000	979	4880337	UCCWi3hpnq_Pe03nGxuS7isg	UUCWi3hpnq_Pe03nGxuS
3	Chandoo	2009-05-02T06:44:42Z	372000	398	27410148	UC8uU_wruBMHeeRma49dtZKA	UU8uU_wruBMHeeRma49dt
4	Krish Naik	2012-02-11T04:05:06Z	699000	1593	67365717	UCNU_lfiiWBdtULKOw6X0Dig	UUNU_lfiiWBdtULKOw6X
5	codebasics	2015-11-07T17:29:46Z	711000	586	48167085	UCh9nVJoWXmFb7sLApWGcLPQ	UUh9nVJoWXmFb7sLApWGc
6	freeCodeCamp.org	2014-12-16T21:18:48Z	6930000	1383	473668469	UC8butISFwT-Wl7EV0hUK0BQ	UU8butISFwT-Wl7EV0hUK
7	techTFQ	2020-06-13T05:20:37.182391Z	149000	82	7045319	UCnz-ZXXER4jOvuED5trXfEA	UUnz-ZXXER4jOvuED5trX

In [8]:
```
Channels.dtypes
```

Out[8]:
```
Channel_name      object
Channel_launch    object
Subscribers       object
Total_videos      object
Total_views       object
Channel_id        object
Playlist_id       object
dtype: object
```

In [11]:
```
Channels["Subscribers"]= pd.to_numeric(Channels["Subscribers"])
Channels["Total_videos"]= pd.to_numeric(Channels["Total_videos"])
Channels["Total_views"]= pd.to_numeric(Channels["Total_views"])
Channels["Channel_launch"]= pd.to_datetime(Channels["Channel_launch"]).dt.date
```

In [12]:
```
Channels.dtypes
```

Out[12]:
```
Channel_name      object
Channel_launch    object
Subscribers        int64
Total_videos       int64
Total_views        int64
Channel_id        object
Playlist_id       object
dtype: object
```

