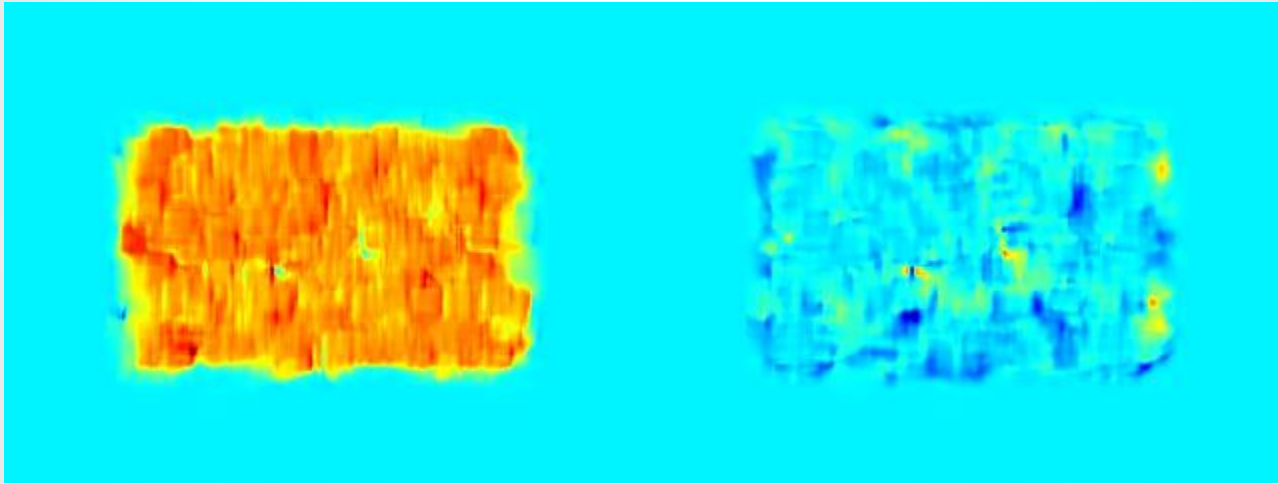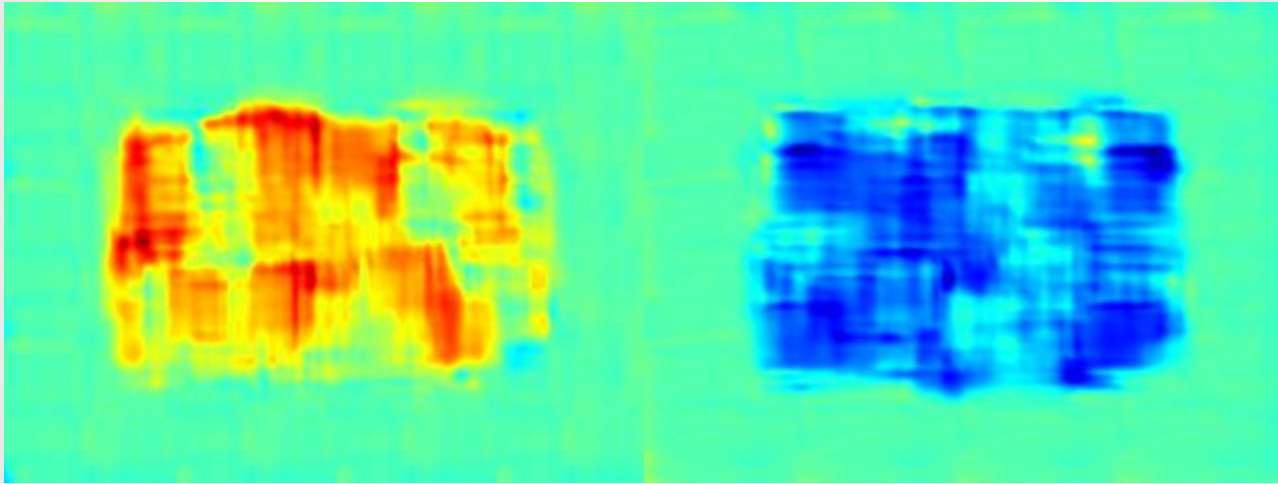# Computer Vision
Spring 2017
Problem Set #6

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1a: Base Shift0 and ShiftR2

Base Shift0 and ShiftR2 pair image - **ps6-1-a-1.png**

1a: Base Shift0 and ShiftR5U5 (cont.)

