



Team 14

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01

Results



Results



Results



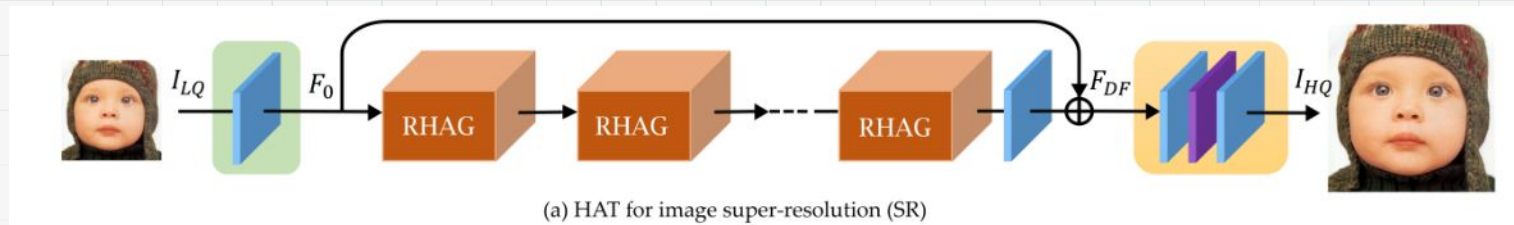


02

References



HAT: Hybrid Attention Transformer for Image Restoration ✨



We use the pre-trained weight of HAT trained in GAN method, referred to as **HAT-GAN** in our approach.

