AngularJS with TypeScript

Introduction

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For Angular Developers That Want to:

Build high quality Angular applications

Improve development and refactoring activities

Smooth the transition to Angular 2

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Module Overview

What Is TypeScript?

Benefits of TypeScript?

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What Is TypeScript?

Superset of JavaScript

Compiles to plain JavaScript

Strongly typed

Class-based object-orientation

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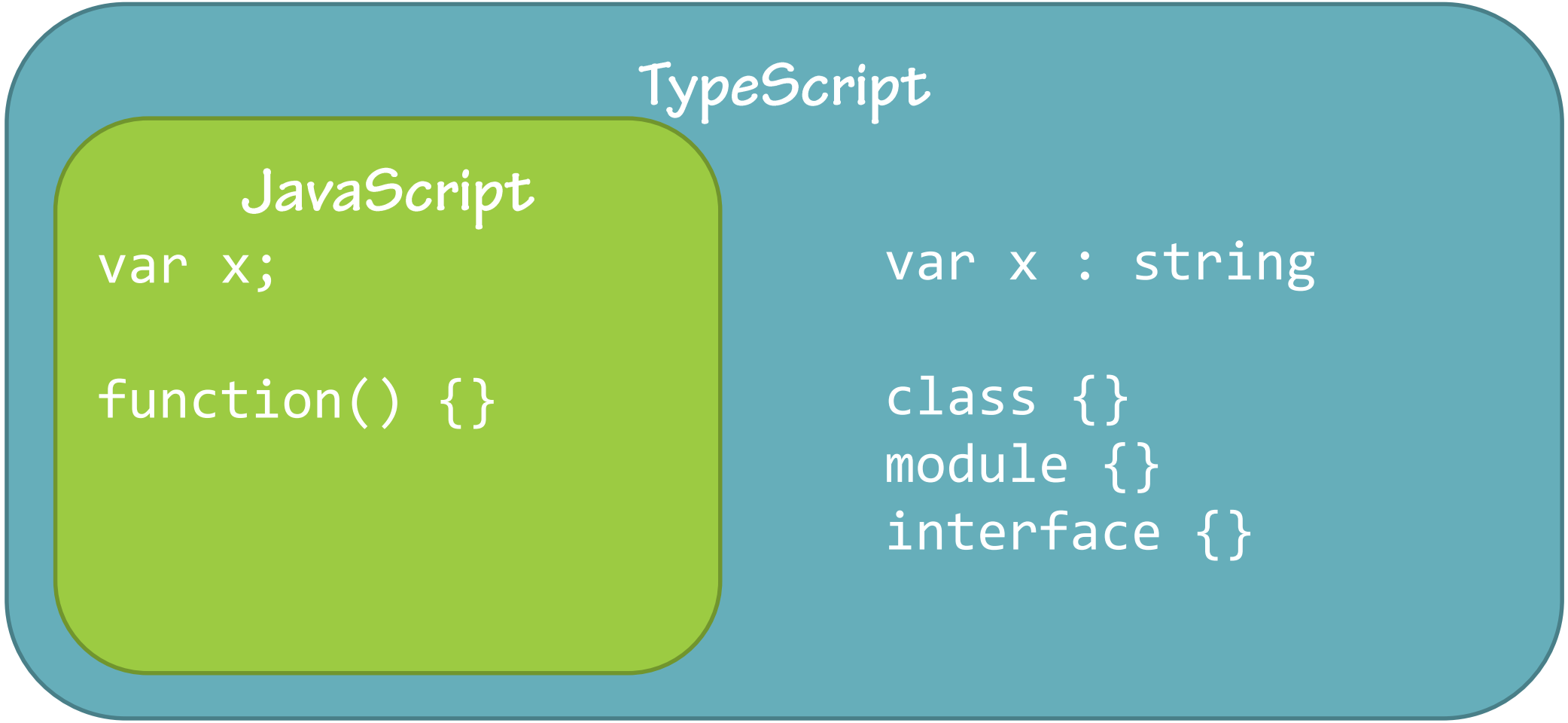
Superset of JavaScript



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TypeScript Transpiles to JavaScript

myFile.cs

myfile.dll

productListCtrl.ts

```
var x : string

class ProductListCtrl {}
```

productListCtrl.js

```
var x;

function ProductListCtrl() {}
```

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Why Bother?

Build Better Code

Refactor Code

Reason About Code

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Strong Typing

JavaScript

```
var x;

x = 42;

x = 'hello';

x = { lastName: 'Harkness',
      firstName: 'Jack' };
```

TypeScript

```
var x : number;

var x : string;

var x : {};

var x = { lastName: string,
          firstName: string };
```

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Class-Based OOP

JavaScript

```
function Product(productId) {
   this.productId = productId;
}
```

TypeScript

```
function Product(productId) {
   this.productId = productId;
}
```

OR

```
class Product {
   productId : number

   constructor(productId: number) {
      this.productId = productId;
   }
}
```

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TypeScript Is …

Superset of JavaScript

Compiles to plain JavaScript

Strongly typed

Class-based object-orientation

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Best of Both Worlds

- At development time:
  - Better type checking
  - More powerful refactoring experience
  - Class-based object-oriented programming techniques
- At deployment time:
  - It's just JavaScript

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Angular 2 is coming!

Angular 2 is coming!

Use TypeScript

TypeScript will ease the migration to Angular 2

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Prerequisites

Angular

JavaScript

HTML

CSS

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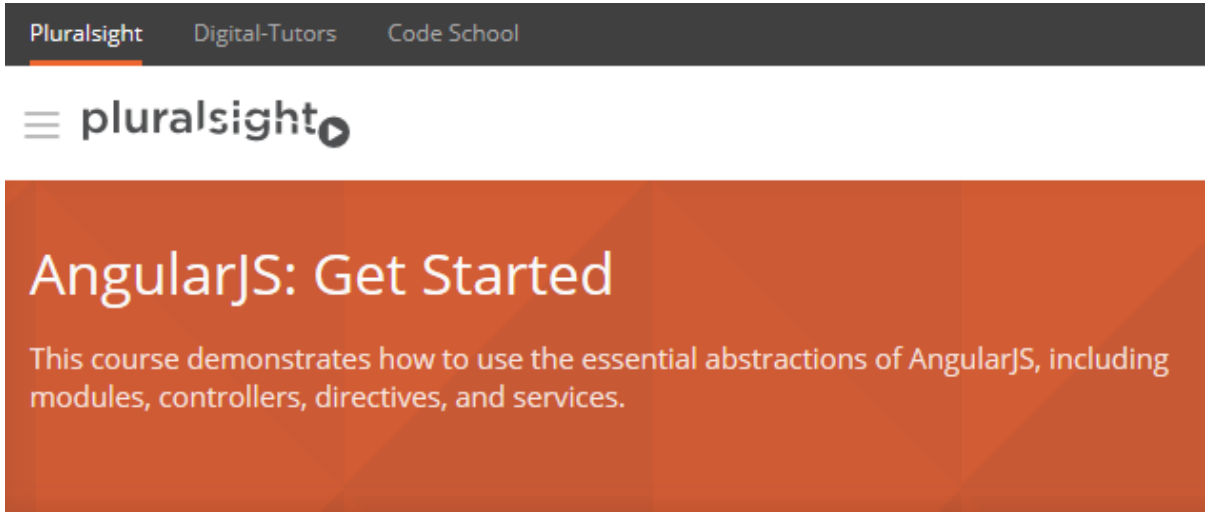
Recommended Viewing

"AngularJS: Get Started"



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Recommended Viewing

"AngularJS: Get Started"

"Shaping up with AngularJS"

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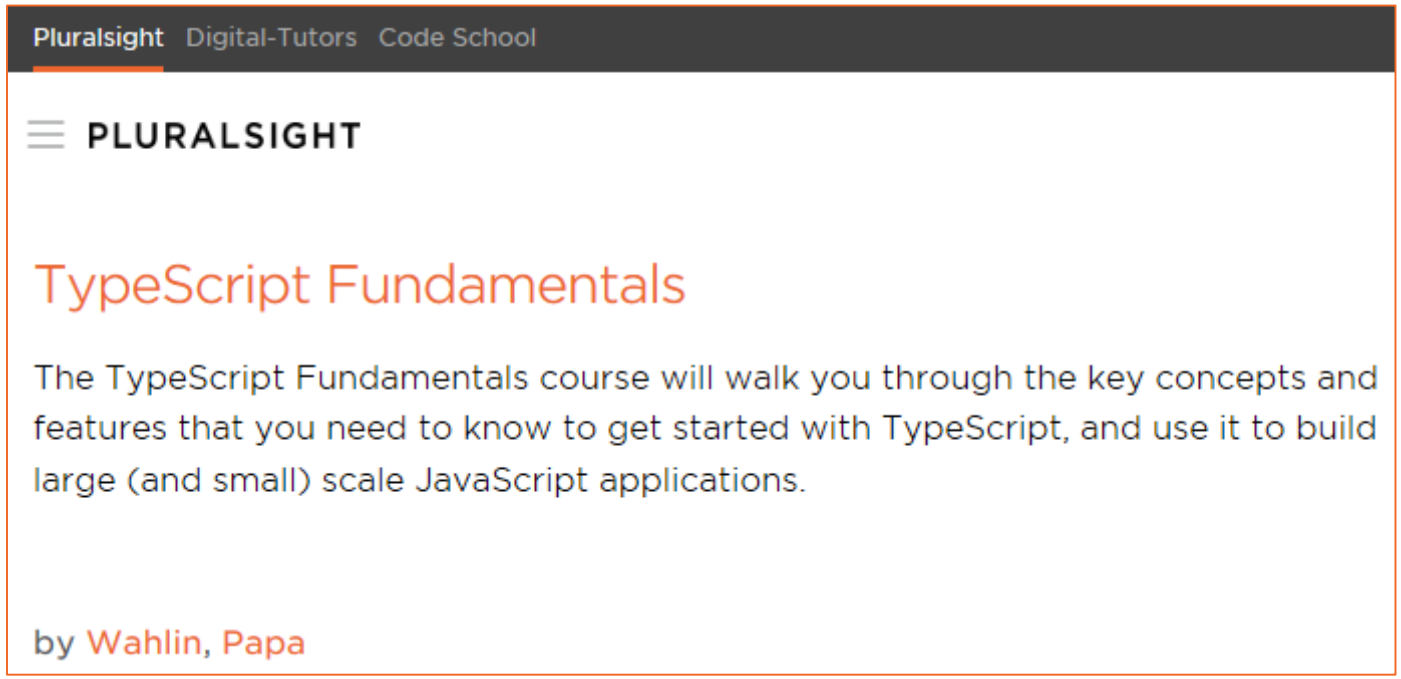
For More Information

"TypeScript Fundamentals"



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GitHub

https://github.com/DeborahK/Angular-TypeScript

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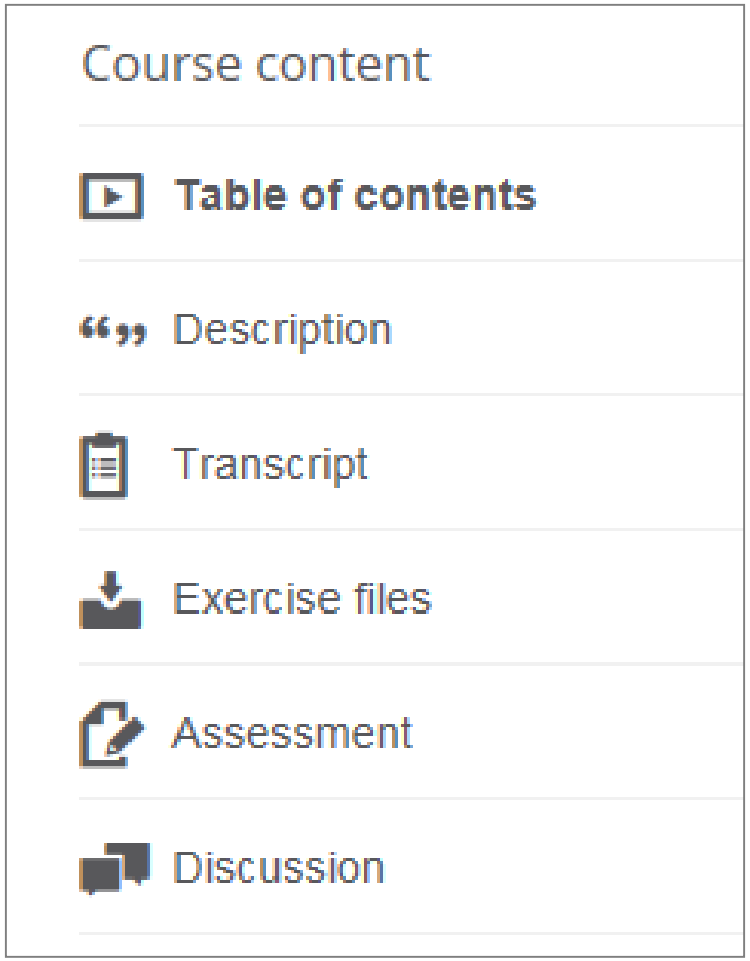
Thoughts? Comments? Questions?



