

View Queries



*@ViewChild, @ViewChildren,
@ContentChild, and @ContentChildren
can be used to get element references*



@ViewChild

- Used to get element reference from the View.
- Reference can be obtained via Component Type or by Template Variable Name.
- Gives Component Instance if used with a Component.
- Gives an instance of type `ElementRef` if used on an HTML Element.
- Generally accessed in `ngAfterViewInit`.
- Accepts an optional second argument to read a different token from the queried element.
- [Sample Stackblitz](#) for reference.
- Read more about [@ViewChild](#) here.



@ViewChildren

- Almost similar to @ViewChild, just for multiple references.
- Everything applicable to @ViewChild is applicable here as well.
- The type of variables declared with @ViewChildren is `QueryList<ComponentType>`
- [Sample Stackblitz](#) for reference.
- Read more about @ViewChildren [here](#).



@ContentChild

- Used to get element reference from the Projected Content.
- Reference can be obtained via Component Type or by Template Variable Name.
- Reference generally is obtained in the Component in which the content is projected.
- Accepts an optional second argument to read a different token from the queried element.
- Gives Component Instance if used with a Component.
- Gives an instance of type `ElementRef` if used on an HTML Element.
- Generally accessed in `ngAfterContentInit`.
- [Sample Stackblitz](#) for reference.
- Read more about [@ContentChild](#) here.



@ContentChildren

- ◉ Almost similar to `@ContentChild`, just for multiple references.
- ◉ Everything applicable to `@ContentChild` is applicable here as well.
- ◉ The type of variables declared with `@ContentChildren` is `QueryList<ComponentType>`
- ◉ `Sample Stackblitz` for reference.
- ◉ Read more about `@ContentChildren` [here](#).



A way to share Data

- Since a Component can have access to a Child Component's instance, data can be shared via it.
- An `example Sample StackBlitz` for reference.



Angular's Change Detection Mechanism

Next Video



Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
- Photographs by Unsplash