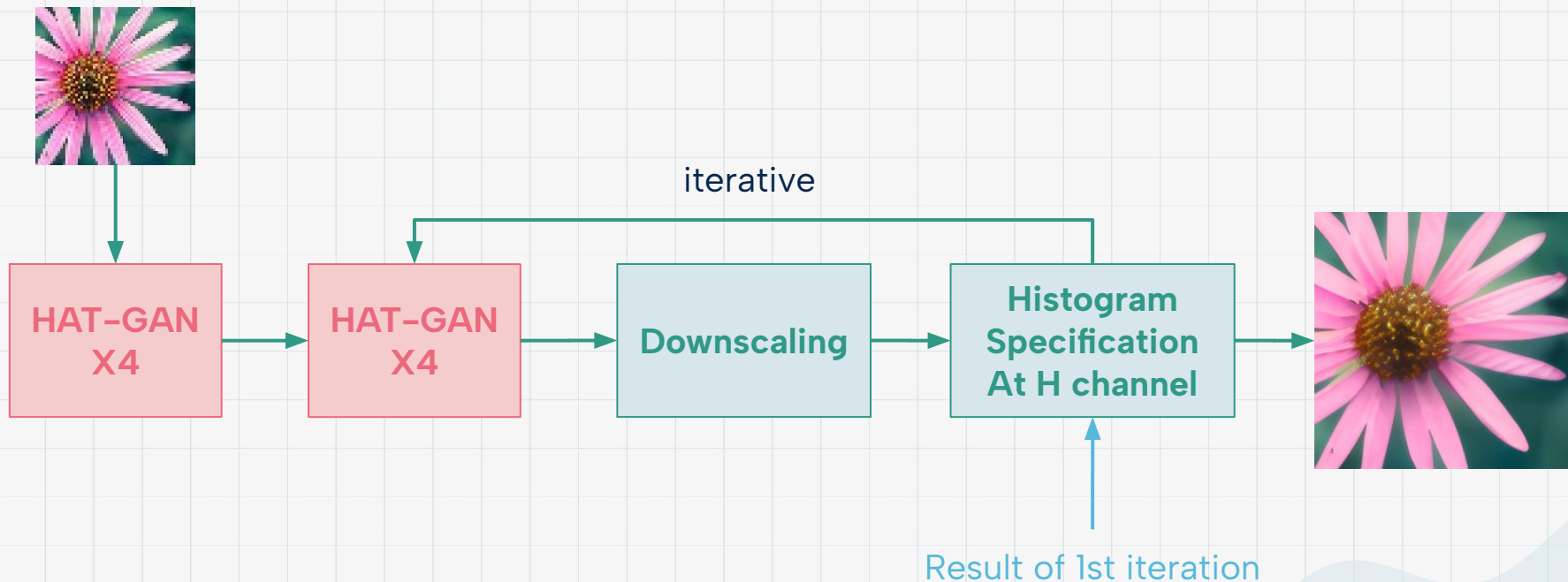
HAT-GAN



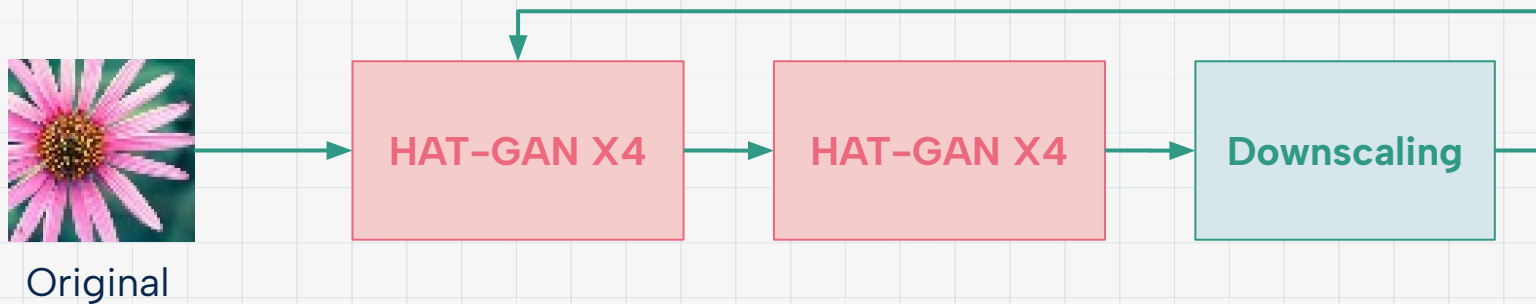
03

For General cases

For General cases



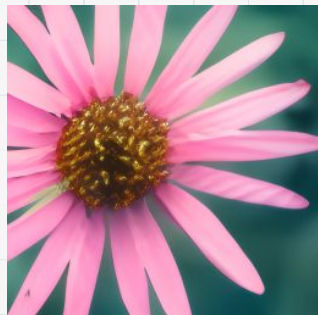
Initial Method



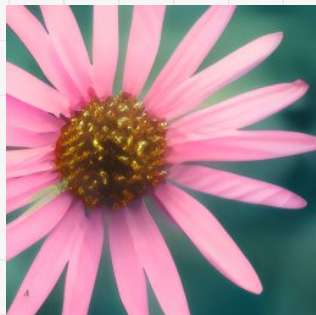
Results of Initial Method



