




PATRICK TREYER, 23.11.2016

A solid orange horizontal bar spanning the width of the slide at the bottom.

Agenda

- I. Was ist AngularJS?
 - II. Nutzen
 - III. Single-page-Webanwendungen
 - IV. 2-Wege-Datenbindung
 - V. Elemente von AngularJS
 - VI. Übung
 - VII. Neue Features in Angular 2
- 

Was ist AngularJS?

-> **clientseitiges JavaScript-Webframework**

Entwickler: Google Inc

Erscheinungsjahr: 2009

Lizenz: MIT

Aktuelle Versionen: 1.5.6 (AngularJS 1)
2.1.0 (AngularJS 2)

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INTRODUCING

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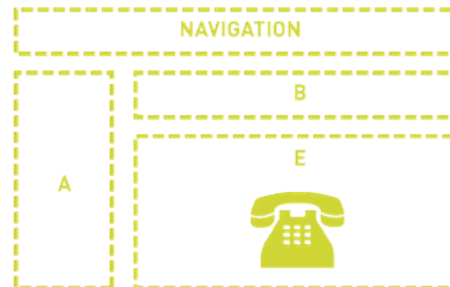
Nutzen

- Code-Reduktion
- Single-page-Webanwendungen
- Zwei-Wege-Datenbindungen
- Wiederverwendbare Komponenten und gute Lesbarkeit
- MVC-Pattern
- Verwendung der Datentypen von JavaScript
- Testbarkeit und Refaktorisierung

