

```
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]: %%javascript
IPython.OutputArea.auto_scroll_threshold = 9999;
```

```
In [3]: 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[3]: 2942
```

```
In [4]: 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 [5]: 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 [6]: results_df=pd.read_csv('D://Himani-work/gsoc2020/code/image-results-hier/ideology_model_xception.npy-pca.csv')
results_df
```

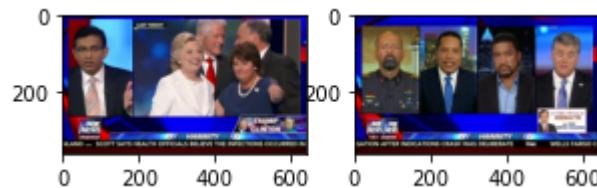
Out[6]:

		Unnamed: 0	n_clusters	silhouette	calinski	davies
0		Birch	2504	0.142656	50.222051	0.290952
1	Agglomerative clustering		1545	0.204685	21.875708	0.752172

Visualizing only agglomerative clustering results as number of clusters <2500

```
In [7]: predicted_Labels=np.load('D://Himani-work/gsoc2020/code/image-results-hier/ide  
ology_model_xception.npy-pca_agg_labels.npy')  
unique_labels=set(predicted_Labels)  
for label in unique_labels:  
    if(label!=-1):  
        showClustering(predicted_Labels,label)
```

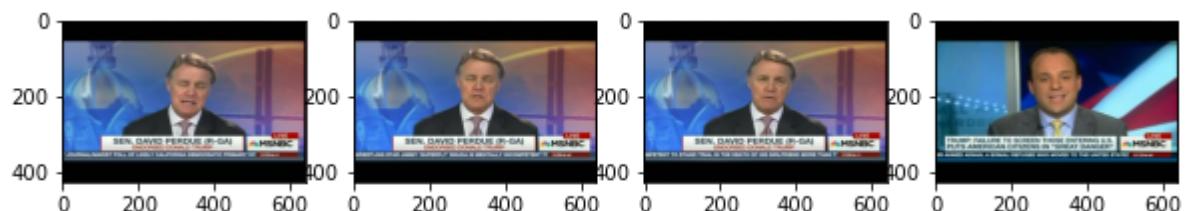
CLUSTER--> 0 TOTAL IMAGES--> 2



CLUSTER--> 1 TOTAL IMAGES--> 3



CLUSTER--> 2 TOTAL IMAGES--> 4



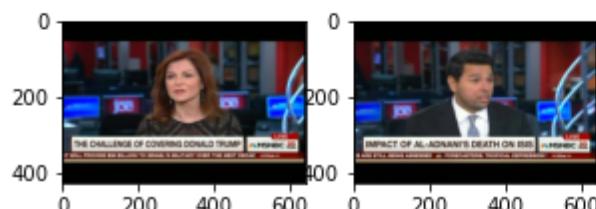
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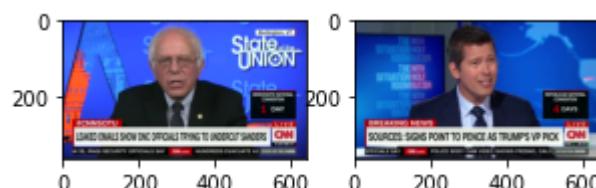
CLUSTER--> 4 TOTAL IMAGES--> 3



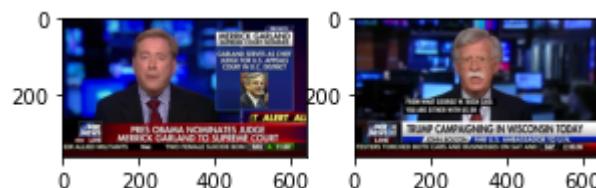
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CLUSTER--> 6 TOTAL IMAGES--> 2



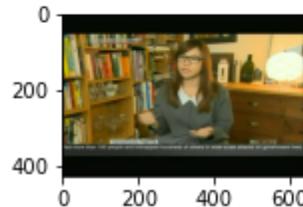
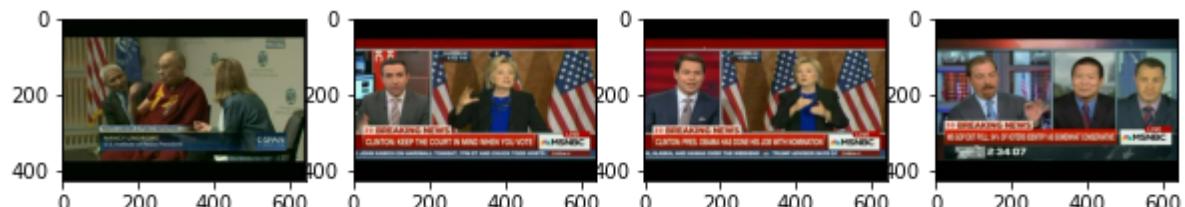
CLUSTER--> 7 TOTAL IMAGES--> 2



CLUSTER--> 8 TOTAL IMAGES--> 3



CLUSTER--> 9 TOTAL IMAGES--> 5



CLUSTER--> 10 TOTAL IMAGES--> 2



CLUSTER--> 11 TOTAL IMAGES--> 2



CLUSTER--> 12 TOTAL IMAGES--> 4



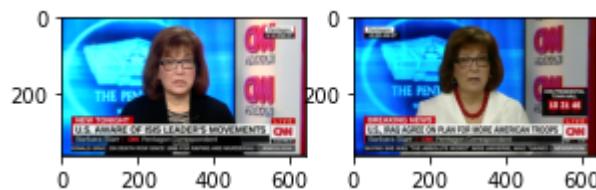
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CLUSTER--> 14 TOTAL IMAGES--> 4



CLUSTER--> 15 TOTAL IMAGES--> 2



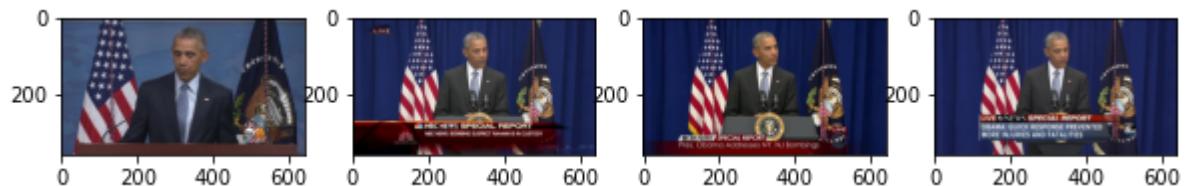
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CLUSTER--> 17 TOTAL IMAGES--> 5



CLUSTER--> 18 TOTAL IMAGES--> 4



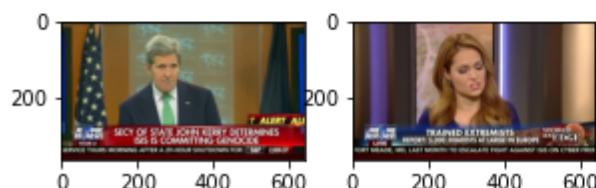
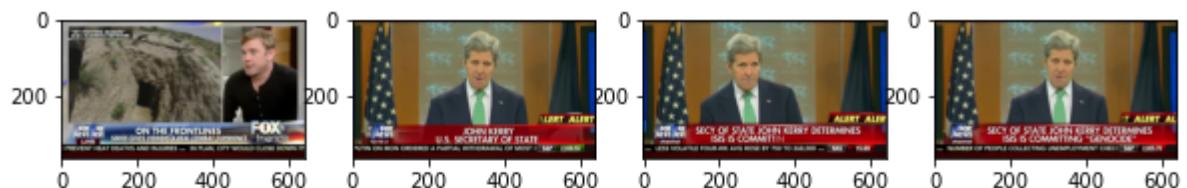
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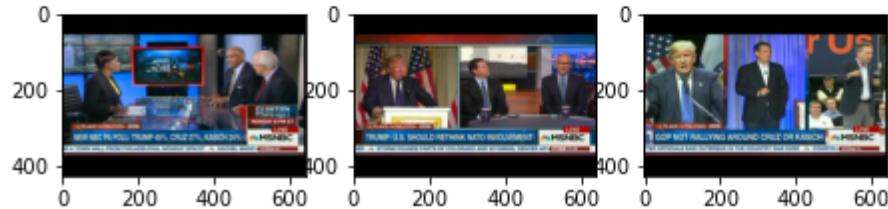
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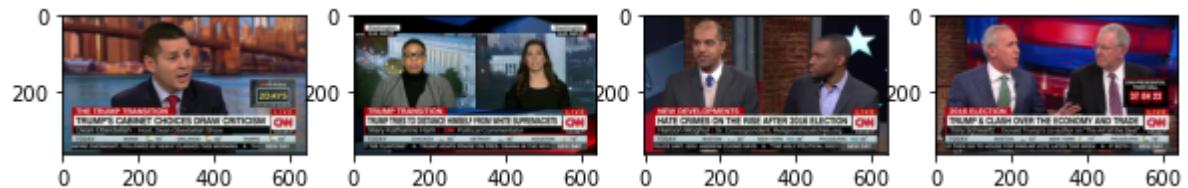
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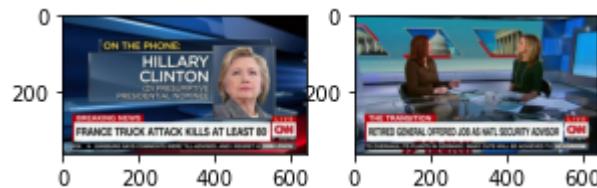
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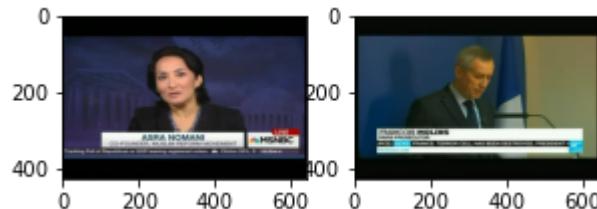
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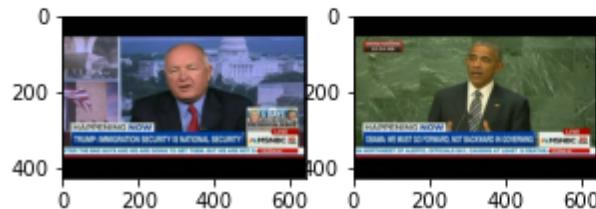
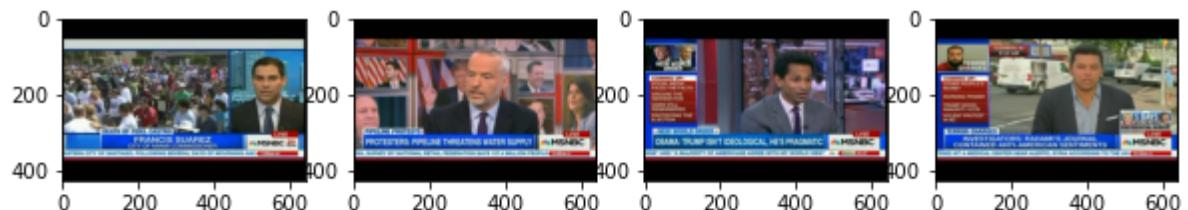
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CLUSTER--> 25 TOTAL IMAGES--> 2



CLUSTER--> 26 TOTAL IMAGES--> 6



CLUSTER--> 27 TOTAL IMAGES--> 2



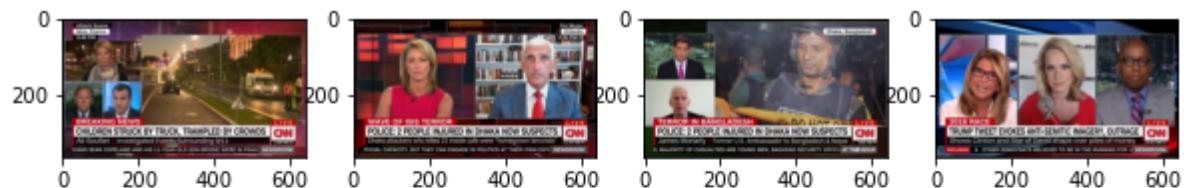
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CLUSTER--> 29 TOTAL IMAGES--> 7



CLUSTER--> 30 TOTAL IMAGES--> 5



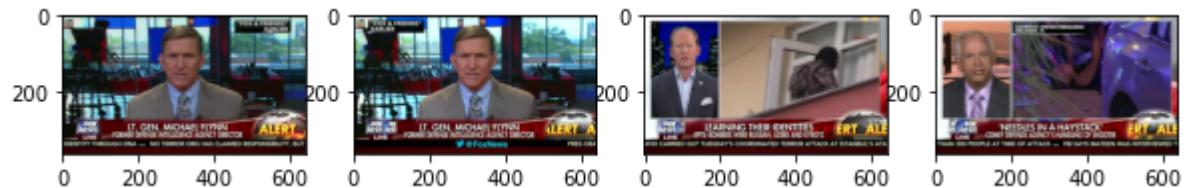
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CLUSTER--> 32 TOTAL IMAGES--> 3



CLUSTER--> 33 TOTAL IMAGES--> 4



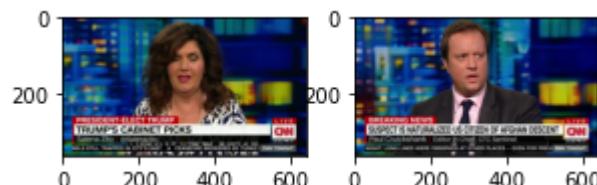
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CLUSTER--> 35 TOTAL IMAGES--> 3



CLUSTER--> 36 TOTAL IMAGES--> 2



CLUSTER--> 37 TOTAL IMAGES--> 3



CLUSTER--> 38 TOTAL IMAGES--> 4



CLUSTER--> 39 TOTAL IMAGES--> 2



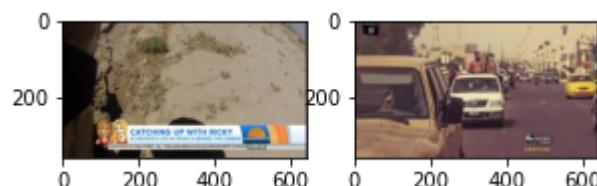
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CLUSTER--> 41 TOTAL IMAGES--> 4



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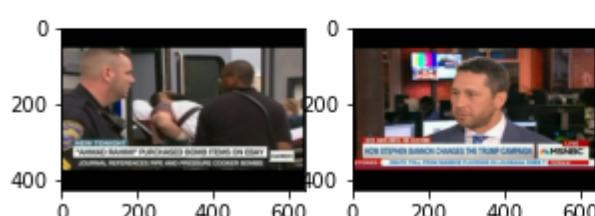
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CLUSTER--> 44 TOTAL IMAGES--> 4



CLUSTER--> 45 TOTAL IMAGES--> 6



CLUSTER--> 46 TOTAL IMAGES--> 2



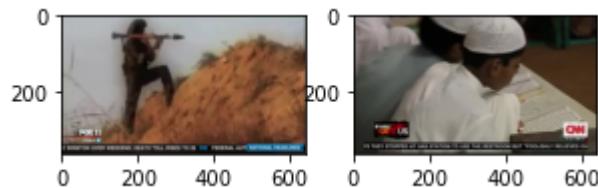
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CLUSTER--> 49 TOTAL IMAGES--> 2



CLUSTER--> 50 TOTAL IMAGES--> 7



CLUSTER--> 51 TOTAL IMAGES--> 5



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CLUSTER--> 53 TOTAL IMAGES--> 4



CLUSTER--> 54 TOTAL IMAGES--> 2



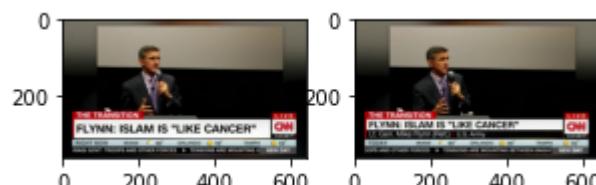
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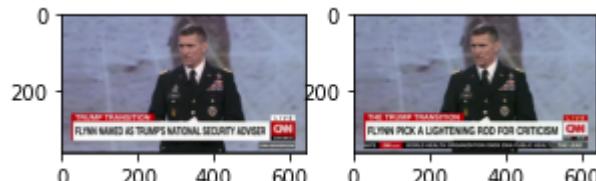
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CLUSTER--> 57 TOTAL IMAGES--> 2



CLUSTER--> 58 TOTAL IMAGES--> 2



CLUSTER--> 59 TOTAL IMAGES--> 2



CLUSTER--> 60 TOTAL IMAGES--> 3



CLUSTER--> 61 TOTAL IMAGES--> 4



CLUSTER--> 62 TOTAL IMAGES--> 3



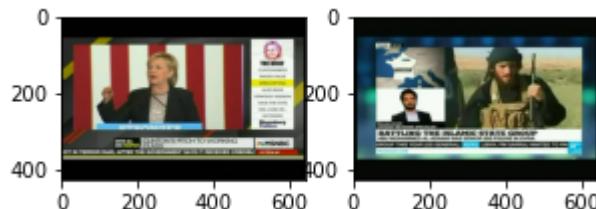
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CLUSTER--> 64 TOTAL IMAGES--> 4



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CLUSTER--> 67 TOTAL IMAGES--> 2



CLUSTER--> 68 TOTAL IMAGES--> 2



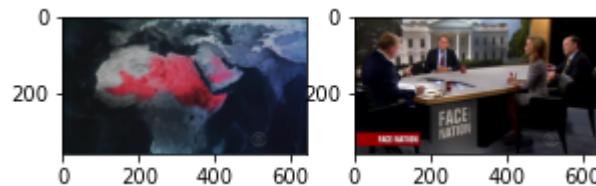
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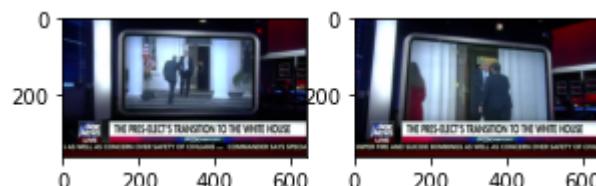
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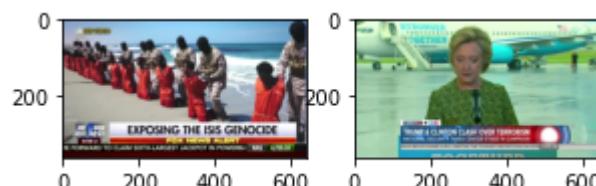
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CLUSTER--> 72 TOTAL IMAGES--> 2



CLUSTER--> 73 TOTAL IMAGES--> 2



CLUSTER--> 74 TOTAL IMAGES--> 2



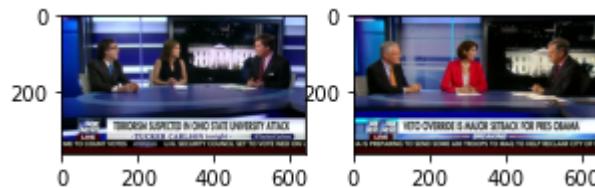
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CLUSTER--> 77 TOTAL IMAGES--> 2



CLUSTER--> 78 TOTAL IMAGES--> 3



CLUSTER--> 79 TOTAL IMAGES--> 3



CLUSTER--> 80 TOTAL IMAGES--> 3



CLUSTER--> 81 TOTAL IMAGES--> 3



CLUSTER--> 82 TOTAL IMAGES--> 3



CLUSTER--&gt; 83 TOTAL IMAGES--&gt; 5



CLUSTER--&gt; 84 TOTAL IMAGES--&gt; 4



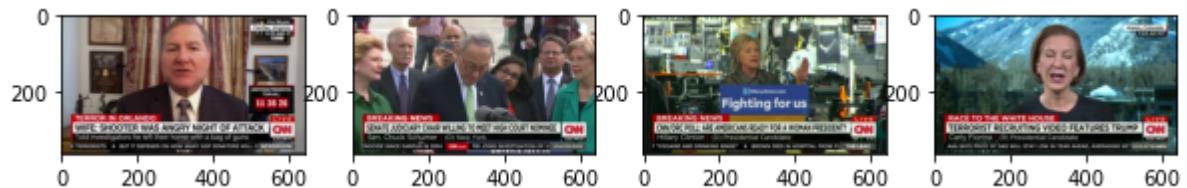
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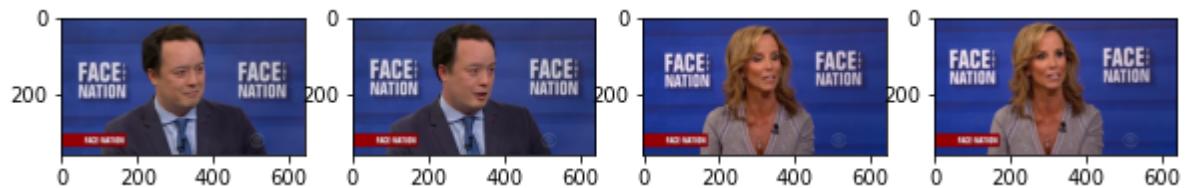
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CLUSTER--&gt; 87 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 88 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 89 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 90 TOTAL IMAGES--&gt; 4



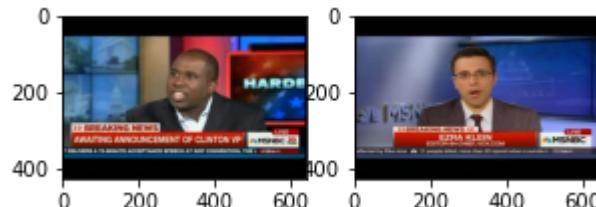
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CLUSTER--&gt; 92 TOTAL IMAGES--&gt; 2



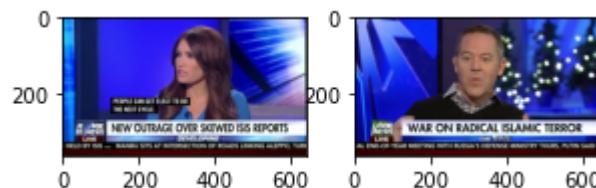
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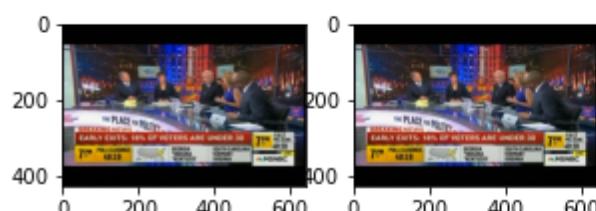
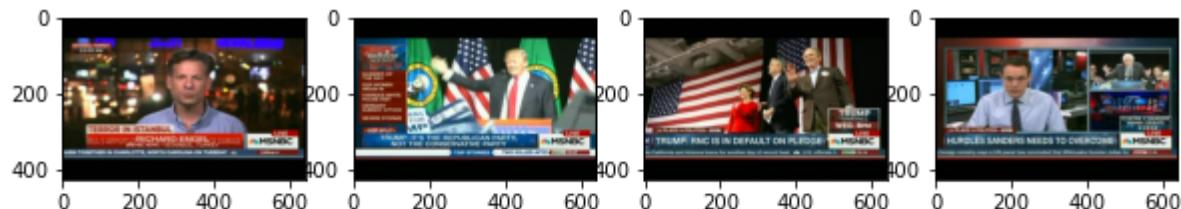
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CLUSTER--> 95 TOTAL IMAGES--> 2



CLUSTER--> 96 TOTAL IMAGES--> 6



CLUSTER--> 97 TOTAL IMAGES--> 3



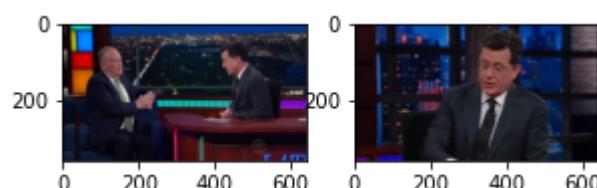
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CLUSTER--&gt; 99 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 100 TOTAL IMAGES--&gt; 2



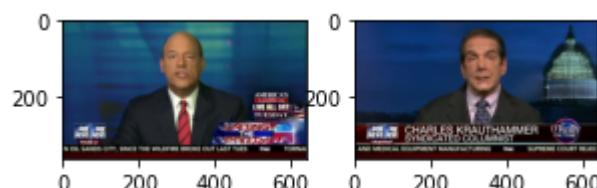
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CLUSTER--&gt; 102 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 103 TOTAL IMAGES--&gt; 2



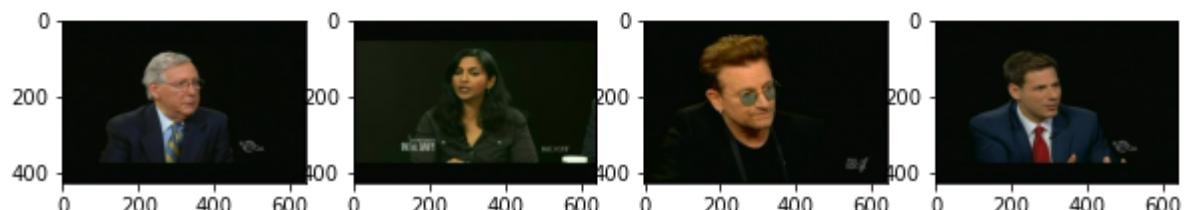
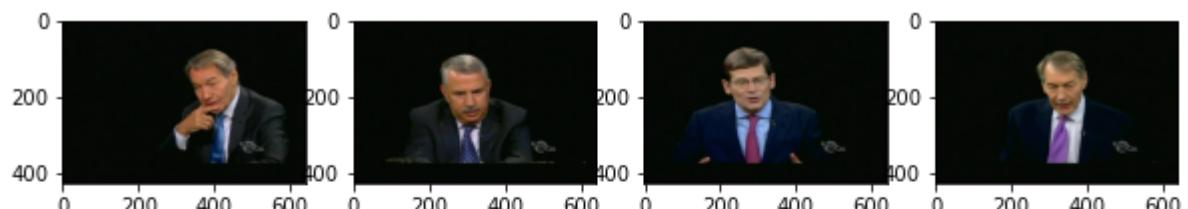
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CLUSTER--> 105 TOTAL IMAGES--> 2



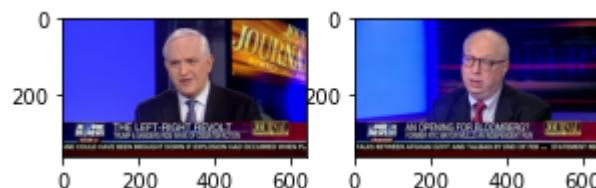
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CLUSTER--> 107 TOTAL IMAGES--> 2



CLUSTER--> 108 TOTAL IMAGES--> 2



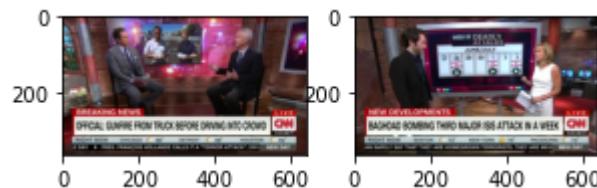
CLUSTER--&gt; 109 TOTAL IMAGES--&gt; 3



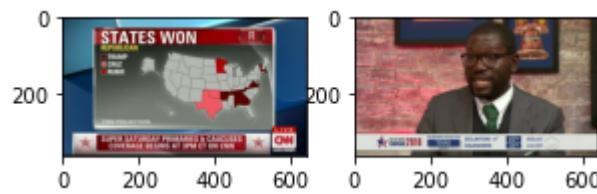
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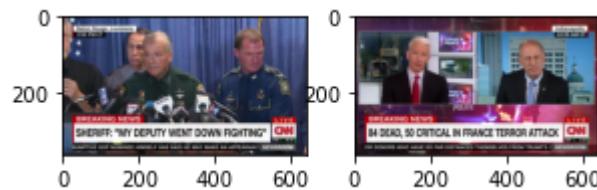
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CLUSTER--&gt; 112 TOTAL IMAGES--&gt; 2



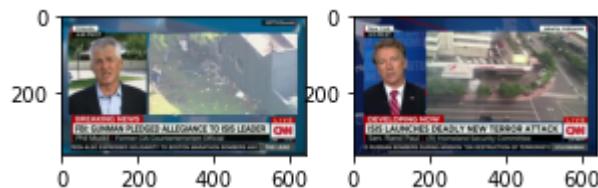
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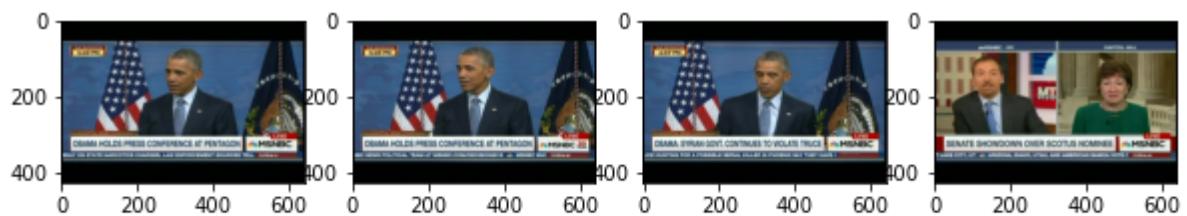
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CLUSTER--&gt; 115 TOTAL IMAGES--&gt; 2



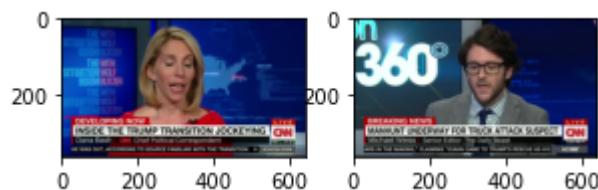
CLUSTER--&gt; 116 TOTAL IMAGES--&gt; 6



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CLUSTER--&gt; 118 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 119 TOTAL IMAGES--&gt; 4



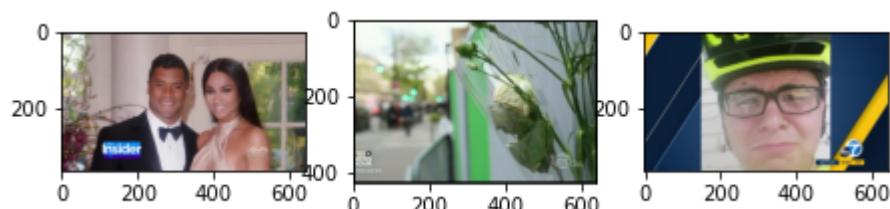
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CLUSTER--&gt; 121 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 122 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 123 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 124 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 125 TOTAL IMAGES--&gt; 2



CLUSTER--> 126 TOTAL IMAGES--> 3



CLUSTER--> 127 TOTAL IMAGES--> 2



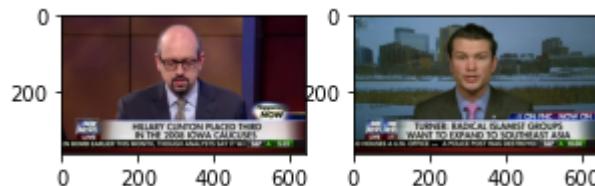
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CLUSTER--> 129 TOTAL IMAGES--> 2



CLUSTER--> 130 TOTAL IMAGES--> 2



CLUSTER--> 131 TOTAL IMAGES--> 3



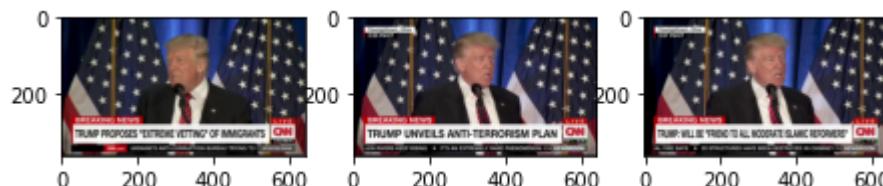
CLUSTER--&gt; 132 TOTAL IMAGES--&gt; 3



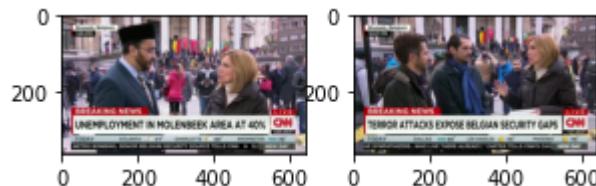
CLUSTER--&gt; 133 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 134 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 135 TOTAL IMAGES--&gt; 2



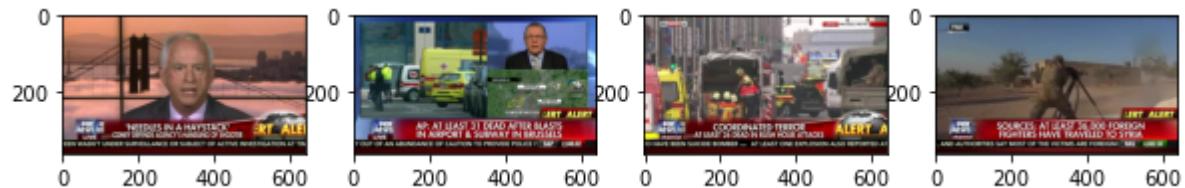
CLUSTER--&gt; 136 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 137 TOTAL IMAGES--&gt; 3



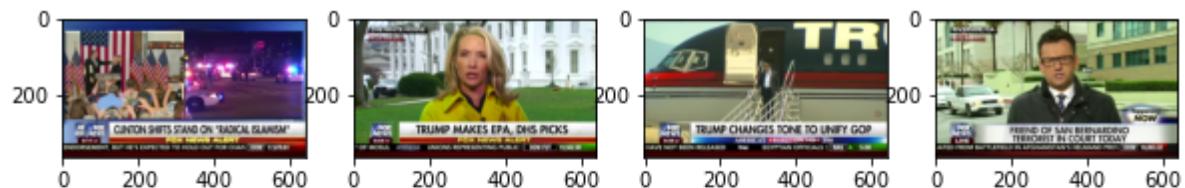
CLUSTER--&gt; 138 TOTAL IMAGES--&gt; 4



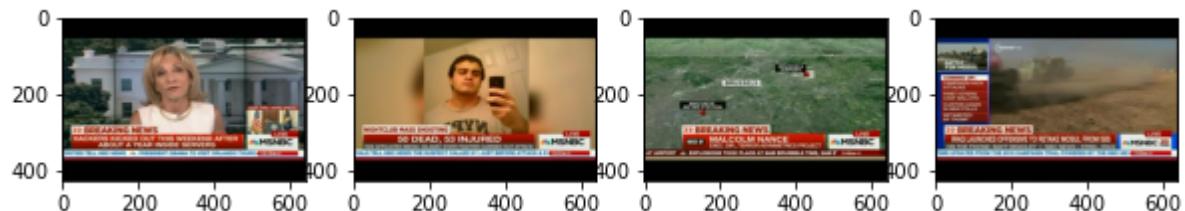
CLUSTER--&gt; 139 TOTAL IMAGES--&gt; 4



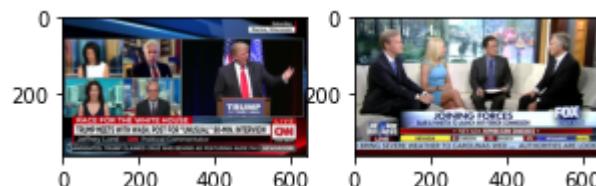
CLUSTER--&gt; 140 TOTAL IMAGES--&gt; 5



CLUSTER--&gt; 141 TOTAL IMAGES--&gt; 4



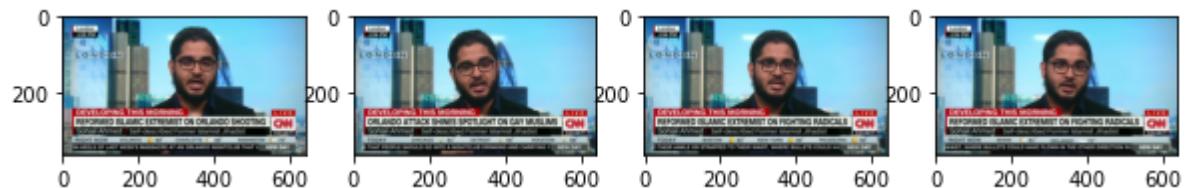
CLUSTER--&gt; 142 TOTAL IMAGES--&gt; 2



CLUSTER--> 143 TOTAL IMAGES--> 3



CLUSTER--> 144 TOTAL IMAGES--> 4



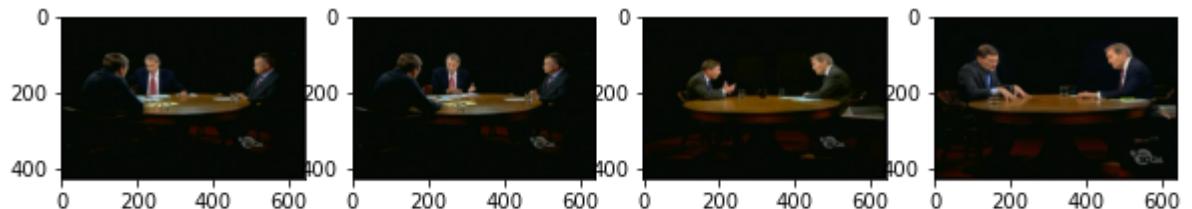
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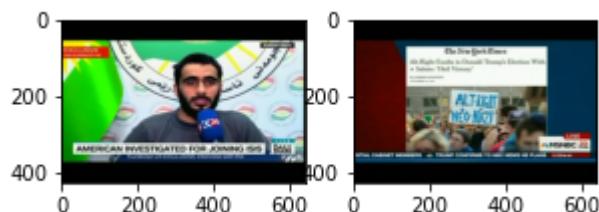
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CLUSTER--> 147 TOTAL IMAGES--> 5



CLUSTER--> 148 TOTAL IMAGES--> 2



CLUSTER--> 149 TOTAL IMAGES--> 2



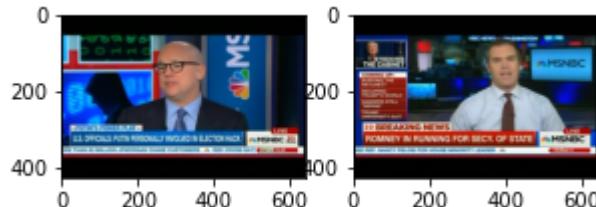
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CLUSTER--> 151 TOTAL IMAGES--> 2



CLUSTER--> 152 TOTAL IMAGES--> 2



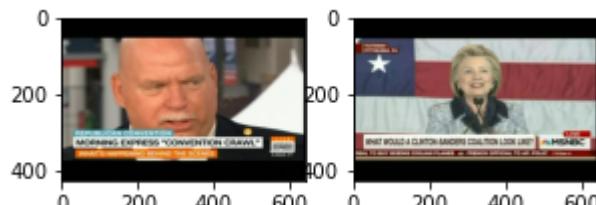
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CLUSTER--> 154 TOTAL IMAGES--> 2



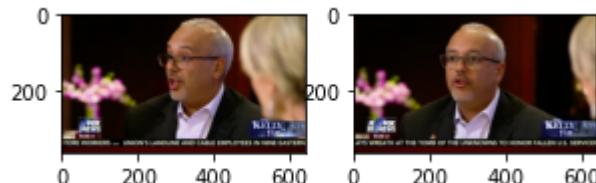
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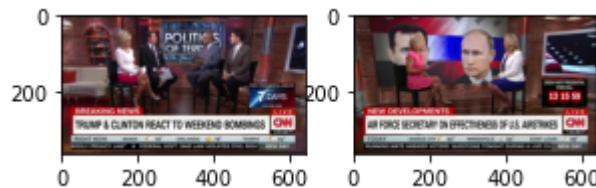
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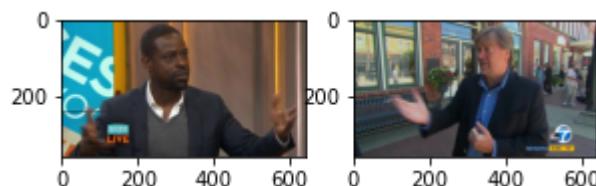
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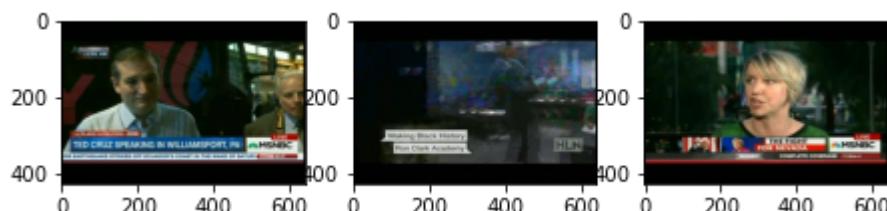
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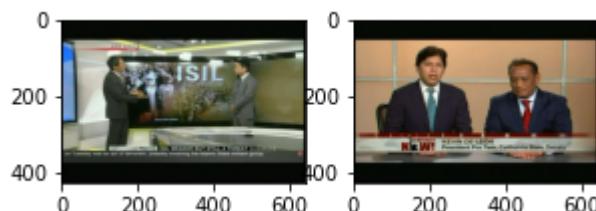
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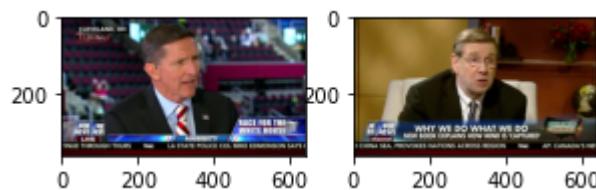
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CLUSTER--> 161 TOTAL IMAGES--> 2



CLUSTER--> 162 TOTAL IMAGES--> 2



CLUSTER--> 163 TOTAL IMAGES--> 4



CLUSTER--> 164 TOTAL IMAGES--> 3



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CLUSTER--> 166 TOTAL IMAGES--> 5



CLUSTER--> 167 TOTAL IMAGES--> 3



CLUSTER--> 168 TOTAL IMAGES--> 2



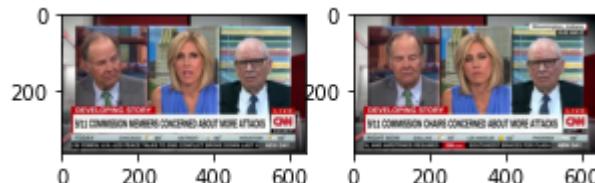
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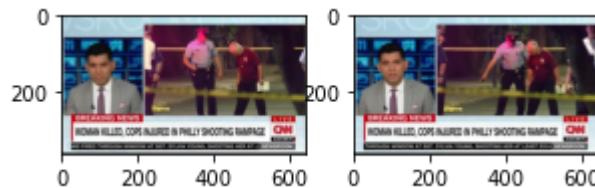
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CLUSTER--> 171 TOTAL IMAGES--> 2



CLUSTER--> 172 TOTAL IMAGES--> 2



CLUSTER--> 173 TOTAL IMAGES--> 3



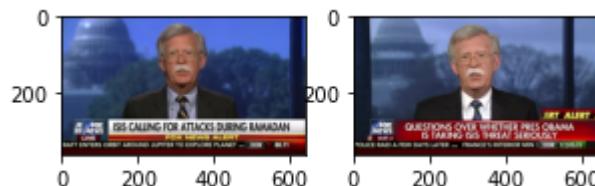
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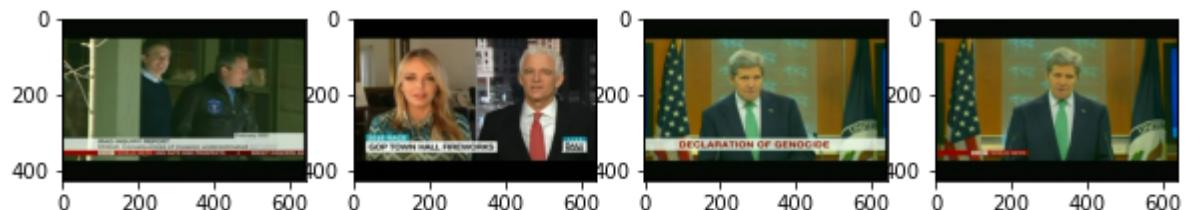
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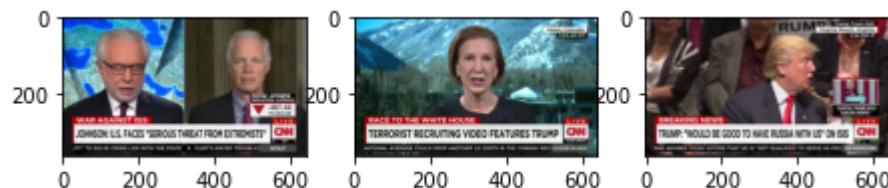
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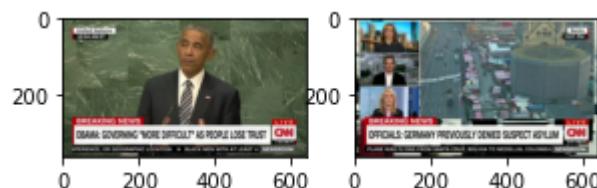
CLUSTER--> 177 TOTAL IMAGES--> 5



CLUSTER--> 178 TOTAL IMAGES--> 3



CLUSTER--> 179 TOTAL IMAGES--> 2



CLUSTER--> 180 TOTAL IMAGES--> 3



CLUSTER--> 181 TOTAL IMAGES--> 4



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CLUSTER--&gt; 183 TOTAL IMAGES--&gt; 3



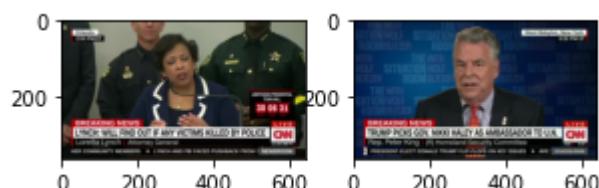
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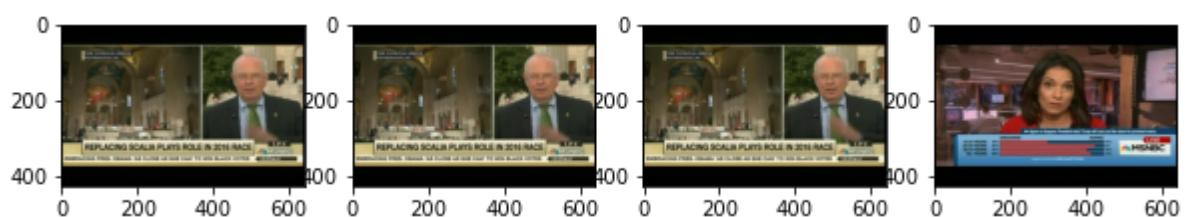
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CLUSTER--&gt; 186 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 187 TOTAL IMAGES--&gt; 4



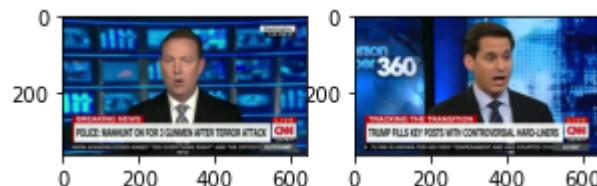
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CLUSTER--&gt; 189 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 190 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 191 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 192 TOTAL IMAGES--&gt; 4



CLUSTER--&gt; 193 TOTAL IMAGES--&gt; 3



CLUSTER--&gt; 194 TOTAL IMAGES--&gt; 2



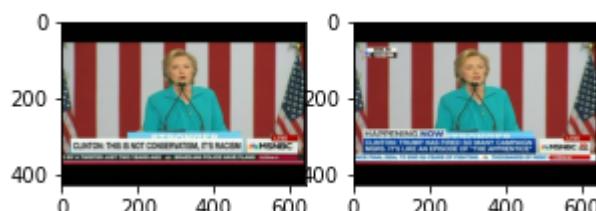
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CLUSTER--> 197 TOTAL IMAGES--> 2



CLUSTER--> 198 TOTAL IMAGES--> 3



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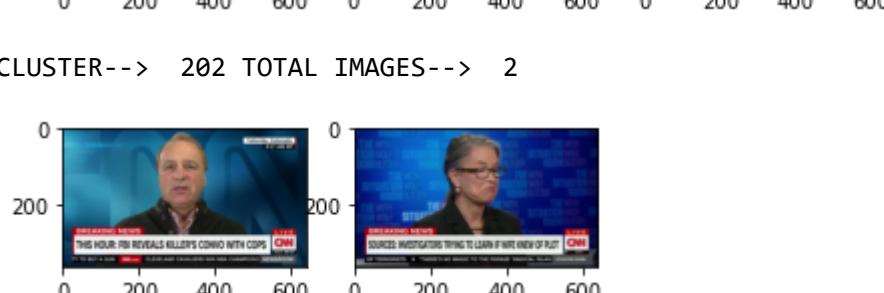
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CLUSTER--> 201 TOTAL IMAGES--> 7



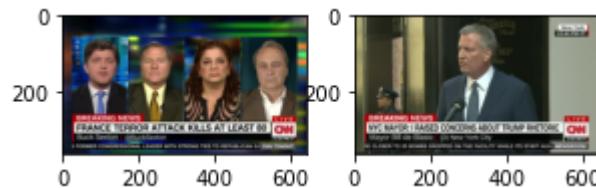
**OBAMA & CANADIAN PM TAKE QUESTIONS** | **MHSPEC**



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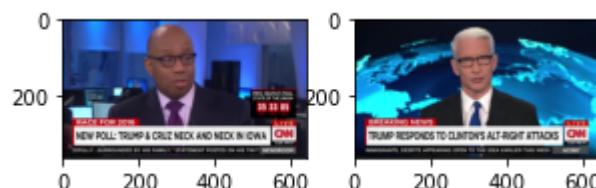
CLUSTER--> 204 TOTAL IMAGES--> 2



CLUSTER--> 205 TOTAL IMAGES--> 4



CLUSTER--> 206 TOTAL IMAGES--> 2



CLUSTER--> 207 TOTAL IMAGES--> 5



CLUSTER--> 208 TOTAL IMAGES--> 2



CLUSTER--> 209 TOTAL IMAGES--> 2



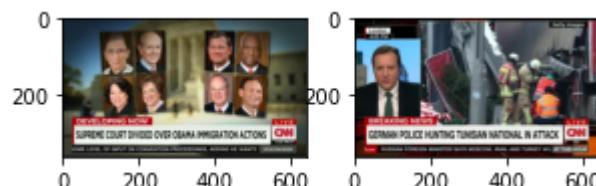
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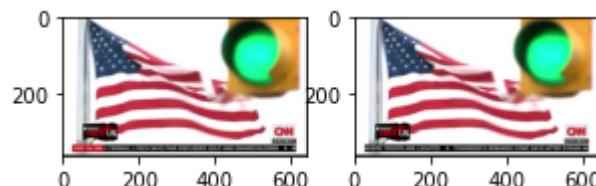
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CLUSTER--> 212 TOTAL IMAGES--> 2



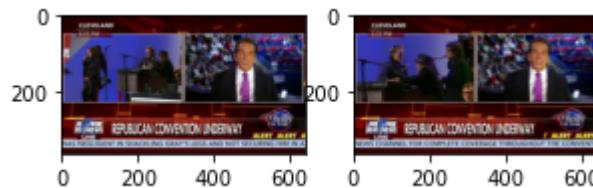
CLUSTER--> 213 TOTAL IMAGES--> 2



CLUSTER--> 214 TOTAL IMAGES--> 3



CLUSTER--&gt; 215 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 216 TOTAL IMAGES--&gt; 3



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CLUSTER--&gt; 218 TOTAL IMAGES--&gt; 3



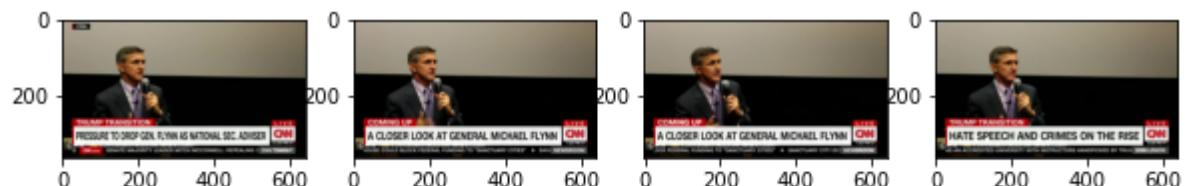
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CLUSTER--&gt; 220 TOTAL IMAGES--&gt; 3



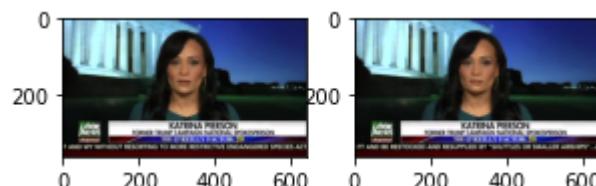
CLUSTER--&gt; 221 TOTAL IMAGES--&gt; 7



CLUSTER--&gt; 222 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 223 TOTAL IMAGES--&gt; 2



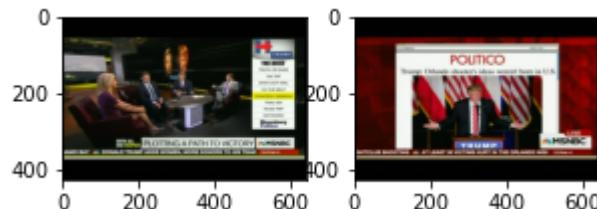
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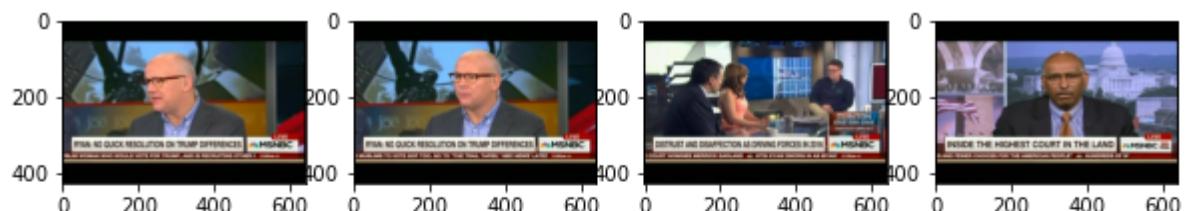
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CLUSTER--> 226 TOTAL IMAGES--> 2



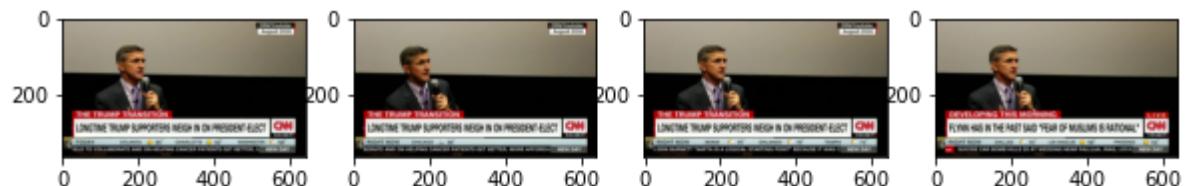
CLUSTER--> 227 TOTAL IMAGES--> 7



CLUSTER--> 228 TOTAL IMAGES--> 3



CLUSTER--> 229 TOTAL IMAGES--> 7



CLUSTER--> 230 TOTAL IMAGES--> 2



CLUSTER--> 231 TOTAL IMAGES--> 3



CLUSTER--> 232 TOTAL IMAGES--> 3



CLUSTER--> 233 TOTAL IMAGES--> 2



CLUSTER--> 234 TOTAL IMAGES--> 3



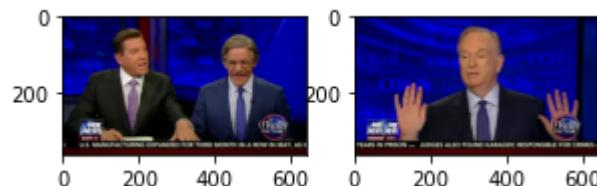
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CLUSTER--> 236 TOTAL IMAGES--> 3



CLUSTER--> 237 TOTAL IMAGES--> 2



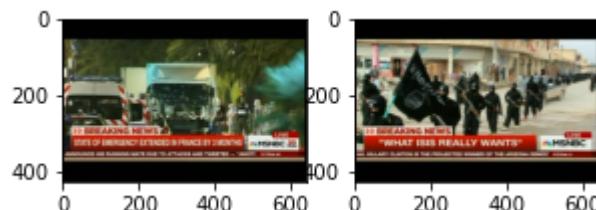
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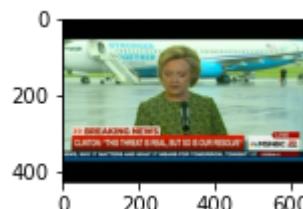
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CLUSTER--> 241 TOTAL IMAGES--> 2



CLUSTER--> 242 TOTAL IMAGES--> 1



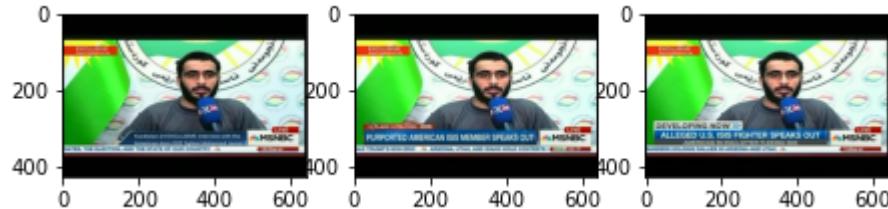
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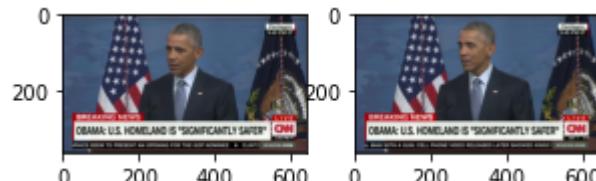
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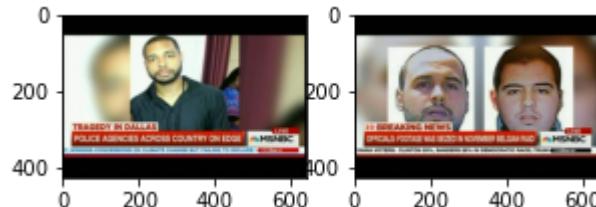
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CLUSTER--> 246 TOTAL IMAGES--> 2



CLUSTER--&gt; 247 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 248 TOTAL IMAGES--&gt; 11



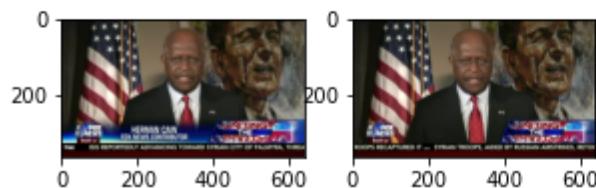
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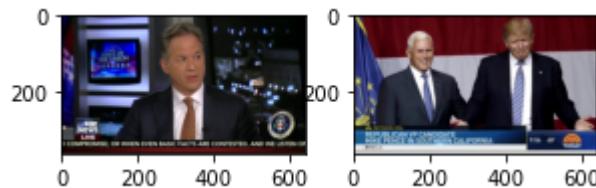
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CLUSTER--> 251 TOTAL IMAGES--> 6



CLUSTER--> 252 TOTAL IMAGES--> 2



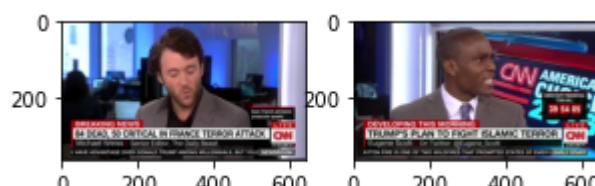
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CLUSTER--> 254 TOTAL IMAGES--> 3



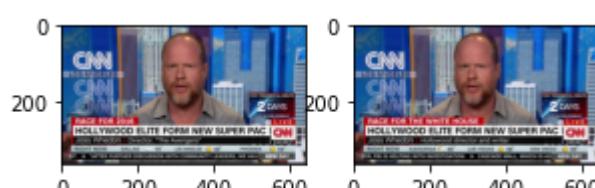
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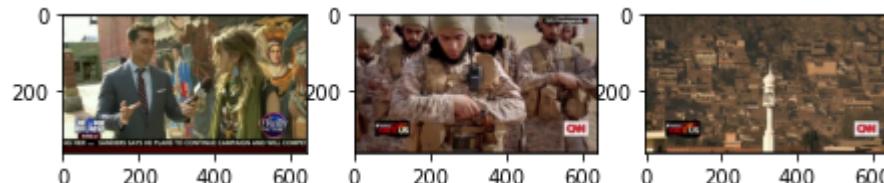
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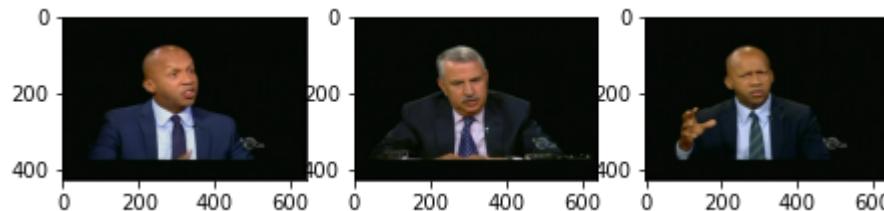
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CLUSTER--> 258 TOTAL IMAGES--> 3



CLUSTER--> 259 TOTAL IMAGES--> 3



CLUSTER--> 260 TOTAL IMAGES--> 2



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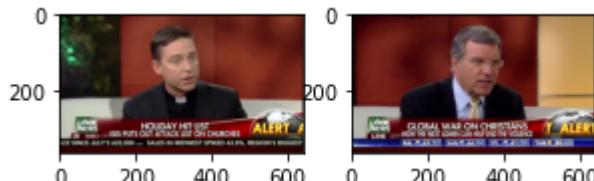
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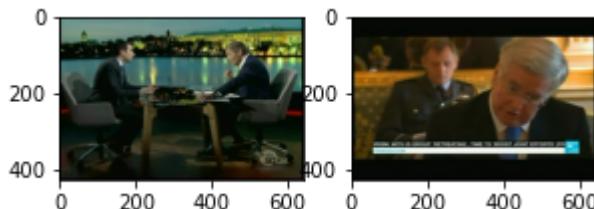
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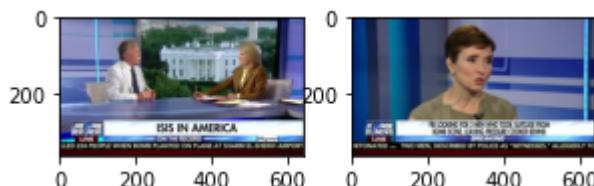
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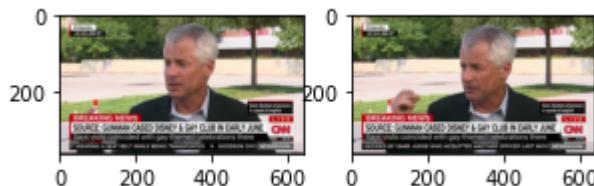
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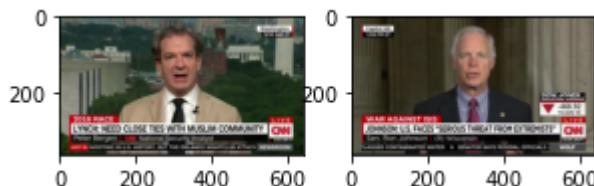
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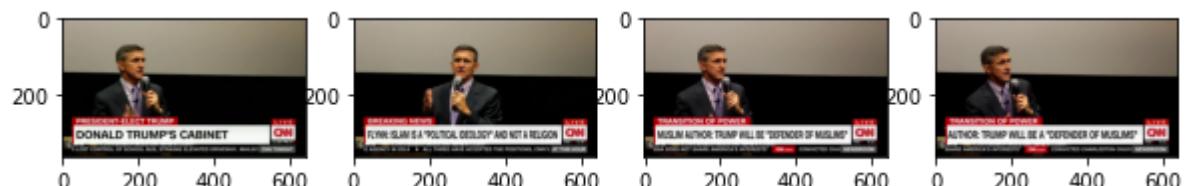
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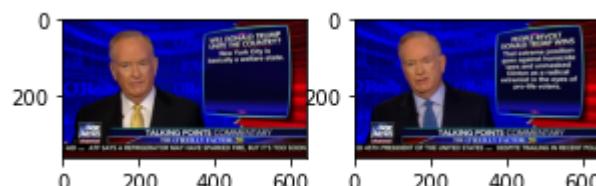
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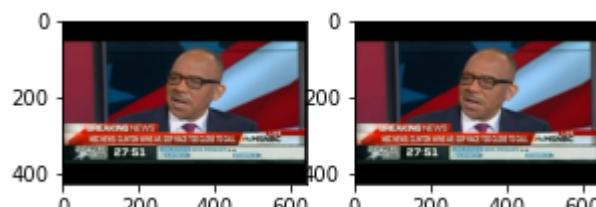
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CLUSTER--> 272 TOTAL IMAGES--> 2



CLUSTER--> 273 TOTAL IMAGES--> 2



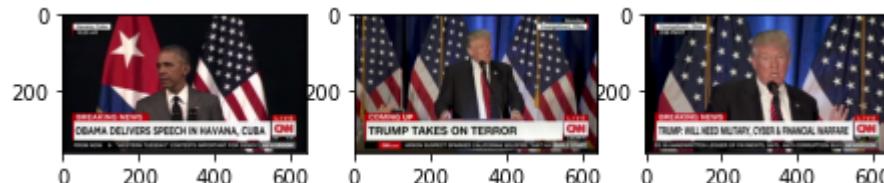
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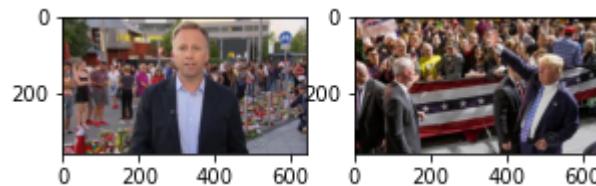
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CLUSTER--> 276 TOTAL IMAGES--> 3



CLUSTER--> 277 TOTAL IMAGES--> 2



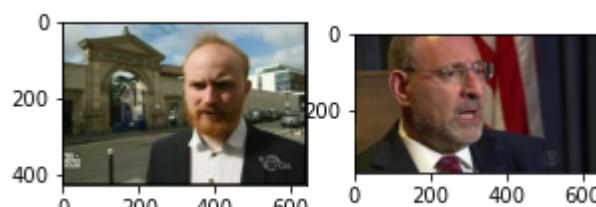
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CLUSTER--> 279 TOTAL IMAGES--> 2



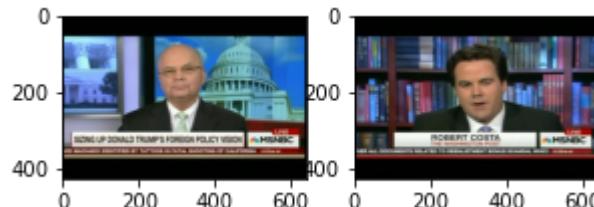
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CLUSTER--> 281 TOTAL IMAGES--> 2



CLUSTER--> 282 TOTAL IMAGES--> 2



CLUSTER--> 283 TOTAL IMAGES--> 3



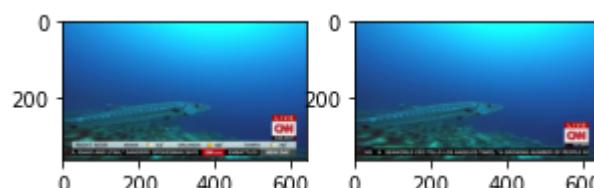
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CLUSTER--> 285 TOTAL IMAGES--> 2



CLUSTER--> 286 TOTAL IMAGES--> 2



CLUSTER--> 287 TOTAL IMAGES--> 3



CLUSTER--> 288 TOTAL IMAGES--> 2



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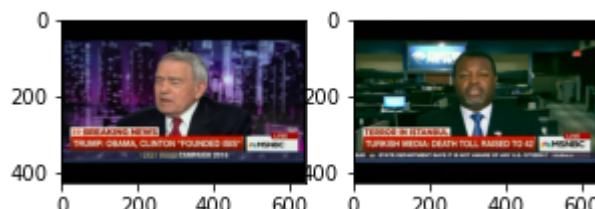
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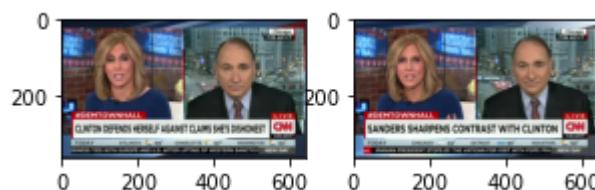
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CLUSTER--&gt; 292 TOTAL IMAGES--&gt; 2



CLUSTER--&gt; 293 TOTAL IMAGES--&gt; 2



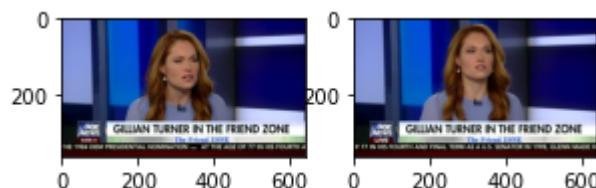
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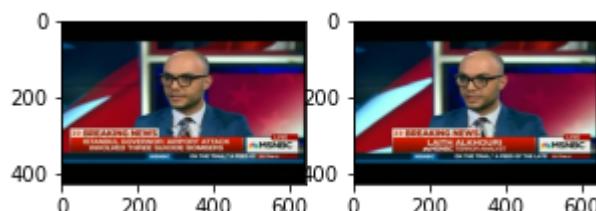
CLUSTER--> 295 TOTAL IMAGES--> 2



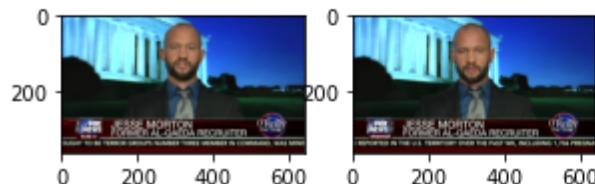
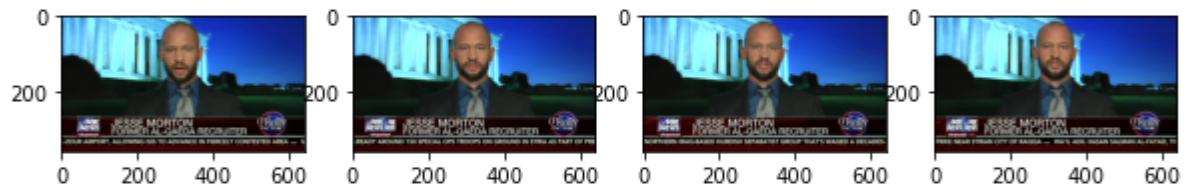
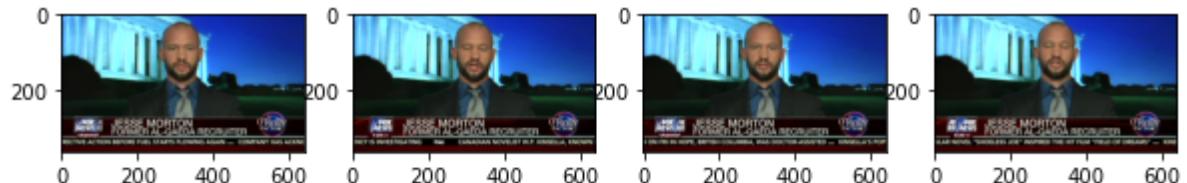
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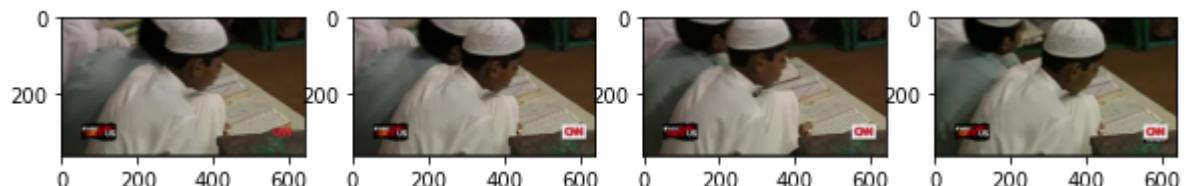
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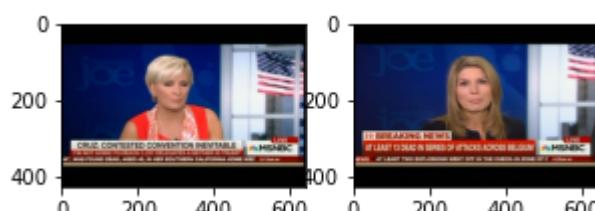
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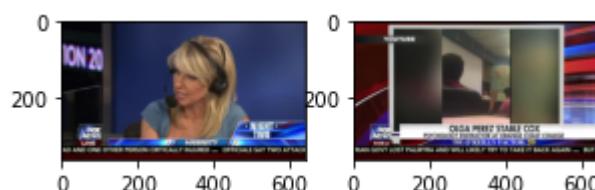
CLUSTER--> 299 TOTAL IMAGES--> 4



CLUSTER--> 300 TOTAL IMAGES--> 2



CLUSTER--> 301 TOTAL IMAGES--> 2



CLUSTER--> 302 TOTAL IMAGES--> 2