

# ui-router and \$state

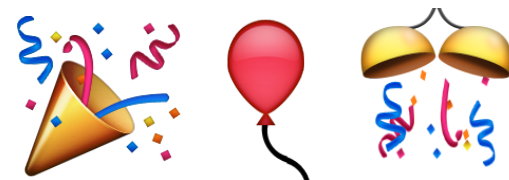
gabe scholz



who has heard of ui-router?



what is the **role** of a **controller**?



what is the **role** of a **model**?

agenda 🥰

**ui-router**

>

**ngRoute**

using routing to control state

If you're using **ngRoute**  
you might be hacking state  
into your application.



**routes**

views

dependencies

state

bonus features

routes

**views**

dependencies

state

bonus features

routes

views

**dependencies**

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bonus features



routes

views

dependencies

**state**

bonus features

routes

views

dependencies

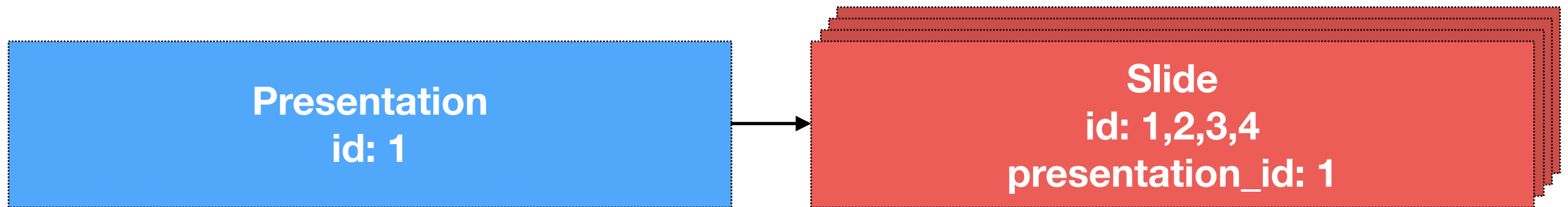
state

**bonus features**

# housekeeping 🏠

```
angular.module('app', ['ngRoute', 'ui.router'])  
.config(function ($routeProvider, $stateProvider)  
{  
    // DO SOME STUFF! 🙌  
});
```

# housekeeping



`/presentation/:presentation_id/show`

`/presentation/:presentation_id/slide/:slide_id`

# routes

```
$routeProvider
```

```
.when('/presentation/:id/show', {  
  templateUrl: 'presentation.tpl.html',  
  controller: 'PresentationCtrl',  
  ...  
});
```

```
$stateProvider
```

```
.state('presentation', {  
  url: '/presentation/:id/show',  
  templateUrl: 'presentation.tpl.html',  
  controller: 'PresentationCtrl',  
  ...  
});
```

# routes

```
$routeProvider
```

```
.when( '/presentation/:id/show', {  
  templateUrl: 'presentation.tpl.html',  
  controller: 'PresentationCtrl',  
  ...  
})  
  
.when( '/presentation/:id/slides/:slide_id', {  
  templateUrl: 'presentationSlide.tpl.html',  
  controller: 'PresentationSlideCtrl',  
  ...  
});
```

# routes

```
$stateProvider
.state('presentation', {
  url: '/presentation/:id',
  templateUrl: 'presentation.tpl.html',
  ...
})
.state('presentation.show', {
  url: '/show',
  templateUrl: 'presentationShow.tpl.html',
  controller: 'PresentationCtrl',
  ...
})
.state('presentation.slide', {
  url: '/slide/:slide_id',
  templateUrl: 'presentationSlide.tpl.html',
  controller: 'PresentationSlideCtrl',
  ...
});
```

# views



`<div ng-view></div>`

presentation.tpl.html

`<div ng-view></div>`

presentationSlide.tpl.html



# views



**<div ui-view></div>**

**presentation.tpl.html**

**<div class='titleBar'>...</div>**

**<div ui-view></div>**

```
$stateProvider
.state('presentation', {
  url: '/presentation/:id',
  templateUrl:
    'presentation.tpl.html',
  ...
});
```

