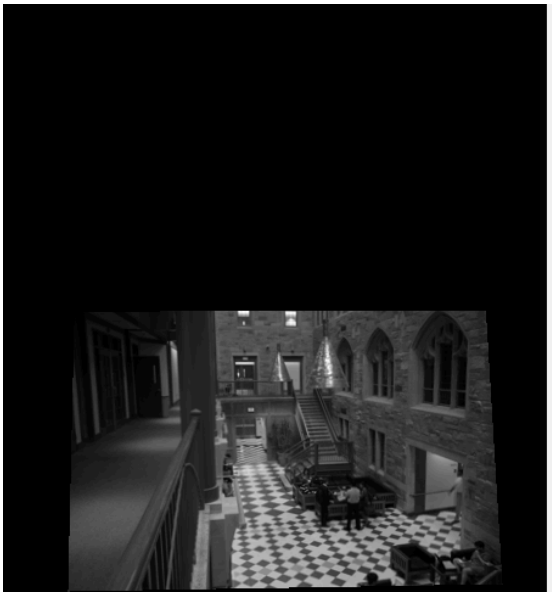
Project 3: Homographies

Sample Pictures: Atrium

Mosaic Pieces After Warping



Mosaic Before Blending

This looks great!
The images may look a little blurrier than usual because I down sampled to 10% of the original image. My poor mac book air can't take all of this.

Blended Assembly

Pieces

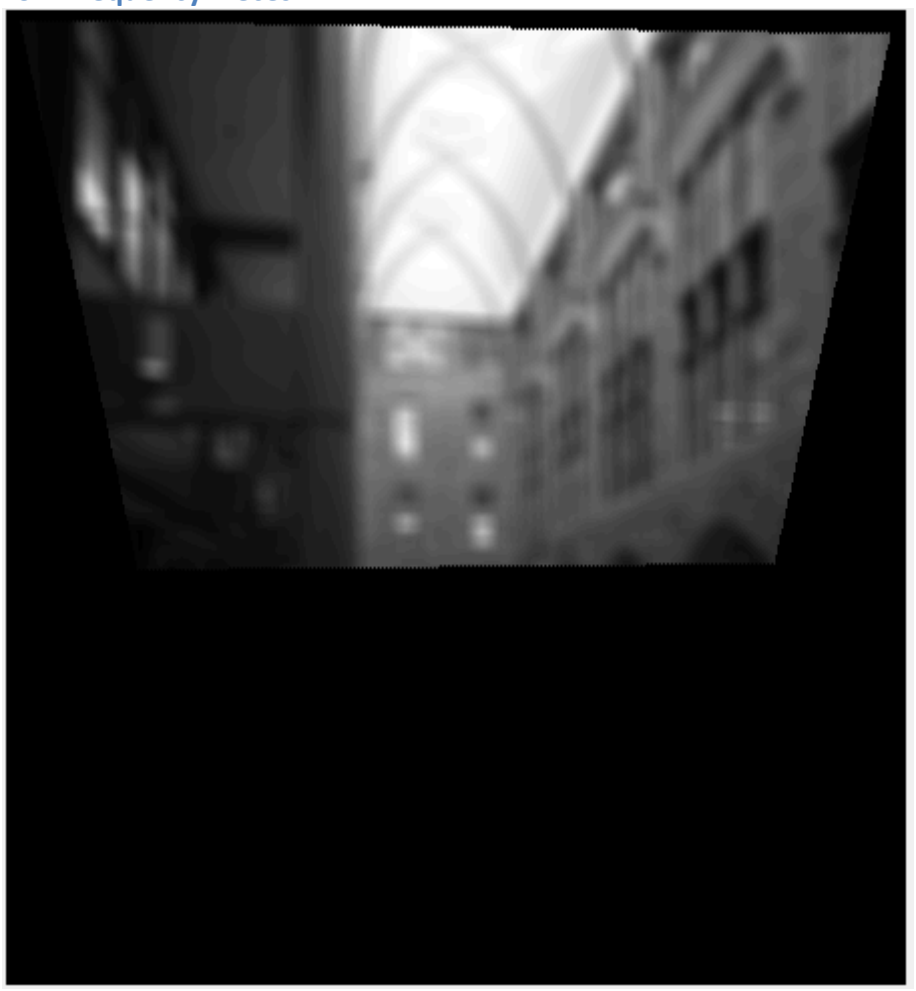
I have no idea why the overlapping regions are darker. I normalized them, but I guess I shouldn't add the same pixels to each other over and over again?

