

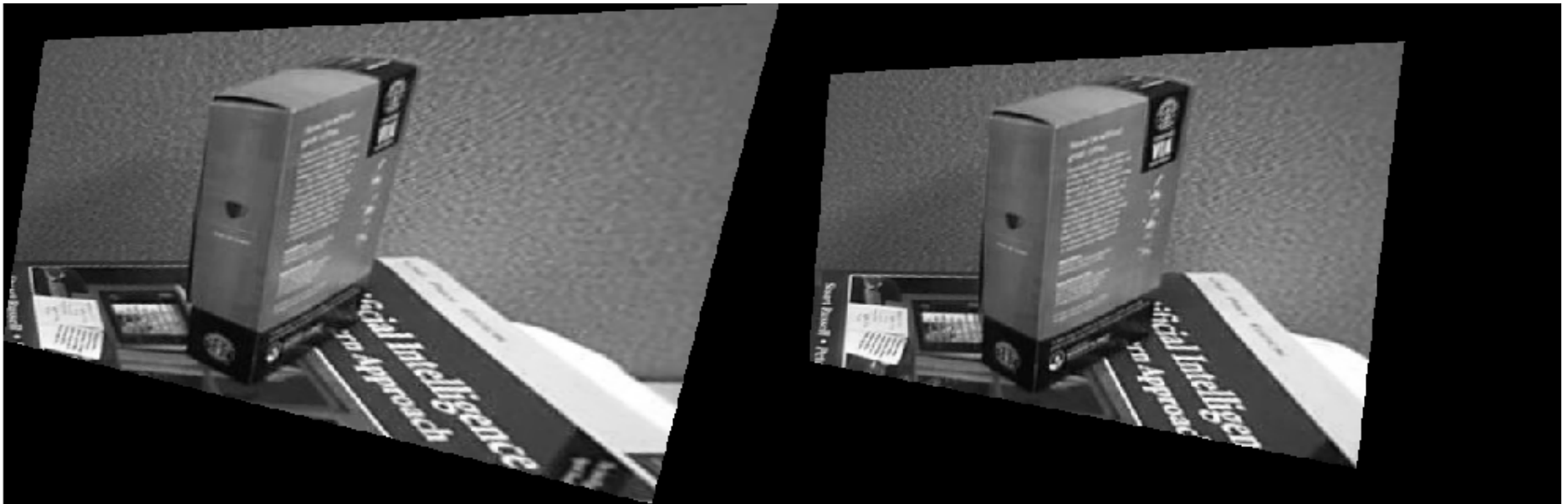
Project Presentation – Week 8

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For UCF REU in Computer Vision, Summer 2010

Last Week

- Switched to calibrated camera model
- Was having trouble rectifying images
 - Often off by up to 10 scanlines



Rectification... FIX'D (and now in Technicolor)

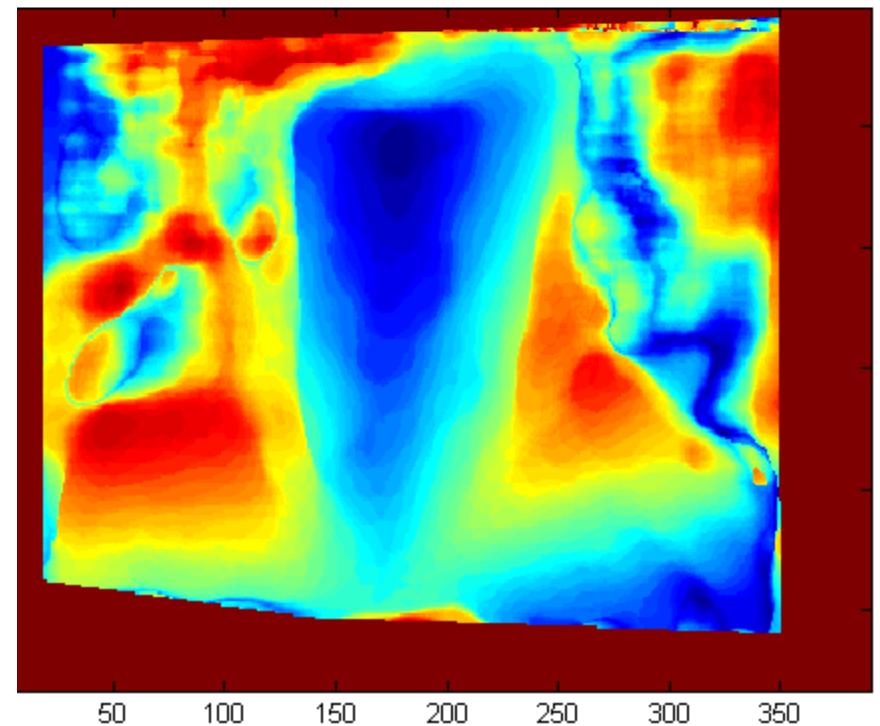
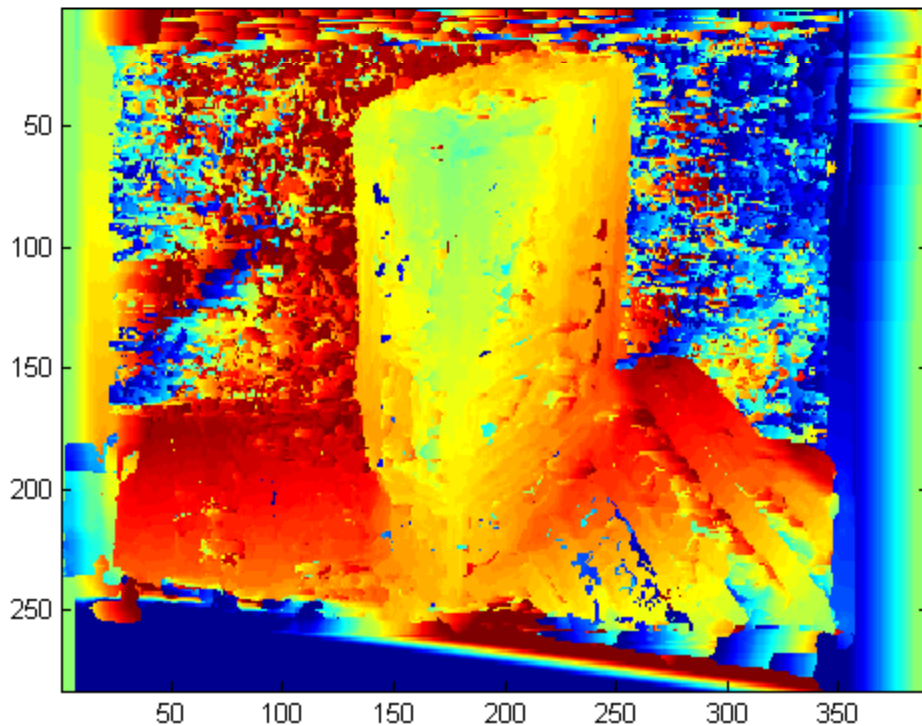


Disparity

- Measuring the amount of movement (in pixels) between the two rectified images
 - Inversely proportional to the depth of the image (low disparity = far, high disparity = close)
- We can do this by “sliding” the left image over the right image, subtracting, and saving the lowest (closest to zero) results
 - DEMO'D

Disparity cont'd

- Essentially, disparity will give us dense correspondence



3D DEMO'D

- Noisy, but not terrible (the “essence” of the scene is captured)