

Is there a way to remove unused imports and declarations from Angular 2+?



I'm assigned to take some messed code from other developers who have already left the company recently.

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I am curiously asking is there some plug-in of Visual Studio Code or other means that could help us to tidy and organize the imports and references quickly and effectively?



For example, there are maybe hundreds of imports like this



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```
import { AutoCompleteModule, InputSwitchModule } from 'primeng/primeng';  
import { ListboxModule } from 'primeng/primeng';
```

could be converted to similarly

```
import { AutoCompleteModule,  
        InputSwitchModule,  
        ListboxModule } from 'primeng/primeng';
```

Or other functions like automatically removing those unused imports and declarations from the app.module or from all components through the whole project?

Thanks for any feedback!



edited Oct 13 '17 at 4:57



[jitender](#)

3,954 1 10 32

asked Oct 13 '17 at 4:47



[ske](#)

751 1 10 27

I too am wondering if extraneous imports into components specifically are a drag on performance. – [Marcidius](#) Oct 18 '17 at 14:22

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Edit (as suggested in comments and other people), the visual studio code has evolved and provides this functionality in-built by simply

`option` + `Shift` + `O` for Mac

`Alt` + `Shift` + `O` for Windows

Original answer:

I hope this visual studio code extension will suffice your need: <https://marketplace.visualstudio.com/items?itemName=rbb.it.typescript-hero>

It provides following features:

- Add imports of your project or libraries to your current file
- Add an import for the current name under the cursor
- Add all missing imports of a file with one command
- Intellisense that suggests symbols and automatically adds the needed imports "Light bulb feature" that fixes code you wrote
- Sort and organize your imports (sort and **remove unused**)
- Code outline view of your open TS / TSX document
- All the cool stuff for JavaScript as well! (experimental stage though, better description below.)

For Mac: `control` + `option` + `o`

For Win: `Ctrl` + `Alt` + `o`

edited May 31 at 5:18

answered Oct 13 '17 at 4:58



Muhammad Rehan Qadri

968 9 14

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- 1 In 2018 TS Hero's project maintainer [has said](#) he would discontinue the extension, since it has become obsolete after the implementation of the main functionalities directly in VS Code (see other coments). – [mattarau](#) Mar 31 at 21:02

As of Visual Studio Code Release **1.22** this comes free without the need of an extension.

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     will take care of you.

edited Apr 6 '18 at 16:42



[NightOwl888](#)

43.3k 20 101 167

answered Apr 6 '18 at 16:22



[Aaron Jordan](#)

1,546 2 8 10

- 1 Nice! I've been using ctrl+shift+- since forever and now I can find and change the shortcut. – [GeorgiG](#) Jan 4 at 15:52

- 1 This should be the right answer – [Housseem Badri](#) Apr 4 at 8:05

Since **VSCode v.1.24** and **TypeScript v.2.9**:

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For Mac:  +  + 


For Win:  +  + 

answered Jun 8 '18 at 8:48



[kenny](#)

735 6 10

- 3 more important to some, the command is `Organize Imports` or `editor.action.organizeImports` – [pcnate](#) Aug 23 '18 at 19:56 

To be able to detect unused imports, code or variables, make sure you have this options in **tsconfig.json** file

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have the typescript compiler installed, if not install it with:

```
npm install -g typescript
```

and the **tslint** extension installed in Vcode, this worked for me, but after enabling I notice an increase amount of CPU usage, specially on big projects.

I would also recomend using **typescript hero** extension for organizing your imports.

answered Mar 22 '18 at 11:51



[Matheus Frik](#)

419 4 9

If you're a heavy visual studio user, you can simply open your preference settings and add the following to your settings.json:

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```
...
"editor.formatOnSave": true,
"editor.codeActionsOnSave": {
  "source.organizeImports": true
}
....
```

Hopefully this can be helpful!

answered Feb 12 at 23:28



[JayKan](#)

1,040 11 19

2 As of April 2018, this is the best way to manage imports on save. – [Mark](#) Feb 13 at 4:08

2 Thanks this saved tons of work! – [P.M](#) Feb 18 at 20:40

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go to your `tslint.json` and change the value of the property `no-unused-variable` to `false`

answered Oct 13 '17 at 11:12



Mohamed Ali RACHID

2,289 5 18

This is exactly the opposite of what the OP asked. S/he wants to NOT have unused variables so `no-unused-variable` should be true. What's been asked is if the fix (removal of the unused variables) can be done automatically, which has been already answered. — [mattarau](#) Mar 31 at 20:56

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