

Web Development Intensive

welcome!!! (*next 12 weeks*)

contracts

requirements

setup (installfest)

questions ???



Web Development

the next twelve weeks...

Web Development



the next twelve weeks...

- 1 Intro (html, css, workflows, dev env)
- 2 - 4 Frontend (JavaScript)
- 5 - 8 Backend (Ruby, Databases, and Rails)
- 9 Group Hackathon
- 10 Professional Development Week
- 11 - 12 Final Projects

Week 1



accelerate!

getting yourself organized

building study habits

finding resources

collaborators (hint: everyone!)

friends and family (see ya in December...)

stay healthy! (eat, sleep, code, repeat...)

Week 1



accelerate!



Weeks 2-4



javascript

frontend

- screen elements
- interactivity (hovers, animations...)

coding

- code as poetry (structures, patterns)
- program logic, programmatic flow
- object oriented programming

Weeks 5-8



ruby, rails, sqlite, postgres

backend

- server
- request/response, routing, APIs

databases

- data structure
- persistence, CRUD functions

rails

Week 9



group project

No lectures!!!

group project

- choose a concept
- pitch your idea

documentation

- sketches, wireframes, ERDs, sitemaps
- collaboration tools (github)

presentation/demonstration

Week 10



professional development week

Test Driven Development (RSpec)

Rails Testing Models/Factories

API Interaction

Writing READMEs and Documentation

SEO Tips

Agile/Scrum

Algorithms

Deploying to Heroku

Weeks 11-12



final projects

individual final project

- fully documented
- pitch for approval
- demonstrate current skills
- self-teaching into unknown skill areas
- major part of your personal portfolio

Weeks 1-12



questions???

graduation

requirements

grades

attendance

participation

If you do not graduate, you will not receive career services, participate in final presentations, or be included in the final employer showcase.

attendance

requirements

- attendance is mandatory for all 60 days of the program*
- you must be in your seat and prepared for class at 10AM
- if you are late, you must notify us via Slack (with ETA)
- you are responsible for any material missed:
 - view slides, review lecture video, borrow classmate notes
- you must stay until class ends at 6PM**

* this does not include sickness, family emergencies, etc. Borrow notes, watch videos as needed

** may get an early start on homework some days; early dismissal possible for weather...

attendance

requirements

why is attendance is mandatory?

- if you miss a day, you miss a week (cascading knowledge)
- employers will ask about your commitment
- collaboration, connection, community...

but life happens...

- **communicate** -- slack, email, text...
- if you miss 3 days without communication you will be dropped

grades

requirements

all assignments and projects complete by final day of class *

- projects are graded complete or incomplete
- either it works or it doesn't

if you get an incomplete...

- review feedback, improve, re-submit!
- * • must re-submit by Sunday 12AM of same week

survival...

how to survive WDI

believe in yourself

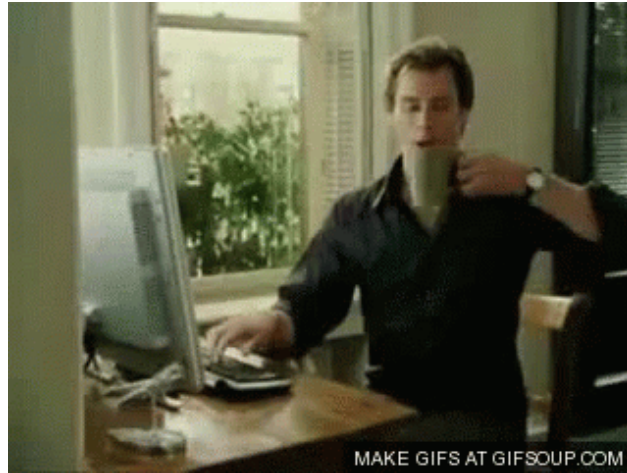
highs and lows

do the work

have fun!

questions? thoughts?

let's go!!!



classroom components

resources/protocols for learning

documents

- notes
- lessons
- workflows
- cheatsheets

online

- google
 - W3schools
 - StackOverflow
- articles
- bookmarks

class

- I do / You do / We do
- code reviews

setup

applications/resources

Chrome

- Canvas
- Github
- Slack

create accounts/teams

canvas <https://canvas.instructure.com/>

github <https://github.com/join>

slack <https://nycda.slack.com/messages/C5F411TT4/>

setup

applications/resources

Chrome

- Canvas
- Github
- Slack
- Google
- Pesticide

bookmarks!

homepage (suggested)

Chrome extension

Chrome > Preferences >
Extensions > Get More Extensions
(bottom of page)

pesticide <https://chrome.google.com/webstore/detail/pesticide-for-chrome/>

setup

applications/resources

Chrome

- Canvas
- Github
- Slack
- Google

Atom

- Emmet

emmet <http://emmet.io/>

Atom > Preferences > +Install >
Search: Emmet

setup

applications/resources

Chrome

- Canvas
- Github
- Slack
- Google

Atom

- Emmet

Terminal

Word, TextEdit, [pen/paper...](#)

setup

web development environments

development

production

testing

setup

building your development environment...

development

- yourself
 - habits
 - highs and lows
 - protocols/conventions
 - time -- time-boxing, break time, timers...

setup

building your development environment...

development

- yourself
- computer
 - directory structures -- organization, configuration
 - documents -- workflows, cheatsheets...
 - tools -- software, libraries, frameworks
 - IT -- installations, updates, settings...

setup

building your development environment...

development

- yourself
- computer
- **workspace**
 - de-clutter

setup

building your development environment...

development

- yourself
- computer
- workspace
- resources
 - paper
 - post-its
 - whiteboard
 - internet -- Google, StackOverflow, W3schools...

setup

directory structure

WDI

```
| _LESSONS
| _WORKFLOWS
| _CHEATSHEETS
| _STARTERS
| _HOMEWORK
| _EXERCISES
| _PROJECTS
|   |_html_css
|   |_javascript
|   |_ruby
|   |_rails
```

lessons -- topic handouts

workflows -- sequential procedures for coding

cheatsheets -- shortcut (or other) references

starters -- pre-made templates/basic code blocks



index.html



styles.css



script.js

homework/exercises/projects

- organized by language (html/css/js/rb)

searching

Google habits and strategies

reasons to search...

- syntax
- research (how to...?)
- standardized error message interpretations

```
javascript set text color of element
```

strategies

- language/framework
 - css, html, ruby, jquery, javascript
 - rails, sinatra, bootstrap, semantic, atom, emmet...
- action words
 - get, set, find, loop, check, select, transform
- specific action
 - [the thing you want to do...]

searching

Google habits and strategies

practices

- *always open a new tab for each search result!* (COMMAND key)
- *bookmark useful references*
 - articles
 - cheatsheets
 - specific code blocks
- *organize your bookmarks*
 - language (html, css, js, rb)
 - library (jquery, bootstrap, semantic, sinatra, rails, devise...)
 - tool (atom, emmet, chrome, pesticide, postman...)
 - component (interface, data, logic, conditionals...)

searching

online resources

- W3schools
- StackOverflow
- TutorialsPoint
- SitePoint
- Codepen