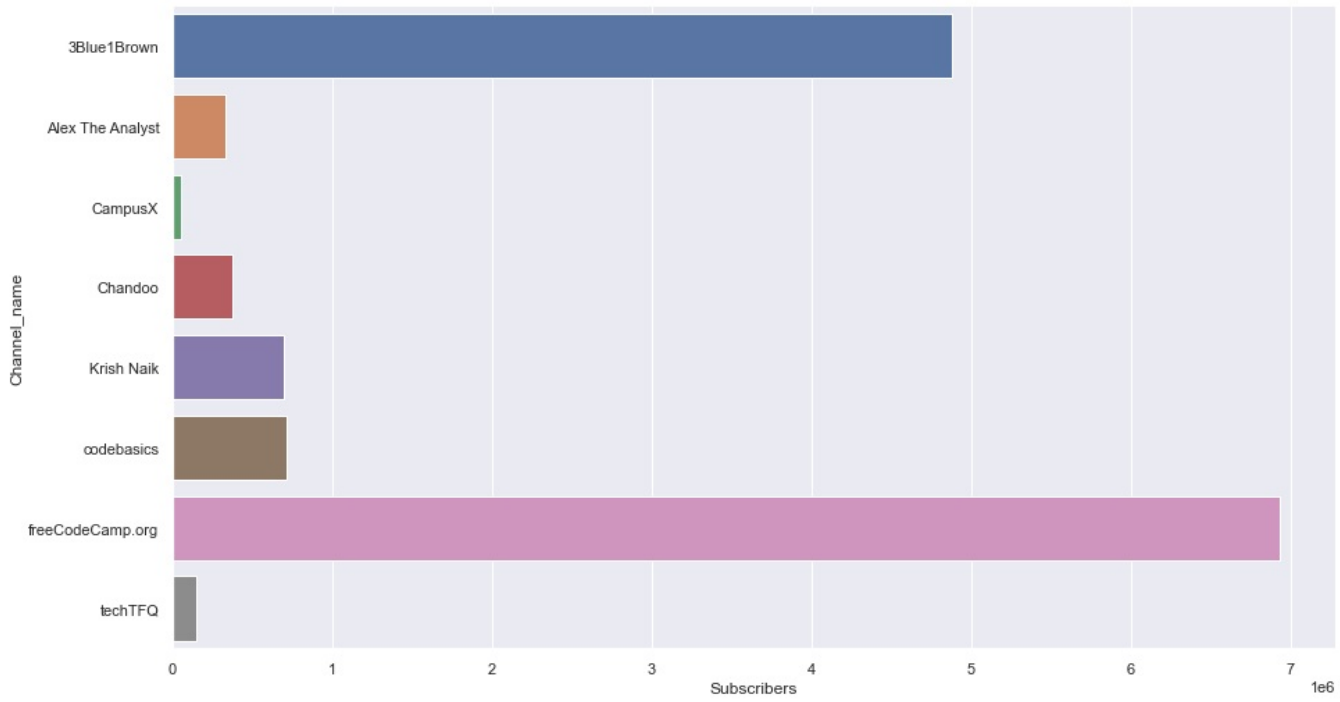
In [13]:
```
Channels
```

Out[13]:

	Channel_name	Channel_launch	Subscribers	Total_videos	Total_views	Channel_id	Playlist_id
0	3Blue1Brown	2015-03-03	4880000	127	315125116	UCYO_jab_esuFRV4b17AJtAw	UUYO_jab_esuFRV4b17AJtAw
1	Alex The Analyst	2020-01-08	334000	183	13141597	UC7cs8q-gJRlGwj4A8OmCmXg	UU7cs8q-gJRlGwj4A8OmCmXg
2	CampusX	2019-04-17	57000	979	4880337	UCCWi3hpnq_Pe03nGxuS7isg	UUCWi3hpnq_Pe03nGxuS7isg
3	Chandoo	2009-05-02	372000	398	27410148	UC8uU_wruBMHeeRma49dtZKA	UU8uU_wruBMHeeRma49dtZKA
4	Krish Naik	2012-02-11	699000	1593	67365717	UCNU_lfiiWBdtULKOw6X0Dig	UUNU_lfiiWBdtULKOw6X0Dig
5	codebasics	2015-11-07	711000	586	48167085	UCh9nVJoWXmFb7sLApWGcLPQ	UUh9nVJoWXmFb7sLApWGcLPQ
6	freeCodeCamp.org	2014-12-16	6930000	1383	473668469	UC8butISFwT-Wl7EV0hUK0BQ	UU8butISFwT-Wl7EV0hUK0BQ
7	techTFQ	2020-06-13	149000	82	7045319	UCnz-ZXXER4jOvuED5trXfEA	UUnz-ZXXER4jOvuED5trXfEA

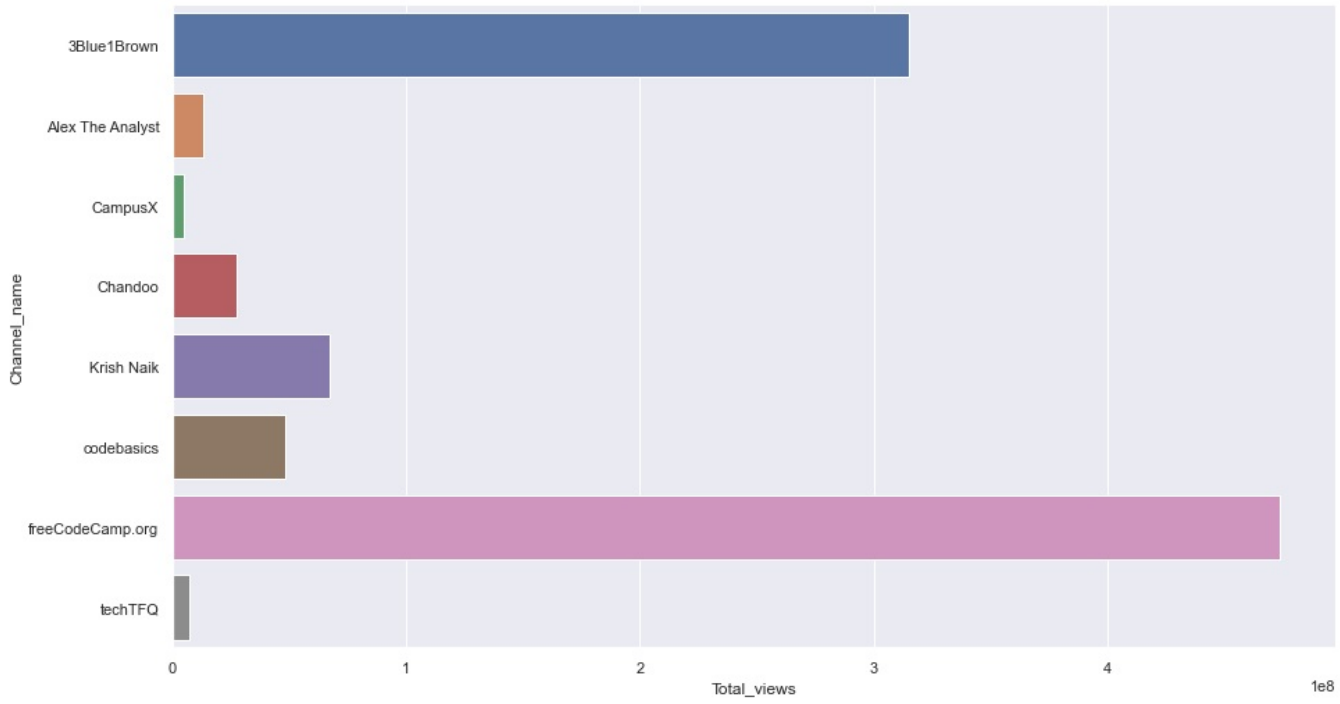
In [14]:
```
sns.set(rc={'figure.figsize':(15,8.5)})
sns.barplot(y=Channels["Channel_name"],x=Channels["Subscribers"])
```