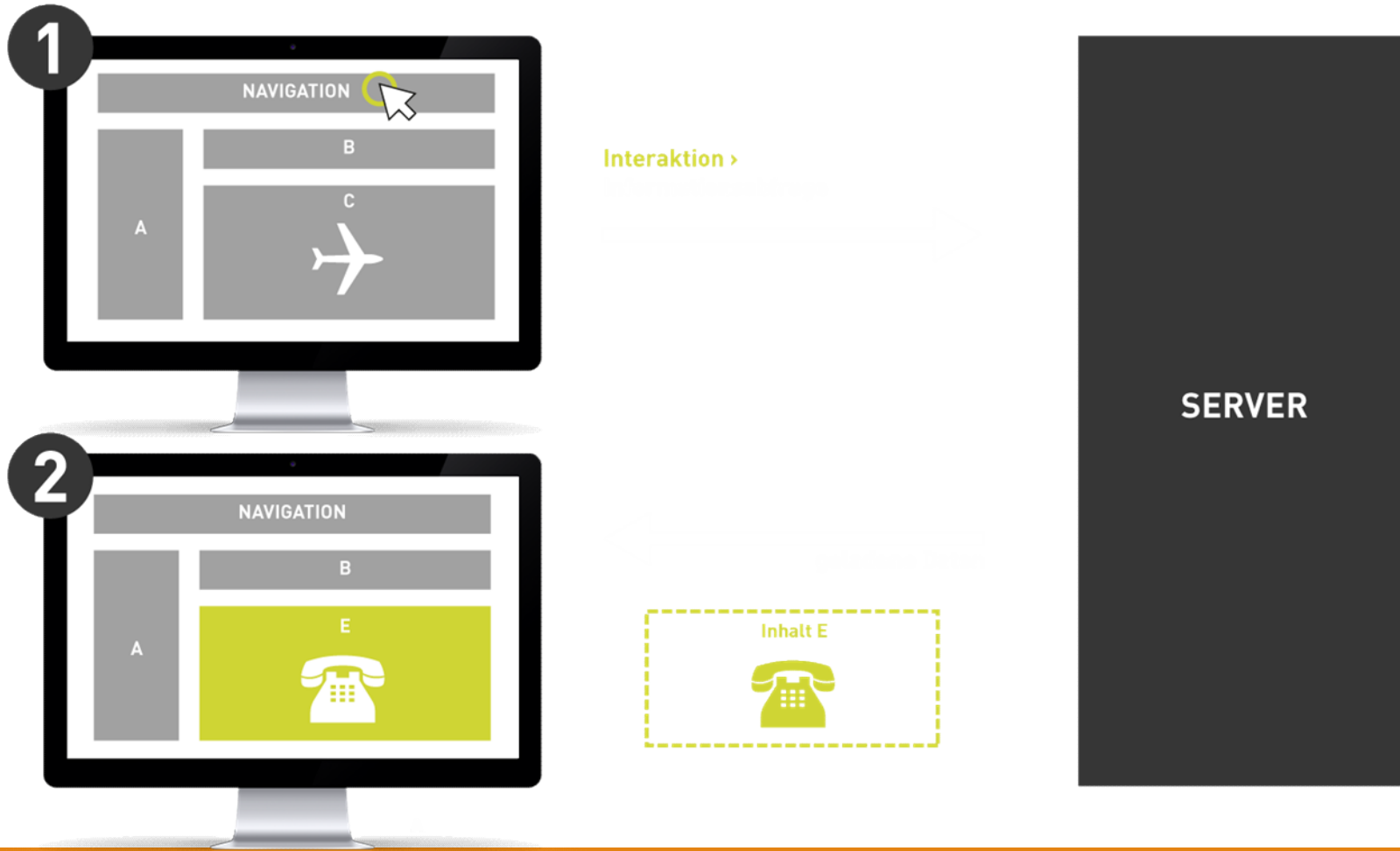
Klassische Webanwendungen



Interaktion >

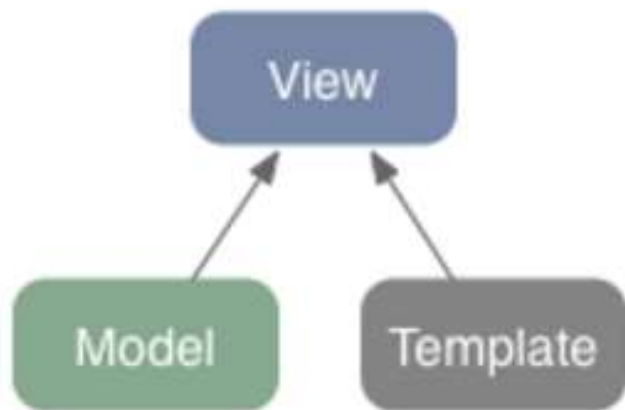


Single-page-Webanwendungen

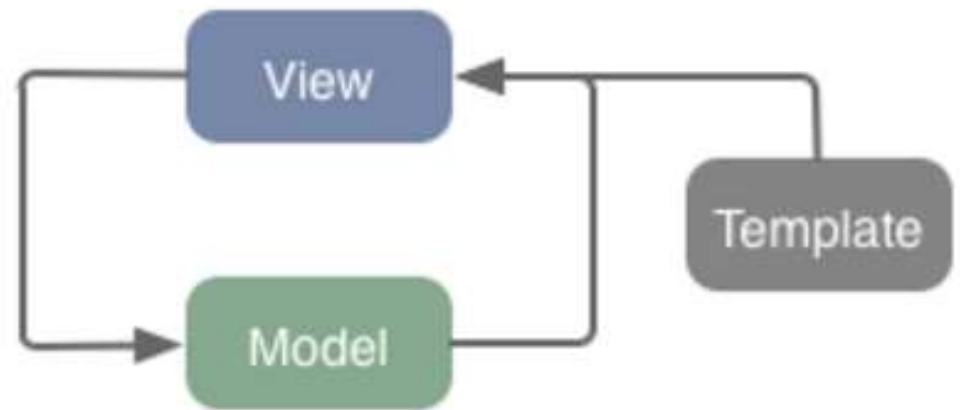


2-Wege-Datenbindung

One-Way Binding



Two-Way Binding



Grundaufbau

```
<html ng-app>
<head>
  <meta charset="utf8" />
  <title>AngularJS Tutorial</title>
  <link rel="stylesheet" href="https://netdna.bootstrapcdn.com/bootstrap/3.1.1/css/bootstrap.min.css">
</head>
<body>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.4.0/angular.js"></script>
</body>
</html>
```

