# Movie Day

CIS 322
Mar 7, 2017

I haven't gotten much sleep and have a bit of a backlog that I'm trying to get through. I have a collection of videos for us to watch/discuss today and then let's work on a system design problem… Maybe the cloud storage problem we didn't work on last Thursday.

# From the Dailies

- Finished assignment 8 yesterday! And I had frozen yogurt which was good.

- Finished code reviews. Started on assignment 9: began writing sql queries to get information out in the proper order to be input into the .csv files smoothly.

- Today I wrote a plan for this project. I made a list of the basic mechanics for the project and put it in terms of risk.

- A growing concern is what final will look like? Lecture, design, skills?

The final is expected to have the same shape as the midterm. There will be trivia questions on git, SQL, bash. These questions may be more involved than the ones on the midterm. The remainder of the test will be design/management questions; choose a model and describe the migration, given some set of functionality describe the risk and order the delivery, given a simple problem design a workflow to support it and place parts of the workflow on hardware then scale the solution, provide a stoplight slide for a postmortem on the LOST project, etc.

I'm still planning to get a sample final out this week… but the level of strapped for time I have been is pretty crazy. Writing a reasonable (let alone good) test is hard, to give you the kind of sample test I would like you to have results in needing to write the final twice. Hopefully the first writing will be done tonight/tomorrow.

# Remaining Lectures

- March 7 - Videos about working on projects

- March 9 - Design Discussion

- March 14 - Project post-mortem meeting

- March 16 - Screen scraping vs APIs (Andy)

- March 21 - Final project - Will be cloned at midnight
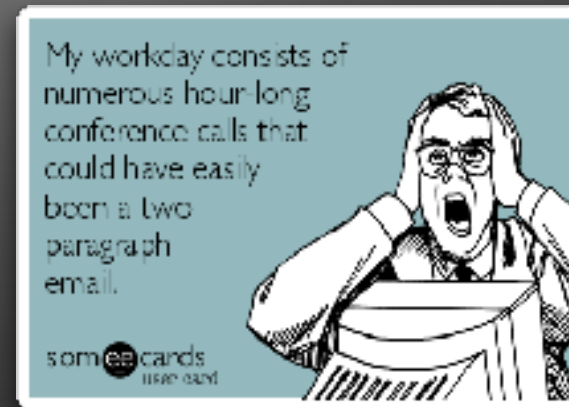
- March 22 - Final exam - 12:30 in Lillis 111

What I want to do for around half of our time today is watch and discuss some videos. There are two on time that I think are very good, time is one of my hobby horses because of the kinds of systems I used to work on. The others are around organizational behaviors, these are meetings that you will have if you work in industry long enough.

The final project must not have syntax errors and the preflight script must work correctly. Find time in week 10 to meet with Andy and make sure that your preflight is working correctly. We will not regrade final projects and failure to install and run cleanly will make this course impossible to pass since the final is 40% of your total score. **Customers/employers will not accept code that does not compile or does not does not run.**

# Conference Calls

- An important tool for distributed teams

- Value add
  - Removes locality
  - Reduces travel

- Challenges
  - Low bandwidth communication
  - Distractions
  - Identifying speaker
  - Background noise
  - Dropped calls
  - Accents

My workday consists of numerous hour long conference calls that could have easily been a two paragraph email.

someecards
use card

http://www.someecards.com/usercards/viewcard/my-workday-consists-of-numerous-hour-long-conference-calls-that-could-have-easily-been-a-two-paragraph-email-f64bd

https://youtu.be/DYu_bGbZiiQ

 makes a good conference call? How can we make good conference calls happen more frequently than bad conference calls?

> "A man with a watch knows what time it is.
> A man with two watches is never sure."
>
> *–Lee Segal (?)*

Getting the correct source to attribute quotes to is hard… especially in an age where so many sources are available via the internet.

When and who are the most important questions in most businesses. These are the questions that need to be answered for accountability and to analyze/correct/optimize processes. I mean we all know when lunch time is right? Time is super simple, just look at where the sun is…
https://www.youtube.com/watch?v=-5wpm-gesOY

The big problem is that most people don't think deeply about time or think deeply about what time means over large geography… After you work with one team in AZ, or miss a conference call because of misunderstanding the timezone it was scheduled for, or work on a global data processing system you'll get a special application for the problem of time.
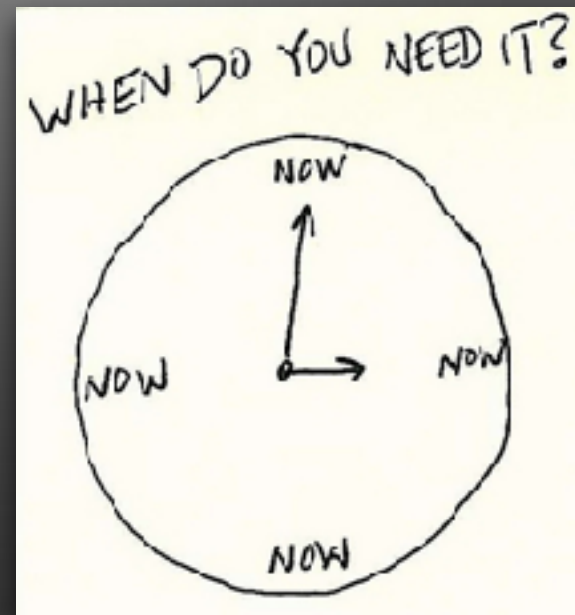
Oh, btw, Unix time and UTC can't even save you….
https://www.youtube.com/watch?v=Uqjg8Kk1HXo

# Technical Design Meetings

Good specifications never happen in real life…

https://www.youtube.com/watch?v=BKorP55Aqvg

This meeting is pretty much real… I've been in this meeting.

https://www.youtube.com/watch?v=9hOsO7D65XE

My professional mentor loves this particular scene from Brain Candy… he was Merv in a meeting like this once.

Operator - minutes 3:40 to 6:45

The most important part of any project is for the customer to feel good about the project.

You delivered what they asked for, they don't like it, what do you do? I had this happen on my first independently run contract… it was a fixed price project and about a month worth of my time.

# Design Exercise

Let's formalize the problem, figure out the questions we need to ask the customer, and design a solution.