

# REU Week 6

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# Plans

- Review Lam's code
  - 1) Increase understanding of our DfD method
  - 2) Modify and experiment
- Compare our results to Seitz and Baker's Filter Flow method
- Learn good smoothness weighting
  - Find pattern between image qualities and optimal weights

# Smoothness

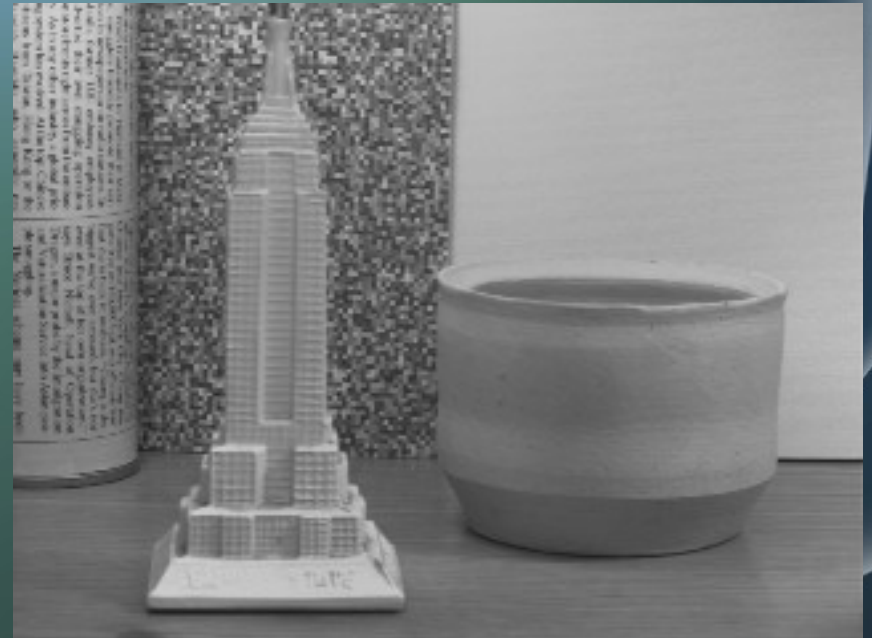
- When we evaluate the amount of blur in an image, it should vary smoothly
- Obviously, some will be smoother than others
- How do we blindly determine optimal weighting?
  - Gradient?
  - Derivatives?
  - Other image qualities?
- Current focus is to learn about this and compare our current results to other work.

# Current Results

Front Focus



Rear Focus



# Current Results

Our Method



Filter Flow



Not so good...

