



Style Validator

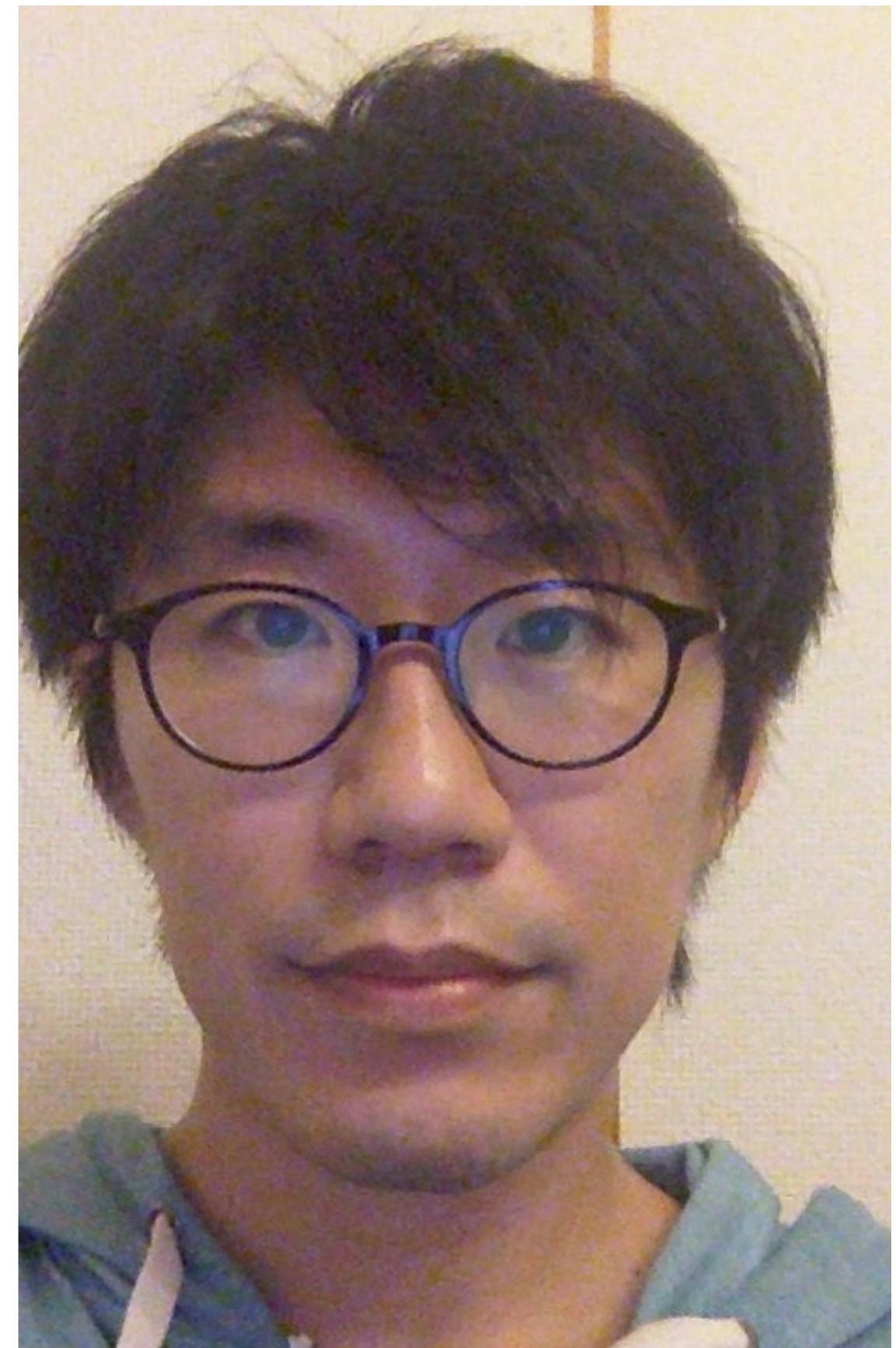
CSS Validation in the Browser

Igari Takeharu

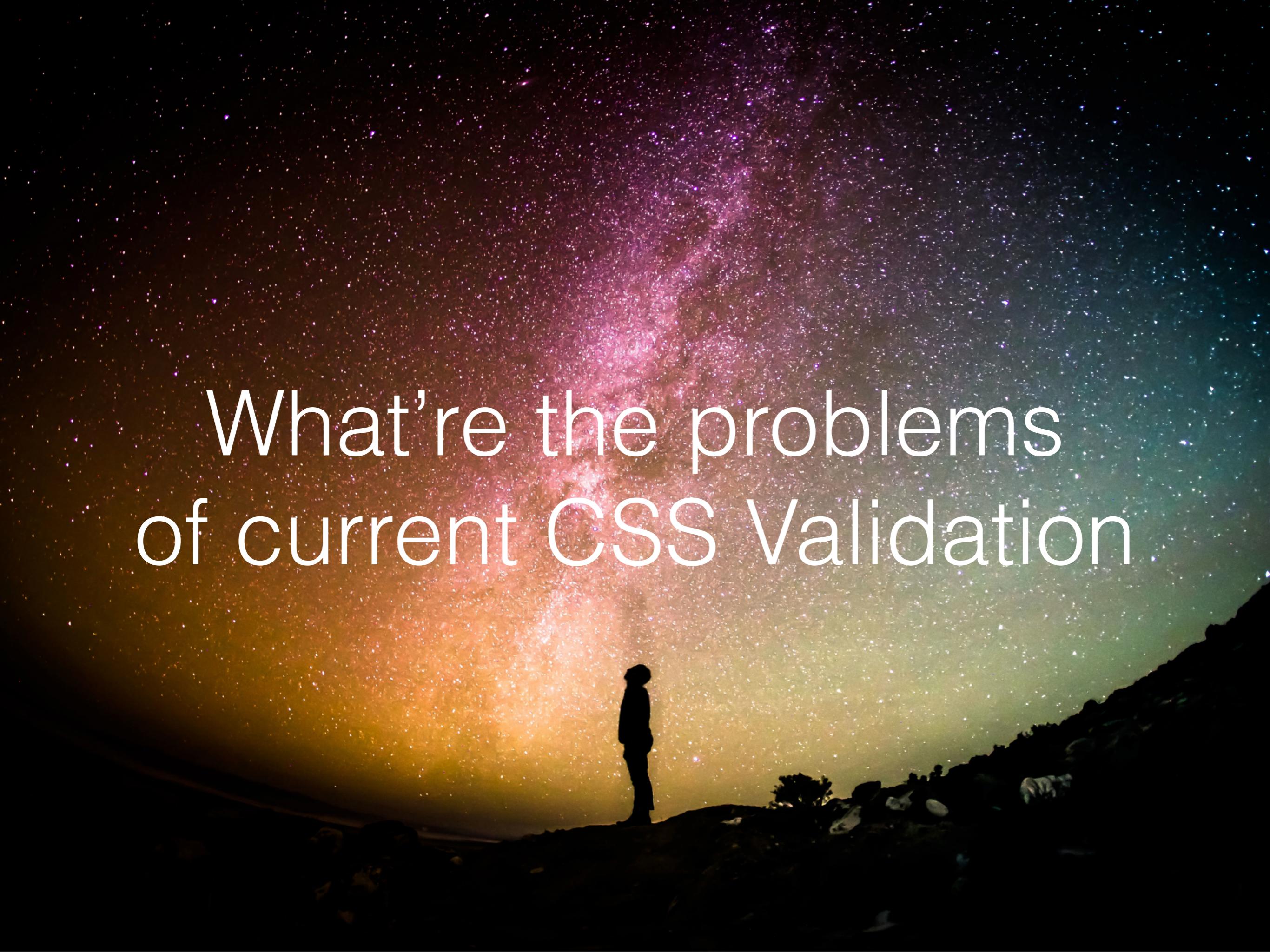


Takeharu Igari

- Front-end Engineer
(8years of carrier)
- Evangelist
- General Manager in
Vanguard Development
Division



I'm sorry that I can not listening english well

A photograph of a dark, rocky shoreline at night. The sky above is filled with numerous stars of varying brightness, creating a textured, celestial background. In the center-left foreground, the dark silhouette of a person stands facing away from the viewer, looking out over the water towards the horizon. The overall mood is contemplative and vast.

