

# How and where to use ::ng-deep?

Asked 1 year, 11 months ago   Active today   Viewed 47k times



35



10

I'm new to Angular 4, so could anyone please explain how and where to use `::ng-deep` in Angular 4?

Actually I want to overwrite some of the CSS properties of the child components from the parent components. Moreover is it supported on IE11?

css



angular

angular-template

edited May 9 at 9:26



Kamil Naja

2,479 3 14 27

asked Oct 17 '17 at 9:34



Jeyabalan Thavamani

461 2 9 21

Since `/deep/` and `::ng-deep` are both deprecated, I suggest you to take a look to this answer [stackoverflow.com/a/49308475/2275011](https://stackoverflow.com/a/49308475/2275011) and comments for more details and solutions. – Ferie May 21 at 10:32

## 5 Answers



45



Usually `/deep/` “shadow-piercing” combinator can be used to force a style down to `child components`. This selector had an alias `>>>` and now has another one called `::ng-deep`.

since `/deep/` combinator has been deprecated, it is recommended to use `::ng-deep`

**For example:**

```
<div class="overview tab-pane" id="overview" role="tabpanel" [innerHTML]="project?.getContent( 'DETAILS' )"></div>
```

and `css`

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

```

    &:last-child {
      margin-bottom: 0;
    }
  }
}

```

it will be applied to child components

answered Oct 17 '17 at 9:42



[Sajeetharan](#)

141k 34 212 269

Is it support for IE11? – [Jeyabalan Thavamani](#) Oct 17 '17 at 9:48

1 I tried it on IE11 and is working – [Umpa](#) Apr 26 '18 at 8:11

2 Angular does the parsing of it - so you don't need to worry about compatibility. – [Simon\\_Weaver](#) Jun 14 '18 at 4:36

## USAGE

34

`::ng-deep`, `>>>` and `/deep/` disable view encapsulation for specific CSS rules, in other words, it gives you access to DOM elements, which are not in your component's HTML. For example, if you're using Angular Material (or any other third-party library like this), some generated elements are outside of your component's area (such as [dialog](#)) and you can't access those elements directly or using a regular CSS way. If you want to change the styles of those elements, you can use one of those three things, for example:

```

::ng-deep .mat-dialog {
  /* styles here */
}

```

For now Angular team recommends making *"deep"* manipulations only with **EMULATED** view encapsulation.

## DEPRECATION

*"deep"* manipulations are actually [deprecated](#) too, **BUT** it stills working for now, because Angular does pre-processing support (don't

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

Anyway, before following this way, I recommend you to take a look at *disabling view encapsulation* approach (which is not ideal too, it allows your styles to leak into other components), but in some cases, it's a better way. If you decided to disable view encapsulation, it's strongly recommended to use specific classes to avoid CSS rules intersection, and finally, avoid a mess in your stylesheets. It's really easy to disable right in the component's `.ts` file:

```
@Component({
  selector: '',
  template: '',
  styles: [],
  encapsulation: ViewEncapsulation.None // Use to disable CSS Encapsulation for this
  component
})
```

You can find more info about the view encapsulation in [this](#) article.

edited 18 hours ago

answered Oct 17 '17 at 9:43



**Commercial Suicide**

**10.7k** 11 35 58

2 Disabling view encapsulation applies all CSS in your component globally. – [Vedran](#) Mar 25 at 16:04

5 Don't use `ViewEncapsulation.None` ! It will make a lot of damage by making those styles possible to leak into other components. – [Alex Klaus](#) May 4 at 12:12

@AlexKlaus, agree, that's why I mentioned in the answer, that it's not ideal. Actually, I used it just one time to apply shared repeatable styles to Angular Material components. If you try to disable encapsulation, you possibly will get a mess at some point. It's good to know about this option, but don't use it while you're not absolutely sure you need this. – [Commercial Suicide](#) May 4 at 14:58

13 Make sure not to miss the explanation of `:host-context` which is directly above `::ng-deep` in the angular guide : <https://angular.io/guide/component-styles>. Disclaimer: I missed it up until now and wish I'd seen it sooner.

`::ng-deep` is often necessary when you didn't write the component and don't have access to its source, but `:host-context` can be a very useful option when you do.

For example I have a black `<h1>` header inside a component I designed, and I want the ability to change it to white when it's displayed on a dark themed background.

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

```
.theme-dark widget-box ::ng-deep h1 { color: white; }
```

But instead with `:host-context` you can do this *inside* the component.

```
h1
{
  color: black;          // default color

  :host-context(.theme-dark) &
  {
    color: white;       // color for dark-theme
  }

  // OR set an attribute 'outside' with [attr.theme]='dark'

  :host-context([theme='dark']) &
  {
    color: white;       // color for dark-theme
  }
}
```

This will look anywhere in the component chain for `.theme-dark` and apply the css to the `h1` if found. This is a good alternative to relying too much on `::ng-deep` which while often necessary is somewhat of an anti-pattern.

In this case the `&` is replaced by the `h1` (that's how sass/scss works) so you can define your 'normal' and themed/alternative css right next to each other which is very handy.

Be careful to get the correct number of `:`. For `::ng-deep` there are two and for `:host-context` only one.

edited Sep 10 '18 at 20:40

answered Jun 14 '18 at 5:08



[Simon\\_Weaver](#)

**79.8k**

65

493

551

---

You can also use `:host(.theme-dark)` if you don't want to inherit `theme-dark` from any parent components. This will entirely depend on your site css design. Also attributes can be very useful and can be combined in sophisticated ways in css alone  
`:host([theme='dark']:not([dayofweek='tuesday']))` – [Simon\\_Weaver](#) Aug 7 '18 at 23:22

---

Also note that this follows normal css rules, so if you have a component as described above (with `host-context` css) inside a container which has a `.theme-light` class this is in turn nested inside a container with `.theme-dark` it will still pick up the `theme-dark` and apply the css. But this is a great

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

3

I would emphasize the importance of limiting the `::ng-deep` to only children of a component by requiring the parent to be an encapsulated css class.

For this to work it's important to use the `::ng-deep` after the parent, not before otherwise it would apply to all the classes with the same name the moment the component is loaded.

Component css:

```
.my-component ::ng-deep .mat-checkbox-layout {  
  background-color: aqua;  
}
```

Component template:

```
<h1 class="my-component">  
  <mat-checkbox ....></mat-checkbox>  
</h1>
```

Resulting css:

```
.my-component[_ngcontent-c1] .mat-checkbox-layout {  
  background-color: aqua;  
}
```

edited Mar 26 at 12:30

answered Mar 26 at 11:56



Vedran

6,464

3

35

52

Just an update:

1

You should use `::ng-deep` instead of `/deep/` which seems to be deprecated.

Per documentation:

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

The shadow-piercing descendant combinator is deprecated and support is being removed from major browsers and tools. As such we plan to drop support in Angular (for all 3 of /deep/, >>> and ::ng-deep). Until then ::ng-deep should be preferred for a broader compatibility with the tools.

You can find it [here](#)

edited Sep 21 '18 at 18:36



Dmitriy

5,121 11 20 35

answered Sep 21 '18 at 18:18



Balázs Takács

673 3 16

5 In this text it clearly says ::ng-deep is also deprecated: "we plan to drop support in Angular (for all 3 of /deep/, >>> and ::ng-deep)". – [adripanico](#) Dec 13 '18 at 8:40

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