Execute a small image processing research/design project of your choice. You may work in groups of up to 2.

Write an $\approx$ 8-page report describing your experiment and findings.

Please submit your report in pdf form along with your code as a zip file. Include with your code a README file if it requires any special setup, e.g. extra Python packages or datasets.

## Report Guidelines

1. **Introduction** ($\approx$ 1 page)
   Describe:
   - the question that you wish to answer
   - any dataset(s) that you will use
2. **Methods** ($\approx$ 2 pages)
   Describe:
   - any tools/algorithms you use that we did not discuss in class
   - why these methods were chosen rather than... anything else

   These descriptions should be sufficient for anyone who has taken this course, e.g. your classmates.
3. **Results and Discussion** ($\approx$ 5 pages)
   Present the results of your project in tabular or graphical form, as appropriate.

   Numerical evaluation is great, when possible. It should always be accompanied by qualitative analysis of specific example (both good and bad).

   Give detailed analysis. Discuss *why* you observed these results. For what types of images do these algorithms work well/poorly? Anything strange/unexpected/unusual requires explanation (and frankly, probably debugging). Compare any novel approach to an appropriate baseline.