introduction

Daniel Jackson & Arvind Satyanarayan
welcome
your lecturers

Daniel Jackson

Arvind Satyanarayan
your TAs

Alice

Barry

Mary

Maryam
introduction

Daniel Jackson

my career
- Physics undergrad (MA, Oxon)
- Computer science (PhD, MIT)
- Assistant professor (CMU)
- Professor (MIT)

my interests
- formal methods (http://alloy.mit.edu)
- design for usability, security, safety
- photography (http://dnj.photo)

MIT roles
- associate director of CSAIL
- editorial board of MIT Press
- MISTI-MEET faculty director
introduction

my career
› CS all the way through!
› BS, UC San Diego
› PhD, Stanford
› Visiting Researcher, Google Brain
› new MIT Assistant Professor

my interests
› interactive data visualization (http://vega.github.io)
› machine learning interpretability (http://distill.pub)
what 6170 involves
two halves

first half
weekly solo assignments
2 classes + 1 recitation/week
no collaboration

second half
team project
weekly mentoring
# A Week in the Life of a 6170 Student

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Morning</strong></td>
<td>sleep</td>
<td>sleep</td>
<td>sleep</td>
<td>recitation</td>
<td>sleep</td>
</tr>
<tr>
<td>2:30-4pm</td>
<td>class</td>
<td>sleep</td>
<td>class</td>
<td></td>
<td>pset</td>
</tr>
<tr>
<td><strong>Evening</strong></td>
<td>sleep</td>
<td>sleep</td>
<td>sleep</td>
<td>sleep</td>
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</tbody>
</table>
scheduling details

**problem sets**
all material taught by Thursday
due noon following Tuesday

**recitations**
start between 10am and 3pm
recommend attending same one

**office hours**
optional, announced on Stellar
hand-in flexibility

slack days
seven in total, use as you please
solo assignments only

extensions
only for serious issues, with S3 notes
use slack days for everything else

lateness
10%/day penalty

what constitutes hand-in?
submitting hand-in form
with URL of commit
<table>
<thead>
<tr>
<th></th>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>team</strong></td>
<td>final project</td>
<td>35%</td>
</tr>
<tr>
<td></td>
<td>programming assignments</td>
<td>34%</td>
</tr>
<tr>
<td><strong>individual</strong></td>
<td>design assignments</td>
<td>21%</td>
</tr>
<tr>
<td></td>
<td>participation</td>
<td>10%</td>
</tr>
</tbody>
</table>
participation

will be judged on
completing exercises in lecture
role in project team meetings
participation in lecture & recitation
contributions to Piazza forum
getting help

lab hours
times on Stellar, may change weekly
first half of term only

Piazza
open 24 hours
no anonymity for public posts

lecturer office hours
times on Stellar, may change weekly
where to go if...

you want a quick answer to a technical question
--> post a public Piazza question

you’re confused about something technical
or you want help getting your code to work
or you just want to hang out and get some pset feedback
--> go to office hours

you have a question about your grade
or about course policy
--> post a private Piazza question

you want to discuss a technical topic
or comment on the course, or want to hang out with us
--> go to lecturer office hours
take advantage
of the resources of the class
StackOverflow \ Lectures ≠ ∅

start early
get a sense of what you’ll need
take advantage of staff
best way to debug: take a break

be incremental
build it up, easy first
check every little feature as you add it
be a scientist: try it and see
confused by git?

Gitless: a version control system

About Gitless

Gitless is an experimental version control system built on top of Git. Many people complain that Git is hard to use. We think the problem lies deeper than the user interface, in the concepts underlying Git. Gitless is an experiment to see what happens if you put a simple veneer on an app that changes the underlying concepts. Because Gitless is implemented on top of Git (could be considered what Git pros call a "porcelain" of Git), you can always fall back on Git. And of course your coworkers you share a repo with need never know that you're not a Git aficionado.

Check out the documentation to get started. If you are a novice user that never used any version control system the documentation should be enough to get you started. If you are a Git pro looking to see what's different from your beloved Git you'll be able to spot the differences by glancing through the Gitless vs. Git section.

For installation instructions see the readme file. After installation, you should be able to execute the gl command. The current Gitless version is 0.7 which was released on 4/2015 (release notes).

http://gitless.com

Santiago Perez De Rosso
enrollment form  
due today by 9pm

first recitation  
tomorrow, pick your time

first problem set  
due noon on Tuesday

office hours  
see Stellar