

What does the type { [key: string]: boolean; } mean?



Run into such thing lately, a function declaration:

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```
static required(control: AbstractControl): {  
    [key: string]: boolean;  
};
```



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What is this return value? An object with arbitrary amount of properties, where each of them is a boolean and has name, which appears to be string? It's more of a typescript question I guess, but just in case someone wonders where I found that - it's Angular's `Validators` class.

typescript

edited Apr 13 '17 at 15:46

user663031

asked Apr 13 '17 at 15:40



Leonid Bor

512 3 10 28

2 It's what the documentation says it is. Look up "indexable types". – user663031 Apr 13 '17 at 15:44

2 Here: typescriptlang.org/docs/handbook/... – Paleo Apr 13 '17 at 15:49

1 Answer



This is a key/value structure. The key is a `string` and the value is a `boolean`. For example:

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```
let map : { [key: string]: boolean } = {};  
map["foo"] = true;
```

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Check [this sample on the Typescript Playground](#).

[Indexable Types](#).

edited Apr 13 '17 at 20:15

answered Apr 13 '17 at 15:54



[Leonardo Chaia](#)

1,663 11 19

so if I do `console.log(map.foo)` it will work ok? – [Leonid Bor](#) Apr 13 '17 at 15:59

1 Hey @LeonidBor, I've improved the answer and added a sample. Hope it helps. – [Leonardo Chaia](#) Apr 13 '17 at 20:16

5 Why `map.foo = true; // Throws exception ??` – [lonewarrior556](#) Jun 21 '18 at 7:26

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