



W3C Scoring Methodology

This document has been written by Mériam Saad and Alice Haupais.

Introduction:

The Markup Validator is a free service by W3C that helps check the validity of Web documents. Validating Web documents is an important step which can dramatically help improving and ensuring their quality, and it can save a lot of time and money. Validating Web Pages is also an important accessibility best practices to resolve (RGAA, criteria 8.2). If the HTML code is not well formatted, the browser will dynamically correct a certain number of elements to best display the pages causing problems. These dynamic corrections consume resources unnecessarily each time the pages concerned are loaded.

EcoSonar Integration:

To integrate the W3C Audit into EcoSonar Existing Panel, we wanted to give an informative score on the application of accessibility and code quality guidelines within the project. For that, we had to define a strategy to implement a score out of 100. We defined the list of most common result items and define regexp expression to fulfill most of W3C audit results. Then, for each item we define a score based on the type and of the criticality of the error. Finally, to give the final score we sum up every error that could not be found in the audit. In order to increase your W3C Score, you will need to resolve as many similar items as possible.

Examples:

- Project A

The project has no error: every error score adds up to reach the maximum score (e.g 130). Then we reset it on a base 100. The project will have a A Score with 100/100.

- Project B

Project B when returned by W3C Audit has around 1300 different items. Some of these errors respect the same regexp expression (e.g: Attribute ____ not allowed on element ____ at this point).

You score will be the sum of the error expression that could not be found into your audit: if the regexp expression is matching one of the items, you score stays identical; if the regexp expression does not match then the score defined for this item is added to your project score.

We add up every error and get the result.

List of W3C Item:

Item Regexp Expression	Type	Coefficient	Error Score	Total	Comments
The character encoding was not declared. Proceeding using ____.	Error	4	1	4,00	
Start tag seen without seeing a doctype first. Expected <!DOCTYPE html>.	Error	4	3	12,00	RGAA
The ____ attribute on the ____ element is obsolete. ____	Error	4	3	12,00	RGAA
The ____ element is obsolete. Use ____	Error	4	3	12,00	RGAA
Attribute ____ not allowed on element ____ at this point.	Error	4	1	4,00	
Too many messages.	Fatal Error	6	3	18,00	
The ____ attribute for the style ____ is not needed and should be omitted.	Warning	1	1	1,00	
The ____ attribute is obsolete. Consider specifying ____ in CSS instead.	Warning	1	1	1,00	
Trailing slash on void elements has no effect and interacts badly with unquoted attribute values.	info	0,5	1	0,50	
Attribute xmlns:og not allowed here.	Error	4	2	8,00	Code quality
Bad value ____ for attribute ____ on element ____	Error	4	3	12,00	

Forbidden code point U+0008	Error	4	1	4,00	
CSS: ____: ____ is not a ____ value	Error	4	1	4,00	
CSS: ____t: Property ____ doesn't exist.	Error	4	1	4,00	
Element ____ not allowed as child of element ____ in this context. (Suppressing further errors from this subtree.)	Error	4	1	4,00	
Element ____ is missing required attribute ____	Error	4	1	4,00	Code quality
Element ____ is missing one or more of the following attributes: ____.	Error	4	1	4,00	
The ____ element must not appear as a descendant of the ____ element.	Error	4	3	12,00	RGAA
A document must not include more than one visible main element.	Error	4	3	12,00	RGAA

The element ____ must not appear as a descendant of an element with the attribute ____	Error	4	3	12,00	RGAA
Element picture is missing a required instance of child element img.	Error	4	3	12,00	RGAA
The ____ attribute must not be used on a ____ element which has a ____ ancestor with no ____ attribute, or with a role attribute whose value is ____, ____, or ____	Error	4	1	4,00	
An img element must have an alt attribute, except under certain conditions. For details, consult guidance on providing text alternatives for images.	Error	4	3	12,00	RGAA
Attribute with the local name xmlns:og is not serializable as XML 1.0.	Warning	1	0,5	0,50	Code quality
The ____ attribute is unnecessary for JavaScript resources.	Warning	1	1	1,00	
Section lacks heading. Consider using ____ elements to add identifying headings to all sections, or else use a ____ element instead for any cases where no heading is needed.	Warning	1	1	1,00	
Possible misuse of aria-label. (If you disagree with this warning, file an issue report or send e-mail to www-validator@w3.org .)	Warning	1	1	1,00	

Attribute ____ is not serializable as XML 1.0.	Warning	1	0,5	0,50	
The ____ role is unnecessary for element ____.	Warning	1	3	3,00	
Bad value ____ for the attribute ____ (only ____ permitted here).	Error	4	3	12,00	
____ in an unquoted attribute value. Probable causes: Attributes running together or a URL query string in an unquoted attribute value	Error	4	1	4,00	
Quote __ in attribute name. Probable cause: Matching quote missing somewhere earlier	Error	4	1	4,00	
Attribute value missing.	Error	4	3	12,00	RGAA
Bad value __ for attribute __ on element __ An ID must not be the empty string.	Error	4	3	12,00	RGAA
Duplicate ID ____	Error	4	3	12,00	RGAA

The __ attribute must point to an element in the same document.	Error	4	3	12,00	RGAA
The first occurrence of ID ____ was here	Warning	1	1	1,00	RGAA
Stray end tag ____.	Error	4	2	8,00	
A document must not include both a __ element with an ____ attribute whose value is____, and a ____ element with a ____ attribute.	Error	4	1	4,00	
An __ element with a __ attribute whose value is __ must not have an __ attribute whose value is __or __.	Error	4	3	12,00	RGAA
The __ attribute is obsolete. Consider putting an __ attribute on the nearest container instead.	Warning	1	1	1,00	
X-UA-Compatible HTTP header must have the value IE=edge, was IE=edge,chrome=1	Error	4	1	4,00	
No space between attributes.	Error	4	1	4,00	

An element with ____ must be contained in, or owned by, an element with ____ or ____.	Error	4	3	12,00	
Duplicate attribute ____.	Error	4	1	4,00	
Bad character __ after __. Probable cause: Unescaped __. Try escaping it as ____.	Error	4	1	4,00	Code quality
Empty heading	warning	1	3	3,00	RGAA
Legacy encoding ____ used. Documents must use _____,	Error	4	1	4,00	
Consider adding a __ attribute to the __ start tag to declare the language of this document.	warning	1	3	3,00	RGAA
When the __ attribute has any image candidate string with a width descriptor, the __ attribute must also be specified	Error	4	1	4,00	
CSS: ____: only ____ can be a ____. You must put a unit after your number.	Error	4	1	4,00	
	Error	4	1	4,00	
CSS: Unknown pseudo-element or pseudo-class _____	Error	4	1	4,00	