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**Minification –** Removes characters that are not necessary when writing code. It does so in a manner that will not affect the code itself. When you minify code after you have finished writing it. When its minified it allows the code to be ran faster since it doesn’t have all the extra characters to go through.

There are also compression websites you can use that will minify it for you.

In Visual Studio code, you must download and install an extension.

**markup validation-** When you are writing code it’s very easy to make a mistake. Having your work validated is as it sounds, validation just checks to make sure you don’t have any mistakes/errors in your code. Validation can also be used as a debugging tool.

There are a few ways you can validate your work. You can use the https://validator.w3.org/#validate\_by\_uri and either enter in an URI, upload your file, or copy and paste into the site directly. It is free to use.

# References

*About The W3C Markup Validation Service*. n.d. <https://validator.w3.org/about.html>.

Campbell, Craig. *How to Externalize and Minify JavaScript*. 08 03 2018. <https://webdesign.tutsplus.com/tutorials/how-to-externalize-and-minify-javascript--cms-30718>.

*Minification*. n.d. <https://www.imperva.com/learn/performance/minification/>.

*Minification (programming)*. 05 11 2019. <https://en.wikipedia.org/wiki/Minification\_(programming)>.

*W3C*. n.d. <https://validator.w3.org/#validate\_by\_uri>.

*Why do you need to validate your site on W3C?* n.d. <https://www.loginradius.com/engineering/need-validate-site-w3c/>.