Elapse

Gaby Clarke and Alex Hoppe

Big idea
Interactive data visualization on a (web) app: We want to make an interesting calendar interface that people will use to explore their management of time.

MVP
Calendar data parsing and visualization in app

Stretch goal
Awesome interactive calendar visualization app on the web (like MVP, but more awesome): multiple different views, different time scales, maybe a Pebble port?
Make one for all of the things going on at Olin? (public events only)

Learning goals
We want to learn about:

- Implementing user interfaces (Gaby)
- Visual design (Gaby, Alex)
- Data parsing and management (maybe web database?) (Alex, Gaby for data management)
- Agile development
- Maybe JS? Specifically d3js (Alex, Gaby)
- Git (Alex)
    - Branching (Gaby)
- Data visualization

Implementation
Parsing calendar data
Data visualization?
    Figure out js/python visual libraries
Olin calendar of public events
If we have time:
    Web app implementation:
        Built in Flask
        Hosted on Heroku

Rough schedule
Week 1: Data parsing and starting the app
Week 2: Data vis: figure out visual python (d3py)
Week 3: User interface + data uploading
Week 4: Data vis v2.0
Week 5: Data vis v3.0

Week 6: Choose: (Embellishing / fixing broken things) (implement for Olin schedule) (web app)

Collaboration plan
We'll do most of our exploration as pair programming and then divide work as necessary if appropriate. We're going to use agile development (whatever that means).

Risks
This would probably be more easily done in js, but neither of us know js, so we're planning to use d3py, which doesn't seem to have the best documentation.

Additional course content
Branching strategy
More object-oriented design

- Inheritance is something incredibly powerful we haven't gone into depth on