

Angular : 1 - 001 Components

Angular App is Composition of multiple Components

Notes:

- We should be using term “**Modules**” but “**Components**” are the end-level parts of an Angular App.
- Components are used by Modules which then together make an Angular App.

Code View :

```
1 import { Component } from '@angular/core';
2
3 @Component({
4   selector: 'app-root',
5   templateUrl: './app.component.html',
6   styleUrls: ['./app.component.css']
7 })
8 export class AppComponent {
9   title = 'Basic Angular Learning';
10 }
```

Directive : Component

Package : @angular/core

Properties :

- selector (selector-tag-name as String) (must be unique)
- templateUrl / template (File-path String / String)
- styleUrls / styles (Array of File-path Strings / Array of Strings)

Code :

- All logic is defined in a ES6 class definition.
- Properties
- Constructor
- Methods

Usage :

Use following code style in the enclosing (parent) component of this component.

1. Element / Tag Selector

Definition : {
 selector: "abc-component"
}

Usage : <abc-component></abc-component>

2. Attribute Selector

Definition : {
 selector: "[abc-component]"
}

Usage : <div abc-component></div>

3. Class Selector

Definition : {
 selector: ".abc-component"
}

Usage : <div class="abc-component"></div>

More Info :

- Every component has a template and a selector.
- Selector must be unique.
- Template can be external html file or an inline string.
- A component needs to be included in "declarations" property of the Module which uses that component.
- Multiple Components are used to build a complete UI of a Page or multiple pages.
- Nested components are possible in Angular.
- Component can be used multiple times across the app. Allowing reusability of code and reducing code repetition.