Final Blended Mosaic

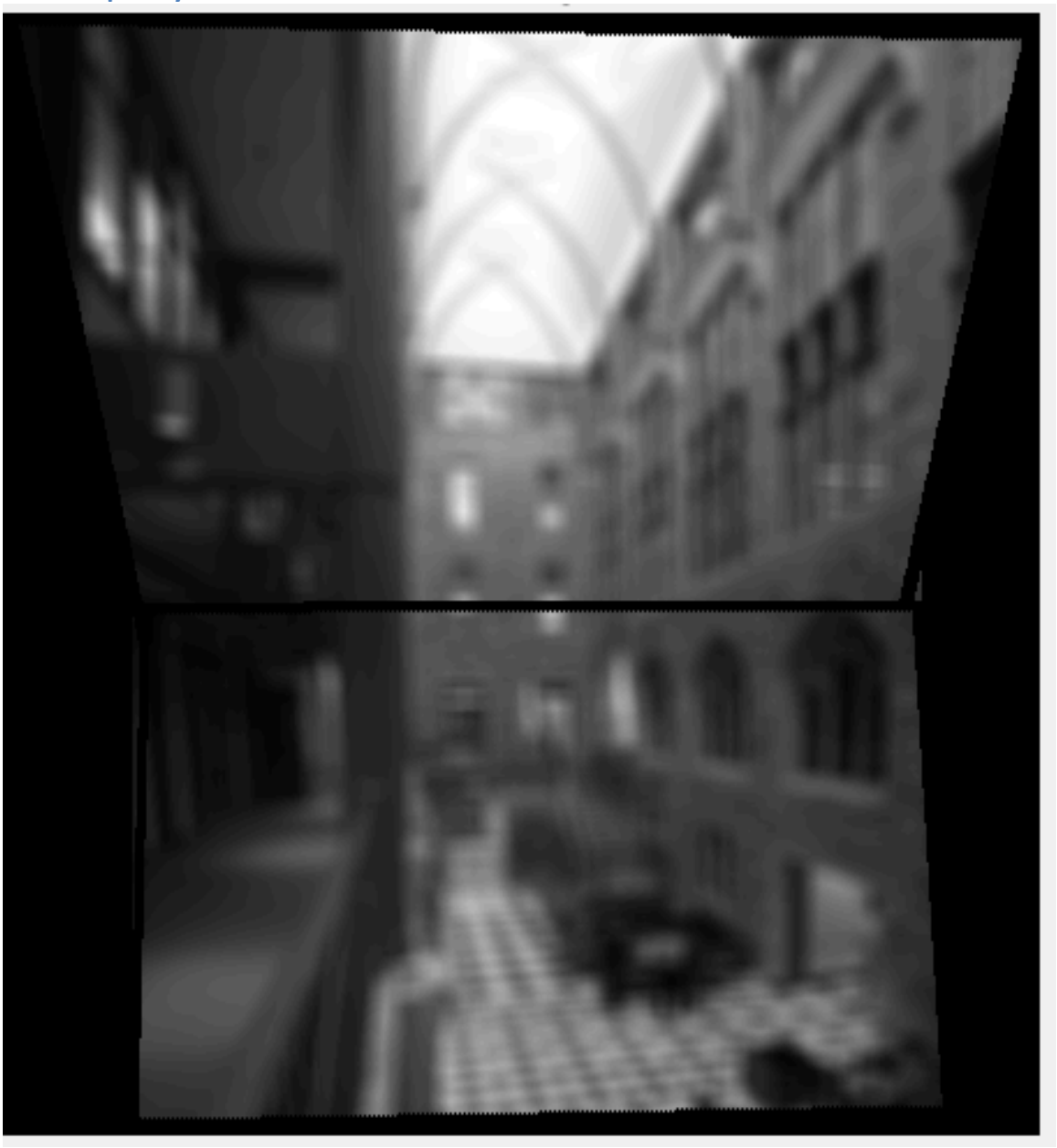
I don’t think the blending does much for me.

