```
In [1]:  import numpy as np
         import pandas as pd
         import seaborn as sns
         from googleapiclient.discovery import build
```

```
In [2]:  api_key = 'AIzaSyC_1XJNW9V_3C-Y3PcDrEk1m4zEG6RESUs'
         channel_ids = ['UCKIebaFbubF2L_ol3ujxoSA',
                        'UCEk1jBxAl6fe-_G37G7huQA',
                        'UCRI00CwLZdLRCWg5BdDOsNw',
                        'UCtRa82x1BwQdnpHf0Es4gcQ',
                        'UCa90xqK2odw1KV5wHU9WRhg',
                        'UC2D2CMWXMOVWx7giW1n3LIg',
                        'UCQ4FNww3XoNgqIlkBqEAVCg',
                        'UCeP5_FL11TnvXuvrFvALJyA',
                        'UCt1fxPc6KaOeMxdhtUcEEEA',
                        'UCJihyK0A38SZ6SdJirEdIOw'
                        ]

         youtube = build('youtube', 'v3', developerKey = api_key)
```

Function to scrap channel statistics

```
In [3]:  def get_channel_stats (youtube, channel_ids):
             channels_data = []
             request = youtube.channels().list(
                        part = 'snippet,contentDetails,statistics',
                        id = ','.join(channel_ids))

             response = request.execute()

             for i in range(len(response['items'])):
                 data = dict(Channel_name = response['items'][i]['snippet']['title'],
                             Subscriber_count = response['items'][i]['statistics']['subscriberCou
                             Total_views = response['items'][i]['statistics']['viewCount'],
                             Total_videos = response['items'][i]['statistics']['videoCount'],
                             playlist_id = response['items'][i]['contentDetails']['relatedPlaylis

                 channels_data.append(data)

             return channels_data
```

```
In [4]:  channel_stats = get_channel_stats(youtube, channel_ids)
```

```
In [5]:  channel_data = pd.DataFrame(channel_stats)
         channel_data
```

Out[5]:

	Channel_name	Subscriber_count	Total_views	Total_videos	playlist_id
0	Gate Smashers	1640000	366544435	1443	UUJihyK0A38SZ6SdJirEdIOw
1	Bhajan Marg	4880000	1020078914	2618	UUEk1jBxAl6fe-_G37G7huQA
2	Hell's Kitchen	1870000	1365579892	1241	UUt1fxPc6KaOeMxdhtUcEEEA
3	Saurav Sinha	928000	55848085	228	UUKIebaFbubF2L_ol3ujxoSA
4	The Canadian Lad	1750000	429579312	258	UURI00CwLZdLRCWg5BdDOsNw
5	Iman Gadzhi	3730000	129931440	449	UUQ4FNww3XoNgqIlkBqEAVCg
6	The Office	3240000	2844964001	1236	UUa90xqK2odw1KV5wHU9WRhg

7	Gaurav Kapoor	1280000	282640693	127	UUeP5_FL11TnvXuvrFvALJyA
8	Andrew Huberman	4290000	194874286	179	UU2D2CMWXMOVWx7giW1n3Llg
9	Brooklyn Nine-Nine	870000	1040624981	1898	UUtRa82x1BwQdnpHf0Es4gcQ

In [6]:
```python
channel_data['Subscriber_count'] = pd.to_numeric(channel_data['Subscriber_count'])
channel_data['Total_views'] = pd.to_numeric(channel_data['Total_views'])
channel_data['Total_videos'] = pd.to_numeric(channel_data['Total_videos'])
```

In [7]:
```python
channel_data.dtypes
```

Out[7]:
```
Channel_name        object
Subscriber_count     int64
Total_views          int64
Total_videos         int64
playlist_id         object
dtype: object
```