# Current Results

Front Focus

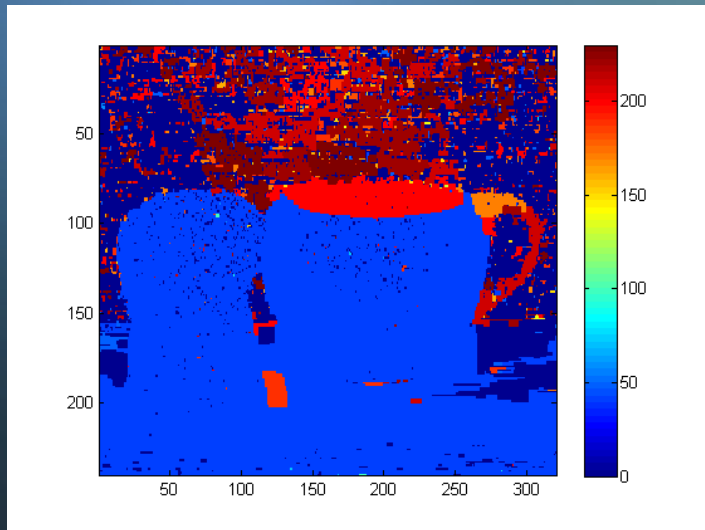


Rear Focus

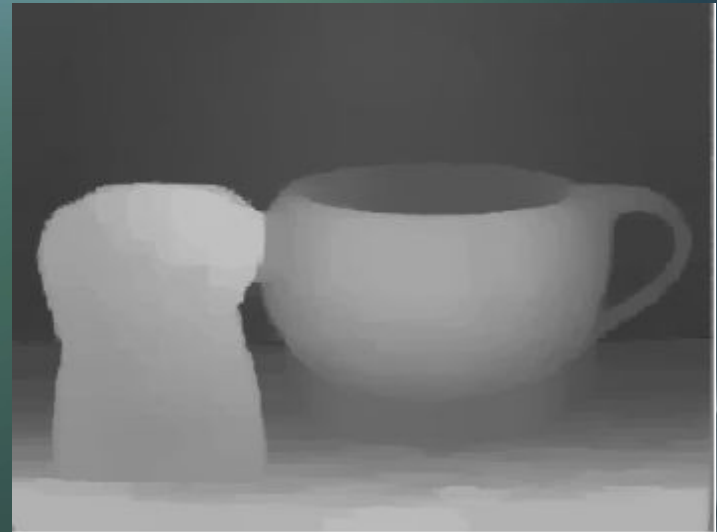


# Current Results

Our Method – Lam’s results