Out[14]:
```
<AxesSubplot:xlabel='Subscribers', ylabel='Channel_name'>
```



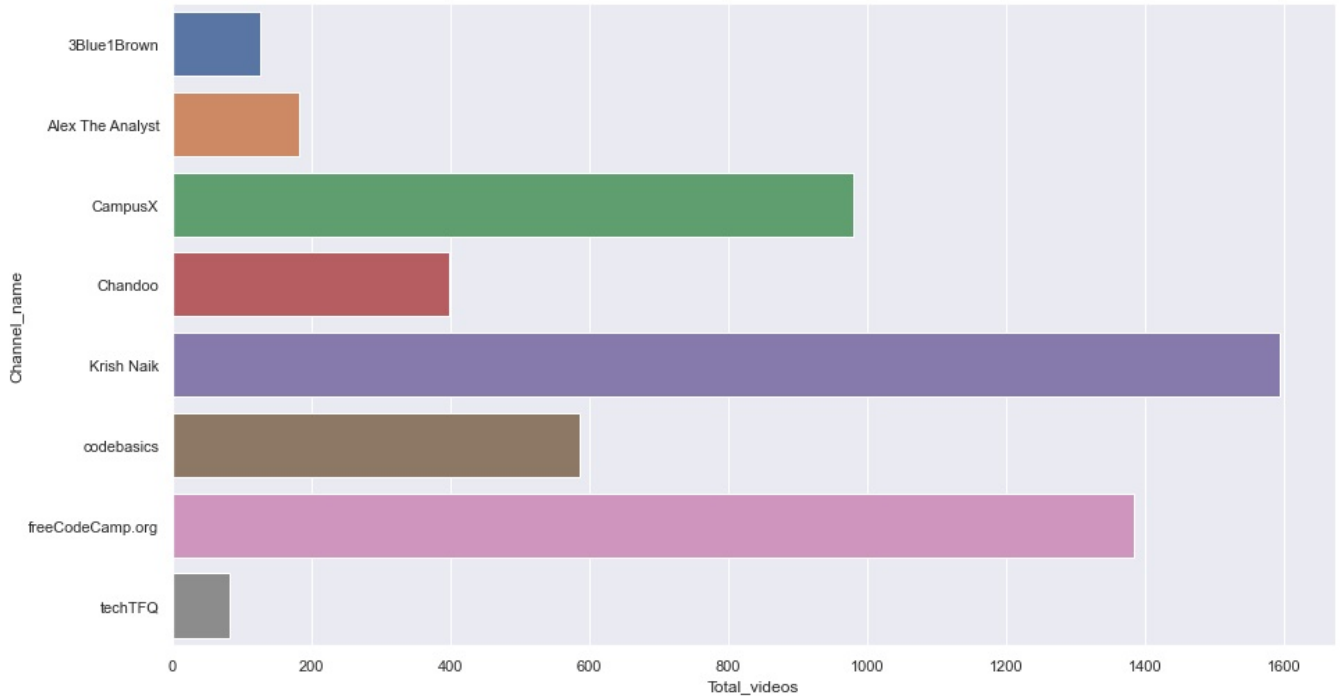
In [15]:
```
sns.set(rc={'figure.figsize':(15,8.5)})
sns.barplot(y=Channels["Channel_name"],x=Channels["Total_views"])
```

