

# AngularJS: Lesson 5

Scaffolding with Yeoman  
Gulp Workflow

# Scaffolding: Web Development Wisdom, encapsulated

The modern web developer's toolkit

# Modernizr

<http://modernizr.com/>

Detection library for modern web features

Adds CSS classes to <html> according to feature support

Allows you to write progressive enhancements or fallbacks

```
.svg {  
    background-image: url(bg.svg);  
}  
  
.no-svg {  
    background-image: url(bg.png);  
}
```

[view plain](#) [copy to clipboard](#) [print](#) ?

```
01. <html class=" js no-flexbox no-canvas no-canvas-text no-webgl no-touch no-
    geolocation postmessage no-web-sql database
02. no-indexeddb no-hashchange no-history drag-and-drop no-websockets no-rgba no-
    hsla no-multiplebgs no-background-size
03. no-border-image no-border-radius no-box-shadow no-text-shadow no-opacity no-
    css-animations no-css-columns no-css-gradients
04. no-css-reflections no-css-transforms no-css-transforms3d no-
    css-transitions font-face no-generated-content no-video
05. no-audio no-local-storage no-session-storage no-web-workers no-
    application-cache no-svg no-inline-svg no-smil
06. no-svg-clip-paths no-placeholder">
```

# Polyfills

<https://github.com/Modernizr/Modernizr/wiki/HTML5-Cross-Browser-Polyfills>

Fill in missing browser features

Common ones I use:

json2.js  
es5-shim  
CSS3 PIE

# Useful Links

<https://www.modern.ie/en-us/virtualization-tools>

<http://caniuse.com>

# Normalize.css

<http://necolas.github.io/normalize.css/>

Creates consistent baseline of styles across  
browsers

```
html {  
  font-family: sans-serif;  
  -ms-text-size-adjust: 100%;  
  -webkit-text-size-adjust: 100%;  
}  
  
body {  
  margin: 0;  
}
```

# Sass

<http://sass-lang.com/>

All the features you wish CSS had

Introduces some higher-level language concepts to CSS:

```
$logo-red : #ff2222;  
  
h1 {  
  color: $logo-red;  
}  
  
.button {  
  color: $logo-red;  
  @include border-radius(1em);  
}
```



# HTML5 Boilerplate

<http://html5boilerplate.com/>

Includes Modernizr, jQuery and normalize.css

Responsive, cross-browser HTML, CSS & JS baseline

Provides hooks for IE fallback CSS

Doesn't provide styles or UI components

# Bower

<http://bower.io/>

Package manager for JS libraries

# Gulp

<http://gulpjs.com/>

Front-end build tool

Optimize JS, CSS, images

# Yeoman

<http://yeoman.io/>

Scaffolding tool for the modern web stack

Written by people who've long been involved in making web development easier. Creators of Modernizr, HTML5 Boilerplate, CSS3 Please, HTML5 Rocks

Goal is to encapsulate best practices and common stacks

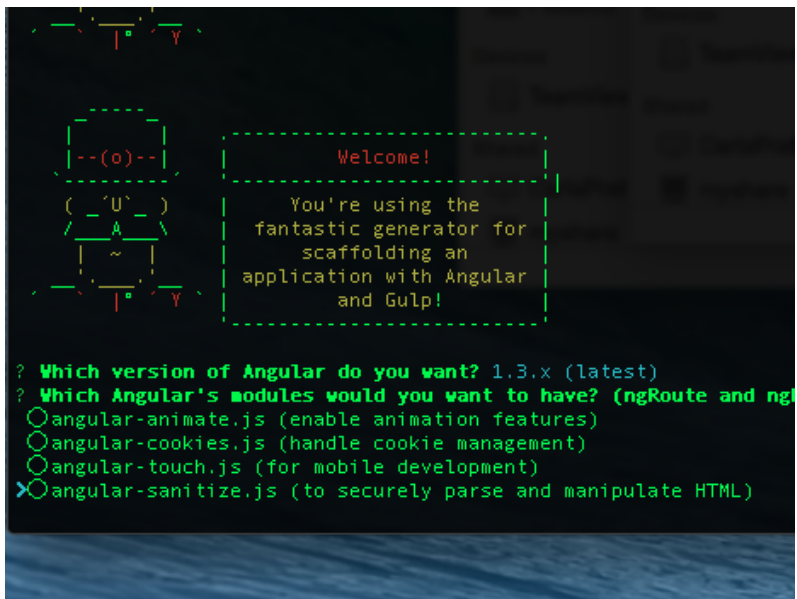
# Installing Yeoman for Angular + Gulp

```
$ npm install --global yo  
$ npm install -g gulp  
$ npm install -g bower  
$ npm install -g generator-gulp-angular  
$ mkdir angularjs-tutorial  
$ cd angularjs-tutorial  
$ yo gulp-angular angularjs-tutorial
```

permissions problems? `sudo npm install & bower install`

<https://github.com/Swiip/generator-gulp-angular>

# Yeoman setup, Continued



A terminal window showing the Yeoman generator setup process. At the top, a dashed green box contains a ASCII art logo of a person with arms raised, with the text '--(o)--' below it. To the right of this, another dashed green box contains a 'Welcome!' message and a description of the generator. Below these boxes, two green prompts are visible: 'Which version of Angular do you want?' and 'Which Angular's modules would you want to have?'. The first prompt has '1.3.x (latest)' selected. The second prompt has a list of modules with radio buttons, and 'angular-sanitize.js' is selected with an 'X'.

```
--(o)--

Welcome!

You're using the
fantastic generator for
scaffolding an
application with Angular
and Gulp!

? Which version of Angular do you want? 1.3.x (latest)
? Which Angular's modules would you want to have? (ngRoute and ng
  ☐ angular-animate.js (enable animation features)
  ☐ angular-cookies.js (handle cookie management)
  ☐ angular-touch.js (for mobile development)
  X☒ angular-sanitize.js (to securely parse and manipulate HTML)
```



Welcome!

You're using the  
fantastic generator for  
scaffolding an  
application with Angular  
and Gulp!

- ? **Which version of Angular do you want?** 1.3.x (latest)
  - ? **Which Angular's modules would you want to have? (ngRoute and ngResource will be addressed after)**
  - ? **Would you need jQuery or perhaps Zepto?** jQuery 1.x (branch still supporting IE6, 7 and 8)
  - ? **Would you like to use a REST resource library?** ngResource, the official support for RESTful services
  - ? **Would you like to use a router?** UI Router, flexible routing with nested views
  - ? **Which UI framework do you want?** Bootstrap, the most popular HTML, CSS, and JS framework
  - ? **How do you want to implement your Bootstrap components?** Angular UI Bootstrap, Bootstrap components written in pure AngularJS by the AngularUI Team
  - ? **Which CSS preprocessor do you want?** Less, extends the CSS language, adding features that allow variables, mixins, functions and many other techniques.
  - ? **Which JS preprocessor do you want?** None, I like to code in standard JavaScript.
  - ? **Which html template engine would you want?** None, I like to code in standard HTML.
- create bower.json

# Running your new web app

```
$ gulp serve
```

Open <http://localhost:3000/>



## Errors :/

If your “gulp serve” command doesn’t work  
try...

manual bower and npm installs as admin. Run commands:

\$ bower install

\$ sudo npm install

# To the code!