Angular 2 Component Constructor Vs OnInit [duplicate]

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This question already has an answer here:
[Difference between Constructor and ngOnInit](#) *22 answers*

▼

If I want function x to happen every time a component loads, whether its the first time, I navigate to a different site and navigate back or it's the fifth time the component has loaded.

★

What should I put function x in? The component constructor or OnInit?

17

Ⓐ angular   constructor   ngoninit

edited Jul 17 '18 at 13:11   asked Mar 7 '16 at 13:53

Sujatha Girijala   ClickThisNick

588   4   18   **2,144**   8   26   51

marked as duplicate by Günter Zöchbauer   angular2   Aug 18 '16 at 7:52

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**.

3 Answers

▲

97

Constructor is predefined default method of the typescript class. There is no relation between Angular and `constructor`. Normally we use `constructor` to define/initialize some variables, but when we have tasks related to Angular's bindings we move to Angular's `ngOnInit` life cycle hook. `ngOnInit` is called just after the constructor call. We can also do the same work in the constructor but its

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Then we implement this interface with exported class (this is not compulsory to implement this interface but generally we did).

Example of using both:

```
export class App implements OnInit{
   constructor(){
       //called first time before the ngOnInit()
   }

   ngOnInit(){
       //called after the constructor and called  after the first ngOnChanges()
   }
 }
```

For more detail see also [Difference between Constructor and ngOnInit](#)

edited Jun 30 '17 at 21:26   answered Mar 7 '16 at 14:31

isherwood   Pardeep Jain
38.5k   11   86   114   **45.6k**   20   106   153

4   But you didn't answer the actual question. which one we should use in this case..? – Jugal Singh Aug 31 '17 at 7:21

8   ngOnInit is not called just after the constructor call, between of them there is ngOnChanges: angular.io/guide/lifecycle-hooks – Hazlo8 Sep 21 '17 at 7:45

      @JugalSingh You should use ngOnInit for binding related work. Constructor usage is not recommended as it affects the performance. Unless there is a dire need of initializing something prior hand, onInit serves the purposes very well – mobby Aug 3 '18 at 15:07

1   Kind of feels like web forms hell all over again. I just wanted to know that the constructor was called before ngInit in the <strike>webforms</strike> life-cycle – Piotr Kula Aug 6 '18 at 12:58 ✏

The first one (constructor) is related to the class instantiation and has nothing to do with Angular2. I mean a constructor can be used on any class. You can put in it some initialization processing for the newly created instance.

So you should use `ngOnInit` if initialization processing of your function relies on bindings of the component (for example component parameters defined with `@Input`), otherwise the constructor would be enough...

answered Mar 7 '16 at 13:56

Thierry Templier
153k   29   335   307

Are there any situations where using `ngOnInit` over the constructor would be bad? — dman Dec 29 '17 at 16:13

22

`constructor()` is a typescript feature and is called for `new SomeClass()` . The constructor ensures proper field initialization order in class hierarchies.

`ngOnInit` is an Angular2 lifecycle method that is called by Angular when it's done building the component and after it evaluated the bindings and updated the inputs the first time.

See also Difference between Constructor and ngOnInit

edited May 23 '17 at 11:47

Community ♦
1   1

answered Mar 7 '16 at 13:57

Günter Zöchbauer
353k   81   1108   1017

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1   You are 100% right and I upvote for you. In my mind, if we describe `ngOnInit` as React's `componentDidMount` , all the confusion will be gone. But to be honest, for developers, we just need to have only one initialization phrase, no matter it is called. The very old fashion way is use a function like class to build up a component class, so the injection is passed as arguments in and you only need one `$onInit` . Ng2+ is not a piece of beautiful artwork. — stanleyxu2005 Feb 4 '18 at 3:50

The constructor is a TypeScript language feature with certain restrictions. There is nothing Angular can do aboit it. — Günter Zöchbauer Feb 4 '18 at 5:18