CS211

Milestone #2

25 May 2020

The code that you have to submit for this second milestone covers the image processing part of the project (weeks 8, 9, 10, and 11). The deadline for submission is **the 25th of May, 23:55**. This part of the project will be graded based on the items listed in this document.

Code Submission

The submission procedure is the same outlined for Milestone 1: we ask you to submit your Processing project via a **git repo on c4science** and then upload the URL of the repo on Moodle. If you work with Java IDEs other than Processing, copy and paste your code in Processing, and make sure that it runs in the Processing development environment.

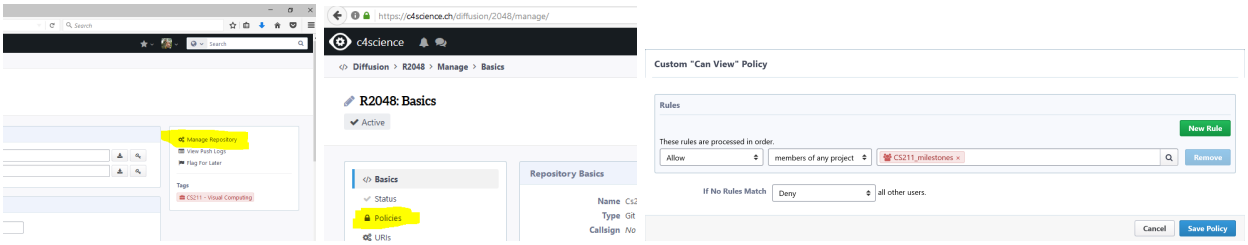
You are only allowed to use Processing libraries (obviously, no OpenCV).

When your code is ready for submission, **tag your git repository** with the tag `milestone2_submit`:

```
$ git tag milestone2_submit
$ git push --tags
```

(if you made a mistake, re-tag your repository as desired with `git tag -f milestone2_submit` and 'force' push it: `git push -f --tags`)

Then, submit the public URL of the repository on Moodle (under *Milestone 2*). **Make sure that we have the right to clone it!** To do so, in all your policy settings (visible, editable, pushable), define a custom policy and add bb_bruno (Barbara Bruno) and members of project "CS211_milestones".



Note

Even though the project is to be done in group and you will receive one single grade per team, **it is important that every team member contributes in every part of the project**. We remind you that the final written exam will include questions related to topics that are dealt with during the project only.

Milestone 2 - Checklist

We will check your submission by running it on different pictures of the large Lego board. For each group, **we will randomly pick one of the four pictures that are available on Moodle, under the *Week 8* section** (`board1.jpg`, `board2.jpg`, `board3.jpg` and `board4.jpg`). Your code should work with any of those without the need of using any scrollbars to adjust the thresholds (we will not tune any thresholding with scrollbars). Please **include these pictures into your Processing sketch (project)**.

Note

The code you submit should simply load `board1.jpg`. We will randomly replace it by another image ourselves.

When running your code, it should generate and display side-by-side the following three images:

- The result of the edge detector (Assignment#8 Part III)
- The result of the blob detection (Assignment#9 Part I Step 3)
- The four corners of the best quad detected on the input image (Assignment#11 Part II). This should be achieved by applying the pipeline given in Assignment#10 Part II, and then the best quad selection as described in week 11.

This is an example of the expected output for `board1.jpg`: