

Angular JS 4 (Day 1)

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Document History

Version No.	Authored/ Modified by	Remarks/ Change History	Date <dd- mon-yy >
1.0	Asfiya Khan	First version of Angular 4	13 March 2018

Course Structure

Target audience	Trainee,SE,SSE
Level	1,2,3
Pre-requisites	Javascript,TypeScript,HTML,CSS
Training methods	Presentation , Demos, Hands-on
Evaluation	Multiple Choice Question

Agenda



Architecture
and
Components



Data Binding
and Pipes



Routing and
Navigation



Templates
,Interpolation
and Directives



Angular
Modules



Services and
Dependency
Injection

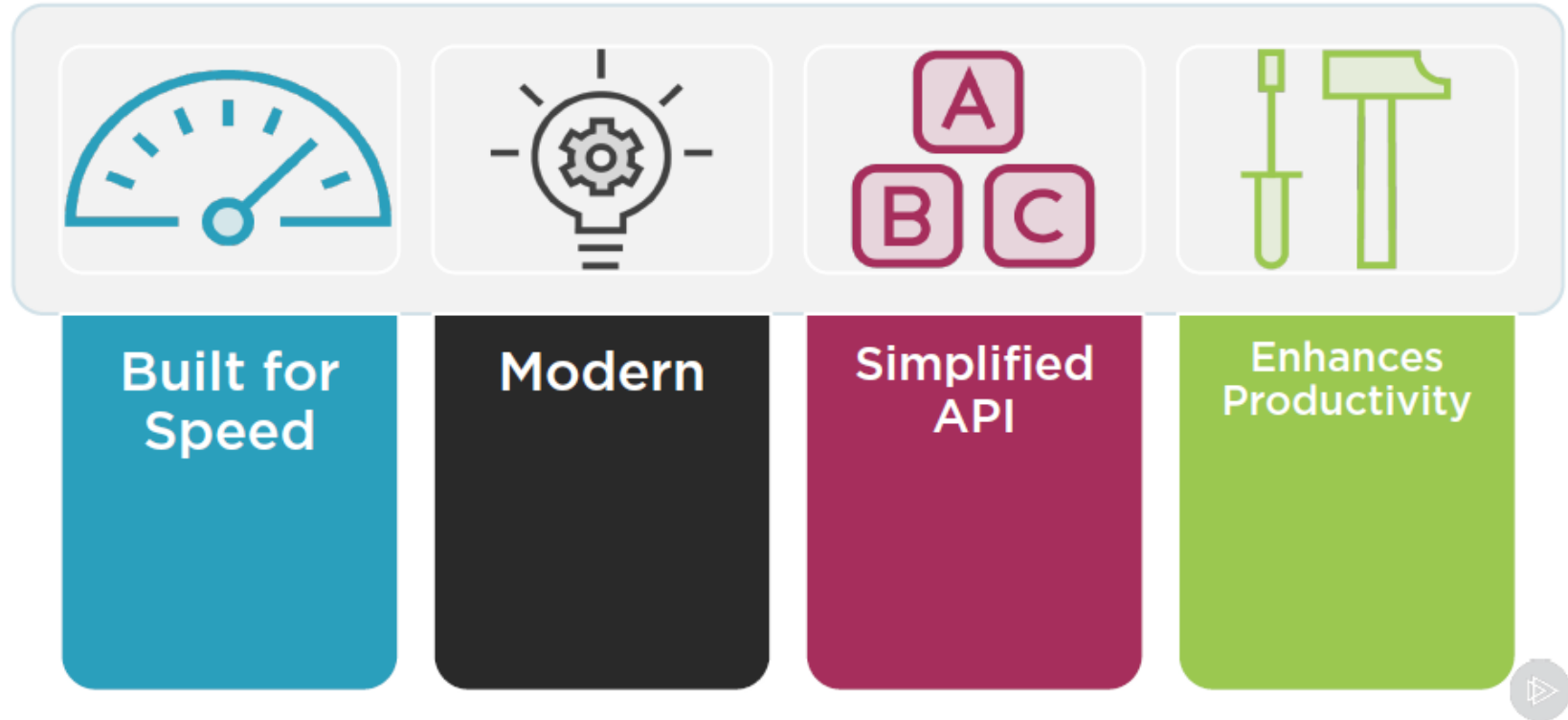


Ng-Forms

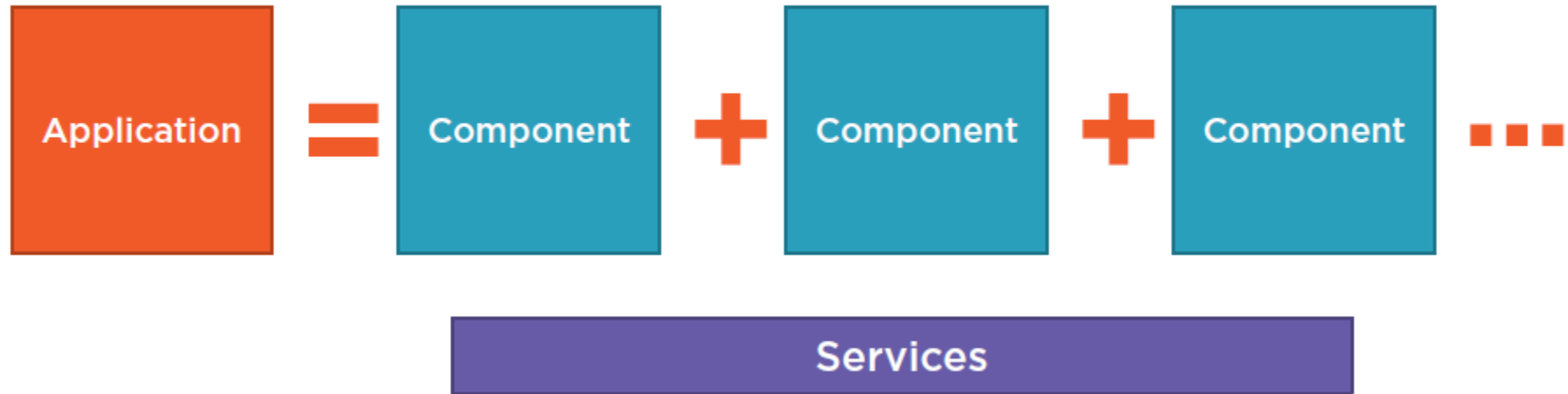


Retrieving
data using
HTTP

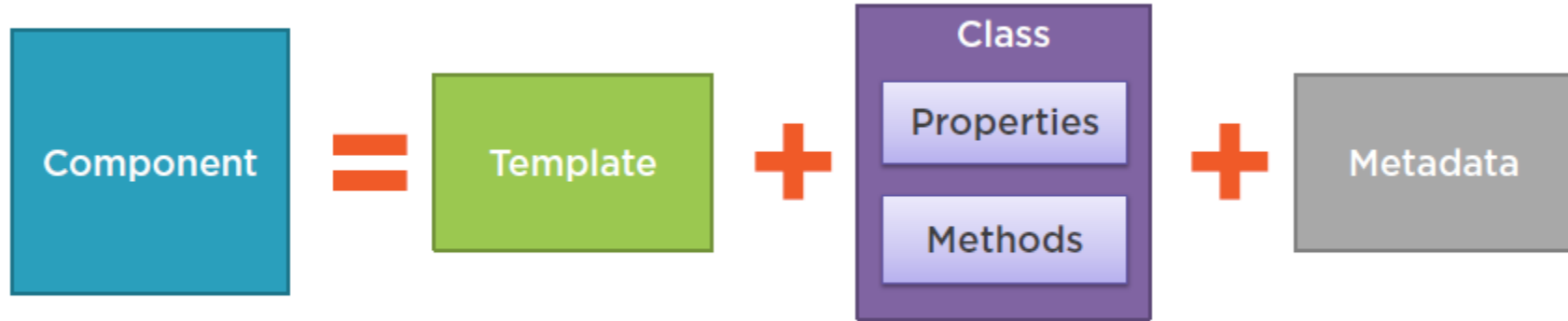
Why new Angular ?



