

The Ultimate CSS SELECTORS

Cheatsheet

BASIC SELECTORS & COMBINATORS

*

The Universal Selector - select all elements

h1 p p ul p

h1 + p

The Adjacent Sibling Combinator - select all <p> elements that **immediately** follow a <h1>

h1 p p ul p

h1 ~ p

The General Sibling Combinator - select all <p> elements that follow (and are siblings of) a <h1>

h1 p p ul p

.list > li

The Child Combinator - select all elements that are direct children of .list

```
<ul class="list">
  <li>One ✓
  <li>Two ✓
  <ul>
    <li>Sub Item ✗
```

ATTRIBUTE SELECTORS - Target through HTML Attributes

button[disabled]

Target button elements if they have the disabled **attribute applied**

input[type="submit"]

Target input elements if they have a type attribute with an **exact** value of submit

a[href^="http://"]

Target <a> elements that have a href value that **starts** with http://

a[href\$=".de"]

Target <a> elements that have a href value that **ends** with .de

a[href*="twitter"]

Target <a> elements that have a href value that **contains** the word "twitter"

PSEUDO-ELEMENTS - These target elements that do not exist in the HTML (as opposed to pseudo-classes)

```
div:before {
  content: "";
}
```

The **:before** and **:after** pseudo-elements allow you to insert content before or after any HTML element that isn't self closing (like and <input>).

:before div

```
div:after {
  content: "";
}
```

The content property is required but can be left blank.

These pseudo-elements can be treated and styled like any other element.

div :after

Pseudo-elements continued...

PSEUDO-ELEMENTS CONTINUED

`p:first-line`

Target the first line of text

`p:first-letter`

Target the first letter

The following pseudo-elements are not in the specification and currently have varying implementations in the different browsers. They also require the double colon pseudo-element syntax.

`p::-moz-selection`
`p::selection`

Style sections that have been highlighted by the user

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam in pharetra ligula, eget maximus leo. Aenean pretium mi et mauris mollis malesuada.

`input::-webkit-input-placeholder`
`input::-ms-input-placeholder`
`input::-moz-placeholder`
`input::placeholder`

Style an input element's placeholder text

These don't work when comma separated at the moment.

Placeholder Text

STATE BASED PSEUDO-CLASSES (The boring pseudo-classes)

`:link`

Selects all unvisited links

`:hover`

Selects elements on mouse hover

`:visited`

Selects all visited links

`:active`

Selects an element whilst it is being activated by the user, for example, when the user is mid-click

`:focus`

Selects elements (typically form elements) that have been focused on via a click or keyboard event

FORM & VALIDATION PSEUDO-CLASSES (More mostly boring pseudo-classes)

`:default`

Selects form elements that are in their default state

`:disabled`

Selects form elements that are in a disabled state

`:enabled`

Selects form elements that are not in a disabled state

`:in-range`

Applies to elements that have range limitations; e.g. `<input type="number" min="0" max="5">`

4

`:out-of-range`

A value of 4 would match `:in-range`
A value of 6 would match `:out-of-range`

6

Form & Validation pseudo-classes continued...

FORM & VALIDATION PSEUDO-CLASSES CONTINUED

<code>:valid</code>	Selects form elements whose contents are valid or invalid according to their type; e.g. <code><input type="email"></code>	<input type="text" value="steve.greig@adtrak.co.uk"/>
<code>:invalid</code>		<input type="text" value="steve:greig@adtrak"/>
<code>:required</code>	Selects form elements that have the “required” HTML attribute	
<code>:optional</code>	Selects form elements that don’t have the “required” HTML attribute	
<code>:read-write</code>	Selects elements that are user-editable, such as form input elements or elements that have the “contenteditable” HTML attribute	
<code>:read-only</code>	Selects elements that are not user-editable (anything that doesn’t match <code>:read-write</code>)	
<code>:indeterminate</code>	Selects form elements that are in an indeterminate state; e.g. radio buttons can usually be checked or unchecked, but can sometimes be neither	
<code>:checked</code>	Targets radio buttons, checkboxes and select menu <code><option></code> elements when they have been selected by the user. This can be particularly powerful, enabling what has come to be known as “ The Checkbox Hack ” (see page 6).	

