



Google

Developers



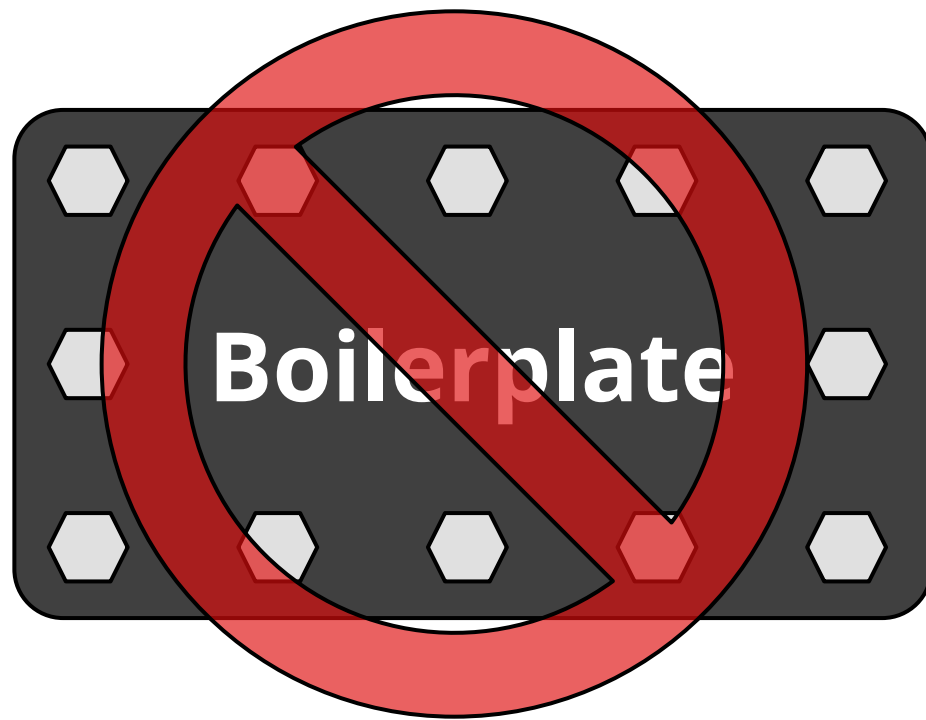
Design Principles of AngularJS

Miško Hevery
Father of AngularJS

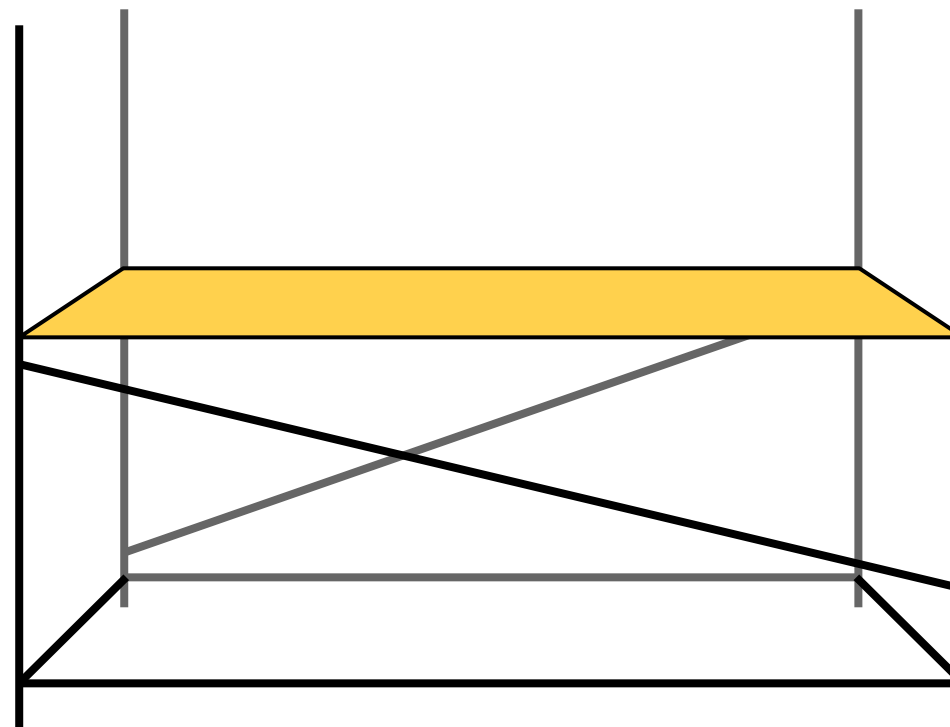
Brad Green
Manager-guy of AngularJS



The Principles



D.R.Y.