Direktiven

```
<div class="form-group">  
  <input ng-model="registration.pw" type="password" placeholder="Passwort..."  
    class="form-control"  
    id="form-password" oninput="validatePw()" ng-required="true">  
</div>
```

Direktiven | ng-repeat

```
<table class="table">
  <tr ng-repeat="article in articles">
    <td>{{article}}</td>
  </tr>
</table>
```

Direktiven | ng-show

Direktiven | ng-click

Scopes & Controller (HTML)

```
<table class="table" ng-controller="ArticlesCtrl">
  <tr ng-repeat="article in articles">
    <td>{{article.id}}</td>
    <td>{{article.name}}</td>
    <td>{{article.price}}</td>
  </tr>
</table>
```

Scopes & Controller (JavaScript)

```
angular.module('tutorialApp', [])  
  .controller('ArticlesCtrl', function($scope){  
    $scope.articles = [  
      { id: 1, name: 'Pizza Vegetaria', price: 5 },  
      { id: 2, name: 'Pizza Salami',    price: 5.5 },  
      { id: 3, name: 'Pizza Thunfisch', price: 6 }  
    ];  
  });
```


Services

Routing

▼ FILES

app.js

index.html

README.md

New file

▼ VERSIONS 33

▼ PLUNK

Description:

AngularJS exercise

Tags:

Enter tags

User:

ptreyer

Privacy:

private plunk

2 <html ng-app="myApp">

3

4 <head>

5 <!--AngularJS Script -->

6 <script data-require="angular.js@1.5.8" data-semver="1.5.8" src="https

7 <!--AngularJS App -->

8 <script src="app.js"></script>

9 <!-- Bootstrap -->

10 <link data-require="bootstrap@4.0.0-alpha.2" data-semver="4.0.0-alpha.

11 <script data-require="bootstrap@4.0.0-alpha.2" data-semver="4.0.0-alpha.

12 </head>

13

14

15 <body ng-controller="myController">

16

17 <div style="margin: 20px 10px 20px 10px; text-align:center">

18 <h1>Meine Klausurenübersicht</h1>

19 </div>

20

21 <div style="margin: 50px 10px 50px 10px">

22 <form id="myForm" role="form" method="post" class="login-form">

23 <div class="form-group">

24 <input ng-model="klausur.name" type="text" placeholder="Klau:

25 </div>

26 <div class="form-group">

27 <input ng-model="klausur.semester" type="input" placeholder=

28 </div>

29 <div class="form-group">

30 <input ng-model="klausur.note" type="input" placeholder="Not

31 </div>

32 <button ng-click="addKlausur()" type="submit" class="btn">Kl

33 </form>

34 </div>

35

36 <div class="table-responsive">

37 <table class="table">

38 <thead>

39 <tr>

Meine Klausurenübersicht

Name	Semester	Note
Mathematik	2	1.4
Compilerbau	3	1.4
Rechnerarchitektur	3	2.2

Übung

Neue Features in Angular 2

- Mobile Support
- Bessere Performance
- Controller & Scopes wurden ersetzt
- Neue und veränderte Direktiven
- TypeScript
- Dependency Injection
- ...

Neue Features in Angular 2

Robin Böhm, März 2016

“Angular 2 wird sein ganzes Potential wohl erst in einigen Jahren entfalten können”

Links und Literatur

Nützliche Links:

- angularjs.org/
- www.youtube.com/user/angularjs
- blog.angularjs.org/

Tutorial:

- <https://angularjs.de/artikel/angularjs-tutorial-deutsch>

Quellen

<https://angularjs.org/>

<https://angularjs.de/artikel/angularjs-tutorial-deutsch>

<https://lemonbrain.ch/blog/2016/01/single-page-webanwendung-einfach-erklaert>