# views



**<div ui-view></div>**

**presentation.tpl.html**

**<div class='titleBar'>...</div>**

**presentationSlide.tpl.html**

```
$stateProvider
.state('presentation.slide', {
  url: '/slide/:slide_id',
  controller: ...
  templateUrl:
    'presentationSlide.tpl.html'
  ...
});
```

# views



**<div ui-view></div>**

**presentation.tpl.html**

**<div class='titleBar'>...</div>**

**<div ui-view='sideBar'></div>  
<div ui-view='mainContent'></div>**

```
$stateProvider
.state('presentation', {
  url: '/presentation/:id',
  controller: ...
  templateUrl:
    'presentation.tpl.html',
  ...
});
```

# views



**<div ui-view></div>**

**presentation.tpl.html**

**<div class='titleBar'>...</div>**

**sideBar**

**mainContent**

```
$stateProvider
.state('presentation.slide', {
  url: '/slide/:slide_id',
  views: {
    ???
  },
  ...
});
```

# views



**<div ui-view></div>**

**presentation.tpl.html**

**<div class='titleBar'>...</div>**

**sideBar.  
tpl.html**

**mainContent**

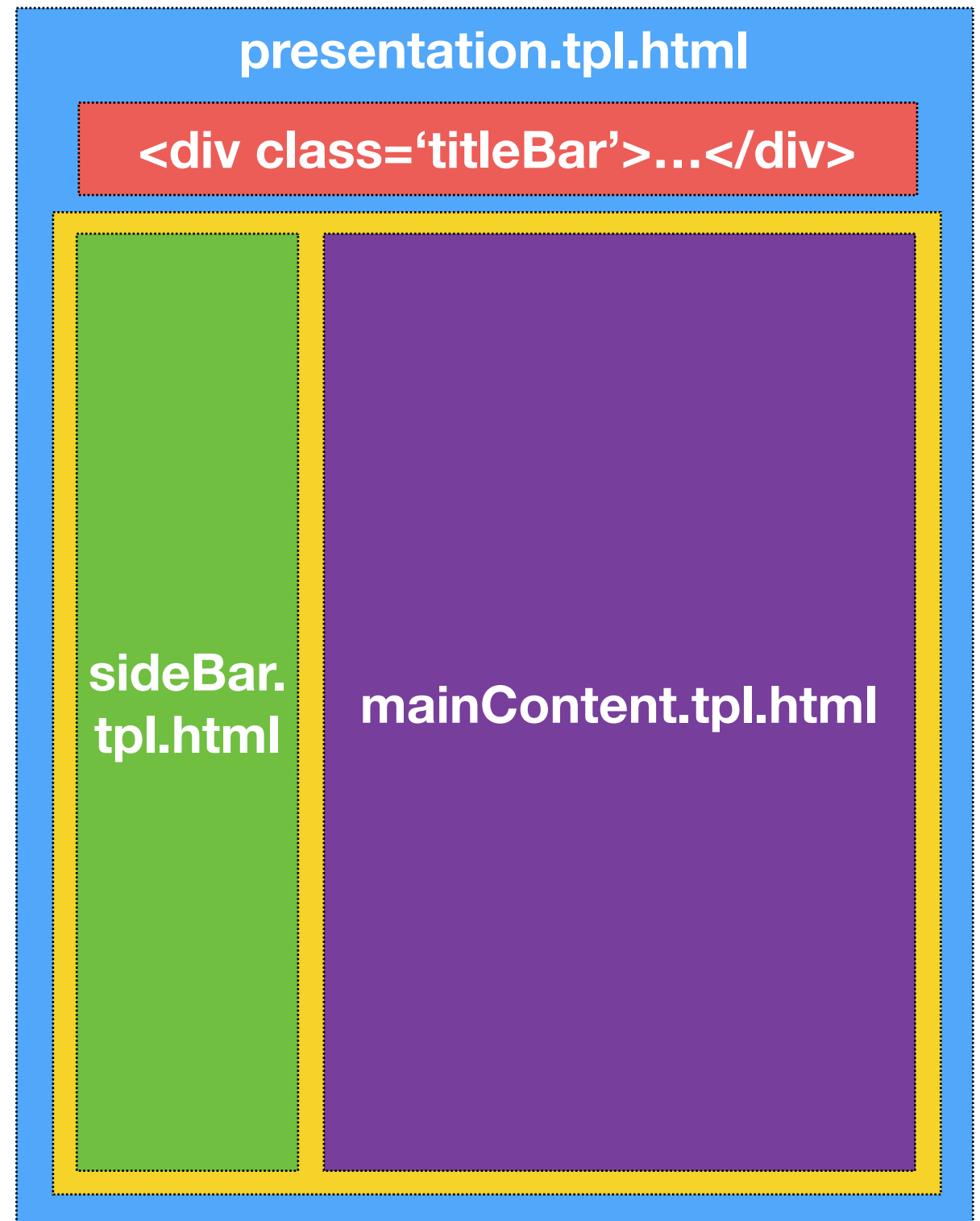
```
$stateProvider
.state('presentation.slide', {
  url: '/slide/:slide_id',
  views: {
    sideBar: {
      controller: ...
      templateUrl:
        'sideBar.tpl.html'
    }
  },
  ...
});
```