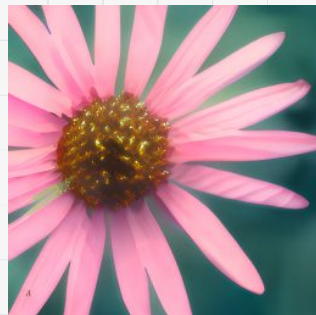
Iteration 1



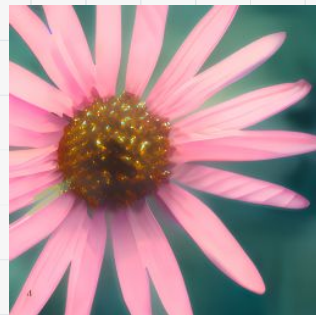
Iteration 2



Iteration 3



Iteration 4

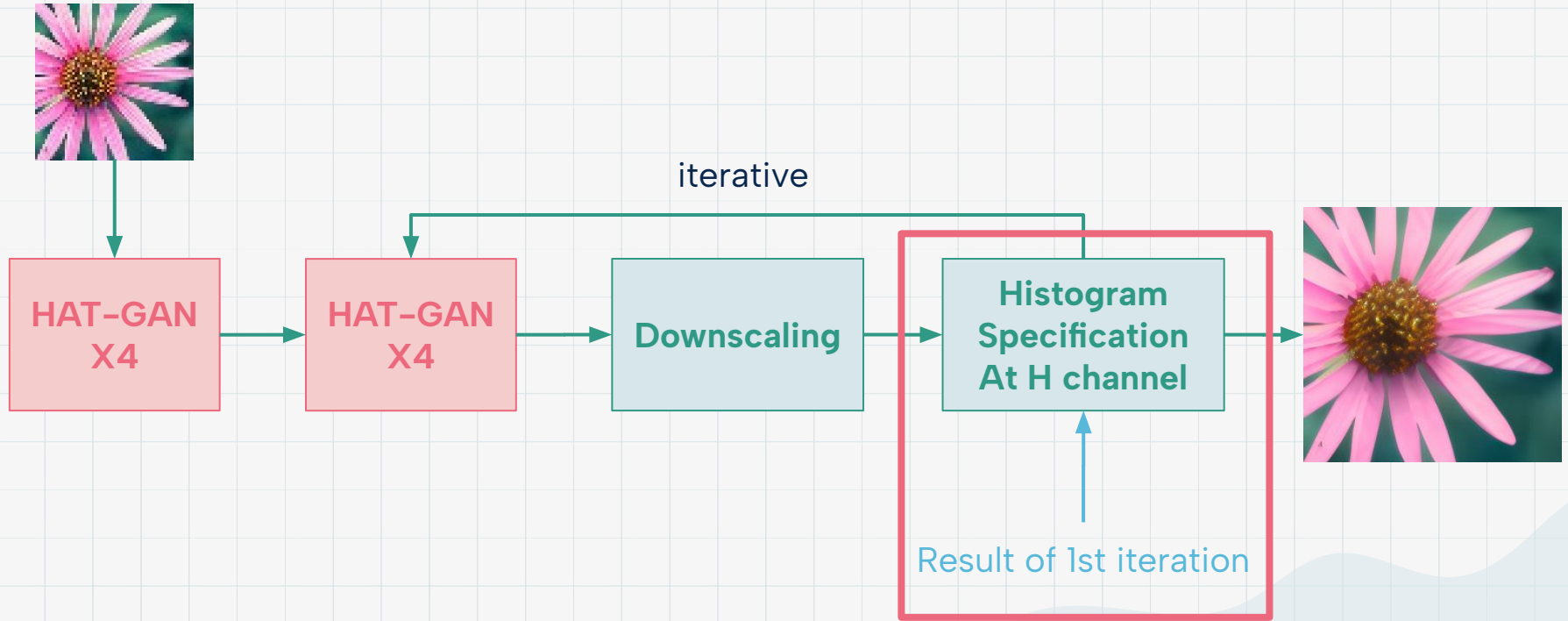


Iteration 5

The details become increasingly clear.

But the contrast becomes smaller and smaller.