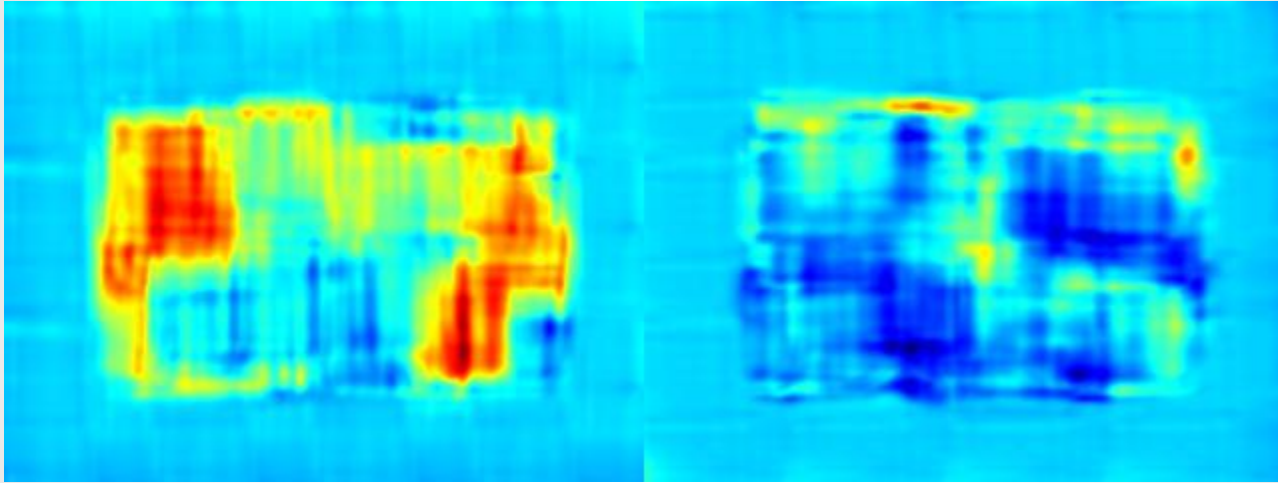Base Shift0 and ShiftR5U5 pair image - **ps6-1-a-2.png**

1a: Text Response (cont.)

Describe your results. Did you blur the images? If so, by how much?

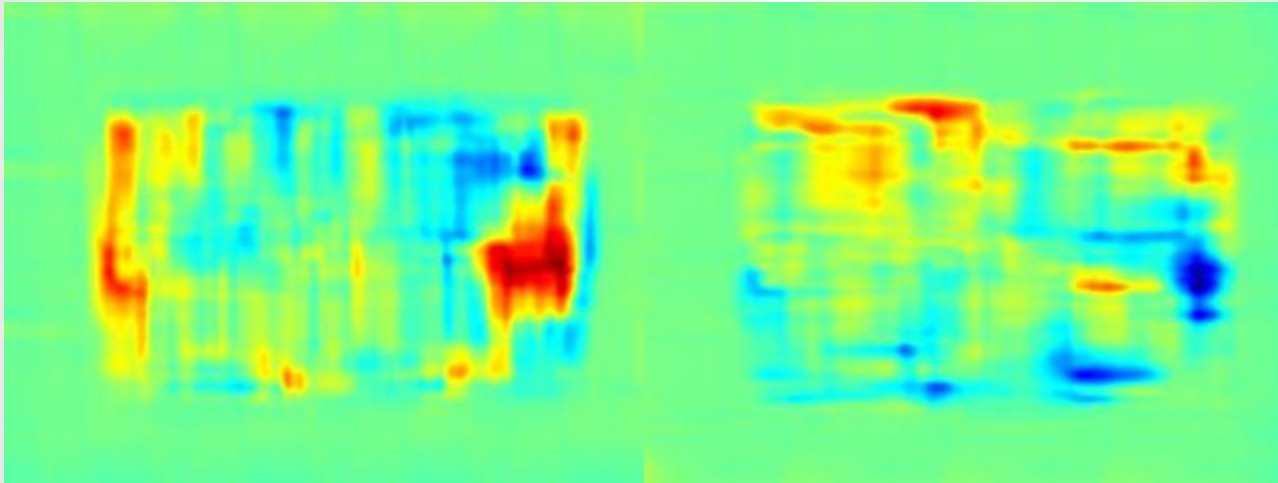Yes, I used the default 7x7 gaussian.