STRUCTURAL PSEUDO-CLASSES (The more fun pseudo-classes... but they get funner)

<code>:first-child</code>	Selects the first child, regardless of type	h1 p p ul p
<code>p:first-of-type</code>	Selects the first of a specific type of element	h1 p p ul p
<code>:last-child</code>	Selects the last child, regardless of type	h1 p p ul p
<code>p:last-of-type</code>	Selects the last of a specific type of element	h1 p p ul p
<code>:only-child</code>	Selects an element if it is the sole child and has no other siblings	ul p ul p
<code>p:only-of-type</code>	Selects a specific type of element if it is the sole child and has no other siblings	ul p ul p
<code>:nth-child(2)</code>	Selects the 2nd child, regardless of type	h1 p p ul p
<code>p:nth-of-type(2)</code>	Selects the 2nd of a specific type of element	h1 p p ul p
<code>:nth-last-child(2)</code>	Selects the 2nd child, regardless of type, but counting from the end	h1 p p ul p
<code>p:nth-last-of-type(2)</code>	Selects the 2nd of a specific type of element, but counting from the end	h1 p p ul p

MISCELLANEOUS PSEUDO-CLASSES

`:root`

Selects the highest parent element in a document, typically the html element

`:lang(en)`

Selects an element with the "lang" HTML attribute applied

`:empty`

Selects an element that is **completely** empty

```
<div></div> /* Empty */  
<div> </div> /* Not empty */
```

`p:not(:first-child)`

The Negation Pseudo-class - Targets elements except for a specified variant of that element



`:target`

Selects an element whose id value is currently being targeted via a # in the URL

```
<div id="Lorem">A</div>
```

```
div { color: black; }  
div:target { color: red; }
```

url.com

A

url.com#Lorem

A

NTH-CHILD EXPRESSIONS (The fun stuff)

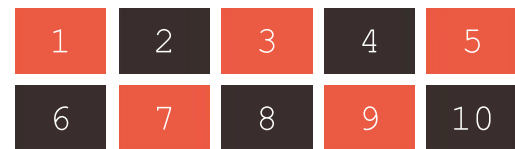
`:nth-child(2n+1)`

Target an infinite sequence

Best way to memorise this is:

The first number is the sequence (every 2 elements)

The second number is where the sequence starts (the 1st element)



`:nth-child(-n+3)`

Using negative numbers to select the **first** x amount of items



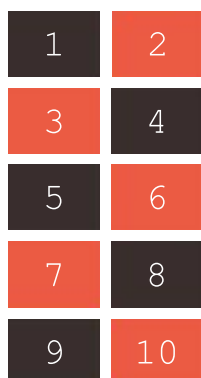
`:nth-last-child(-n+3)`

Using negative numbers to select the **last** x amount of items



`:nth-child(n+2):nth-child(-n+4)`

Combining nth-child expressions to **select an isolated range of items**



```
:nth-child(4n+2),  
:nth-child(4n+3)
```

Using multiple selectors for more abstract sequences

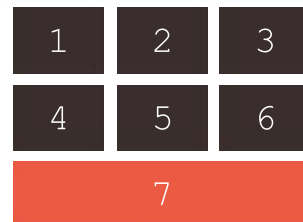
```
:nth-child(8n+2),  
:nth-child(8n+4),  
:nth-child(8n+5),  
:nth-child(8n+7)
```



```
li:nth-child(7):last-child {
  width: 100%;
}
```

Target the last item if total items = x

This example targets the last child only if there are 7 items in total



```
li:nth-child(4):nth-last-child(4),
li:nth-child(4):nth-last-child(4) ~ li {
  width: 25%;
}
```

Target the last few items if total items = x

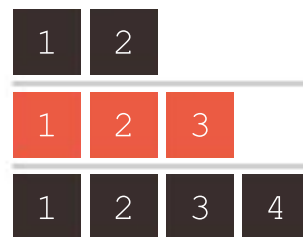
This example targets the last 4 items but only if there are 7 items in total



```
li:first-child:nth-last-child(3),
li:first-child:nth-last-child(3) ~ li {
  background: orange;
}
```

Target all items if total items = x

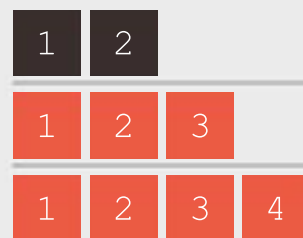
This example targets the items if there are exactly 3 items in total



```
li:first-child:nth-last-child(n+3),
li:first-child:nth-last-child(n+3) ~ li {
  background: orange;
}
```

Target all items if total items = x or greater

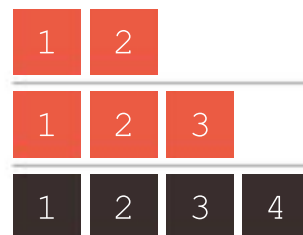
This example targets the items if there are 3 items or greater in total



```
li:first-child:nth-last-child(-n+3),
li:first-child:nth-last-child(-n+3) ~ li {
  background: orange;
}
```