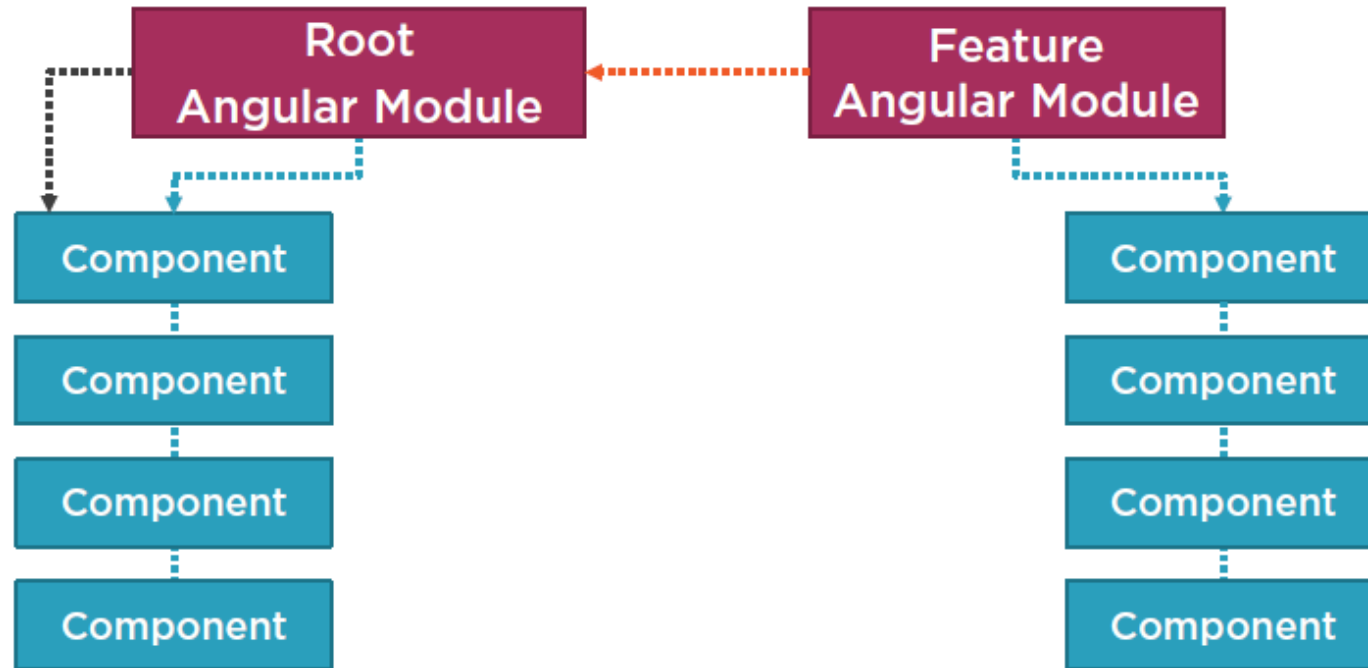
Angular Building Blocks



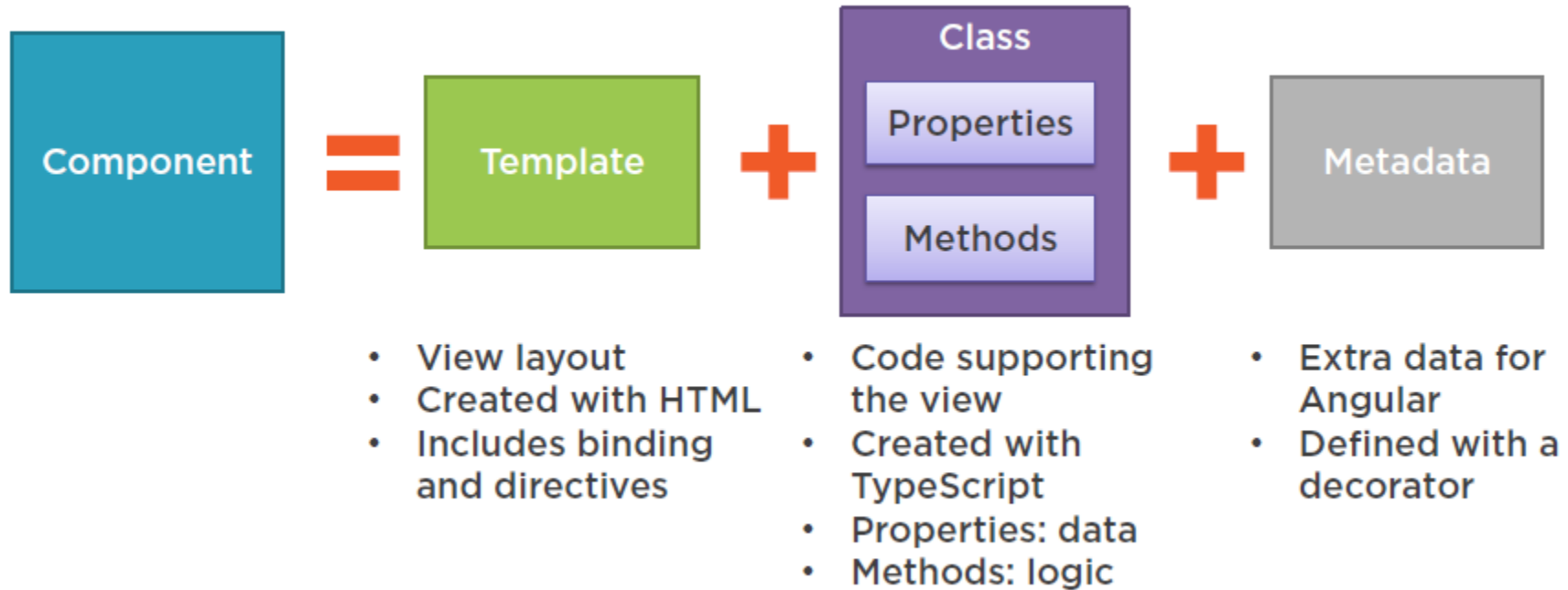
Components



Angular Modules



What is Component?



