



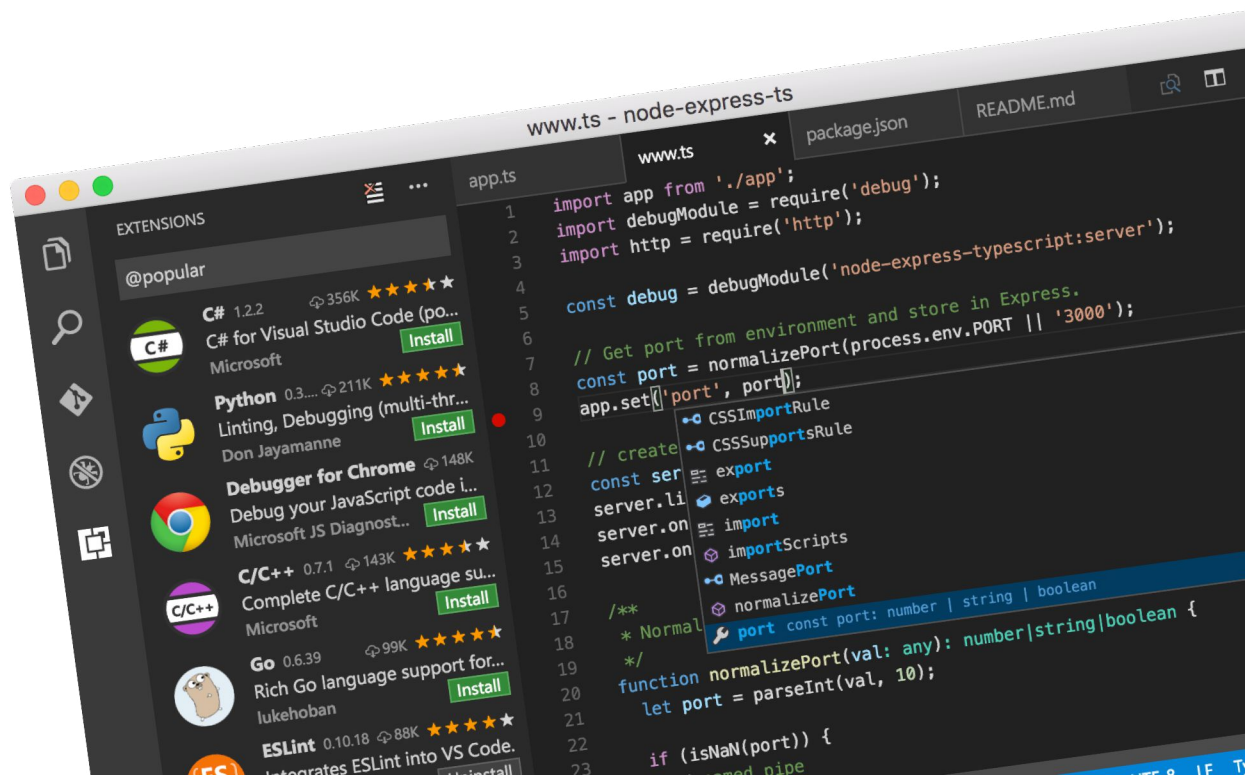
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Visual Studio Code

Installing and configuring **VS Code**
for writing HTML and CSS
And Javascript!

Tips & tricks!