# views



```
$stateProvider
.state('presentation.slide', {
  url: '/slide/:slide_id',
  views: {
    sideBar: {
      controller: ...
      templateUrl:
        'sideBar.tpl.html'
    },
    mainContent: {
      controller: ...
      templateUrl:
        'mainContent.tpl.html'
    }
  },
  ...
})
```

**<div ui-view></div>**



# views



**<div ui-view></div>**

**presentation.tpl.html**

**<div class='titleBar'>...</div>**

**showContent.tpl.html**

```
$stateProvider
.state('presentation.show', {
  url: '/show',
  views: {
    sideBar: {
      template: ''
    },
    mainContent: {
      controller: ...
      templateUrl:
        'showContent.tpl.html'
    }
  },
  ...
});
```

# dependencies 🍼

```
$routeProvider
.when('/presentation/:id/show', {
  ...
  resolve: {
    presentation: function ($routeParams, PresentationApi) {
      return PresentationApi.get($routeParams.id);
    }
  }
});
```

```
$stateProvider
.state('presentation' {
  url: 'presentation/:id',
  ...
  resolve: {
    presentation: function ($stateParams, PresentationApi) {
      return PresentationApi.get($stateParams.id);
    }
  }
});
```



# resolve aside

```
angular.module('app', ['ngRoute'])

.config(function ($routeProvider) {
  $routeProvider
    .when('/presentation/:id/show', {
      ...
      resolve: {
        presentation: function ($routeParams, PresentationApi) {
          return PresentationApi.get($routeParams.id);
        }
      }
    });
});

.controller('PresentationCtrl', function ($scope, presentation) {
  $scope.presentation = presentation;
});
```

# dependencies 🧒

```
angular.module('app', ['ngRoute'])

.config(function($routeProvider) {
  $routeProvider
    .when('/presentation/:id/show', {
      ...
      resolve: {
        presentation: function ($routeParams, PresentationApi) {
          return PresentationApi.get($routeParams.id);
        }
      }
    })
    .when('/presentation/:id/slides/:slide_id', {
      ...
      resolve: {
        presentation: function ($routeParams, PresentationApi) {
          return PresentationApi.get($routeParams.id);
        }
        slide: ... ???
      }
    });
});

.controller('PresentationSlideCtrl', function ($scope, slide) {
  $scope.slide = slide;
});
```

