Project 2 Writeup

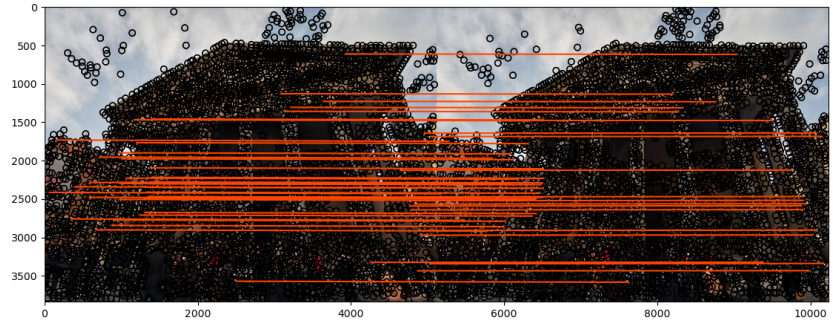
Instructions

- This write-up is intended to be 'light'; its function is to help us grade your work.
- Please describe any interesting or non-standard decisions you made in writing your algorithm.
- Show your results and discuss any interesting findings.
- List any extra credit implementation and its results.
- Feel free to include code snippets, images, and equations.
- Use as many pages as you need, but err on the short side.
- **Please make this document anonymous.**

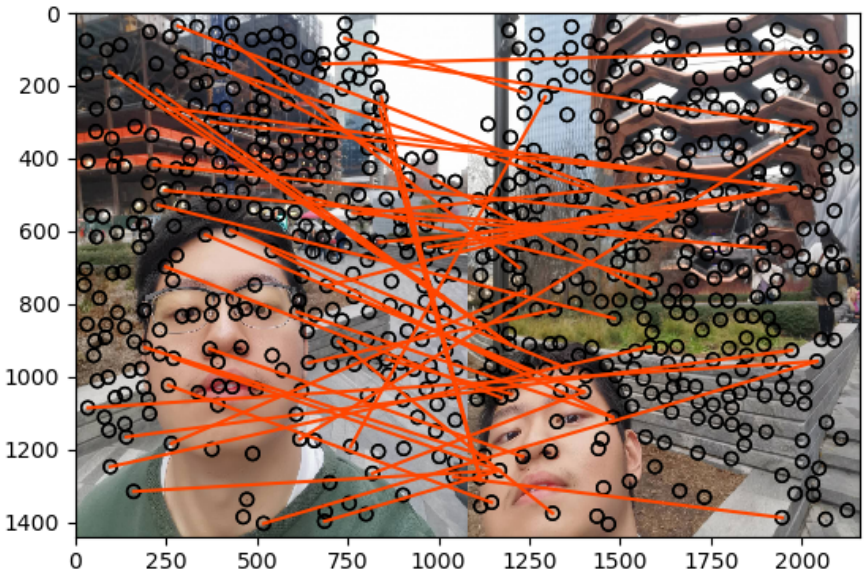
Project Overview

my selfie lol...,matching is so bad

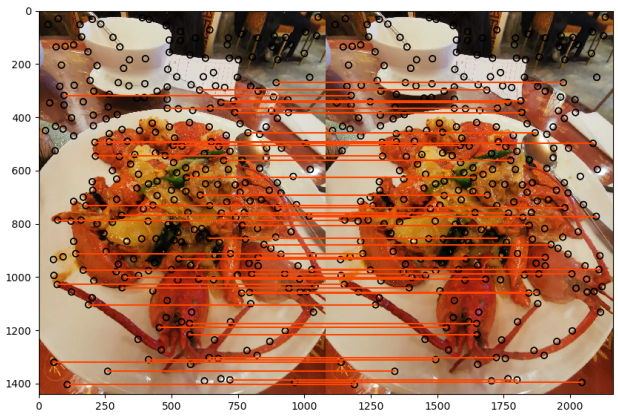
So much fun to play around
check out the next image! This Pantheon has a good match...you can see parallel lines