Version April 2021

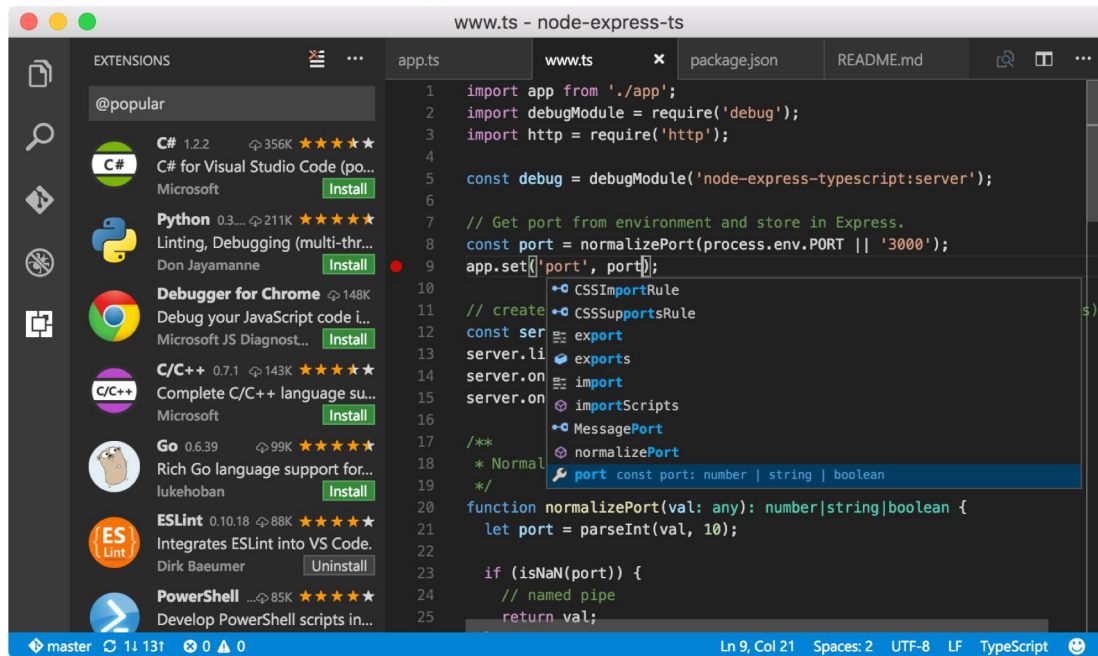


Visual Studio Code

You can download and install VS Code by visiting

<https://code.visualstudio.com>

VS Code is a state of the Art Code editor, modeled after another famous code editor called **Sublime Text**. It's free, open source, and available for Mac and Windows.



If there's **ONLY ONE** keyboard shortcut you would want to remember it's **this one**:

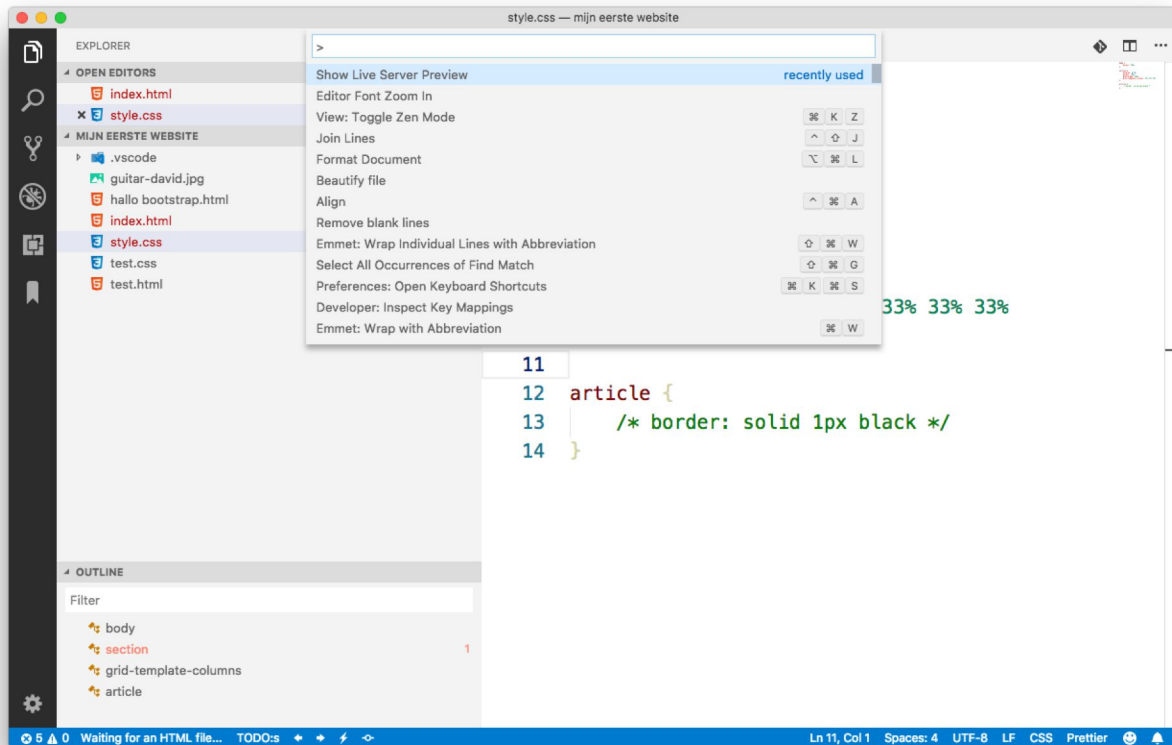
CTRL + SHIFT + P (Windows)

COMMAND + Shift + P (Mac)

Memorize it!

It opens the menu dropdown of VS Code, enabling you to type-search **all dropdown menu items** of the code editor!!

That means **every menu item** of VS Code is accessible through this simple shortcut!



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Editor settings!

These editor settings will make your coding life easier! Trust me!

In the editor settings:

Set **Word wrap** to **on**

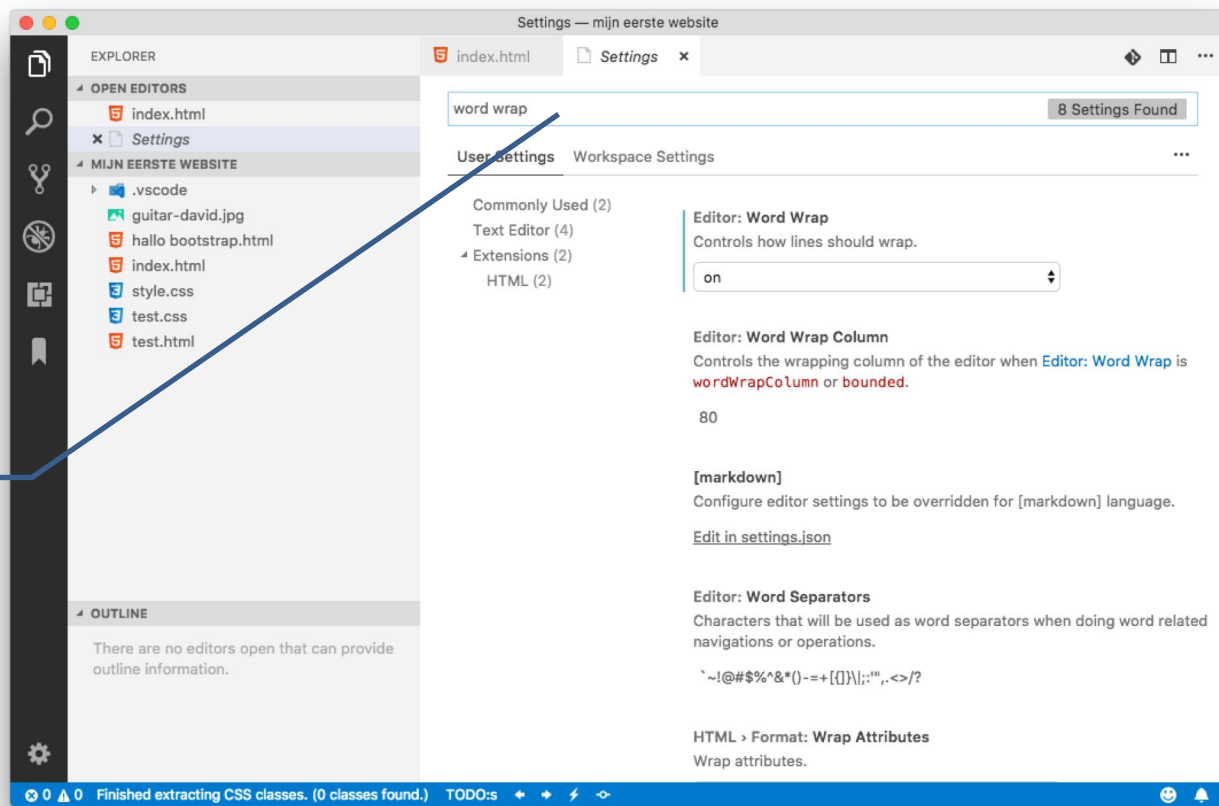
Set **Auto Save** to **onFocusChange**

Set **Format On Save** to **on**

You can fast-search through editor settings by just typing what you're looking for!

How to access the settings?

