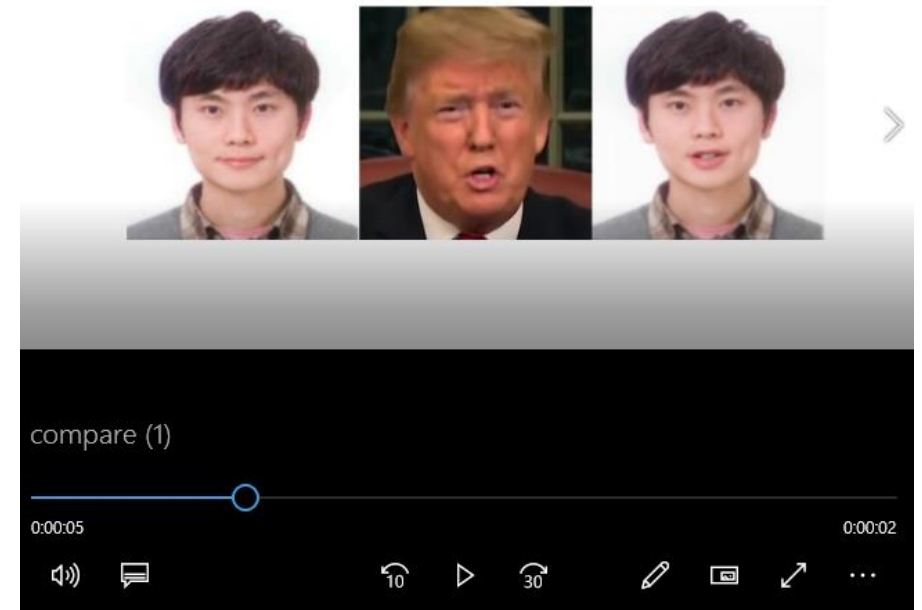


과제1 : 영상데이터 결과 분석

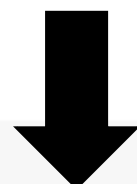
Feat. colab

과제1

- 논문
 - Title: **First Order Motion Model for Image Animation**
 - Presented **NeurIPS**, 2019
 - [arXiv ver.] <https://arxiv.org/pdf/2003.00196.pdf>



과제1 : 아래 코드 추가



```
source_image = imageio.imread('/content/gdrive/My Drive/first-order-motion-model/your_img.png')
driving_video = imageio.mimread('/content/gdrive/My Drive/first-order-motion-model/04.mp4', memtest=False)

#Resize image and video to 256x256

source_image = resize(source_image, (256, 256))[..., :3]
driving_video = [resize(frame, (256, 256))[..., :3] for frame in driving_video]

predictions = make_animation(source_image, driving_video, generator, kp_detector, relative=True,
                             adapt_movement_scale=True)

HTML(display(source_image, driving_video, predictions).to_html5_video())
```

100% | 211/211 [00:25<00:00, 8.17it/s]

과제1 : 동영상 화면캡처



```
source_image = imageio.imread('/content/gdrive/My Drive/first-order-motion-model/your_img.png')  
driving_video = imageio.mimread('/content/gdrive/My Drive/first-order-motion-model/04.mp4', memtest=False)
```

```
#Resize image and video to 256x256
```

```
source_image = resize(source_image, (256, 256))[..., :3]  
driving_video = [resize(frame, (256, 256))[..., :3] for frame in driving_video]
```

```
predictions = make_animation(source_image, driving_video, generator, kp_detector, relative=True,  
                             adapt_movement_scale=True)
```

```
HTML(display(source_image, driving_video, predictions).to_html5_video())
```

100% | 211/211 [00:25<00:00, 8.17it/s]



0:04 / 0:10



```
source_image = imageio.imread('/content/gdrive/My Drive/first-order-motion-model/spark.png')
driving_video = imageio.mimread('hinton.mp4', memtest=False)

#Resize image and video to 256x256

source_image = resize(source_image, (256, 256))[..., :3]
driving_video = [resize(frame, (256, 256))[..., :3] for frame in driving_video]

predictions = make_animation(source_image, driving_video, generator, kp_detector, relative=True,
                             adapt_movement_scale=True)

HTML(display(source_image, driving_video, predictions).to_html5_video())
```

100% | 240/240 [00:28<00:00, 8.30it/s]



▶ 0:09 / 0:12



과제1 요약

- Colab에서 다양한 영상데이터를 테스트해보기
- Requirement:
 - 보고서 제출 1편(보고서에는 아래의 내용이 반영될 것)
 - Source image (or driving video) 변경 여부를 확인할 수 있는 코드 부분 캡처
 - **자연스러운** 결과 화면 캡처 1 (source & driving video & generated video 동시에 나오는 화면)
 - **부자연스러운** 결과 화면 캡처 1 (source & driving video & generated video 동시에 나오는 화면)
 - 두 화면의 차이를 추론하여 보고(1단락 이상)
- 주의할 점
 - 두 캡처는 1) 동일한 source image로 생성하거나 2) 동일한 driving video로 생성해야 함.
 - 본인의 google drive 계정을 생성하되,
 - 보안 등 만일을 대비하기 위하여 잘 안쓰는 구글계정 사용할 것을 권고함.
 - Input data(either image or video)는 새로운 데이터이어야 함
 - 해당 colab에서 제공하지 않는 영상데이터이며, **사람**임을 식별할 수 있어야 함.

문의사항

- 과제 내용 관련 질의 : 김동휘 조교
- 성적평가 : 박상효 교수