

OpenSW Team Project

Practical Blind Denoting via SCUNet

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Research Topic Introduction



scUNet

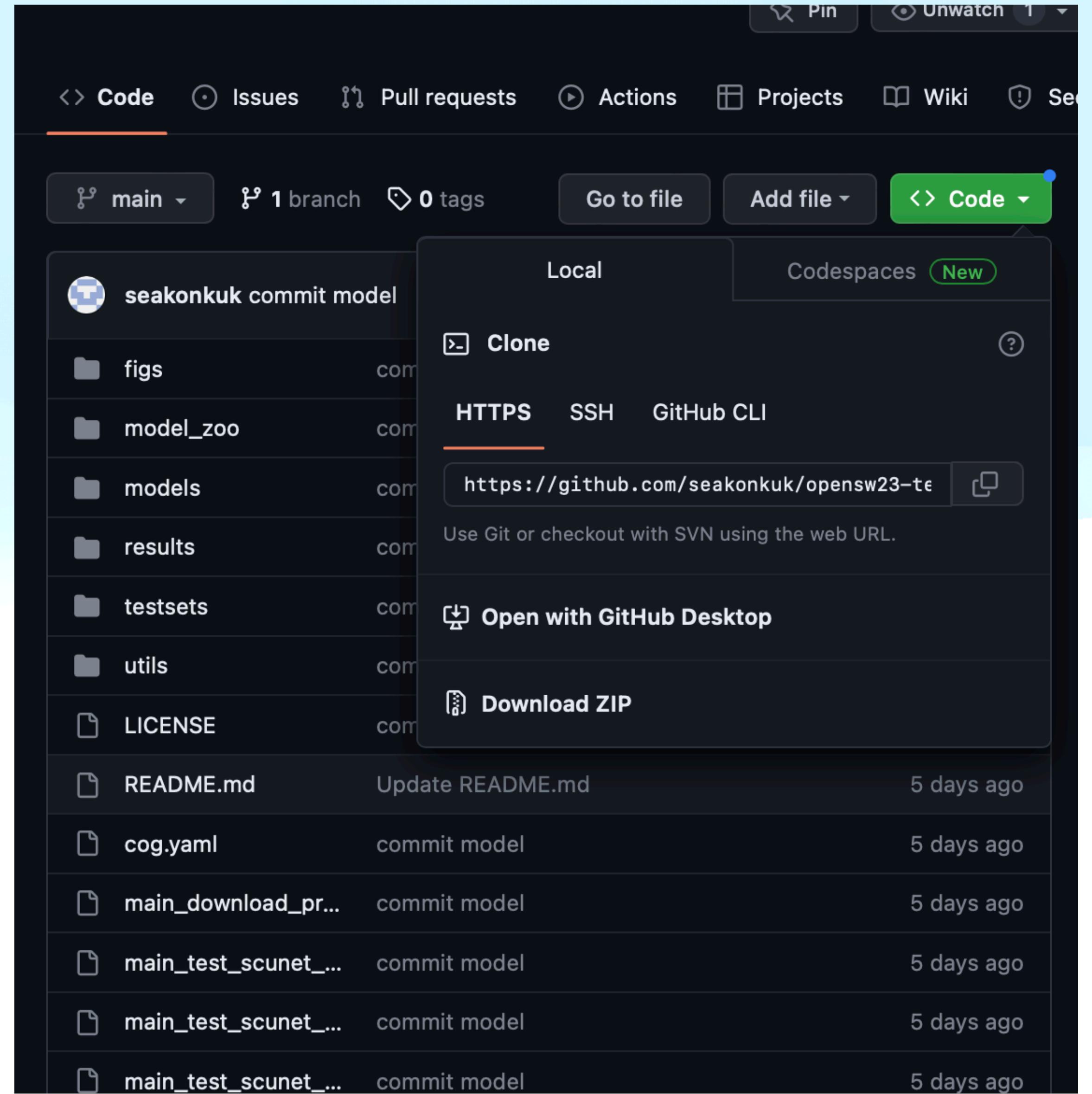
SCUNet

- Stable Diffusion Upscaler의 종류 중 하나
 - AI 기반 저해상도 이미지의 해상도를 높이는 알고리즘
- 이미지 초해상도를 위한 딥러닝 기반 알고리즘
- 비교적 매개변수가 적고, 속도가 빠름
- 저해상도 이미지를 처리하도록 설계됨
- 확대된 이미지의 시각적 품질을 향상시키는 데에 효과적

