CYCLE GAN ON CARTOON SERIES

DATA ACQUISITION

DOWNLOAD CARTOONS TO TRAIN THE MODEL

FRAMES 256X256 ARE FED INTO THE MODEL.

I HAVE CUT 2 FRAMES FROM THE CENTER TO THE RIGHT AND TO THE LEFT FROM EACH ORIGINAL FRAME

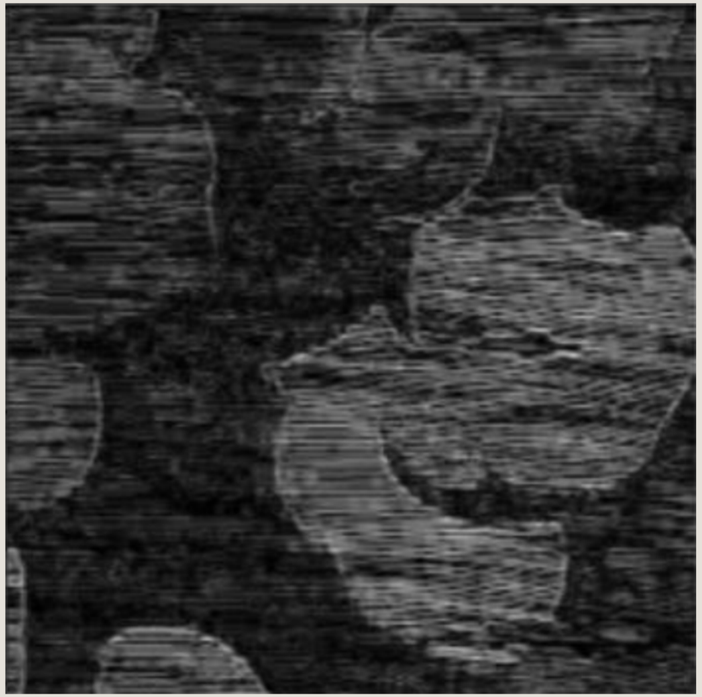
MANY BACKGROUND FRAMES CONTAINING LITTLE INFORMATION.

```
sobel_kernel = np.array([[-1, -2, -1],
                         [ 0,  0,  0],
                         [ 1,  2,  1]])
```

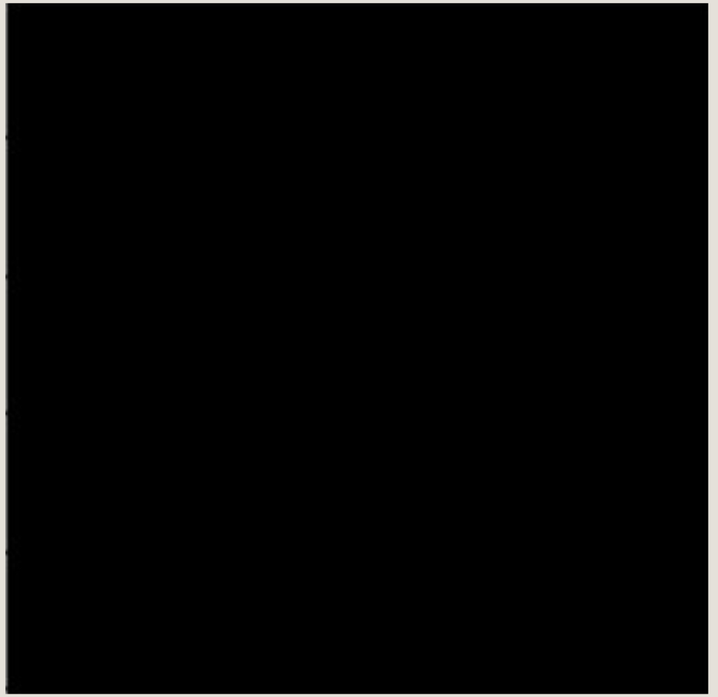
APPLIED A SOBEL FILTER TO THE FRAMES, HOPING TO OBTAIN CONTOURS THAT WILL SHOW HOW INFORMATIVE A FRAME IS.

A FEW FRAMES THAT ARE CLEAR IN TERMS OF INFORMATIVENESS AND SELECT A THRESHOLD FOR PAINTING THE PIXEL WHITE.

ORIGINAL FRAME



SOBEL FILTER



PAINTED WHITE EVERYTHING ABOVE THE THRESHOLD

SOBEL FILTER IN ACTION



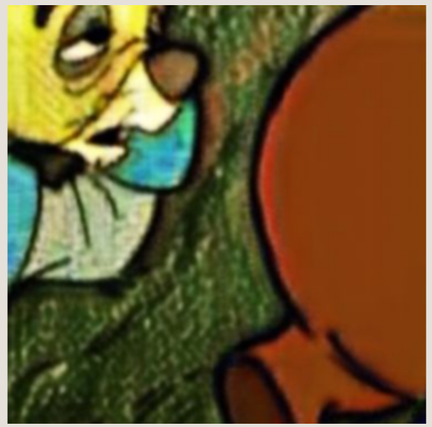



THE IDEA WAS TO REMOVE THE CONTENT LOSS TERM, HOPING TO TRANSFER MORE OF THE STYLE.

WINNIE THE POOH: ORIGINAL LOSS FUNCTION + NEW ARCHITECTURE FROM THE PAPER

OVER 50 EPOCHS





SUBSEQUENTLY, PROCESS ONE OR TWO THOUSAND FRAMES USING THE TRAINED MODEL TO GENERATE THE FINAL VIDEO.

Enjoy the viewing!

SARVAGYA TAYAL