

# Computational Geometry Project Checkpoints

March 29, 2010

There are five project checkpoints now that everyone has a project and a rough plan of attack. Each checkpoint will be due on Friday, by midnight. Submission will be via pushing to `github`. Of course it is okay if you work ahead of this schedule, but consider these to be the minimum requirement. After each checkpoint, I will give you individual feedback on how things are going and if necessary, where to focus your efforts.

## 1 Readme, April 2, 2010

Write a Readme file that describes what your program does. It should include the following parts.

- What does your program do?
- How do I get it to run?
- What is the input?
- How do(es) the basic algorithm(s) work.

**Be sure to check the readme file into your git repository and push it to github.**

## 2 Input and Output, April 9, 2010

- Make a simple webpage to hold your applet or flash application. Use github pages to host the site (see <http://pages.github.com/> for info on doing this).
- It should have have a version 0.1 of your project that at least handles input.
- It should also have some graphical output. The output can be as simple as showing the input.

The point of this checkpoint is to make sure that within whatever framework you are using, you are able to handle user input and display graphical output.

### **3 Basic Implementation, April 16, 2010**

- Complete a minimum working implementation.
- Get something working before you do any optimizations.
- Remember, “Premature optimization is the root of all evil” (Knuth).

### **4 Improved Implementation and Description, April 23, 2010**

- Continue to work on and improve your implementation.
- Add an explanation of the algorithm to the project github page.
- Include pictures in the description to demonstrate the working of the algorithm.
- Be sure to include all relevant references.

### **5 Final Implementation and Presentation, April 30, 2010**

- You should have a polished implementation with a clear description of what’s going on.
- It should look nice.
- In class, each group will give a short 2 – 5 minute walk through of the project.
- Include in your project page, a section called TODO’s that has a list of the things you would have liked to add if you had more time.

### **6 Extra Credit**

If you want some extra credit, you can implement some of your TODOs up until the final exam. This is not a required part of the project, but I expect many of you will wish for a little more time to get things just right. This is your opportunity.

If you want double extra credit, implement someone else’s TODOs. Make sure they’re not working on the same thing.

The awarding of extra credit will be based on the extent to which you made a meaningful addition. If you just implement something that ought to have been part of the final submission, the grading will be such that it would have been better to have submitted it then. If this is confusing ask me about it and I will explain.