

# COLORIZATION OF BLACK&WHITE IMAGES

# WHY THIS TOPIC?



# PHOTO RESTORATION

# MANGA COLORIZATION



# WHAT WE USED?

**DATASET**

**COCO-2017**

**10.000 IMAGES**

**MODELS**

**GAN**

**RESNET 18**

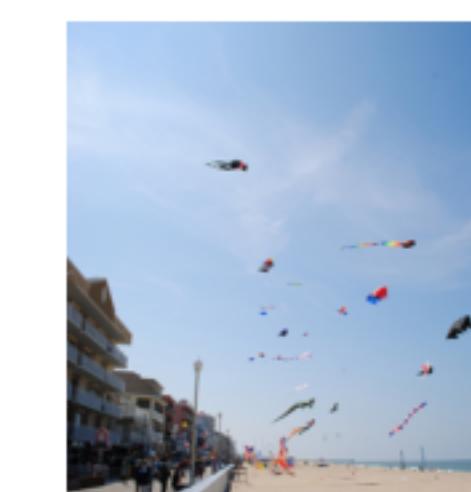
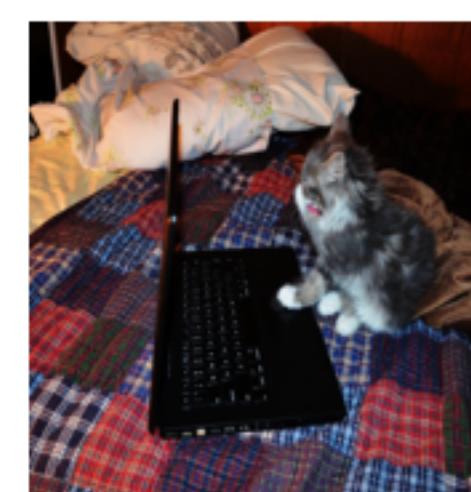
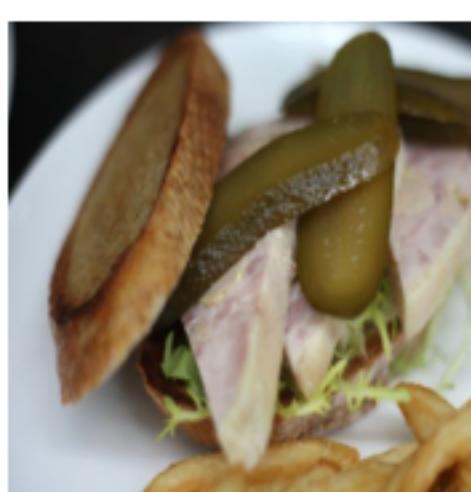
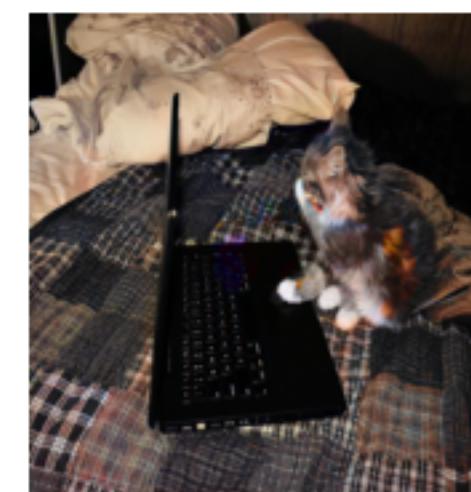
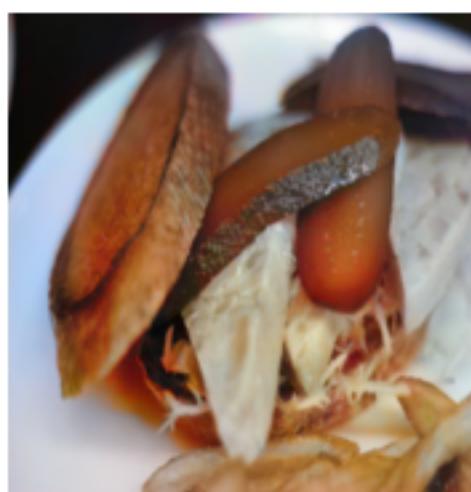
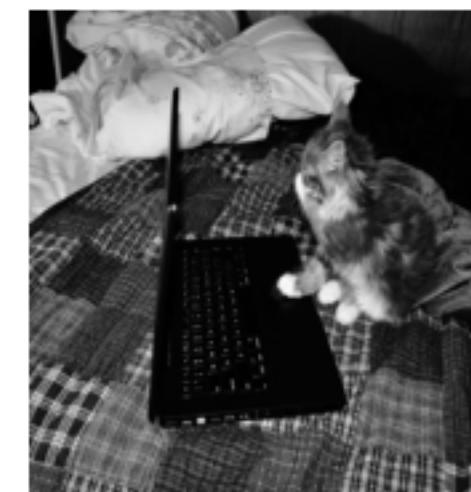
**RESNET 34**