The edges became less aparent while the colored area became uniform in color by increasing the k_size to around 32

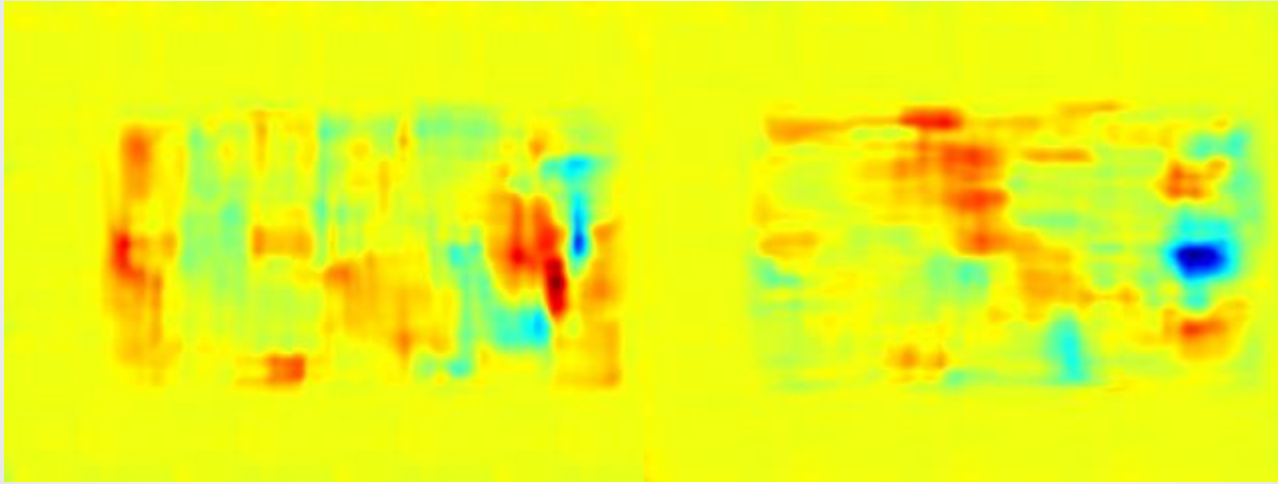# 1b: Base Shift0 and ShiftR10

Base Shift0 and ShiftR10 pair image - **ps6-1-b-1.png**

1b: Base Shift0 and ShiftR20 (cont.)

Base Shift0 and ShiftR20 pair image - **ps6-1-b-2.png**

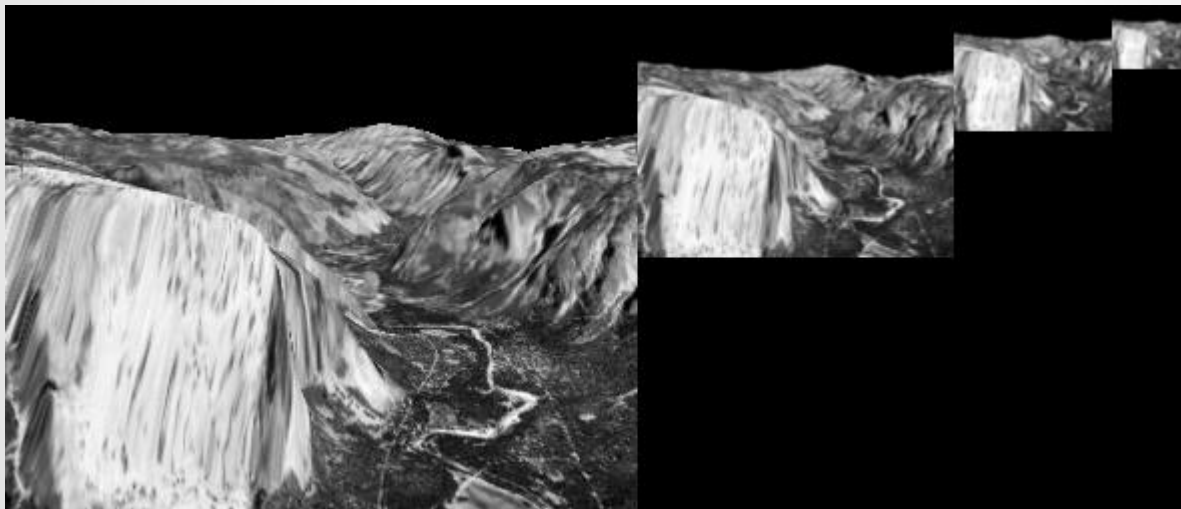# 1b: Base Shift0 and ShiftR40 (cont.)

