

js 'types' can only be used in a .ts file - Visual Studio Code using @ts-check

Asked 1 year, 5 months ago Active 8 months ago Viewed 33k times



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I am starting to use TypeScript in a Node project I am working on in Visual Studio Code. I wanted to follow the "opt-in" strategy, similar to Flow. Therefore I put `// @ts-check` at the top of my `.js` file in hope to enable TS for that file. Ultimately I want the same experience of "linting" as Flow, therefore I installed the plugin [TSLint](#) so I could see Intellisense warnings/errors.



But with my file looking like:



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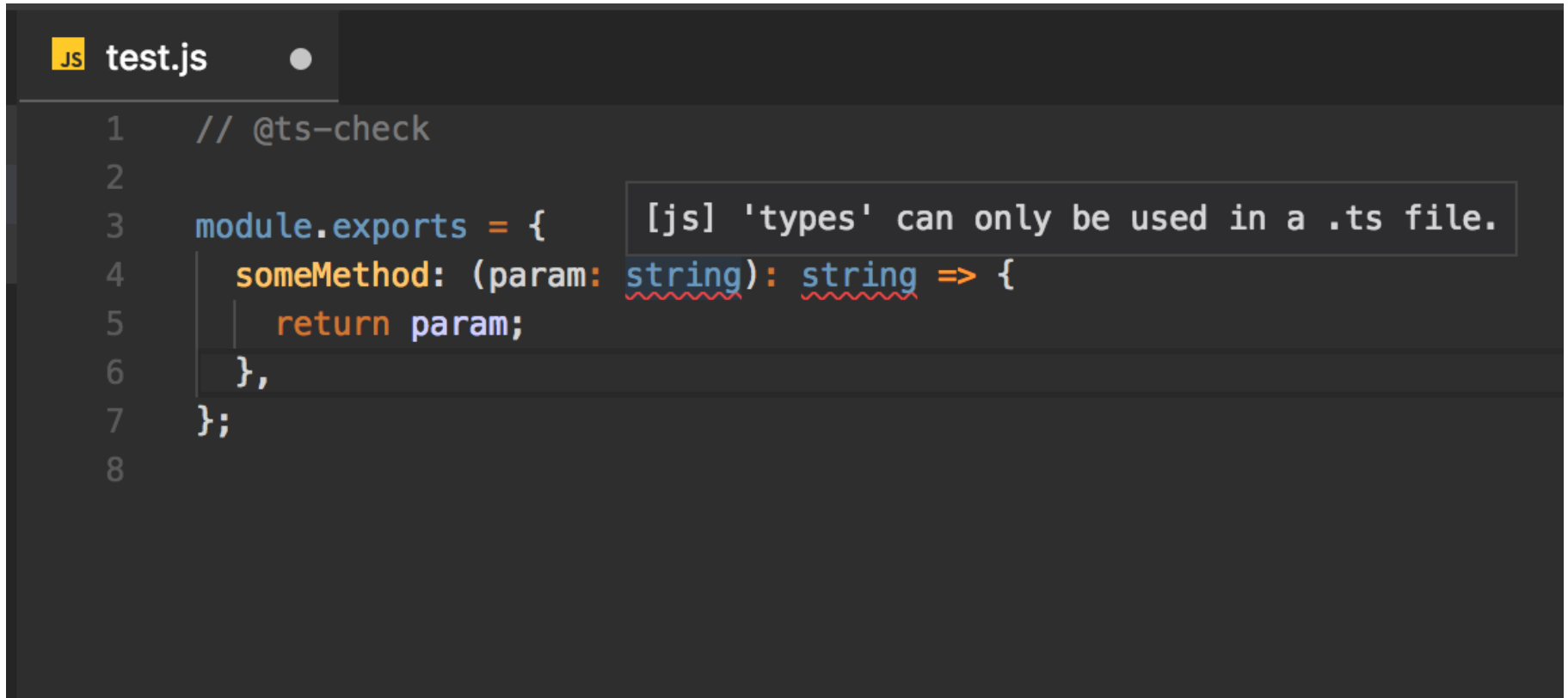
```
// @ts-check

module.exports = {
  someMethod: (param: string): string => {
    return param;
  },
};
```

and my `tsconfig.json` file looking like...

```
{
  "compilerOptions": {
    "target": "es2016",
    "module": "commonjs",
    "allowJs": true
  }
}
```

I get this error: `[js] 'types' can only be used in a .ts file.` as shown below in the image.



```
1  // @ts-check
2
3  module.exports = {
4    someMethod: (param: string): string => {
5      return param;
6    },
7  };
8
```

I saw [this question](#) which recommended disabling javascript validation in vscode but then that doesn't show me **any** TypeScript Intellisense info.

I tried setting `tslint.jsEnable` to `true` in my vscode settings as mentioned in the TSLint extension docs but no luck there.

What is the correct setup in order to use `.js` files with TypeScript and get Intellisense so I know what the errors in my code are before I run any TS commands?