In [8]:
```python
sns.set(rc={'figure.figsize':(15,12)})
palette = sns.color_palette("bright", 6)
ax = sns.barplot(x='Channel_name', y='Subscriber_count', data=channel_data,
                 order=channel_data.sort_values('Subscriber_count',ascending = False).Cha
                 palette = palette)
ylabels = ['{:,.0f}'.format(y) + 'M' for y in ax.get_yticks()/1000000]
ax.set_yticklabels(ylabels)
```

```
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn\_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn\_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\AppData\Local\Temp\ipykernel_9788\466190320.py:7: UserWarning: FixedFormat
ter should only be used together with FixedLocator
  ax.set_yticklabels(ylabels)
```
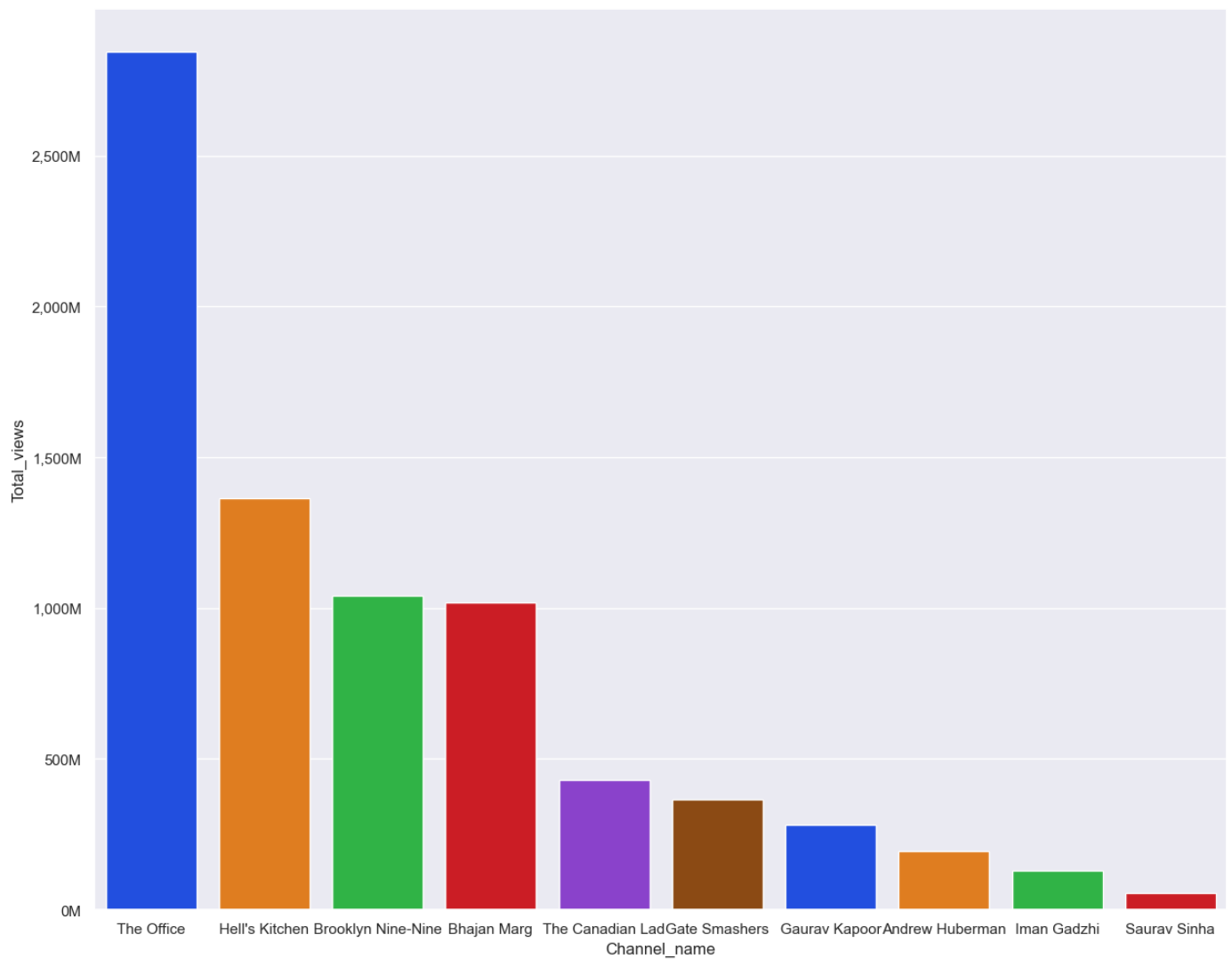
Out[8]:
```
[Text(0, 0.0, '0M'),
 Text(0, 1000000.0, '1M'),
 Text(0, 2000000.0, '2M'),
 Text(0, 3000000.0, '3M'),
 Text(0, 4000000.0, '4M'),
 Text(0, 5000000.0, '5M'),
 Text(0, 6000000.0, '6M')]
```
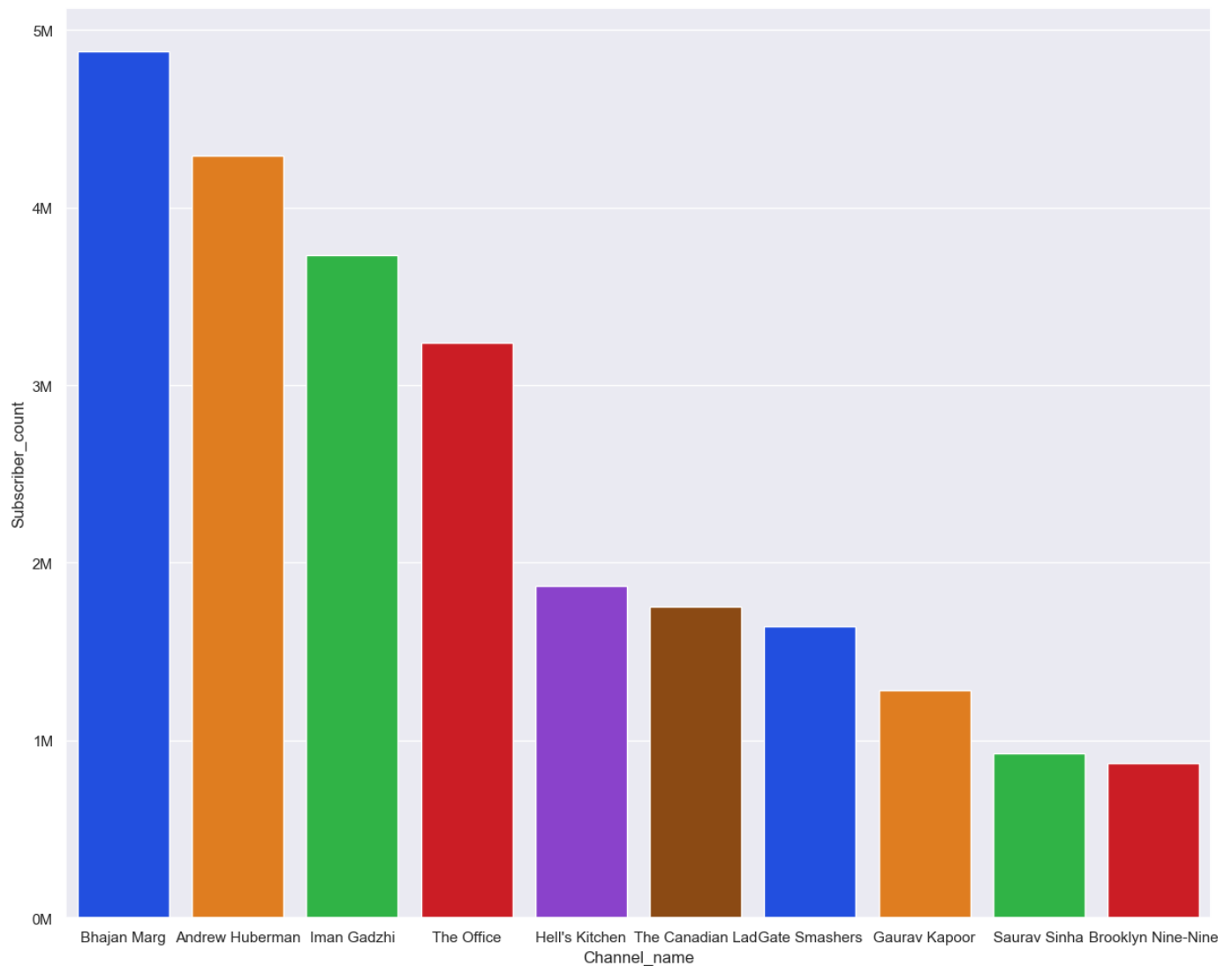
```
In [9]:  ax1 = sns.barplot(x='Channel_name', y='Total_views', data=channel_data,
                    order=channel_data.sort_values('Total_views',ascending = False).Channel_
                    palette = palette)
         ylabels = ['{:,.0f}'.format(y) + 'M' for y in ax1.get_yticks()/1000000]
         ax1.set_yticklabels(ylabels)
```
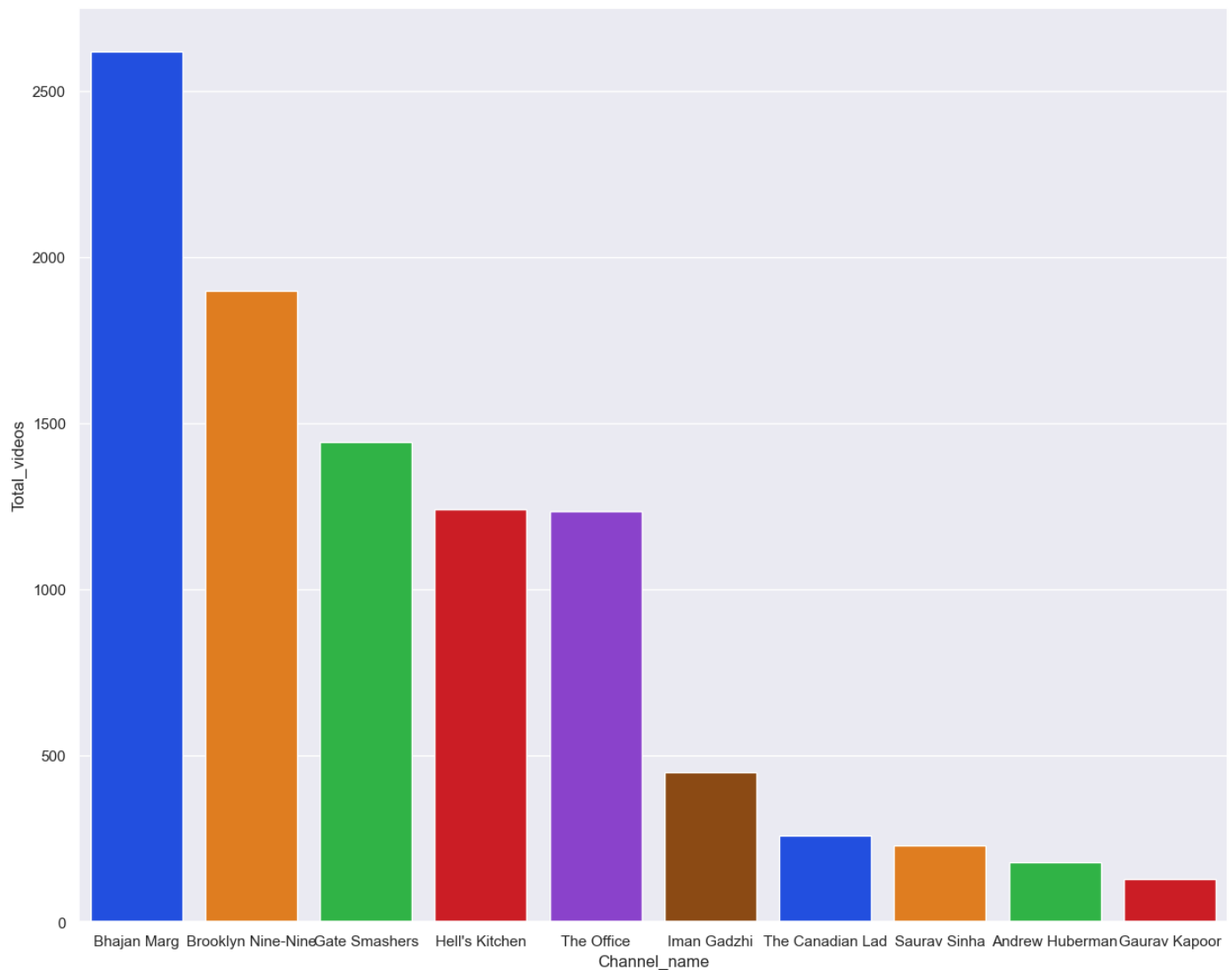
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\AppData\Local\Temp\ipykernel_9788\1643075010.py:5: UserWarning: FixedForma
tter should only be used together with FixedLocator
  ax1.set_yticklabels(ylabels)

