

Metadata Classes

- Angular uses Metadata to decorate classes, methods and properties.
- The most notable Metadata is the `@component` Metadata.
- Metadata classes are very convenient and they make it easy to work with components, services and the dependency injection system

Below is a list of Angular's core Metadata classes categorized under directives/components, pipes and di.

Directive/component Meta-data

- **Component**: used to define a component
 - **View**: used to define the template for a component
 - **ViewChild**: used to configure a view query
 - **ViewChildren**: used to configure a view query
- **Directive**: used to define a directive
 - **Attribute** used to grab the value of an attribute on an element hosting a directive
 - **ContentChild**: used to configure a content query
 - **ContentChildren**: used to configure a content query
 - **Input**: used to define the input to a directive/component
 - **Output**: used to define the output events of a directive/component
 - **HostBinding**: used to declare a host property binding
 - **HostListener**: used to declare a host listener

Pipes

- **Pipe**: used to declare reusable pipe function

DI

- **Inject**: parameter metadata that specifies a dependency.

- **Injectable**: a marker metadata that marks a class as available to Injector for creation.
- **Host**: Specifies that an injector should retrieve a dependency from any injector until reaching the closest host.
- **Optional**: parameter metadata that marks a dependency as optional
- **Self**: Specifies that an Injector should retrieve a dependency only from itself.
- **SkipSelf**: Specifies that the dependency resolution should start from the parent injector.
- **Query**: Declares an injectable parameter to be a live list of directives or variable bindings from the content children of a directive.
- **ViewQuery**: Similar to `QueryMetadata` , but querying the component view, instead of the content children.

TODO