

```
In [1]: import pandas as pd
import numpy as np
from collections import Counter
from matplotlib import pyplot as plt
import os
import cv2
%matplotlib inline
```

```
In [2]: def load_filepaths():
    imdir_ideology = 'ideology_image_dataset/'
    ideology_files=os.listdir('ideology_image_dataset/')
    ideology_files_path=[os.path.join(imdir_ideology,file) for file in ideology_files]

    return ideology_files_path

ideology_files_path=load_filepaths()
len(ideology_files_path)
```

Out[2]: 2942

```
In [3]: def showClustering(predicted_labels,label):
    label_indexs= np.where(predicted_labels==label)[0]
    print("CLUSTER--> ",label,"TOTAL IMAGES--> ",len(label_indexs))
    if(len(label_indexs)>=500):
        fig=plt.figure(figsize=(10, 400))

    elif(len(label_indexs)>100 and len(label_indexs)<500):
        fig=plt.figure(figsize=(10, 70))
    elif(len(label_indexs)>=50 and len(label_indexs)<100):
        fig=plt.figure(figsize=(10, 30))

    elif(len(label_indexs)>=20 and len(label_indexs)<50):
        fig=plt.figure(figsize=(10, 20))

    elif(len(label_indexs)>=0 and len(label_indexs)<20):
        fig=plt.figure(figsize=(10, 8))

    for i,index in enumerate(label_indexs):

        image = cv2.imread(ideology_files_path[index])
        image= cv2.cvtColor(image, cv2.COLOR_BGR2RGB)

        columns = 4
        rows = np.ceil(len(label_indexs)/float(columns))

        fig.add_subplot(rows,columns, i+1)
        plt.imshow(image)

    plt.show()
```

```
In [4]: results_df=pd.read_csv('D://Himani-work/gsoc2020/code/image-results-hier/ideology_model_inception-resnetv2.npy-pca.csv')  
results_df
```

Out[4]:

	Unnamed: 0	n_clusters	silhouette	calinski	davies
0	Birch	2244	0.209010	26538.263420	0.207592
1	Agglomerative clustering	888	0.408699	9360.219731	0.536335

```
In [5]: predicted_Labels=np.load('D://Himani-work/gsoc2020/code/image-results-hier/ide  
ology_model_inception-resentv2.npy-pca_agg_labels.npy')  
unique_labels=set(predicted_Labels)  
for label in unique_labels:  
    if(label!=-1):  
        showClustering(predicted_Labels,label)
```

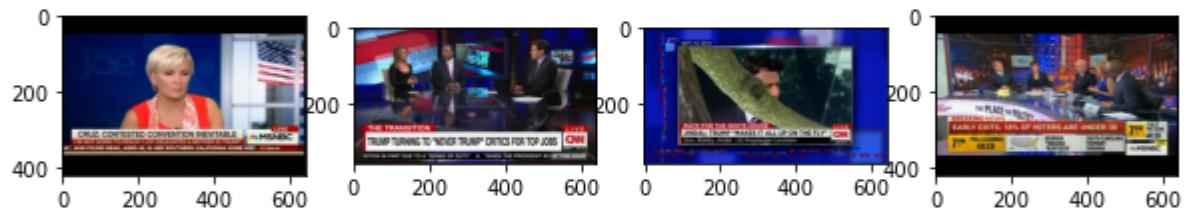
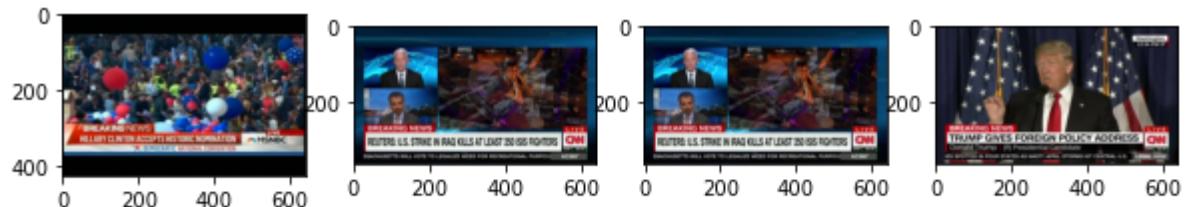
CLUSTER--> 0 TOTAL IMAGES--> 6



CLUSTER--> 1 TOTAL IMAGES--> 3



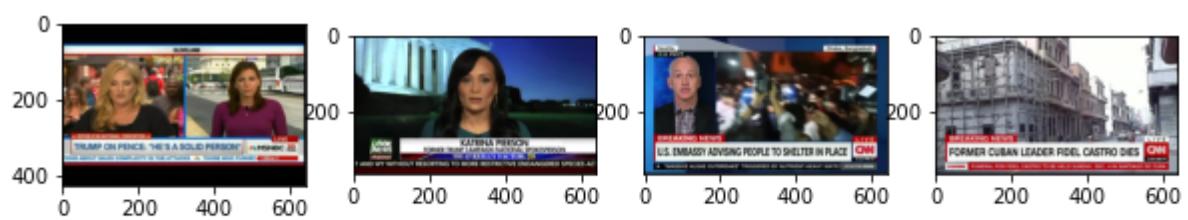
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CLUSTER--> 3 TOTAL IMAGES--> 3



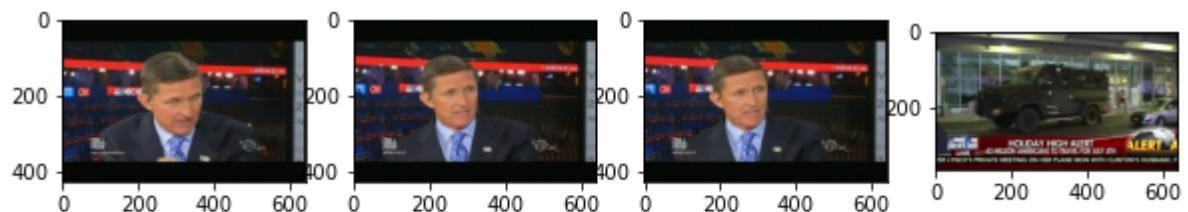
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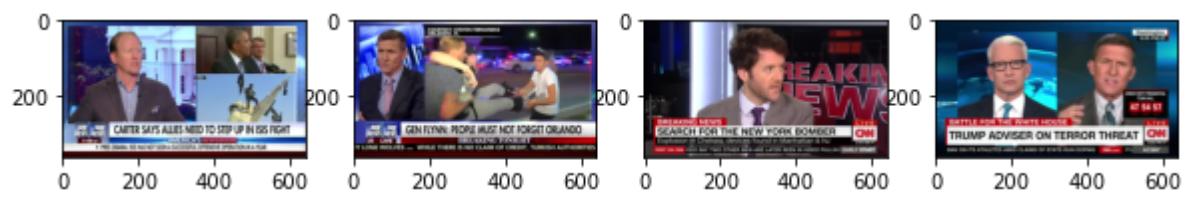
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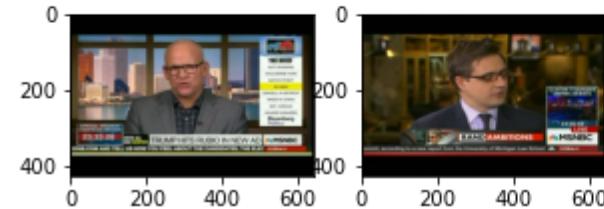
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CLUSTER--&gt; 7 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 8 TOTAL IMAGES--&gt; 6



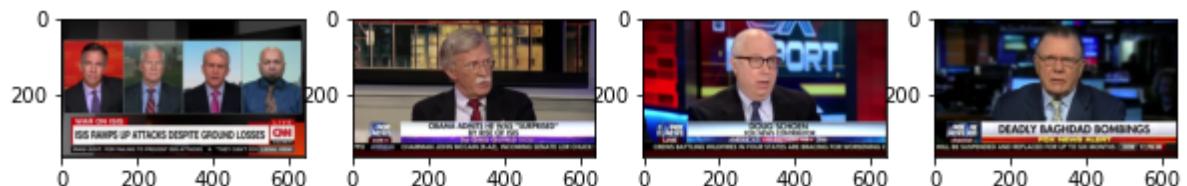
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CLUSTER--> 10 TOTAL IMAGES--> 6



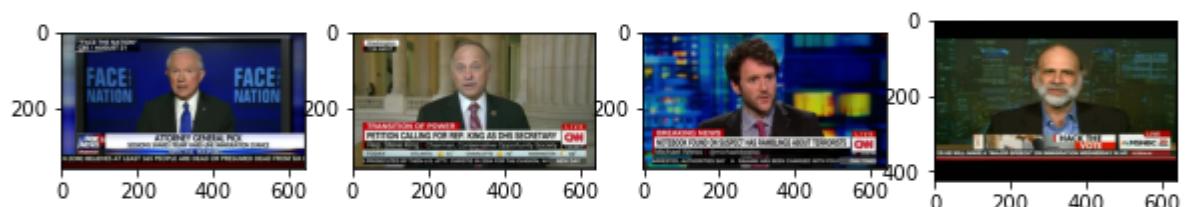
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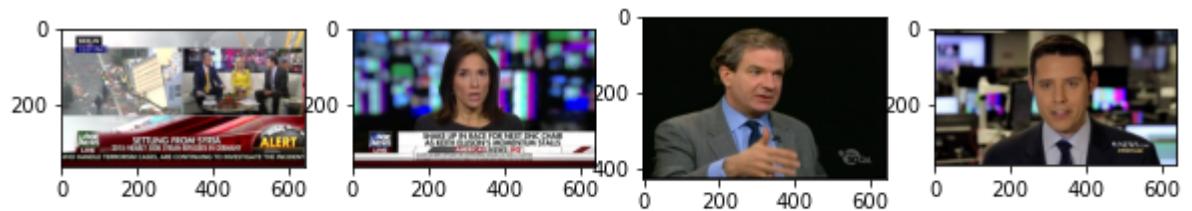
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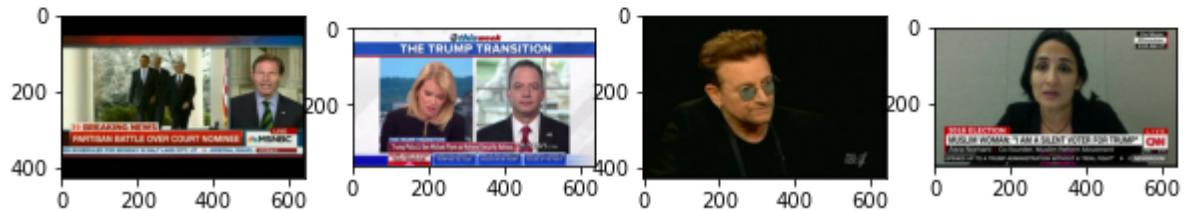
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CLUSTER--> 17 TOTAL IMAGES--> 8

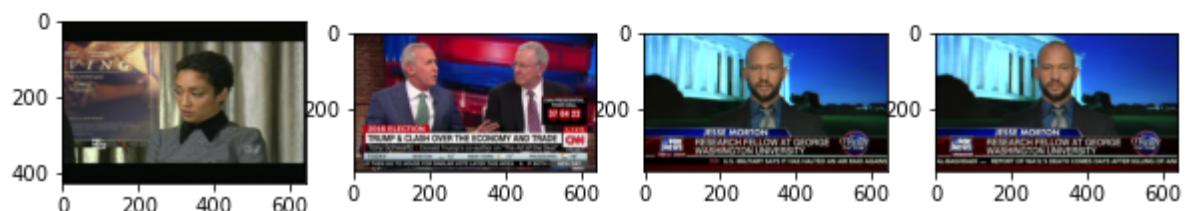




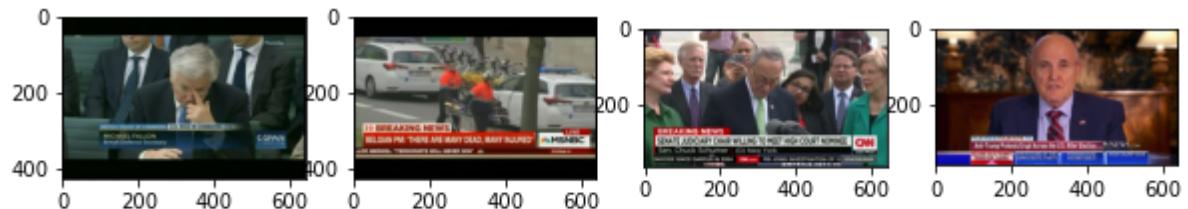
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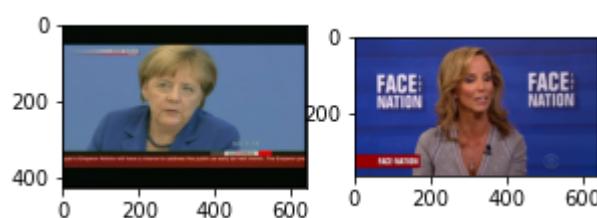
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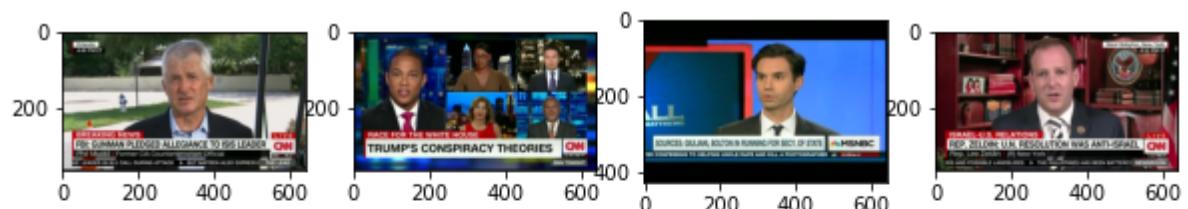
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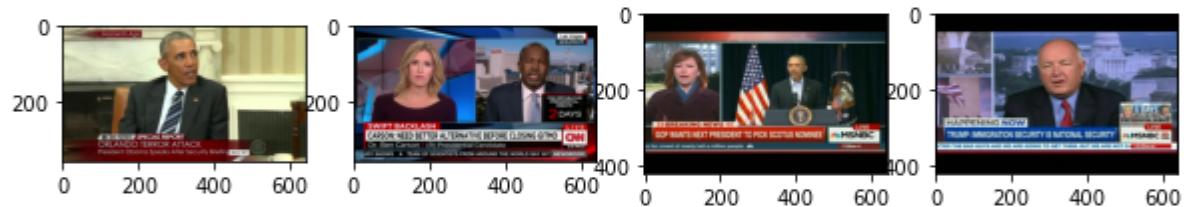
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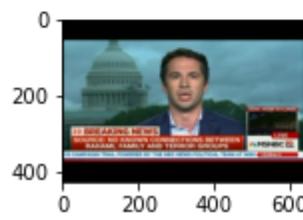
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CLUSTER--> 23 TOTAL IMAGES--> 9



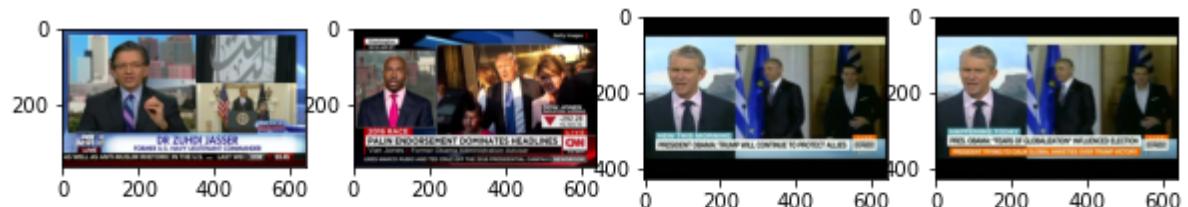
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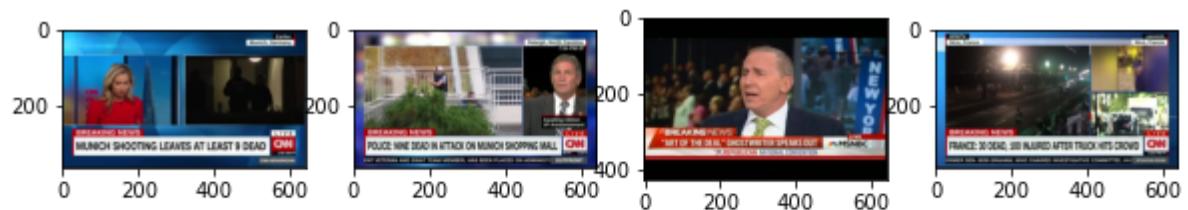
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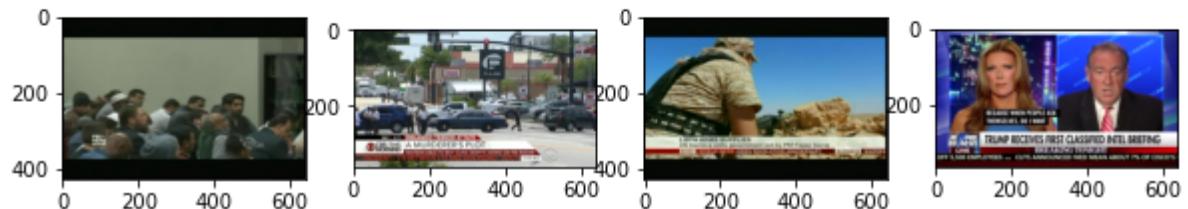
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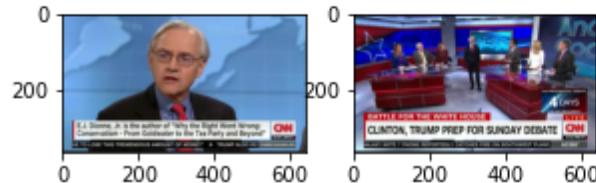


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CLUSTER--&gt; 28 TOTAL IMAGES--&gt; 6





CLUSTER--> 29 TOTAL IMAGES--> 4



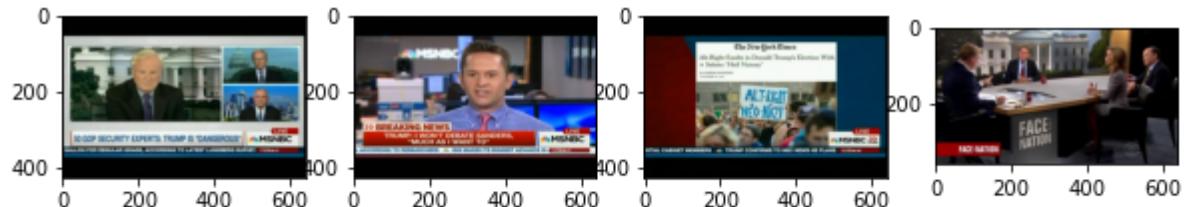
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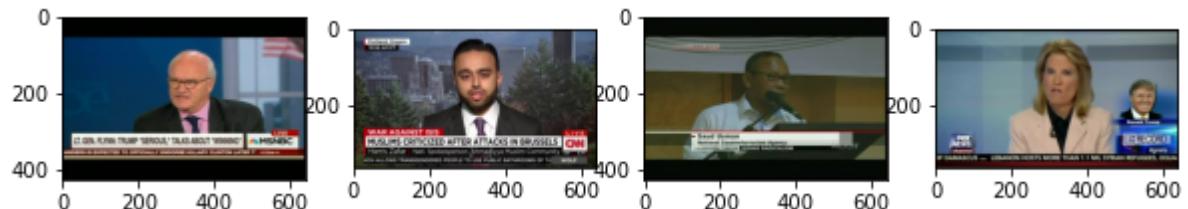
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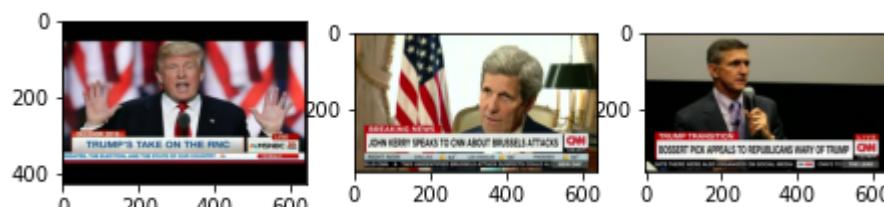
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CLUSTER--> 33 TOTAL IMAGES--> 4



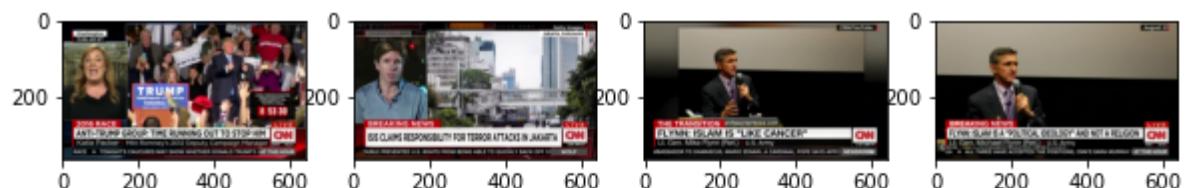
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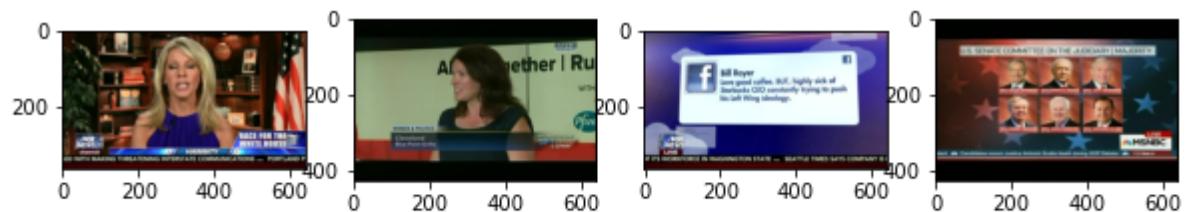
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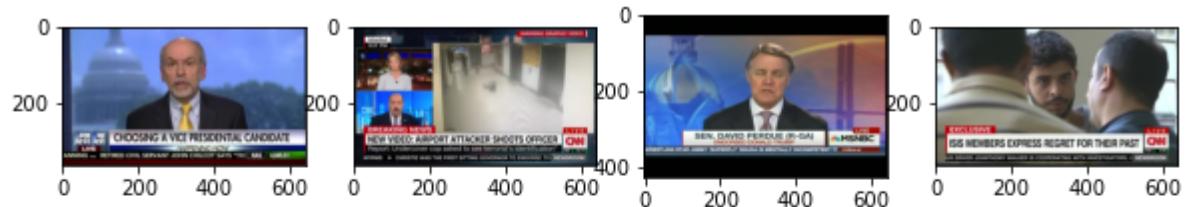
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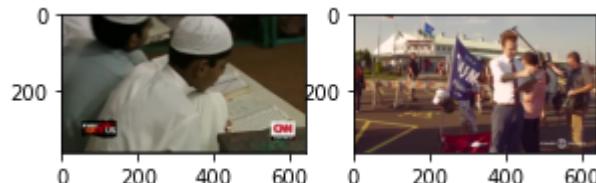
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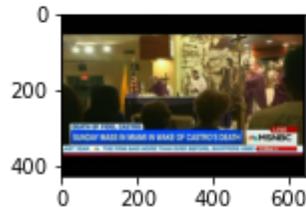
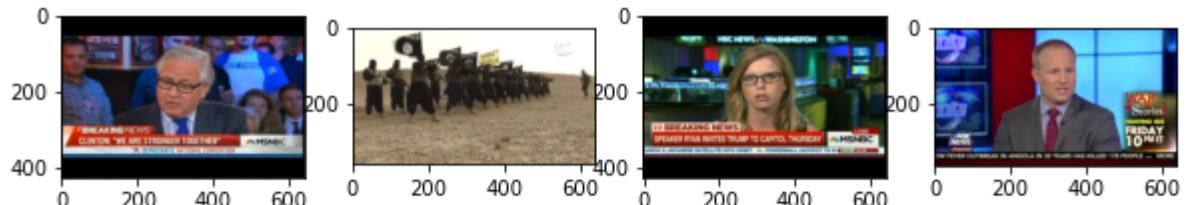
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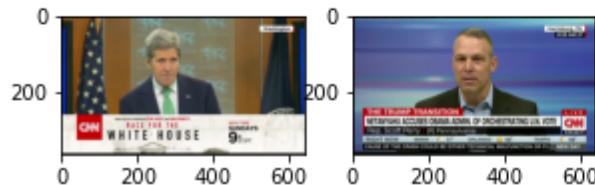
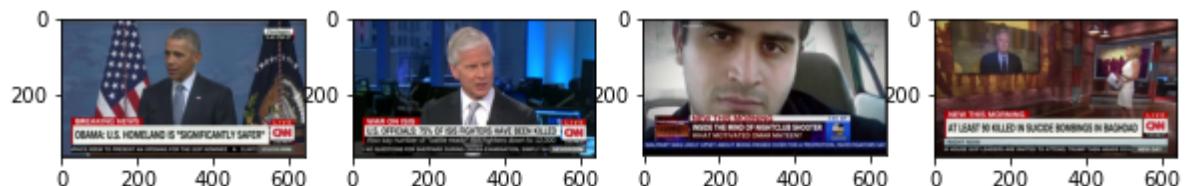
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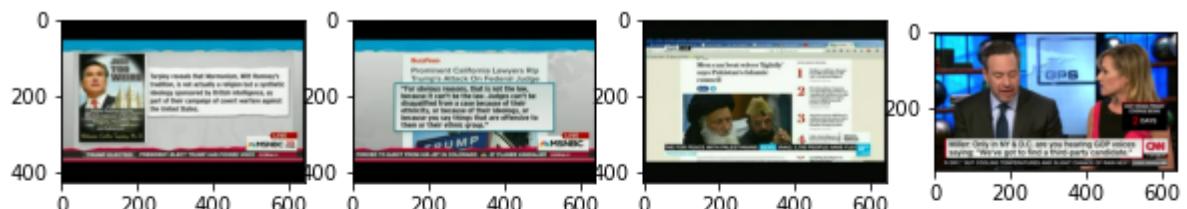
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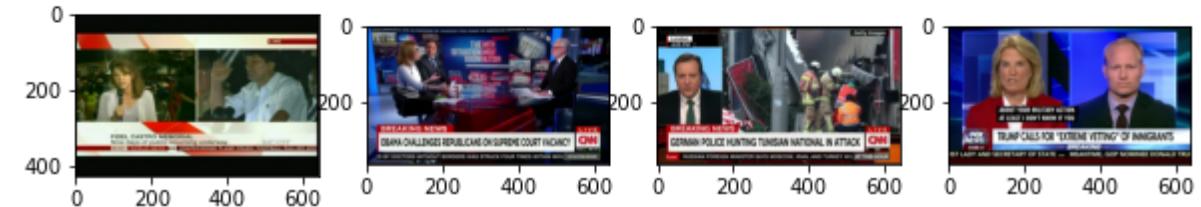
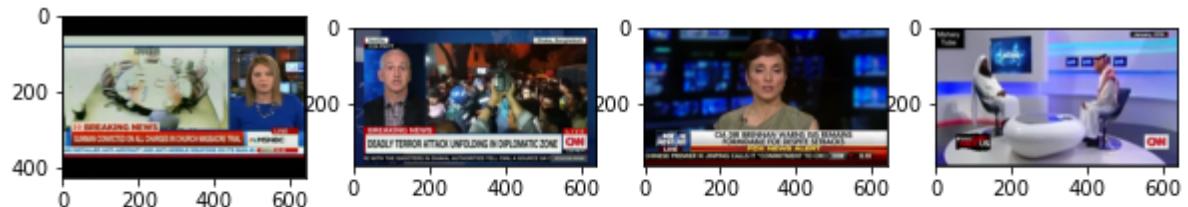
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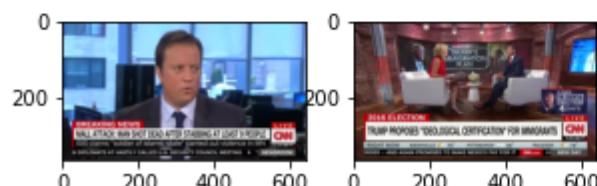
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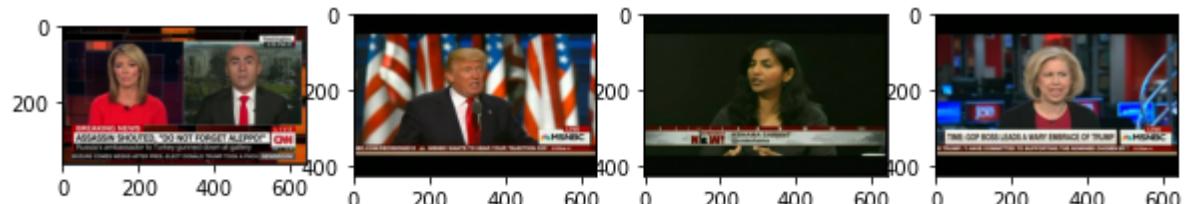
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CLUSTER--> 46 TOTAL IMAGES--> 6



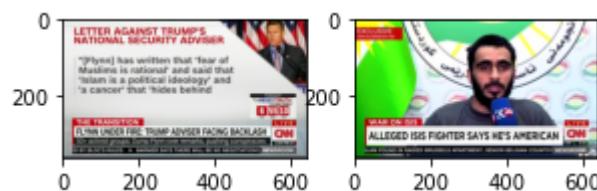
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CLUSTER--> 48 TOTAL IMAGES--> 7



CLUSTER--> 49 TOTAL IMAGES--> 2



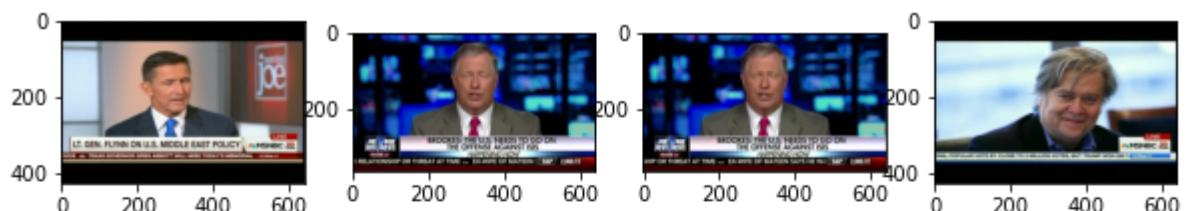
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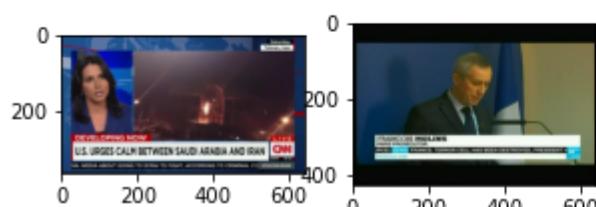
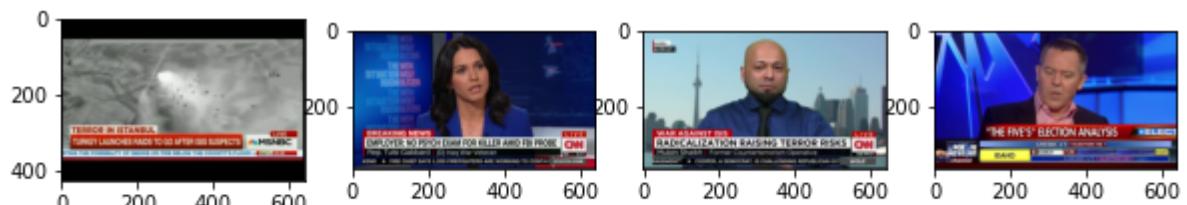


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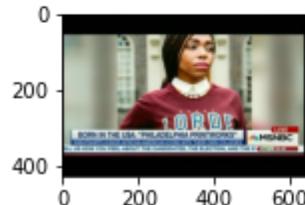
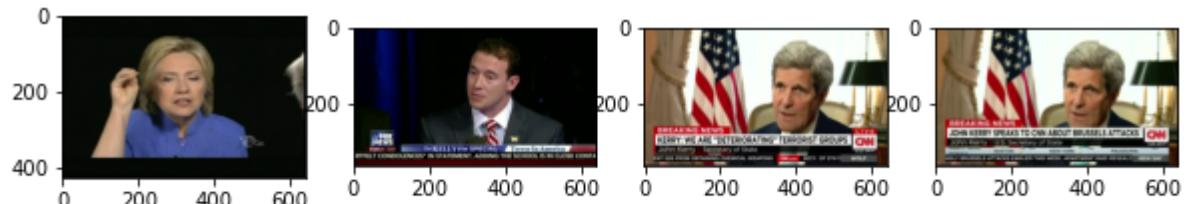
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CLUSTER--> 56 TOTAL IMAGES--> 5



CLUSTER--> 57 TOTAL IMAGES--> 3



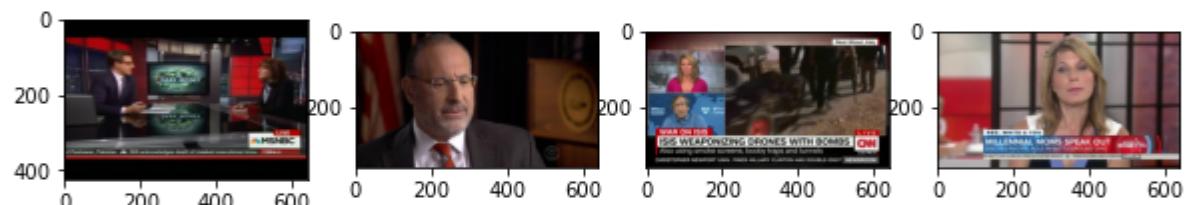
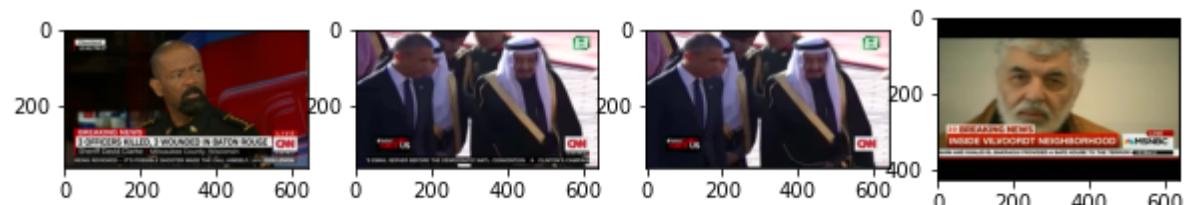
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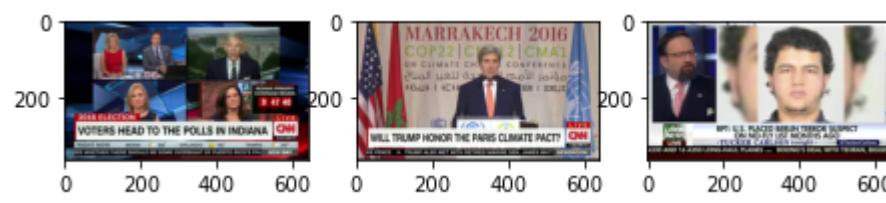
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CLUSTER--&gt; 60 TOTAL IMAGES--&gt; 11



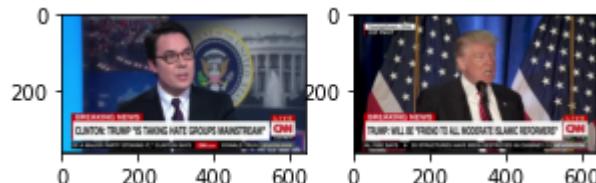
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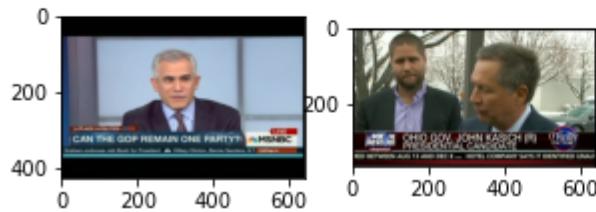
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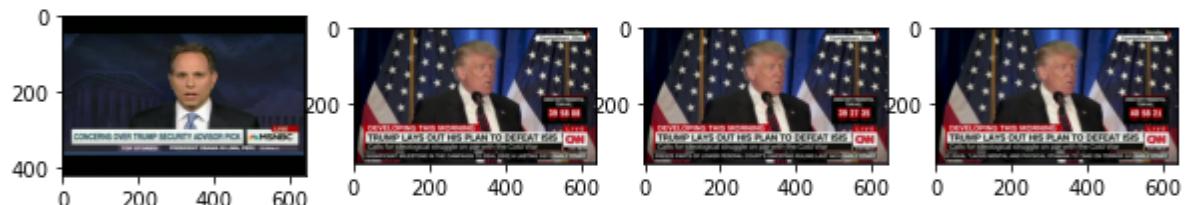
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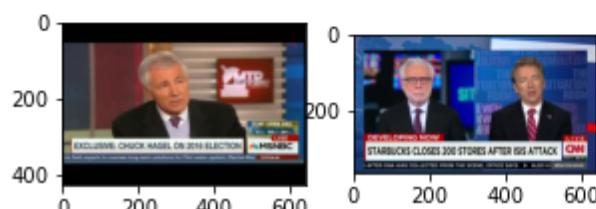
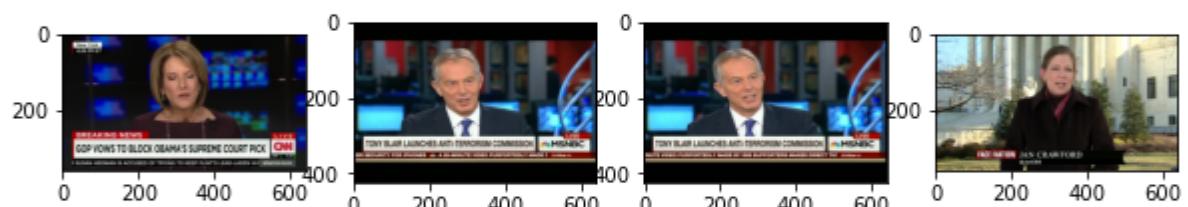
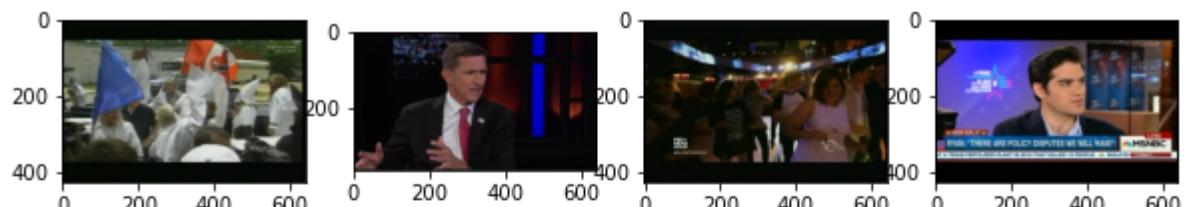
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CLUSTER--> 66 TOTAL IMAGES--> 9



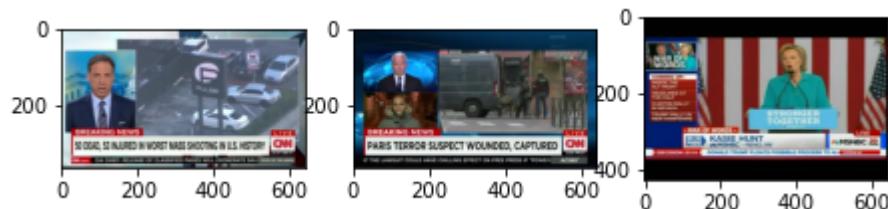
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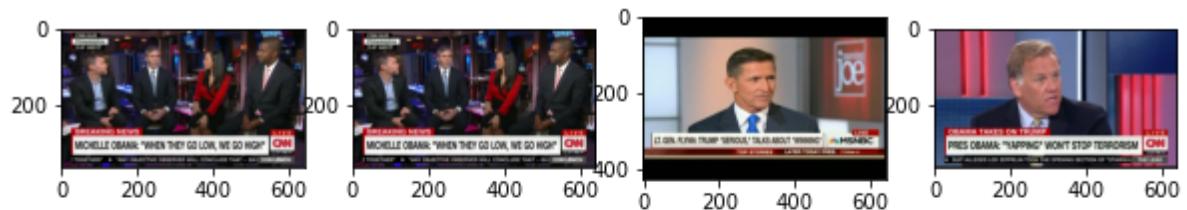
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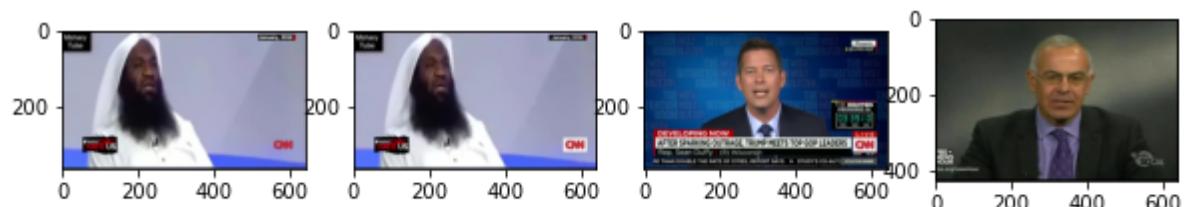
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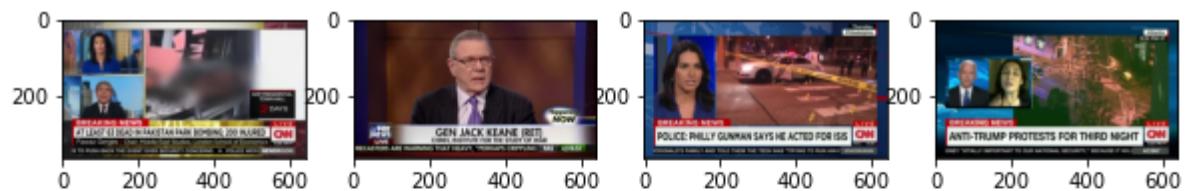
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CLUSTER--> 71 TOTAL IMAGES--> 5



CLUSTER--> 72 TOTAL IMAGES--> 5



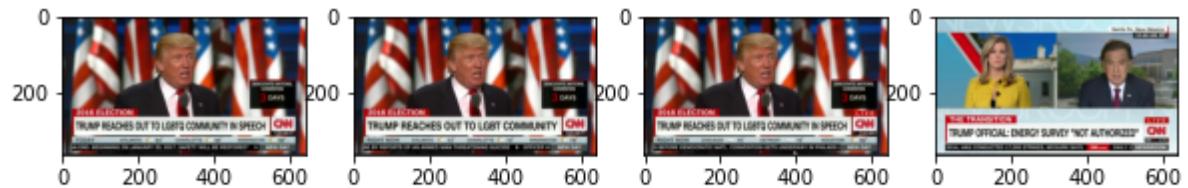
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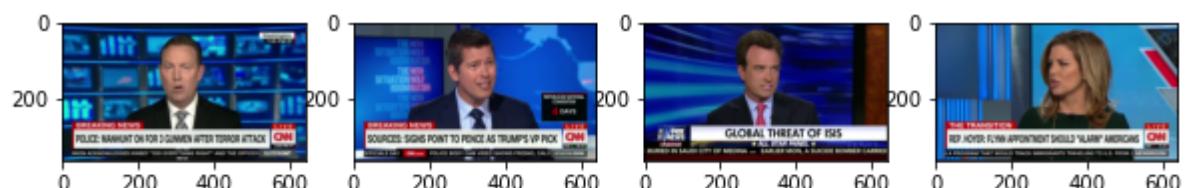
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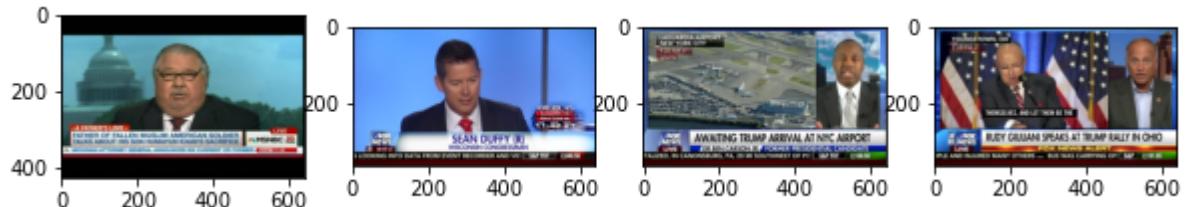
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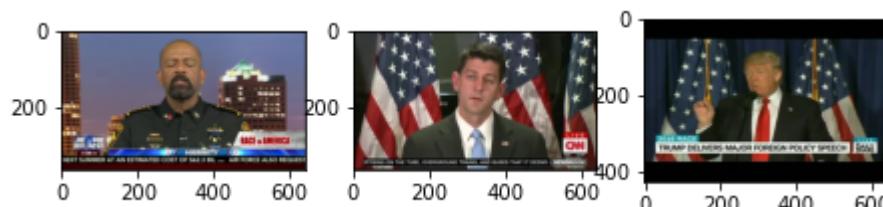
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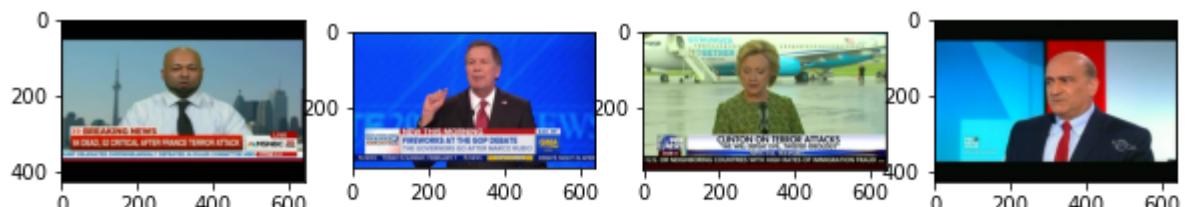
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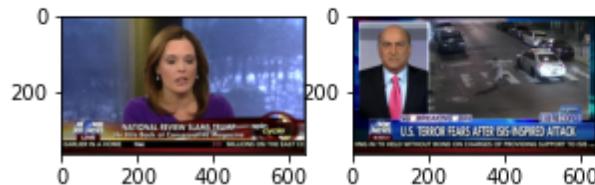
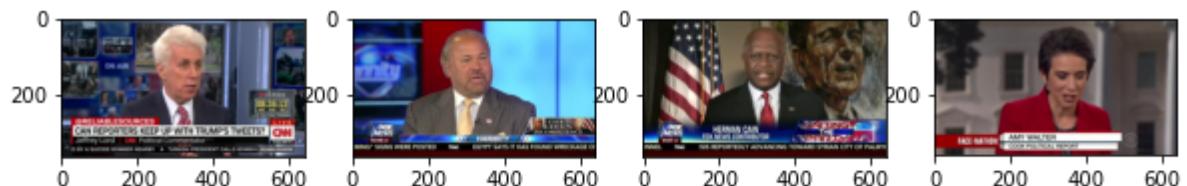
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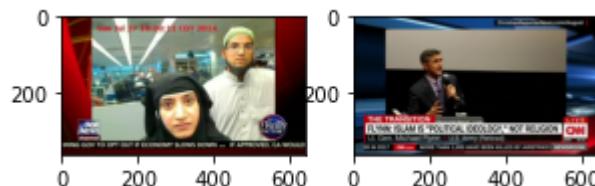
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CLUSTER--> 83 TOTAL IMAGES--> 6



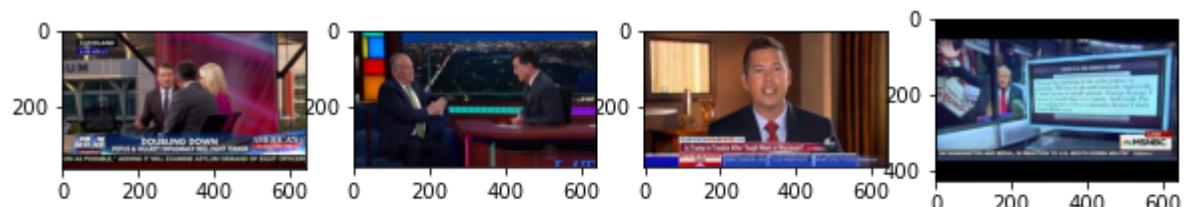
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CLUSTER--> 85 TOTAL IMAGES--> 3



CLUSTER--> 86 TOTAL IMAGES--> 5



CLUSTER--> 87 TOTAL IMAGES--> 4



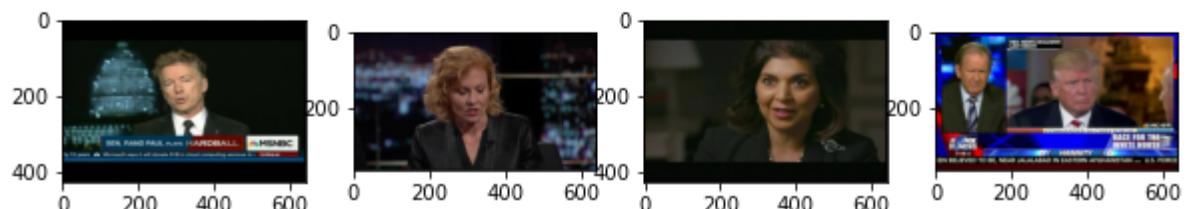
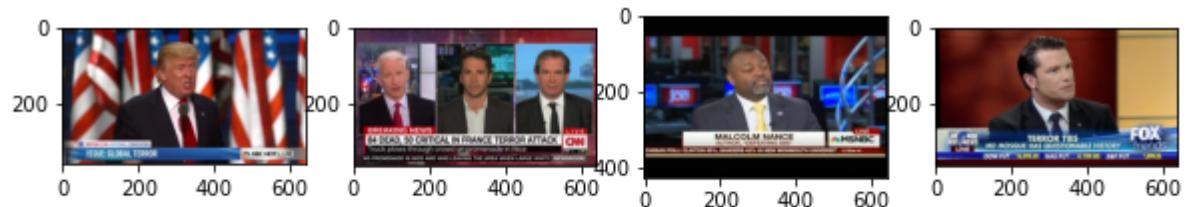
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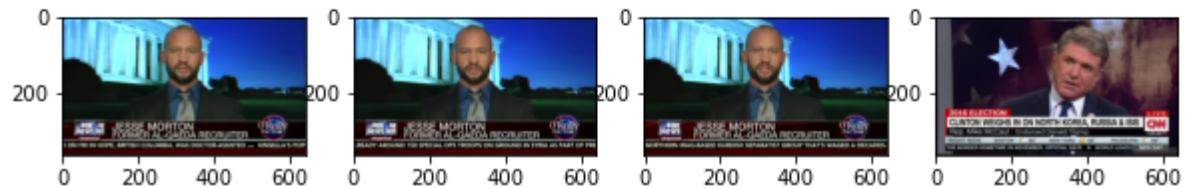
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CLUSTER--> 91 TOTAL IMAGES--> 8



