

CS4442 – Artificial Intelligence II

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1. Results from applying mask:

$$M = \begin{bmatrix} -1 & 0 & 1 \\ -2 & 0 & 2 \\ -1 & 0 & 1 \end{bmatrix}$$



The sum of the absolute values in the output image is: 2309126

2. The sum of the image created with computeEngGradH is: 2148042







The image was as follows:

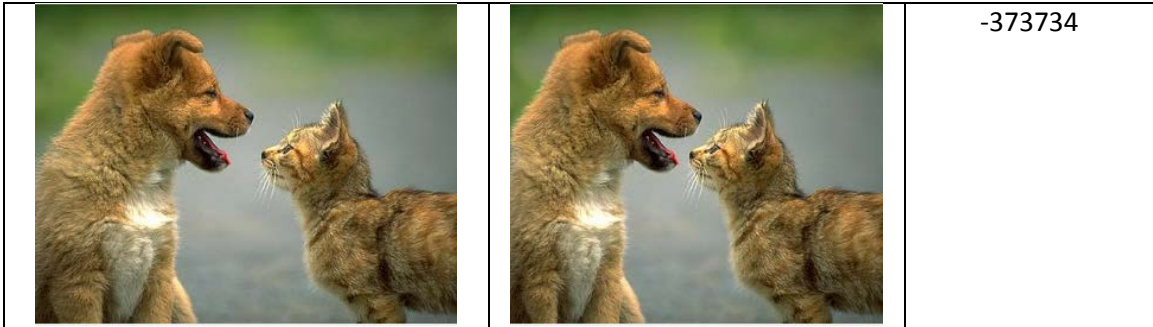


3. Applying computeEngColor to an image with the mask $w = \{1 - 2 1\}$ produced the following image, with a sum of: -3366731