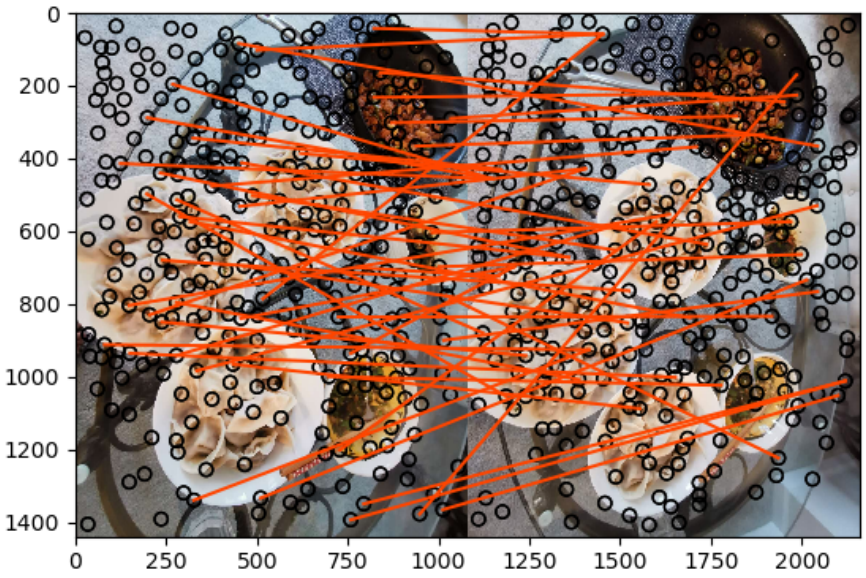
Me in NYC...pretty bad matching



check out the image at the next page! Fried lobster—good matching!

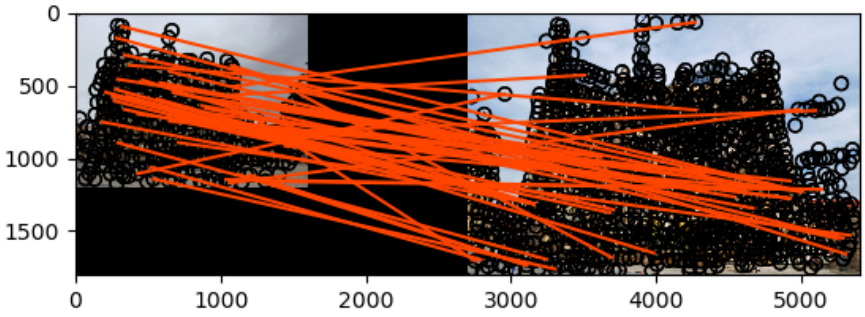


handmade chinese dumplings... acc this one is ok matching...

