

Agenda

- Motivation
- First steps
- Our first Components
- HTTP access

SOFTWARE architekt.at

Motivation

Page • 4

SOFTWARE architekt.at

4

Plattformen und Usability



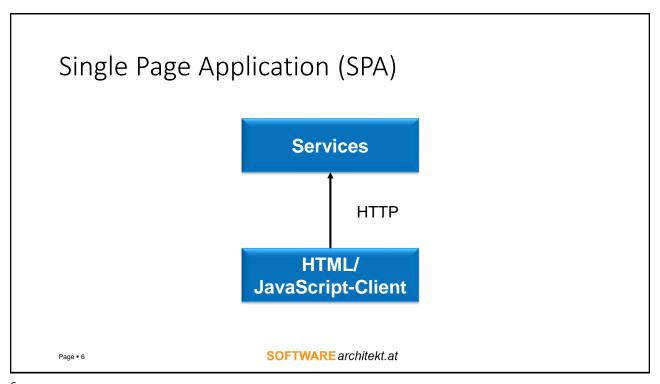






HTML + JavaScript

SOFTWARE architekt.at





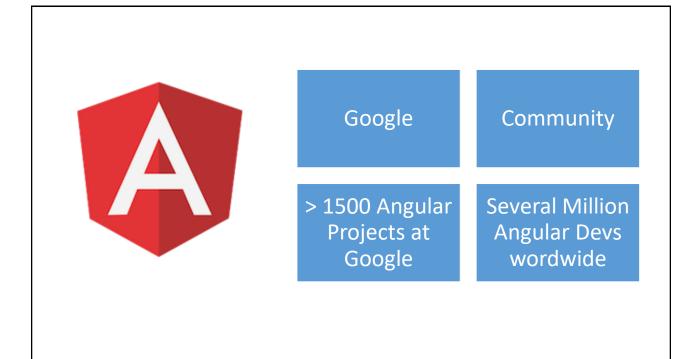
/



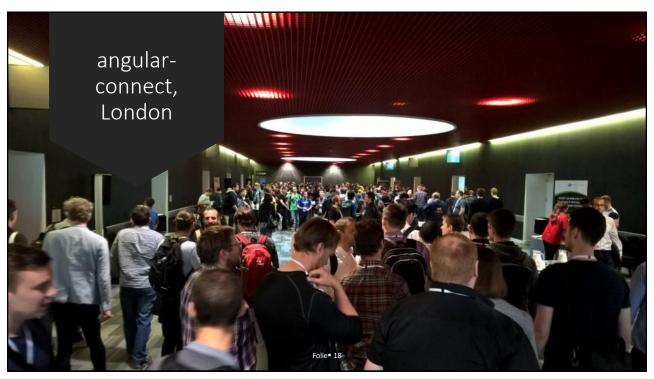
Use of frameworks lead to manageable SPAs

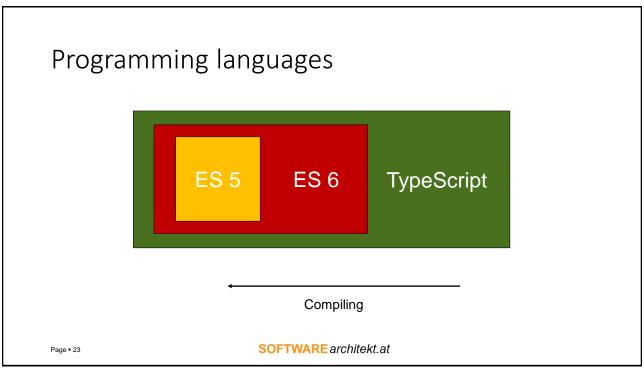
Page =

8











AppComponent

```
@Component({
    selector: 'flight-app',
    templateUrl: './app.component.html'
})
export class AppComponent {
    title = 'Hello World!';
}
```

Page • 38

SOFTWARE architekt.at

38

AppComponent

```
import { Component } from '@angular/core';

@Component({
    selector: 'flight-app',
    templateUrl: './app.component.html'
})
export class AppComponent {
    title = 'Hello World!';
}

Library
Example: @angular/core

Custom project
Example: ../entities/flight
No file extension .ts
```

