CS211

Milestone #2

21 May 2019

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), before **the 21st of May, 23:55**. This part of the project will be graded based on the items listed in this document.

Code Submission

Similar to the first milestone, we ask you to submit your Processing project via a git repo on c4science. If you are using Eclipse or any other development environments, please import your code into Processing and make sure that it runs as perfectly.

Please note that, in this submission 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[1] of the repository on Moodle (under *Milestone#2*). Check that we do have the right to clone it! c4science repositories are restrict to the group members. Add the user "WafaJohal (Wafa Johal)" in your policy settings.

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[1]Note that a full URL for a Git repo will start by `https://` and end with `.git`
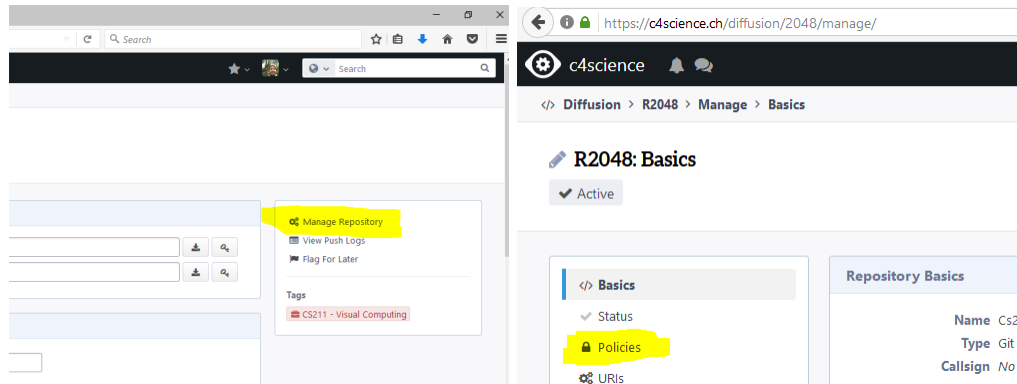
> **Note**
>
> Even though the project is to be done in group and you will receive one single grade per team, **it is important that every team member contributes in every part of the project**. We remind you that the **final written exam will include questions related to topics that are dealt with during 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`). So 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 already 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 best quad selection as described in week 11.

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