**TELEGRAM BOT**

**@COLOR\_YOUR\_PHOTO**

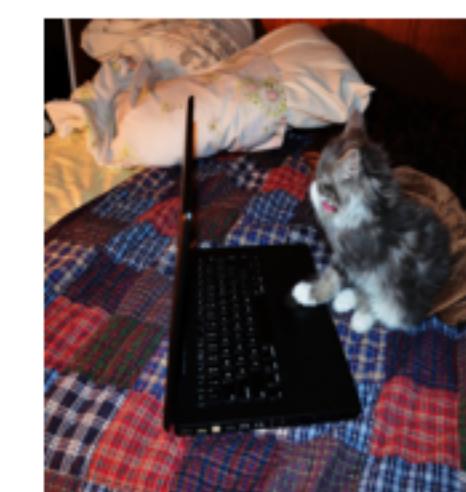
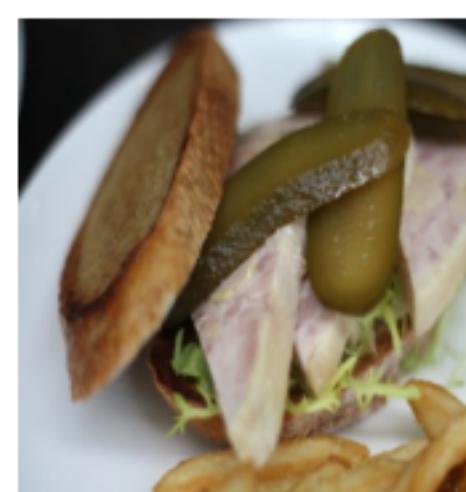
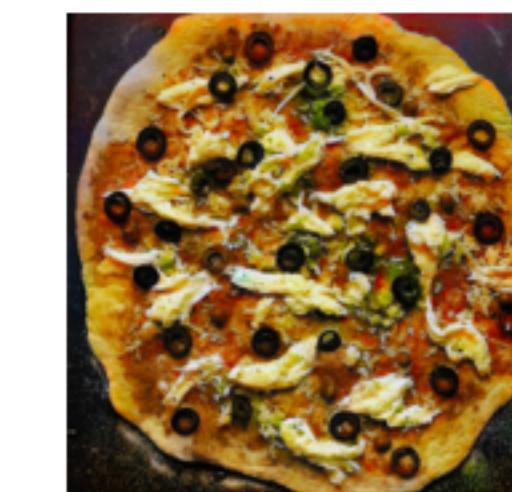
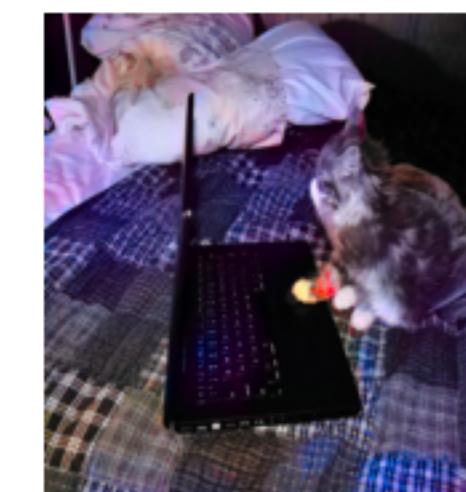
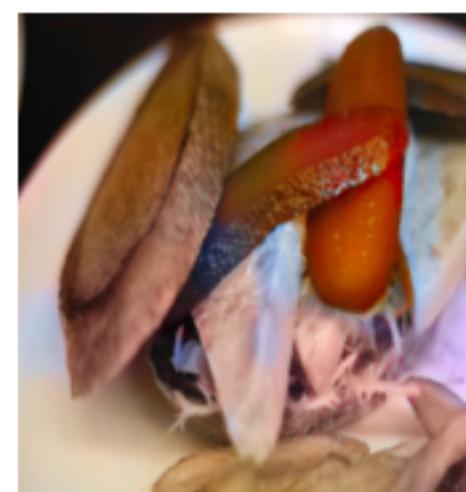
# WHAT WE HAVE ACHIEVED?