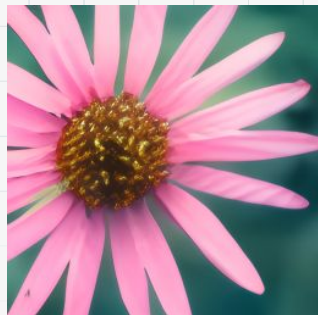
Improved Method



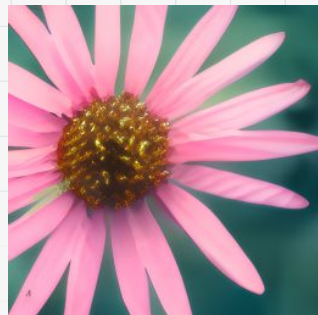
Result of Improved Method



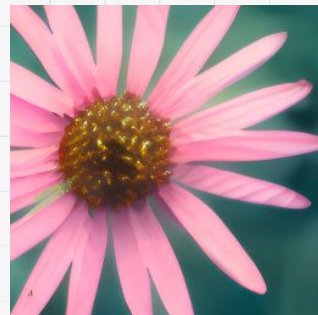
Iteration 1



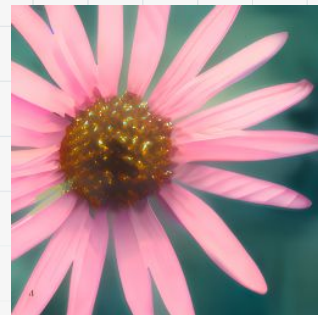
Iteration 2



Iteration 3



Iteration 4

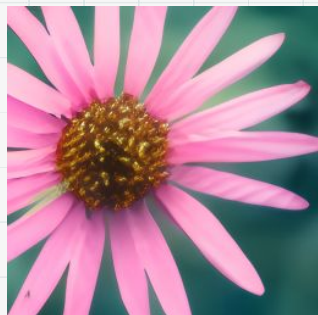


Iteration 5

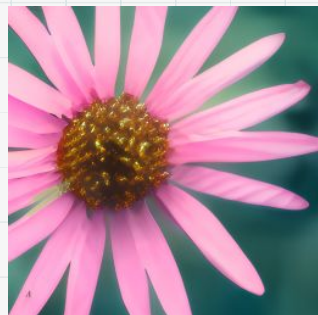
With histogram specification ↓



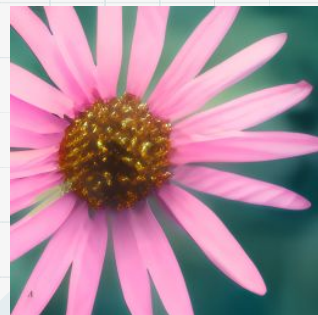
Iteration 1



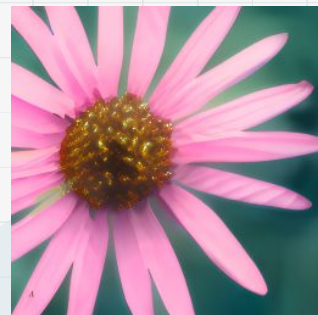
Iteration 2



Iteration 3