[javascript](#)[typescript](#)[visual-studio-code](#)

asked Feb 19 '18 at 3:28



[james](#)

1,198

3

21

40

Do you have any error if you change the extension to ts? – [israel.zinc](#) Feb 19 '18 at 3:34

@israel.zinc changing the extension to `.ts` show me the TS errors/warnings as expected. I guess this could work, but I was hoping for more of the opt-in method using `@ts-check` while keeping all my extensions as `.js` – [james](#) Feb 19 '18 at 3:49

Possible duplicate of [Visual Studio Code:\[js\] types can only be used in a .ts file](#) – [BuZZ-dEE](#) Jun 29 at 23:36

@BuZZ-dEE it might be, but the answers there did not solve the issue. I mentioned this in my original question. – [james](#) Jul 2 at 14:17

3 Answers



I'm using [@flow](#) with vscode but had the same problem.

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I solved it with this steps:

1. install the extension [Flow Language Support](#)
2. disable the built-in TypeScript extension:

How to disable built-in TypeScript:

1. go to *extensions* tab
2. search for **@builtin TypeScript and JavaScript Language Features**
3. click on *Disable*

answered May 17 '18 at 6:59



[Idan Dagan](#)

2,719 2 16 28

- 4 The accepted answer is not always correct. There's a bug in VSCode with React Native and Flow that gives the same message in `.js` files, and in that case YOU SHOULD NOT change to `.ts`, but continue with `.js` and fix the problem as suggested here!! – [pashute](#) May 17 '18 at 13:24

- 43 Just an FYI: Disabling this extension basically nullifies all of the nice things about JS development with VSCode. Instead, you should just add the following into your settings json file: `"javascript.validate.enable": false` – [heez](#) May 22 '18 at 21:52

as @heez has mentioned this will affect, finding reference to javascript files, autocompletion etc don't disable Javascript Language Features. – [Ajitsen](#) Dec 29 '18 at 12:35

This disables things like going to function definitions. – [GEMI](#) Jan 16 at 20:13

The valid answer was said by @heez – Asim Olmez Jul 20 at 14:41



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Use "javascript.validate.enable": false in your VS Code settings, It doesn't disable ESLINT. I use both ESLINT & Flow. Simply follow the instructions [Flow For Vs Code Setup](#)

Adding this line in settings.json. Helps "javascript.validate.enable": false

edited Oct 23 '18 at 9:10



chengsam

4,841 3 20 32

answered Jun 6 '18 at 17:42



Adeel Imran

3,983 1 25 47

3 With this You don't have to disable typescript. Both can exists. Best solution! – Nirus Oct 18 '18 at 5:48

1 If you are using ESLint to validate your Javascript, then this answer is the best solution. More info: code.visualstudio.com/docs/languages/... and also github.com/flowtype/flow-for-vscode#setup – Beau Smith Dec 6 '18 at 18:59 ✎



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You must use a .ts file - e.g. test.ts to get Typescript validation, intellisense typing of vars, return types, as well as "typed" error checking (e.g. passing a string to a method that expects an number param will error out).

It will be transpiled into (standard) .js [via tsc](#) .

Update (11/2018):

Clarification needed based on down-votes, very helpful comments and other answers.

types

- Yes, you can do type checking in VS Code in .js files with [@ts-check](#) - as shown in the animation
- What I originally was referring to for **Typescript** types is something like this in .ts which isn't quite the same thing:

```
hello-world.ts
```

```
function hello(str: string): string {  
  return 1;  
}
```

```
function foo(str:string):void{
    console.log(str);
}
```

This will not compile. Error: Type "1" is not assignable to String

- if you tried this syntax in a **JavaScript** `hello-world.js` file:

```
//@ts-check

function hello(str: string): string {
    return 1;
}

function foo(str:string):void{
    console.log(str);
}
```

The error message referenced by OP is shown: `[js] 'types' can only be used in a .ts file`

If there's something I missed that covers this as well as the OP's context, please add. Let's all learn.

edited Nov 17 '18 at 17:34

answered Feb 19 '18 at 3:34



EdSF

8,576 3 31 63

I have found a few articles that suggest you can use all the features of TS within a JS file. Here's one from [Smashing Magazine](#), a [GitHub issue for vscode](#) that describes the setup, and some [release notes for vscode](#) – [james](#) Feb 19 '18 at 3:53

@jamez14 I haven't tried/had the need to *not* use `.ts`. IINM, the samples show *error checking* and *intellisense*. The issue you have is (static) type ing your variables, and return types as well - e.g. `foo:string` , `bar:number` , `fubar:MyClass` , `myMethod(f:Array):void` , `anotherMethod():string` . Hth... – [EdSF](#) Feb 19 '18 at 5:31

yep, looks like you are right with your assessment. After looking more at the examples, I'm seeing it is just JS error checking, not TS, when using the `@ts-check` attribute. Very misleading... – [james](#) Feb 19 '18 at 13:39