

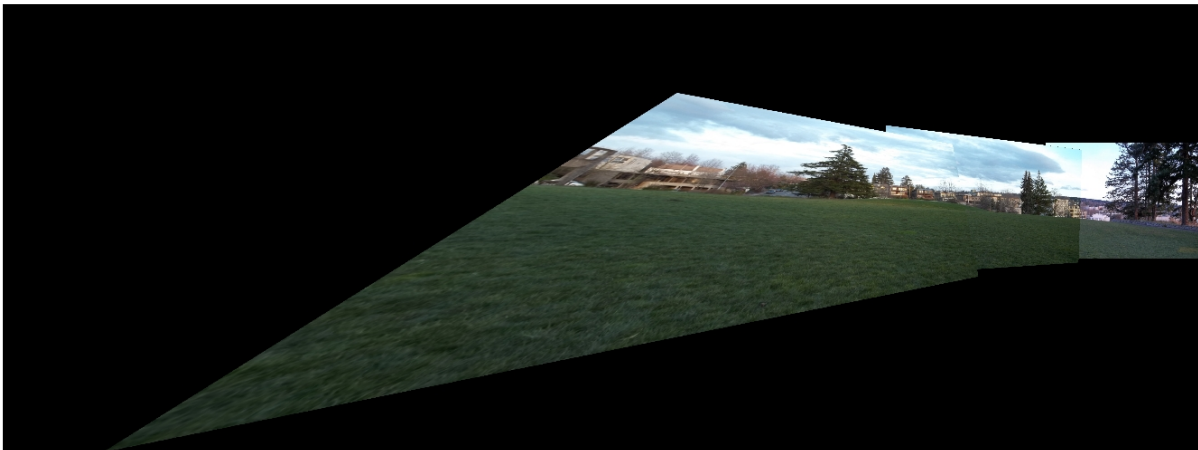
Problem Set 3



This image display the computed points from the second list of points based on the homography computed from one image to the other. The points are overlapping red '*' and cyan '+' which shows that the correct transform was computed. This extends to any number of points.



Here is a stitching of the given UT Mall area images using my program. It is slightly off, especially near the fountain where there is a slight shift in lines, but overall it looks pretty good and the error can be attributed to imperfect inputting of interest points.



This is a pretty interesting stitch created from the three files:



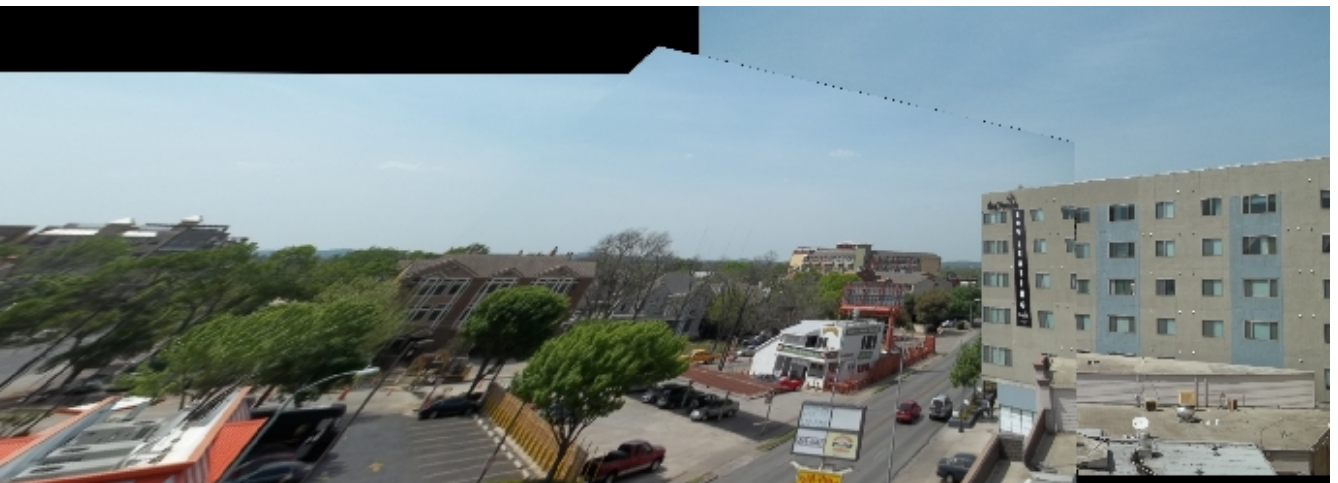
The colors don't match up very well and it was difficult to find matching point but it did okay.



Here is a better stitching example. Using the above images, I purposely took odd angled pictures to then stitch them together. Stitching the first two produced an almost seamless stitch:



And stitching in the last one, did pretty well but maybe due to a big lost quite a bit of resolution:



Here I inserted the image into the billboard in the image – I was hoping this would look much more interesting than it ended up, but it still looks pretty decent.



Here I took the original image of Magic Wok to the right, and due to there being a Chrysler in the parking area, I decided to repaint some of the walls to have Cadillac logos as I initially thought it was a Cadillac... Like the previous one, I was hoping this would be much more clever and exciting, but it ended up looking somewhat forced and boring. Nonetheless, it seems to work as it should.



Andy Luong, one of my roommates took a stitched picture of me when he took this class, so I did this last one to respect the tradition. You can see a black line in one of the images, because I exploited a *feature* of my program which states that if there is any pure black pixel in a warped image then it is not mapped over in the final mosaic. Because of this, I made a cut in one of the original pictures, which can be seen here, where I made an area be completely black. The only issue is that when I saved the image it antialiased the triangle I created and there was left some artifacts from the line where it was not purely black. The reason I did this was for the image of Andy in the large chair to not obscure the one on the couch.

