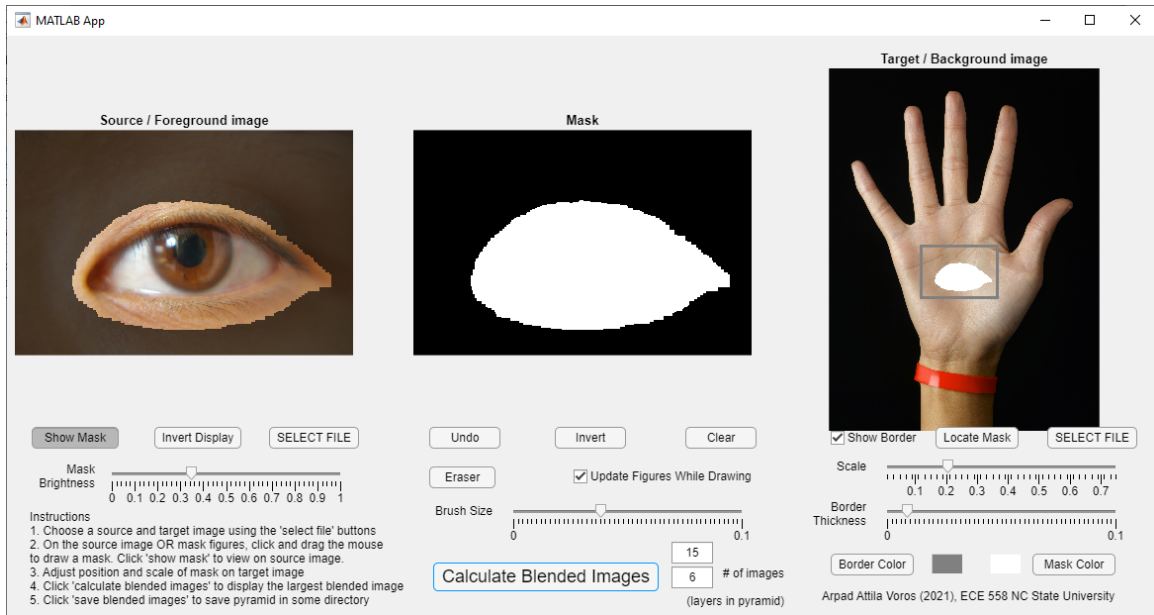



1. The pyramid generator is in `ComputePyr.m`
2. For the mask drawing GUI and the Laplacian pyramid blending, both are in MATLAB app called `proj2ece558.mlapp`. Instructions on how to use are the app itself. Below are some images of the GUI and their outputs. The hand/eye blend was the first instance of the project working.





Source / Foreground image Mask Target / Background image



Mask Brightness: 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Instructions

1. Choose a source and target image using the 'select file' buttons
2. On the source image OR mask figures, click and drag the mouse to draw a mask. Click 'show mask' to view on source image.
3. Adjust position and scale of mask on target image
4. Click 'calculate blended image' to display the blended image
5. Click 'save blended image' to save the image in the current directory

Undo Invert Clear

Eraser Update Figures While Drawing

Brush Size: 0 0.1

Calculate Blended Image 6 # of images (layers in pyramid)

Save Blended Image

Show Border Locate Mask SELECT FILE

Scale: 0 0.1 0.2 0.3 0.4 0.5


Border Thickness: 0 0.1

Border Color: Mask Color


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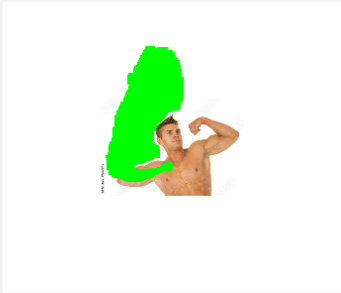
Source / Foreground image



Mask



Target / Background image



Show Mask Invert Display SELECT FILE

Display Brightness: 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Instructions

1. Choose a source and target image using the 'select file' buttons
2. On the source image OR mask figures, click and drag the mouse to draw a mask. Click 'show mask' to view on source image.
3. Adjust position and scale of mask on target image
4. Click 'calculate blended image' to display the blended image
5. Click 'save blended image' to save the image in the current directory