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CLUSTER--> 93 TOTAL IMAGES--> 3



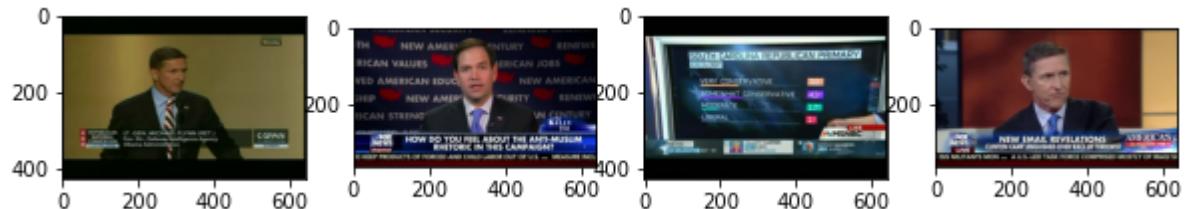
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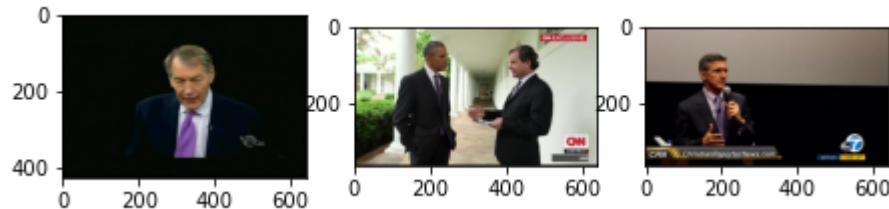
CLUSTER--> 95 TOTAL IMAGES--> 5



CLUSTER--> 96 TOTAL IMAGES--> 4



CLUSTER--> 97 TOTAL IMAGES--> 3



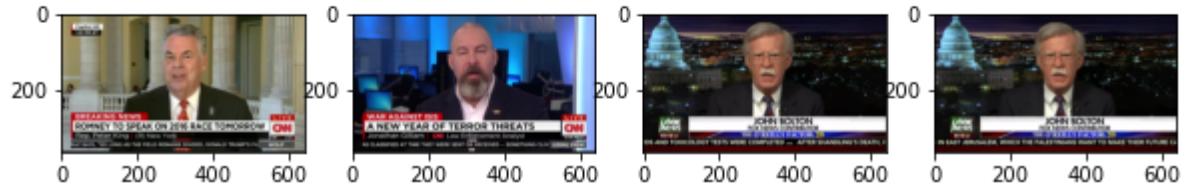
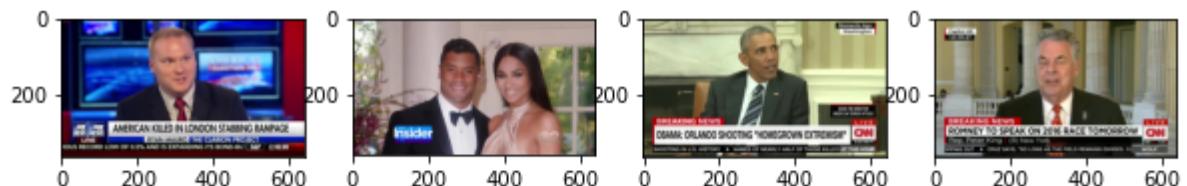
CLUSTER--> 98 TOTAL IMAGES--> 8



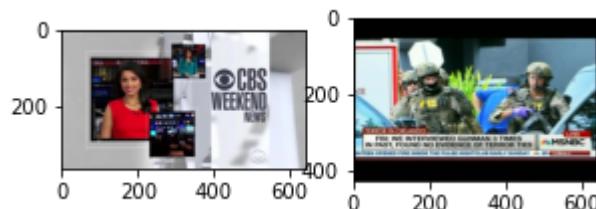
CLUSTER--> 99 TOTAL IMAGES--> 5



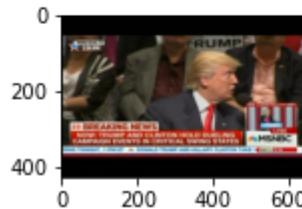
CLUSTER--> 100 TOTAL IMAGES--> 8



CLUSTER--> 101 TOTAL IMAGES--> 2



CLUSTER--> 102 TOTAL IMAGES--> 5



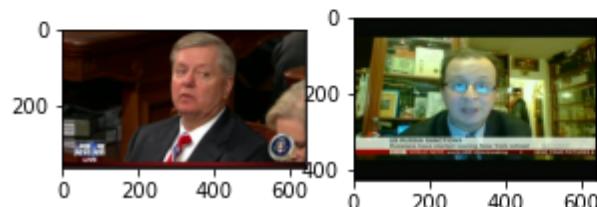
CLUSTER--> 103 TOTAL IMAGES--> 2



CLUSTER--&gt; 104 TOTAL IMAGES--&gt; 2



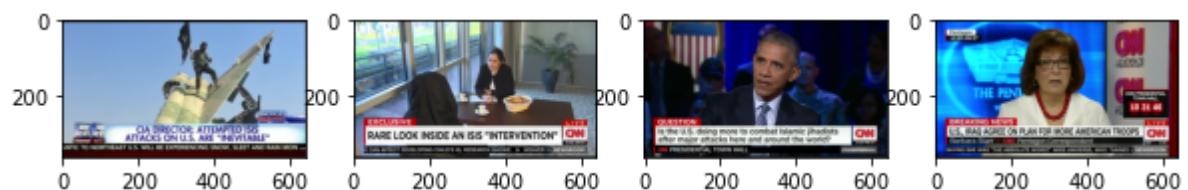
CLUSTER--&gt; 105 TOTAL IMAGES--&gt; 6



CLUSTER--&gt; 106 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 107 TOTAL IMAGES--&gt; 4



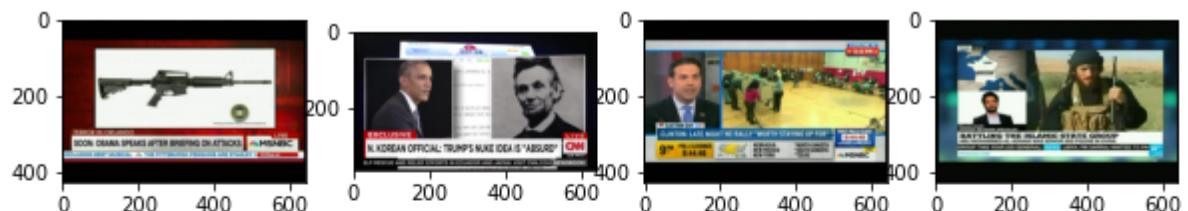
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CLUSTER--> 109 TOTAL IMAGES--> 6



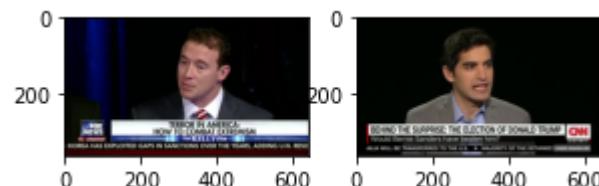
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CLUSTER--> 111 TOTAL IMAGES--> 5



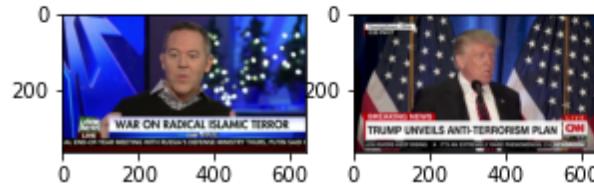
CLUSTER--> 112 TOTAL IMAGES--> 2



CLUSTER--> 113 TOTAL IMAGES--> 3



CLUSTER--> 114 TOTAL IMAGES--> 6



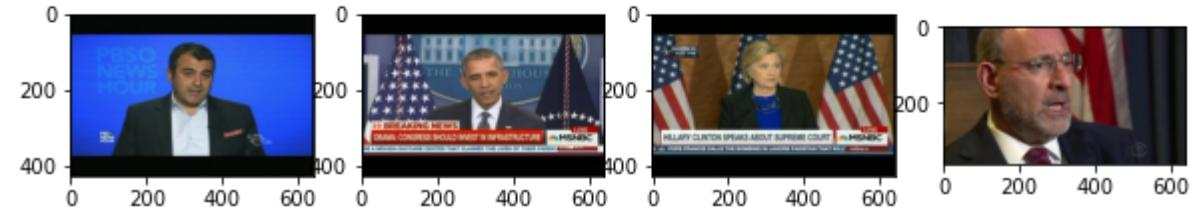
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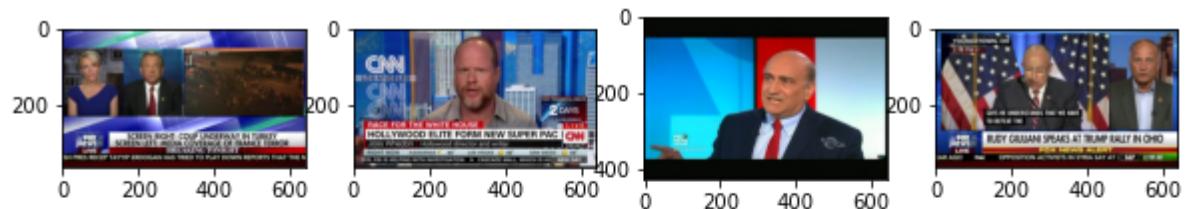
CLUSTER--> 116 TOTAL IMAGES--> 8



CLUSTER--> 117 TOTAL IMAGES--> 8



CLUSTER--> 118 TOTAL IMAGES--> 5



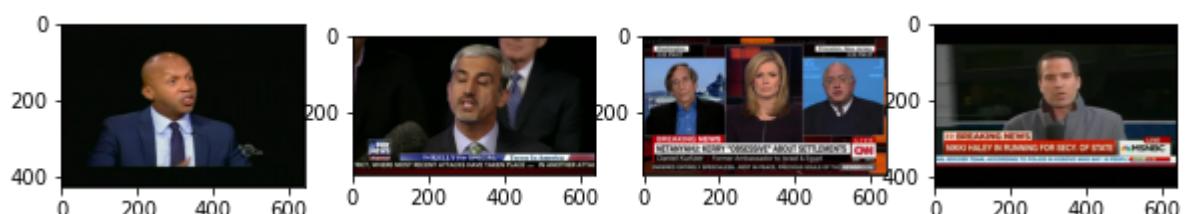
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CLUSTER--> 120 TOTAL IMAGES--> 2



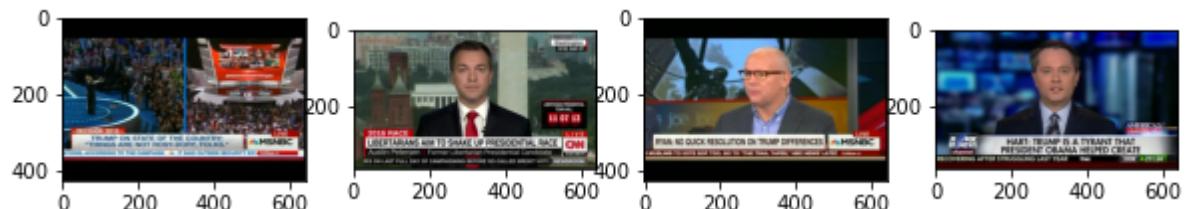
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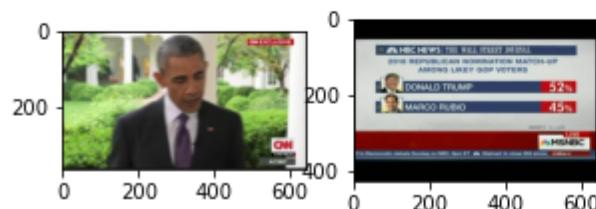
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CLUSTER--> 123 TOTAL IMAGES--> 4



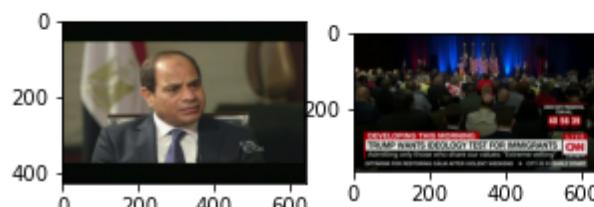
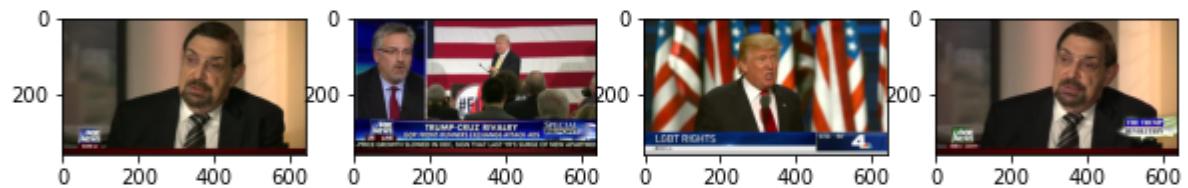
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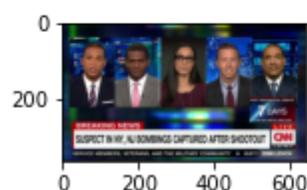
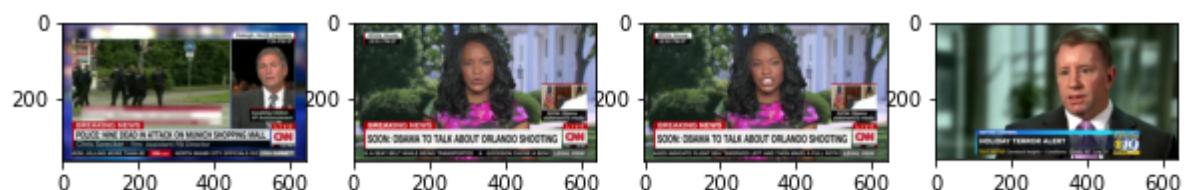
CLUSTER--> 125 TOTAL IMAGES--> 4



CLUSTER--> 126 TOTAL IMAGES--> 10



CLUSTER--> 127 TOTAL IMAGES--> 5



CLUSTER--&gt; 128 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 129 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 130 TOTAL IMAGES--&gt; 5



CLUSTER--&gt; 131 TOTAL IMAGES--&gt; 4



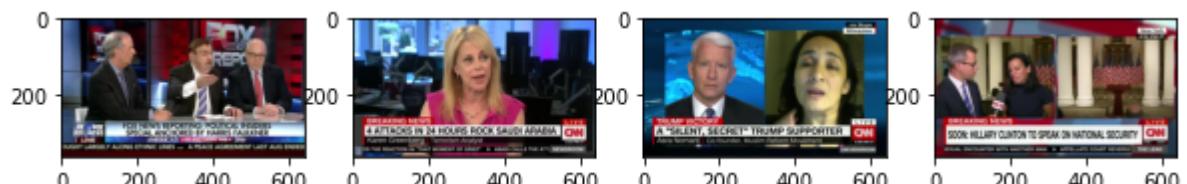
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CLUSTER--> 133 TOTAL IMAGES--> 6



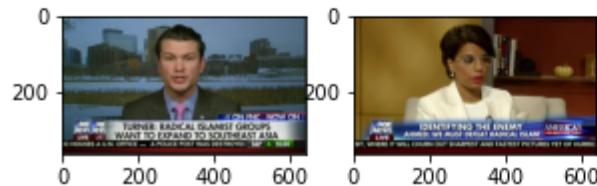
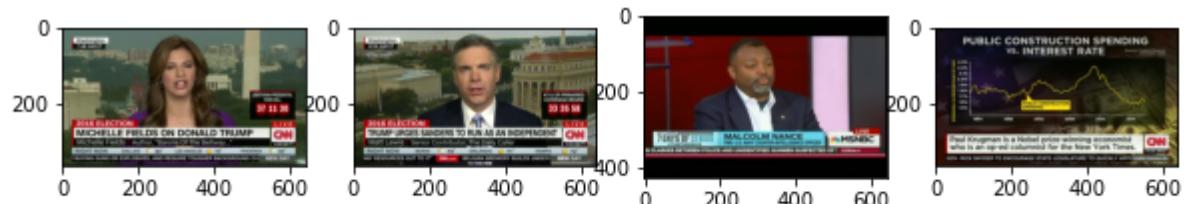
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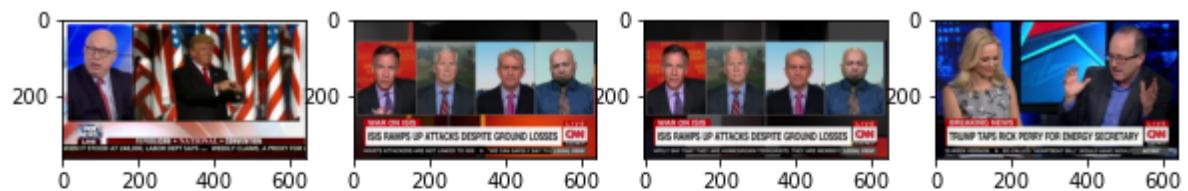
CLUSTER--> 135 TOTAL IMAGES--> 2



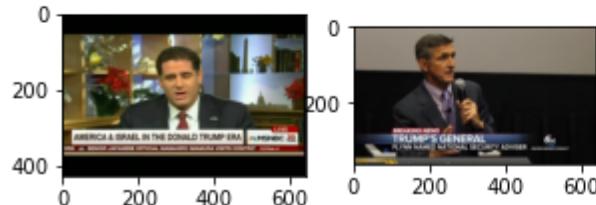
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CLUSTER--> 137 TOTAL IMAGES--> 7



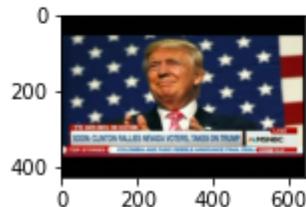
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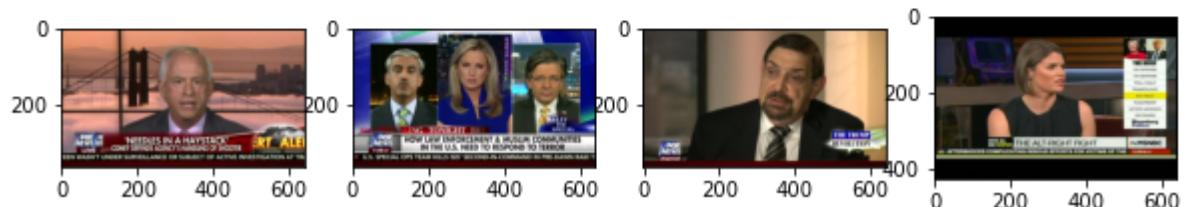
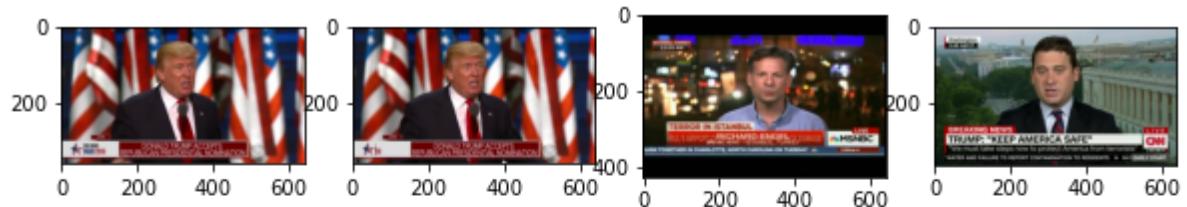
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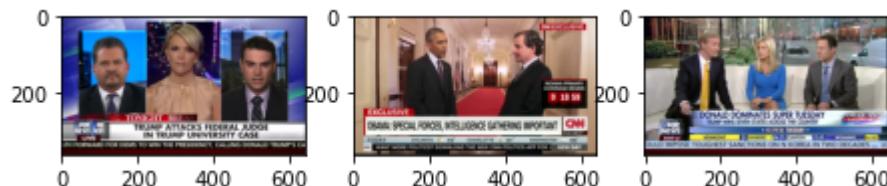
CLUSTER--> 140 TOTAL IMAGES--> 5



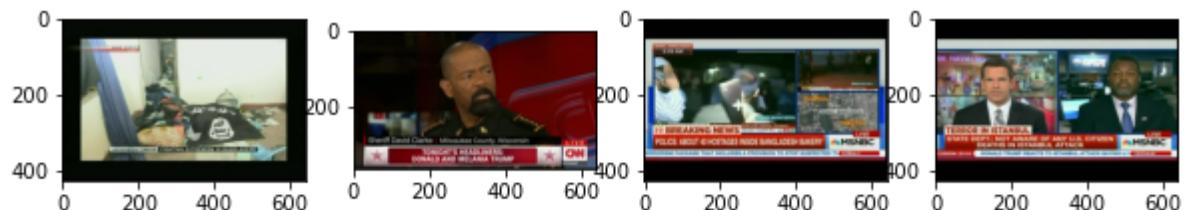
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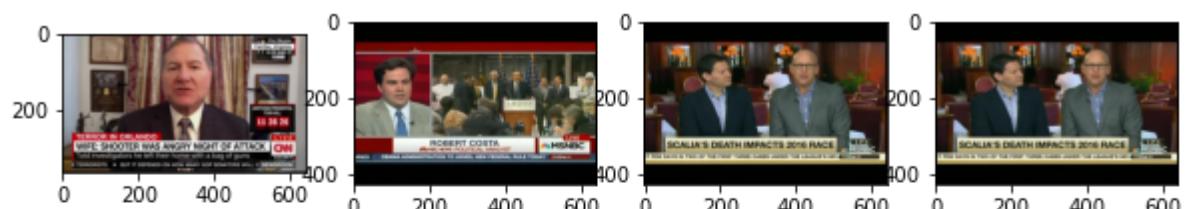
CLUSTER--> 142 TOTAL IMAGES--> 3



CLUSTER--> 143 TOTAL IMAGES--> 11



CLUSTER--> 144 TOTAL IMAGES--> 5



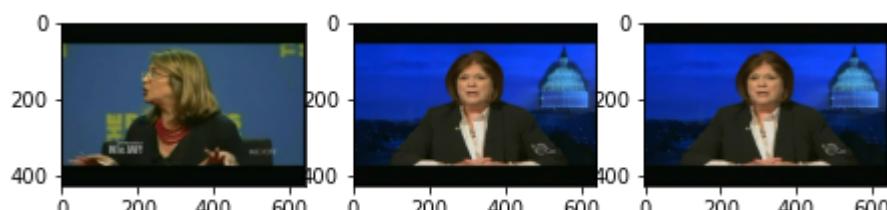
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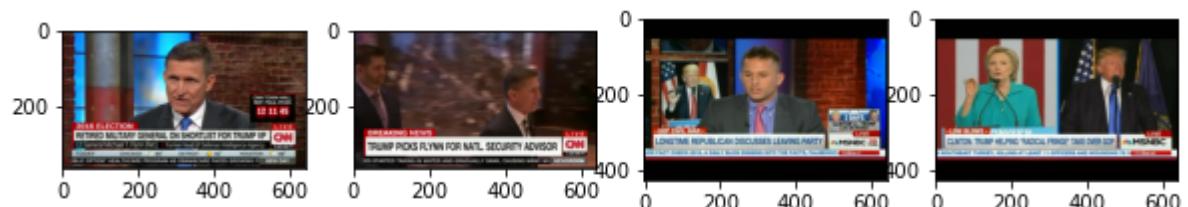
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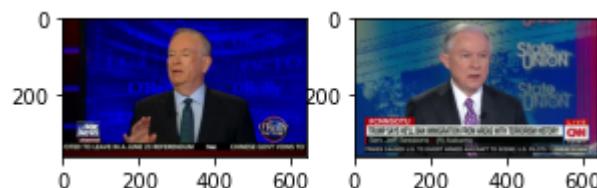
CLUSTER--> 147 TOTAL IMAGES--> 3



CLUSTER--> 148 TOTAL IMAGES--> 4



CLUSTER--> 149 TOTAL IMAGES--> 2



CLUSTER--> 150 TOTAL IMAGES--> 5

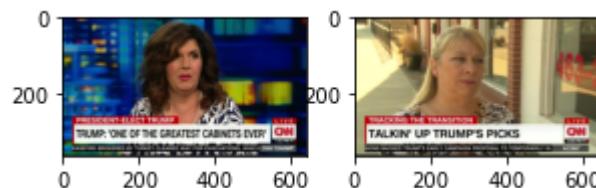


CLUSTER--> 151 TOTAL IMAGES--> 5





CLUSTER--> 152 TOTAL IMAGES--> 2



CLUSTER--> 153 TOTAL IMAGES--> 3



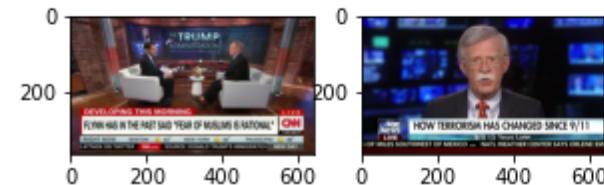
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CLUSTER--> 155 TOTAL IMAGES--> 3



CLUSTER--> 156 TOTAL IMAGES--> 6



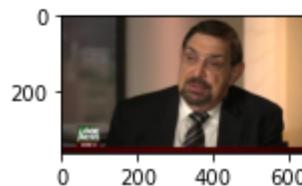
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CLUSTER--> 158 TOTAL IMAGES--> 2



CLUSTER--> 159 TOTAL IMAGES--> 9



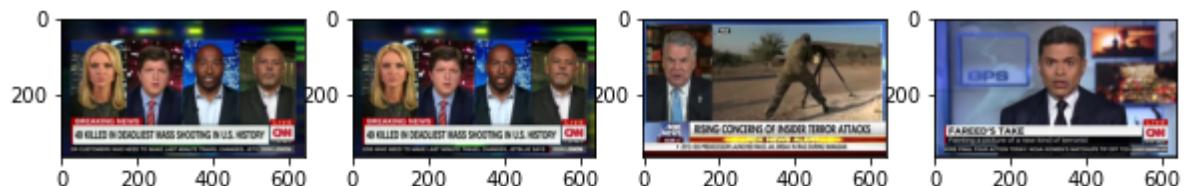
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CLUSTER--> 161 TOTAL IMAGES--> 4



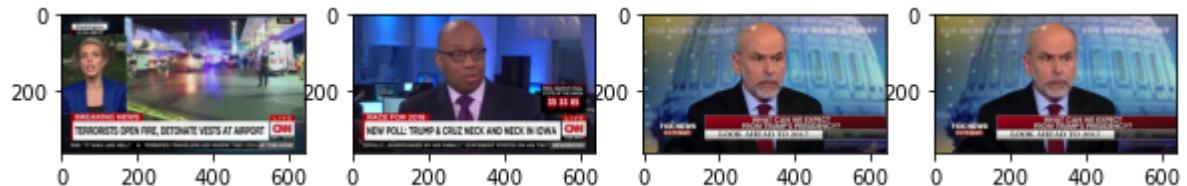
CLUSTER--> 162 TOTAL IMAGES--> 7



CLUSTER--> 163 TOTAL IMAGES--> 3



CLUSTER--> 164 TOTAL IMAGES--> 4



CLUSTER--> 165 TOTAL IMAGES--> 4



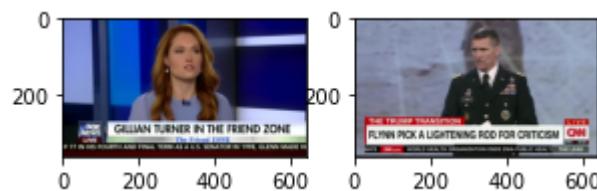
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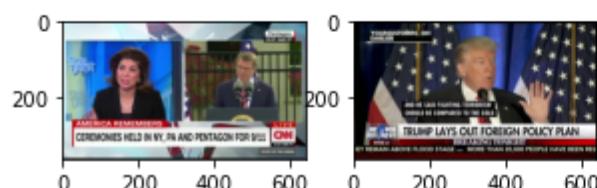
CLUSTER--> 167 TOTAL IMAGES--> 5



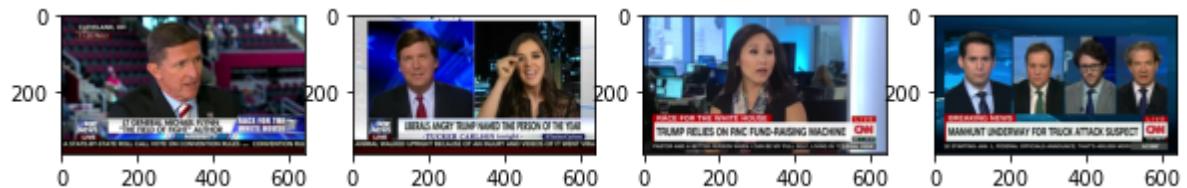
CLUSTER--> 168 TOTAL IMAGES--> 2



CLUSTER--> 169 TOTAL IMAGES--> 10



CLUSTER--&gt; 170 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 171 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 172 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 173 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 174 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 175 TOTAL IMAGES--&gt; 3



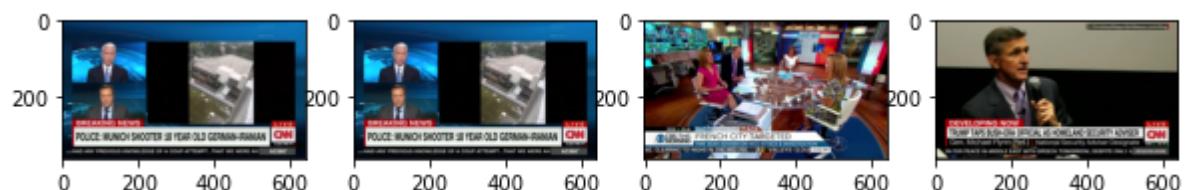
CLUSTER--&gt; 176 TOTAL IMAGES--&gt; 3



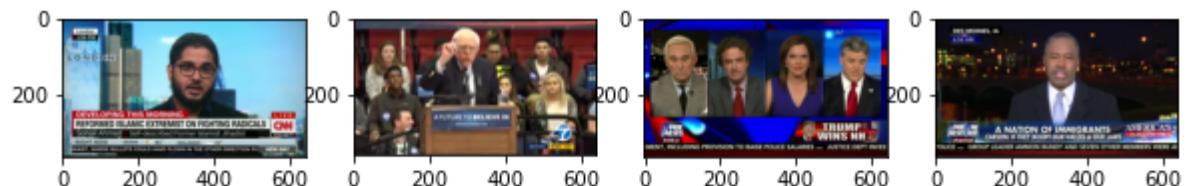
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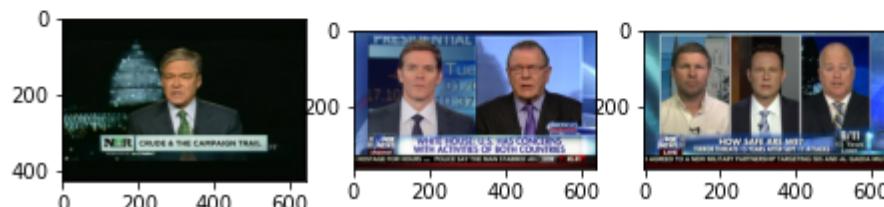
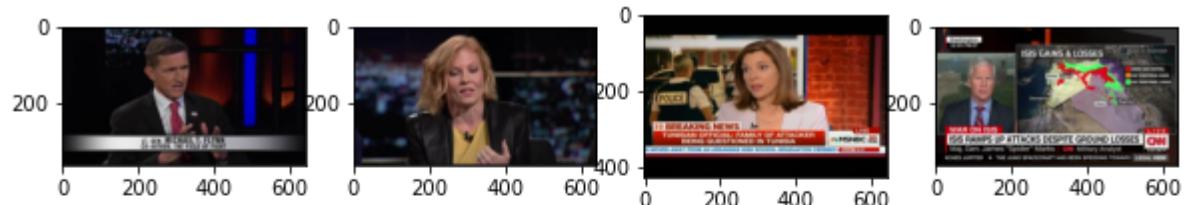
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CLUSTER--> 179 TOTAL IMAGES--> 5



CLUSTER--> 180 TOTAL IMAGES--> 7



CLUSTER--> 181 TOTAL IMAGES--> 2



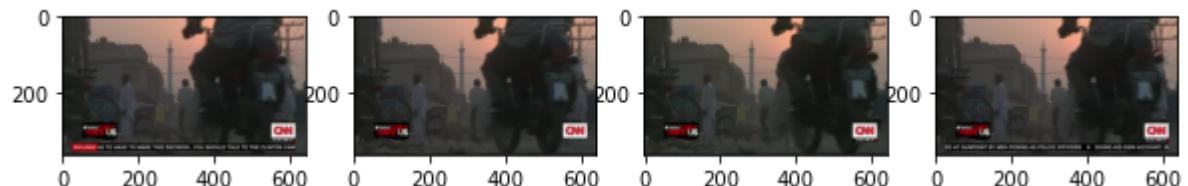
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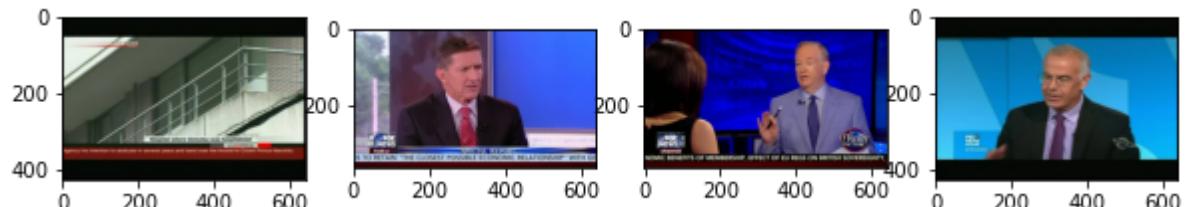
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CLUSTER--> 184 TOTAL IMAGES--> 4



CLUSTER--> 185 TOTAL IMAGES--> 4



CLUSTER--> 186 TOTAL IMAGES--> 4



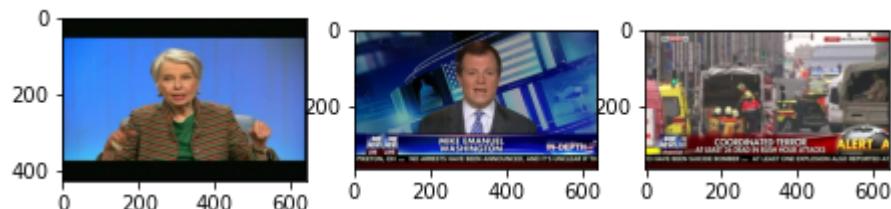
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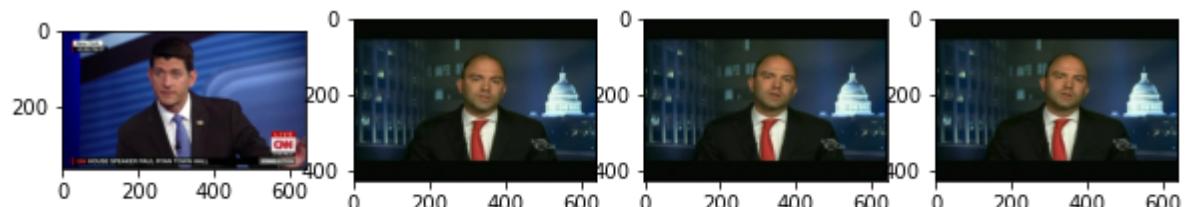
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CLUSTER--> 189 TOTAL IMAGES--> 3



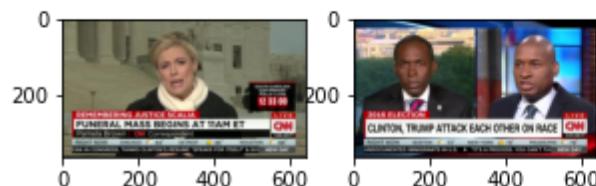
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CLUSTER--> 191 TOTAL IMAGES--> 2



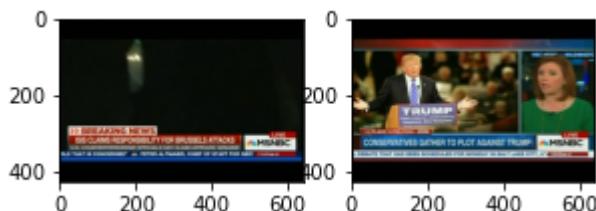
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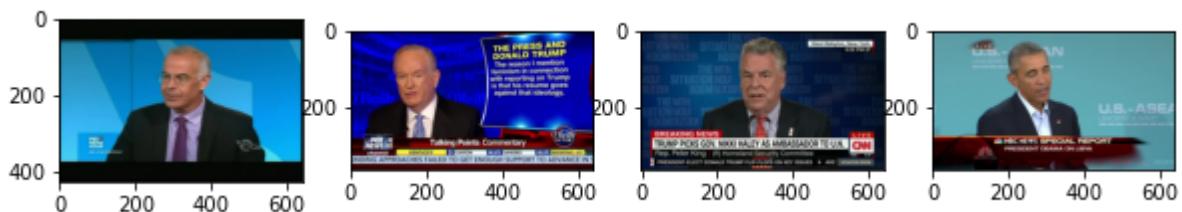
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CLUSTER--> 194 TOTAL IMAGES--> 2



CLUSTER--> 195 TOTAL IMAGES--> 4



CLUSTER--> 196 TOTAL IMAGES--> 6



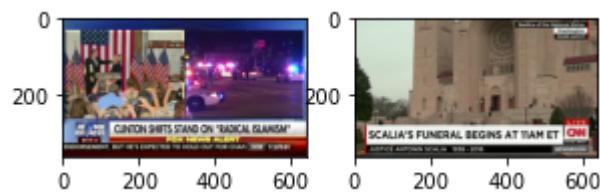
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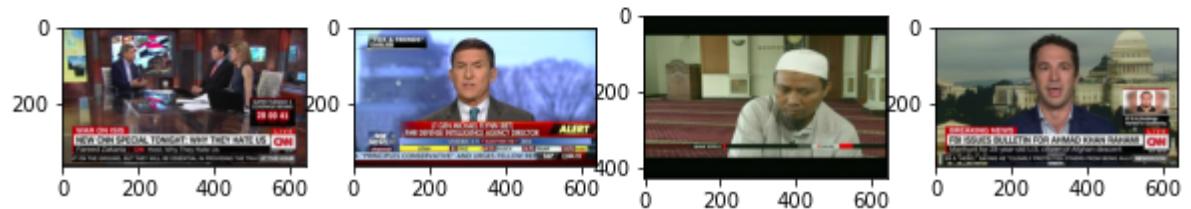
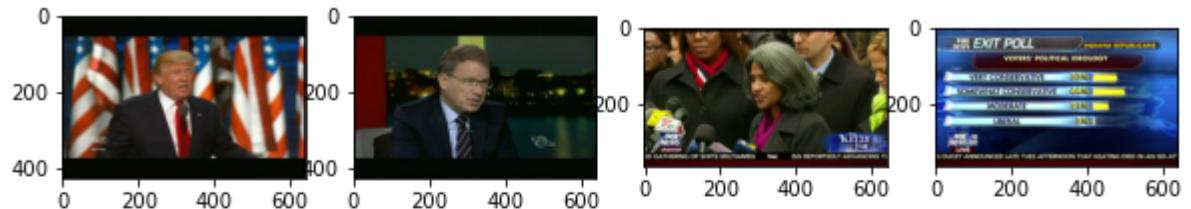
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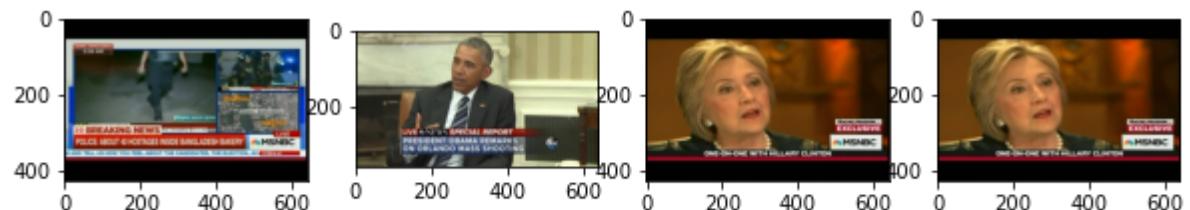
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CLUSTER--> 200 TOTAL IMAGES--> 8



CLUSTER--> 201 TOTAL IMAGES--> 5



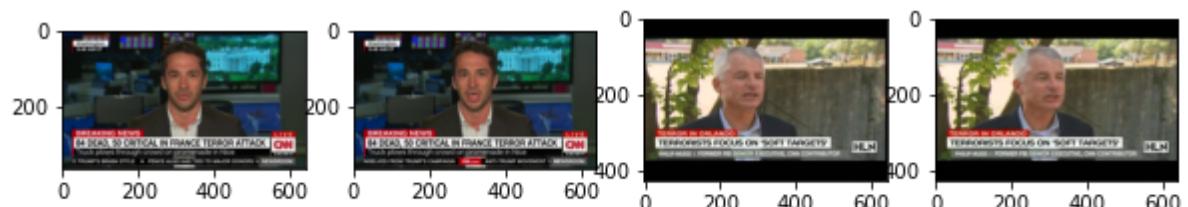
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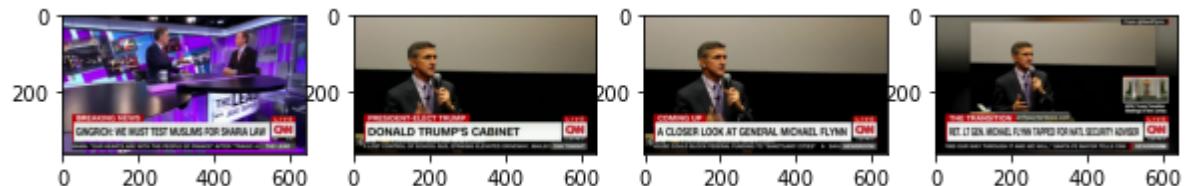
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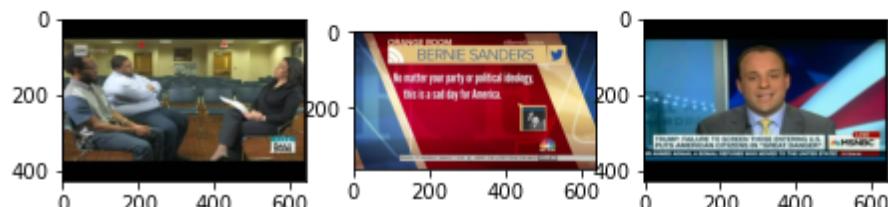
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CLUSTER--> 205 TOTAL IMAGES--> 4



CLUSTER--> 206 TOTAL IMAGES--> 7



CLUSTER--> 207 TOTAL IMAGES--> 3



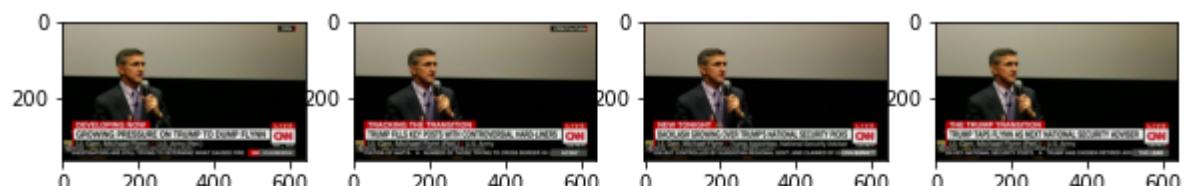
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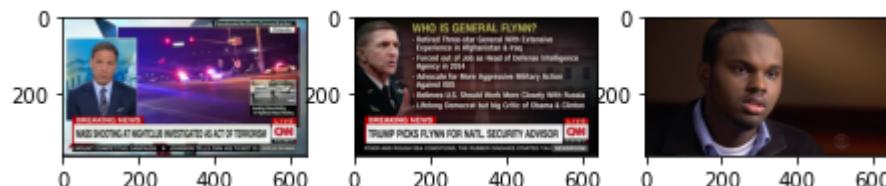
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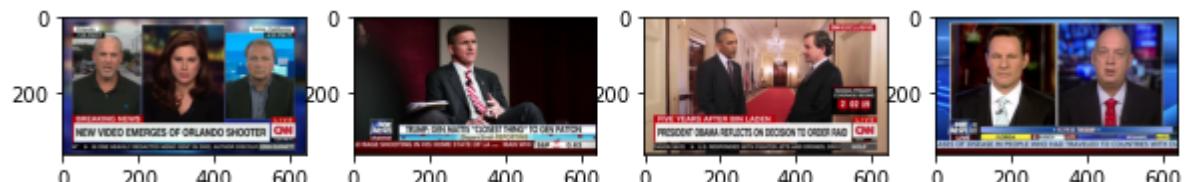
CLUSTER--&gt; 210 TOTAL IMAGES--&gt; 5



CLUSTER--&gt; 211 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 212 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 213 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 214 TOTAL IMAGES--&gt; 3



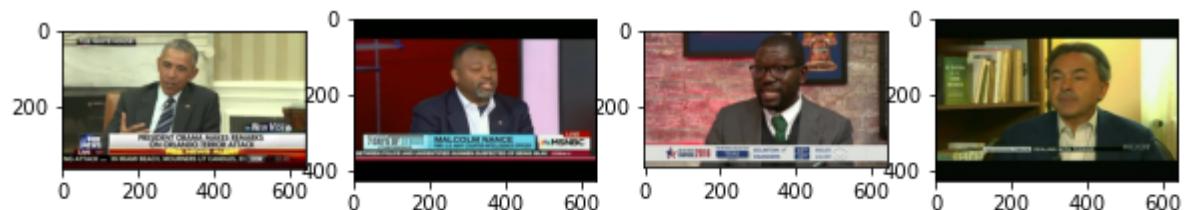
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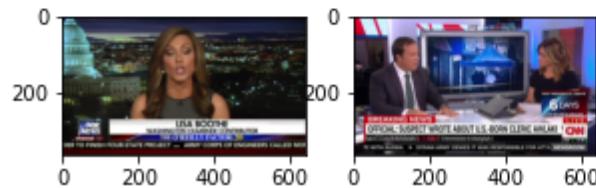
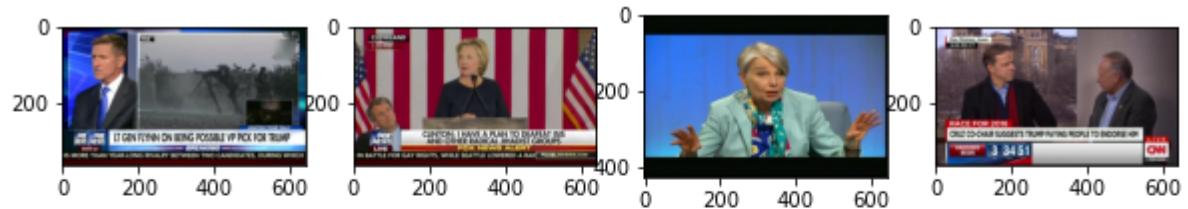
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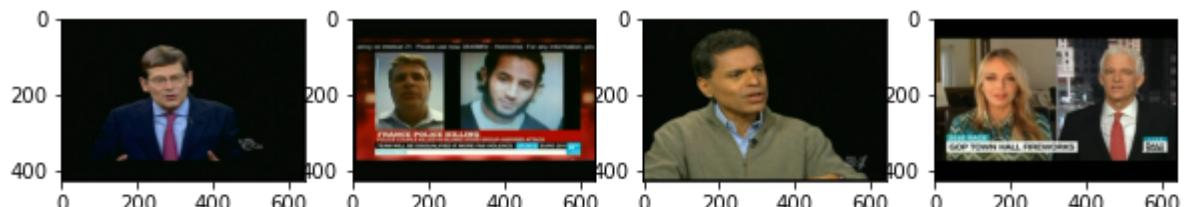
CLUSTER--&gt; 217 TOTAL IMAGES--&gt; 5



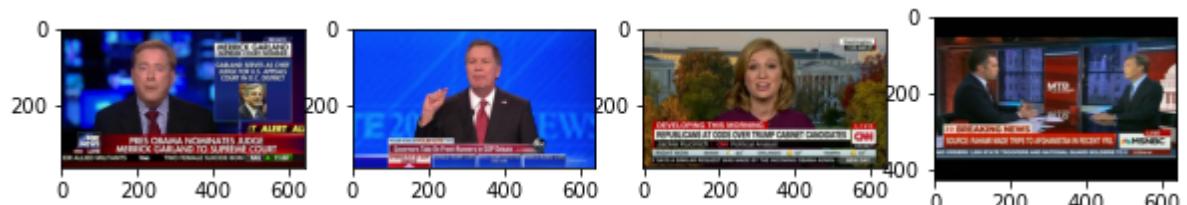
CLUSTER--> 218 TOTAL IMAGES--> 6



CLUSTER--> 219 TOTAL IMAGES--> 7



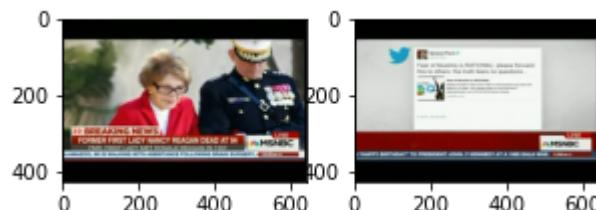
CLUSTER--> 220 TOTAL IMAGES--> 4



CLUSTER--> 221 TOTAL IMAGES--> 7



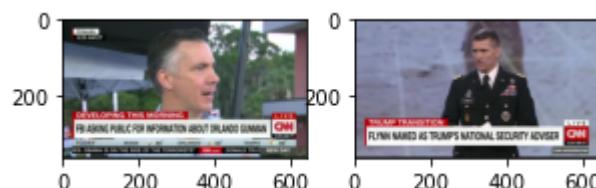
CLUSTER--> 222 TOTAL IMAGES--> 2



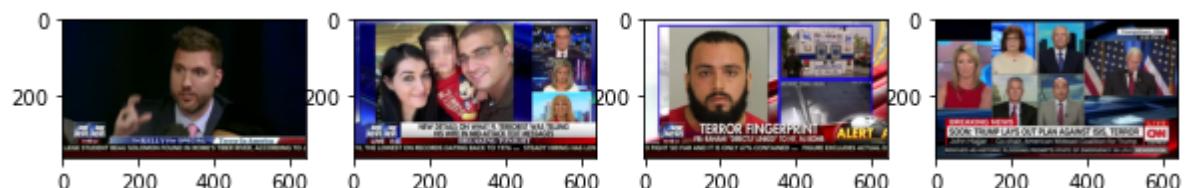
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CLUSTER--> 224 TOTAL IMAGES--> 2



CLUSTER--> 225 TOTAL IMAGES--> 4



CLUSTER--> 226 TOTAL IMAGES--> 2



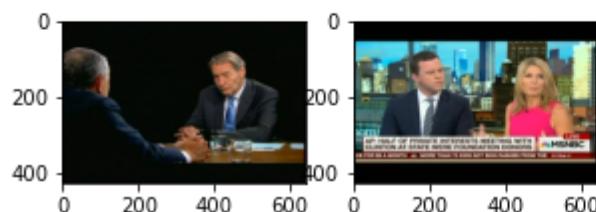
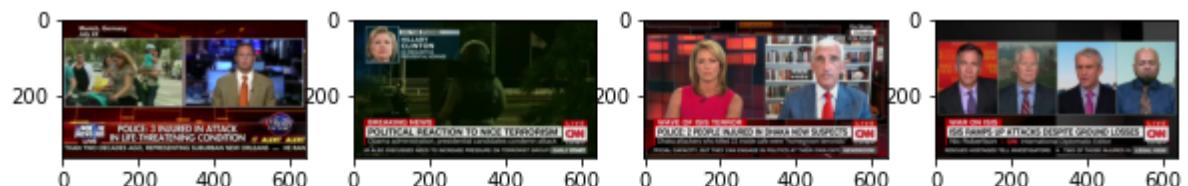
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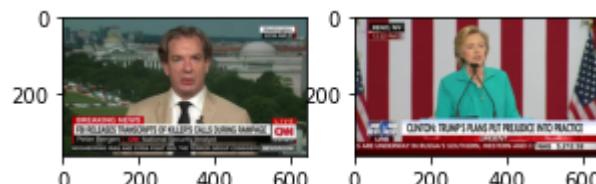
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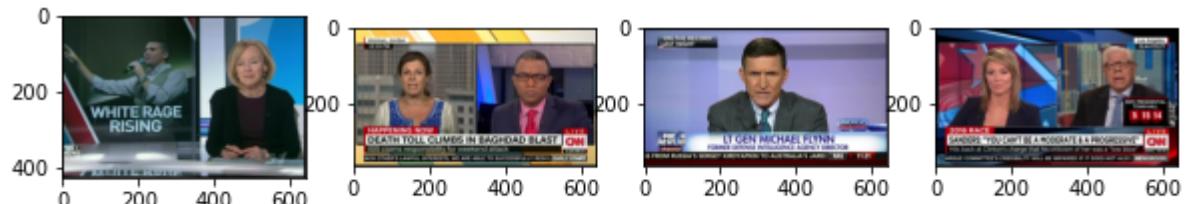
CLUSTER--> 229 TOTAL IMAGES--> 6



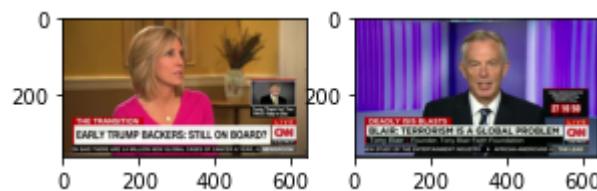
CLUSTER--> 230 TOTAL IMAGES--> 2



CLUSTER--> 231 TOTAL IMAGES--> 5



CLUSTER--> 232 TOTAL IMAGES--> 2



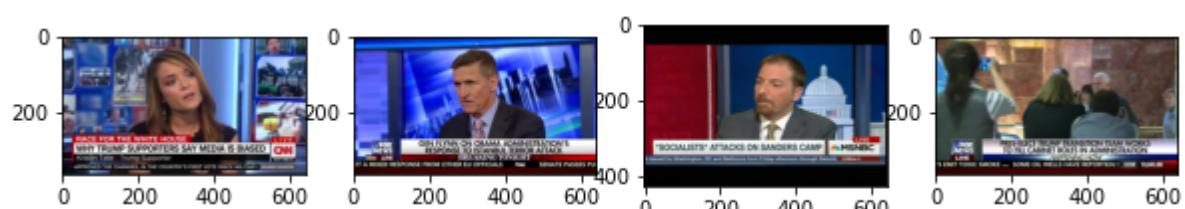
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CLUSTER--> 234 TOTAL IMAGES--> 3



CLUSTER--> 235 TOTAL IMAGES--> 4



CLUSTER--> 236 TOTAL IMAGES--> 3



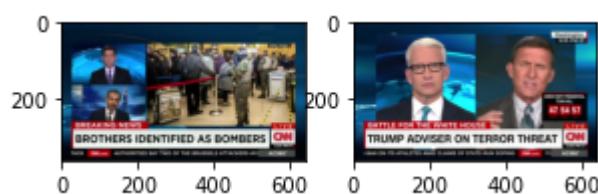
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CLUSTER--> 238 TOTAL IMAGES--> 5



CLUSTER--> 239 TOTAL IMAGES--> 2



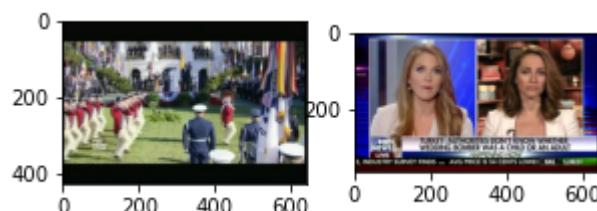
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CLUSTER--> 241 TOTAL IMAGES--> 4



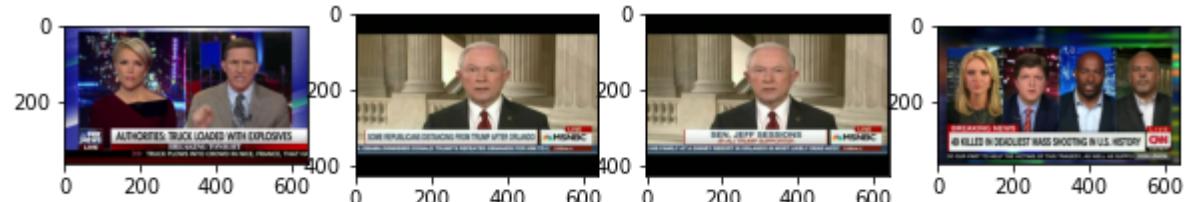
CLUSTER--> 242 TOTAL IMAGES--> 2



CLUSTER--> 243 TOTAL IMAGES--> 5



CLUSTER--> 244 TOTAL IMAGES--> 8



CLUSTER--> 245 TOTAL IMAGES--> 2



CLUSTER--> 246 TOTAL IMAGES--> 5



CLUSTER--> 247 TOTAL IMAGES--> 3



CLUSTER--> 248 TOTAL IMAGES--> 5



CLUSTER--> 249 TOTAL IMAGES--> 2



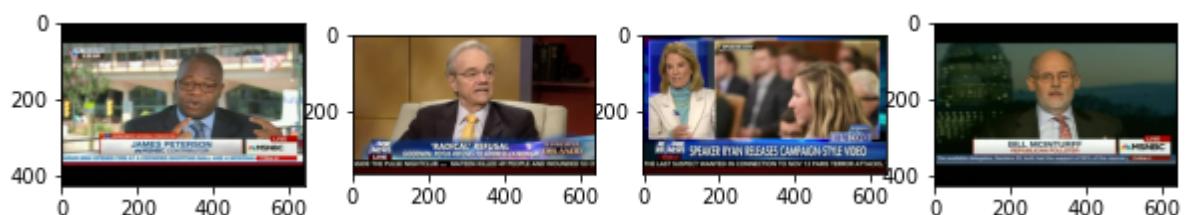
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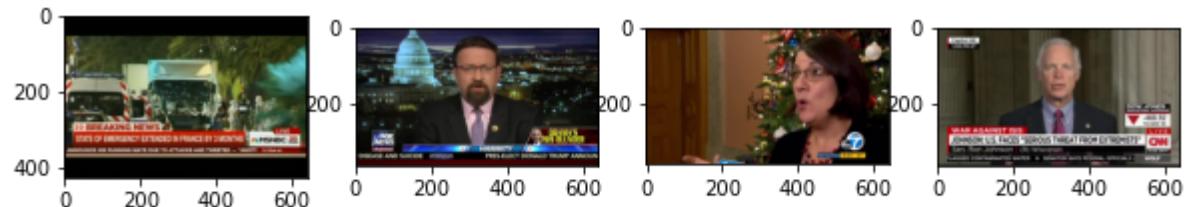
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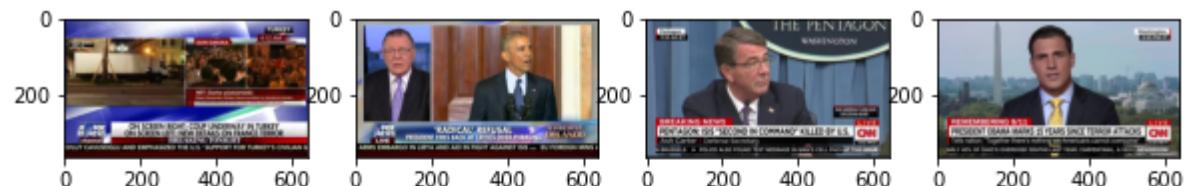
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CLUSTER--> 253 TOTAL IMAGES--> 5



CLUSTER--> 254 TOTAL IMAGES--> 5



CLUSTER--> 255 TOTAL IMAGES--> 5



CLUSTER--> 256 TOTAL IMAGES--> 3



CLUSTER--> 257 TOTAL IMAGES--> 2



CLUSTER--> 258 TOTAL IMAGES--> 4



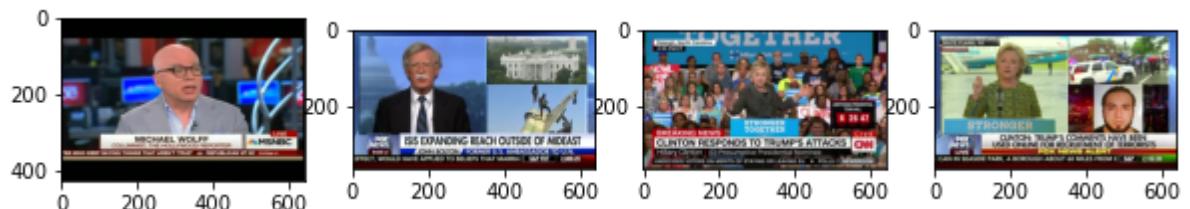
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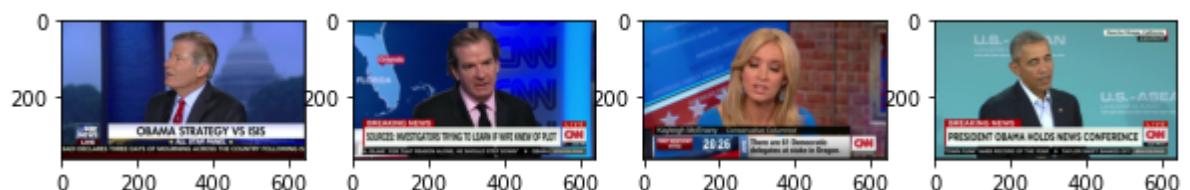
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CLUSTER--&gt; 261 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 262 TOTAL IMAGES--&gt; 4



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CLUSTER--&gt; 264 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 265 TOTAL IMAGES--&gt; 5



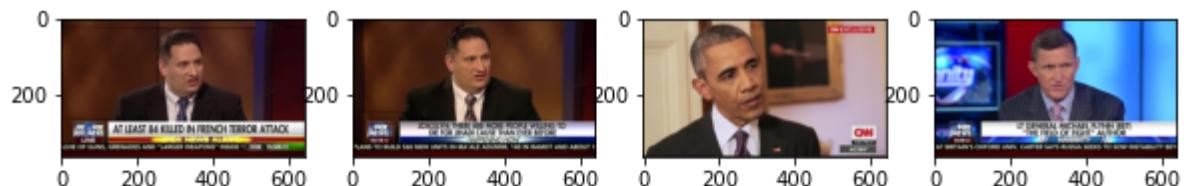
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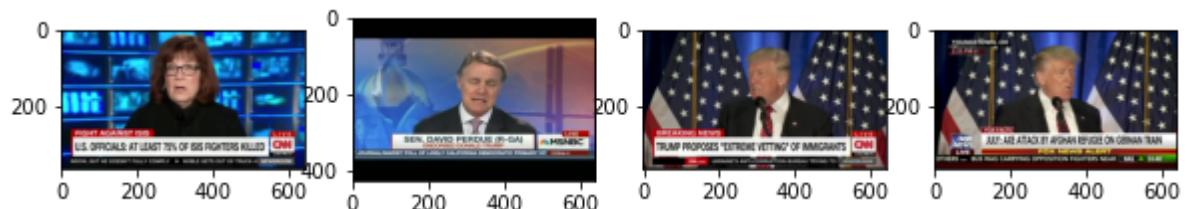
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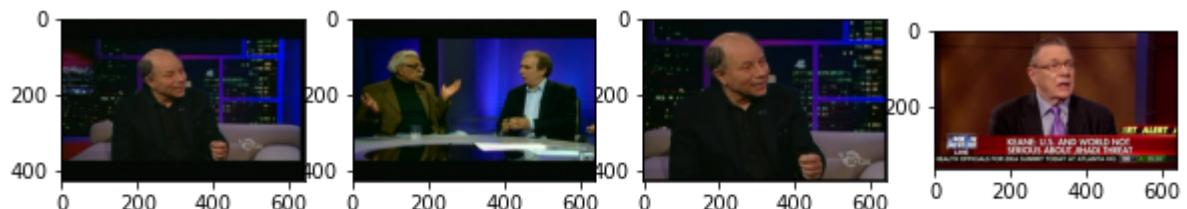
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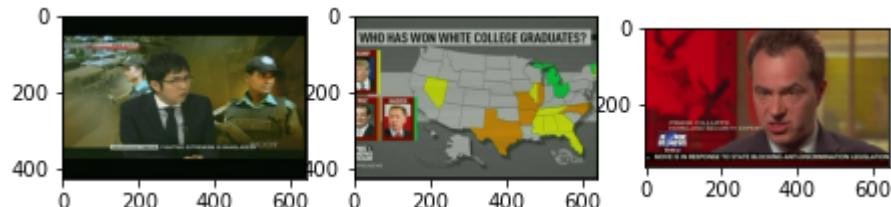
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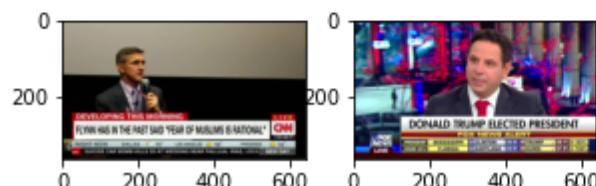
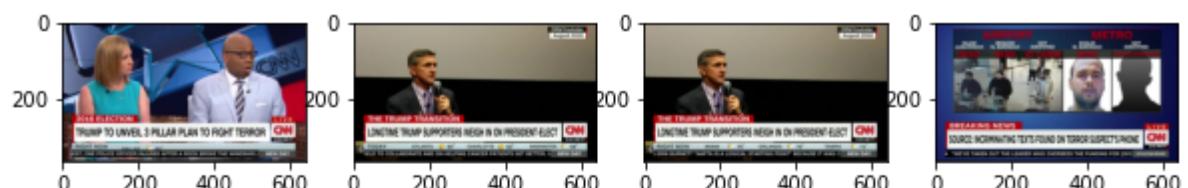
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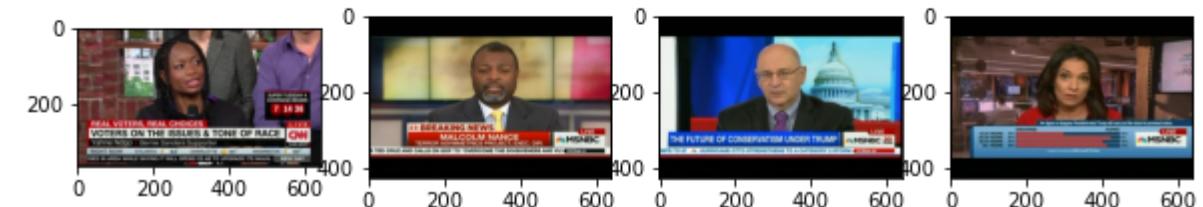
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CLUSTER--> 273 TOTAL IMAGES--> 6



CLUSTER--> 274 TOTAL IMAGES--> 8



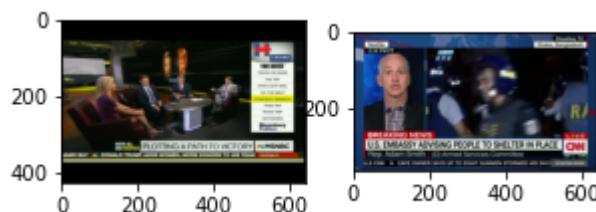
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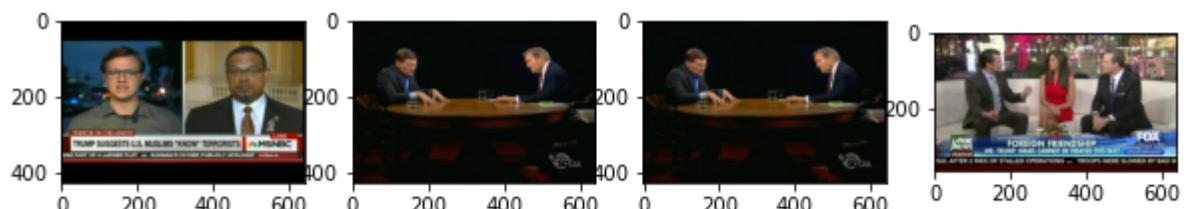
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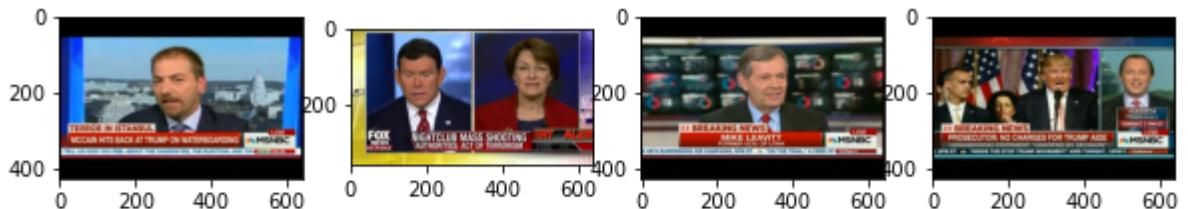
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CLUSTER--> 279 TOTAL IMAGES--> 3



CLUSTER--> 280 TOTAL IMAGES--> 5



CLUSTER--> 281 TOTAL IMAGES--> 3



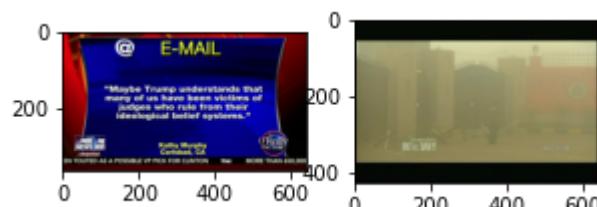
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CLUSTER--> 283 TOTAL IMAGES--> 7



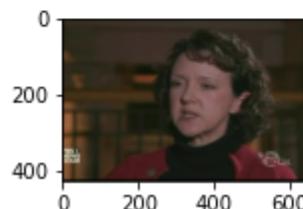
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CLUSTER--> 285 TOTAL IMAGES--> 5



CLUSTER--> 286 TOTAL IMAGES--> 5



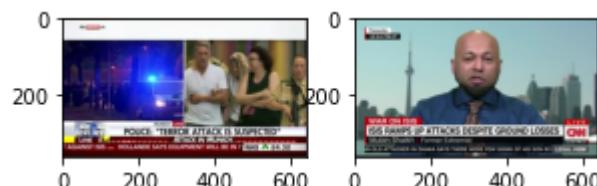
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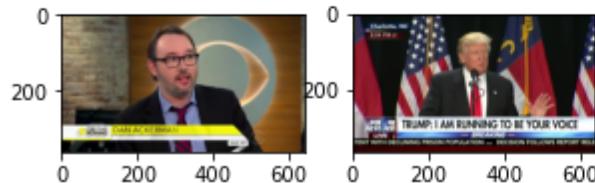
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CLUSTER--> 291 TOTAL IMAGES--> 6



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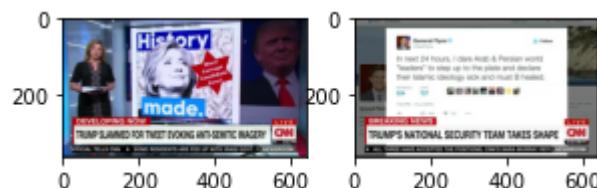
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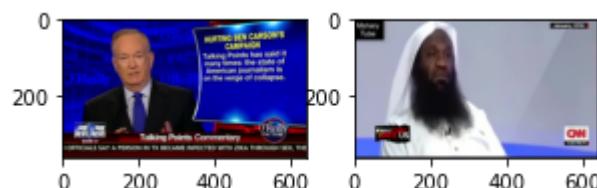
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CLUSTER--> 295 TOTAL IMAGES--> 2



CLUSTER--> 296 TOTAL IMAGES--> 2



CLUSTER--> 297 TOTAL IMAGES--> 4



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CLUSTER--> 299 TOTAL IMAGES--> 3



CLUSTER--> 300 TOTAL IMAGES--> 3



CLUSTER--&gt; 301 TOTAL IMAGES--&gt; 4



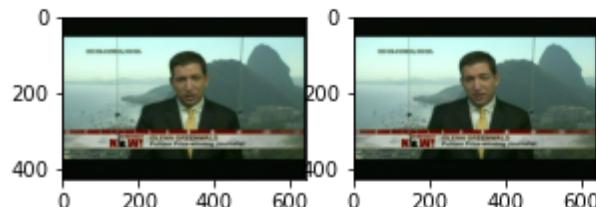
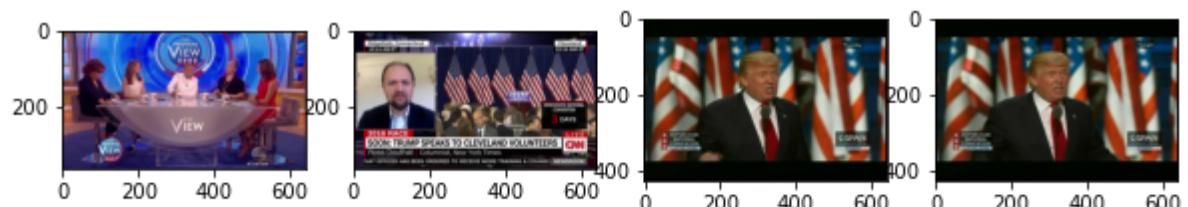
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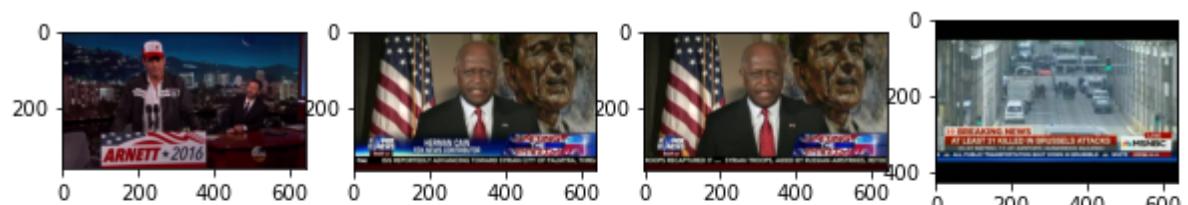
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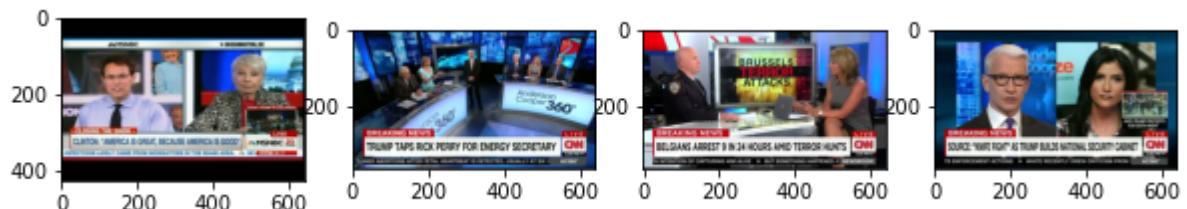
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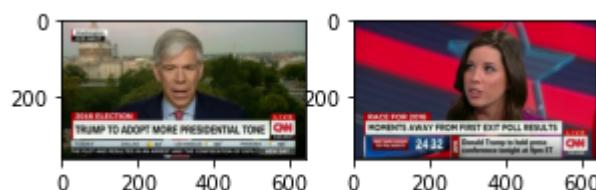
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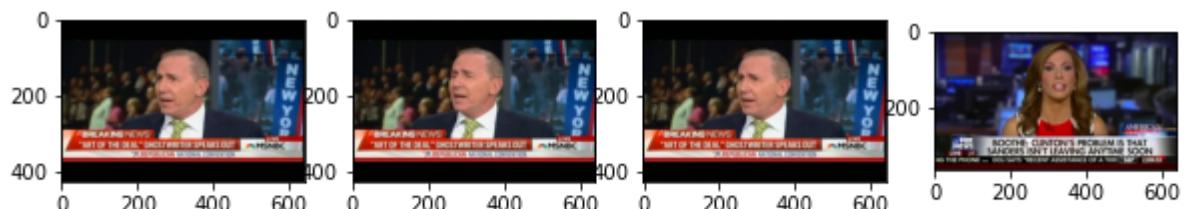
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CLUSTER--&gt; 309 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 310 TOTAL IMAGES--&gt; 5



CLUSTER--&gt; 311 TOTAL IMAGES--&gt; 3



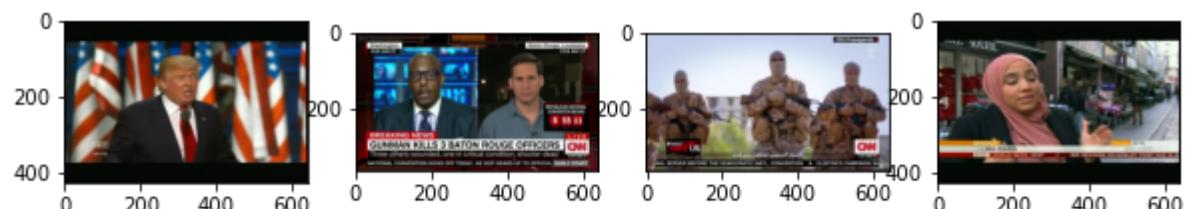
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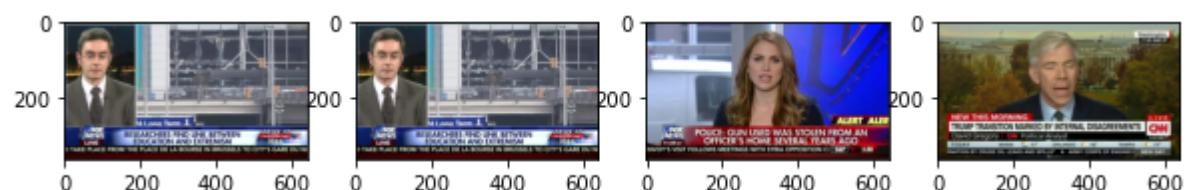
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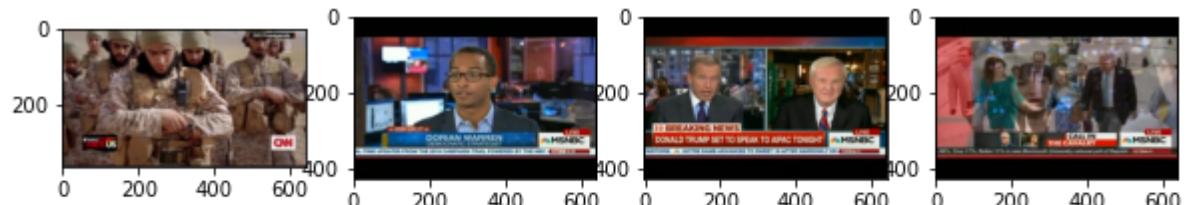
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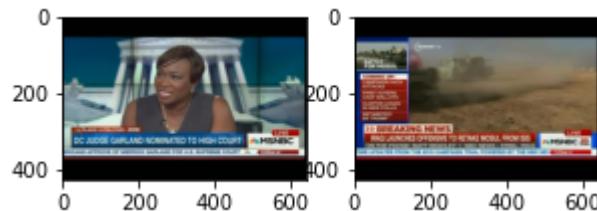
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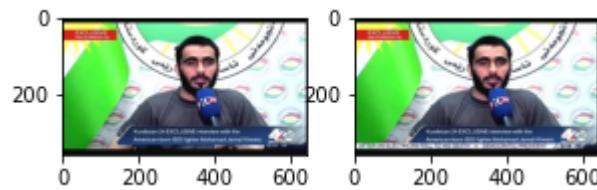
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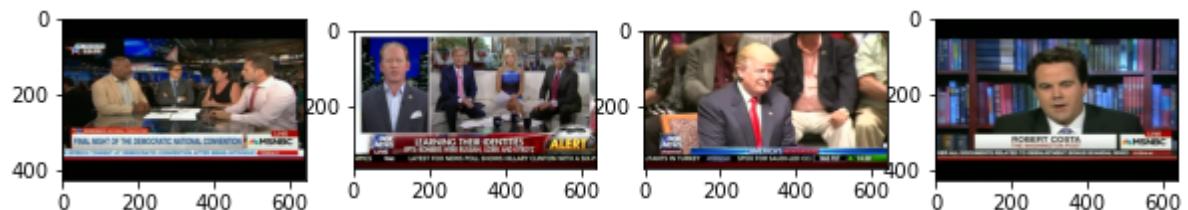
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CLUSTER--> 319 TOTAL IMAGES--> 2



CLUSTER--> 320 TOTAL IMAGES--> 4



CLUSTER--> 321 TOTAL IMAGES--> 3



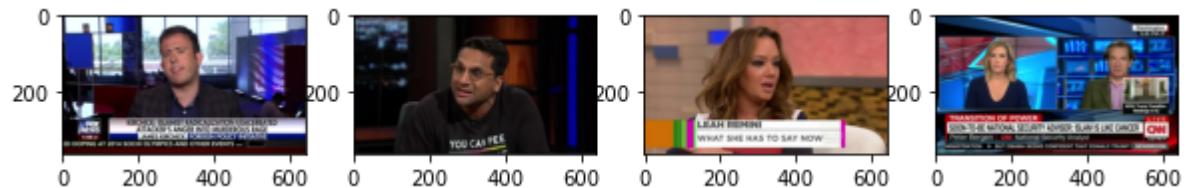
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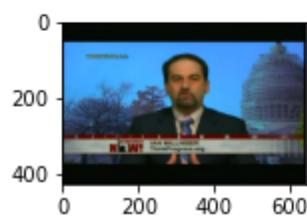
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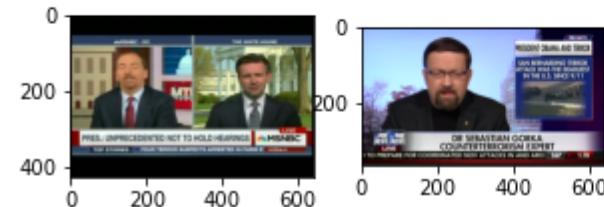
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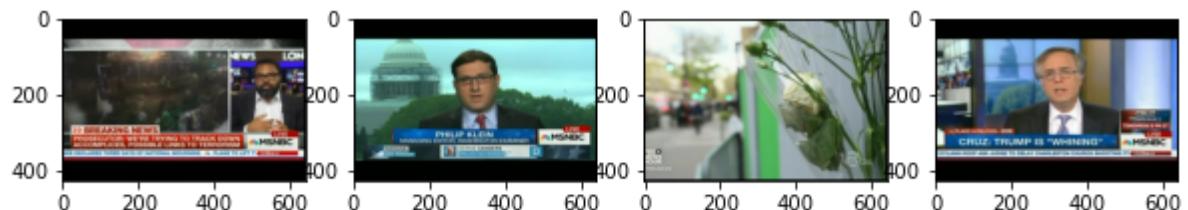
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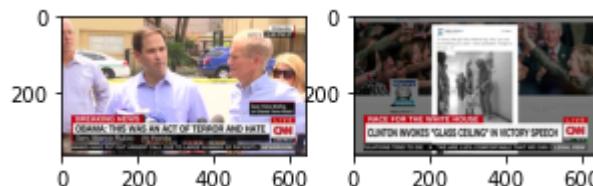
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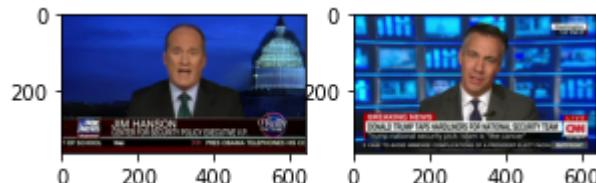
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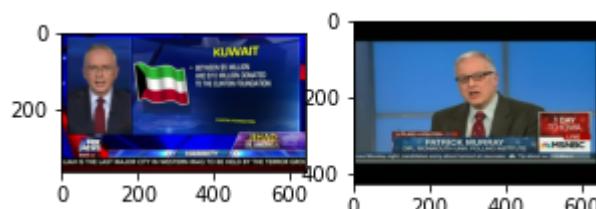
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CLUSTER--&gt; 344 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 345 TOTAL IMAGES--&gt; 5