CoffeeScript
handlebars
B
Sencha
GRUNT
YEOMAN
HTML 5
less
ember
browserify
jQuery
write less, do more.
node js
S
WS
B
Sass.
(style with attitude)
Karma
Jasmine
TypeScript
PREVIEW
npm
Visual Studio
compass

The Modern Web Workflow:

The Acronym Inundation Edition

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Agenda

- Git

- Sublime Text

- Emmet

- A couple...

- LESS or SASS

- Node and NPM

- Grunt...Yeoman

- Jasmine, Mocha, ?

- Testacular..err..Karma

- Angular, Backbone,?

- Mustache, HandleBars, ?

- Underscore, LoDash, ?

- Bootstrap, Foundation, ?

- Chrome Dev tools

Git it?

- open source, free, etc...

- distributed...snapshot based

- new sliced bread...well, old now

- social! da..da...dotfiles!

- git clone https://github.com/angular-ui/angular-ui.github.com.git

Git UI

- TortoiseGit! https://code.google.com/p/tortoisegit/ for the winders crowd

- SourceTree http://www.sourcetreeapp.com/ sweet (Mac) for the fanboys

- command line for the cool kids

- http://github.com

- http://bitbucket.org

Sublime Text

- 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

- http://cflove.org/2013/09/switch-to-sublime-text-ide-for-coldfusion-developers.cfm

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
- server stuff...boring!! well, maybe not...

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/ <- guess who?

NPM

- Node Package Manager

- Installed with NodeJS

- simple as: npm install underscore

- package.json as a manifest

- node_modules

- http://package.json.nodejitsu.com/

But Why?

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

- 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
  HTML5Boilerplate, jQuery, etc...

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

- All JS functions

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-tFn2lx6g](http://www.youtube.com/watch?feature=player_embedded&v=Mk-tFn2lx6g)

- Osmani on Yeoman https://www.youtube.com/watch?feature=player_embedded&v=H11sp9axHE

Misc

- http://jtaby.com/blog/2012/04/23/modern-web-development-part-1

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WHERE WILL THESE SLIDES BE?

- https://speakerdeck.com/douglasknudsen

- **doug@cubicleman.com**