Structure



Testability



2009: GetAngular

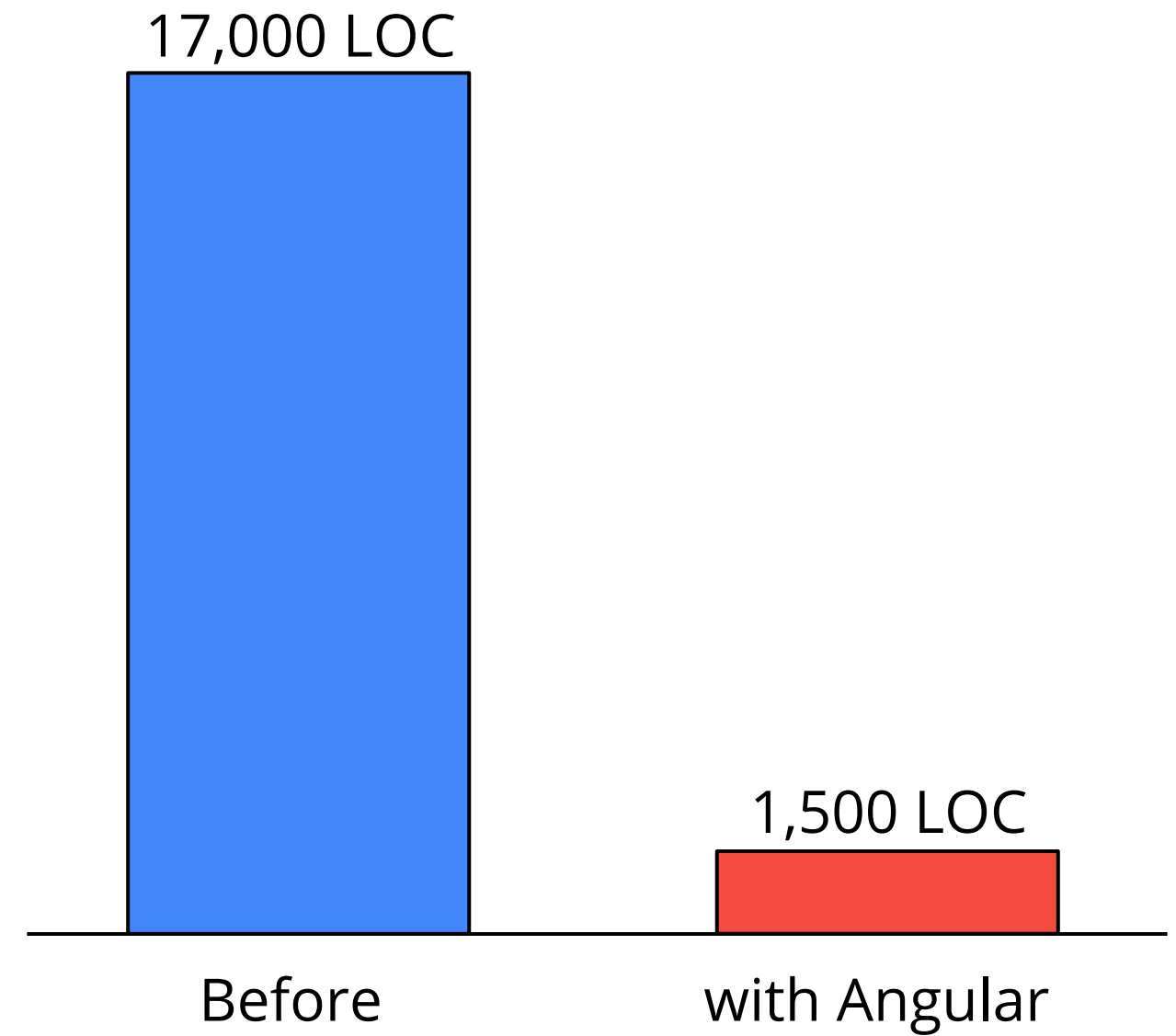
<angular />

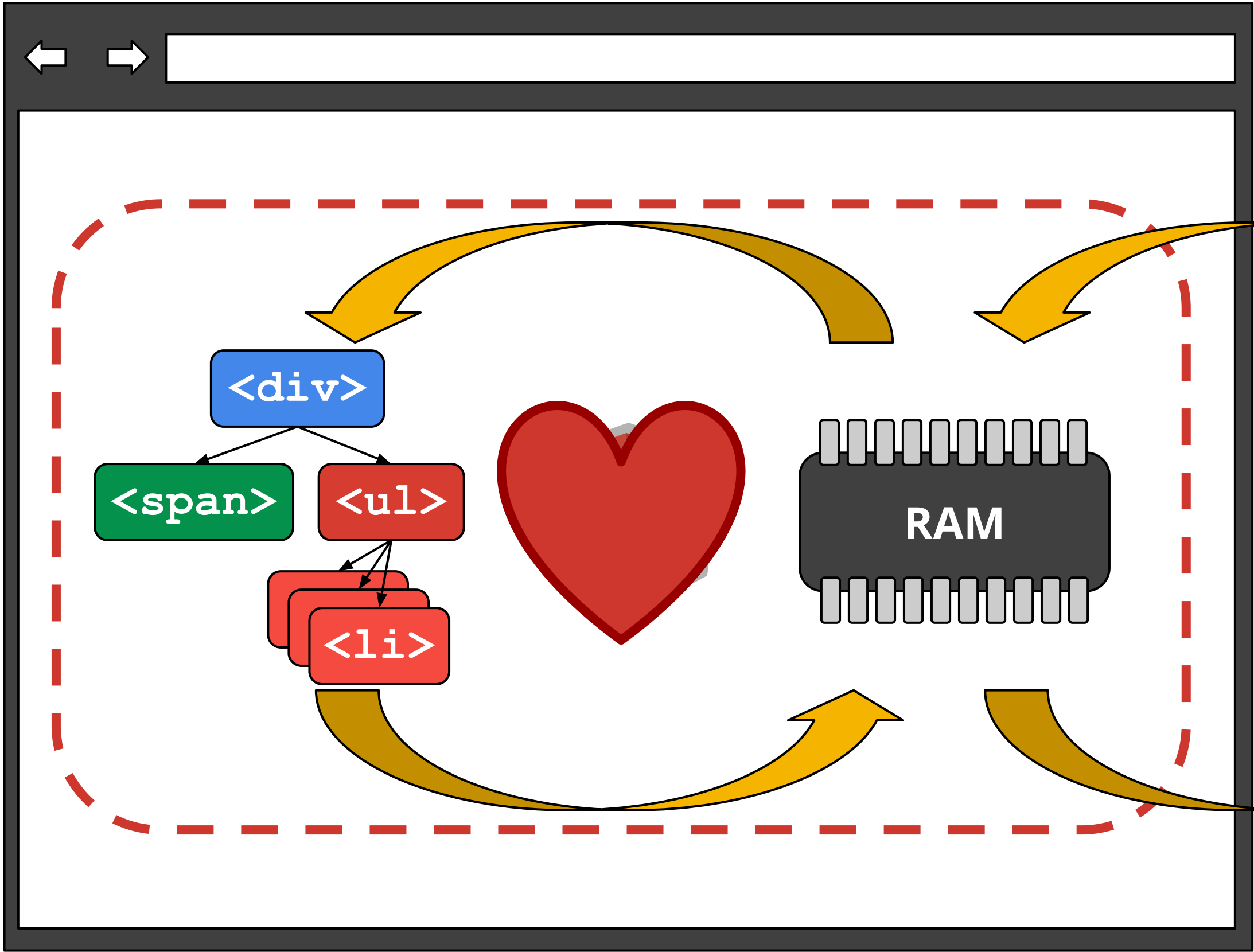