Out[15]:
```
<AxesSubplot:xlabel='Total_views', ylabel='Channel_name'>
```



In [16]:
```
sns.set(rc={'figure.figsize':(15,8.5)})
sns.barplot(y=Channels["Channel_name"],x=Channels["Total_videos"])
```

Out[16]:
```
<AxesSubplot:xlabel='Total_videos', ylabel='Channel_name'>
```



In [17]:
```
Channels
```

Out[17]:

	Channel_name	Channel_launch	Subscribers	Total_videos	Total_views	Channel_id	Playlist_id
0	3Blue1Brown	2015-03-03	4880000	127	315125116	UCYO_jab_esuFRV4b17AJtAw	UUYO_jab_esuFRV4b17AJtAw
1	Alex The Analyst	2020-01-08	334000	183	13141597	UC7cs8q-gJRlGwj4A8OmCmXg	UU7cs8q-gJRlGwj4A8OmCmXg
2	CampusX	2019-04-17	57000	979	4880337	UCCWi3hpnq_Pe03nGxuS7isg	UUCWi3hpnq_Pe03nGxuS7isg
3	Chandoo	2009-05-02	372000	398	27410148	UC8uU_wruBMHeeRma49dtZKA	UU8uU_wruBMHeeRma49dtZKA
4	Krish Naik	2012-02-11	699000	1593	67365717	UCNU_lfiiWBdtULKOw6X0Dig	UUNU_lfiiWBdtULKOw6X0Dig
5	codebasics	2015-11-07	711000	586	48167085	UCh9nVJoWXmFb7sLApWGcLPQ	UUh9nVJoWXmFb7sLApWGcLPQ
6	freeCodeCamp.org	2014-12-16	6930000	1383	473668469	UC8butISFwT-Wl7EV0hUK0BQ	UU8butISFwT-Wl7EV0hUK0BQ
7	techTFQ	2020-06-13	149000	82	7045319	UCnz-ZXXER4jOvuED5trXfEA	UUnz-ZXXER4jOvuED5trXfEA

In [18]:
```
playlist_id=[]
for i in Channels["Playlist_id"]:
    playlist_id.append(i)
playlist_id
```

Out[18]:
```
['UUYO_jab_esuFRV4b17AJtAw',
 'UU7cs8q-gJRlGwj4A8OmCmXg',
 'UUCWi3hpnq_Pe03nGxuS7isg',
 'UU8uU_wruBMHeeRma49dtZKA',
 'UUNU_lfiiWBdtULKOw6X0Dig',
 'UUh9nVJoWXmFb7sLApWGcLPQ',
 'UU8butISFwT-Wl7EV0hUK0BQ',
 'UUnz-ZXXER4jOvuED5trXfEA']
```

In [19]:
```
playlist_id=['UUYO_jab_esuFRV4b17AJtAw',
 'UU7cs8q-gJRlGwj4A8OmCmXg',
 'UUCWi3hpnq_Pe03nGxuS7isg',
 'UU8uU_wruBMHeeRma49dtZKA',
 'UUNU_lfiiWBdtULKOw6X0Dig',
 'UUh9nVJoWXmFb7sLApWGcLPQ',
 'UU8butISFwT-Wl7EV0hUK0BQ',
 'UUnz-ZXXER4jOvuED5trXfEA']
```

In [ ]:
```
type(playlist_id[1])
```

Function to get video ids

In [20]:
```
def get_video_id(youtube,playlist_id):

    ids=[]

    request = youtube.playlistItems().list(
    part="contentDetails,snippet",
    playlistId=playlist_id,
    maxResults=50
    )


    response=request.execute()



    for i in range(len(response["items"])):

        ids.append(response["items"][i]["contentDetails"]["videoId"])

    next_page_token=response.get('nextPageToken')

    while next_page_token is not None:
        request = youtube.playlistItems().list(
            part="contentDetails,snippet",
            playlistId=playlist_id,
            maxResults=50,
            pageToken=next_page_token)
        response=request.execute()

        for i in range(len(response["items"])):

            ids.append(response["items"][i]["contentDetails"]["videoId"])

            next_page_token=response.get('nextPageToken')

    return (ids)
```

In [23]:
```
video_ids=[]
for i in playlist_id:
    data=get_video_id(youtube,playlist_id=i)
    video_ids.extend(data)
print(video_ids)
```

