

#### Inhalt

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- Eine erste Komponente
- HTTP-Zugriff

# Motivation

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# Plattformen und Usability

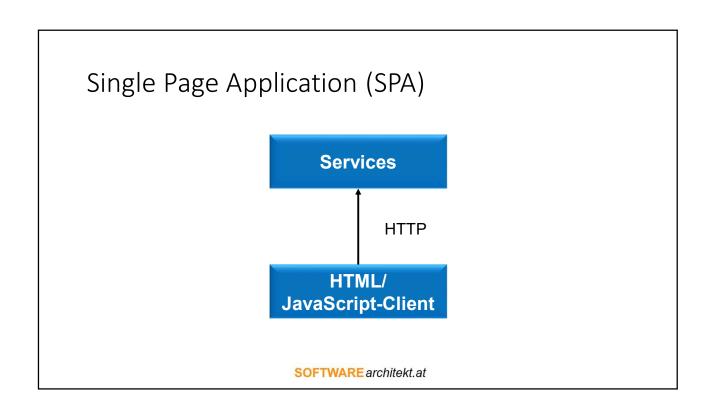








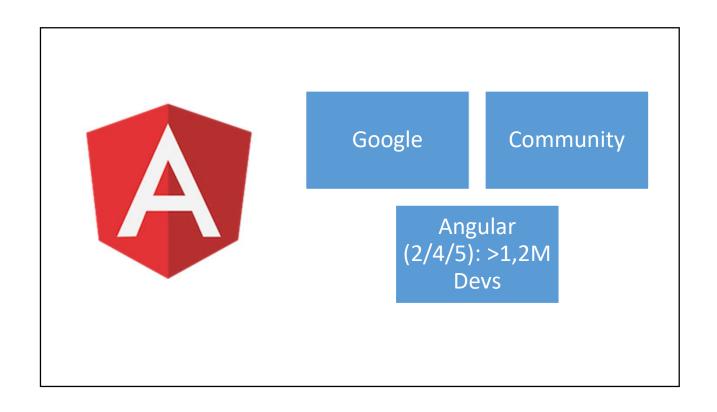
HTML + JavaScript



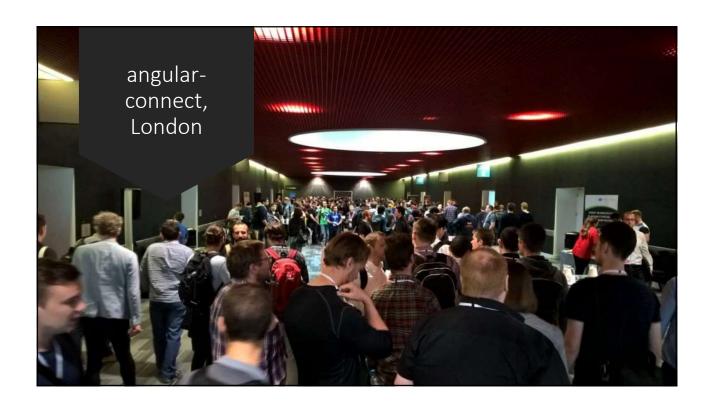


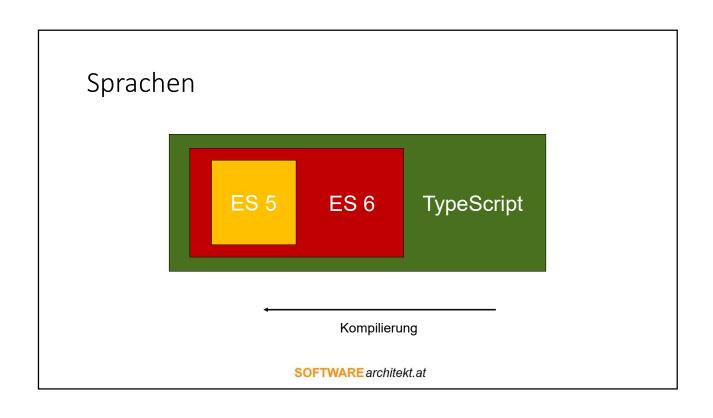


Frameworks machen SPA beherrschbar











#### **AppComponent**

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

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#### **AppComponent**

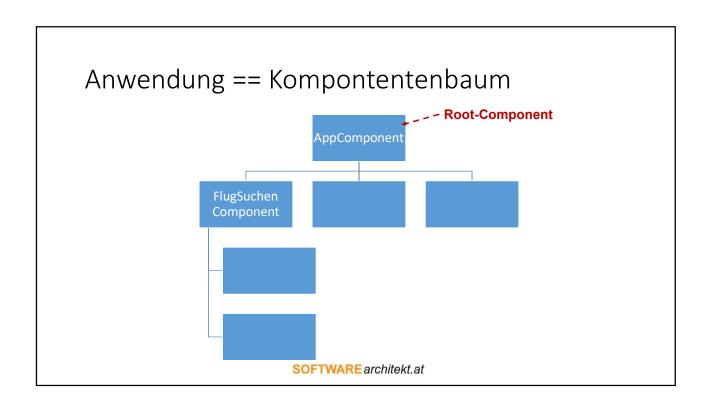
```
import { Component } from '@angular/core';

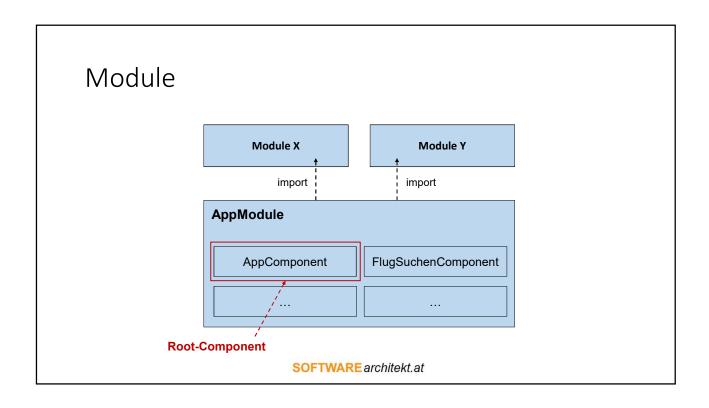
@Component({
    selector: 'flug-app',
    templateUrl: './app.component.html'
})
export class AppComponent {
    title = 'Hallo Welt!';
}

Bibliothek
Beispiel: @angular/core

Eigenes Projekt
Beispiel: ../entities/flug
Keine Endung .ts
}
```

# AppComponent import { Component } from '@angular/core'; @Component({ selector: 'flug-app', templateUrl: './app.component.html' }) export class AppComponent { title = 'Hallo Welt!'; } <h1>{{title}}</h1> <div class="container"> <flug-suchen></flug-suchen> </div>





# AppModule

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

# Bootstrapping

- Angular starten
- RootModule mit RootComponent bekannt geben

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# Bootstrapping

platformBrowserDynamic().bootstrapModule(AppModule);

# Projektstart



#### **Unser Starterkit**

- ng new starter
- cd starter
- npm i bootstrap --save
- Globale Styles in *angular.json* eintragen

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

# DEMO



#### Komponente als TypeScript-Klasse

```
@Component({
    selector: 'flug-suchen',
    templateUrl: './flug-suchen.html'
})
export class FlugSuchenComponent {

    von: string;
    nach: string;
    fluege: Array<Flug>;

    search(): void { [...] }
    select(flug: Flug): void { [...] }
}
```

```
Template
          ____ Two-Way-Binding
                            Event-Binding
<input [(ngModel)]="von">
<input [(ngModel)]="nach">
<button [disabled]="!von || !nach" (click)="search()">
</button>
              > Property-Binding
{{flug.id}}
     {{flug.datum}}
     {{flug.von}}
     {{flug.nach}}
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```

Image: Imag



# HttpClient

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

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# HttpClient

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

# HttpClient injizieren

```
@Component({
    selector: 'flug-suchen',
    templateUrl: './flug-suchen.html'
})
export class FlugSuchenComponent {

    von: string;
    nach: string;
    fluege: Array<Flug>;

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

    search(): void { [...] }
    select(flug: Flug): void { [...] }
}
```

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#### HttpClient nutzen

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

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#### HttpClient nutzen

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#### **DEMO**

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#### HttpClient nutzen