Project



Results





Data Binding

```
<html ng-app>
<body>
  <input ng-model='user.name'>
  <p ng-show='user.name'>Hi {{user.name}}</p>

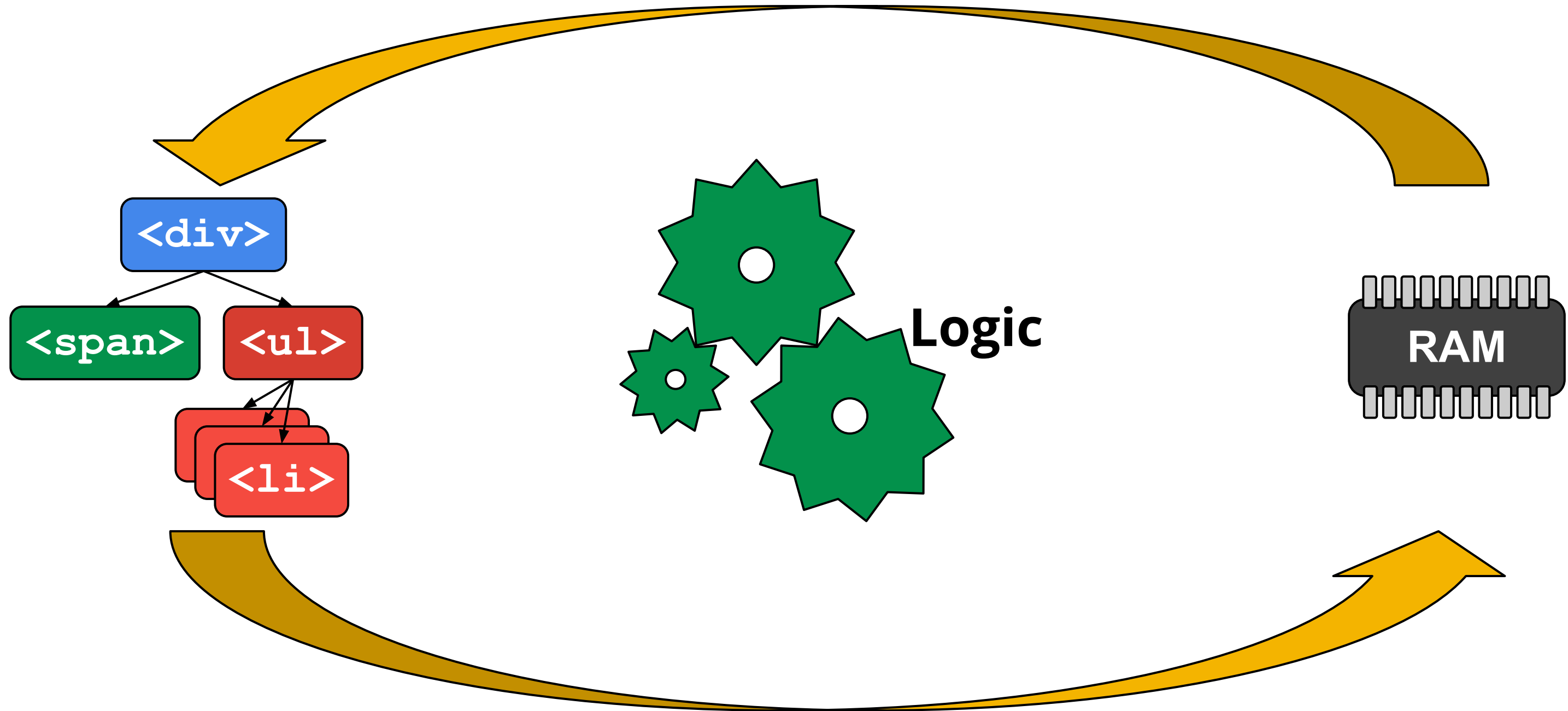
  <script src='angular.js'></script>
</body>
</html>
```