['KuXjwB4LzSA', '851U557j6HE', 'cDofhN-RJqg', 'VYQVlVoWoPY', 'hZuYICAEN9Y', 'bOXCLR3Wric', 'fRed0Xmc2Wg', 'v68z
YyaEmEA', 'ltLUadnCyi0', 'F3Qixy-r_rQ', 'LqbZpur38nw', '-RdOwhmqP5s', 'ojjzXyQCzso', 'e50Bj7jn9IQ', 'O85OWBJ2ay
o', 'lG4VkPoG3ko', 'b3NxrZOu_CE', 'X8jsijhllIA', 'mH0oCDa74tE', 'wTJI_WuZSwE', 'QvuQH4_05LI', 'pq9LcwC7CoY', 'D
__UaR5MQao', 'elQVZLLiod4', '4PDoT7jtxmw', 'cEvgcoyZvB4', 'IAEASE5GjdI', 'ZxYOEwM6Wbk', '5PcpBw5Hbwo', 'yBw67Fb
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In [24]:
```
len(video_ids)
```

Out[24]:
```
5243
```

Function to get video detials

In [26]:
```
def get_video_details(youtube,video_ids):

    all_video_stats=[]

    for i in range(0,len(video_ids),50):
        request = youtube.videos().list(
                  part="snippet,contentDetails,statistics",
                  id=','.join(video_ids[i:i+50])
        )

        response = request.execute()

        for item in response['items']:
            video_stats={'snippet':['channelTitle','title','publishedAt'],
                         'statistics':['viewCount','likeCount','commentCount']}

            video_info={}
            video_info['video_id']=item['id']

            for k in video_stats.keys():
                for v in video_stats[k]:
                    try:
                        video_info[v]=item[k][v]
                    except:
                        video_info[v] = None

            all_video_stats.append(video_info)



    return (all_video_stats)
```