Base Shift0 and ShiftR40 pair image - **ps6-1-b-3.png**

1b: Text Response (cont.)

Describe your results. Using the same amount of blurring in 1a, did this still work? Do your results fall apart on any of the pairs?
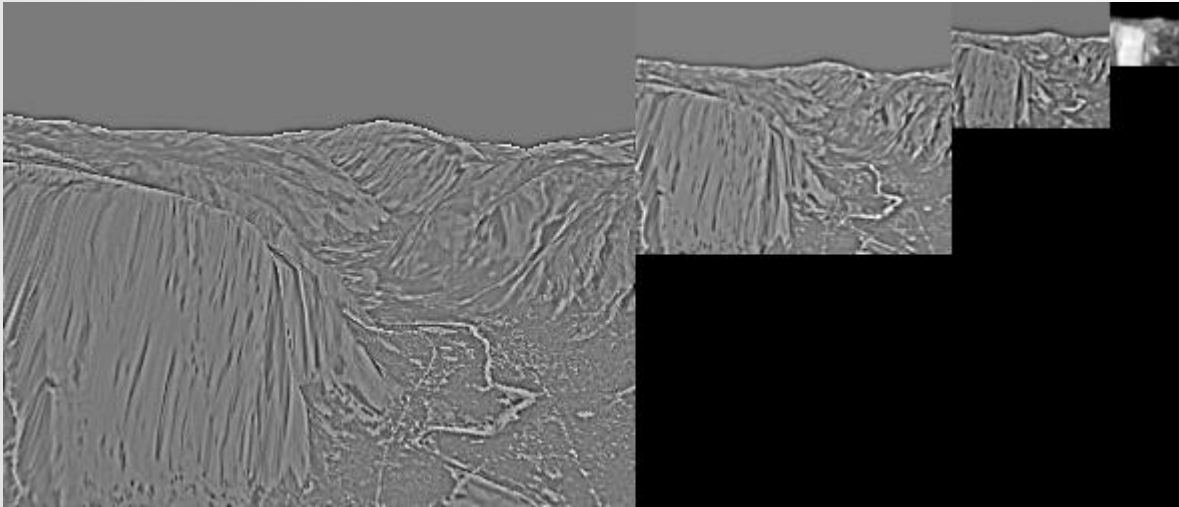
The blur did not have an effect similar to 1a. Where it was noticed that as the shift increased, the result degraded in quality. I tried increasing values from 3 up to 50.
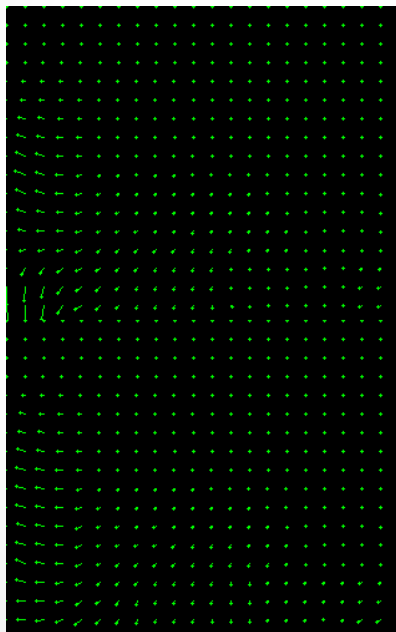
2a: Gaussian Pyramid

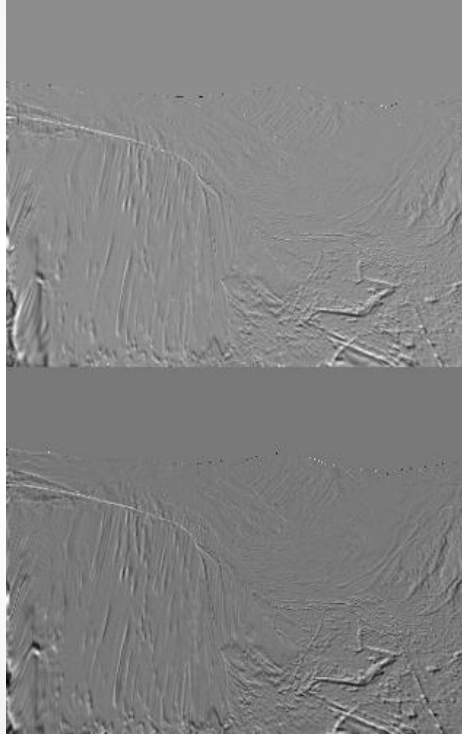Gaussian Pyramid Image - **ps6-2-a-1.png**

2b: Laplacian Pyramid

Laplacian Pyramid Image - **ps6-2-b-1.png**
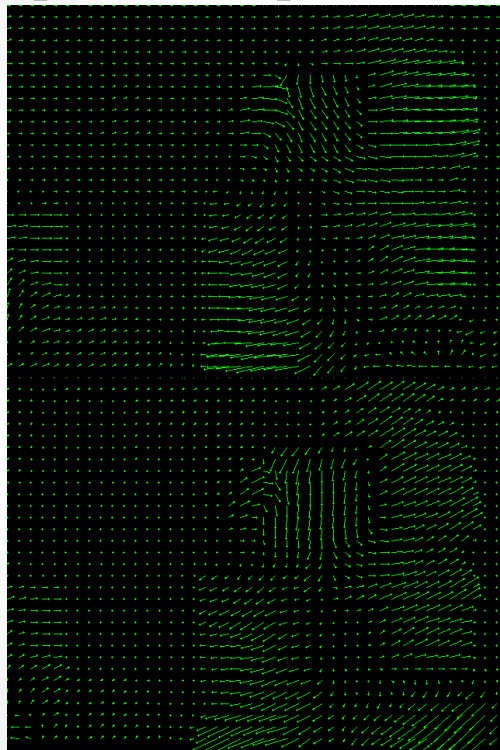
3a: DataSeq1 displacements

DataSeq1 displacement image - **ps6-3-a-1.png**

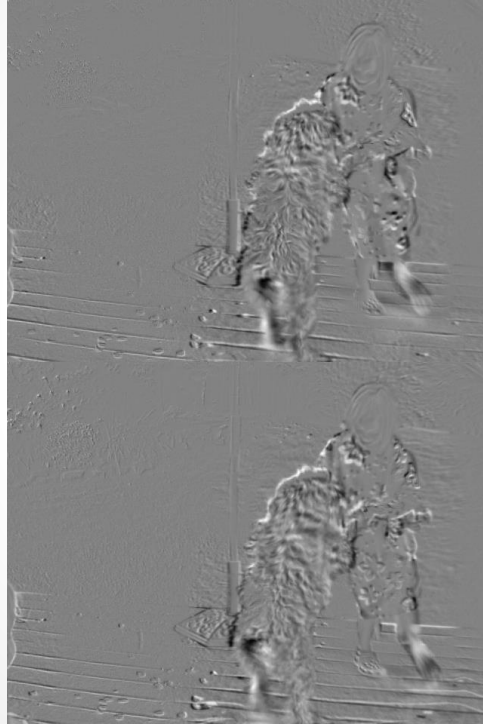# 3a: DataSeq1 Difference (cont.)