Out[9]: [Text(0, 0.0, '0M'),
          Text(0, 500000000.0, '500M'),
          Text(0, 1000000000.0, '1,000M'),
          Text(0, 1500000000.0, '1,500M'),
          Text(0, 2000000000.0, '2,000M'),
          Text(0, 2500000000.0, '2,500M'),
          Text(0, 3000000000.0, '3,000M')]
```

```
ax2 = sns.barplot(x='Channel_name', y='Total_videos', data=channel_data,
                  order=channel_data.sort_values('Total_videos',ascending = False).Channel
                  palette = palette)
```

```
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn\_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn\_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
```

Function to get the video ids

```
In [11]: channel_data
```

Out[11]:

	Channel_name	Subscriber_count	Total_views	Total_videos	playlist_id
0	Gate Smashers	1640000	366544435	1443	UUJihyK0A38SZ6SdJirEdIOw
1	Bhajan Marg	4880000	1020078914	2618	UUEk1jBxAl6fe-_G37G7huQA
2	Hell's Kitchen	1870000	1365579892	1241	UUt1fxPc6KaOeMxdhtUcEEEA
3	Saurav Sinha	928000	55848085	228	UUKIebaFbubF2L_oI3ujxoSA
4	The Canadian Lad	1750000	429579312	258	UURl00CwLZdLRCWg5BdDOsNw
5	Iman Gadzhi	3730000	129931440	449	UUQ4FNww3XoNgqIlkBqEAVCg
6	The Office	3240000	2844964001	1236	UUa90xqK2odw1KV5wHU9WRhg
7	Gaurav Kapoor	1280000	282640693	127	UUeP5_FL11TnvXuvrFvALJyA
8	Andrew Huberman	4290000	194874286	179	UU2D2CMWXMOVWx7giW1n3Llg
9	Brooklyn Nine-Nine	870000	1040624981	1898	UUtRa82x1BwQdnpHf0Es4gcQ

```
In [12]: playlist_id = channel_data.loc[channel_data['Channel_name']=='Andrew Huberman', 'playlis
```

```
In [13]: playlist_id
```

```
Out[13]:   'UU2D2CMWXMOVWx7giW1n3LIg'

In [22]:  def get_video_ids( youtube, playlist_id ):
              request = youtube.playlistItems().list(
                          part = 'contentDetails',
                          playlistId = playlist_id,
                          maxResults = 50
                      )

              response = request.execute()
              video_ids = []

              for i in range(len(response['items'])):
                  video_ids.append(response['items'][i]['contentDetails']['videoId'])

              next_page_token = response.get('nextPageToken')
              more_pages = True

              while more_pages:
                  if next_page_token is None:
                      more_pages = False
                  else:
                      request = youtube.playlistItems().list(
                                  part = 'contentDetails',
                                  playlistId = playlist_id,
                                  maxResults = 50,
                                  pageToken = next_page_token
                              )

                      response = request.execute()

                      for i in range(len(response['items'])):
                          video_ids.append(response['items'][i]['contentDetails']['videoId'])

                      next_page_token = response.get('nextPageToken')

              return video_ids

In [23]:  video_ids = get_video_ids(youtube, playlist_id)

In [24]:  video_ids

Out[24]:  ['EhlIkzJwPlk',
           'pkJi9Raxikg',
           'qJ3uV7coZbA',
           'CJIXbibQ0jI',
           '1Wo6SqLNmLk',
           'FeRgqJVALMQ',
           'cwakOgHIT0E',
           'q8CHXefn7B4',
           '7Ey_vTTgJGc',
           'yOJvm_ri_hk',
           'qNzl12g0Dd8',
           'eMqWH3LYiII',
           'gveDhZW-rUk',
           'qPKd99Pa2iU',
           'z8c6EyMNd0A',
           'tLRCS48Ens4',
           'yixIc1Ai6jM',
           'eJU6Df_ffAE',
           'CrtR12PBKb0',
           '29n0WG317tM',
           'F54qXuTpgfM',
           'Rxmv7rT9leo',
```

    'VOfwbcveP84',
    'HoH93judXmE',
    'X8Hw8zeCDTA',
    'aQDOU3hPci0',
    'RI112zW8GDw',
    'LYYyQcAJZfk',
    '_ltcLEM-5HU',
    'FE0lTEUa7EY',
    'doupx8SAs5Y',
    'slUCmZJDXrk',
    'S8jWFcDGz4Y',
    'dicP_kA-RA0',
    'sxgCC4H1dl8',
    'fcxjwA4C4Cw',
    'x3MgDtZovks',
    'eIxVfln02Ss',
    'cS7cNaBrkxo',
    'uWV9a3zEaL4',
    '0RYyQRQFgFk',
    '3ZGItIAUQmI',
    '6ZrlsVx85ek',
    'ulHrUVV3Kq4',
    'K-TW2Chpz4k',
    'cp9GXl9Qk_s',
    'ufsIA5NARIo',
    '7R3-3HR6-u4',
    'at37Y8rKDlA',
    'CDUetQMKM6g',
    'S8nPJU9xkNw',
    'q37ARYnRDGc',
    'x4m_PdFbu-s',
    'juD99_sPWGU',
    'BMTt8gSl13s',
    'UIy-WQCZd4M',
    'CGjdgy0cwGk',
    'oNkDA2F7CjM',
    'GVRDGQhoEYQ',
    'CyDLbrZK75U',
    'O1YRwWmue4Y',
    'zEYE-vcVKy8',
    'ycOBZZeVeAc',
    'uak_dXHh6s4',
    'tLS6t3FVOTI',
    '-wIt_WsJGfw',
    '__RAXBLt1iM',
    'KPlJcD-o-4Q',
    'uwWOc_RqTBA',
    'O640yAgq5f8',
    'vZ4kOr38JhY',
    'iw97uvIge7c',
    '6I5I56uVvLw',
    'xjEFo3a1AnI',
    'LTGGyQS1fZE',
    'TO0WUTq5zYI',
    'K4Ze-Sp6aUE',
    'lsODSDmY4CY',
    'wTBSGgbIvsY',
    'Z7MU6zrAXsM',
    'q1Ss8sTbFBY',
    'X4QE6t-MkYE',
    'gXvuJu1kt48',
    'Nr5xb-QCBGA',
    'uXs-zPc63kM',
    'uxZFl4BDOGk',
    'yb5zpo5WDG4',
    '3_auLYOilb8',

