

HACK YALE

< ADVANCED JAVASCRIPT />

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DAY 5

TOURING MORE JAVASCRIPT

THE LAST DAY!

Agenda

- Overview
- More Javascript: a tour
- Angular and Rails
- Feedback
- Good bye!



CLASS OVERVIEW

WHAT WE LEARNED



A QUICK REVIEW

We learned a ton in just 4 weeks!

- Internet basics: requests, responses, clients, servers
- JS basics: objects, functions, callbacks, events
- jQuery, AJAX
- Working with the Facebook API
- Angular: controllers, data-binding, scopes, dependency injection, the digest cycle, UI router

◀ MOST IMPORTANTLY ▶

THE CONFIDENCE WITH JAVASCRIPT
TO TEACH YOURSELF OTHER
FRAMEWORKS AND PLUGINS

◀ ALSO IMPORTANTLY ▶

PERFECT PRACTICE MAKES PERFECT

JAVASCRIPT IS UBIQUITOUS (FOR NOW)

- The most “marketable” language for the web
 - Arguably for any start-up
 - Work at it, and build your own apps with it
- But also keep up with the “latest” frameworks
 - Angular will probably be replaced soon...



MORE JAVASCRIPT

A WHIRLWIND TOUR



MORE ON JAVASCRIPT

- CoffeeScript
- Node.js / Meteor
- Common APIs and auth tokens

COFFEESCRIPT

- “Better” Javascript
 - Indentation based (like Python)
 - Automatically handles vars, semicolons, other “gotchas”
 - Nice syntax for common
- Not another language; compiles *into* Javascript
- CoffeeScript.org

COFFEESCRIPT

- Frameworks will usually compile for you
- If you're not using a framework:
 - Install the coffee command line utility
 - (instructions on coffeescript.org)

NODE.JS

- For the record: technically not a framework
 - A Javascript library that allows you start web servers quickly
 - The “framework” part you have to install additionally — for example Express

NODE.JS: PROS

- Node + Express: the most common JS “framework”
- Code both front and back end in (Java|Coffee)script
- Event-based, just like the front-end
- Easier learning curve
- Light-weight
- Goes nicely with MongoDB

NODE.JS: NOT-PROS

- Smaller community than, say, Rails
- Development start-up time is slower
 - Rails gets you off the ground *quick*
- Community is strong, but not where Rails' is
 - Harder to do somewhat complex tasks

NODE VS RAILS

- The classic question – no right answer
 - I generally use Rails
 - More tools, know it well, <3 gems, go Ruby go!
 - I've tried Node
 - Have to work hard to accomplish things I want to do
 - *Great* for small projects

METEOR.JS

- The new “hip” thing!
 - *Everything* is real-time, automatically
 - Amazing for building real-time games
 - ...for me, community is still not strong enough for other things
- meteor.com



RAILS AND ANGULAR

MY FAVE



RAILS AND ANGULAR

- They work really nicely!
 - angularjs-rails gem
 - Be careful, there are several similar gem
- Build JSON API in Rails
- Use it with Angular
- Perk: backend doesn't rely on a front-end

RAILS + ANGULAR: APP STRUCTURE

- Rafi's way:
 - All routes map to 'main#index' action
 - Create MainController with empty index action
 - View for main/index just contains `<div class="ui-view"></div>`

RAILS + ANGULAR: JAVASCRIPT

- assets/javascripts:
 - angular/app.js (main file)
 - angular/{services, controllers, directives} (other files)
- assets/javascripts/application.js
 - `// = require angular`
 - `// = require angular/app.js`
 - `// = require_tree angular`

RAILS + ANGULAR: TEMPLATES

- All templates in `app/views/templates/`
- In routes file:
 - `get '/templates/*path' => 'main#templates'`
- In MainController, define templates action

```
def templates  
  render "templates/#{params[:path]}"  
end
```

RAILS + ANGULAR

- Lots of tutorials online
- Find the way that works best for you!



ONE LAST TIME!

<http://goo.gl/LMY91x>

PARTING THOUGHTS

- Thanks for your hard work!
 - Next step: put your skills to use
 - Keep an eye out for the HackYale Projects Board
- Stay in touch with the people in this class!
 - Email me whenever at rafi@hackyale.com

ANY LAST QUESTIONS?

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