In [27]:
```
video_details=get_video_details(youtube,video_ids)
```

In [28]:
```
video_details
```

Out[28]:

```
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  'publishedAt': '2020-03-27T19:44:27Z',
  'viewCount': '74',
  'likeCount': '2',
  'commentCount': '1'},
 {'video_id': 'xYSqKaYTvxQ',
  'channelTitle': 'CampusX',
  'title': 'Linked Lists in Python | Part 3 | Insertion from head in a Singly Linked List | Placement Preparati
o',
  'publishedAt': '2020-03-27T19:32:14Z',
  'viewCount': '95',
  'likeCount': '2',
  'commentCount': '0'},
 {'video_id': '7OQ_PSYIN9g',
  'channelTitle': 'CampusX',
  'title': 'Linked Lists in Python | Part 2 | Implementing a Single Node | Placement Preparation',
  'publishedAt': '2020-03-27T19:18:55Z',
  'viewCount': '101',
  'likeCount': '3',
  'commentCount': '0'},
 {'video_id': 'JBG1OBZLtIg',
  'channelTitle': 'CampusX',
  'title': "Leftmost Character that doesn't Repeat",
  'publishedAt': '2020-03-27T01:10:55Z',
  'viewCount': '18',
  'likeCount': '0',
  'commentCount': '0'},
 {'video_id': 'LZhzsvzW2UI',
  'channelTitle': 'CampusX',
  'title': 'Leftmost Character that Repeats',
  'publishedAt': '2020-03-27T01:10:26Z',
  'viewCount': '255',
  'likeCount': '3',
  'commentCount': '0'},
 {'video_id': 'Mpqpp_19usw',
  'channelTitle': 'CampusX',
  'title': 'Anagrams',
  'publishedAt': '2020-03-27T01:06:50Z',
  'viewCount': '53',
  'likeCount': '0',
  'commentCount': '0'},
 {'video_id': 'x_OKqiY_Vc8',
  'channelTitle': 'CampusX',
  'title': 'Matplotlib',
  'publishedAt': '2020-03-26T12:13:21Z',
  'viewCount': '3580',
  'likeCount': '107',
  'commentCount': '3'},
 {'video_id': '99gCewBIbDc',
  'channelTitle': 'CampusX',
  'title': 'Data Visualization using Seaborn | Distplots',
  'publishedAt': '2020-03-26T06:39:59Z',
  'viewCount': '1342',
  'likeCount': '61',
  'commentCount': '3'},
 {'video_id': 'I01YLvoUxUQ',
  'channelTitle': 'CampusX',
  'title': 'Data Visualization using Seaborn | Pairplots',
  'publishedAt': '2020-03-26T06:22:03Z',
  'viewCount': '978',
  'likeCount': '40',
  'commentCount': '2'},
 {'video_id': 'yV4pSrX_2h4',
  'channelTitle': 'CampusX',
  'title': 'Data Visualization using Seaborn | Jointplots',
  'publishedAt': '2020-03-26T06:21:42Z',
  'viewCount': '1112',
  'likeCount': '45',
  'commentCount': '3'},
 {'video_id': 'NChlGQGViSQ',
  'channelTitle': 'CampusX',
  'title': 'Data Visualization using Seaborn | Clustermaps',
  'publishedAt': '2020-03-24T14:42:35Z',
  'viewCount': '1130',
  'likeCount': '48',
  'commentCount': '1'},
 {'video_id': 'eAGjpFBJUCw',
  'channelTitle': 'CampusX',
  'title': 'Data Visualization using Seaborn | Heatmaps',
  'publishedAt': '2020-03-24T14:40:42Z',
  'viewCount': '1496',
  'likeCount': '59',
  'commentCount': '1'},
 {'video_id': 'syogI8VQ8v0',
  'channelTitle': 'CampusX',
  'title': 'Data Visualization using Seaborn | Barplots and Countplots',
```

```
 'publishedAt': '2020-03-24T14:38:48Z',
 'viewCount': '1494',
 'likeCount': '53',
 'commentCount': '3'},
{'video_id': 'nqHKPskPPyk',
 'channelTitle': 'CampusX',
 'title': 'Data Visualization using Seaborn | Violinplots',
 'publishedAt': '2020-03-23T14:34:00Z',
 'viewCount': '1362',
 'likeCount': '48',
 'commentCount': '1'},
{'video_id': 'ropoXtbhUhg',
 'channelTitle': 'CampusX',
 'title': 'Data Visualization using Seaborn | Boxplot',
 'publishedAt': '2020-03-23T14:33:19Z',
 'viewCount': '1680',
 'likeCount': '73',
 'commentCount': '4'},
{'video_id': '90i5cfSwUc0',
 'channelTitle': 'CampusX',
 'title': 'Data Visualization using Seaborn | Categorical Scatterplots | Stripplots and Swarmplots',
 'publishedAt': '2020-03-23T14:31:47Z',
 'viewCount': '2464',
 'likeCount': '73',
 'commentCount': '6'},
{'video_id': 'K_8u_AJ75RI',
 'channelTitle': 'CampusX',
 'title': 'Data Visualization using Seaborn | Scatter Plots',
 'publishedAt': '2020-03-22T18:31:39Z',
 'viewCount': '5596',
 'likeCount': '124',
 'commentCount': '4'},
{'video_id': 'rMjhNx5N-EE',
 'channelTitle': 'CampusX',
 'title': 'Central Limit Theorem',
 'publishedAt': '2020-03-18T20:47:19Z',
 'viewCount': '113',
 'likeCount': '12',
 'commentCount': '2'},
{'video_id': 'pwqHvjAymoY',
 'channelTitle': 'CampusX',
 'title': 'Central Limit Theorem - Proof',
 'publishedAt': '2020-03-18T20:11:18Z',
 'viewCount': '1642',
 'likeCount': '63',
 'commentCount': '10'},
...]
```

In [29]:
```
Video_info=pd.DataFrame(video_details)
```

In [30]:
```
Video_info
```

Out[30]:

	video_id	channelTitle	title	publishedAt	viewCount	likeCount	commentCount
0	KuXjwB4LzSA	3Blue1Brown	But what is a convolution?	2022-11-18T16:00:39Z	1099620	56511	1989
1	851U557j6HE	3Blue1Brown	Researchers thought this was a bug (Borwein in...	2022-11-04T15:54:19Z	1314189	48906	1607
2	cDofhN-RJqg	3Blue1Brown	We ran a contest for math explainers, here are...	2022-10-01T19:23:52Z	643905	34600	1096
3	VYQVlVoWoPY	3Blue1Brown	How to lie using visual proofs	2022-07-03T15:03:56Z	1789064	77707	3334
4	hZuYICAEN9Y	3Blue1Brown	Summer of Math Exposition 2 Invitation	2022-06-09T05:18:39Z	250072	12174	534
...	...	...	...	...	...	...	...
5238	1aybOgni7II	techTFQ	How to install PostgreSQL on Mac OS | Install ...	2020-11-16T02:28:09Z	40743	426	78
5239	j09EQ-xlh88	techTFQ	Learn What is Database | Types of Database | DBMS	2020-08-30T00:38:24Z	113599	2168	96
5240	7nzTDrio7vY	techTFQ	Do you need a Smartwatch	2020-07-12T15:32:36Z	11000	181	46
5241	J-uCLHTIWZ4	techTFQ	MacBook Pro 13 2020 One Week Later Review	2020-06-29T15:03:19Z	1264	70	20
5242	_BMPh5M4BIY	techTFQ	MacBook Pro 13 2020 Unboxing	2020-06-22T14:49:50Z	2133	85	29