Two Band Blending

Low Frequency Pieces



Low Frequency Mosaic



For some reason, there are black borders where the images overlap.

High Frequency Mosaic

This looks great, I love it.

Low and High Frequency Mosaics Added Together

Wow, simply adding the two low and high frequencies together can help blend, why go through all that messy homography stuff.

My Pictures: Drinkward Dorm at Harvey Mudd College

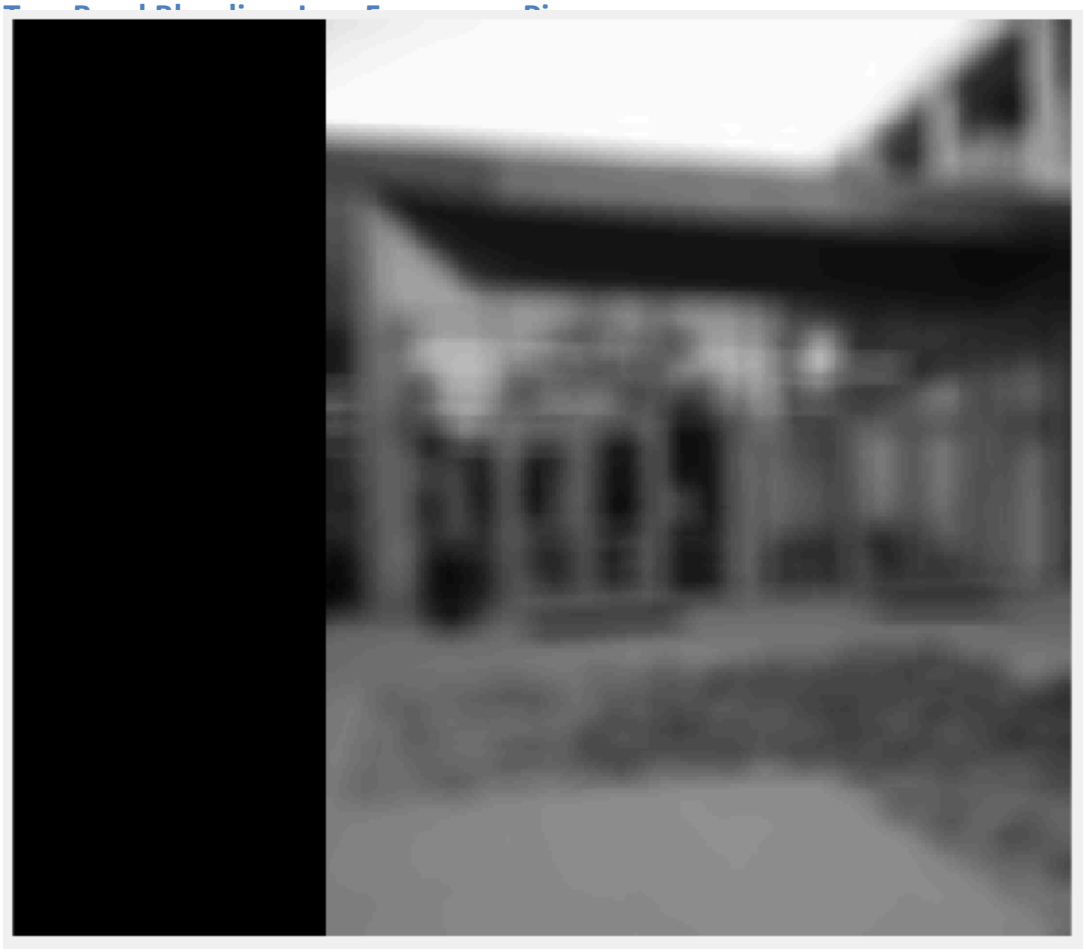
Mosaic Pieces After Warping

I am not creative and took pictures of buildings because they have a lot of corners.