What're the problems
of current CSS Validation

Three problems of current CSS Validator

- Can't validate content that is modified by JavaScript
- Can't validate computed styles
- Can't validate matching of style and style for each HTML Tag

So, valid CSS is too complicated.



Deutsch English Español Français 한국어 Italiano Nederlands 日本語 Polski Português Русский فارسی Svenska Български Українська Čeština Romanian Magyar Ελληνικά हिन्दी 简体中文



The W3C CSS Validation Service

W3C CSS Validator results for <http://www.leihauoli.com> (CSS level 3)

Jump to: [Errors \(19\)](#) [Warnings \(54\)](#) [Validated CSS](#)

W3C CSS Validator results for <http://www.leihauoli.com> (CSS level 3)

Sorry! We found the following errors (19)

URI : <http://www.leihauoli.com/css/general.css>

391	.cf	Property zoom doesn't exist : 1
394	.pr	Parse Error *zoom: 1;
394	.pr	Parse Error }
406	.dib4b	Parse Error *display: inline;
406	*	Parse Error *zoom: 1;
406	*	Parse Error }
436	.zm1	Property zoom doesn't exist : 1
491	.b[data-text]:before	Value Error : content Parse Error attr(data-text)

URI : <http://www.leihauoli.com/css/common.css>

52		Unknown pseudo-element or pseudo-class ::selection [selection]
150	.bg-red	Property bordre-color doesn't exist : #ce5200
151	.bg-red-light	Property bordre-color doesn't exist : #f5d5b7



```
--- ----- -----
293     white-space: pre-wrap;
294     display: block;
295     float: none;
296     color: white;
297     margin-bottom: 10px;
298     padding: 1% 2%;
299     font-size: 12px;
300   }
301   [data-id*="error"]::after,
302   [data-id*="warning"]::after {
303     display: none;
304   }
305
306   [data-id*="error"] { border-left: 3px solid #EE363B; }
307   [data-id*="warning"] { border-left: 3px solid #F7BF00; }
308
309   [data-id*="error"]::before
310     content: '== ' attr(data-id) ' ==\A And if the following styles defined, alert as ERROR';
311     background-color: #EE363B;
312   }
313   [data-id*="warning"]::before {
314     content: '== ' attr(data-id) ' ==\A And if the following styles defined, alert as WARNING';
315     background-color: #F7BF00;
316   }
317   [data-id="reference-url"],
318   [data-id="reference-url"] input[type="text"] {
319     background-color: #EFEFEF;
320   }
321
322   .styles-input a {
323     display: flex;
324     justify-content: center;
325     flex-direction: column;
326     /* flex-shrink: 0; */
327     flex-basis: 60px;
328     align-items: center;
329   }
330   [data-id="title"] a {
331     display: none;
332     font-size: 12px;
333     /* padding-right: 5px; */
334     /* padding-left: 5px; */
335     /* position: absolute; */
```

What're invalid styles?

Case1-1: Needless Styles

- Q. What is value of display property of DIV element?

```
<div style="position: absolute; display: inline;"></div>
```

```
var div = document.querySelector('div');
getComputedStyle(div).getPropertyValue('display');
```

A. block

Case1-2: Needless Styles

- Q. What is value of display property of P element?

```
<div style="display: flex;">  
  <p style="display: table-cell;"></p>  
</div>
```

```
var p = document.querySelector('p');  
getComputedStyle(p).getPropertyValue('display');
```

A. block

Case1-3: Needless Styles

- Q. What is value of width property of span element?

```
<span style="width: 300px;">this is inline element.</span>
```

```
var span = document.querySelector('span');  
getComputedStyle(span).getPropertyValue('width');
```

A. auto

Case2-1: Risky Styles

- Q. Pseudo element into empty element is OK?

```

```

```
img::after {  
  content: url(fuga.jpg);  
}
```

A.No. this is Buggy.

Case2-2: Risky Styles

- Q. No parent table-cell is OK?

```
<div>
  <p style="display: table-cell;"></p>
</div>
```

A.No. this is Buggy

- Here is correct one.

```
<div style="display: table;">
  <p style="display: table-cell;"></p>
</div>
```

Case3-1: Mistake in Media Query

- No parent table-cell in Media Query

```
<div class="parent">  
  <p class="child"></p>  
</div>
```

```
.parent { display: table; }  
.child { display: table-cell; }  
  
@media (max-width: 640px) {  
  .parent { display: block; }  
}
```

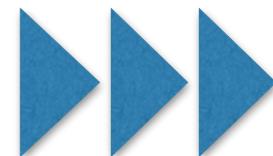
No parent table-cell...

