

CSS小实验：动手做，用代码挖掘CSS属性

2019-04-30 winter

《重学前端》

课程介绍 >



讲述：winter

时长 04:20 大小 3.98M



你好，我是 winter。

我们的课程中已经讲解了一部分 CSS 属性，但是 CSS 属性数量繁多，我们的课程只能覆盖其中一小部分，所以我设计了这个小实验，教你用代码挖掘 W3C 标准中的属性。

浏览器中已经实现的属性

首先我们来看看浏览器中实现了哪些属性。我们用一段代码来看一下。

```
1 Object.keys(document.body.style).filter(e => !e.match(/^webkit/))
```

复制代码



这段代码思路非常简单，就是枚举 document.body.style 上的所有属性，并且去掉 webkit 前缀的私有属性。

 复制代码

```
1 alignContent, alignItems, alignSelf, alignmentBaseline, all, animation, animation
```

数了一下，这里有 390 个属性，这非常壮观了，要想了解它们可不是一件容易的事情。接下来我们试着找到它们背后对应的标准。

小实验：找出 W3C 标准中的 CSS 属性

我们知道 CSS2.1 是一份标准，但是 CSS3 分布在无数标准中，我们需要用代码把它们整理出来，这就是我们今天的小实验内容了。

为了达到我们的目的，我们需要写一个简单的爬虫，来找一找 W3C 标准中都覆盖了哪些属性。

我们这个爬虫的思路是：用 iframe 来加载所有标准的网页，然后用 JavaScript 找出它们中间定义的属性。

第一步：找到 CSS 相关的标准。

我们来到 W3C 的 TR 页面：

- <https://www.w3.org/TR/?tag=css>

我们必须从这个页面里抓取所有的标准名称和链接，打开它的代码，我们会发现它是有规律的，这个页面由一个巨大的列表构成，我们只需要根据 tag 选取需要的标准即可。

 复制代码

```
1 document.querySelectorAll("#container li[data-tag~=css] h2:not(.Retired):not(.Gro
```

这段代码可以找到所有 CSS 相关的标准，我们用代码把从 HTML 结构中把它们抽取出来。可以得到一个列表。



| URL | title |
|---|---|
| https://www.w3.org/TR/2019/WD-css-lists-3-20190425/ | CSS Lists Module Level 3 |
| https://www.w3.org/TR/2019/WD-css-nav-1-20190423/ | CSS Spatial Navigation Level 1 |
| https://www.w3.org/TR/2019/NOTE-ttml-profile-registry-20190411/ | TTML Media Type Definition and Profile Registry |
| https://www.w3.org/TR/2019/CR-webvtt1-20190404/ | WebVTT: The Web Video Text Tracks Format |
| https://www.w3.org/TR/2019/NOTE-selectors-nonelement-1-20190402/ | Non-element Selectors Module Level 1 |
| https://www.w3.org/TR/2019/CR-css-scroll-snap-1-20190319/ | CSS Scroll Snap Module Level 1 |
| https://www.w3.org/TR/2019/WD-css-color-4-20190305/ | CSS Color Module Level 4 |
| https://www.w3.org/TR/2019/WD-css-pseudo-4-20190225/ | CSS Pseudo-Elements Module Level 4 |
| https://www.w3.org/TR/2019/CR-css-transforms-1-20190214/ | CSS Transforms Module Level 1 |
| https://www.w3.org/TR/2019/WD-css-values-4-20190131/ | CSS Values and Units Module Level 4 |
| https://www.w3.org/TR/2019/CR-css-values-3-20190131/ | CSS Values and Units Module Level 3 |
| https://www.w3.org/TR/2019/NOTE-css-2018-20190122/ | CSS Snapshot 2018 |
| https://www.w3.org/TR/2018/WD-clreq-20181220/ | Requirements for Chinese Text Layout 中文排版需求 |
| https://www.w3.org/TR/2018/WD-css-box-3-20181218/ | CSS Box Model Module Level 3 |
| https://www.w3.org/TR/2018/WD-css-break-4-20181218/ | CSS Fragmentation Module Level 4 |
| https://www.w3.org/TR/2018/WD-motion-1-20181218/ | Motion Path Module Level 1 |
| https://www.w3.org/TR/2018/WD-filter-effects-1-20181218/ | Filter Effects Module Level 1 |
| https://www.w3.org/TR/2018/WD-css-text-3-20181212/ | CSS Text Module Level 3 |
| https://www.w3.org/TR/2018/WD-css-align-3-20181206/ | CSS Box Alignment Module Level 3 |
| https://www.w3.org/TR/2018/CR-css-break-4-20181206/ | CSS Fragmentation Module Level 3 |