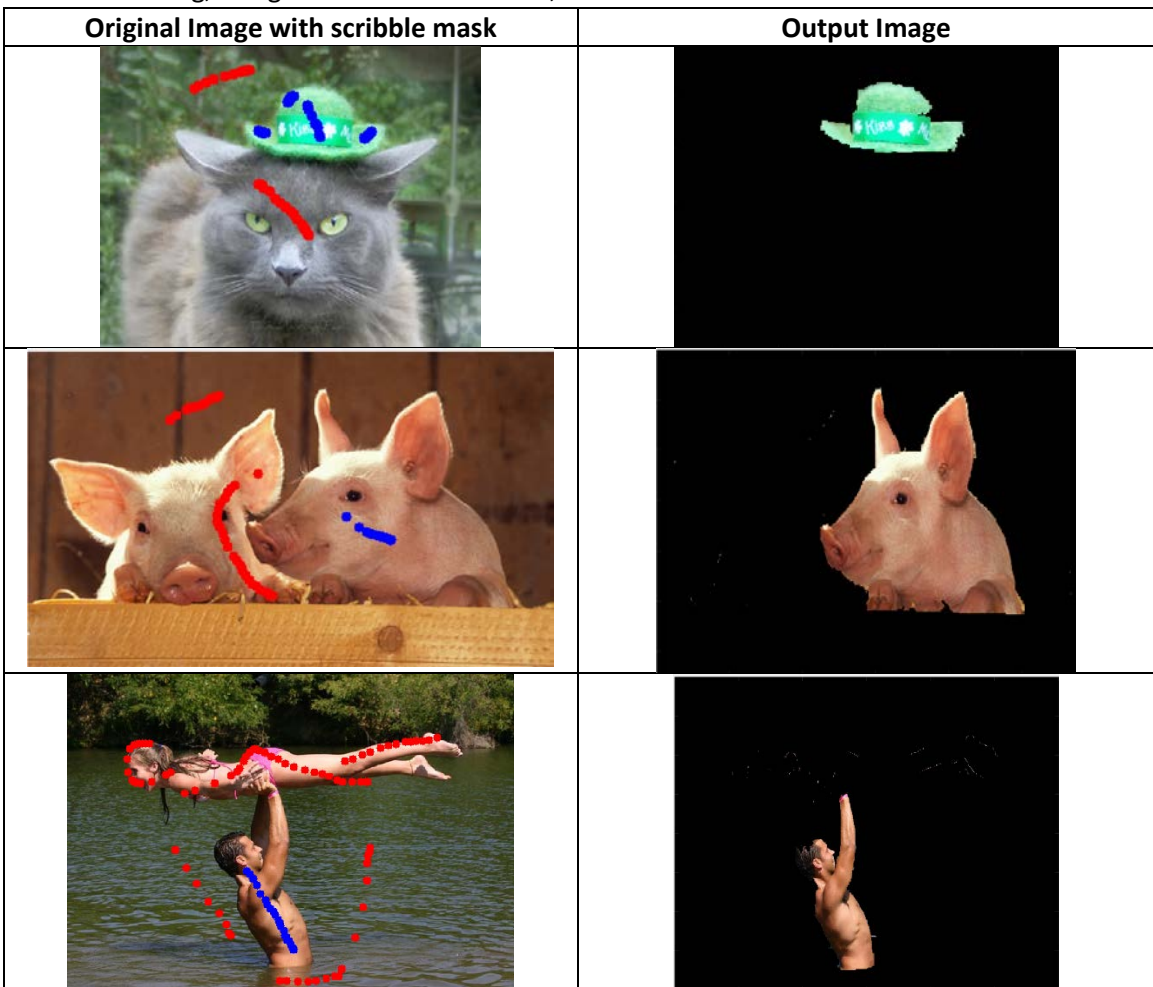


4. The results for applying intelligentResize to 'cat.png' with $v = -20$; $h = -20$ and $w = \{1 \ -2 \ 1\}$, and to 'face.jpg' with $v = -20$; $h = 10$ and $w = \{1 \ -2 \ 1\}$ are as follows:

Original Image		Output Image	Total seam cost
			-912272
			1.740124e+05
For SpingLamb.jpg with $v = 0$, $h = -150$, and $w = \{1 \ -2 \ 1\}$ the results were:			
			-558526
For DogCat.png, taken from the lecture notes, with $v = 0$, $h = -40$ and $w = \{1 \ 2 \ 1\}$ the results:			






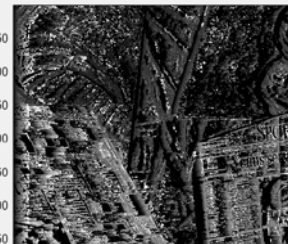
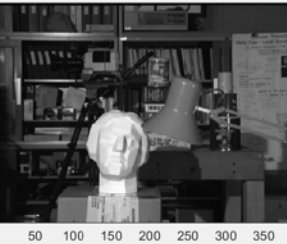
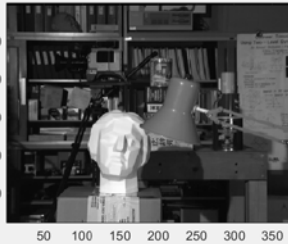
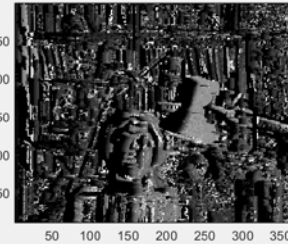
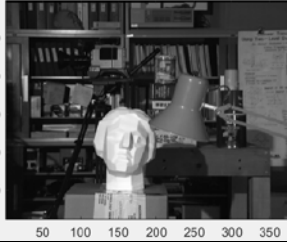
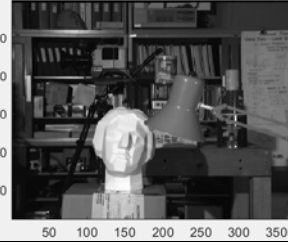
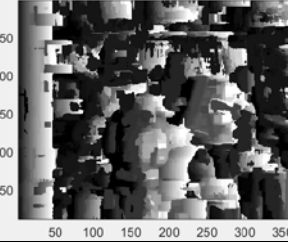


5. For seam carving, using $\lambda = 10$ and $\sigma = 3.14$, the results were as follows:



6. Not completed.

7. The results for this function did not resemble anything from the notes, nevertheless, here are the results:

Params	Images		
wSize = 3 maxDis p = 25			
			
			
wSize = 11 maxDis p = 50			
Results do not look very good, not sure what the issue is.			