```
'LVxL_p_kToc',
'DkS1pkKpILY',
'2Ds1m5gflCI',
'DTCmprPCDqc',
'h2aWYjSA1Jc',
'7YGZZcXqKxE',
'm_OazsImOiI',
'UChhXiFPRgg',
'T65RDBiB5Hs',
'UNCwdFxPtE8',
'OadokY8fcAA',
'a9yFKPmPZ90',
'tkH2-_jMCSk',
'IOl28gj_RXw',
'dzOvi0Aa2EA',
'099hgtRoUZw',
'szqPAPKE5tQ',
'RBK5KLA5Jjg',
'XcvhERcZpWw',
'EQ3GjpGq5Y8',
'UF0nqolsNZc',
'ncSoor2Iw8k',
'pq6WHJzOkno',
'IAnhFUUCq6c',
'VAEzZeaV5zM',
'azb3Ih68awQ',
'ouCWNRvPk20',
'15R2pMqU2ok',
'PctD-ki8dCc',
'gMRph_BvHB4',
'BwyZIWeBpRw',
'Ze2pc6NwsHQ',
'dFR_wFN23ZY',
't1F7EEGPQwo',
'GLgKkG44MGo',
'Wcs2PFz5q6g',
'n9IxomBusuw',
'RgAcOqVRfYA',
'oC3fhUjg30E',
'31wjVhCcI5Y',
'HXzTbCEqCJc',
'KVjfFN89qvQ',
'8IWDAqodDas',
'iMvtHqLmEkI',
'poOf8b2WE2g',
'oUu3f0ETMJQ',
'E7W4OQfJWdw',
'9tRohh0gErM',
'77CdVSpnUX4',
'QmOF0crdyRU',
'GzvzWO0NU50',
'hFL6qRIJZ_Y',
'2XGREPnlI8U',
'DtmwtjOoSYU',
'Xu1FMCxoEFc',
'p3JLaF_4Tz8',
'xmhsWAqP_0Y',
'gbQFSMayJxk',
'rW9QKc-iFoY',
'VRvn3Oj5r3E',
'aXvDEmo6uS4',
'JVRyzYB9JSY',
'w9MXqXBZy9U',
'Mwz8JprPeMc',
'ObtW353d5i0',
'VQLU7gpk_X8',
```

```
    'XLr2RKoD-oY',
    'GqPGXG5TlZw',
    'xJ0IBzCjEPk',
    'xaE9XyMMAHY',
    'JPX8g8ibKFc',
    'x7qbJeRxWGw',
    '17O5mgXZ9ZU',
    'qJXKhu5UZwk',
    'rBdhqBGqiMc',
    'J7SrAEacyf8',
    'hcuMLQVAgEg',
    'PZ-GvIOhcf8',
    'vA50EK70whE',
    'XfURDjegrAw',
    'ntfcfJ28eiU',
    'mcPSRWUYCv0',
    'uuP-1ioh4LY',
    'hx3U64IXFOY',
    'LG53Vxum0as',
    'FFwA0QFmpQ4',
    'NAATB55oxeQ',
    'nwSkFq4tyC0',
    'nm1TxQj9IsQ',
    'H-XfCl-HpRM',
    '4b6bwcWK6GE']
```

Function to get the video details

```python
In [35]:  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,statistics',
                              id=','.join(video_ids[i:i+50]))

                  response = request.execute()

                  for video in response['items']:
                      video_stats = dict(Title = video['snippet']['title'],
                                      Published_date = video['snippet']['publishedAt'],
                                      Views = video['statistics']['viewCount'],
                                      Likes = video['statistics']['likeCount'],
                                      Favorites = video['statistics']['favoriteCount'],
                                      Comments = video['statistics']['commentCount']
                                          )
                      all_video_stats.append(video_stats)