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<https://www.w3.org/TR/2018/CR-geometry-1-20181204/>

Geometry Interfaces Module Level 1

<https://www.w3.org/TR/2018/WD-selectors-4-20181121/>

Selectors Level 4

<https://www.w3.org/TR/2018/CR-css-flexbox-1-20181119/>

CSS Flexible Box Layout Module Level 1

<https://www.w3.org/TR/2018/WD-css-shadow-parts-1-20181115/>

CSS Shadow Parts

<https://www.w3.org/TR/2018/CR-css-contain-1-20181108/>

CSS Containment Module Level 1

<https://www.w3.org/TR/2018/REC-ttml2-20181108/>

Timed Text Markup Language 2 (TTML2)

<https://www.w3.org/TR/2018/REC-selectors-3-20181106/>

Selectors Level 3

<https://www.w3.org/TR/2018/WD-css-page-3-20181018/>

CSS Paged Media Module Level 3

<https://www.w3.org/TR/2018/WD-css-transitions-1-20181011/>

CSS Transitions

<https://www.w3.org/TR/2018/WD-web-animations-1-20181011/>

Web Animations

<https://www.w3.org/TR/2018/WD-css-animations-1-20181011/>

CSS Animations Level 1

<https://www.w3.org/TR/2018/WD-css-easing-1-20181009/>

CSS Easing Functions Level 1

<https://www.w3.org/TR/2018/WD-css-scrollbar-1-20180925/>

CSS Scrollbars Module Level 1

<https://www.w3.org/TR/2018/WD-css-text-4-20180920/>

CSS Text Module Level 4

<https://www.w3.org/TR/2018/REC-css-fonts-3-20180920/>

CSS Fonts Module Level 3

<https://www.w3.org/TR/2018/WD-css-fonts-4-20180920/>

CSS Fonts Module Level 4

<https://www.w3.org/TR/2018/SPSD-CSS1-20180913/>

Cascading Style Sheets, level 1

<https://www.w3.org/TR/2018/CR-css-cascade-4-20180828/>

CSS Cascading and Inheritance Level 4

<https://www.w3.org/TR/2018/CR-css-display-3-20180828/>

CSS Display Module Level 3

<https://www.w3.org/TR/2018/CR-css-cascade-3-20180828/>

CSS Cascading and Inheritance Level 3

<https://www.w3.org/TR/2018/WD-css-logical-1-20180827/>

CSS Logical Properties and Values Level 1



| | |
|---|---|
| https://www.w3.org/TR/2018/WD-css-paint-api-1-20180809/ | CSS Painting API Level 1 |
| https://www.w3.org/TR/2018/WD-css-inline-3-20180808/ | CSS Inline Layout Module Level 3 |
| https://www.w3.org/TR/2018/WD-css-grid-2-20180804/ | CSS Grid Layout Module Level 2 |
| https://www.w3.org/TR/2018/WD-css-overflow-3-20180731/ | CSS Overflow Module Level 3 |
| https://www.w3.org/TR/2018/CR-css-text-decor-3-20180703/ | CSS Text Decoration Module Level 3 |
| https://www.w3.org/TR/2018/REC-css-ui-3-20180621/ | CSS Basic User Interface Module Level 3 (CSS3 UI) |
| https://www.w3.org/TR/2018/REC-css-color-3-20180619/ | CSS Color Module Level 3 |
| https://www.w3.org/TR/2018/NOTE-css3-speech-20180605/ | CSS Speech Module |
| https://www.w3.org/TR/2018/WD-css-multicol-1-20180528/ | CSS Multi-column Layout Module Level 1 |
| https://www.w3.org/TR/2018/CR-css-writing-modes-3-20180524/ | CSS Writing Modes Level 3 |
| https://www.w3.org/TR/2018/CR-css-writing-modes-4-20180524/ | CSS Writing Modes Level 4 |