DataSeq1 difference image - **ps6-3-a-2.png**
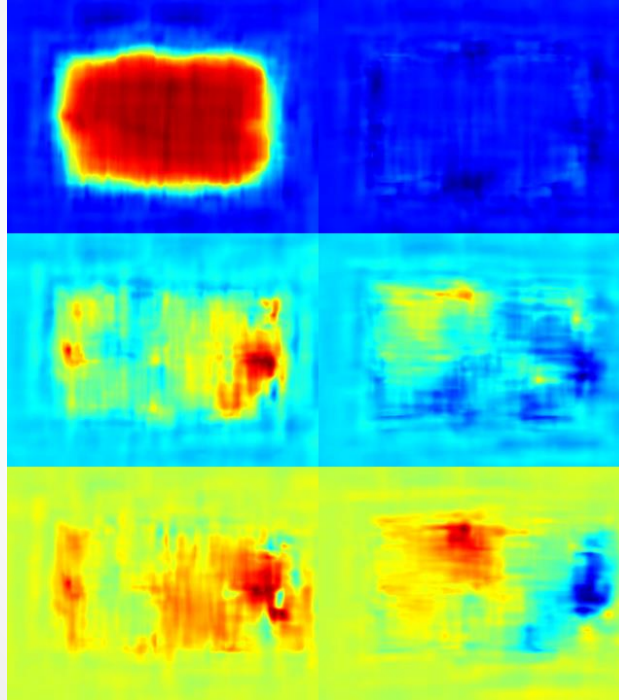
3a: DataSeq2 displacements (cont.)

DataSeq2 displacement image - **ps6-3-a-3.png**
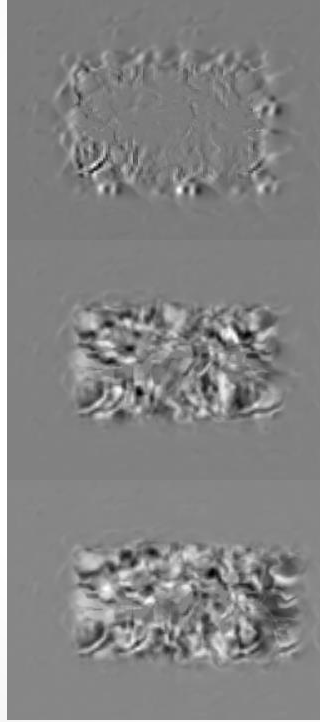
3a: DataSeq2 Difference (cont.)

DataSeq2 difference image - **ps6-3-a-4.png**
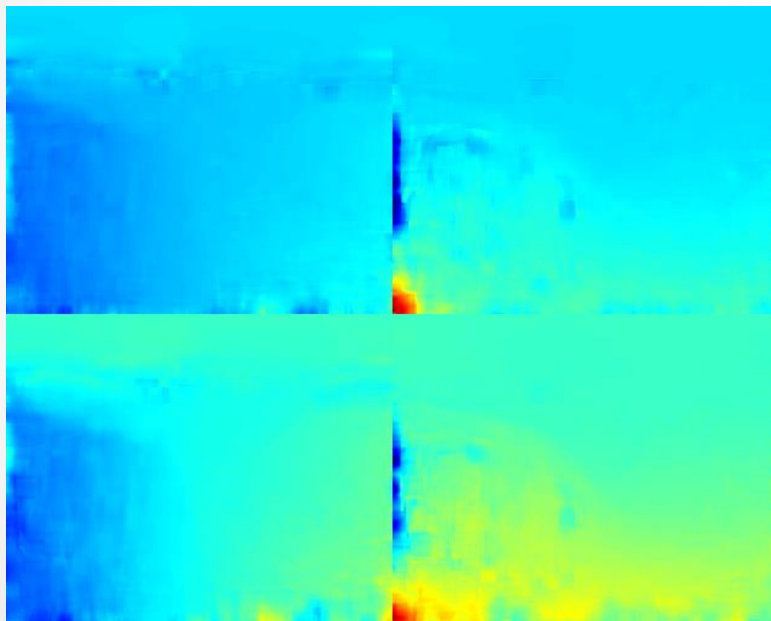
4a: TestSeq displacements

