# Term Project
## CS174A – Introduction to Computer Graphics – Spring 2015

The term project is the major part of your grade for this course – 300-400* points.

You are required to form a groupt of at least three people and no more than five people.

You can propose whatever graphics based programming project you like for your term project. You will have about three and a half weeks to officially work on the project. Plan a project respectful of the number of people, resources, skills and time available.

If you need help with ideas please let me know and the TAs and I can help with suggestions.

The only requirements are that you include in your project all aspects of the course material up to the mid-term (basically through texture mapping). However, how you incorporate these topics and techniques is up to you. You will also be required to include at least one advanced topic in your project for a group of three people. If your group has more than three people you will be required to include an additional advanced topic for each additional group member. So, for four people, two advanced topics, five people, three advanced topics. An advanced topic is defined, as any technique or method not covered in the first half of the course. We will discuss with your group what in your proposal counts as an advanced topic. Additional advanced topics can be proposed for extra credit.

Each member of a group that choose to implement a term project using any graphics libraries (i.e. three.js, Babylon.js, physics libraries, etc) will be required to submit a forth homework assignment implementing an advanced topic (worth 100 points) and your term project will become worth 300 points. These groups will also be ineligible for demo points awarded through class voting.

Each group will submit a term project proposal – the proposal is due by midnight on April 30, 2015 via email to Dr. Friedman. Only one member of the group needs to submit. The proposal should list your group members, their UID, GitHub username and preferred email. Describe your proposed project in as much detail as possible. A couple of pages should be the maximum anyone needs. I may contact your group to get clarification or discuss various parts of your proposal.

Your group will receive an email from me with comments and a group number. You will also be given a specific GitHub repository for your group.

All term projects will be due on June 1, 2015 at midnight via GitHub. You **must** be finished by this time; there will be **no** late submissions. Presentation order over the two demo days will be determined by random drawing. Please manage your time and divide tasks wisely between group members. If you are having group problems you should bring them to my attention immediately and not wait – remember, you will all share the same score for the term project.

June 2 and 4 we will demo all of the projects in class live during. Your group will be given a short period of time to demonstrate your project to the class. The time allotted will depend

on how many groups there are. Every group member will present their contribution to their project. Everyone must be present. Any member who does not present will receive zero points for their term project. Make sure you take at least a little time to practice and make sure your demo works. There is video (VGA) and audio (3.5mm male plug) in the classroom.

During the demos every group will receive a voting form and will score each demo from 1-10. Voting is by group for groups and you can vote for your own group. Each group must submit a score for each demo or that group is disqualified. As discussed at the beginning of the course the top five vote totals, including ties, will be awarded extra points for the course except those projects that chose to use external libraries (even though we will include them in the scoring).

Participation in the demos is mandatory. Remember, your group will be randomly assigned a day and order. All group members must be present.

Your grade (points) is based on the basic requirements, advanced topic(s) and instructions I give your group in response to your proposal. Any points awarded via voting are in addition to your basic project score. I will be personally grading term projects and because there is such variation I will be looking at the totality of your group's effort. Code, group organization, completeness of project, presentation, etc.

Good luck