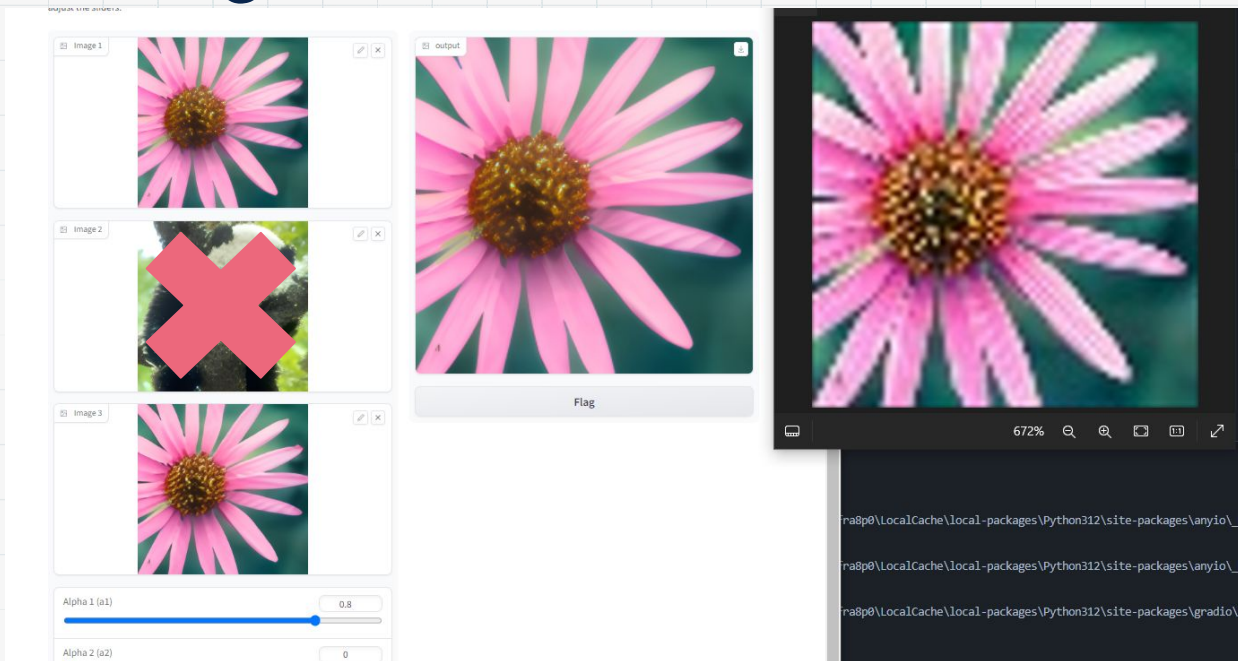


Iteration 4



Iteration 5

Blend images



Iteration-5

X0.8 +

Iteration-1

X0.2

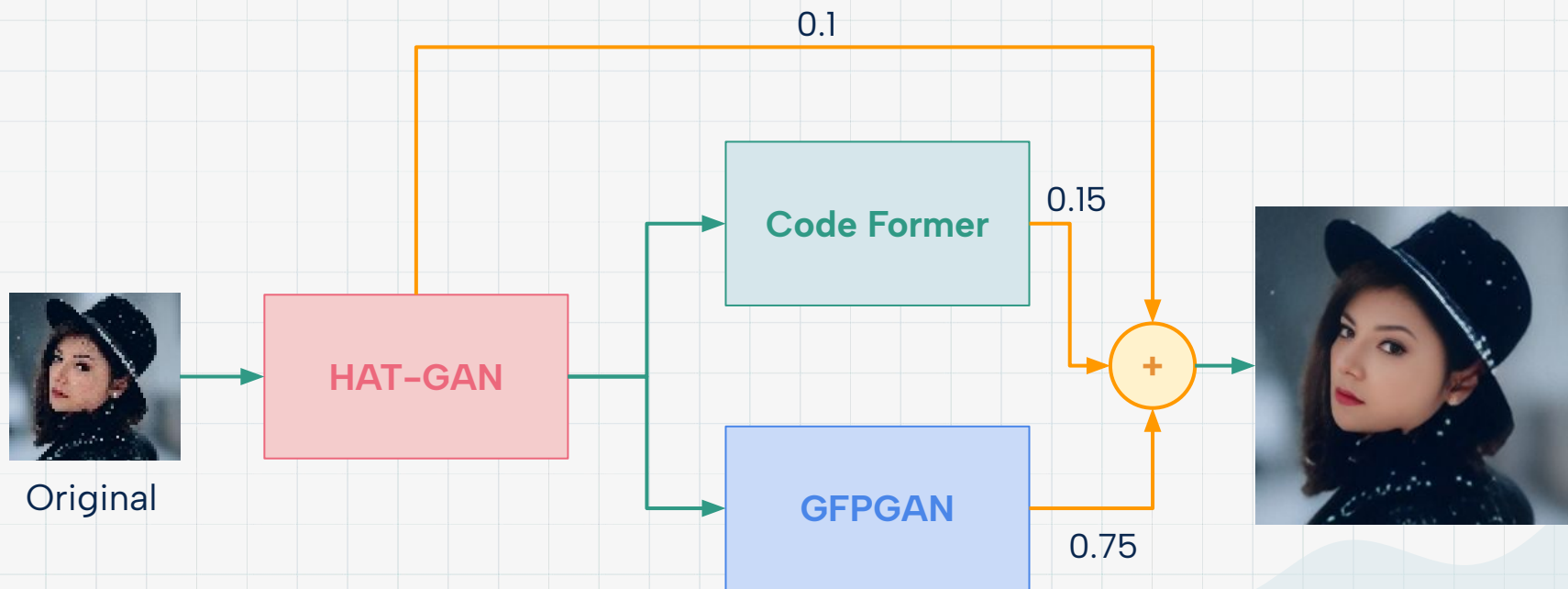


04

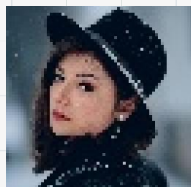
For Human Faces



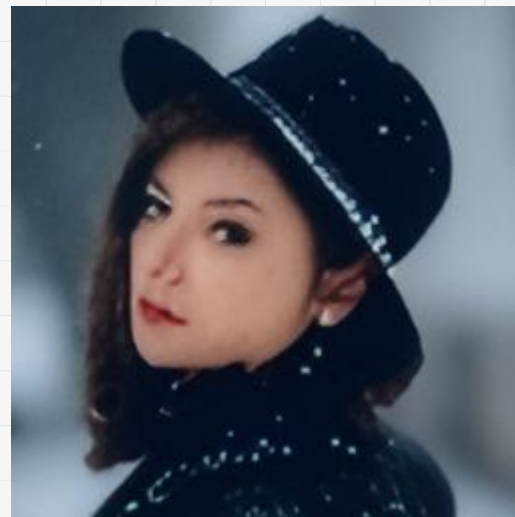
For Human Faces



HAT-GAN

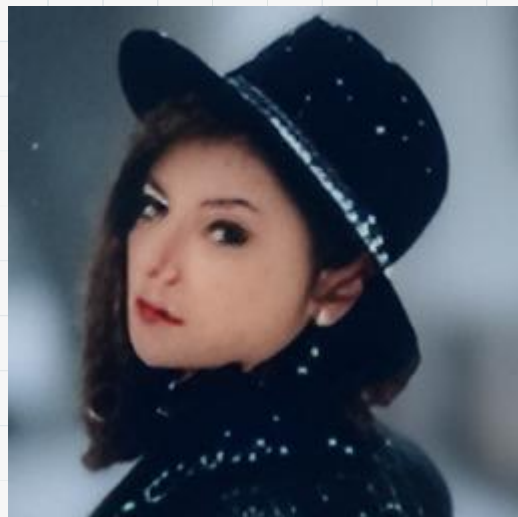


Original



HAT-GAN x4

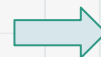
Face Restoration Model



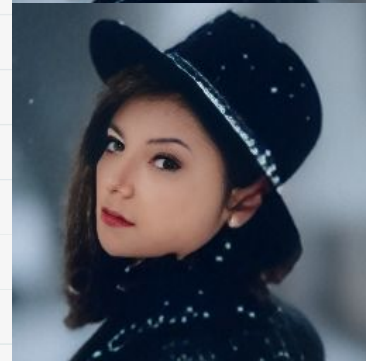
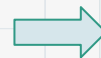
HAT-GAN x4



Code Former



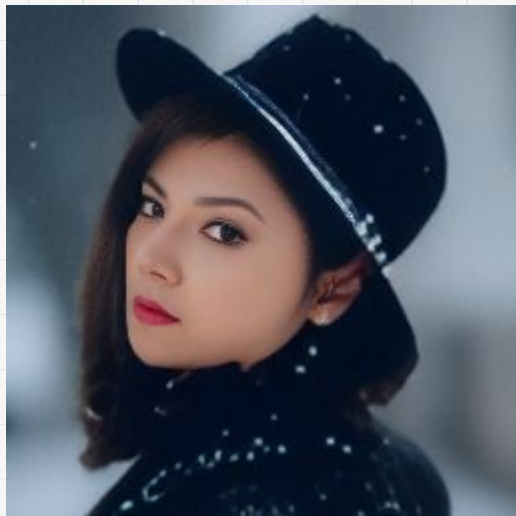
GFPGAN



Face Restoration Model

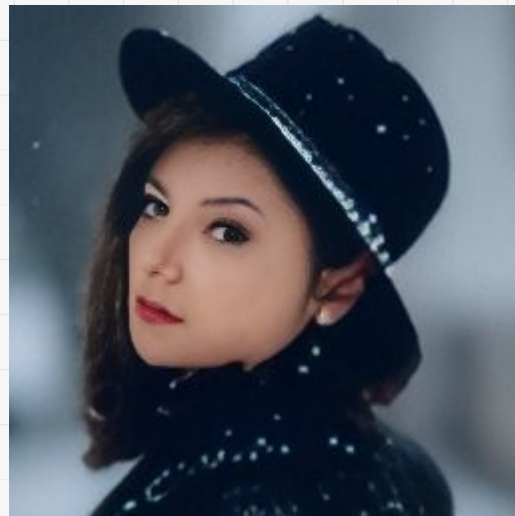


HAT-GAN x4



Code Former

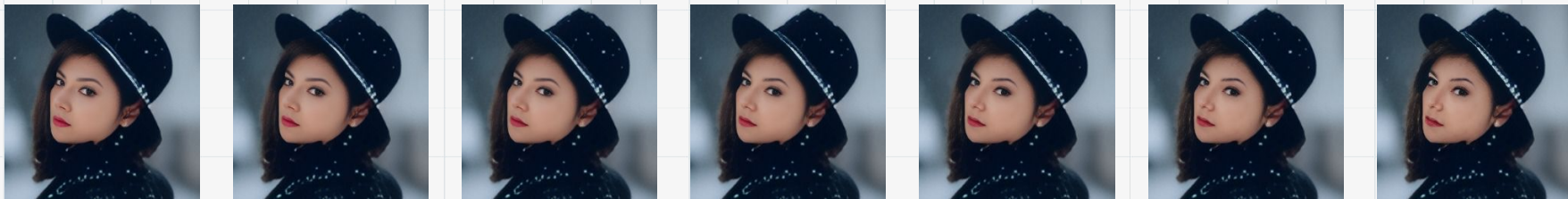
- More realistic