| https://www.w3.org/TR/2018/NOTE-matrix-20180412/ | DOMMatrix interface |
| https://www.w3.org/TR/2018/WD-css-layout-api-1-20180412/ | CSS Layout API Level 1 |
| https://www.w3.org/TR/2018/WD-css-typed-om-1-20180410/ | CSS Typed OM Level 1 |
| https://www.w3.org/TR/2018/CR-encoding-20180327/ | Encoding |
| https://www.w3.org/TR/2018/WD-css-text-decor-4-20180313/ | CSS Text Decoration Module Level 4 |
| https://www.w3.org/TR/2018/WD-css-sizing-3-20180304/ | CSS Intrinsic & Extrinsic Sizing Module Level 3 |
| https://www.w3.org/TR/2017/WD-css-ui-4-20171222/ | CSS Basic User Interface Module Level 4 |
| https://www.w3.org/TR/2017/CR-css-grid-1-20171214/ | CSS Grid Layout Module Level 1 |
| https://www.w3.org/TR/2017/CR-css-counter-styles-3-20171214/ | CSS Counter Styles Level 3 |
| https://www.w3.org/TR/2017/WD-css-properties-values-api-1-20171109/ | CSS Properties and Values API Level 1 |
| https://www.w3.org/TR/2017/CR-css- | |



| | |
|---|---|
| https://www.w3.org/TR/2017/CR-mediaqueries-4-20170905/ | Media Queries Level 4 |
| https://www.w3.org/TR/2017/WD-css-overflow-4-20170613/ | CSS Overflow Module Level 4 |
| https://www.w3.org/TR/2017/WD-css-images-4-20170413/ | CSS Image Values and Replaced Content Module Level 4 |
| https://www.w3.org/TR/2017/WD-fill-stroke-3-20170413/ | CSS Fill and Stroke Module Level 3 |
| https://www.w3.org/TR/2017/WD-css-tables-3-20170307/ | CSS Table Module Level 3 |
| https://www.w3.org/TR/2017/WD-css-rhythm-1-20170302/ | CSS Rhythmic Sizing |
| https://www.w3.org/TR/2017/NOTE-predefined-counter-styles-20170216/ | Ready-made Counter Styles |
| https://www.w3.org/TR/2017/NOTE-css-2017-20170131/ | CSS Snapshot 2017 |
| https://www.w3.org/TR/2016/WD-css-round-display-1-20161222/ | CSS Round Display Level 1 |
| https://www.w3.org/TR/2016/WD-elreq-20161115/ | Ethiopic Layout Requirements |
| http://www.w3.org/TR/2016/WD-worklets-1-20160607/ | Worklets Level 1 |
| http://www.w3.org/TR/2016/WD-css-content-3-20160602/ | CSS Generated Content Module Level 3 |
| http://www.w3.org/TR/2016/WD-css-position-3-20160517/ | CSS Positioned Layout Module Level 3 |
| http://www.w3.org/TR/2016/WD-CSS22-20160412/ | Cascading Style Sheets Level 2 Revision 2 (CSS 2.2) Specification |
| http://www.w3.org/TR/2016/WD-css-device-adapt-1-20160329/ | CSS Device Adaptation Module Level 1 |
| http://www.w3.org/TR/2016/WD-cssom-view-1-20160317/ | CSSOM View Module |
| http://www.w3.org/TR/2016/WD-cssom-1-20160317/ | CSS Object Model (CSSOM) |
| http://www.w3.org/TR/2015/CR-css-variables-1-20151203/ | CSS Custom Properties for Cascading Variables Module Level 1 |
| http://www.w3.org/TR/2015/CR-css-will-change-1-20151203/ | CSS Will Change Module Level 1 |
| http://www.w3.org/TR/2015/NOTE-css-2015-20151013/ | CSS Snapshot 2015 |
| http://www.w3.org/TR/2015/WD-css-page-floats-2-20150915/ | CSS Page Floats |