Case3–2: Mistake after Javascript

- Before JavaScript

```
<div class="parent">  
  <p class="child"></p>  
</div>
```

```
.parent { display: table; }  
.child { display: table-cell; }
```



Case3–2: Mistake after Javascript

- After inserting DOM by JavaScript

```
var parent = document.querySelector('.parent');
var newChild = document.createElement('div');
newChild.style.display = "inline";
parent.appendChild(newChild);
```

```
<div class="parent">
  <p class="child"></p>
  <div style="display: inline;"></div>
</div>
```

Not table-cell in table...

Invalid styles give you...

- Meaningless patch
- Interrupting creative ideas
- Loss of valuable engineer's life

Solution



Style Validator

- Validation of computed style
- Validation of matching of style and style
- Validation of while tracking DOM modification.
(e.g. after modifying DOM by JavaScript)





Demonstration

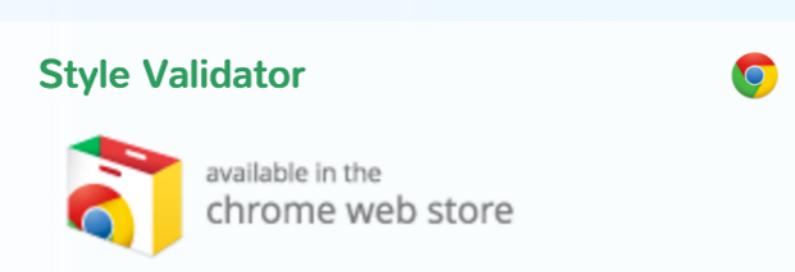


Introduction Page



"Validation in the Browser".
Style Validator is a new CSS
Validator that check
computedStyle NOT syntax.

Chrome Extension (for only chrome
browser)



JavaScript Bookmarklet



Demo Page



Validation Rules

The screenshot shows a browser window with the URL `stylev/Style-Validator/page/demo.html`. The page content includes instructions: "1. Open Chrome DevTools" and "2. Try [Chrome Extension](#) or Execute [Bookmarklet](#) on this page!". Below these are several error messages with red boxes around them:

- no parent table-cell
- no parent table-row
- no parent table-row
- [back to toppge](#), abbr

Further down, there's a list of element names highlighted with yellow boxes:

- address
- article
- aside
- b bdi bdo
- blockquote

At the bottom, a list of validation errors is shown:

Total: 37 / Error: 22 / warning: 15	X
<legena> display: block; display property or parent element is incorrect.(table)	stylev-51
<h1> display: inline; margin-top: 200px;	stylev-56
<h1> display: inline; margin-bottom: 21.44px;	stylev-56
<Empty Elements <hr> display: block; padding: 30px;	stylev-63
<i> display: inline; margin-top: 10px;	stylev-64
<Empty Elements display: inline-block; padding: 40px;	stylev-66
<input> display: block; vertical-align: top;	stylev-67
javascript: void(0); y of parent element is incorrect.(inline)	stylev-89

The right side of the screenshot shows the Chrome DevTools Elements tab. It displays the DOM structure of the page, with some nodes highlighted in gray. A detailed element inspection is shown for a `p` element, showing properties like `margin: 16`, `border: -`, `padding: -`, and a bounding box of `688 x 24`. The DevTools also shows the `Styles` tab with various CSS rules listed, and the `Properties` tab with specific property values. The bottom of the DevTools shows the console log with entries related to the validation process.