**GAN**



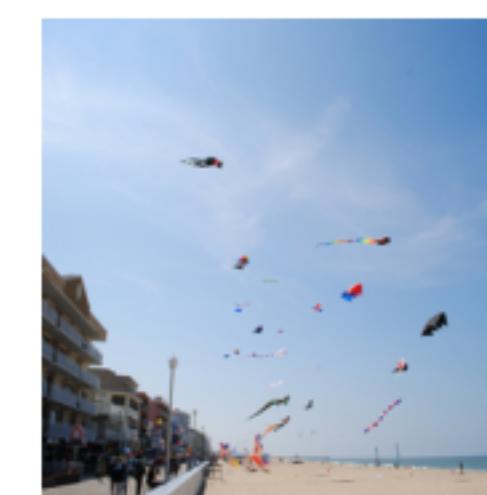
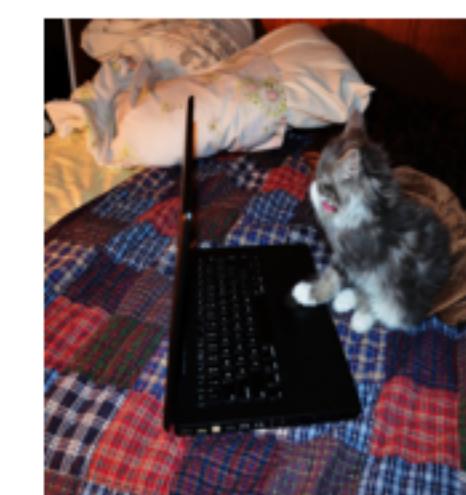
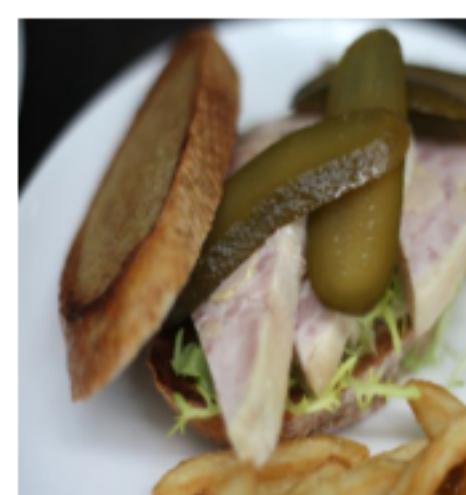
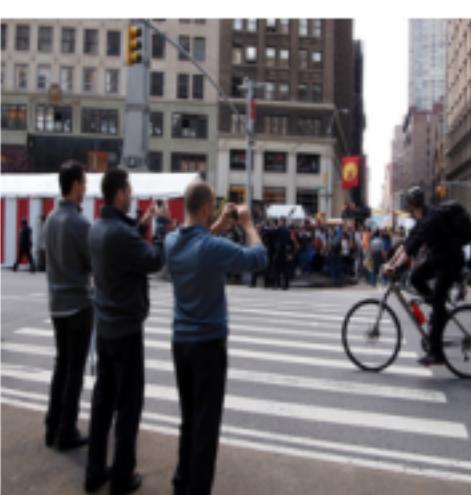
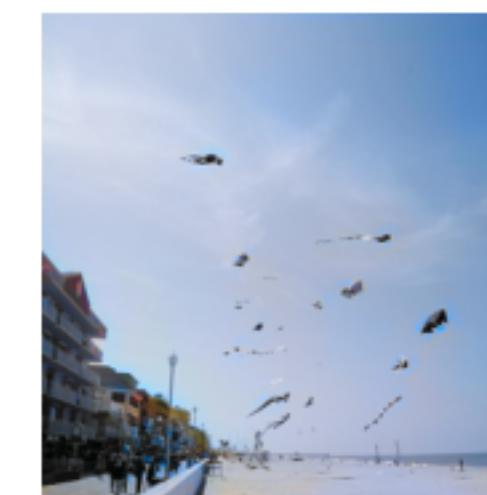
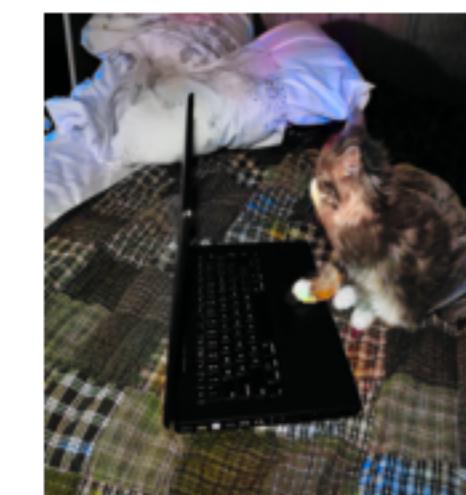
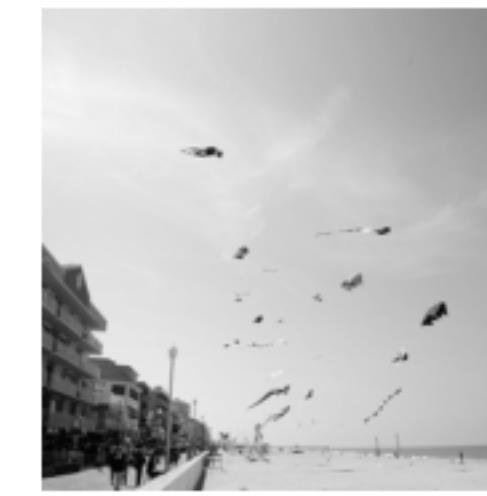
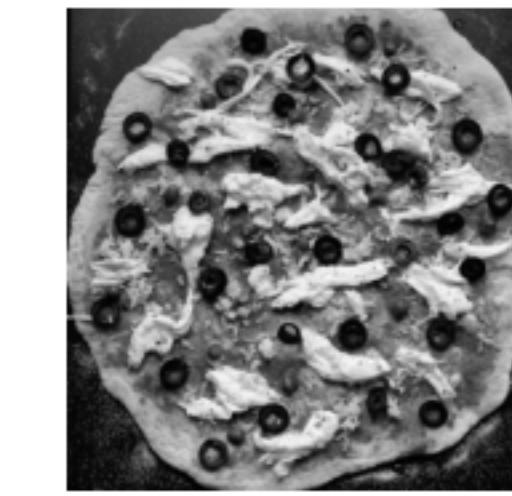
# WHAT WE HAVE ACHIEVED?

