# Introduction

An HTML validator is a specialized program or application used to check the validity of HTML markup in a Web page for any syntax and lexical errors. This is because HTML is not compiled and it is a very forgiving language in terms of errors; everything still works in a way, so there is no quick way to check for such errors. Hence, a separate program is required. (html validator, 21)

# Purpose of validation

The purpose of validation and computerized checking of HTML, XHTML, and CSS documents is to help make sure that the documents are syntactically correct and problem-free. Checked HTML, XHTML, and CSS documents are more likely to:

* render faster and with fewer problems (user agents don't have to "figure out" and decipher bad syntax)
* cause browsers and user agents to build a more consistent Document Object Model which is important for CSS and JavaScript
* be forward-compatible with future versions of user agents and browsers ("future-proof")
* be compatible with current and future HTML, XHTML, and CSS specifications
* render as intended on a variety of user agents, including mobile devices
* cause fewer problems for visitors
* be more accessible for people with disabilities (such as blindness), as well as users in general

While automated checking tools are helpful for website development and maintenance, they cannot guarantee that a document will display as intended in all browsers. Developers should always test documents in a variety of browsers (including mobile browsers) to locate problems that cannot be detected with a computerized checking tool. (css html validator , 21)

# Advantages

Since web pages are rendered by using HTML (Hyper Text Markup Language) here are few important [benefits](http://benefitof.net/encouraging-benefits-associated-with-keeping-a-food-diary/)of HTML validation of the web page:

* Help Improve Rankings in Search Engines
* Validation Helps Teach Best Practices
* Improved Website User Experience
* Make Website Browsers Friendly
* Multiple Device Accessibility
* Validation Help for Easy Coding and Maintenance
* Validation as a Debugging Tool (W3C Validation: What is it and why to use it?, 21)

# Disadvantages

* The main problem with the validator is that it is a machine. It will identify things as problems that have no bearing on the quality of the site. Also errors can cascade - a mistake early on in the page can cause it to look like there are many more errors further on. Fix the first error and miraculously a further 39 will disappear.
* Another issue is that for HTML 5 (the latest & greatest standard) even the validator itself admits that it gets it wrong as it is still in “experimental” - computer programmer speak for buggy. This site is HTML 5. (validation, 2021)
* Cost*.* There is a cost associated with the validation process. It will be charged by W3C that ensure the organization can cover up its maintenance cost.
* Translation issues*.* One thing that might annoy the users about validation process is the translation troubles that they have to face. There are tons of mystical messages delivered by W3C in coding language that is hard to understand for beginners. However, there is no chance that you will face an issue once get used too with their messages. (W3C Validation Pros and Cons, 2021)

HTML validator from iteration 1

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

HTML validator from iteration 3

Graphical user interface, text, application

Description automatically generated

HTML validator from iteration 4

Background pattern

Description automatically generated

|  |  |  |
| --- | --- | --- |
| **Rules** | **Checklist** | **How To Improve** |
| **Close the Tags** | **Yes** | **Do not have to improve it** |
| **Use of Meaningful Title Tags** | **Yes** | **Do not have to improve it** |
| **Descriptive Meta Tags** | **no** | **Not applicable. I have not use it** |
| **Use of Keyword Meta Attribute** | **no** | **Not applicable. I have not use it** |
| **Avoid Using Inline Styles** | **Yes** | **Might be one place with a code in a line** |
| **Place the JavaScript Files at the Bottom** | **Yes** | **Placed at <script>** |
| **Divide Your Layout Using Divs** | **yes** | **Works fine like that** |
| **Tag names in Lowercase** | **yes** | **Do not have to improve it** |
| **Add alt attribute in the Images** | **yes** | **Can use it more often** |
| **Proper use of headings** | **yes** | **Do not have to improve it** |

# Reflection

It helped me to see if I am on right track and my HTML and CSS on good standard level.

Some errors could be corrected, but I do not see the point of this, since they are insignificant and in no way interfere with further work with vending machines.

* Attribute “X” is not serializable as XML 1.0.
* An attribute could not be parsed from HTML input, probably due to a typo.
* Helped me to beatify my CSS code, on Iteration 3 I forgot to use <template> it caused multiple errors during validation, after typing it in at the begin my problem was solved.

It is a good idea to have all of the common styling first in the stylesheet. This means all of the styles which will generally apply unless I do something special with that element.

# References

*css html validator* . (21, 08 24). Retrieved from wiki: https://en.wikipedia.org/wiki/CSS\_HTML\_Validator

*html validator*. (21, 08 24). Retrieved from techopedia: https://www.techopedia.com/definition/15680/html-validator

*validation*. (2021, 08 24). Retrieved from jewelion: https://www.jewelion.com/blog/validation/

*W3C Validation Pros and Cons*. (2021, 08 24). Retrieved from blog.codedthemes: https://blog.codedthemes.com/w3c-validation-pros-and-cons/#.YSRLU4gzbIU

*W3C Validation: What is it and why to use it?* (21, 08 24). Retrieved from loginradius: https://www.loginradius.com/blog/async/w3c-validation/