Demo Page

no parent table-cell
no parent table-row
no parent table-row

[back to toppgae.](#) abbr

address
article
aside
b bdi bdo

blockquote

CSS Rendering Validator	Total: 18 / Error: 9 / Warn: 9	X
! <html> display: block; vertical-align: bottom;	cssrv-0	
✗ <div> display: table-cell; display property of parent element is incorrect.(block)	cssrv-8	
✗ <p> display: table-row; margin: 16px 0px;	cssrv-9	
✗ <p> display: table-row; display property of parent element is incorrect.(block)	cssrv-9	
! <div> display: table-row-group; box-shadow: rgb(255, 0, 0) 0px 0px 20px 10px;	cssrv-10	
✗ <div> display: table-row-group; display property of parent element is incorrect.(block)	cssrv-10	
! <a> display: inline; line-height: 100px;	cssrv-11	

Elements >

```
<head data-cssrvid="cssrv-1" class="...</head>
<body data-cssrvid="cssrv-7" class="...>
<div style="display: table-cell;" data-
cssrvid="cssrv-8" class="cssrv-error cssrv-
selected">no parent table-cell</div>
<p style="display: table-row" data-cssrvid=
"cssrv-9" class="cssrv-error cssrv-error">no
parent table-row</p>
<div style="display: table-row-group; box-
shadow: 0 0 20px 10px red;" data-cssrvid=
"cssrv-10" class="cssrv-warn cssrv-error">no
parent table-row</div>
<a href=".index.html" style="line-height:
100px; vertical-align: middle; text-align:
center;" data-cssrvid="cssrv-11" class=
"cssrv-warn cssrv-warn">back to toppgae.</a>
<abbr data-cssrvid="cssrv-12" class="abbr">abbr</abbr>
<address data-cssrvid="cssrv-13" class="address">address</address>
<area data-cssrvid="cssrv-14" class="...>
<article style="vertical-align: top;" data-
cssrvid="cssrv-15" class="cssrv-
warn">article</article>
html.cssrv-warn body div.cssrv-error.cssrv-selected
```

Styles Event Listeners DOM Breakpoints Properties

Filter

```
element.style {
  display: table-cell;
}

.cssrv-
selected {
```

attention-style.css:64

order -
padding -
126 x 18

Week point

- By non-official specifications
- It is depend on work field engineer's knowledge.

Anybody can edit rules

 Validation Rules - View and Edit Add Rule Save

Inline Element

```
base-styles {  
    display : inline ;  
}
```

== warning-styles ==

And if the following styles defined, alert as
WARNING

or **width : non-default;**
or **height : non-default;**
or **min-width: non-default;**
or **min-height: non-default;**
or **max-width: non-default;**
or **max-height: non-default;**
or **margin-top: non-0 ;**
or **margin-bottom: non-0 ;**
or **padding-top: over-0 ;**
or **padding-bottom: over-0 ;**
or **float: non-default;**
or **text-align: non-inherit;**

Table Row Element

```
base-styles {  
    display : table-row ;  
}
```

== error-styles ==

And if the following styles defined, alert as
ERROR

or **margin : over-0 ;**
or **padding : over-0 ;**
or **border-width: over-0 ;**
or **position : non-default ;**

== warning-styles ==

And if the following styles defined, alert as
WARNING

or **box-shadow: non-default ;**
or **min-width: non-default ;**
or **min-height: non-default ;**
or **max-width: non-default ;**
or **max-height: non-default ;**

Table Column Element

```
base-styles {  
    display : table-column-group ;  
}
```

== error-styles ==

And if the following styles defined, alert as
ERROR

or **margin : over-0 ;**
or **position: non-default ;**

== warning-styles ==

And if the following styles defined, alert as
WARNING

or **padding : over-0 ;**
or **box-shadow : non-default ;**
or **min-width: non-default ;**
or **min-height: non-default ;**
or **max-width : non-default ;**
or **max-height: non-default ;**

A wide-angle photograph of a sunset over a coastal landscape. The sky is filled with dramatic, colorful clouds ranging from deep blues and purples at the top to bright orange and yellow near the horizon. The sun is partially visible, low on the horizon, casting a warm glow. Below, the ocean is a deep blue, with small waves reflecting the sunlight. In the foreground, dark silhouettes of rocky cliffs and vegetation are visible along the coastline. A single sailboat is positioned in the middle ground on the right side of the frame.

Next is

Open Source Project



- This will be a open source project soon.
- So, Please join as a Contributor
- Finally, I wish that the Style Validator helps work field engineer & CSS & Web.

Thanks for your patient!

- Please feel free to contact me
<https://www.facebook.com/IgariTakeharu>
- Official Website
<http://style-validator.github.io/Style-Validator>
- Github
<https://github.com/Style-Validator/>