Page • 39

SOFTWARE architekt.at

AppComponent

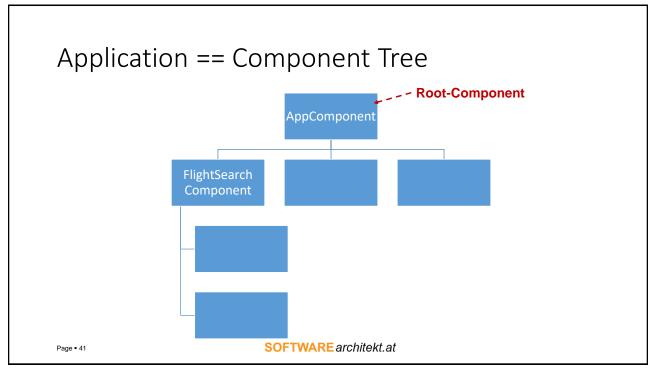
```
import { Component } from '@angular/core';

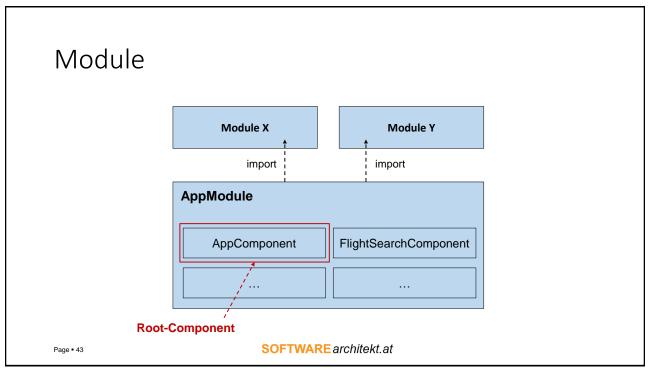
@Component({
    selector: 'flight-app',
        templateUrl: './app.component.html'
})

export class AppComponent {
    title = 'Hello World!';
}

<h1>{{title}}</h1>
<div class="container">
        <flight-search></flight-search>
</div>

SOFTWARE architekt.at
```





AppModule

```
@NgModule({
    imports: [
        BrowserModule, HttpClientModule, FormsModule
    ],
    declarations: [
        AppComponent, FlightSearchComponent
    ],
    bootstrap: [
        AppComponent
    ]
})
export class AppModule {
}

SOFTWARE architekt.at
```

index.html

47

Project Start



How this starter kit was created

- ng new starter
- cd starter
- npm i bootstrap --save
- Add Files for Bootstrap Theme to Folder assets
- Insert global styles in .angular-cli.json

```
[...]
"styles": [
    "styles.css",
    "../node_modules/bootstrap/dist/css/bootstrap.css",
    [...]
],
[...]
SUFTWAKE arcnitekt.at
```

DEMO

Page • 61

SOFTWARE architekt.at

61



Component as TypeScript Class

```
@Component({
    selector: 'flight-search',
        templateUrl: './flight-search.html'
})
export class FlightSearchComponent {
    from: string;
    to: string;
    flights: Array<Flight>;
    search(): void { [...] }
    select(flight: Flight): void { [...] }
}
```

Page • 64

SOFTWARE architekt.at

64

Template Two-Way-Binding Event-Binding <input [(ngModel)]="from"> <input [(ngModel)]="to"> <button [disabled]="!from || !to" (click)="search()"> Search Property-Binding </button> {{flight.id}} {{flight.date}} {{flight.from}} {{flight.to}} **SOFTWARE** architekt.at Page ■ 71



HttpClient

- get(url, options)
- post (url, body, options)
- put(url, body, options)
- delete(url, options)
- ...

HttpClient

- get<T>(url, options)
- post<T>(url, body, options)
- put<T>(url, body, options)
- delete<T>(url, options)
- ...

SOFTWARE architekt.at

75

Inject HttpClient

```
@Component({
    selector: 'flight-search',
        templateUrl: './flight-search.html'
})
export class FlightComponent {

    from: string;
    to: string;
    flight: Array<Flight>;

    constructor(http: HttpClient) { [...] }

    search(): void { [...] }
    select(flight: Flight): void { [...] }
}
```

```
let url = 'http://www.angular.at/api/flight';
```

SOFTWARE architekt.at

79

Use HttpClient

SOFTWARE architekt.at

81

Use HttpClient

SOFTWARE architekt.at

84

Use HttpClient

SOFTWARE architekt.at

86

Use HttpClient

DEMO

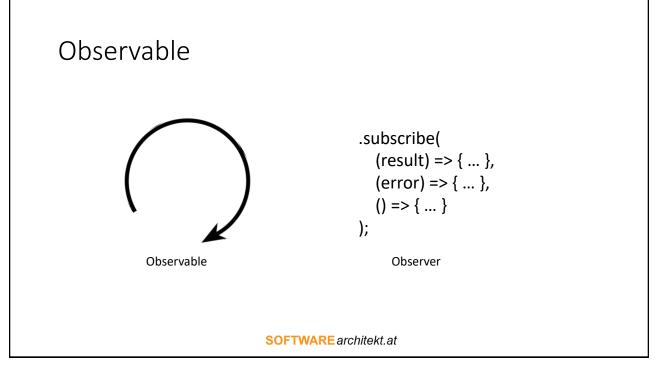
SOFTWARE architekt.at

98

Use HttpClient

SOFTWARE architekt.at





Map operator

```
this
    .http
    .get(...)
    .map(flights => mapToOffers(flights))
    .subscribe(
         (offers) => { ... },
         (err) => { console.error(err); }
);
```

SOFTWARE architekt.at

103

DEMO

Page • 104

SOFTWARE architekt.at