Target all items if total items = x or fewer

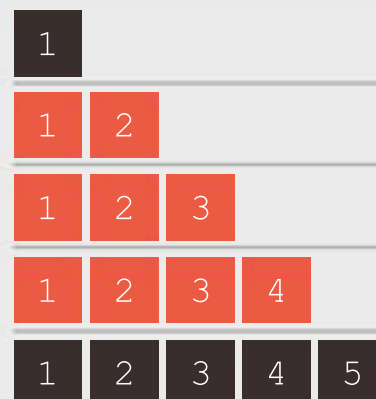
This example targets the items if there are 3 items or fewer in total



```
li:first-child:nth-last-child(n+2):nth-last-child(-n+4),
li:first-child:nth-last-child(n+2):nth-last-child(-n+4) ~ li {
  background: orange;
}
```

Target all items if total items is between x and y

This example targets the items if there are between 2 and 4 items in total



These selectors will work in IE9+. Kudos to Heydon Pickering and Lea Verou for making me aware of these techniques.

The Checkbox Hack - In its simplest form, it can enable easy custom form controls

```
<input type="checkbox" id="abc">
<label for="abc">Option 1</label>
```

```
input {
  opacity: 0;
  position: absolute;
}

input + label {
  background: black;
}

input:checked + label {
  background: orange;
}
```

Option 1

Option 2

Option 3 ✓

Option 4

When the input and label have corresponding “id” and “for” attributes, the label becomes clickable on behalf of the checkbox input.

We can then hide the actual checkbox input and style the label however we want.

We can use the :checked pseudo-class and the adjacent sibling combinator (+) to style the currently selected option however we want.

The “Lobotomised Owl Selector” - Made famous by Heydon Pickering

```
* + * {
  margin-top: 1.5em;
}
```

The lobotomised owl selector targets **anything that follows anything**.

```
.sidebar > * + * {
  margin-top: 1.5em;
}
```

By combining with more combinators, its most practical use is to apply consistent vertical margins to specific sections of your layout.

This example would target **anything that follows anything and is a direct child of the .sidebar element**, and then apply a margin-top of 1.5em.

Heading

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis rutrum quis quam eu fermentum. Aenean aliquet arcu nisi, non sagittis tellus.

↑ margin-top: 1.5em;

Heading

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis rutrum quis quam eu fermentum. Aenean aliquet arcu nisi, non sagittis tellus.

↑ margin-top: 1.5em;

Heading

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis rutrum quis quam eu fermentum. Aenean aliquet arcu nisi, non sagittis tellus.

Using Pseudo-elements to Output Attribute Values

```
p:after {
  content: attr(datetime);
}
```

Pseudo-elements are all the rage, but less mainstream is their ability to output the value of a HTML attribute on the selected element.

```
a:after {
  content: " ("attr(href) " )";
}
```

This example would output an <a> element’s href value in brackets after the link; which could be particularly useful for print stylesheets.

Beginner's Essential

CSS CHEAT SHEET

What makes a website unique is its styling. A must-have skill for every web developer.



WebsiteSetup

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Backgrounds

background

`background-image`

`background-position`

`background-size`

`background-repeat`

`background-attachment`

`background-origin`

`background-clip`

`background-color`

background-image

`url`

`gradients`

`none`

background-position

`top left` | `top center` | `top right` | `center left` | `center center` |
`center right` | `bottom left` | `bottom center` | `bottom right`