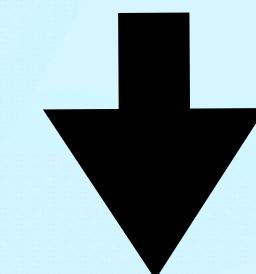
Installation Instructions

Git clone

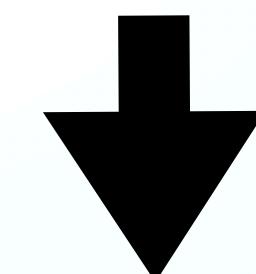
해당 깃허브 주소를 clone



Gaussian denoising
- gray scale image

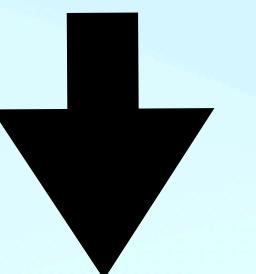


testsets/set12

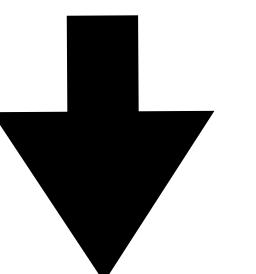


**results/
set12_scunet_gray_25**

Gaussian denoising
- color image

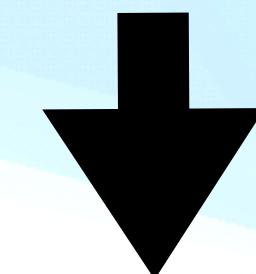


testsets/bsd68

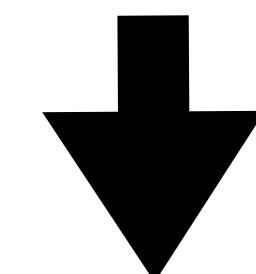


**results/
bsd68_scunet_color_25**