              return all_video_stats
```

```python
In [36]:  video_details = get_video_details(youtube, video_ids)
```

```python
In [37]:  video_details
```

```
Out[37]:  [{'Title': 'Dr. Natalie Crawford: Female Hormone Health, Fertility & Vitality',
            'Published_date': '2023-11-13T13:00:16Z',
            'Views': '42010',
            'Likes': '1575',
            'Favorites': '0',
            'Comments': '165'},
           {'Title': 'Dr. Michael Eisenberg: Improving Male Sexual Health, Function & Fertility',
            'Published_date': '2023-11-06T13:00:41Z',
            'Views': '209520',
```

     'Likes': '5160',
     'Favorites': '0',
     'Comments': '649'},
  {'Title': 'AMA #12: Thoughts on Longevity Supplements (Resveratrol, NR, NMN, Etc.) & Ho
w to Improve Memory',
    'Published_date': '2023-10-31T18:00:33Z',
    'Views': '120185',
    'Likes': '2441',
    'Favorites': '0',
    'Comments': '250'},
  {'Title': 'Mental Health Toolkit: Tools to Bolster Your Mood & Mental Health',
    'Published_date': '2023-10-30T12:00:11Z',
    'Views': '236796',
    'Likes': '6990',
    'Favorites': '0',
    'Comments': '599'},
  {'Title': 'Mark Zuckerberg & Dr. Priscilla Chan: Curing All Human Diseases & the Future
of Health & Technology',
    'Published_date': '2023-10-23T12:00:02Z',
    'Views': '342884',
    'Likes': '9507',
    'Favorites': '0',
    'Comments': '3239'},
  {'Title': 'Dr. Lisa Feldman Barrett: How to Understand Emotions | Huberman Lab Podcas
t',
    'Published_date': '2023-10-16T12:00:20Z',
    'Views': '584983',
    'Likes': '10629',
    'Favorites': '0',
    'Comments': '1372'},
  {'Title': 'How to Increase Your Willpower & Tenacity | Huberman Lab Podcast',
    'Published_date': '2023-10-09T12:00:26Z',
    'Views': '408541',
    'Likes': '11013',
    'Favorites': '0',
    'Comments': '1039'},
  {'Title': 'Chris Voss: How to Succeed at Hard Conversations | Huberman Lab Podcast',
    'Published_date': '2023-10-02T12:00:42Z',
    'Views': '1414571',
    'Likes': '16207',
    'Favorites': '0',
    'Comments': '884'},
  {'Title': 'AMA #11: Improve Task Switching & Productivity and Reduce Brain Fog',
    'Published_date': '2023-09-29T12:00:04Z',
    'Views': '105082',
    'Likes': '2958',
    'Favorites': '0',
    'Comments': '160'},
  {'Title': 'Dr. Paul Conti: Tools and Protocols for Mental Health | Huberman Lab Guest S
eries',
    'Published_date': '2023-09-27T12:00:51Z',
    'Views': '224359',
    'Likes': '4726',
    'Favorites': '0',
    'Comments': '488'},
  {'Title': 'U.S. Surgeon General Dr. Vivek Murthy: Efforts & Challenges in Promoting Pub
lic Health',
    'Published_date': '2023-09-25T12:00:43Z',
    'Views': '74073',
    'Likes': '1737',
    'Favorites': '0',
    'Comments': '813'},
  {'Title': 'Dr. Paul Conti: How to Build and Maintain Healthy Relationships | Huberman L
ab Guest Series',
    'Published_date': '2023-09-20T12:00:38Z',
    'Views': '295949',

        'Likes': '6108',
      'Favorites': '0',
      'Comments': '486'},
     {'Title': 'How to Use Music to Boost Motivation, Mood & Improve Learning | Huberman Lab
Podcast',
      'Published_date': '2023-09-18T12:00:35Z',
      'Views': '409975',
      'Likes': '12508',
      'Favorites': '0',
      'Comments': '1134'},
     {'Title': 'Dr. Paul Conti: How to Improve Your Mental Health | Huberman Lab Guest Serie
s',
      'Published_date': '2023-09-13T12:00:49Z',
      'Views': '383021',
      'Likes': '7046',
      'Favorites': '0',
      'Comments': '642'},
     {'Title': 'Journal Club with Dr. Peter Attia | Metformin for Longevity & The Power of B
elief Effects',
      'Published_date': '2023-09-11T12:04:21Z',
      'Views': '238336',
      'Likes': '5567',
      'Favorites': '0',
      'Comments': '500'},
     {'Title': 'Dr. Paul Conti: How to Understand & Assess Your Mental Health | Huberman Lab
Guest Series',
      'Published_date': '2023-09-06T12:00:50Z',
      'Views': '4252646',
      'Likes': '33857',
      'Favorites': '0',
      'Comments': '2241'},
     {'Title': 'Marc Andreessen: How Risk Taking, Innovation & Artificial Intelligence Trans
form Human Experience',
      'Published_date': '2023-09-04T12:00:51Z',
      'Views': '313071',
      'Likes': '4050',
      'Favorites': '0',
      'Comments': '460'},
     {'Title': 'AMA #10: Benefits of Nature & "Grounding," Hearing Loss Research & Avoiding
