



**GDG Sacramento**



# Hands-On Introduction to Angular JS

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# Angular JS: What it is

- Open-source web application framework, maintained by Google and the community
- Decouple DOM manipulation from application logic
- Decouple the client side of an application from the server side
- Provide structure for the journey of building an application (MVC pattern)
- Started in 2009 - Version 1.0 in 2012 - 1.4 in 2015
- 2.0 next year

# Hello Angular

- Set-up of an Angular JS application
- Expressions
- Model (scope) View (HTML) Controller (JS)
- ng-app, ng-controller, ng-bind

See the [code here](#)

# Angular Models and ng-click

- ng-model = 2-way data binding
- Javascript objects
- Independent scopes
- ng-click to invoke scope function

See the [code here](#)

# Your turn!

- Traffic Light example
- Add three buttons to change the light's color

Fork the code here:

<http://goo.gl/O5bPc7>

# Solution

- <http://goo.gl/TgXaYS>

# Angular ng-repeat

- ng-repeat
- \$index

See the [code here](#)

# Angular Directives

- A directive is a reusable component
- Think “widget” if that helps
- ng-repeat, ng-model are Angular directives
- Directives allow advanced DOM manipulation

See the code here - <http://goo.gl/IWkOZD>



# Your turn!

- Display a list of traffic lights based on the following list from `$scope.lights`  
[‘green’, ‘yellow’, ‘red’]

Fork the [code here](http://goo.gl/Gxrqu4):

<http://goo.gl/Gxrqu4>

# Solution

- <http://codepen.io/achautard/pen/ojmpJa?editors=101>

# Angular ng-filter

- | operator
- filters (default, by attribute value, custom)
- orderBy (+ / - for ascendant/descendant)
- uppercase, lowercase, currency

See the [code here](#)

# Angular \$http

- Angular service for http requests
- Dependency injection
- success / error methods
- Model update

See the [code here](#)

# Your turn!

- Display a list of traffic lights based on data from:

<http://interstate21.com/demos/angular/lights.php>

- Bonus exercise: Make the data refresh every 5 seconds

Fork the [code here](#)

# Solution

- <http://goo.gl/4J4j2K>

# That's it for tonight...

- Thanks for coming!
- Raffle for JetBrains software license

<http://www.meetup.com/Sacramento-Angular-Meetup/>