Class 5: She Cells C Shells

Action Items

You should have a teammate for PS2 by now. If you don't, hang around after class to find one.

Course Philosophy

What is my goal for the lectures?

What are my academic goals for the course?

We wish to establish in the upper country of Virginia, and more centrally for the State, a University on a plan so broad and liberal and modern, as to be **worth patronizing with the public support**, *and be* **a temptation to the youth of other States to come and drink** *of the cup of knowledge and fraternize with us.* (Thomas Jefferson's letter to Joseph Priestly, 1800)

If this doesn't coincide with your personal goals, what should you do?

Thomas Jefferson enrolled in the College of William and Mary on March 25, 1760, at the age of 16. . . By the time he came to Williamsburg, the young scholar was proficient in the classics and able to read Greek and Latin authors in the original. . . He was instructed in natural philosophy (physics, metaphysics, and mathematics) and moral philosophy (rhetoric, logic, and ethics). A keen and diligent student, he displayed an avid curiosity in all fields and, according to family tradition, he frequently studied fifteen hours a day. (From *Jefferson's College Life*.)

What is my goal for the assignments? What should your goal be?

Some professors who want to minimize grading time have the misfortune of teaching as schools without strong honor systems like UVa. This forces them to adopt other solutions, like the "Tiger Professor" approach: *Severe CS 161 syllabus provokes controversy among students* (The Daily Californian, 3 September 2013)

Danny Lewin

Danny was killed on September 11. He was on American Flight 11 on his way to meetings in California when his plane was hijacked. In true Danny form, he fought back against the terrorists in an effort to defend the stewardesses and the cockpit. To this day, those of us who knew him well can't figure out how only five terrorists managed to overpower him. During his short life, Danny made extraordinary contributions to the internet and to computer science through his work in algorithms and complexity theory. The impact of his work will be felt throughout the hi-tech industry for many years to come.

Tom Leighton's remarks naming of the STOC Best Student Paper Award in honor of the late Daniel Lewin

- Consistent Hashing (Lecture from my cs1120 course, 12 September 2011)
- *A Lost Spirit Still Inspires* (Boston Globe, 4 September 2011)
- What Things were like in September 2001 (Note that the University didn't cancel classes on Sept 11, 2001 or on Sept 12, 2001, but did for the week or so after that.)

Rust Docs

If you are interested in using and contributing to the Rust documentation Jordi is developing, they are at http://seld.be/rustdoc/. (Note that these are targeting the latest version, so may not be entirely consistent with version 0.7, but its also fine if you want to upgrade to using the latest version.) If you are also interested in contributing to improving them (instead of competing with my daughter's efforts), visit this github page and `#rustdoc-wg` on `irc.mozilla.org`.

Shell Code

```rust
use std::{io, run};

fn main() {
    static CMD_PROMPT: &'static str = "gash > ";

    loop {
        print(CMD_PROMPT);
        let line = io::stdin().read_line();
        let mut argv: ~[~str] = line.split_iter(' ').filter(|&x| x != "")
                                    .transform(|x| x.to_owned()).collect();
        if argv.len() > 0 {
            let program = argv.remove(0);
            match program {
                ~"exit"     => { return; }
                _           => { run::process_status(program, argv);}
            }
        }
    }
}
```