Go to editor settings by clicking here



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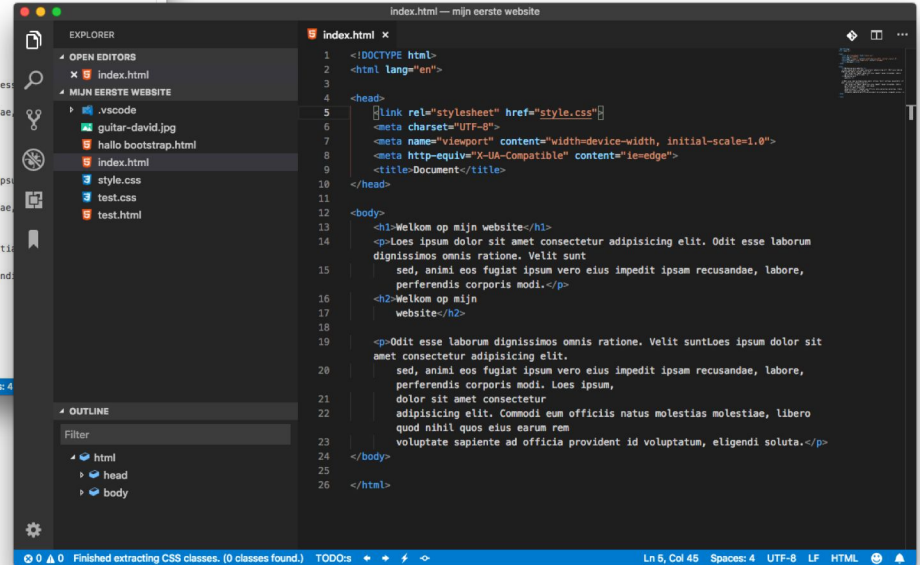
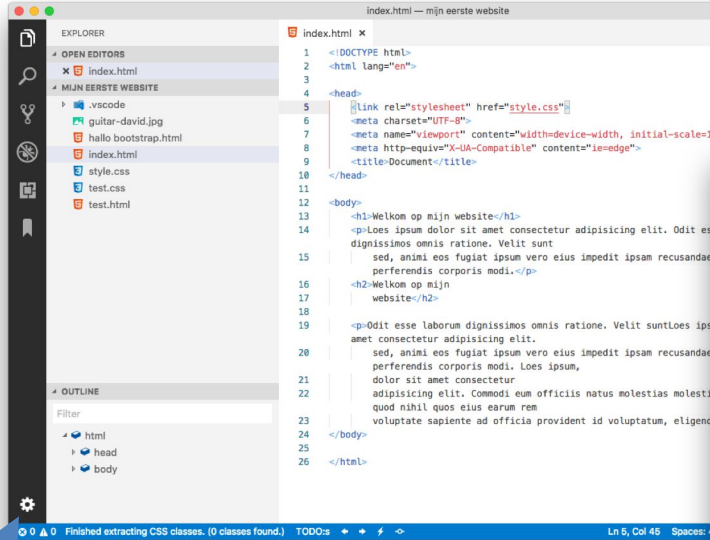
Editor settings

The screenshot shows the VS Code Settings window for a workspace named 'mijn eerste website'. The Explorer sidebar on the left shows the file structure with 'index.html' and 'style.css' in the 'MIJN EERSTE WEBSITE' folder. The Settings panel on the right is open, displaying 'User Settings' and 'Workspace Settings' tabs. A search bar at the top of the settings panel shows '908 Settings Found'. The 'Commonly Used' section is expanded, showing settings for 'Files: Auto Save' (set to 'onFocusChange'), 'Files: Auto Save Delay' (set to '1000'), 'Editor: Font Size' (set to '20'), 'Editor: Font Family' (set to 'Menlo, Monaco, 'Courier New', monospace'), and 'Editor: Tab Size' (set to '4'). A blue callout box on the left contains text about viewing the raw settings file in JSON format. A blue arrow points from this callout to the 'Open settings.json' button in the top right corner of the settings panel. Another blue arrow points from the 'Files: Auto Save' dropdown menu to the same button.

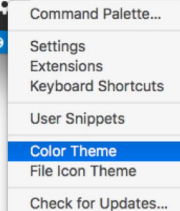
You can also see the raw settings file in JSON text format by clicking here. By copying this file to another version of VS Code, you can copy settings across editors! (This even includes settings of extensions, if you also installed the “user-settings extension”)

Show modified settings
Open settings.json

Appearance



You can easily switch between a light and a dark version of the editor by going to the settings section dropdown menu and toggling the “Color Theme” item in the dropdown menu.



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Auto expansion of code, with auto suggestions!!

