ANGULAR WEEK 3

Agenda

- Component bindings
- URL Routing
- **■** Filters

COMPONENT BINDINGS

Component Bindings

- Maps HTML attributes to properties on the component controller, as specified in the component definition
- Values passed through attributes are bound to the component controller (\$ctrl)

```
angular.module('app.people')
    .component('peopleItem', {
        template: '<h4>{{ $ctrl.person.name }}</h4>',
        bindings: {
            person: '<'
        }
    })</pre>
```

Parent component HTML:

```
<people-item ng-repeat="person in $ctrl.persons"
    person="person"></people-item>
```

Input Bindings: '<', '@'

- Passing data down to the child component
- One-way binding: '<'</p>
- String literal binding: '@'

Parent component HTML:

```
<people-detail person="person"
    comment="Just some commment"
    my-title="'Mentor'"></people-detail>
```

Output Bindings: '&'

- Passing events up to the parent component
- Beware: pass event parameters as JS object (name/value pairs)!

```
angular.module('app.people')
    .component('peopleList', {
        templateUrl: '...',
        controller: peopleListController
        bindings: {
            onClick: '&'
        }
    })
```

Parent component HTML:

```
<people-list on-click="$ctrl.onClick(person)"></people-list>
```

Two-way Bindings: '='

- Two-way sharing of data between child and parent component
- Changes in child component are reflected in the parent component
- ... and vice versa
- Do not use without good reason: performance-wise expensive (watchers)

```
templateUrl: '.....',
bindings: {
   item: '='
})
```

URL ROUTING

URL Routing

- Swapping views in the DOM by changing the URL
- No ng-show, ng-hide or ng-if involved
- Angular 1.4 router **ngRoute**: no further development
- Third-party router AngularUI router (ui.router): popular and advanced alternative
- Inserts active view inside ui-view directive
- Example **index.html**:

ui.router Configuration

Route to component

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

```
angular.module('app.people')
    .config(routing)
function routing($stateProvider) {
    $stateProvider
        .state('list', {
            url: '/',
            component: 'peopleList'
        })
        .state('person', {
            url: '/person/:id',
            component: 'personDetail'
        })
```

Changing Route State

For example, to URL: '/person/:id'

```
<button ui-sref="person({id: person.id})">see</button>

<a ui-sref="person({id: person.id})">see</a>
<a ng-href="person/{{id}}">see</a>

function myController($state) {
    var vm = this
    vm.onClick = function(id) {
        $state.go('person', {id: id})
    }
}
```

Accessing State Parameters

■ Use the \$stateParams service from ui.router

```
angular.module('app.people')
    .component('personDetail', {
        templateUrl: 'app/people/detail/detail.component.html',
        controller: peopleDetailController
    })
function peopleDetailController($stateParams, peopleService) {
    var vm = this
    peopleService.getById($stateParams.id)
        .then(function(person) {
            vm.person = person
        })
```

URL Routing and Deep Linking

- Each route is responsible for its own data
- Make no assumptions on how the route was reached
- Users may deep-link to your route or use the browser's navigation buttons or the browser's history function

ANGULAR FILTERS

Angular Filters

- Angular filters transform data before it is processed by a component
- They can help to reduce the logic in controllers
- Most often used in HTML, but can also be used in code (\$filter service)
- You can roll your own

Examples of standard Angular Filters

```
<l
{{ person.name }}
limitTo:5">
<input type="text" ng-model="$ctrl.filterText">
```

Available Filters

- Standard Angular filters:
- currency
- date

Available Filters

- Standard Angular filters
- currency
- date
- filter
- limitTo
- lowercase
- number
- orderBy
- uppercase

- Third-party library angular-filter
- Collection filters (after, afterWhere, ...)
- String filters (endsWith, repeat, ...)
- Math filters (min, max, ...)
- Boolean filters (isNull, isDefined)

https://github.com/a8m/angular-filter