Mosaic Before Blending

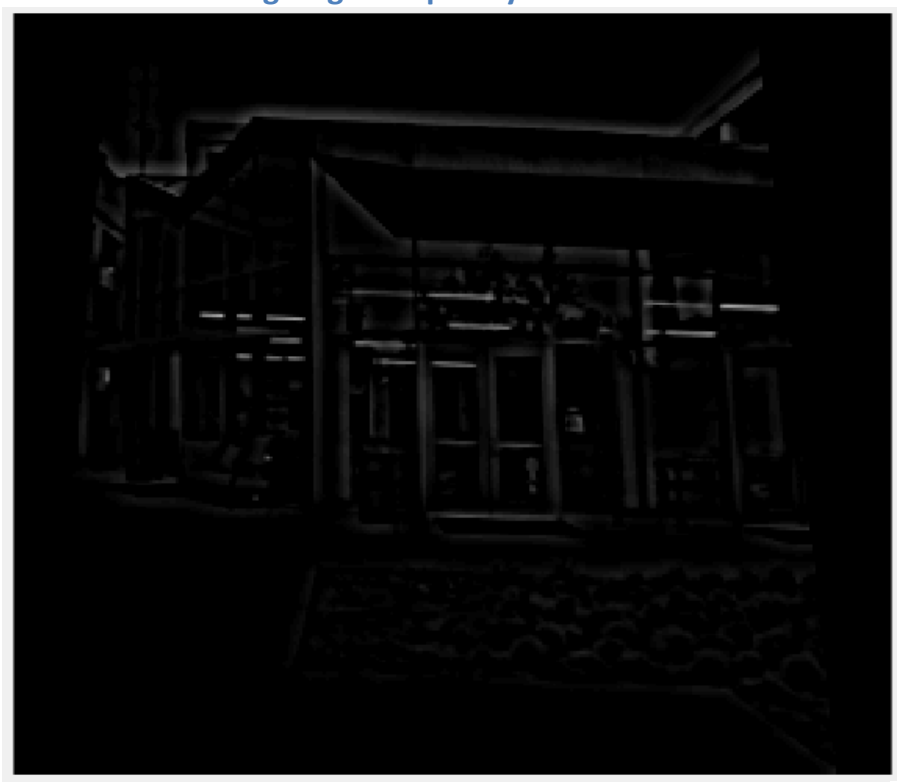
Blended Assembly: Pieces

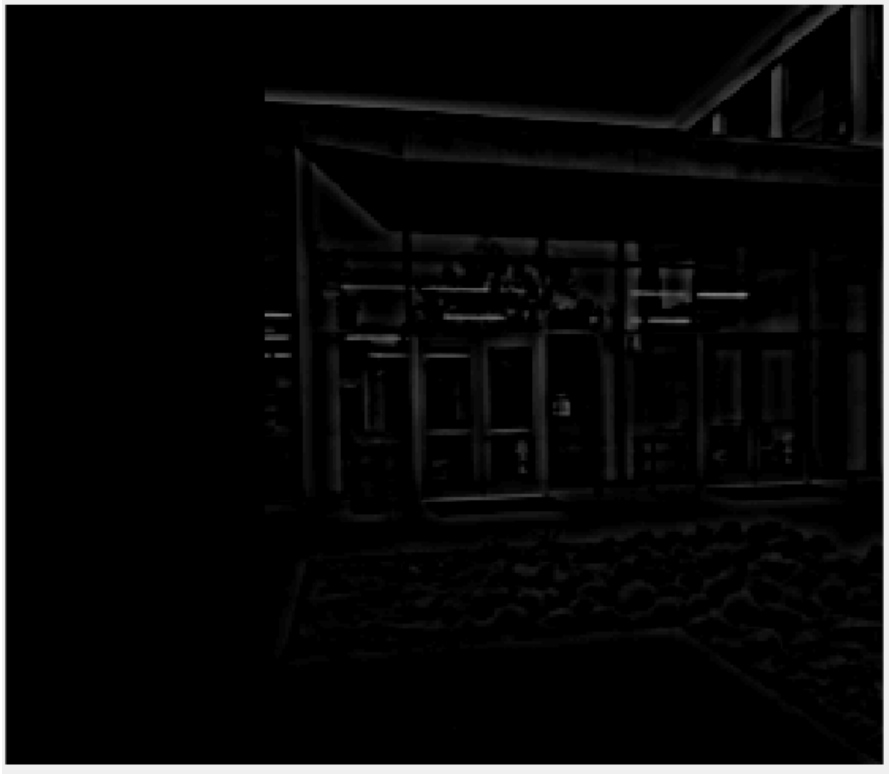
Blended Assembly Mosaic



Two Band Blending: Low Frequency Mosaic

Two Band Blending: High Frequency Pieces