This works for every piece of HTML you can think off! Try typing `link` and then choosing `css` from the dropdown that appears to drop a link to a CSS file in the `<head>` of your HTML document!



```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  link
  <tit link
</head>
```

- link:atom
- link:css
- link:favicon
- link:im
- link:import


Emmet Abbreviation x
<link rel="stylesheet" href="|">


Auto type code with TAB or RETURN!


More examples



Typing `p>lorem` Followed by hitting the `TAB` key generates a paragraph with dummy Lorem Ipsum text!

Typing `a` Followed by hitting the  key generates the HTML tag for a hyperlink `<a>` You only have to specify the location of the linked page, and the hyperlinked text!

And typing `!` followed by hitting  generates an empty standard HTML page, with `<head>` and `<body>`, **ready to rock!**

Now try it yourself: place an HTML tag for an image in your page, by typing `img` + 

```
<p>Lorem ipsum dolor sit amet consectetur adipisicing
elit. Suscipit quod voluptatem consectetur quas in
quos veritatis libero officiis, soluta cupiditate
inventore voluptas atque cumque magnam impedit maiores
porro! Numquam, quis?</p>
```

```
<a href=""></a>
```

```
5 index.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <meta http-equiv="X-UA-Compatible" content="ie=edge">
7   <title>Document</title>
8 </head>
9 <body>
10
11 </body>
12 </html>
```


Auto code expansion

And auto-expansion also works for CSS and JavaScript!!

Try typing `m10px` and then hit your `TAB` key or `RETURN` key to get “`margin:10px`”



```
5
6 section {
7     display: grid;
8     m
9     g ⚙️ margin: ;
10    g ⚙️ margin
11 }   ⚙️ margin-block-end
12   ⚙️ margin-block-start
13 artic ⚙️ margin-bottom
14 /    ⚙️ margin-inline-end
15 }   ⚙️ margin-inline-start
      ⚙️ margin-left
      ⚙️ margin-right
```

Emmet Abbreviation
margin: ;
margin: ;

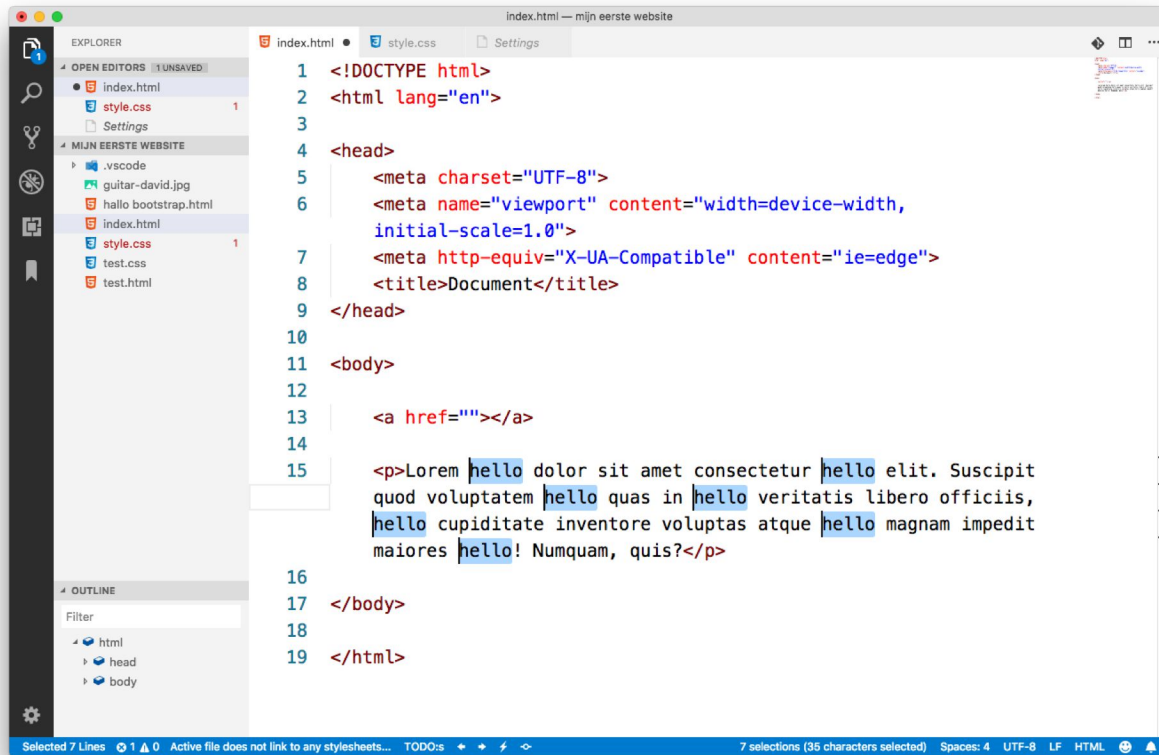
No more having to remember **every little nitpicky piece** of HTML or CSS code, or having to stuff them all in your head to recall from memory!