| | |
|---|---|
| http://www.w3.org/TR/2015/WD-dpub-css-priorities-20150820/ | Priorities for CSS from the Digital Publishing Interest Group |
| http://www.w3.org/TR/2015/WD-klreq-20150723/ | Requirements for Hangul Text Layout and Typography 한국어 텍스트 레이아웃 및 타이포그래피를 위한 요구사항 |
| http://www.w3.org/TR/2015/NOTE-css-template-3-20150326/ | CSS Template Layout Module |
| http://www.w3.org/TR/2015/WD-css3-exclusions-20150115/ | CSS Exclusions Module Level 1 |
| http://www.w3.org/TR/2015/CR-compositing-1-20150113/ | Compositing and Blending Level 1 |
| http://www.w3.org/TR/2014/NOTE-fullscreen-20141118/ | Fullscreen |
| http://www.w3.org/TR/2014/NOTE-css3-marquee-20141014/ | CSS Marquee Module Level 3 |
| http://www.w3.org/TR/2014/NOTE-css-tv-20141014/ | CSS TV Profile 1.0 |
| http://www.w3.org/TR/2014/NOTE-css3-preslev-20141014/ | CSS Presentation Levels Module |
| http://www.w3.org/TR/2014/NOTE-css-mobile-20141014/ | CSS Mobile Profile 2.0 |
| http://www.w3.org/TR/2014/NOTE-css3-hyperlinks-20141014/ | CSS3 Hyperlink Presentation Module |
| http://www.w3.org/TR/2014/NOTE-css3-reader-20141014/ | The CSS 'Reader' Media Type |
| http://www.w3.org/TR/2014/NOTE-beccss-20141014/ | Behavioral Extensions to CSS |
| http://www.w3.org/TR/2014/WD-css-regions-1-20141009/ | CSS Regions Module Level 1 |
| http://www.w3.org/TR/2014/WD-css-line-grid-1-20140916/ | CSS Line Grid Module Level 1 |
| http://www.w3.org/TR/2014/CR-css-masking-1-20140826/ | CSS Masking Module Level 1 |
| http://www.w3.org/TR/2014/WD-css-ruby-1-20140805/ | CSS Ruby Layout Module Level 1 |
| http://www.w3.org/TR/2014/WD-css-font-loading-3-20140522/ | CSS Font Loading Module Level 3 |
| http://www.w3.org/TR/2014/WD-css-gcpm-3-20140513/ | CSS Generated Content for Paged Media Module |
| http://www.w3.org/TR/2014/WD-svg-integration-20140417/ | SVG Integration |
| http://www.w3.org/TR/2014/WD-css-scoping-1-20140403/ | CSS Scoping Module Level 1 |



第二步：分析每个标准中的 CSS 属性

得到了这个标准的列表，下一步我们就是分析每个标准中的 CSS 属性。

我们打开第一个标准，试着找出属性定义：

- <https://www.w3.org/TR/2019/WD-css-lists-3-20190425/>

经过分析，我们会发现，属性总是在一个具有 propdef 的容器中，有属性 data-dfn-type 值为 property。

这里我不得不感慨，W3C 的标准写得真的是十分严谨，这给我们带来了很大的方便。我们用以下代码获取属性：

```
1 document.querySelectorAll(".propdef [data-dfn-type=property]")
```

 复制代码


对于第一个标准 CSS Lists Module Level 3 得到了这个列表：

```
1 list-style-image
2 list-style-type
3 list-style-position
4 list-style
5 marker-side
6 counter-reset
7 counter-set
8 counter-increment
```

 复制代码

好了，接下来，我们来用 iframe 打开这些标准，并且用我们分析好的规则，来找出里面的属性就可以了。最终成品代码如下：

```
1
2 var iframe = document.createElement("iframe");
```

 复制代码



```

3
4 document.body.appendChild(iframe);
5
6 iframe.src = "https://www.w3.org/TR/2019/WD-css-lists-3-20190425/"
7
8 function happen(element, type){
9     return new Promise(resolve => {
10         element.addEventListener(type, resolve, {once: true})
11     })
12 }
13
14 happen(iframe, "load").then(function(){
15     //Array.prototype.map.call(document.querySelectorAll("#container li[data-tag~c
16     console.log(iframe.contentWindow);
17 })
18 async function start(){
19     var output = []
20     for(let standard of Array.prototype.slice.call(document.querySelectorAll("#con
21         console.log(standard.children[0].href);
22         iframe.src = standard.children[0].href;
23         await happen(iframe, "load");
24         var properties = Array.prototype.map.call(iframe.contentWindow.document.query
25         if(properties.length)
26             output.push(standard.children[0].textContent + " | " + properties.join(",
27     }
28     console.log(output.join("\n"))
29 }
30 start();

