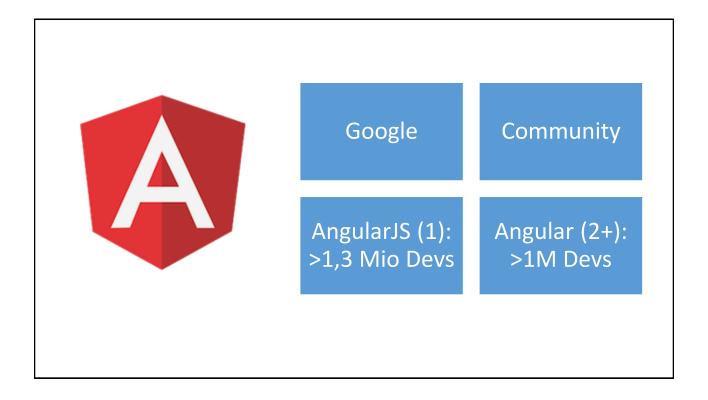


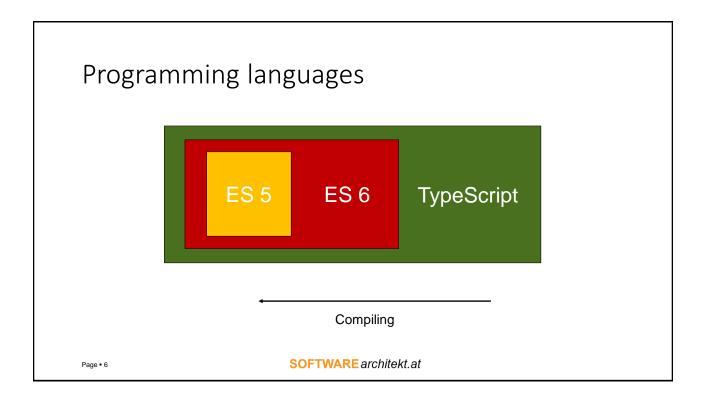
Agenda

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

Motivation

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AppComponent

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

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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
```

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AppComponent

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

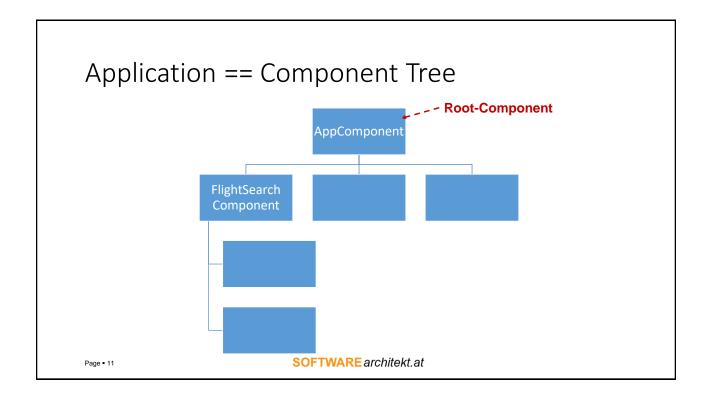
@Component({
    selector: 'flight-app',
    templateUrl: './app.component.html'
})

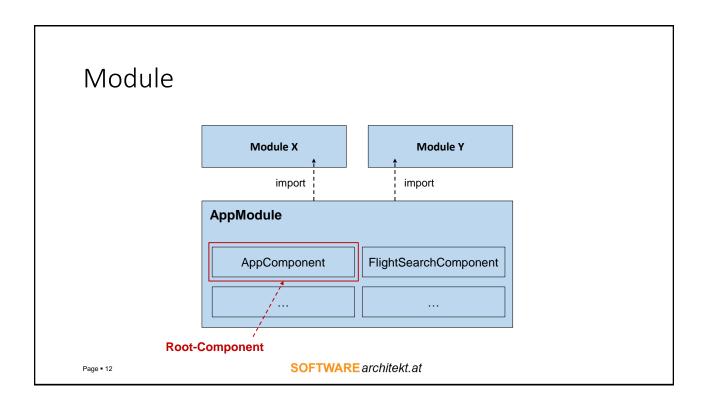
export class AppComponent {
    title = 'Hello World!';
}

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

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```





AppModule

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

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```

6

Bootstrapping

- Starting Angular
- Associate RootModule with RootComponent

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Bootstrapping

platformBrowserDynamic().bootstrapModule(AppModule);

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index.html

```
[...]
<body>
    <flight-app></flight-app>
    <script src="..."></script>
</body>
[...]
```

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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",
    [...]
],
[...]
SUF I WAKE arcnitekt.at
```

DEMO

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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 { [...] }
}
```

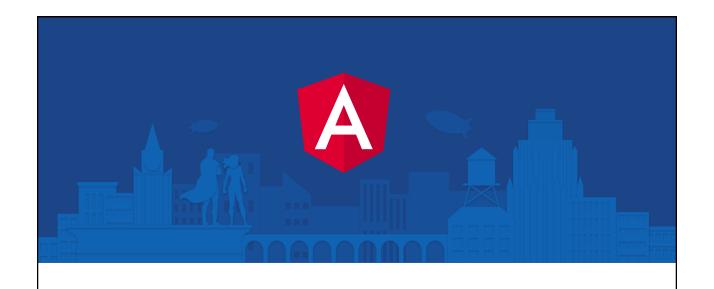
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Template

Two-Way-Binding

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Access HTTP resources

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)
- ...

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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 { [...] }
}
```

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

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Use HttpClient

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Use HttpClient

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Use HttpClient

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Use HttpClient

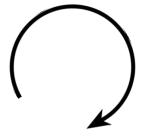
DEMO

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Use HttpClient







Observable

```
.subscribe(
	(result) => { ... },
	(error) => { ... },
	() => { ... }
```

Observer

Map operator

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

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DEMO

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