Eureka:
DOM



`{{ databinding }}`



MVC

```
<html ng-app>
<body ng-controller='UserCtrl as uCtrl'>
  Hi <input ng-model='uCtrl.user.first'>
  <button ng-click='uCtrl.bye()'>bye</button>

  <script src='angular.js'></script>
  <script src='UserControllers.js'></script>
</body>
</html>
```

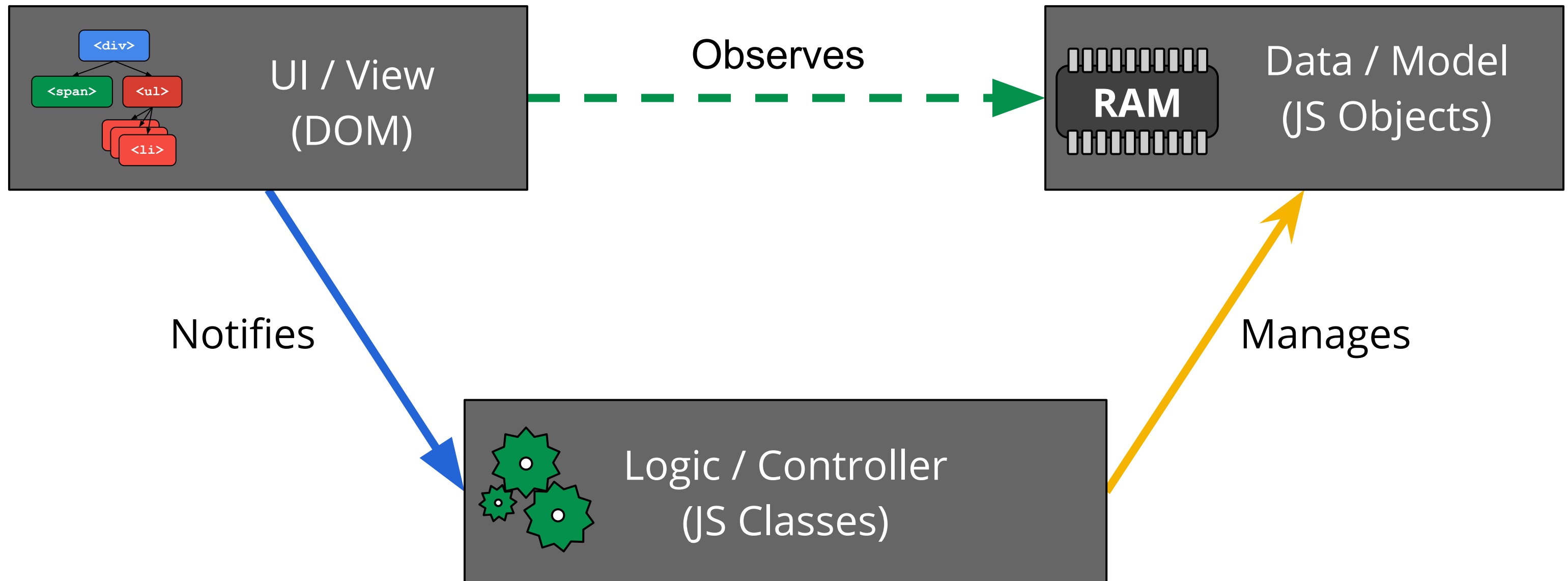
index.html

```
function UserCtrl() {
  this.user = {
    first:'Larry',
    last:'Page'
  };
  this.bye = function() {
    alert('bye:' + this.user.first);
  };
}
```

