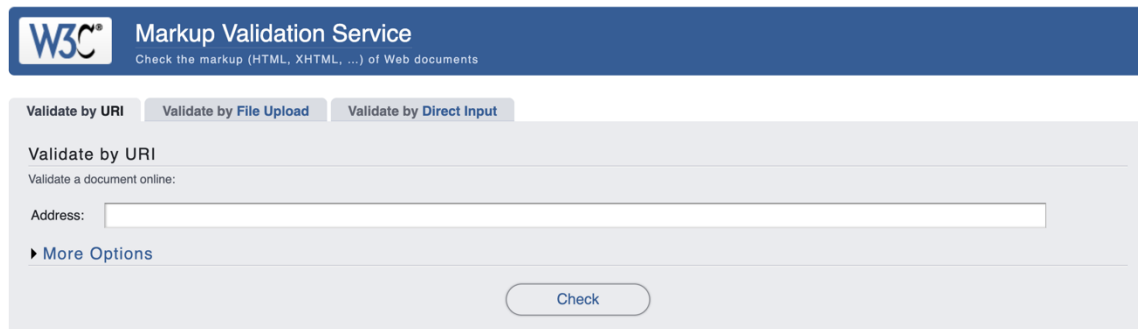


TEST 1.

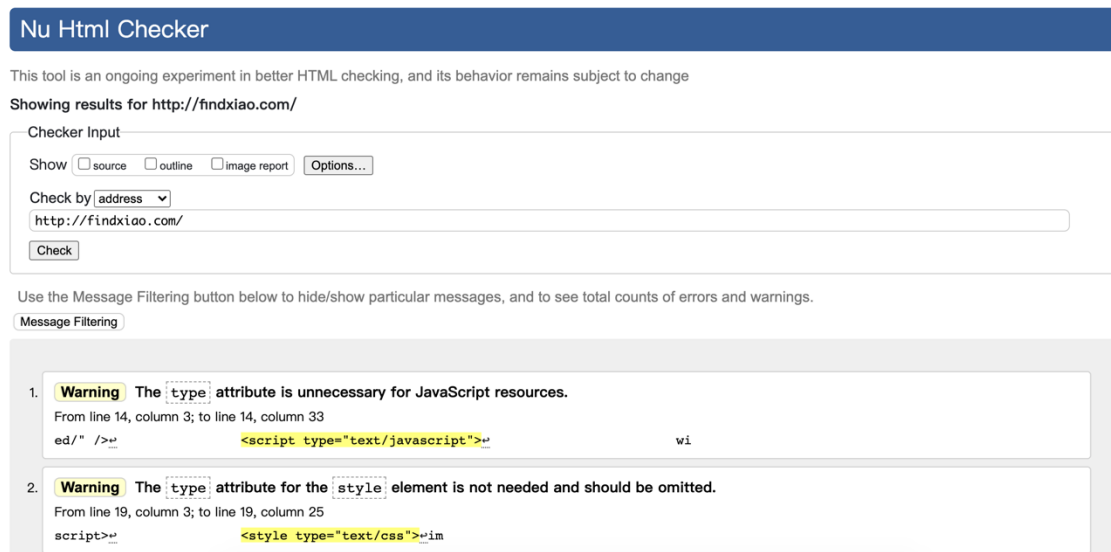
The first website that I test is: www.findxiao.com, which is my blog.

I used Web Validation Service. Retrieved from <https://validator.w3.org/>



The screenshot shows the W3C Markup Validation Service interface. At the top, there's a blue header with the W3C logo and the text "Markup Validation Service" and "Check the markup (HTML, XHTML, ...) of Web documents". Below this, there are three tabs: "Validate by URI", "Validate by File Upload", and "Validate by Direct Input". The "Validate by URI" tab is selected. Under this tab, there's a section "Validate by URI" with the instruction "Validate a document online:". Below this, there's a text input field labeled "Address:" and a "Check" button. There's also a link "More Options" and a "Check" button at the bottom right.

After I search for that website, I got the analysis as follows:

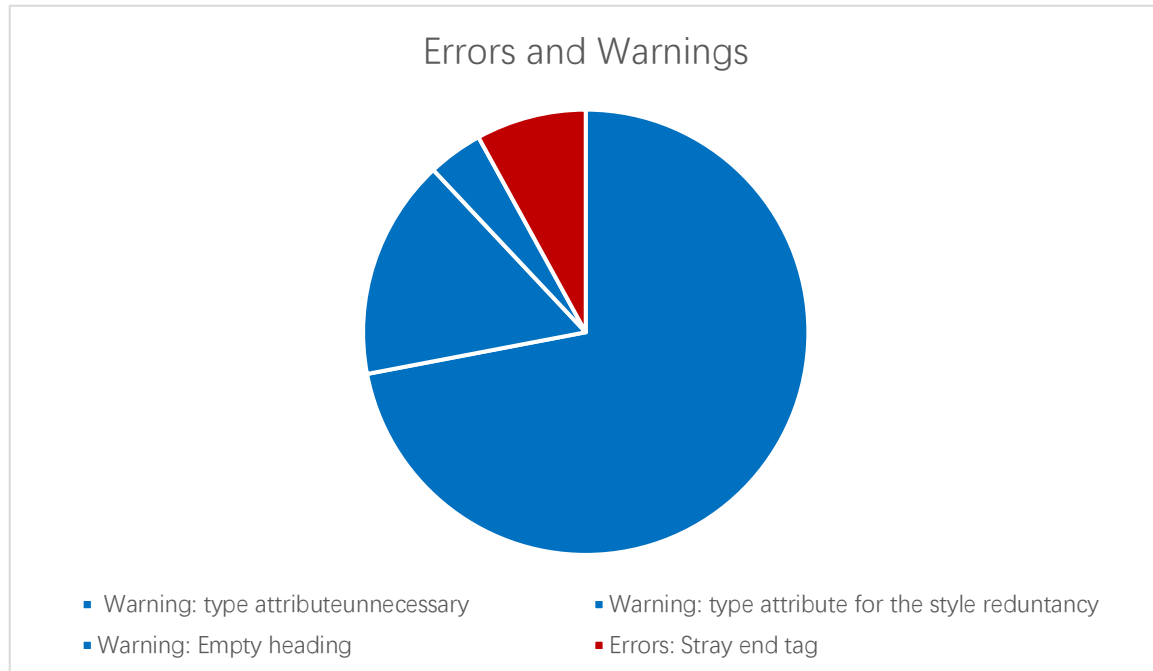


The screenshot shows the Nu Html Checker interface. At the top, there's a blue header with the text "Nu Html Checker". Below this, there's a paragraph: "This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change". Then, it says "Showing results for <http://findxiao.com/>". Below this, there's a section "Checker Input" with a "Show" dropdown menu (options: source, outline, image report, Options...) and a "Check by" dropdown menu (options: address, file, text). The "address" option is selected, and the input field contains "http://findxiao.com/". There's a "Check" button. Below this, there's a section "Message Filtering" with a "Message Filtering" button. Below this, there's a list of messages. The first message is a "Warning" stating: "The 'type' attribute is unnecessary for JavaScript resources." It shows the code snippet: "ed/" />" and "<script type='text/javascript'>" with a "wi" label. The second message is a "Warning" stating: "The 'type' attribute for the 'style' element is not needed and should be omitted." It shows the code snippet: "script>" and "<style type='text/css'>" with an "im" label.

There are in all 23 Warnings and 2 Errors.

- **Errors:**
Stray end tag a : 2
- **Warnings:**
 - 1) The type attribute is unnecessary for JavaScript resources: 18
 - 2) The type attribute for the style element is not needed and should be omitted : 4
 - 3) Empty heading : 1

Here is the illustration:



What works well on this site? What could be improved?

• Errors:

We got two errors in the same type which is *Stray end tag a* :

And from the validation tool, we can find that the problem is from:

10. **Error** Stray end tag `a`.
 From line 267, column 112; to line 267, column 115

```
hang) </a> </a>Anther
```
11. **Error** Stray end tag `a`.
 From line 267, column 252; to line 267, column 255

```
and Civil》</a> </div>
```

We should remove the ``, as it's not needed for the `<a>` tag. Because just that an end tag is not allowed in the context [1].

- **Warnings:**

For the 1), 2) **warning**, however they are in the same category: *The type attribute is unnecessary.*

Warning The `type` attribute is unnecessary for JavaScript resources.

From line 281, column 1; to line 281, column 31

```
fect --><<script type='text/javascript'> /* <!
```

Warning The `type` attribute for the `style` element is not needed and should be omitted.

From line 19, column 3; to line 19, column 25

```
script><<style type="text/css">im
```

This is because the “type” attribute for the “style” element is not needed and should be omitted in the new release of grammar rules.

Although previously it is an optional attribute and it can work now, but currently we need to get rid of this old behavior and delete “type” as well.

Another 3) **problem** is the **Empty heading** :

Warning Empty heading.

From line 100, column 6; to line 100, column 28

```
ng"><<h1 class="site-title"><a href
```

After investigation, we can find that: this is because we have a heading tag (`<hN>`) that doesn't have any content associated with it. Heading tags are intended to mean "this is what this bit of content is about"[2]. Here, we need to stop using heading tag.

TEST 2.

The second website that I test is: www.robertzhangxiao.com, which is my portfolio website.

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://robertzhangxiao.com/>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by address

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

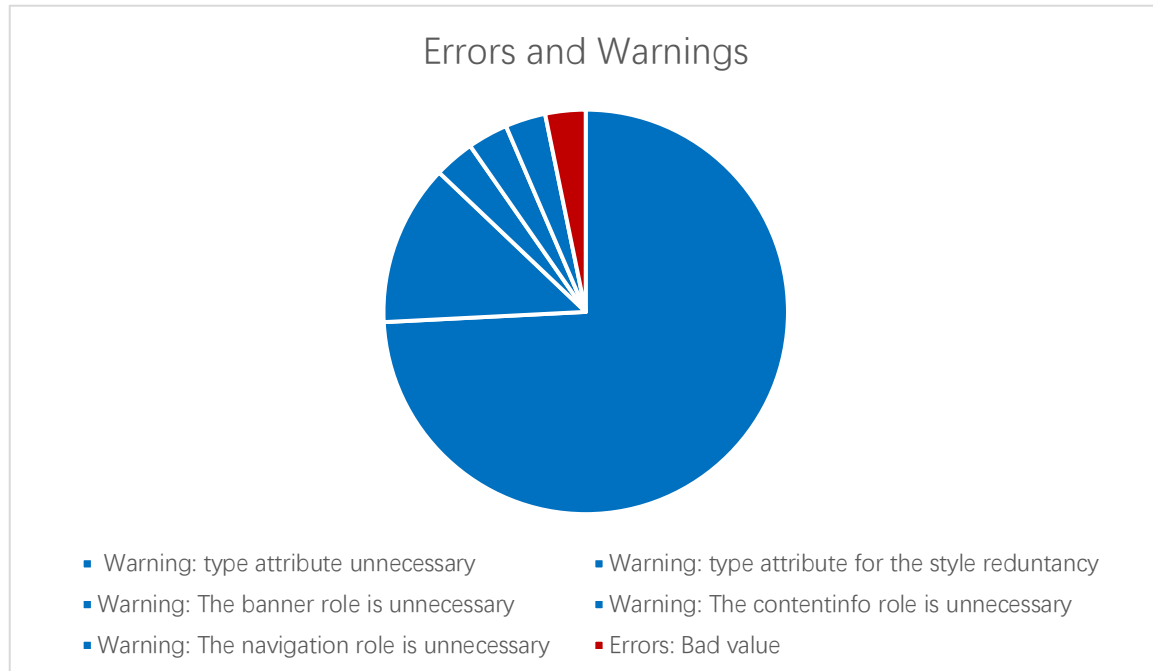
1. **Warning** The `type` attribute is unnecessary for JavaScript resources.
From line 14, column 3; to line 14, column 33
ed/" /> `<script type="text/javascript">` wi

2. **Warning** The `type` attribute for the `style` element is not needed and should be omitted.
From line 19, column 3; to line 19, column 25
script> `<style type="text/css">`img.w

There are in all 30 Warnings and 1 Error.

- **Error:**
Bad value : 1
- **Warnings:**
 - 1) The type attribute is unnecessary for JavaScript resources: **23**
 - 2) The type attribute for the style element is not needed and should be omitted : **4**
 - 3) The banner role is unnecessary : **1**
 - 4) The navigation role is unnecessary : **1**
 - 5) The contentinfo role is unnecessary: **1**

Here is the illustration:



What works well on this site? What could be improved?

• Error:

Error Bad value `//fonts.geekzu.org/css?`
`family=Montserrat%3Aregular%2C600%2C700|Open+Sans%3Aregular%2Citalic%2C300%2C600%2C700%2C800%26subset%3Dlatin%2C` for
 attribute `href` on element `link`: Illegal character in query: `%` is not allowed.
 From line 50, column 1; to line 50, column 242
`= 'all' /><link rel='stylesheet' id='citylogic_customizer_theme_fonts-css' href='//fonts.geekzu.org/css?famil...`
`ns%3Aregular%2Citalic%2C300%2C600%2C700%2C800%26subset%3Dlatin%2C' type='text/css' media='screen' /><link`

We got one bad value in our error: since

`//fonts.geekzu.org/css?famil...ns%3Aregular%2Citalic%2C300%2C600%2C700%2C800%26subset%3Dlatin%2C` is not follow valid URL standard after we tested.

In order to solve this problem, we need to run this URL through a [URL encoder](#) [3].

Here we can get the output here:

`fonts.geekzu.org%2Fcss%3Ffamil%E2%80%A6ns%253Aregular%252Citalic%252C300%252C600%252C700%252C800%2526subset%253Dlatin%252C`

From line 1114, column 1; to line 1114, column 61

still just like the 4) problem, another redundant information through the HTML5 [6], and we need to delete that.

