CS 91R: The Computational Image

Assignment 7: Image Stitching II

DUE March 25th at 11:59 PM

This is an open-ended creative lab, think of it as warm-up for the final project.

1 Do Something Fun with Homographies

- 1. Stitch together multiple images (a panorama):
 - different views of a planar surface
 - rotating about a single point
- 2. Automatically find the target quadrangle(s).
 - The opency library included in this repo supports findChessboardCorners.

```
let src = cv.imread(grid.canvas);
let gray = new cv.Mat();
cv.cvtColor(src, gray, cv.COLOR_BGR2GRAY, 0);
let gridCorners = new cv.Mat();
let cornersS = new cv.Size(9, 6);
cv.findChessboardCorners(gray, cornersS, gridCorners)
print(gridCorners);
src.delete();
gray.delete();
```

3. Some other fun application!

2 Learning Objectives

- use homographies to apply arbitrary 2D-geometry transformations
- use opency for some computer vision tasks

3 Deliverables

- 1. Commit the JavaScript sketch.js to the repo.
- 2. Write the reflection (as a markdown document named reflection.md) about what you were able to accomplish in this lab. Don't forget the collaboration statement!