

## Assignment Details

A colleague in the Department of Informatics came up with this idea. Your task is to mock it up. You do not have to program it, but you will need to find some way to visualize your mock-up. Obviously, it has to be an interactive visualization. But you don't have to make your mock-up interactive, just explain how a user would interact with it. There's obviously a slightly different interface for the instructor, TA, and students. Explain how these would vary, and if they are quite different, show a mock-up of each. Explain how your visualization uses principles from the course, either lectures or Ware's text. Prepare a document with your mock-up(s) and accompanying explanatory text, and submit it as a pdf to the appropriate DropBox.

### ICS 31 Status Dashboard

#### Visualizing Course Status in a Large Introductory Programming Course

In a large intro course, everyone involved---instructors, TAs, students---could benefit from at-a-glance answers to a variety of questions.

ICS 31, Introduction to Programming, involves these activities:

- \* 9 weekly lab assignments, done using "pair programming"
- Students register their partners each week with an online tool
- Students evaluate their partners each week with an online tool
- Students submit their work online via [checkmate.ics.uci.edu](http://checkmate.ics.uci.edu)
- TAs grade the assignments
- \* 9 weekly quizzes administered online (completion credit only)
- \* Two midterms, conventionally on paper and graded by TAs
- \* The occasional online survey, for course evaluation or other issues (e.g., demographics at the start of the course: previous experience, major, class level, gender)
- \* The [piazza.com](http://piazza.com) online forum, where students can ask questions and instructors and fellow students can supply answers
- \* One final exam

### INSTRUCTORS

Are the TAs grading and returning assignments in a timely way?

Are the TAs' scores reasonably distributed? Who's the toughest/easiest grader?

When do students register their lab partner choice; how are those choices distributed over time?

Are the students submitting their lab assignments early/on time/late?

Are the students completing their weekly on-line quiz (early, on time, late)?

Have the students submitted their weekly lab partner evaluations?

Are there any hot-spots of poorly evaluated lab partners over time, or evaluators who are consistently tough?

Who has given a lot of useful responses on Piazza?

Correlations of anything to anything: lab scores with exam scores, exam scores with partner rating, quiz completion with exam scores, ...

Click through to student's record/gradebook??

### TAs (and INSTRUCTORS)

Are the students choosing partners according to policy (a partner for each assignment, no repeat partners)?

### STUDENTS

Have I submitted each weekly on-line quiz?

Have I submitted my lab partner evaluation form each week?

Have I (or has my partner) submitted each lab assignment?

Are the correct scores recorded for my labs, for the midterms?