

The Modern Web Workflow:

The Acronym Inundation Edition

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Agenda

- Git
- Sublime Text
- Emmet
- WebStorm
- LESS or SASS
- Node and NPM
- Grunt...Yeoman
- Jasmine, Mocha, ?
- Testacular..err..Karma
- Angular, Backbone,?
- Mustache, HandleBars, ?
- Underscore, LoDash, ?
- Bootstrap, Foundation, ?

Git it?

- open source, free, etc...
- distributed...snapshot based
- new sliced bread...well, old now
- git clone [https://github.com/angular-ui/
angular-ui.github.com.git](https://github.com/angular-ui/angular-ui.github.com.git)

Git UI

- TortoiseGit! <https://code.google.com/p/tortoisegit/>
- SourceTree <http://www.sourcetreeapp.com/sweet> (Mac)
- <http://github.com>
- <http://bitbucket.org>

Sublime Text

- <http://www.sublimetext.com/>
- Simple, lightweight, yet UBER!
- Super customizable with a plugin API
- x-platform and only \$70
- <http://www.youtube.com/watch?v=TZ-bgcJ6fQo> Tutsplus long video, nice!
- V2 current with V3 in Beta
- package control plugin

Emmet

- Zen Coding!
- <http://emmet.io/>
- plugin for many editors, including Sublime, Notepad++, Brackets, and even VIM!
- VS has this in Web Essentials
- watch the demo!

WebStorm

- <http://www.jetbrains.com/webstorm>
- A JetBrains product
- A subset of IntelliJ geared towards web
- \$99 for a single commercial license
- Lets see it!

Web Essentials

- ZenCoding!
- JSHint, minification, etc
- CSS and LESS support
- CoffeeScript and TypeScript..for now
- <http://vswebessentials.com/>

SASS

- <http://sass-lang.com/>
- Dynamic CSS
- ‘compiled’
- `gem install sass` <-- its a Ruby thing
- `myCss.scss` <-- ‘sassy’ css
- command line or tools like Compass

SASS

- variables
- nesting
- mixins
- inheritance
- <http://css-tricks.com/sass-vs-less/>

less

- CSS preprocessor as well
- similar to SASS, but runs on client
- that is JS!
- of course has a 'server' side tool, Node!
- <http://lesscss.org/>

NodeJS

- “JS all up in your server!”
- evented I/O for the V8 JS Engine
- freaking fast, concurrent, etc...
- oh yeah, even useful for other things

NodeJS

- Many libraries exist, crazy community fever
- nearly 40k packages. like 250k dls a day
- why do we care? well, its cool baby!
- ok, seriously...some serious tools are just nodeJS packages
- <http://nodeexamples.com/>

NPM

- Node Package Manager
- Installed with NodeJS
- simple as: `npm install underscore`
- `package.json` as a manifest
- `node_modules`

Grunt!

- JS task runner
- Think 'A Light Ant' for JS
- plugin based see <http://gruntjs.com/plugins/>
- <http://gruntjs.com/>

Grunt!

- `npm install -g grunt-cli` (global)
- `npm install grunt`
- use a grunt file to define tasks
- Gruntfile.js is said file
- JSON based

Bower

- JS meets Maven, lives to tell about it
- <http://bower.io/>
- `npm install bower` <-- looky there!
- `bower install <package> --save-dev`
- some 3500+ libs
- `bower.json` as manifest (`component.json`)

Yeoman

- sort of combines: Grunt, Bower, and Yo
- <http://yeoman.io>
- Scaffolding from Yo (think Rails)
- package management from Bower (think Maven)
- tasks from Grunt (think Ant)
- `npm install -g yo grunt-cli bower`
- `yo webapp` <- default scaffold

Yeoman

- Many generators exist, roll your own
- `npm install -g generator-angular generator-karma`
- `yo angular`
- `yo angular:controller myController`

Yeoman

- a flow...
- `yo angular` <- scaffold out
- `bower install angular-ui --save-dev` <- find and install the angular-ui library
- `grunt` <- build it!
- `grunt server` <- start a server in PWD using live reload!

Jasmine

- BDD based testing framework
- <http://pivotal.github.io/jasmine/>
- <http://tryjasmine.com/>
- `describe("Jasmine", function() { it("makes testing JavaScript awesome!", function() {`

`expect(yourCode).toBeLotsBetter();`

`});`

`}`

Jasmine

- `describe("Jasmine Suite", function() {
 it("this spec makes testing JavaScript awesome!", function() {
 expect(yourCode).toBeLotsBetter();
 });
});`
- Suites
- Specs

Karma

- “A simple tool that allows you to execute JavaScript code in multiple real browsers”
- A test runner, not a test framework
- use Jasmine, Mocha, ?
- e2e and unit
- `npm -g install karma`

PhantomJS

- <http://phantomjs.org/>
- headless testing
- good for Jenkins, TeamCity,
- uses a headless webkit instance

Backbone.js

- <http://backbonejs.org/>
- 'back bone'
- low level and somewhat boilerplate
- MV* based
- add your own stuff: jQuery, lodash, etc
- Do your own thing

BackboneJS

- see if we get lucky....
- \$ git clone git://github.com/jthoms1/todomvc-grunt.git

install dependent plugins

\$ cd todomvc-grunt

\$ npm install # Install grunt dev dependencies into /node_modules

\$ bower install # Install front-end resources from bower into /components

\$ grunt watch

<https://github.com/jthoms1/todomvc-grunt>

Angular

- Superheroic JS MVW framework
- Google!
- <http://angularjs.org/>
- Descriptive, yet opinionated
- kitchen sink, well well tested
- <http://docs.angularjs.org/guide/>

Handlebars

- JS logic-less templates
- <http://handlebarsjs.com/>
- `<h1>{{title}}</h1>`
- Would you use in Angular?

Underscore

- <http://underscorejs.org/>
- JS utilities
- Collections, Arrays, Functions, ...
- `Array.last()`, `Array.shuffle()`, ...
- Might use Lo-Dash instead...superset at this point
- Use with Backbone, but not Angular, why?

Bootstrap

- Twitter!
- mobile first strategy
- grid based
- uses less....but sass fans are happy too
- <http://getbootstrap.com/>

Foundation

- Responsive CSS framework
- mobile first strategy
- grid based, uses sass...sorry less fans
- <http://foundation.zurb.com/>
- <http://foundation.zurb.com/grid.php>

Chrome Dev Tools

- Google Chrome bleeding edge Canary
- <https://www.google.com/intl/en/chrome/browser/canary.html>
- can install side-by-side with Chrome
- <https://developers.google.com/chrome-developer-tools/>
- <http://discover-devtools.codeschool.com/>
- <http://www.rbyers.net/janky-touch->

Misc

- <http://jsbin.com>
- <http://jsfiddle.net/>
- <http://dotfiles.github.io/>
- Paul Irish on workflow http://www.youtube.com/watch?feature=player_embedded&v=Mk-tFn2Ix6g
- Osmani on Yeoman https://www.youtube.com/watch?feature=player_embedded&v=HlIsp9axHE

Misc

- <http://jtaby.com/blog/2012/04/23/modern-web-development-part-1>
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WHERE WILL THESE SLIDES BE?

- www.cubicleman.com/presentations/ATLCodeCamp
- doug@cubicleman.com