5243 rows × 7 columns

EDA

In [31]:
```
Channels
```

Out[31]:

	Channel_name	Channel_launch	Subscribers	Total_videos	Total_views	Channel_id	Playlist_id
0	3Blue1Brown	2015-03-03	4880000	127	315125116	UCYO_jab_esuFRV4b17AJtAw	UUYO_jab_esuFRV4b17AJtAw
1	Alex The Analyst	2020-01-08	334000	183	13141597	UC7cs8q-gJRlGwj4A8OmCmXg	UU7cs8q-gJRlGwj4A8OmCmXg
2	CampusX	2019-04-17	57000	979	4880337	UCCWi3hpnq_Pe03nGxuS7isg	UUCWi3hpnq_Pe03nGxuS7isg
3	Chandoo	2009-05-02	372000	398	27410148	UC8uU_wruBMHeeRma49dtZKA	UU8uU_wruBMHeeRma49dtZKA
4	Krish Naik	2012-02-11	699000	1593	67365717	UCNU_lfiiWBdtULKOw6X0Dig	UUNU_lfiiWBdtULKOw6X0Dig
5	codebasics	2015-11-07	711000	586	48167085	UCh9nVJoWXmFb7sLApWGcLPQ	UUh9nVJoWXmFb7sLApWGcLPQ
6	freeCodeCamp.org	2014-12-16	6930000	1383	473668469	UC8butISFwT-Wl7EV0hUK0BQ	UU8butISFwT-Wl7EV0hUK0BQ
7	techTFQ	2020-06-13	149000	82	7045319	UCnz-ZXXER4jOvuED5trXfEA	UUnz-ZXXER4jOvuED5trXfEA

In [32]:
```
Video_info.to_csv('Video_details.csv',index=False)
```

In [33]:
```
Channels.to_csv("Channel_details.csv",index=False)
```

In [34]:
```
Channels.head(3)
```

Out[34]:

	Channel_name	Channel_launch	Subscribers	Total_videos	Total_views	Channel_id	Playlist_id
0	3Blue1Brown	2015-03-03	4880000	127	315125116	UCYO_jab_esuFRV4b17AJtAw	UUYO_jab_esuFRV4b17AJtAw
1	Alex The Analyst	2020-01-08	334000	183	13141597	UC7cs8q-gJRlGwj4A8OmCmXg	UU7cs8q-gJRlGwj4A8OmCmXg
2	CampusX	2019-04-17	57000	979	4880337	UCCWi3hpnq_Pe03nGxuS7isg	UUCWi3hpnq_Pe03nGxuS7isg

In [35]:
```
Channels.isnull().sum()
```

Out[35]:
```
Channel_name      0
Channel_launch    0
Subscribers       0
Total_videos      0
Total_views       0
Channel_id        0
Playlist_id       0
dtype: int64
```

In [36]:
```
Channels.dtypes
```

Out[36]:
```
Channel_name      object
Channel_launch    object
Subscribers        int64
Total_videos       int64
Total_views        int64
Channel_id        object
Playlist_id       object
dtype: object
```

In [41]:
```
Video_info
```

Out[41]:

