

Math 1062, Spring 2012, Homework 3

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Due: Friday, Feb 10, 2012

- You are encouraged to work with other people on homework; thank them explicitly in your write up.
- You can find the L^AT_EX of this file at <http://wstein.org/edu/2012/1062/hw/>.
- I will have office hours 11am–2pm in Padelford C423 on Thursdays. You can email me at wstein@gmail.com or the list at uw-sage-2012@googlegroups.com for help. I will often cc a sanitized version of my answer to the list, so everybody benefits.
- Your solution will be an email message with one patch attached to it, and possibly more attachments for the mock-up in problem 3. It is very useful if you put “1062 homework 3” in the subject line, which I’ll use as a double check that I don’t miss any assignments.

1 Homework

1. (Submit your solution to this problem as an attachment to your email message.) Create a patch called `my.patch` that modifies something that you care about in the Sage library. This may involve you logging into the `math480` account on `sage.math.washington.edu`, extracting the Sage tarball in `scratch/your_name`, editing something in Sage, then using `hg commit` and `hg export`. I will grade this problem by applying the patch and ensuring that `sage -b` works after applying the patch. The screencast from Friday, February 3, 2012 will be a step-by-step tutorial about how to do this problem.
2. (Submit your solution in the body of the email message.) Look through

http://trac.sagemath.org/sage_trac/

at active tickets, for example, by using one of the queries at

http://trac.sagemath.org/sage_trac/report

and find **three tickets** that in a perfect world (given much time) you feel you could address. Explain why each ticket interests you, what relevant background you have, and what background you would need to acquire, and how long you think it would take you to resolve the ticket. (Hint: You may also find doing a google search with `site:trac.sagemath.org` in the search useful.)

3. (Submit your solution in the body of the email message.) Take more steps on your final project.
 - (a) Write a step-by-step plan for finishing your final project. In particular, what will you learn/read/do and when?
 - (b) Write a very, very short mock-up code demo that goes in the direction of your final project. (Examples: If you were going to “implement a bunch of statistics functions” for your final project, then your mock-up might be a simple implementation of a function to compute the mean. If you were going to create a quick reference card, your mock-up might be the section headings for the card, or one of the sections.)