# dependencies 🍼

```
angular.module('app', ['ngRoute'])
```

```
.controller('PresentationSlideCtrl',  
function ($scope, slide) {  
  $scope.slide = slide;  
});
```

```
.controller('PresentationSlideCtrl',  
function ($scope, $routeParams) {  
  $scope.slide = SlideApi.get($routeParams.slide_id);  
});
```

```
.controller('PresentationSlideCtrl',  
function ($scope, $routeParams, presentation) {  
  $scope.slide =  
    presentation.getSlideById($routeParams.slide_id);  
});
```

# dependencies 🍼

```
angular.module('app', ['ngRoute'])
```

```
.controller('PresentationSlideCtrl',  
function ($scope, slide) {  
  $scope.slide = slide;  
});
```

```
.controller('PresentationSlideCtrl',  
function ($scope, $routeParams) {  
  $scope.slide = SlideApi.get($routeParams.slide_id);  
});
```

```
.controller('PresentationSlideCtrl',  
function ($scope, $routeParams, presentation) {  
  $scope.slide =  
    presentation.getSlideById($routeParams.slide_id);  
});
```

# dependencies 🍼

```
angular.module('app', ['ngRoute'])
```

```
.controller('PresentationSlideCtrl',  
function ($scope, slide) {  
  $scope.slide = slide;  
});
```

```
.controller('PresentationSlideCtrl',  
function ($scope, $routeParams) {  
  $scope.slide = SlideApi.get($routeParams.slide_id);  
});
```

```
.controller('PresentationSlideCtrl',  
function ($scope, $routeParams, presentation) {  
  $scope.slide =  
    presentation.getSlideById($routeParams.slide_id);  
});
```

# dependencies 🍼

```
$stateProvider
.state('presentation', {
  ...
  resolve: {
    presentation: function ($stateParams, PresentationApi) {
      return PresentationApi.get($stateParams.id);
    }
  }
})
.state('presentation.slide', {
  ...
  resolve: {
    slide: function ($stateParams, presentation) {
      return presentation.getSlideById($stateParams);
    }
  }
});
```

“state”? 🙄

```
$stateProvider
```

```
.state('presentation', {
```

```
...
```

```
  controller:
```

```
    function ($scope, presentation) {
```

```
      $scope.presentation = presentation;
```

```
    },
```

```
    resolve: {
```

```
      presentation: function (...) {
```

```
        PresentationApi.get($stateParams.id);
```

```
      }
```

```
    }
```

```
  })
```

```
.state('presentation.slide', {...})
```

```
.state('presentation.edit', {...})
```

```
.state('presentation.show', {...});
```



```
$state.go('presentation.slide.show', { id: 1, slide_id: 2});
```

```
    $state.go('user.delete', {id: 42});
```

```
        $state.go('.edit');
```

# bonus features

```
$stateProvider
.state('presentation', {
  abstract: true,
  ...
})
.state('presentation.slide', {
  abstract: true,
  ...
})
.state('presentation.edit', {...})
.state('presentation.show', {...})
.state('presentation.slide.edit', {...})
.state('presentation.slide.show', {...});
```

# bonus features 🍰

```
$state  
.state  
  abstract: true
```

```
...  
})  
.state  
  abstract: true
```

[www.medium.com/@gabescholz](https://www.medium.com/@gabescholz)

```
...  
})  
.state  
.state  
.state  
.state
```

# bonus features

```
angular.module('app', ['ui.router'])

.config(function ($stateProvider) {
  $stateProvider
    .state('presentation.edit', {
      data: {
        permissions: {
          admin: true
        }
      },
      ...
    });
})

.run(function ($rootScope, $state) {
  var currentUser = $rootScope.currentUser;

  $rootScope.$on('$stateChangeStart', function (...) {
    if (toState.data.permissions.admin && !currentUser.admin) {
      event.preventDefault();
      $state.go('home');
    }
  });
});
```

routes views dependencies state bonus

# bonus features

```
<a ui-sref="^.slide({slide_id: (slide.id + 1)})">  
  Next Slide  
</a>
```

```
<a ui-sref="^.slide({slide_id: (slide.id - 1)})">  
  Previous Slide  
</a>
```



thanks