Multiple cursors

Another neat function of a dedicated code editor is the ability to use **multiple cursors**, so you can type multiple things in multiple places at once!

Try doing **that** with Word!



The screenshot shows the Visual Studio Code interface with a file named 'index.html' open. The Explorer sidebar on the left shows the project structure with files like 'index.html', 'style.css', 'test.css', and 'test.html'. The main editor area displays the HTML code. Seven blue cursors are positioned at the start of the words 'hello' in the paragraph on line 15. The status bar at the bottom indicates 'Selected 7 Lines' and '7 selections (35 characters selected)'.

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width,
7     initial-scale=1.0">
8   <meta http-equiv="X-UA-Compatible" content="ie=edge">
9   <title>Document</title>
10
11 </head>
12
13 <a href=""></a>
14
15 <p>Lorem hello dolor sit amet consectetur hello elit. Suscipit
    quod voluptatem hello quas in hello veritatis libero officiis,
    hello cupiditate inventore voluptas atque hello magnam impedit
    maiores hello! Numquam, quis?</p>
16
17 </body>
18
19 </html>
```

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Extending VS Code's functionality with extensions. Make life easier!



Installing extensions

These extensions will **speed up** working with HTML and CSS files **significantly**! Install them ASAP! Some of the cool things these extensions do: automatically format and beautify your code, or automatically check your CSS and HTML files for coding or typing errors and mistakes, etc..

PS: The **W3C Validation** extension also requires you to install The Java Runtime Environment plugin in Windows. If this is too much of a hassle, you can (instead) install the **W3C Web Validator extension**.



1. Live Server (by Ritwick Dey)
2. Class autocomplete for HTML
3. HTML class Suggestions
4. CSSTree Validator
5. Image Preview
6. CSS Peek
7. Path IntelliSense
8. Beautify
9. Prettier - Code formatter
10. HTML CSS support
11. Auto Rename Tag
12. AutoFileName
13. Blank Line organiser
14. highlight-matching-tag
15. W3C Validation/

or: W3C Web Validator

Install here 😊



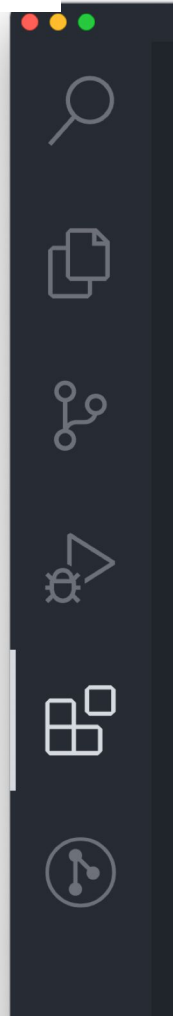
W3C Web Validator

celianriboulet.webvalidator

Celian Riboulet | 1,622 | ★★★★★ | Repository | License | v1.0.9

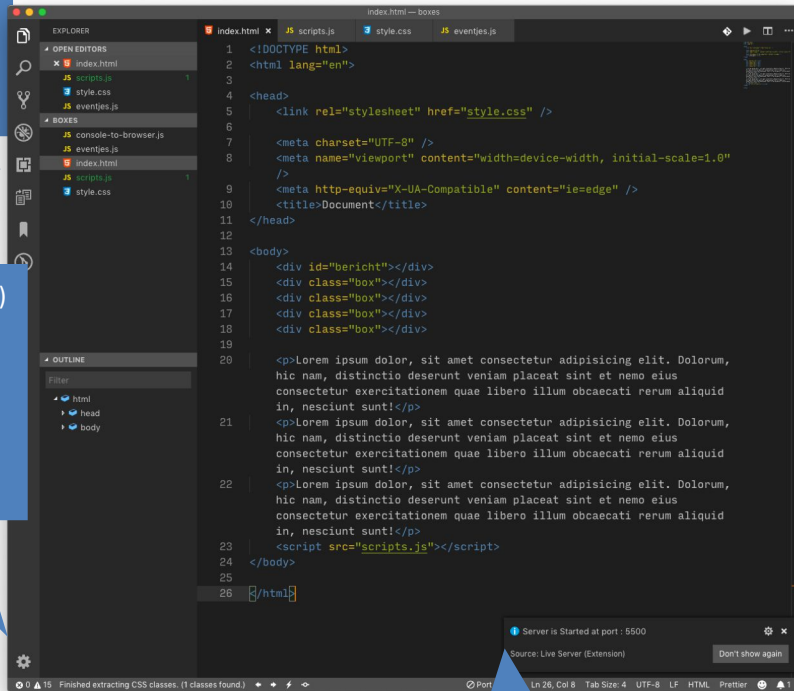
Check the validity of your HTML and CSS files with the W3C Validator API

[Disable](#) [Uninstall](#) This extension is enabled globally.



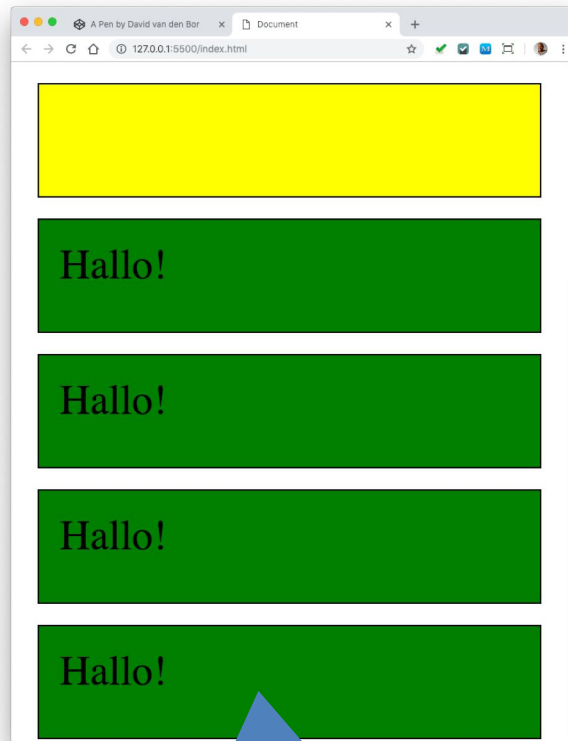
If you install the “Live Server” extension, you can work with your code editor and Google Chrome side by side!

No more CTRL+S (save file) or CTRL+R (refresh browser) because you set VS Code to auto-save on filechange, which triggers the auto refresh function of the browser!

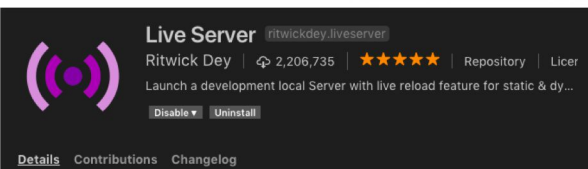