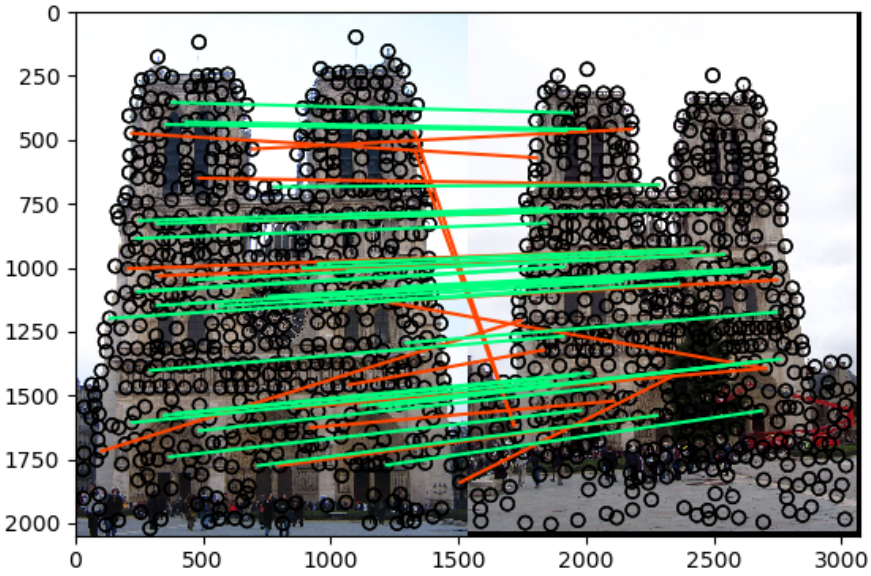


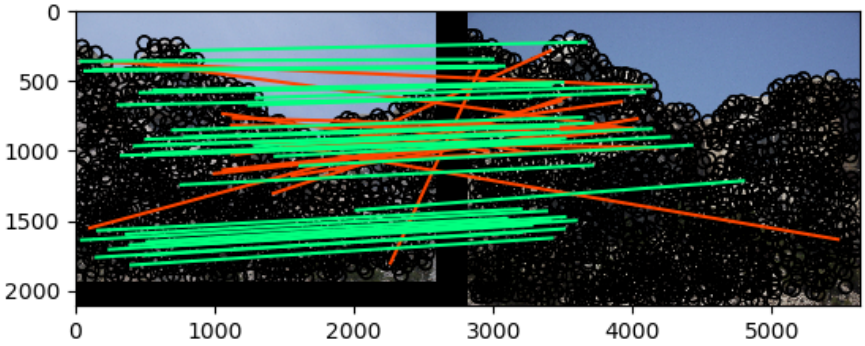
check out the gaudi on the next page

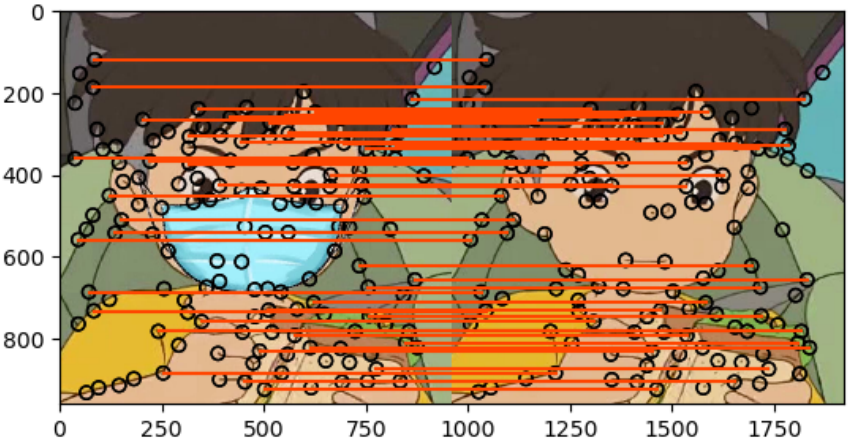
omg..got a 0 percentage on this one..so hard



around 70 percentage for mt rushmore and notre dame




0
500
1000
1500
2000
0
1000
2000
3000
4000
5000


0
200
400
600
800
0
250
500
750
1000
1250
1500
1750

(1)

Implementation Detail

Ok. I find lots of interesting things in this project. Being careful picking up the min distance in pick local max...you want a good range of 5-20.. I was having trouble understand the histogram.. that part was confusing and honestly I watched some youtube links said that you can do 9 bins–each 20 degrees with a total of 180 degrees... The matching part is easy but I had a small bug which stuck me for a day...thanks to a TA who help me solve the bug. Also I pick my threshold to be 0.95 but I think 0.7-1 should also work pretty well...I think argsort this function is helpful to locate these points...

I think the most difficult part for this project is to debug, for such a huge image, it would be hard to process the gradient or magnitude by hand and use to debugging..that is the reason it took me real long time to figure out the bug...otherwise i really love this project... Are we doing something else for the next one? Kind of excited...

Result

Extra Credit (Optional)

1. Implementation A, code snippets, and results

```
        one = 1;
        two = one + one;
        if two == 2
            disp( 'This computer is not broken.' );
        end
```

2. Implementation B, code snippets, and results

```
        one = 1;
        two = one + one;
        if two == 2
            disp( 'This computer is not broken.' );
        end
```