TestSeq displacement image - **ps6-4-a-1.png**
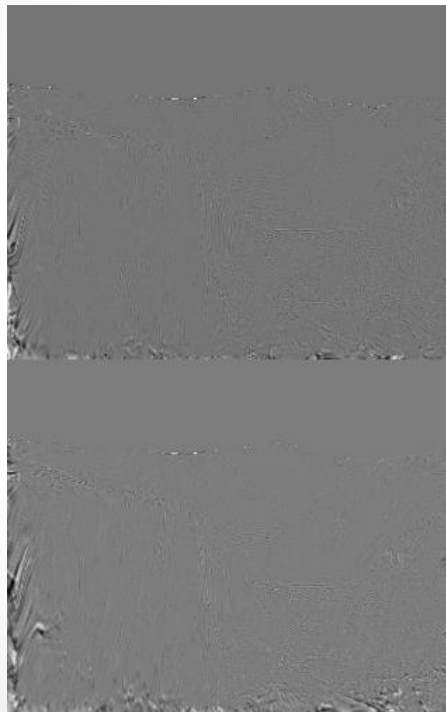
4a: TestSeq difference (cont.)

TestSeq1 difference image - **ps6-4-a-2.png**
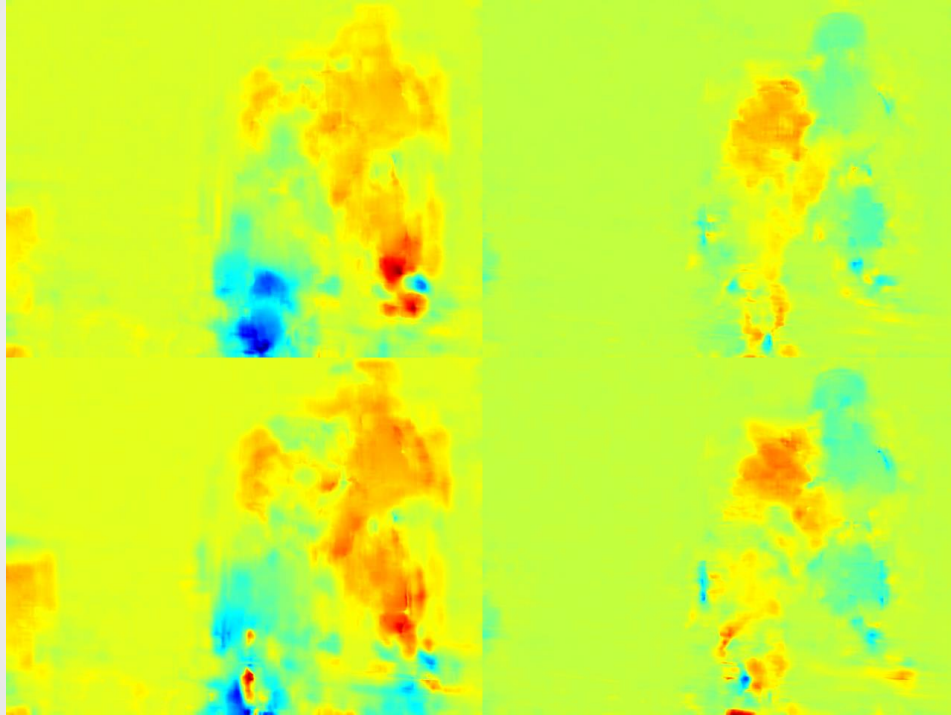
4b: DataSeq1 displacements

DataSeq1 displacement image **- ps6-4-b-1.png**
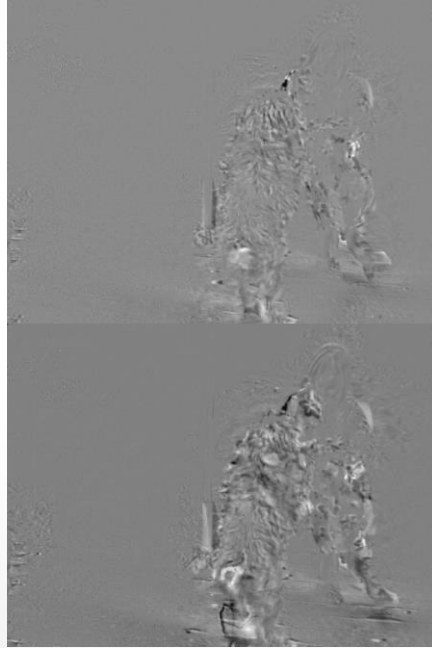
4b: DataSeq1 difference (cont.)