```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <link rel="stylesheet" href="style.css" />
6
7   <meta charset="UTF-8" />
8   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
9   <meta http-equiv="X-UA-Compatible" content="ie=edge" />
10  <title>Document</title>
11 </head>
12
13 <body>
14   <div id="bericht"></div>
15   <div class="box"></div>
16   <div class="box"></div>
17   <div class="box"></div>
18   <div class="box"></div>
19
20   <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Dolorum, hic nam, distinctio deserunt veniam placeat sint et nemo eius consectetur exercitationem quae libero illum obcaecati rerum aliquid in, nesciunt sunt!</p>
21   <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Dolorum, hic nam, distinctio deserunt veniam placeat sint et nemo eius consectetur exercitationem quae libero illum obcaecati rerum aliquid in, nesciunt sunt!</p>
22   <p>Lorem ipsum dolor, sit amet consectetur adipisicing elit. Dolorum, hic nam, distinctio deserunt veniam placeat sint et nemo eius consectetur exercitationem quae libero illum obcaecati rerum aliquid in, nesciunt sunt!</p>
23   <script src="scripts.js"></script>
24 </body>
25
26 </html>
```

VS Code
HTML page




The browser **automatically** reloads/refreshes your automatically saved files!

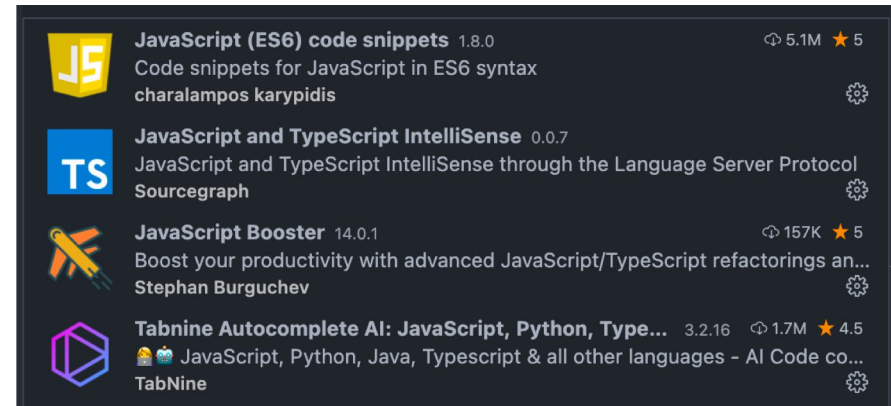


Working with Javascript?

Here are some handy Vs Code **extensions** that make working with Javascript easier!

For instance, The **Bracket Pair Colorizer** extension allows **matching brackets** to be identified with colours!

- 
- Bracket Pair Colorizer 2
 - Javascript ES6 Code Snippets
 - Javascript Booster
 - Javascript and Typescript IntelliSense



And last but **but not least** 😊

Install this extension: **One Dark Pro!**

In my opinion, this is hands down the best **colour scheme** for VS Code, enabling you to clearly see all the logic in your code (coloured clearly in an understandable way)



One Dark Pro zhuangtongfa.material-theme

binaryify | 3,527,277 | ★★★★★ | Repository | License | v3.10.13

Atom's iconic One Dark theme for Visual Studio Code

Set Color Theme

Disable ▾

Uninstall ▾

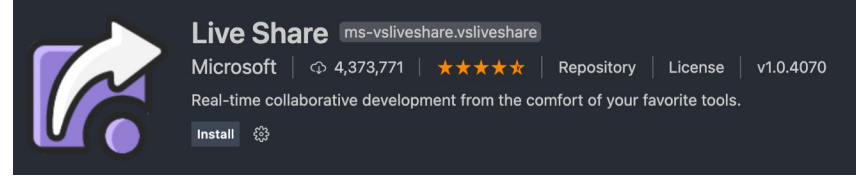


This extension is enabled globally.