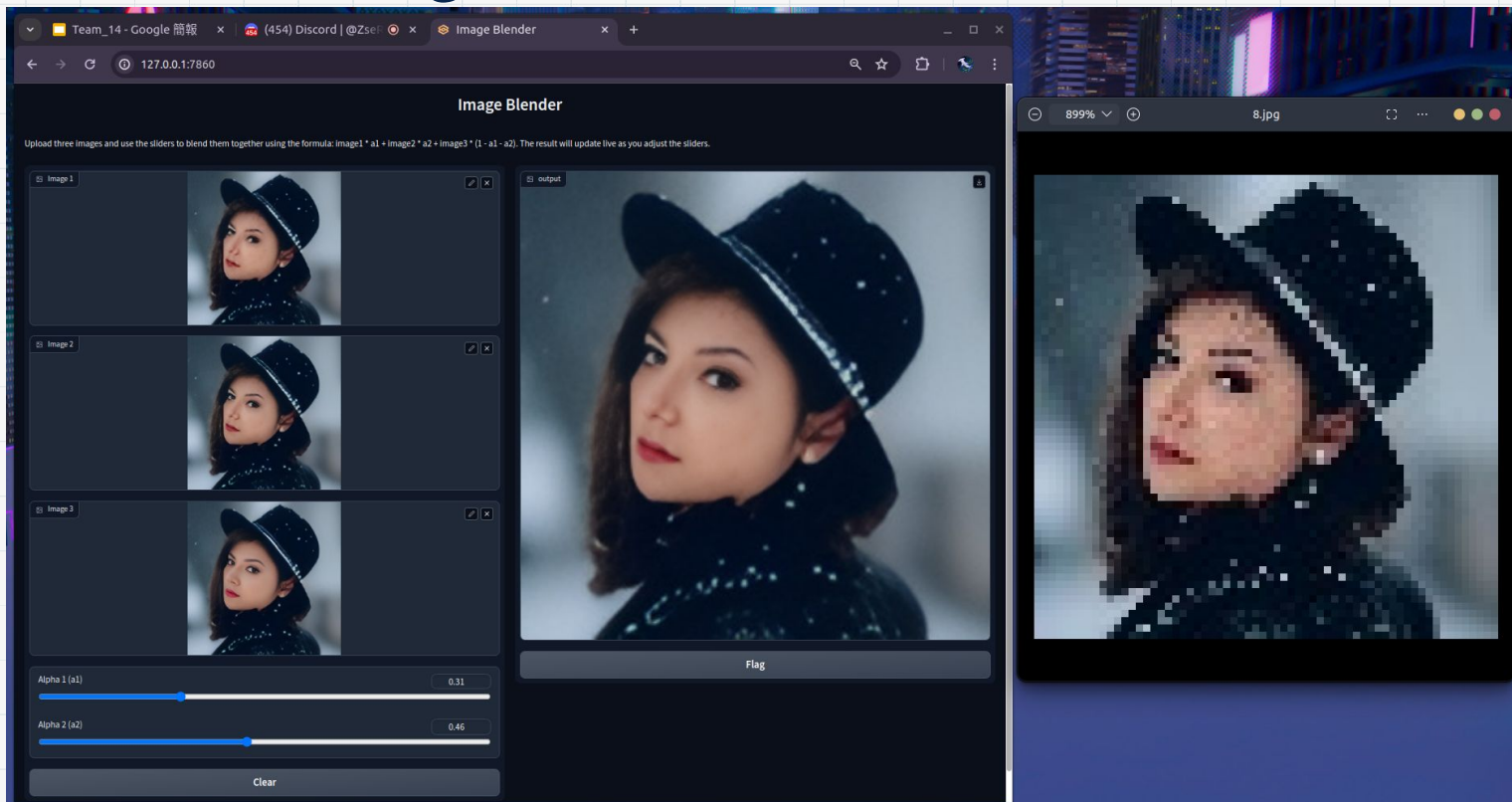
GFPGAN

- Closer to input

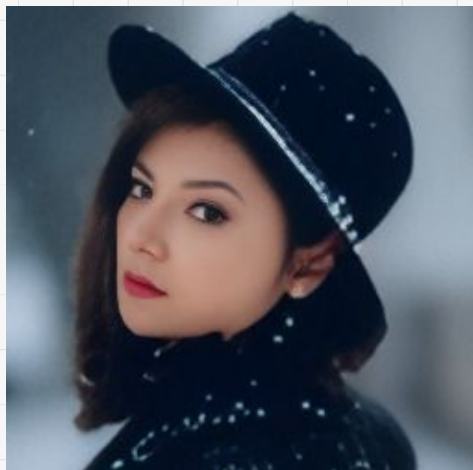
Blend Results



Blend 3 images



Final Results



HAT-GAN

x0.1 +

GFPGAN

x0.15 +

Code Former

x0.75