Altitude Sickness',
      'Published_date': '2023-08-30T12:00:36Z',
      'Views': '115291',
      'Likes': '3025',
      'Favorites': '0',
      'Comments': '306'},
     {'Title': 'Goals Toolkit: How to Set & Achieve Your Goals | Huberman Lab Podcast',
      'Published_date': '2023-08-28T12:00:15Z',
      'Views': '613971',
      'Likes': '16915',
      'Favorites': '0',
      'Comments': '793'},
     {'Title': 'Dr. David Linden: Life, Death & the Neuroscience of Your Unique Experience |
Huberman Lab Podcast',
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an Lab Podcast #73',
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Lab Podcast #68',
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Podcast #52',
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Lab Podcast #49',
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#16',
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    Podcast #8',
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    t #3',
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In [38]:
```python
video_Data = pd.DataFrame(video_details)
```

In [39]:
```python
video_Data
```

Out[39]:

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0	Dr. Natalie Crawford: Female Hormone Health, F...	2023-11-13T13:00:16Z	42010	1575	0	165
1	Dr. Michael Eisenberg: Improving Male Sexual H...	2023-11-06T13:00:41Z	209520	5160	0	649
2	AMA #12: Thoughts on Longevity Supplements (Re...	2023-10-31T18:00:33Z	120185	2441	0	250
3	Mental Health Toolkit: Tools to Bolster Your M...	2023-10-30T12:00:11Z	236796	6990	0	599
4	Mark Zuckerberg & Dr. Priscilla Chan: Curing A...	2023-10-23T12:00:02Z	342884	9507	0	3239
...	...	...	...	...	...	...
174	How to Defeat Jetlag, Shift Work & Sleeplessne...	2021-01-25T13:00:18Z	437884	12144	0	1412
175	Using Science to Optimize Sleep, Learning & Me...	2021-01-18T13:00:25Z	1220664	34831	0	1980
176	Master Your Sleep & Be More Alert When Awake |...	2021-01-11T13:59:33Z	3166128	93682	0	4852
177	How Your Nervous System Works & Changes | Hube...	2021-01-04T16:00:44Z	1213441	51585	0	2972
178	Welcome to the Huberman Lab Podcast	2020-12-23T15:00:05Z	764882	15752	0	2377

179 rows × 6 columns

In [40]:
```python
video_Data['Published_date'] = pd.to_datetime(video_Data['Published_date']).dt.date
video_Data['Views'] = pd.to_numeric(video_Data['Views'])
video_Data['Likes'] = pd.to_numeric(video_Data['Likes'])
video_Data['Favorites'] = pd.to_numeric(video_Data['Favorites'])
video_Data['Comments'] = pd.to_numeric(video_Data['Comments'])
```

In [42]:
```python
top10_videos = video_Data.sort_values(by='Views', ascending=False).head(10)
top10_videos
```

Out[42]:

	Title	Published_date	Views	Likes	Favorites	Comments
137	Controlling Your Dopamine For Motivation, Focu...	2021-09-27	7868163	241269	0	8914
89	What Alcohol Does to Your Body, Brain & Health...	2022-08-22	5526150	111423	0	10114
139	ADHD & How Anyone Can Improve Their Focus | Hu...	2021-09-13	5219594	120225	0	9878
135	Effects of Fasting & Time Restricted Eating on...	2021-10-11	5212769	102360	0	5336

154	Science of Muscle Growth, Increasing Strength ...	2021-05-31	4652987	103497	0	3790
73	Dr. Chris Palmer: Diet & Nutrition for Mental ...	2022-11-21	4453311	48973	0	3567
155	How to Lose Fat with Science-Based Tools | Hub...	2021-05-24	4316704	96912	0	4668
76	Dr Layne Norton: The Science of Eating for Hea...	2022-11-07	4256860	49286	0	2502
15	Dr. Paul Conti: How to Understand & Assess You...	2023-09-06	4252646	33857	0	2241
111	Dr. Andy Galpin: How to Build Strength, Muscle...	2022-03-28	4252563	50017	0	1993

In [62]:
```python
ax1 = sns.barplot(x='Views', y='Title', data=top10_videos, palette = palette)
xlabels = ['{:,.0f}'.format(x) + 'M' for x in ax1.get_xticks()/1000000]
ax1.set_xticklabels(xlabels)
```

C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\AppData\Local\Temp\ipykernel_9788\3547065693.py:3: UserWarning: FixedForma
tter should only be used together with FixedLocator
  ax1.set_xticklabels(xlabels)

Out[62]:
```
[Text(0.0, 0, '0M'),
 Text(1000000.0, 0, '1M'),
 Text(2000000.0, 0, '2M'),
 Text(3000000.0, 0, '3M'),
 Text(4000000.0, 0, '4M'),
 Text(5000000.0, 0, '5M'),
 Text(6000000.0, 0, '6M'),
 Text(7000000.0, 0, '7M'),
 Text(8000000.0, 0, '8M'),
 Text(9000000.0, 0, '9M')]
```
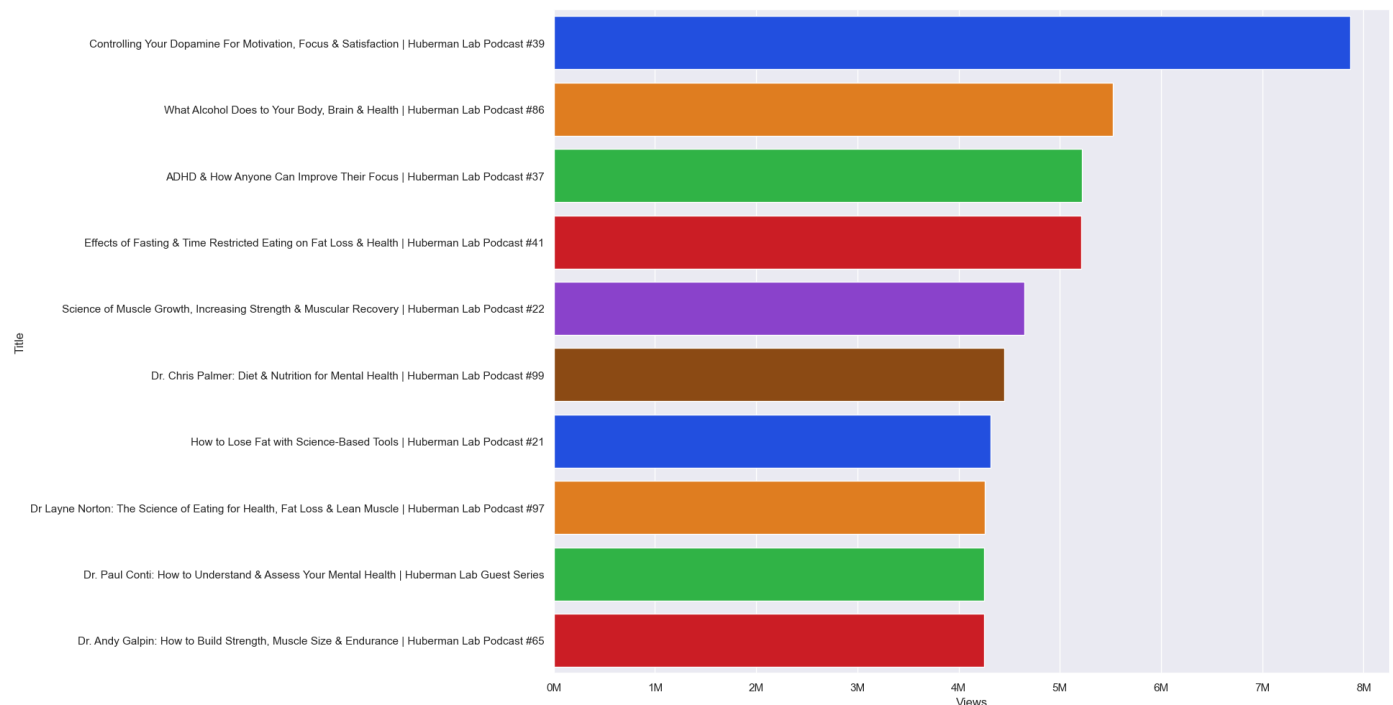