Undo Invert Clear

Eraser Update Figures While Drawing

Brush Size: 0 0.1

Calculate Blended Image 10 # of images (layers in pyramid)

Save Blended Image

Show Border Locate Mask SELECT FILE

Scale: 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8

Border Thickness: 0 0.1

Border Color: Mask Color:

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Source / Foreground image Mask Target / Background image

Instructions

1. Choose a source and target image using the 'select file' buttons
2. On the source image OR mask figures, click and drag the mouse to draw a mask. Click 'show mask' to view on source image.
3. Adjust position and scale of mask on target image
4. Click 'calculate blended images' to display the largest blended image
5. Click 'save blended images' to save pyramid in current directory

Mask Brightness: 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Brush Size: 0 0.1

Calculate Blended Image 6 # of images (layers in pyramid)

Save Blended Image

Show Mask Invert Display SELECT FILE Undo Invert Clear Show Border Locate Mask SELECT FILE

Scale: 0 0.1 0.2 0.3 0.4 0.5 0.6

Border Thickness: 0 0.1

Border Color Mask Color


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Since the colour of the sky behind the source image is somewhat uniform, but the colour of the sky in the target image has a vertical gradient, the top part of the blended masked-source image seems brighter on top. I tried to move the mask down, but I got a similar result:



Source / Foreground image




Show Mask Invert Display SELECT FILE

Display Brightness

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Mask



Undo Invert Clear

Eraser Update Figures While Drawing

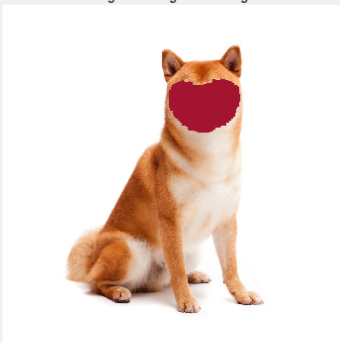
Brush Size

0 0.1

Calculate Blended Image 15 # of images (layers in pyramid)

Save Blended Image

Target / Background image



Show Border Locate Mask SELECT FILE

Scale

0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Border Thickness

0 0.1

Border Color Mask Color


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Instructions

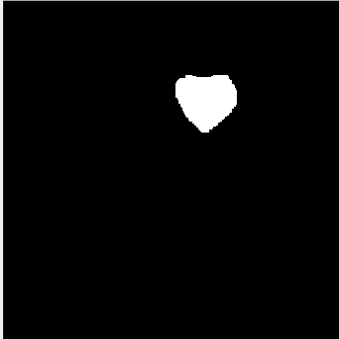
1. Choose a source and target image using the 'select file' buttons
2. On the source image OR mask figures, click and drag the mouse to draw a mask. Click 'show mask' to view on source image.
3. Adjust position and scale of mask on target image
4. Click 'calculate blended image' to display the blended image
5. Click 'save blended image' to save the image in the current directory



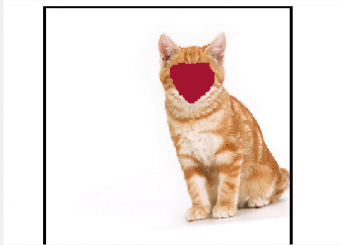
Source / Foreground image



Mask



Target / Background image



Show Mask Invert Display SELECT FILE

Display Brightness 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

Instructions

1. Choose a source and target image using the 'select file' buttons
2. On the source image OR mask figures, click and drag the mouse to draw a mask. Click 'show mask' to view on source image.
3. Adjust position and scale of mask on target image
4. Click 'calculate blended image' to display the blended image
5. Click 'save blended image' to save the image in the current directory

Undo Invert Clear

Eraser Update Figures While Drawing

Brush Size 0 0.1

Calculate Blended Image 9 # of images (layers in pyramid)

Save Blended Image

Show Border Locate Mask SELECT FILE

Scale 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7

Border Thickness 0 0.1

Border Color Mask Color

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