```
1 var studenten = [ 'Jan', 'Piet', 'Joost', 'Tanja' ];
2 studenten.unshift('Karel', 'Loes');
3
4 function setup() {
5   console.log('DEBUG: studenten', studenten);
6   createCanvas(500, 500);
7   noLoop();
8 }
9
10 function draw() {
11   background(200, 200, 225);
12   for (var aantal = 0; aantal < 10; aantal++) {
13     console.log(aantal);
14     fill('white');
15     rect(0 + 50 * aantal, 0, 50, 50);
16     rect(0 + 50 * aantal, 0, 50, 50);
17     rect(0 + 50 * aantal, 0, 50, 50);
18     rect(0 + 50 * aantal, 0, 50, 50);
19     rect(0 + 50 * aantal, 0, 50, 50);
20     rect(0 + 50 * aantal, 0, 50, 50);
21     rect(0 + 50 * aantal, 0, 50, 50);
22     rect(0 + 50 * aantal, 0, 50, 50);
23     rect(0 + 50 * aantal, 0, 50, 50);
24   }
25
26   /*
27   Kleine quiz:
28   Benoem alle GEKLEURDE onderdelen!
29   Je mag kiezen uit:
30   - functie
31   - keyword
32   - variabele
33   - string
34   - numeral
35
36   Alles in paars is een:
37   Alles in blauw is een:
38   Alles in rood is een:
39   Alles in groen is een:
40   Alles in oranje is een:
41   */
42 }
```

Optional: The VsCode **Live Share** **extension** enables you to collaboratively edit code with others **live** in **real time**!

Ps: But Microsoft **Teams** **also** has similar functionality: when screen sharing is enabled, you can grant a **guest** access so they can collaborate with you (using their mouse and keyboard)



Code together remotely **online**
with others live **in** real time?