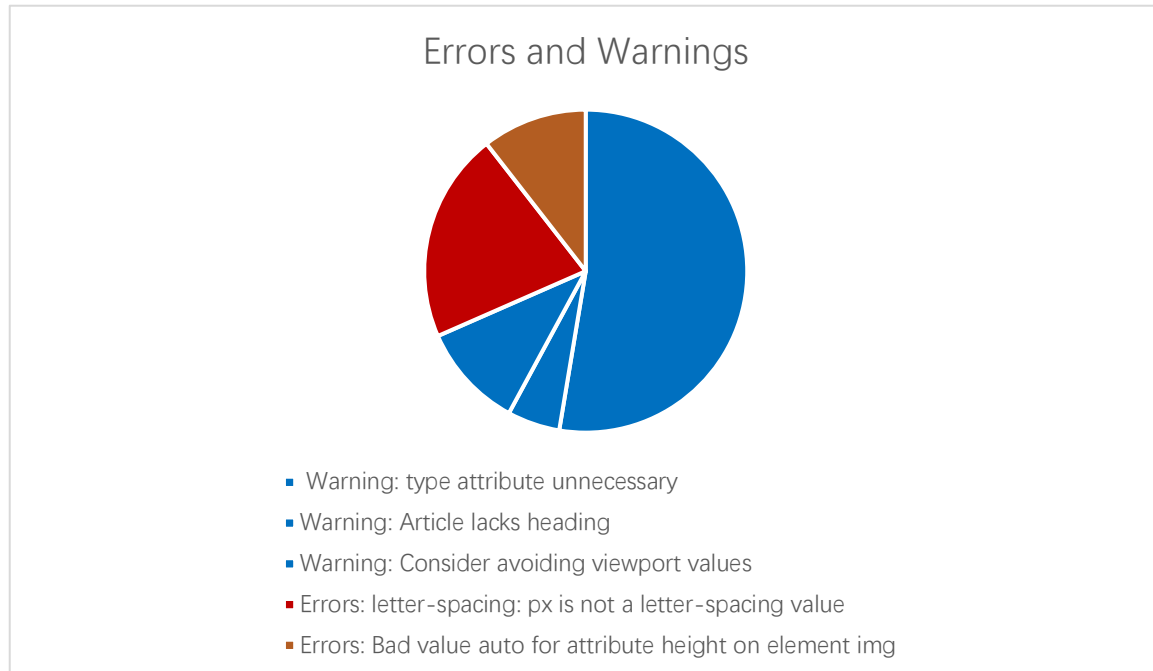
The second website that I test is: www.montamnis.com, which is my company's website.

There are in all 13 Warnings and 6 Errors.

- 1) CSS: letter-spacing: px is not a letter-spacing value : **4**
- 2) Bad value auto for attribute height on element img: Expected a digit but saw a instead: **2**

- 1) The type attribute is unnecessary for JavaScript resources: **10**
- 2) Consider avoiding viewport values that prevent users from resizing documents : **2**
- 3) Article lacks heading. Consider using h2-h6 elements to add identifying headings to all articles : **1**

Here is the illustration:



What works well on this site? What could be improved?

The warning 1) is covered in the previous tests.

2) Consider avoiding viewport values that prevent users from resizing documents

Warning Consider avoiding viewport values that prevent users from resizing documents.

From line 55, column 1; to line 55, column 108

```
<meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0, user-scalable=0" /><link
```

We need to remove "user-scalable=no" [7].

3) Article lacks heading.

Warning Article lacks heading. Consider using `h2`–`h6` elements to [add identifying headings to all articles](#).

From line 108, column 5; to line 108, column 79

```
<article id="post-85" class="post-85 page type-page status-publish
hentry">
```

Since in our article, it is not the nested section, we need to add `<h1>Some heading</h1>` here [8].

Reference:

[1] Retrieved from: <https://stackoverflow.com/questions/24116546/stray-end-tag-img>

[2] Retrieved from: <https://stackoverflow.com/questions/23739224/empty-heading-warning-on-html5-validation>

[3] Retrieved from: <https://stackoverflow.com/questions/32790918/w3c-validation-error-bad-value>

[4] Retrieved from: <https://stackoverflow.com/questions/59720091/remove-role-banner-from-html-of-react-component>

[5] Retrieved from: <https://stackoverflow.com/questions/37215883/why-i-cant-use-role-navigation-attribute-in-html-nav-tag>

[6] Retrieved from: <https://stackoverflow.com/questions/11191746/should-role-contentinfo-be-always-added-on-footer-element>

[7] Retrieved from: <https://stackoverflow.com/questions/49859228/w3c-dont-validate-viewport>

[8] Retrieved from: <https://stackoverflow.com/questions/35925867/warning-article-lacks-heading-consider-using-h2-h6-elements-to-add-identifying>