```python
video_Data['Month']= pd.to_datetime(video_Data['Published_date']).dt.strftime('%b')
```

`video_Data`

Out[46]:

	Title	Published_date	Views	Likes	Favorites	Comments	Month
0	Dr. Natalie Crawford: Female Hormone Health, F...	2023-11-13	42010	1575	0	165	Nov
1	Dr. Michael Eisenberg: Improving Male Sexual H...	2023-11-06	209520	5160	0	649	Nov
2	AMA #12: Thoughts on Longevity Supplements (Re...	2023-10-31	120185	2441	0	250	Oct
3	Mental Health Toolkit: Tools to Bolster Your M...	2023-10-30	236796	6990	0	599	Oct
4	Mark Zuckerberg & Dr. Priscilla Chan: Curing A...	2023-10-23	342884	9507	0	3239	Oct
...	...	...	...	...	...	...	...
174	How to Defeat Jetlag, Shift Work & Sleeplessne...	2021-01-25	437884	12144	0	1412	Jan
175	Using Science to Optimize Sleep, Learning & Me...	2021-01-18	1220664	34831	0	1980	Jan
176	Master Your Sleep & Be More Alert When Awake |...	2021-01-11	3166128	93682	0	4852	Jan
177	How Your Nervous System Works & Changes	Hube...	2021-01-04	1213441	51585	0	2972	Jan
178	Welcome to the Huberman Lab Podcast	2020-12-23	764882	15752	0	2377	Dec

179 rows × 7 columns

In [48]:
```python
videos_per_month = video_Data.groupby('Month', as_index=False).size()
videos_per_month
```

Out[48]:

	Month	size
0	Apr	14
1	Aug	17
2	Dec	11
3	Feb	17
4	Jan	17
5	Jul	14
6	Jun	13
7	Mar	15
8	May	16
9	Nov	13
10	Oct	15
11	Sep	17