	video_id	channelTitle	title	publishedAt	viewCount	likeCount	commentCount
0	KuXjwB4LzSA	3Blue1Brown	But what is a convolution?	2022-11-18T16:00:39Z	1099620	56511	1989
1	851U557j6HE	3Blue1Brown	Researchers thought this was a bug (Borwein in...	2022-11-04T15:54:19Z	1314189	48906	1607
2	cDofhN-RJqg	3Blue1Brown	We ran a contest for math explainers, here are...	2022-10-01T19:23:52Z	643905	34600	1096
3	VYQVlVoWoPY	3Blue1Brown	How to lie using visual proofs	2022-07-03T15:03:56Z	1789064	77707	3334
4	hZuYICAEN9Y	3Blue1Brown	Summer of Math Exposition 2 Invitation	2022-06-09T05:18:39Z	250072	12174	534
...	...	...	...	...	...	...	...
5238	1aybOgni7II	techTFQ	How to install PostgreSQL on Mac OS | Install ...	2020-11-16T02:28:09Z	40743	426	78
5239	j09EQ-xlh88	techTFQ	Learn What is Database | Types of Database | DBMS	2020-08-30T00:38:24Z	113599	2168	96
5240	7nzTDrio7vY	techTFQ	Do you need a Smartwatch	2020-07-12T15:32:36Z	11000	181	46
5241	J-uCLHTIWZ4	techTFQ	MacBook Pro 13 2020 One Week Later Review	2020-06-29T15:03:19Z	1264	70	20
5242	_BMPh5M4BIY	techTFQ	MacBook Pro 13 2020 Unboxing	2020-06-22T14:49:50Z	2133	85	29

5243 rows × 7 columns

In [42]:
```
Video_info.dtypes
```

In [42]:
```
Video_info.dtypes
```

Out[42]:
```
video_id        object
channelTitle    object
title           object
publishedAt     object
viewCount       object
likeCount       object
commentCount    object
dtype: object
```

In [43]:
```
Video_info["likeCount"]= pd.to_numeric(Video_info["likeCount"])
Video_info["commentCount"]= pd.to_numeric(Video_info["commentCount"])
Video_info["viewCount"]= pd.to_numeric(Video_info["viewCount"])
Video_info["publishedAt"]= pd.to_datetime(Video_info["publishedAt"])
```

In [44]:
```
Video_info.dtypes
```

Out[44]:
```
video_id                     object
channelTitle                 object
title                        object
publishedAt     datetime64[ns, UTC]
viewCount                   float64
likeCount                   float64
commentCount                float64
dtype: object
```

In [45]:
```
Video_info['Like_ratio'] = (Video_info["likeCount"]/Video_info["viewCount"])*1000
```

In [47]:
```
Video_info
```

Out[47]:

	video_id	channelTitle	title	publishedAt	viewCount	likeCount	commentCount	Like_ratio
0	KuXjwB4LzSA	3Blue1Brown	But what is a convolution?	2022-11-18 16:00:39+00:00	1099620.0	56511.0	1989.0	51.391390
1	851U557j6HE	3Blue1Brown	Researchers thought this was a bug (Borwein in...	2022-11-04 15:54:19+00:00	1314189.0	48906.0	1607.0	37.213825
2	cDofhN-RJqg	3Blue1Brown	We ran a contest for math explainers, here are...	2022-10-01 19:23:52+00:00	643905.0	34600.0	1096.0	53.734635
3	VYQVlVoWoPY	3Blue1Brown	How to lie using visual proofs	2022-07-03 15:03:56+00:00	1789064.0	77707.0	3334.0	43.434444
4	hZuYICAEN9Y	3Blue1Brown	Summer of Math Exposition 2 Invitation	2022-06-09 05:18:39+00:00	250072.0	12174.0	534.0	48.681980
...	...	...	...	...	...	...	...	...
5238	1aybOgni7II	techTFQ	How to install PostgreSQL on Mac OS | Install ...	2020-11-16 02:28:09+00:00	40743.0	426.0	78.0	10.455784
5239	j09EQ-xlh88	techTFQ	Learn What is Database | Types of Database | DBMS	2020-08-30 00:38:24+00:00	113599.0	2168.0	96.0	19.084675
5240	7nzTDrio7vY	techTFQ	Do you need a Smartwatch	2020-07-12 15:32:36+00:00	11000.0	181.0	46.0	16.454545
5241	J-uCLHTIWZ4	techTFQ	MacBook Pro 13 2020 One Week Later Review	2020-06-29 15:03:19+00:00	1264.0	70.0	20.0	55.379747
5242	_BMPh5M4BIY	techTFQ	MacBook Pro 13 2020 Unboxing	2020-06-22 14:49:50+00:00	2133.0	85.0	29.0	39.849977

5243 rows × 8 columns

In [48]:
```
Video_info.isnull().sum()
```

Out[48]:
```
video_id         0
channelTitle     0
title            0
publishedAt      0
viewCount        2
likeCount       23
commentCount     2
Like_ratio      27
dtype: int64
```

In [ ]: