

Access multiple viewchildren using @ViewChild [duplicate]

Asked 2 years, 10 months ago Active 12 days ago Viewed 62k times



90

This question already has an answer here:

[How can I select an element in a component template?](#) 10 answers



I have created a custom component which i have placed in a for loop e.g



25

```
<div *ngFor="let view of views">
  <customcomponent></customcomponent>
</div>
```

The output of which will be:

```
<customcomponent></customcomponent>
<customcomponent></customcomponent>
<customcomponent></customcomponent>
```

I would like to know how i can get a reference to these components using @ViewChild syntax or any other means when the number of these components can vary

when the component can be given a name e.g

```
<customcomponent #compID></customcomponent>
```

I can then reference it as follows:

```
@ViewChild('compID') test: CustomComponent
```

How do i reference it when this is not the case or using an index possibly?

By using our site, you acknowledge that you have read and understand our Cookie Policy, Privacy Policy, and our Terms of Service.

(This question does not relate to using ElementRef as per other questions that have been previously asked as can be seen by the answers listed below) This question relates to the accessing multiple @ViewChild and using list queries.



edited Apr 3 '18 at 14:10



Vega

16.5k

13

47

69

asked Oct 20 '16 at 22:06



Piotr Stulinski

5,265

7

26

45

marked as duplicate by [Günter Zöchbauer](#) angular2 Oct 21 '16 at 5:09

This question has been asked before and already has an answer. If those answers do not fully address your question, please [ask a new question](#).

2 Answers



Use @ViewChildren from @angular/core to get a reference to the components

158

template

```
<div *ngFor="let v of views">
  <customcomponent #cmp></customcomponent>
</div>
```

**component**

```
import { ViewChildren, QueryList } from '@angular/core';

/** Get handle on cmp tags in the template */
@ViewChildren('cmp') components:QueryList<CustomComponent>;

ngAfterViewInit(){
  // print array of CustomComponent objects
```

By using our site, you acknowledge that you have read and understand our [Cookie Policy](#), [Privacy Policy](#), and our [Terms of Service](#).

[live demo](#)

edited Aug 28 at 15:33

answered Oct 20 '16 at 22:39

[BeetleJuice](#)**23.2k** 13 55 114

-
- 3 it says `._results` is a private function. Also this. components is just a singular component not a list for me. Any more help you could provide? – [Sam Alexander](#) Mar 2 '17 at 14:58
-
- 18 @SamAlexander you can use `this.components.toArray()` to get the array of components with the `#cmp` name – [DavidGSola](#) May 9 '17 at 12:38
-
- 1 How it works on Ajax response?, `@ViewChildren` is triggered after init View, but not after model (for `ngFor`) changes. How Can I trigger for that? – [elporfirio](#) Oct 24 '17 at 16:02
-
- @elporfirio implemet `AfterViewChecked` and write the method `ngAfterViewChecked`. This method is triggered each change cycle after the view has been updated. Within it, you can test whether your `ViewChild` instance has been defined. [See the docs](#) – [BeetleJuice](#) Oct 24 '17 at 16:40
-
- 1 Never mind, I found this which explains things in more detail: [netbasal.com/...](#) Using the name of the component in `@ViewChildren` gives a different return result than using the `#name` you assigned in HTML. – [rmcsharry](#) Oct 26 '17 at 21:30
-

▲ Use the `@ViewChildren` decorator combined with `QueryList`. Both of these are from "`@angular/core`"

60

```
@ViewChildren(CustomComponent) customComponentChildren: QueryList<CustomComponent>;
```

▼ Doing something with each child looks like: `this.customComponentChildren.forEach((child) => { child.stuff = 'y' })`

There is further documentation to be had at [angular.io](https://angular.io/docs/ts/latest/cookbook/component-communication.html#!#sts=Parent%20calls%20a%20ViewChild), specifically: <https://angular.io/docs/ts/latest/cookbook/component-communication.html#!#sts=Parent%20calls%20a%20ViewChild>

answered Oct 20 '16 at 22:20

[silentsod](#)**6,311** 30 37

By using our site, you acknowledge that you have read and understand our [Cookie Policy](#), [Privacy Policy](#), and our [Terms of Service](#).