```
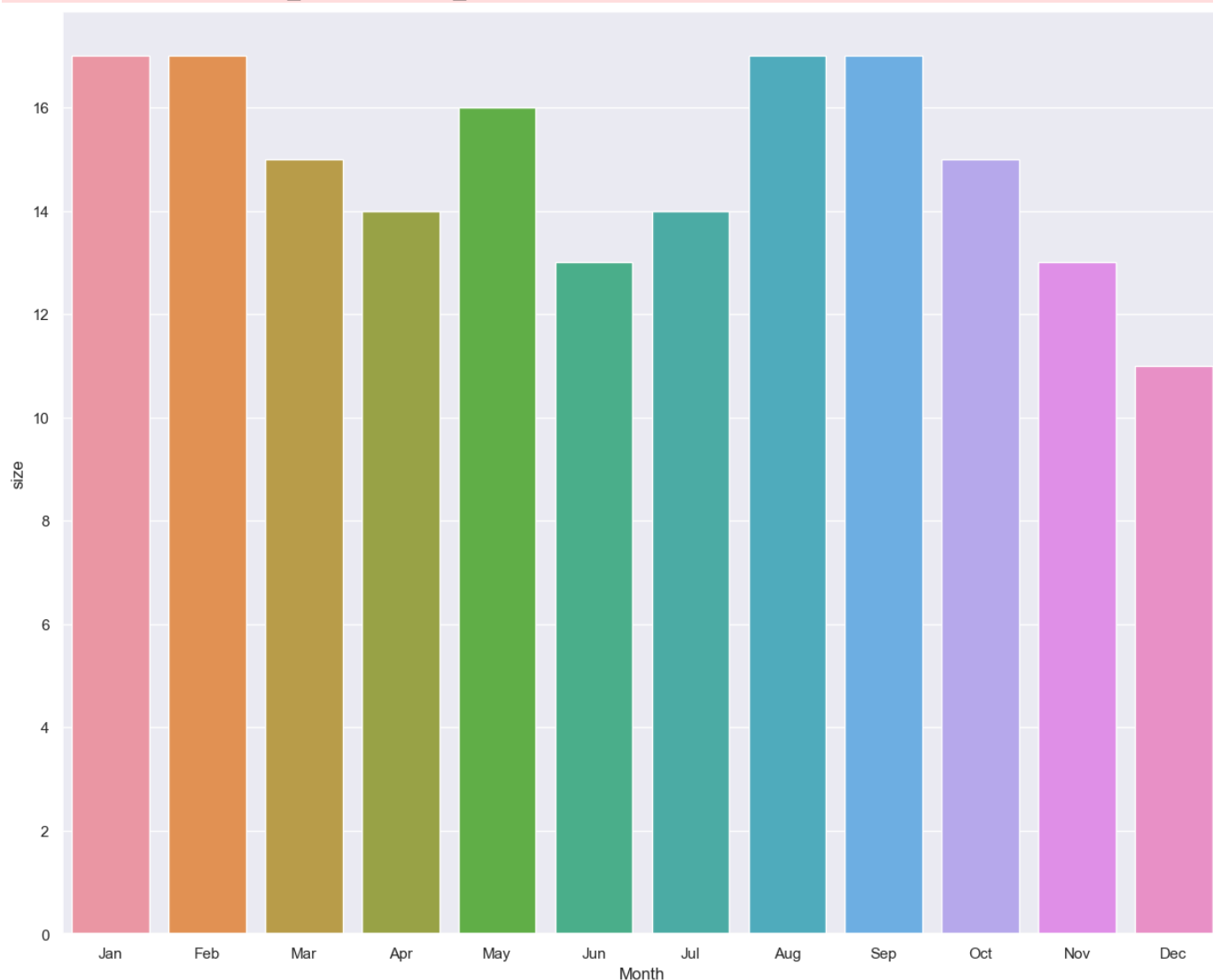In [49]: sort_order = ['Jan','Feb','Mar','Apr','May','Jun','Jul','Aug','Sep', 'Oct','Nov','Dec']
```

```
In [50]: videos_per_month.index = pd.CategoricalIndex(videos_per_month['Month'], categories=sort_
```

```
In [54]: videos_per_month = videos_per_month.sort_index()
```

```
In [64]: ax2 = sns.barplot(x='Month', y='size', data=videos_per_month)
```

```
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn\_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn\_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
C:\Users\acer\anaconda3\envs\YT-env\lib\site-packages\seaborn\_oldcore.py:1498: FutureWa
rning: is_categorical_dtype is deprecated and will be removed in a future version. Use i
sinstance(dtype, CategoricalDtype) instead
  if pd.api.types.is_categorical_dtype(vector):
```



```
In [57]: video_Data.to_csv("Video_Details(Andrew Kuberman).csv")
```

```
In [ ]:
```