Component

app.component.ts

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

Import

```
@Component({  
  selector: 'pm-root',  
  template: `  
    <div><h1>{{pageTitle}}</h1>  
      <div>My First Component</div>  
    </div>  
  `,  
})
```

Metadata &
Template

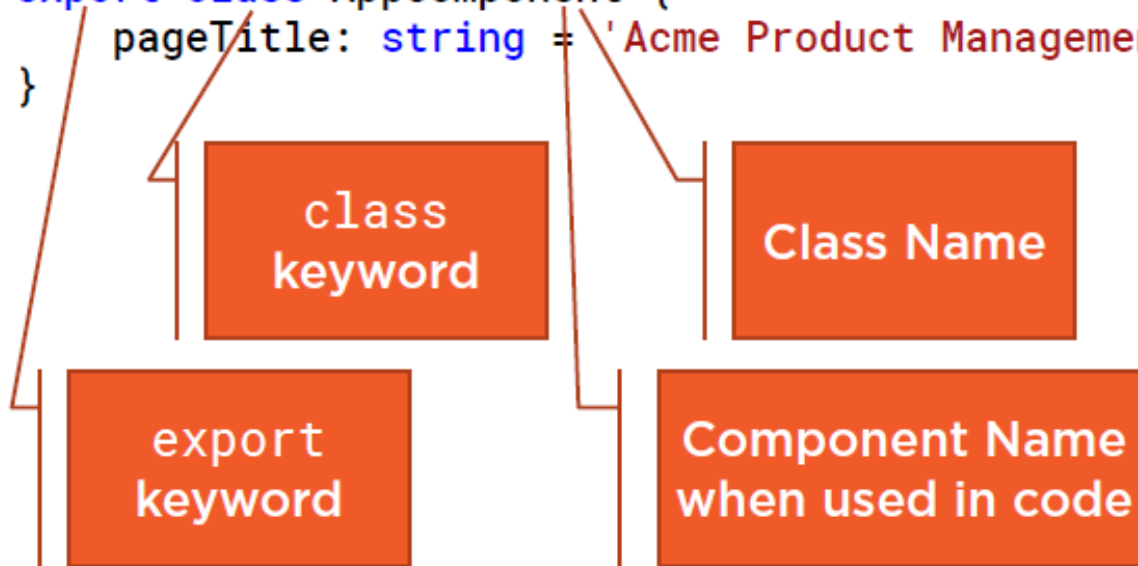
```
export class AppComponent {  
  pageTitle: string = 'Acme Product Management';  
}
```

Class

Creating the Component Class

app.component.ts

```
export class AppComponent {  
  pageTitle: string = 'Acme Product Management';  
}
```



Creating the Component Class

app.component.ts

```
export class AppComponent {  
  pageTitle: string = 'Acme Product Management';  
}
```

Property
Name

Data Type

Default
Value

Methods

Defining the Metadata

app.component.ts

```
@Component({  
  selector: 'pm-root',  
  template: `  
    <div><h1>{{pageTitle}}</h1>  
      <div>My First Component</div>  
    </div>  
  `,  
})  
export class AppComponent {  
  pageTitle: string = 'Acme Product Management';  
}
```

Decorator

A function that adds **metadata** to a class, its members, or its method arguments.

Prefixed with an @.

Angular provides built-in decorators.

@Component()

Defining the Metadata

app.component.ts

```
@Component({  
  selector: 'pm-root',  
  template: `

<h1>{{pageTitle}}</h1>  
    <div>My First Component</div>  
  </div>`  
})  
export class AppComponent {  
  pageTitle: string = 'Acme Product Management';  
}


```

Component
decorator

Directive Name
used in HTML

View Layout

Binding

Angular Is Modular

@angular/
core

@angular/
animate

@angular/
http

@angular/
router

<https://www.npmjs.com/~angular>

Importing What We Need

app.component.ts

```
@Component({  
  selector: 'pm-root',  
  template: `  
    <div><h1>{{pageTitle}}</h1>  
      <div>My First Component</div>  
    </div>  
  `,  
})  
export class AppComponent {  
  pageTitle: string = 'Acme Product Management';  
}
```

