

Code snippet:

```
#save extracted thumbnails
i = 1
for img in images:
    print(type(img))
    img.save('human-face' + str(i) + '.jpg')
    i= i+ 1

thumbnail_id = "15a734ba-200d-4a7f-ad51-0be8e73bd569"
img_code =
boarding_pass_video_analyzer.get_thumbnail_from_video_indexer(video_id,
thumbnail_id)
img_stream = io.BytesIO(img_code)
img = Image.open(img_stream)
imshow(img)

keyframes = []
for shot in boarding_customer_info["videos"][0]["insights"]["shots"]:
    for keyframe in shot["keyFrames"]:
        keyframes.append(keyframe["instances"][0]['thumbnailId'])

for keyframe in keyframes:
    img_str =
boarding_pass_video_analyzer.get_thumbnail_from_video_indexer(video_id,
keyframe)

boarding_customer_info['summarizedInsights']['sentiments']
boarding_customer_info['summarizedInsights']['emotions']
```

Code screenshot:

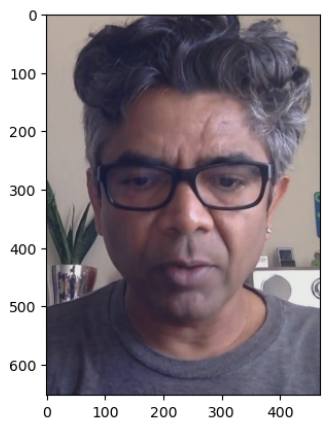
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```
In [30]: thumbnail_id = "15a734ba-200d-4a7f-ad51-0be8e73bd569"
img_code = boarding_pass_video_analyzer.get_thumbnail_from_video_indexer(video_id, thumbnail_id)
img_stream = io.BytesIO(img_code)
img = Image.open(img_stream)
imshow(img)
```

Getting thumbnail from video: 98813990a0, thumbnail: 15a734ba-200d-4a7f-ad51-0be8e73bd569

Out[30]: <matplotlib.image.AxesImage at 0x1bef8ee55b0>



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```
In [31]: keyframes = []
for shot in boarding_customer_info["videos"][0]["insights"]["shots"]:
    for keyframe in shot["keyFrames"]:
        keyframes.append(keyframe["instances"][0]["thumbnailId"])

In [32]: for keyframe in keyframes:
img_str = boarding_pass_video_analyzer.get_thumbnail_from_video_indexer(video_id, keyframe)
```

Getting thumbnail from video: 98813990a0, thumbnail: 4cb16564-06b3-471e-b6da-f49b4b78234b
Getting thumbnail from video: 98813990a0, thumbnail: 24f4eaba-7973-46fa-b08d-7fc545aa2ccf

```
In [33]: boarding_customer_info['summarizedInsights']['sentiments']
```

Out[33]: [{'sentimentKey': 'Neutral',
'seenDurationRatio': 0.8226,
'appearances': [{'startTime': '0:00:00',
'endTime': '0:00:07.48',
'startSeconds': 0,
'endSeconds': 7.5},
{'startTime': '0:00:12.16',
'endTime': '0:00:26.499856',
'startSeconds': 12.2,
'endSeconds': 26.5}]},
{'sentimentKey': 'Negative',
'seenDurationRatio': 0.1774,
'appearances': [{'startTime': '0:00:07.48',
'endTime': '0:00:12.16',
'startSeconds': 7.5,
'endSeconds': 12.2}]}]

```
In [34]: boarding_customer_info['summarizedInsights']['emotions']
```

Out[34]: [{'type': 'Anger',
'seenDurationRatio': 0.1774,
'appearances': [{'startTime': '0:00:07.48',
'endTime': '0:00:12.16',
'startSeconds': 7.5,
'endSeconds': 12.2}]}]