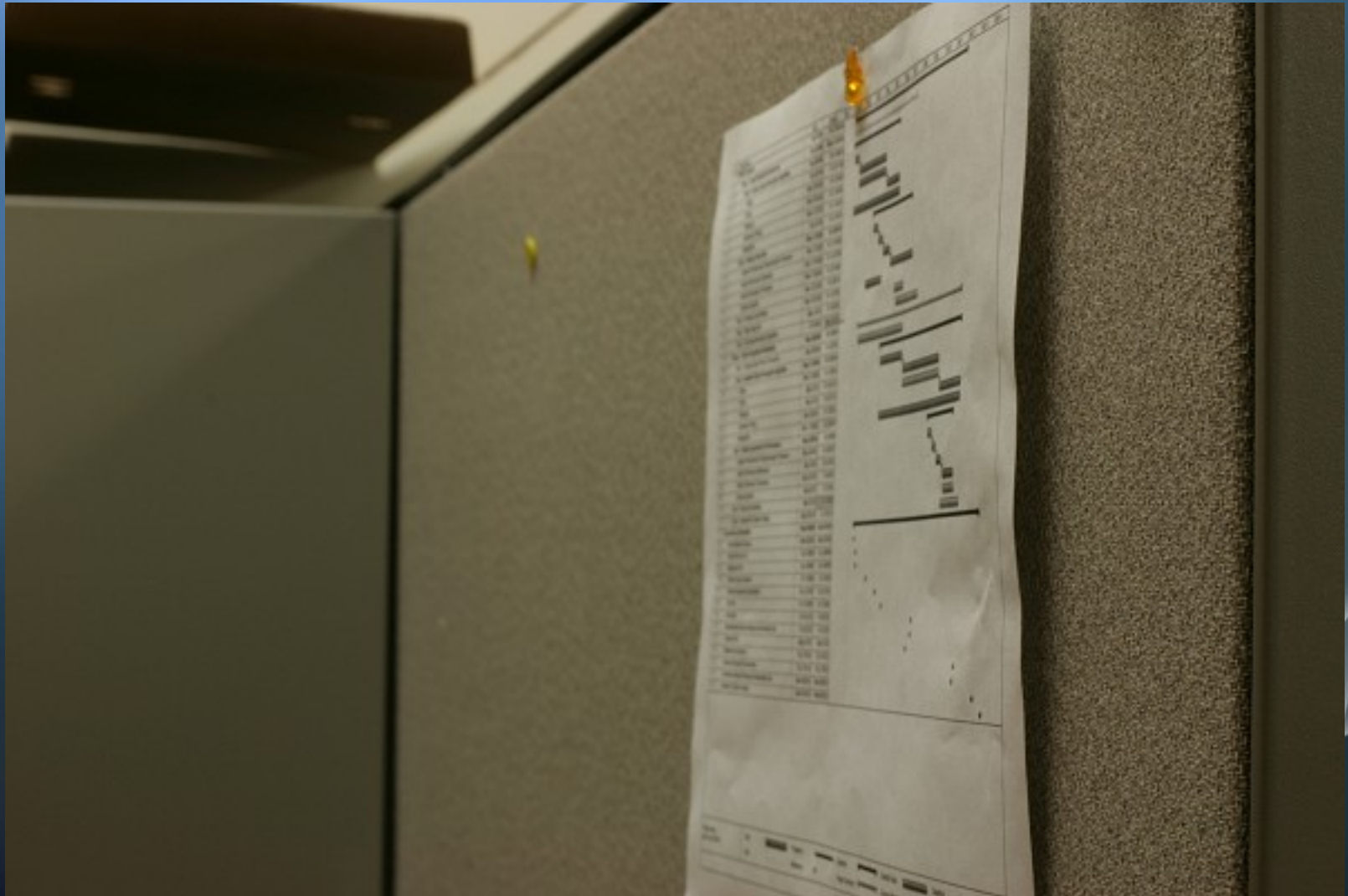


Filter Flow



Better, but still needs improvement

# More results

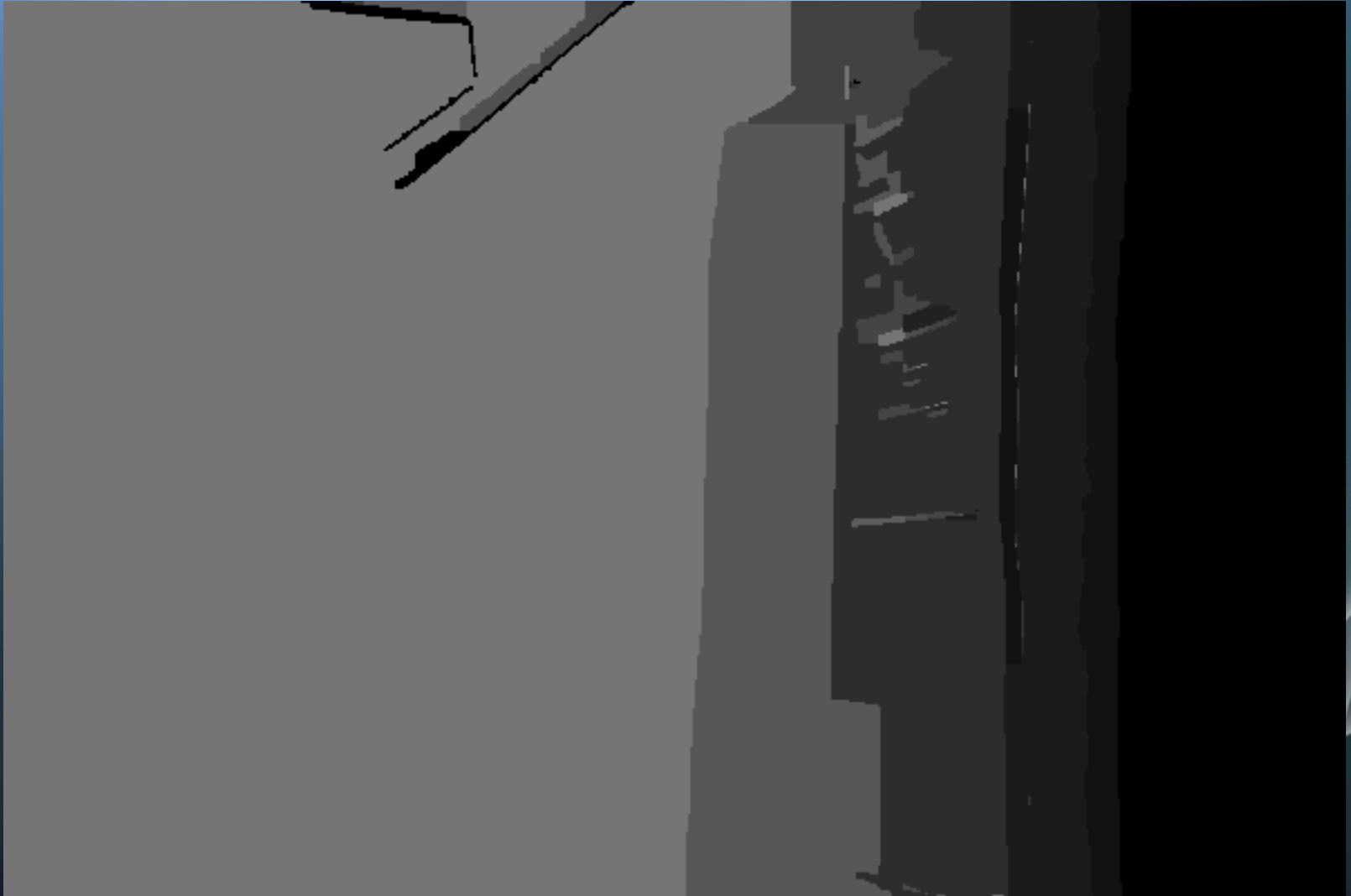