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What This Course Covers

- Getting Started
- Angular Modules and Controllers
- TypeScript Modules
- Building Business Objects
- Building Angular Services
- Routing
- Final Words

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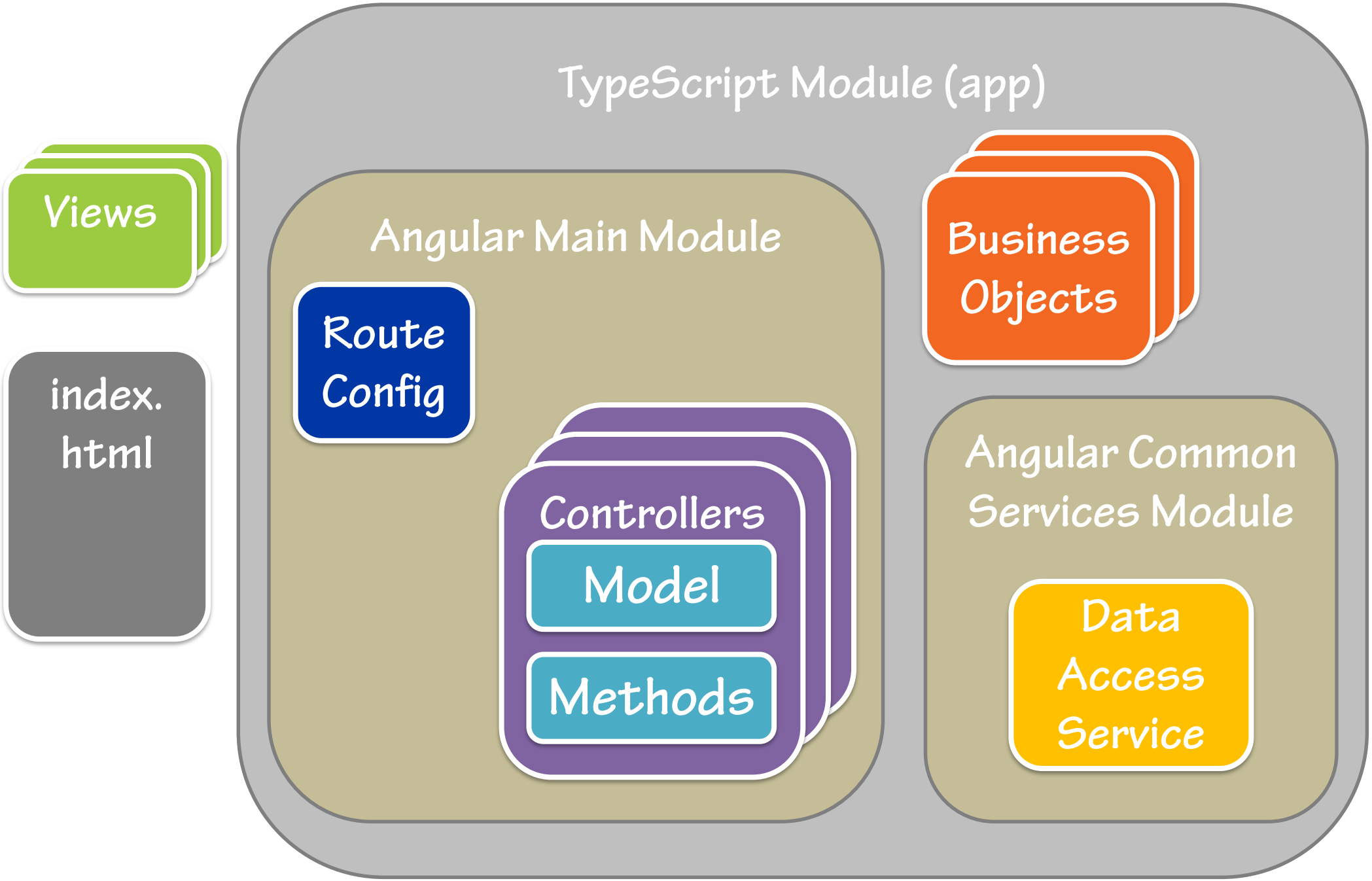

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