DataSeq1 difference image - **ps6-4-b-2.png**
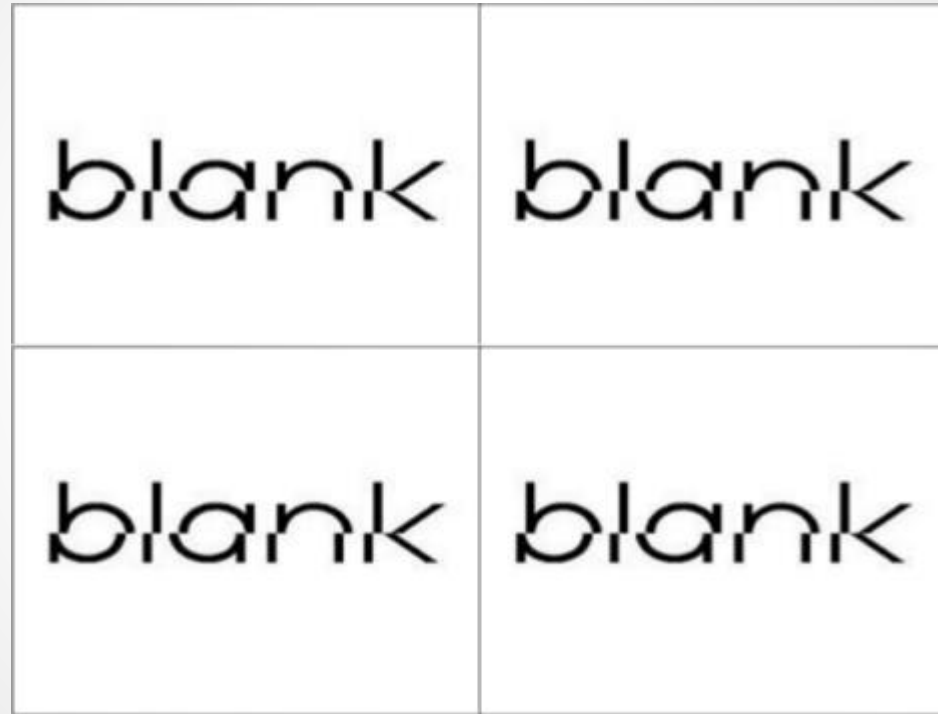
4c: DataSeq2 displacements

DataSeq2 displacement image - **ps6-4-c-1.png**
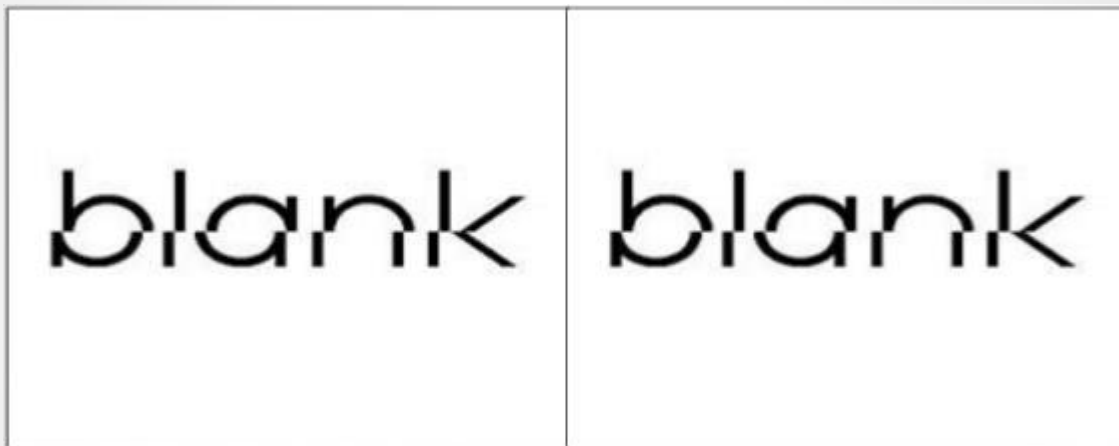
4c: DataSeq2 difference (cont.)

DataSeq2 difference image - **ps6-4-c-2.png**

5a: Juggle displacement CHALLENGE

Juggle displacement image - **ps6-5-a-1.png**

5a: Juggle Difference (cont.)

Juggle difference image - **ps6-5-a-2.png**

5a: Text response (cont.)

Describe your results. What did you do to get these results?