What is the difference between [ngFor] and [ngForOf] in angular2?



As per my understanding, Both are doing the same functions. But,

ngFor would be works like as collections?

ngForOf would be works like as generics?





Is my understanding is correct? or Could you please share more difference's (details) about ngFor and ngForOf?



🔼 angular typescript ngfor

edited Jul 19 '17 at 9:30

asked Apr 13 '17 at 9:47



- Good question! i also wanted to ask! btw, your links for both collections and generics are same Sajeetharan Apr 13 '17 at 9:58
 - @Sajeetharan Typo issue. Sorry for that. Now I have updated my question. thanks Ramesh Rajendran Apr 13 '17 at 10:03
- github.com/angular/angular/commit/... yurzui Apr 13 '17 at 10:12

@yurzui, good catch. So it seems as though the class was previously NgFor and it got changed in the move to angular v4, and the key thing is that we as a community were none the wiser. Awesome backwards compatibility - snorkpete Apr 13 '17 at 10:18

5 Answers



ngFor and ngForOf are not two distinct things - they are actually the selectors of the NgForOf directive.

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If you examine the source, you'll see that the NgForOf directive has as its selector: [ngFor][ngForOf], meaning that both attributes need to be present on an element for the directive to 'activate' so to speak.



+100

So,

```
<div *ngFor="let item of items"></div>
```

desugars to:

This first de-sugaring is due to the '*'. The next de-sugaring is because of the micro syntax: "let item of items". The Angular compiler desugars that to:

(where you can think of \$implicit as an internal variable that the directive uses to refer to the current item in the iteration).

In its canonical form, the ngFor attribute is just a marker, while the ngForOf attribute is actually an input to the directive that points to the the list of things you want to iterate over.

You can check out the Angular microsyntax guide to learn more.

edited Jul 19 '17 at 10:04



- 1 Isn't ngFor the actual directive whereas ngForOf is "just" a property of the "de-sugared" version? devnull69 Apr 13 '17 at 10:05
 - well, technically, ngForOf is the name of the class that implements the directive (again, see the source). It's just that no one actually refers to it by that name ngFor is basically how its referred to in all documentation and conversations. snorkpete Apr 13 '17 at 10:08
- Your desugaring examples are both quite wrong. I don't think there are 2 steps, and the end result would be <template ngFor let-item="\$implicit" [ngForOf]="items"> </template> Günter Zöchbauer Jul 19 '17 at 9:36
- 1 @GünterZöchbauer, you are right i put the directives in the wrong place i updated the code examples. And you're probably also right that the desugaring of the structural directive from the desugaring of the let



In my opinion what I got from the angular document,



- [ngFor] is not type safe
- [NgForOf] is type safe

Because both class details are little different

- ngFor Class type is any type
- But ngForOf class detail is ngForOf : NgIterable<T>

ngForOf looks like generics which I have already mentioned in my question.



answered Apr 13 '17 at 10:24



Interesting. However, since they are used from within templates, this matters less in practice than it otherwise would. That said, the number of Angular APIs, including ones not intended for template use such as FormBuilder, which are not type checked is troubling. – Aluan Haddad Apr 24 '17 at 0:12



NgFor can iterate an array but in ngContainer, ngContent we cannot iterate ngFor directly so For iterating we can use [ngForOf] . Here i is variable, ratings is an array.



Ex.



At this example, I want to apply a ngFor and ngIf simultaneously, so i used it.

The other view is that at a normal if we apply ngFor then at rendering it converts it into

edited Feb 16 '18 at 7:09

answered Feb 15 '18 at 7:30





Explicit version

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• (<template ngFor ...>) allows to apply the directive to multiple elements at once



Implicit version

· only wraps the element where it is applied

answered Apr 26 '17 at 0:21 user7427848



ngFor is a structural directive of Angular which replaces the ng-repeat attribute of AngularJS

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You can use ngFor as a shorthand



{{item.name}}

or as the longhand version

```
<template ngFor <pre>let-item="$implicit" [ngForOf]="items">
     {{item.name}}
</template>
```

answered Anr 13 '17 at 10:06

shorthand and longhand means no of data size? or what? - Ramesh Rajendran Apr 13 '17 at 10:08

It means: Difference of usage for the same purpose and effect – devnull69 Apr 13 '17 at 10:09

Okay now I understand it. But whenever am seeing this line in the document ngForOf: NgIterable<T>: The value of the iterable expression. Useful when the expression is more complex then a property access, for example when using the async pipe (userStreams | async). really not understandable. — Ramesh Rajendran Apr 13 '17 at 10:12

3 Let's say your items collection is not a simple collection but rather a collection which is not yet available and will only be available after some asynchronous call. So you won't have items yet but only an Observable or Promise (let's call it futureItems). In that case you'd like to use the async pipe let item of (futureItems|async) which is not possible. But you can use the longhand version with [ngForOf]="futureItems | async" – devnull69 Apr 13 '17 at 10:29

protected by Ramesh Rajendran Apr 2 '18 at 8:37

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