



Style Validator

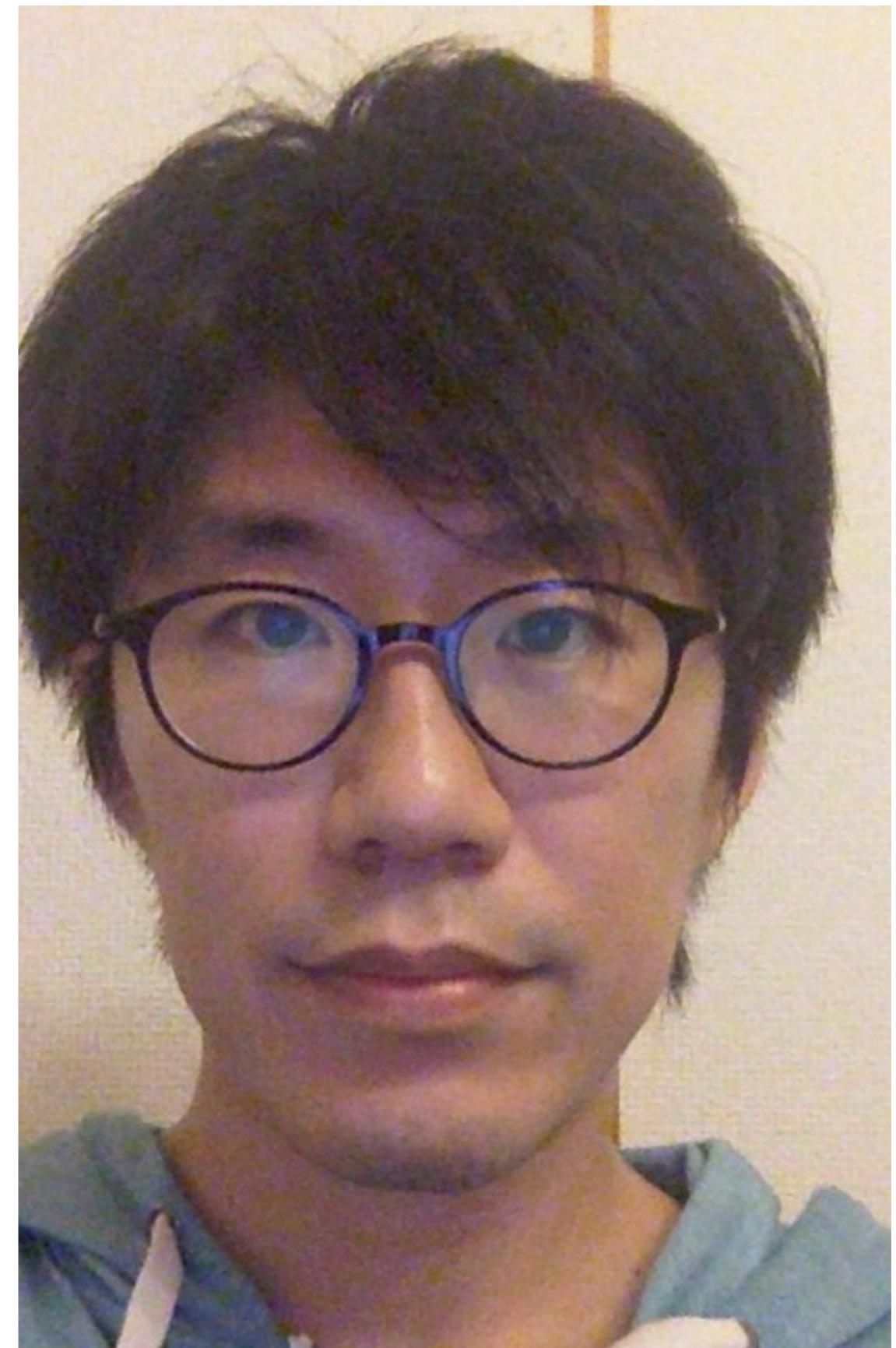
CSS Validation in the Browser

Igari Takeharu

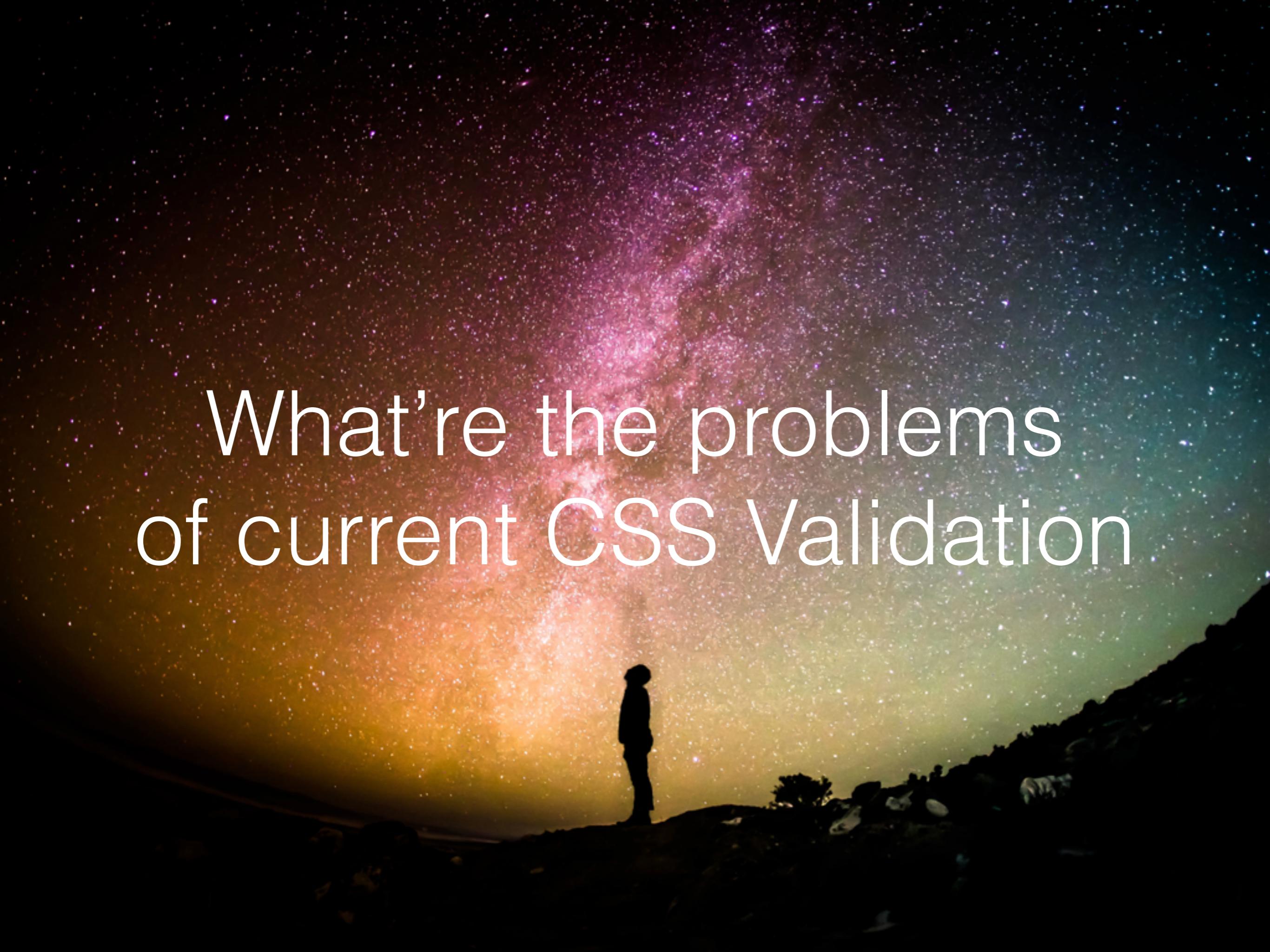


Takeharu Igari

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



I'm sorry that my english is not so well.

A silhouette of a person standing on a rocky shore at night, looking up at a starry sky. The sky has a vibrant, colorful gradient from purple to yellow. The text is overlaid on this image.

What're the problems
of current CSS Validation

The Issues 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 سوچي 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

- Pseudo element into empty element is OK?

```

```

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

A.No. this is Buggy.

Case2-2: Risky Styles

- 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; }  
}
```

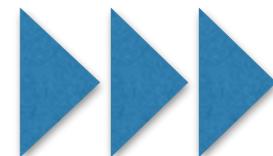
No parent table-cell...

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>
```

No parent table-cell...

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)

Style Validator



available in the
chrome web store

JavaScript Bookmarklet

Style Validator



The screenshot shows the Style Validator extension running in Google Chrome's DevTools. The main pane displays validation results for a file named 'demo.html'. It lists 37 errors and 15 warnings. Some examples of errors include:

- <h1> display: inline; margin-top: 200px; stylev-54
- <h1> display: inline; margin-bottom: 21.44px; stylev-56
- Empty Elements
 display: block; padding: 30px; stylev-63
-
 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); v of parent_element is incorrect (inline) stylev-89

The right side of the DevTools interface shows the DOM tree with nodes highlighted in red and yellow, and a preview panel showing a green-bordered box with dimensions 688x24 and a margin of 16px.

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 >

```
class="cssrv-warn">
  ▶ <head data-cssrvid="cssrv-1" class>...
  ▼ <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>
    <address data-cssrvid="cssrv-13" class>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

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;

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 calm sea. The sky is filled with horizontal clouds, transitioning from deep blue at the top to vibrant orange and yellow near the horizon. A small sailboat is visible on the right side of the frame. In the foreground, dark silhouettes of rocky cliffs are visible on both the left and right sides.

One more thing...

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!

If you have any question...

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