TypeScript or JavaScript type casting

Asked 6 years, 10 months ago Active 1 year, 9 months ago Viewed 171k times



How does one handle type casting in TypeScript or Javascript?

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Say I have the following TypeScript code:

8

where symbolinfo is a base class. How do I handle typecasting from Symbolinfo to MarkerSymbolinfo in TypeScript or Javascript?

casting typescript

edited Jan 28 '14 at 10:56

asked Nov 3 '12 at 0:17

HIHC Mana Nii

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2 Answers



You can cast like this:

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return this.createMarkerStyle(<MarkerSymbolInfo);</pre>



Or like this if you want to be compatible with tsx mode:



return this.createMarkerStyle(symbolInfo as MarkerSymbolInfo);

Just remember that this is a compile-time cast, and not a runtime cast.

edited Nov 10 '17 at 16:44

Andy Skirrow

2,883 11 36

answered Nov 3 '12 at 5:53



12.3k 4 27 1

- 8 Now, I see that in in doc, referred to as Type Assertions in section 4.13. Klaus Nji Nov 3 '12 at 12:27
- 2 It doesn't work in JSX mode. Very sad. Brian Haak Jul 7 '16 at 6:06

This answer does no longer provide the full picture of type assertion in typescript, whereas Alex's answer gives a more complete picture, and should be the accepted answer. – Kristoffer Dorph Jan 5 '17 at 9:20 /

@KristofferDorph This answer is 4 years old. At the time of writing TypeScript was at version 0.8.1, and thus was the correct answer at the time. JSX support was only included 3 years later. – blorkfish Jan 5 '17 at 11:43

@blorkfish that is true, but it is good practice to follow the times, so people asking the same question today gets the current answer, and not as it where 4 years ago :-) – Kristoffer Dorph Jan 5 '17 at 14:04 /



This is called type assertion in TypeScript, and since TypeScript 1.6, there are two ways to express this:

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// Original syntax
var markerSymbolInfo = <MarkerSymbolInfo;</pre>

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Both alternatives are **functionally identical**. The reason for introducing the as -syntax is that the original syntax conflicted with <u>JSX</u>, see the design discussion <u>here</u>.

If you are in a position to choose, just use the syntax that you feel more comfortable with. I personally prefer the as -syntax as it feels more fluent to read and write.

edited Jun 15 '17 at 18:21

answered Feb 12 '16 at 12:10



Alex

6 42 66

- How do you indicate to typescript that you have converted an object to another type? For example a func that returns type2, inside it it http gets type 1, does logic to convert, and returns what was type1 but is now type2? Tony Gutierrez Jul 5 '18 at 5:56
 - @TonyGutierrez How do you do the conversion? Alex Jul 5 '18 at 7:49

Basically take one property and modify. The only way I have found to do this is to create a new var (type2) and copy in the props from the type1var and then return it. You can't modify the type1 and return, or you get a "Can't cast" error. – Tony Gutierrez Jul 5 '18 at 12:50

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