## RESNET18



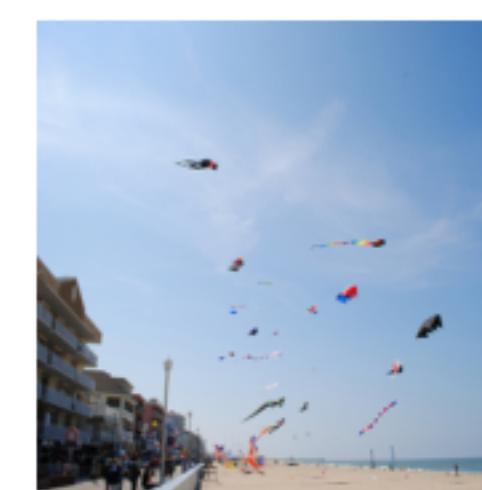
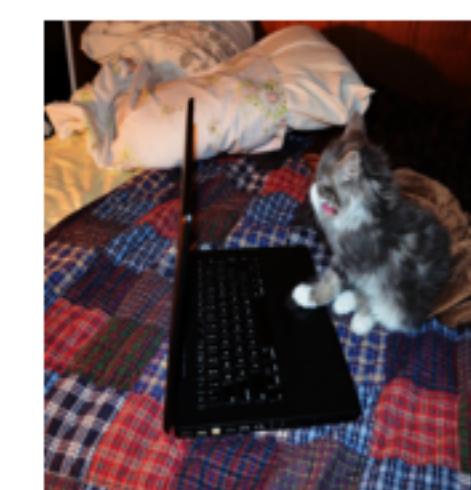
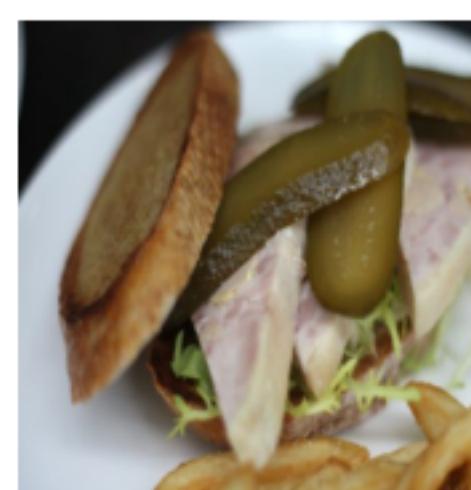
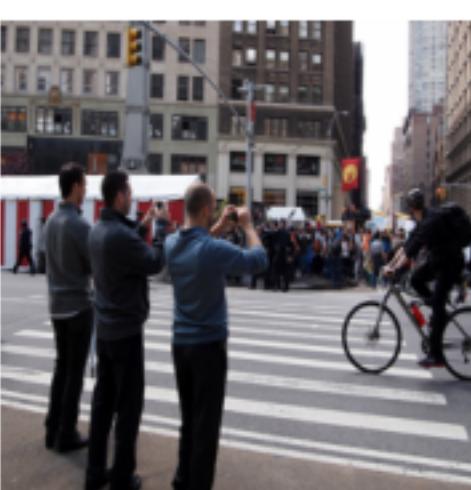
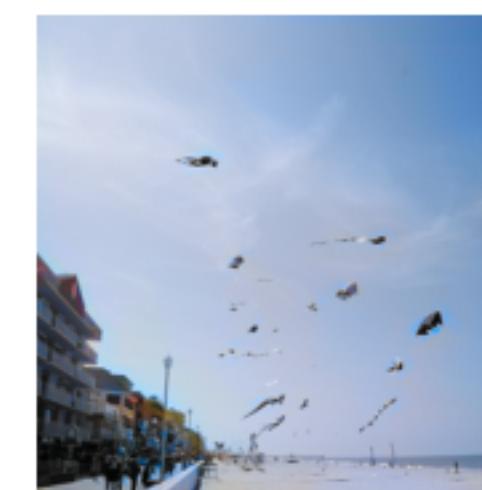
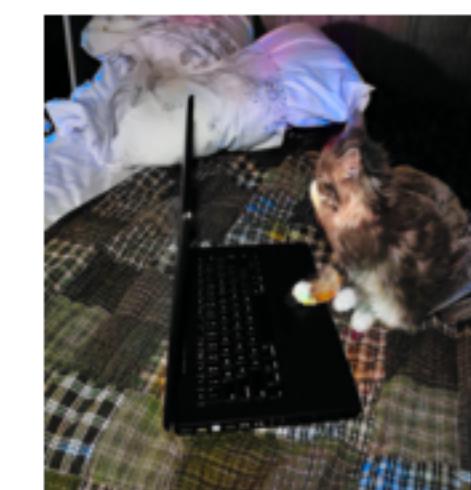
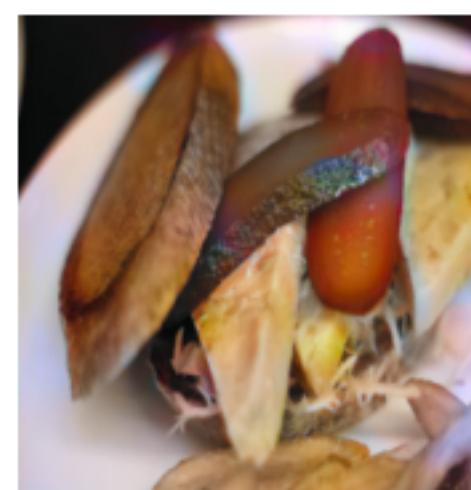
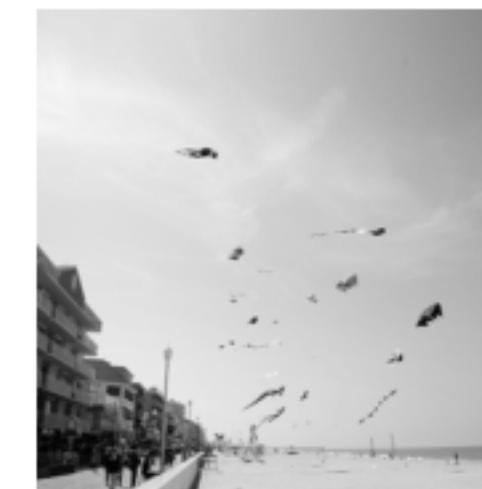
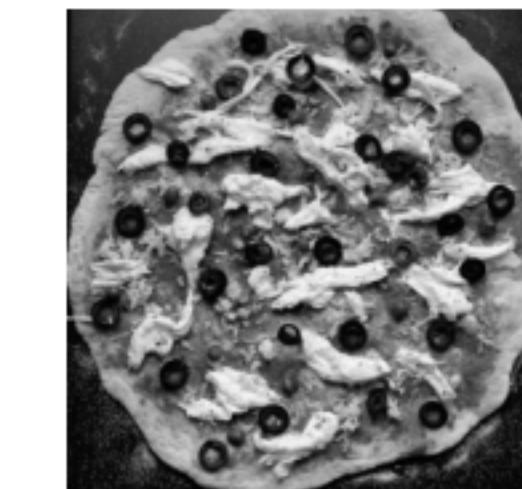
# WHAT WE HAVE ACHIEVED?

## RESNET34



**WINNER:**

**RESNET34**



# POSSIBLE IMPROVEMENTS

- TRY DIFFERENT APPROACH
- INCREASE TRAINING TIME
- OPTIMIZE HYPER-PARAMETERS