```

这样，我们就得到了每个属性属于哪个标准，我们来看看最终结果。我把它整理成了一个列表。

(图片较大，请等待加载。)

| standard | properties |
|--------------------------------|--|
| CSS Lists Module Level 3 | list-style-image, list-style-type, list-style-position, list-style, marker-side, counter-reset, counter-set, counter-increment |
| CSS Spatial Navigation Level 1 | spatial-navigation-contain, spatial-navigation-action |
| CSS Scroll Snap Module Level 1 | scroll-snap-type, scroll-padding, scroll-margin, scroll- |



| | |
|----------------------------------|---|
| | snap-align, snap-stop, scroll-padding-top, scroll-padding-right, scroll-padding-bottom, scroll-padding-left, scroll-padding-inline-start, scroll-padding-block-start, scroll-padding-inline-end, scroll-padding-block-end, scroll-padding-block, scroll-padding-inline, scroll-margin-top, scroll-margin-right, scroll-margin-bottom, scroll-margin-left, scroll-margin-block-start, scroll-margin-inline-start, scroll-margin-block-end, scroll-margin-inline-end, scroll-margin-block, scroll-margin-inline |
| CSS Color Module Level 4 | color, opacity, color-adjust |
| CSS Transforms Module Level 1 | transform, transform-origin, transform-box |
| CSS Box Model Module Level 3 | margin-top, margin-right, margin-bottom, margin-left, margin, margin-trim, padding-top, padding-right, padding-bottom, padding-left, padding |
| CSS Fragmentation Module Level 4 | break-before, break-after, break-inside, orphans, widows, margin-break, box-decoration-break |
| Motion Path Module Level 1 | offset-path, offset-distance, offset-position, offset-anchor, offset-rotate, offset |
| Filter Effects Module Level 1 | filter, flood-color, flood-opacity, color-interpolation-filters, lighting-color |
| CSS Text Module Level 3 | text-transform, white-space, tab-size, word-break, line-break, hyphens, overflow- |



| | |
|--|--|
| | wrap, word-wrap, text-align, text-align-all, text-align-last, text-justify, word-spacing, letter-spacing, text-indent, hanging-punctuation |
| CSS Box Alignment Module Level 3 | align-content, justify-content, place-content, justify-self, align-self, place-self, justify-items, align-items, place-items, row-gap, column-gap, gap |
| CSS Fragmentation Module Level 3 | break-before, break-after, break-inside, orphans, widows, box-decoration-break |
| CSS Flexible Box Layout Module Level 1 | flex-direction, flex-wrap, flex-flow, order, flex, flex-grow, flex-shrink, flex-basis, justify-content, align-items, align-self, align-content |
| CSS Containment Module Level 1 | contain |
| CSS Paged Media Module Level 3 | page |
| CSS Transitions | transition-property, transition-duration, transition-timing-function, transition-delay, transition |
| CSS Animations Level 1 | animation-name, animation-duration, animation-timing-function, animation-iteration-count, animation-direction, animation-play-state, animation-delay, animation-fill-mode, animation |
| CSS Scrollbars Module Level 1 | scrollbar-color, scrollbar-width |
| CSS Text Module Level 4 | text-space-collapse, text-space-trim, text-wrap, wrap-before, wrap-after, wrap-inside, white-space, hyphenate-character, |



| | |
|---|--|
| | hyphenate-limit-zone, hyphenate-limit-chars, hyphenate-limit-lines, hyphenate-limit-last, text-group-align, line-padding, text-spacing |
| CSS Fonts Module Level 4 | font-family, font-weight, font-stretch, font-style, font-size, font-min-size, font-max-size, font-size-adjust, font, font-synthesis-weight, font-synthesis-style, font-synthesis-small-caps, font-synthesis, font-variant-alternates, font-language-override, font-optical-sizing, font-variation-settings, font-palette, font-variant-emoji |
| CSS Cascading and Inheritance Level 4 | all |
| CSS Display Module Level 3 | display |
| CSS Cascading and Inheritance Level 3 | all |
| CSS Logical Properties and Values Level 1 | block-size, inline-size, min-block-size, min-inline-size, max-block-size, max-inline-size, margin-block-start, margin-block-end, margin-inline-start, margin-inline-end, margin-block, margin-inline, inset-block-start, inset-block-end, inset-inline-start, inset-inline-end, inset-block, inset-inline, inset, padding-block-start, padding-block-end, padding-inline-start, padding-inline-end, padding-block, padding-inline, border-block-start-width, border-block-end-width, border-inline-start-width, border-inline-end- |



| | |
|---|---|
| | width, border-block-width, border-inline-width, border-block-start-style, border-block-end-style, border-inline-start-style, border-inline-end-style, border-block-style, border-inline-style, border-block-start-color, border-block-end-color, border-inline-start-color, border-inline-end-color, border-block-color, border-inline-color, border-block-start, border-block-end, border-inline-start, border-inline-end, border-block, border-inline, border-start-start-radius, border-start-end-radius, border-end-start-radius, border-end-end-radius |
| CSS Inline Layout Module Level 3 | dominant-baseline, vertical-align, alignment-baseline, baseline-shift, inline-sizing, initial-letters, initial-letters-align, initial-letters-wrap |
| CSS Overflow Module Level 3 | overflow-x, overflow-y, overflow, overflow-inline, overflow-block, text-overflow, block-overflow, line-clamp, max-lines, continue |
| CSS Text Decoration Module Level 3 | text-decoration-line, text-decoration-style, text-decoration-color, text-decoration, text-underline-position, text-emphasis-style, text-emphasis-color, text-emphasis, text-emphasis-position, text-shadow |
| CSS Basic User Interface Module Level 3 (CSS3 UI) | box-sizing, outline, outline-width, outline-style, outline-color, outline-offset, resize, |



| | |
|---|--|
| | text-overflow, cursor, caret-color |
| CSS Multi-column Layout Module Level 1 | column-width, column-count, columns, column-gap, column-rule-color, column-rule-style, column-rule-width, column-rule, column-span, column-fill |
| CSS Writing Modes Level 3 | direction, unicode-bidi, writing-mode, text-orientation, glyph-orientation-vertical, text-combine-upright |
| CSS Writing Modes Level 4 | direction, unicode-bidi, writing-mode, text-orientation, glyph-orientation-vertical, text-combine-upright |
| CSS Text Decoration Module Level 4 | text-decoration-width, text-underline-offset, text-decoration-skip, text-decoration-skip-ink, text-emphasis-skip |
| CSS Intrinsic & Extrinsic Sizing Module Level 3 | width, height, min-width, min-height, max-width, max-height, box-sizing |
| CSS Basic User Interface Module Level 4 | box-sizing, outline, outline-width, outline-style, outline-color, outline-offset, resize, text-overflow, cursor, caret-color, caret-shape, caret, nav-up, nav-right, nav-down, nav-left, user-select, appearance |
| CSS Grid Layout Module Level 1 | grid-template-columns, grid-template-rows, grid-template-areas, grid-template, grid-auto-columns, grid-auto-rows, grid-auto-flow, grid, grid-row-start, grid-column-start, grid-row-end, grid-column-end, grid-row, grid-column, grid-area |



CSS Backgrounds and Borders Module Level 3

background-color,
background-image,
background-repeat,
background-attachment,
background-position,
background-clip, background-
origin, background-size,
background, border-top-color,
border-right-color, border-
bottom-color, border-left-
color, border-color, border-
top-style, border-right-style,
border-bottom-style, border-
left-style, border-style,
border-top-width, border-
right-width, border-bottom-
width, border-left-width,
border-width, border-top,
border-right, border-bottom,
border-left, border, border-
top-left-radius, border-top-
right-radius, border-bottom-
right-radius, border-bottom-
left-radius, border-radius,
border-image-source, border-
image-slice, border-image-
width, border-image-outset,
border-image-repeat, border-
image, box-shadow