**Blind real image
denoising**



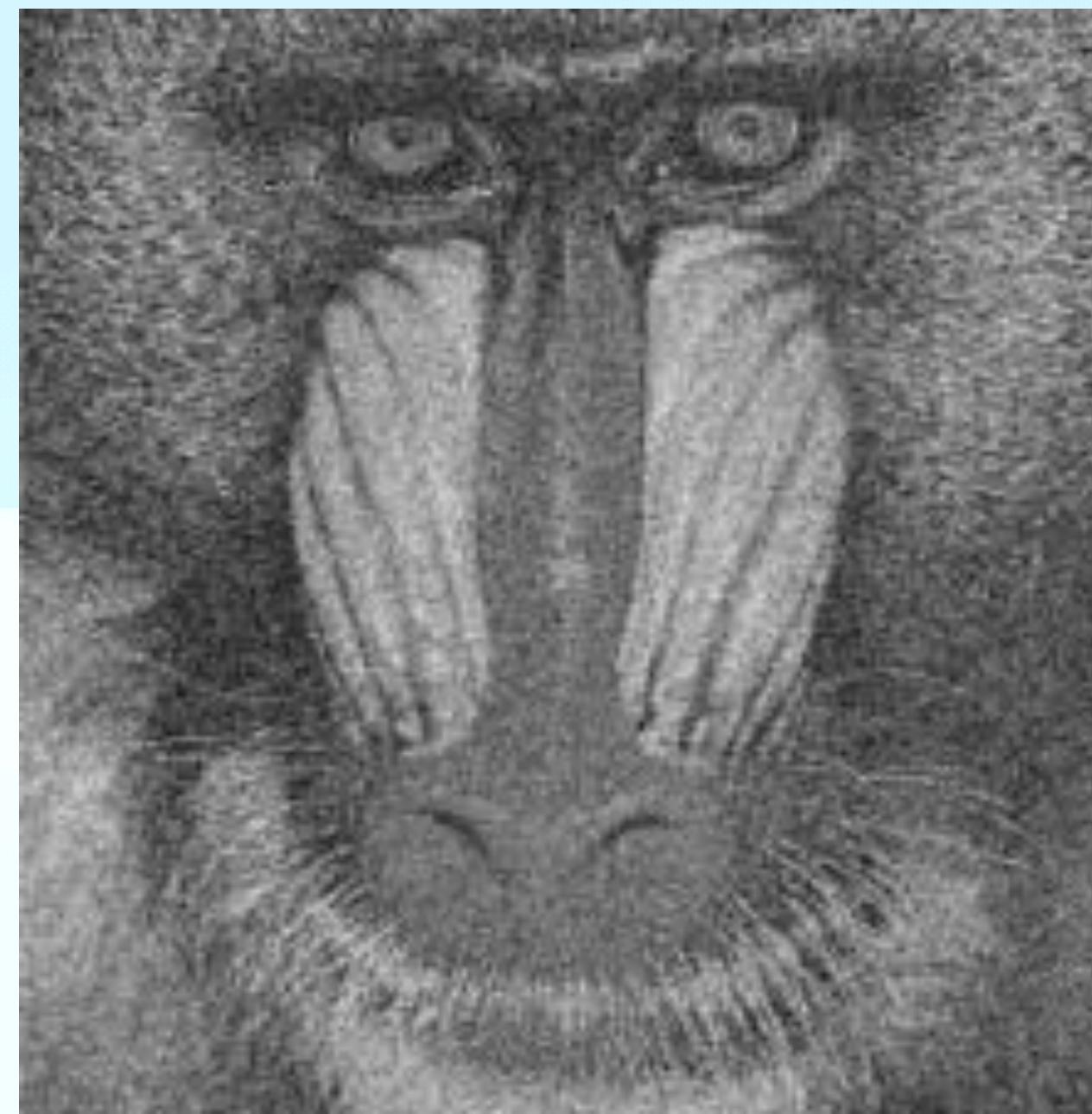
testsets/real3



**results/
real3_scunet_color_real
_psnr**

Results & Analysis

Gaussian Denoising - gray scale image



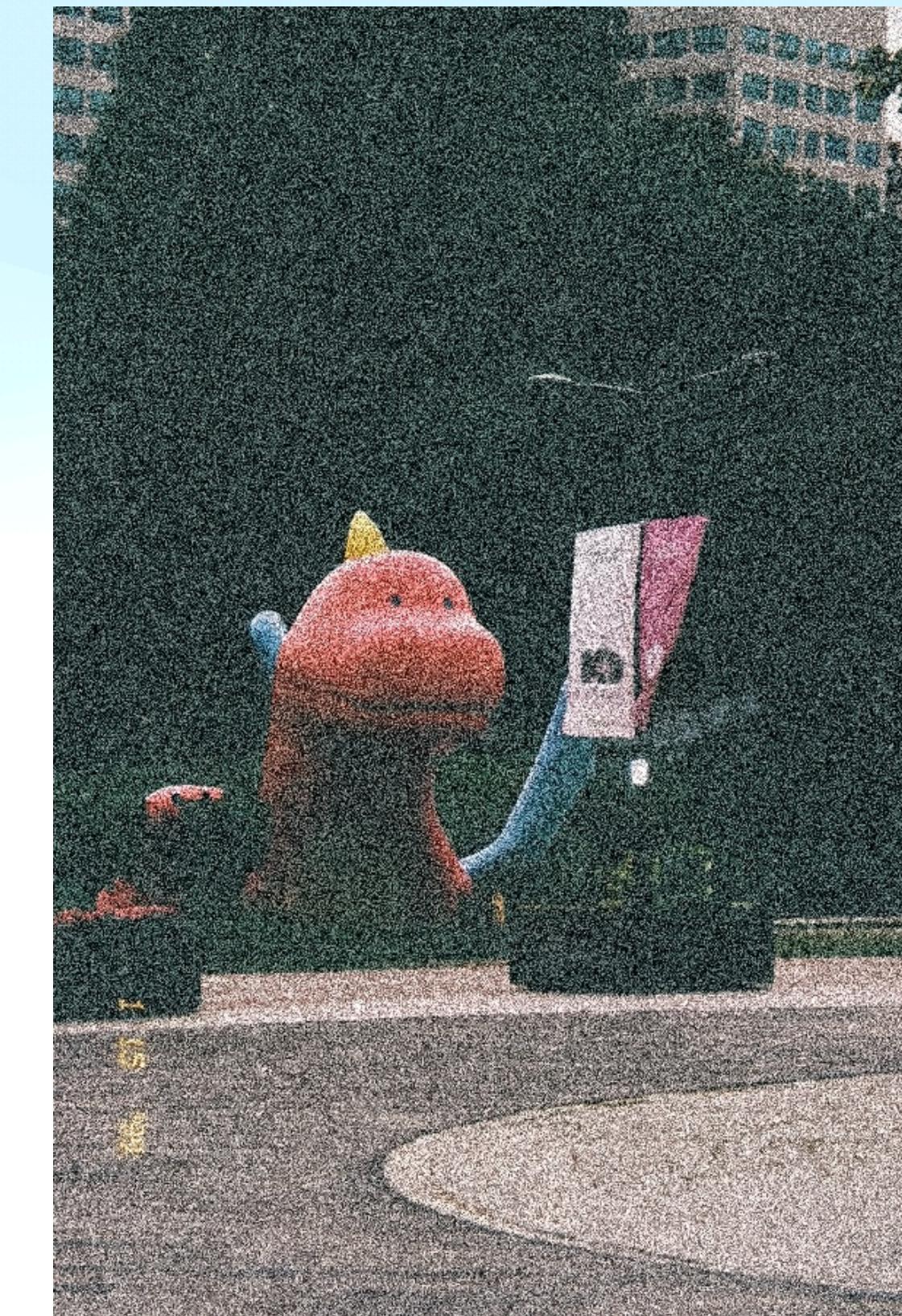
Gaussian Denoising - gray scale image



Gaussian Denoising - color image



Gaussian Denoising - color image



Blind real image denoising



Blind real image denoising



Discussion or Thoughts

다양한 활성화 함수

감사합니다