note 130 views

Assignments and Autograder

****PLEASE READ THIS CAREFULLY****

Great job on completing the first week of class! Now that you have set up your environment we are ready to start working on the course's problem sets.

Assignments:
There are seven assignments (including the final project) where you will be asked to apply the contents presented in this course to solve them. Each assignment will be released according to the class schedule, you can find the 'Schedule' tab on the class syllabus.

Please note that the all assignments are due when specified, no exceptions. Any submission sent after the deadline will not be graded and will receive a 0. If you need an extension in case of an emergency please contact the Dean of Students.

The respective documentation will be released via T-Square -> Assignments as well as on Piazza where you can find information on how to obtain the template files (code and report). In each problem set you will also find a document that includes all the instructions and requirements for each problem set.

Keep in mind that the time you have to complete each problem set may vary based on its complexity.

What to submit:
You will be required to submit three files (submitted separately):

- psX.py : Here you will implement your methods in order to solve the problem set. Please keep in mind that this is the only file of this kind that you will submit. In order to prevent errors with the auto grader, make sure all your code is consolidated in psX.py, in other words, you will not be able to submit helper files.
- experiment.py: This file runs all your methods implemented in psX.py and generate the images you will use in psX_report.pdf. **Note that this file requires setting parameters correctly in order to obtain the correct images. We will run your experiment.py file to verify your output images shown in the report. Make sure you submit a working final version. We will run this file as is and will not make any changes to it.**
- psX_report.pdf : In this report, you will include output images and text responses that satisfy the problem set requirements following the template we may give you in the assignment instructions.

Autograder (aka Bonnie):
Each python file (psX.py) will be evaluated using an autograder to test if you have implemented the required methods correctly. This system will test your algorithms for generality. For example, imagine you are being asked to highlight certain objects in an image, your code should be flexible enough to succeed in different cases that present small variations.

The autograder implements a timeout feature that will stop if your assignment is taking too long. This means that you should use programming methods that are efficient enough to prevent this interruption. Some approaches that we emphasize a lot are vectorizing your code, stay away from iterative loops as much as possible, and try not to use brute force. There are several functions in Numpy that can help you deal with this.

Keep in mind that this system runs python 2.7 and OpenCV 2.4.13. If you are not coding using these versions, you should account for differences found between your version and the autograder's.

psX.py, experiment.py and psX_report.pdf are to be submitted to the autograder. We will not use T-Square / Piazza to download your submissions. Your assignment **will not be graded** if it was not submitted via the autograder.

Please Note: Your psX.py must have passed the autograder tests in order to receive credit for the images you show in your report.

(T-Square has a submissions section, but this is for your record only. You can choose to submit something like 'done' to indicate to yourself that it was completed on time)

Academic Honesty:
Please refer to the Georgia Tech Academic Honor Code. All assignments should contain content (code and text responses) that belong to you. The idea of these exercises is to reinforce your learning and using code that does not belong to you defeats this purpose. Sources like lectures, books, and papers can help you finding the right way to generate your solution and they should be cited accordingly. You can use any citation format as long as it is clear where you found this information.

Using code found online, from other classmates, previous students, etc. is not allowed. We take this point very seriously and run a plagiarism detector on all assignments. We have access to previous semesters' assignments and other resources. Once again, these problem sets are designed to help you learn.

For more information please refer to @13.

Finally, we ask everyone to **keep these assignments and solutions private**. Part of these exercises may be used by future students therefore do not create public repositories or use any tool that makes the problem sets and answers available to anyone. This will also prevent you being involved in an OSI case. Please refer to Galil Zvi's email on March 14 2017.

Thank you for reading this announcement and we wish you the best in the upcoming weeks!

#pin

logistics autograder

Updated 9 hours ago by Pedro Velez

followup discussions *for lingering questions and comments*

Resolved Unresolved

Vitaly Marin 4 hours ago
Could you please specify (links to 1) autograder (link 2) how to submit assignments (three files per assignment) ? Thank you!

Matthew Houston 2 hours ago Both of these questions are answered in the problem set 1 instructions. A link to that document is provided in @72. For future problem sets the submission process will be similar.

Resolved Unresolved

Steven Larrivee Just now

I am going to ask the craziest question of the day. In the ps1 git you have the starter code for ps1.py and experiment.py Are we supposed to use this as our starting point? I ask because the honesty code says all of the code should be our own. So I am not sure if we are supposed to re-write the code, or fill in the needed code to make it work. I just need to be really clear on this!