CSS Overflow Module Level 4

scrollbar-gutter, continue,
max-lines

CSS Image Values and Replaced Content Module Level 4

image-resolution

CSS Fill and Stroke Module Level 3

fill-rule, fill-break, fill-color,
fill-image, fill-origin, fill-
position, fill-size, fill-repeat,
fill, fill-opacity, stroke-width,
stroke-align, stroke-linecap,
stroke-linejoin, stroke-
miterlimit, stroke-break,
stroke-dasharray, stroke-



| | |
|---|--|
| | dash-offset, stroke-dash-corner, stroke-dash-justify, stroke-color, stroke-image, stroke-origin, stroke-position, stroke-size, stroke-repeat, stroke, stroke-opacity |
| CSS Table Module Level 3 | table-layout, border-collapse, border-spacing, caption-side, empty-cells |
| CSS Rhythmic Sizing | line-height-step, block-step-size, block-step-insert, block-step-align, block-step-round, block-step |
| CSS Round Display Level 1 | shape-inside, border-boundary |
| CSS Generated Content Module Level 3 | content, quotes, string-set, bookmark-level, bookmark-label, bookmark-state |
| CSS Positioned Layout Module Level 3 | position, top, right, bottom, left, offset-before, offset-after, offset-start, offset-end, z-index |
| CSSOM View Module | scroll-behavior |
| CSS Custom Properties for Cascading Variables Module Level 1 | --* |
| CSS Will Change Module Level 1 | will-change |
| CSS Page Floats | float-reference, float, clear, float-defer, float-offset |
| Priorities for CSS from the Digital Publishing Interest Group | hyphenate-patterns, min-length-of-last-line, merge-sequential-page-numbers |
| CSS Exclusions Module Level 1 | wrap-flow, wrap-through |
| Compositing and Blending Level 1 | mix-blend-mode, isolation, background-blend-mode |
| CSS Regions Module Level 1 | flow-into, flow-from, break-before, break-after, break- |



| | |
|--|--|
| CSS Line Grid Module Level 1 | line-grid, line-snap, box-snap |
| CSS Masking Module Level 1 | clip-path, clip-rule, mask-image, mask-mode, mask-repeat, mask-position, mask-clip, mask-origin, mask-size, mask-composite, mask, mask-border-source, mask-border-mode, mask-border-slice, mask-border-width, mask-border-outset, mask-border-repeat, mask-border, mask-type, clip |
| CSS Ruby Layout Module Level 1 | display, ruby-position, ruby-merge, ruby-align |
| CSS Generated Content for Paged Media Module | string-set, running, footnote-display, footnote-policy, bookmark-level, bookmark-label, bookmark-state, running |
| CSS Shapes Module Level 1 | shape-outside, shape-image-threshold, shape-margin |

至此，我们已经找出了标准中讲解的所有属性。

结语

今天的这节课我们通过代码对标准做了分析，找出了属性和标准的对应关系。

我们的第一步是找到所有的标准列表，第二步是找到每个标准中的属性。最后得到的这个列表比较全面地覆盖了 CSS 属性，并根据标准划分好了分类，我觉得这可以作为你后续学习和精研的重要依据。

我在本篇内容的前面还有一份浏览器中已经实现的属性列表，理论上属性列表中的属性应该都出现在了我们的标准中。



那么，这次课后的任务，就是找出被我们的代码遗漏的属性，和重复出现在多份标准中的属性，让我们的列表更为完善。

更多资源加微信: 923713 备用QQ: 2902839937

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赞 7 提建议

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写留言



阿成

2019-04-30

共 4 条评论 >

👍 41



fy

2019-05-01

老师，咋感觉你加餐了很多讲。

编辑回复: 因为快讲完啦 老师舍不得马上结束😁



👍 6



旅途。👉👉

2019-07-02

感觉知道的越来越少，看不懂的越来越多



👍 5



至尊魂

2019-04-30

看完表格更迷茫了，比如，为什么transform属于level 1，transform不是css3里的属性么？level4是什么？是css4么？为什么color这种常用属性属于level4?不应该属于level1么？好迷茫哦

共 1 条评论 >

👍 4



桂马

2019-05-18

忘记了就去查api



👍 3



郭郭

2020-03-25

又get到了除前端以外的新技能! ❤️



👍



阿成

2019-05-01

@至尊魂，不是说level1就是CSS1，level3就是CSS3的...



👍 1