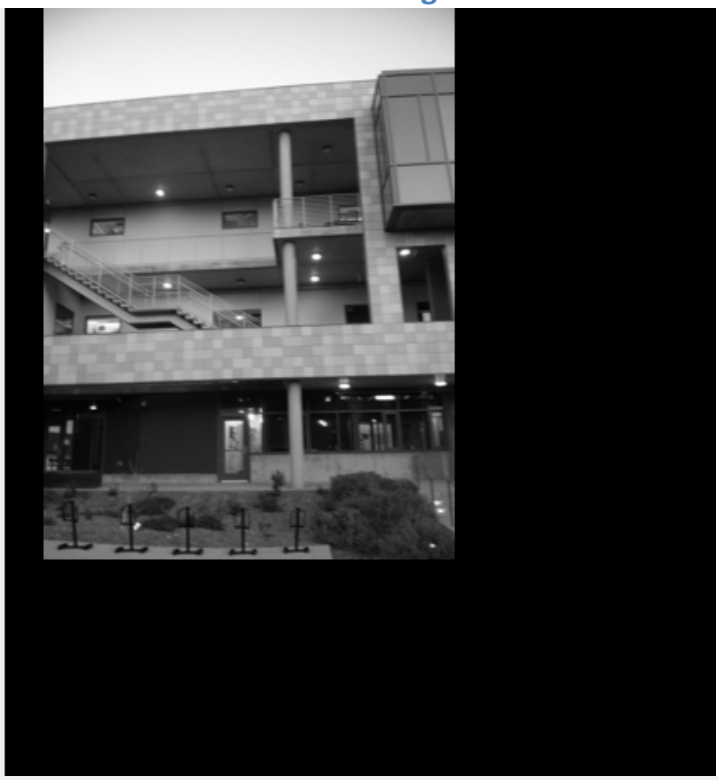


Two Band Blending: High Frequency Mosaic

Two Band Blending: Low and High Frequency Added Together

My Pictures: Shanahan Building at HMC

Mosaic Pieces Before Blending



Mosaic Without Blending

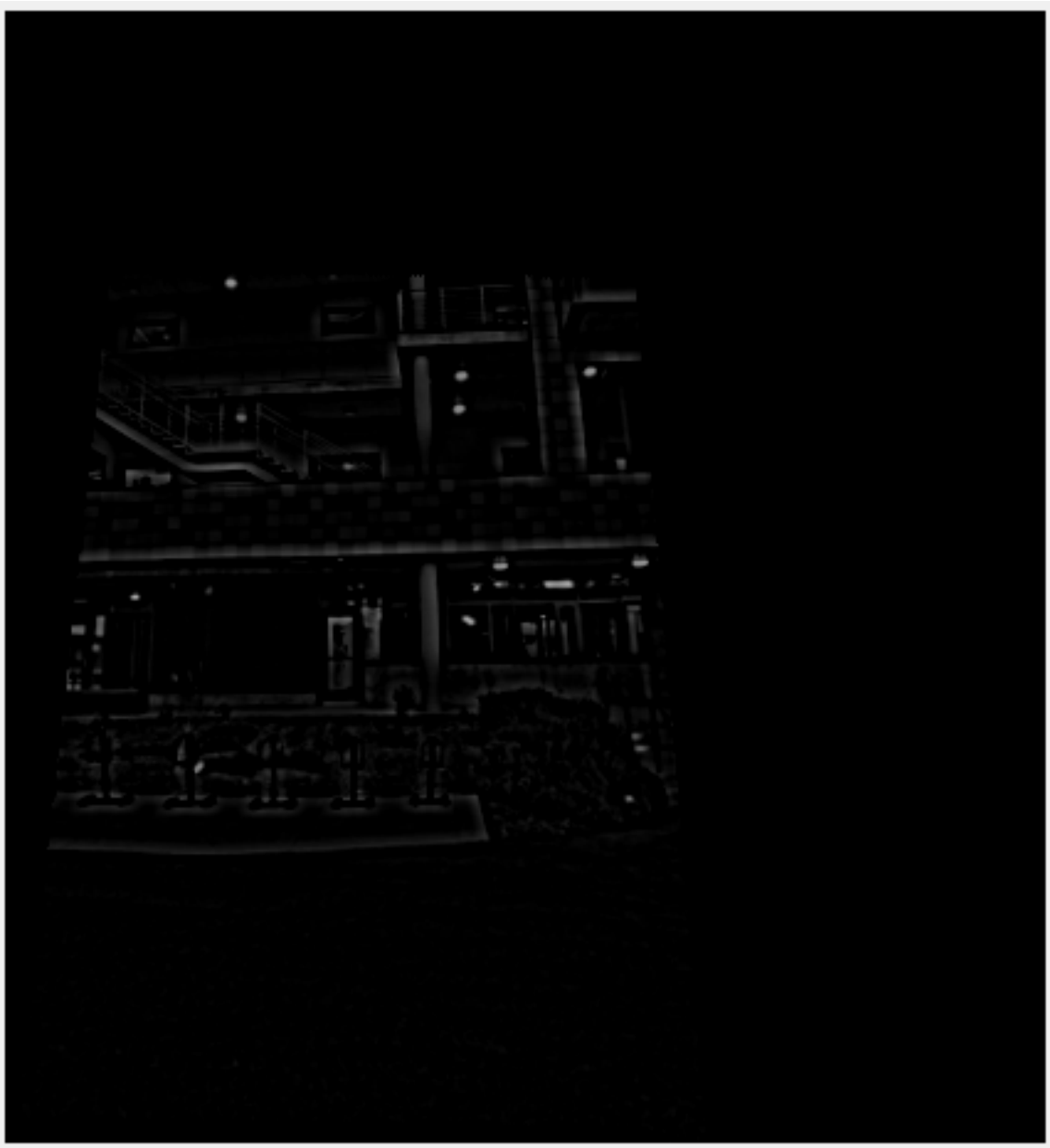
Blended Assembly: Pieces

Blended Mosaic

Two Band Blending: Low Frequency Mosaic Pieces

Two Band Blending: Low Frequency Mosaic

Two Band Blending: High Frequency Pieces



Two Band Blending: High Frequency Mosaic

Two Band Blending: Low + High Frequency