CS for Insight (CS 41)

[One-page overview]

CS 41: CS for Insight

**Motivation:** CS-for-insight is eclipsing CS-for-software

**Goal:** Students practice with computing skills/tools useful in many contexts

**Soundbite:** CS 5, part 2 …

**Skills / Weeks (draft ideas):**

1. Download and **parse** 250k Jeopardy questions
2. **Model** Shakespeare vs. J.K. Rowling by word-choice
3. Compute statistics on one’s Facebook-friend **graphs**
4. Data project #1: **spatial summary** of a feed’s topic-interest
5. Data project #1: using **visualization** libraries
6. Pixels and user-interfaces: insights into **images**
7. ML project #1: naïve **classifiers**, e.g., indoors, outdoors, or neither?
8. ML project #2: additional regression **models** e.g., how indoors
9. Web project #1: presenting results via **libraries** + other languages
10. Web project #2: emphasizing **other languages**
11-14. Final project on a topic of each student/group’s choice - culminating in presentation and web portfolio

**Administration:**

- Welcomes projects **overlapping** with other efforts, as appropriate
- Alternate lecture and lab sessions
- Offer both half- and full-course paths through the class
- During final-projects, invite alums to present on their uses of computing