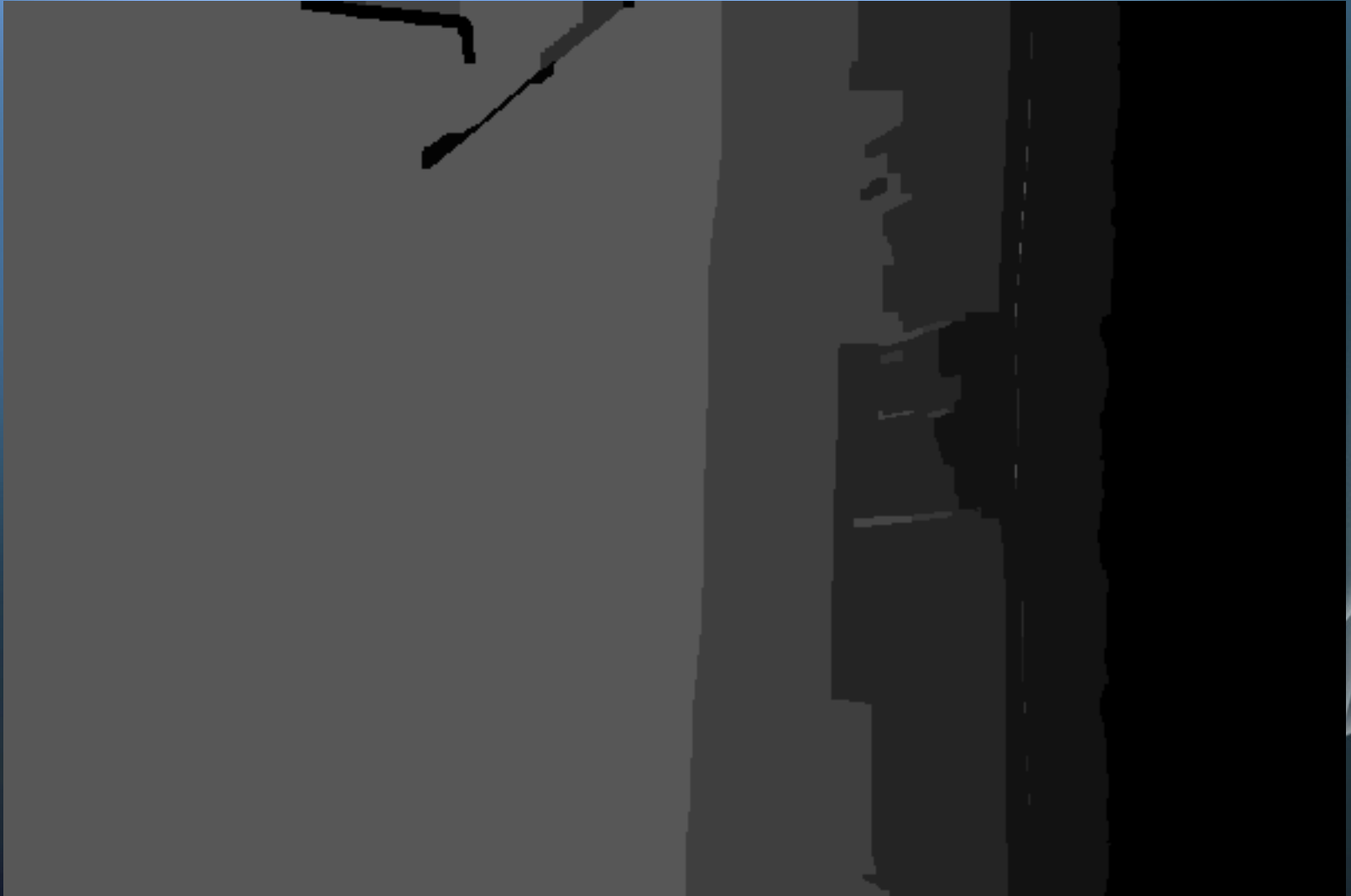
# More results



# More results



# More results



# More results



# More results



Cool!