UserController.js

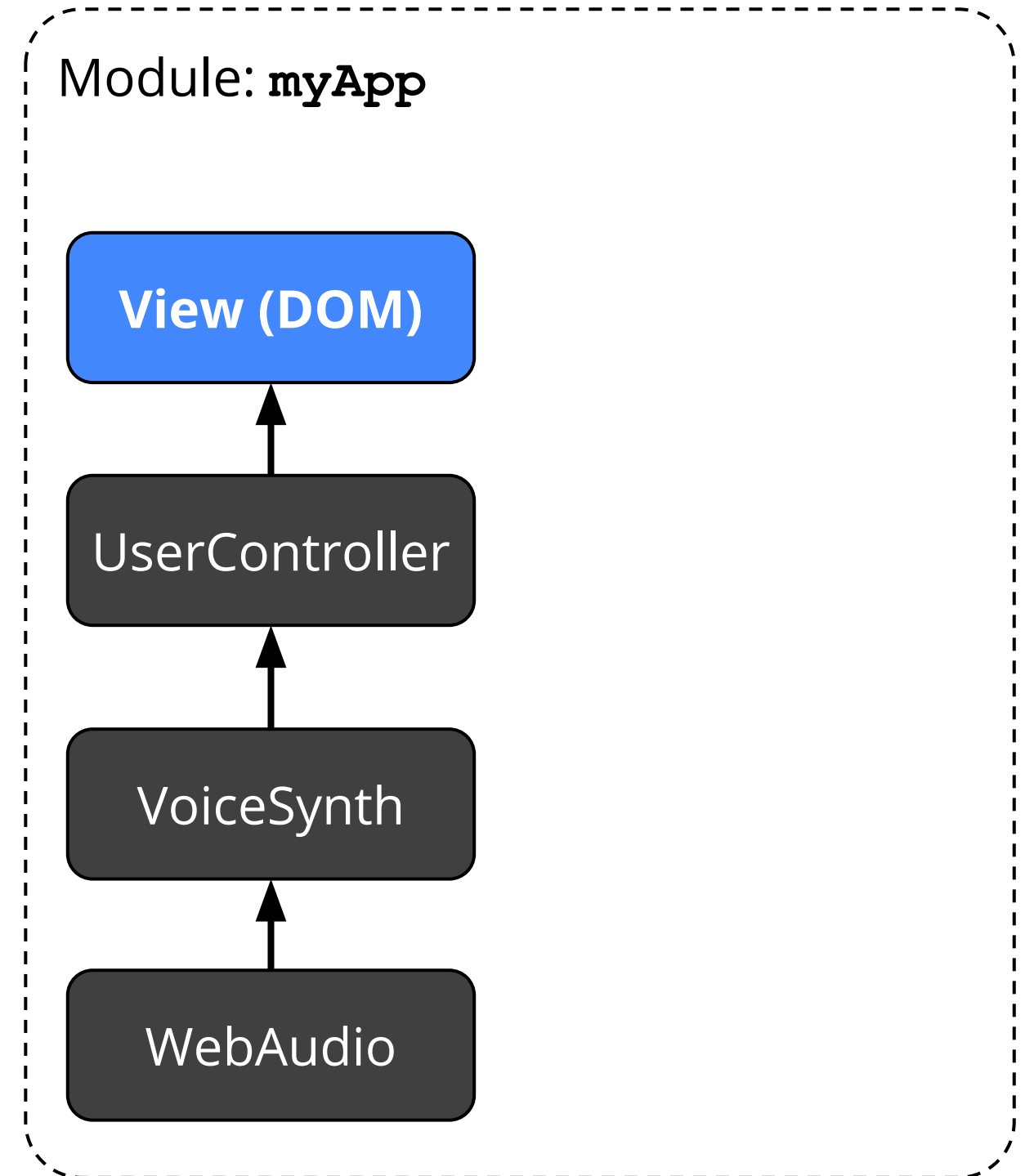


Structure



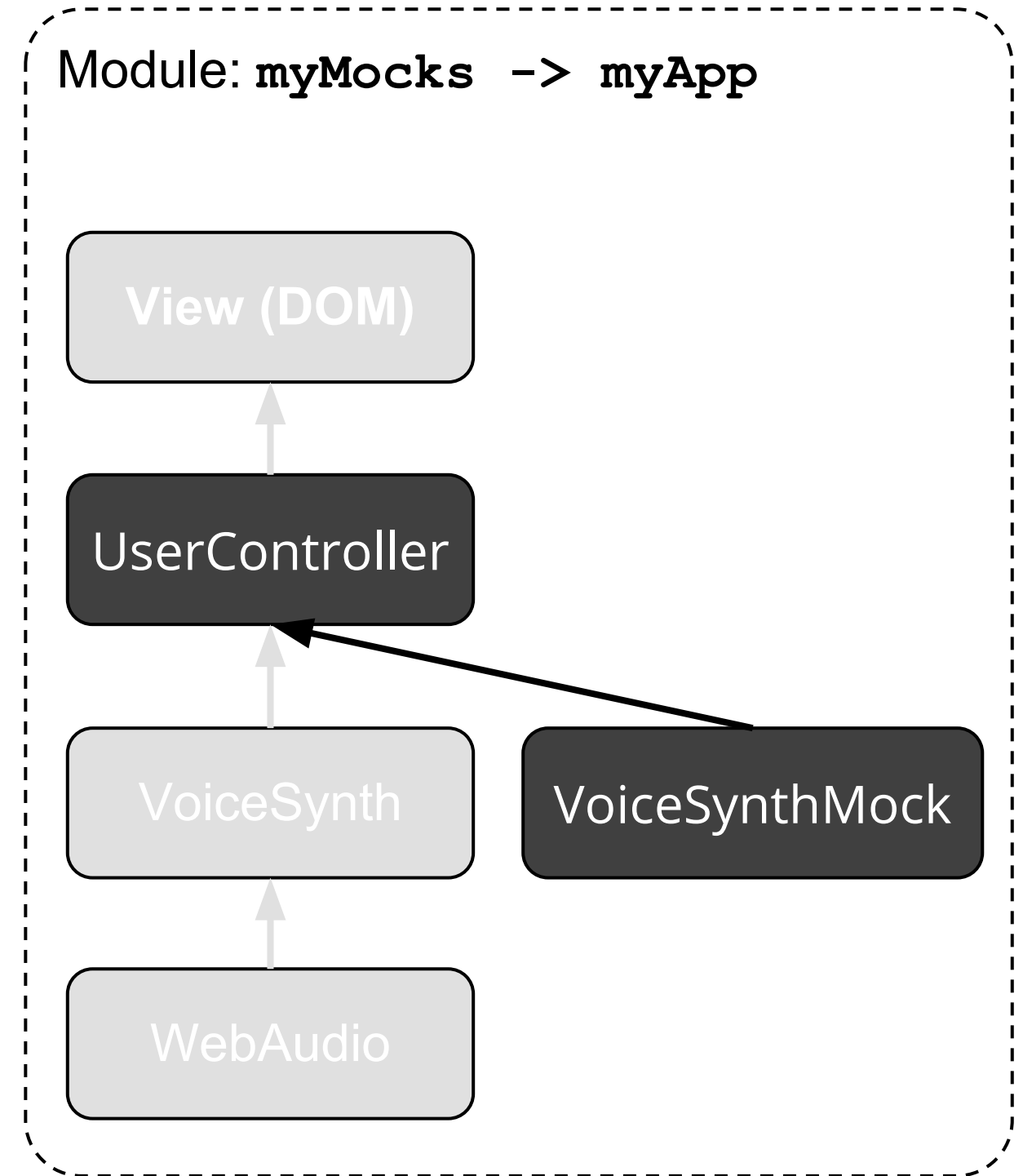
Dependency Injection

```
function UserController(voiceSynth) {  
  this.user = { first:'Larry', last: 'Page' };  
  this.bye = function() { voiceSynth.say('bye') };  
}  
  
function VoiceSynth(webAudio) {  
  this.say = function(text) {// do Web Audio stuff};  
};  
  
var myApp = angular.module('myApp', []);  
myApp.controller('UserController', UserController);  
myApp.service('voiceSynth', VoiceSynth);
```



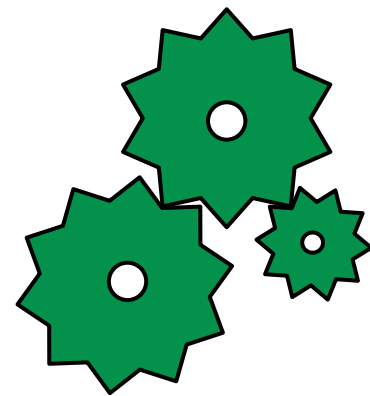
Dependency Injection: Mocking

```
function VoiceSynthMock() {  
  this.say = function(text) {  
    this.said.push(text);  
  };  
  this.said = [];  
};  
  
var myMocks = angular.module('myMocks', ['myApp']);  
myApp.service('voiceSynth', VoiceSynthMock);
```

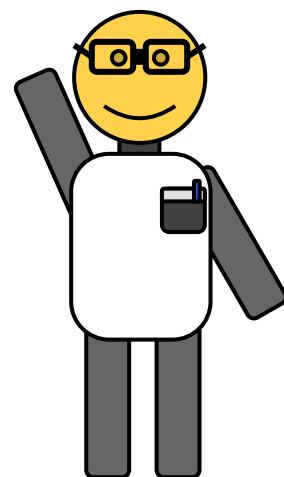


Imperative

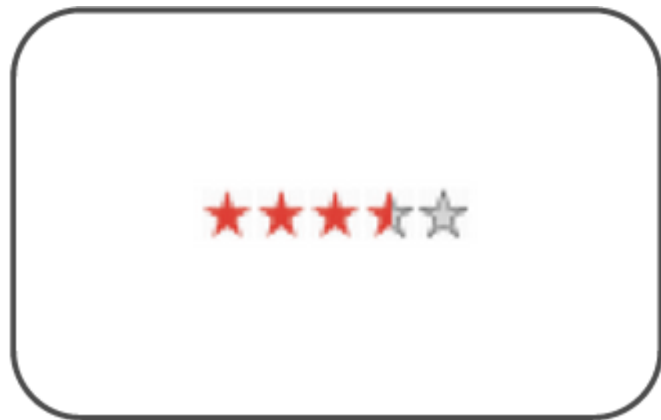
Declarative



```
{{ databinding }}  
ng-hide  
ng-controller  
ng-model  
my-tab  
my-pane  
my-map
```



Directives as Components



```
<rating max="5" model="stars.average">  
</rating>
```



```
<tabs>  
  <tab title="Active tab">...</tab>  
  <tab title="Inactive tab">...</tab>  
</tabs>
```



```
<span tooltip="{{messages.tip1}}">
```





Live Coding

Miško types while Brad tap-dances...

Community



Ecosystem

Tools



Batarang



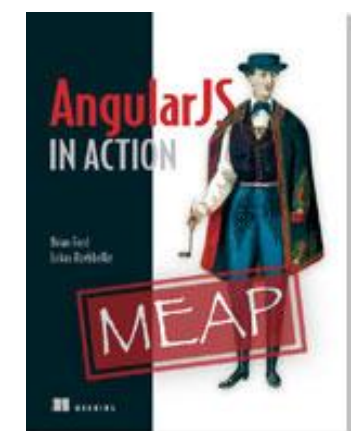
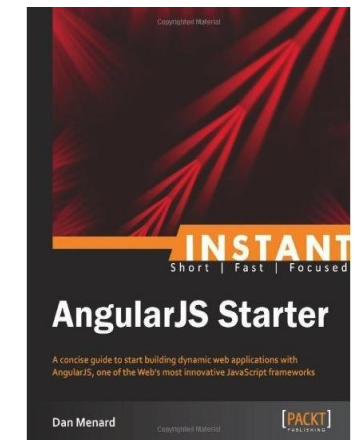
UI Components



Libraries



Books



Thank You!

angularjs.org

+angularjs

@angularjs

@mhevery

@bradlygreen



Code samples: <http://goo.gl/N1sCd>



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