Importing What We Need

app.component.ts

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

import keyword

```
@Component({  
  selector: 'pm-root',  
  template: `  
    <div><h1>{{pageTitle}}</h1>  
      <div>My First Component</div>  
    </div>  
  `
```

Angular library
module name

Member name

```
  })  
  export class AppComponent {  
    pageTitle: string = 'Acme Product Management';  
  }
```

Completed Component

app.component.ts

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

@Component({
  selector: 'pm-root',
  template: `
    <div><h1>{{pageTitle}}</h1>
      <div>My First Component</div>
    </div>
  `
})
export class AppComponent {
  pageTitle: string = 'Acme Product Management';
}
```

Hosting the Application

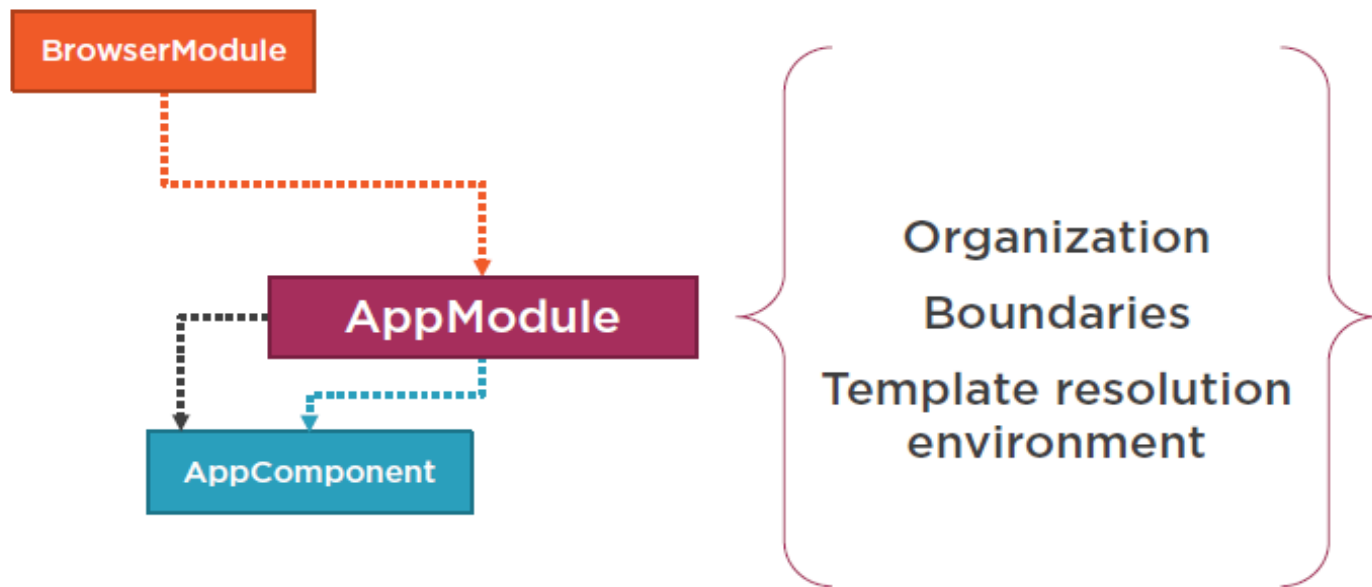
index.html

```
<body>
  <pm-root></pm-root>
</body>
```

app.component.ts

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

@Component({
  selector: 'pm-root',
  template: `
    <div><h1>{{pageTitle}}</h1>
      <div>My First Component</div>
    </div>
  `
})
export class AppComponent {
  pageTitle: string = 'Acme Product Management';
}
```



- Imports
- Exports
- Declarations
- Providers
- Bootstrap



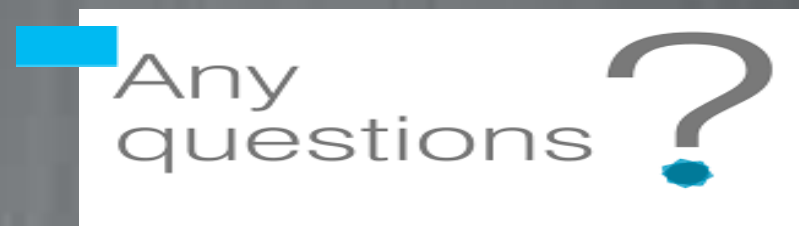
Defining the Angular Module

app.module.ts

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { AppComponent } from './app.component';

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

DEMO



Thank You!