`x-% y-%`

`x-pos y-pos`

background-size

`length`

`%`

`auto` | `cover` | `contain`

background-repeat

`repeat` | `repeat-x` | `repeat-y` |

`no-repeat`

background-attachment

`scroll` | `fixed` | `local`

background-origin

`border-box` | `padding-box` | `content-box`

background-clip

`border-box` | `padding-box` | `content-box`

background-color

`color`

`transparent`

Border

border

`border-width`

`border-style`

`border-color`

border-width

`thin` | `medium` | `thick` | `length`

border-style

`none` | `hidden` | `dotted` |

`dashed` | `solid` | `double` |

`groove` | `ridge` | `inset` | `outset`

border-color

`color`

border-bottom

`border-bottom-width`

`border-style`

`border-color`

border-left

`border-left-width`

`border-style`

`border-color`

`border-left-style`

`border-style`

`border-right-color`

`border-color`

`border-right-width`

`thin | medium | thick | length`

`border-top-width`

`thin | medium | thick | length`

`border-break`

`border-width`

`border-style`

`color`

`close`

`border-bottom-color`

`border-color`

`border-bottom-style`

`border-style`

`border-left-color`

`border-color`

`border-left-width`

`thin | medium | thick length`

`border-right-style`

`border-style`

`border-top`

`border-top-width`

`border-style`

`border-color`

border-top-color

`border-color`

border-top-style

`border-style`

box-shadow

`inset || [length, length, length, length || <color>]`

`none`

border-collapse

`collapse | separate`

border-image

`image`

`[number / % border-width stretch | repeat | round]`

`none`

border-right

`border-right-width`

`border-style`

`border-color`

border-radius

`border-radius`

`border-top-right-radius`

`border-bottom-right-radius`

`border-bottom-left-radius`

`border-top-left-radius`

border-top-right-radius

`length`

border-bottom-right-radius

`length`

border-bottom-left-radius

`length`

Box Model

float

left | right | none

height

auto

length

%

max-height

none

length

%

max-width

none

length%

min-height

none

length

%

width

auto

%

length

margin

margin-top

margin-right

margin-bottom

margin-left

margin-bottom

auto

length

⌘

margin-left

auto

height

⌘

margin-right

auto

height

⌘

margin-top

auto

length

⌘

padding

padding-top

padding-right

padding-bottom

padding-left

padding-bottom

length

⌘

padding-left

length

⌘

padding-right

length

⌘

padding-top

length

⌘

display

none | inline | block | inline-block | flex | inline-flex | grid | inline-grid | contents | list-item | run-in | compact | table | inline-table | table-row-group | table-header-group | table-footer-group | table-row | table-column-group | table-column | table-cell | table-caption | ruby | ruby-base | ruby-text | ruby-base-group | ruby-text-group

overflow

visible | hidden | scroll |

auto | no-display | no-content

overflow-x

overflow-y

overflow-style

auto | marquee-line | marqueeblock

overflow-x

visible | hidden | scroll |

auto | no-display | no-content

visibility

visible | hidden | collapse

clear

left | right | both | none

Font

font

font-style

font-variant

font-weight

font-size/line-height

font-family

caption | icon | menu | messagebox | small-caption | status-bar

font-size-adjust

none | inherit

number

font-family

serif | sans-serif | Font Name

font-style

normal | italic | oblique | inherit

font-variant

normal | small-caps | inherit

font-size

xx-small | x-small | small | medium | large | x-large | xxlarge |
smaller | larger |

inherit

length

%

font-weight

normal | bold | bolder | lighter | 100 | 200 | 300 | 400 | 500 | 600 |
700 | 800 | 900 | inherit

Text

direction

ltr | rtl | inherit

hanging-punctuation

none | [start | end | endedge]

letter-spacing

normal

length

%

text-outline

`none`

`color`

`length`

unicode-bidi

`normal` | `embed` | `bidi-override`

white-space

`normal` | `pre` | `nowrap` | `pre-wrap` | `pre-line`

white-space-collapse

`preserve` | `collapse` | `pre-servebreaks` | `discard`

punctuation-trim

`none` | [`start` | `end` | `adjacent`]

text-align

`start` | `end` | `left` | `right` | `center` | `justify`

text-align-last

`start` | `end` | `left` | `right` | `center` | `justify`

text-decoration

`none` | `underline` | `overline` | `line-through` | `blink`

text-shadow

`none`

`color`

`length`

word-break

`normal` | `keep-all` | `loose` | `break-strict` | `break-all`

word-wrap

`normal`

`nowrap`

text-emphasis

`none` | [[`accent` | `dot` | `circle` | `disc` | [`before` | `after`]?]

text-indent

length

⌘

text-justify

auto | inter-word | interideograph | inter-cluster | distribute | kashida | tibetan

text-transform

none | capitalize | uppercase | lowercase

text-wrap

normal | unresrricted | none | suppress

word-spacing

normal

length

⌘

Column

column-count

auto

number

column-fill

auto | balance

column-gap

normal

length

column-rule

column-rule-width

column-rule-style

column-rule-color

column-rule-style

`border-style`

`columns`

`column-width`

`column-count`

`column-rule-width`

`thin` | `medium` | `thick`

`length`

`column-span`

`1` | `all`

`column-width`

`auto`

`length`

Colors

`color`

`inherit`

`color`

`opacity`

`inherit`

`number`

Table

`border-collapse`

`collapse` | `separate`

`empty-cells`

`show` | `hide`

`border-spacing`

`length` `length`

`table-layout`

auto | fixed

caption-side

top | bottom | left | right

Speech

cue

cue-before

cue-after

cue-before

url [silent | x-soft | soft | medium | loud | x-loud | none | inherit]

number

%

mark

mark-before

mark-after

mark-before

string

mark-after

string

voice-pitch-range

x-low | low | medium | high | xhigh | inherit

number

voice-stress

strong | moderate | none | reduced | inherit

voice-volume

silent | x-soft | soft | medium | loud | x-loud | inherit

number

%

cue-after

`url [silent | x-soft | soft | medium | loud | x-loud | none | inherit]`

`number`

`%`

pause

`pause-before`

`pause-after`

pause-before

`none | x-weak | weak | medium | strong | x-strong | inherit`

`time`

phonemes

`string`

voice-duration

`time`

voice-family

`inherit | [<specific-voice, age, generic-voice, number>]`

voice-rate

`x-slow | slow | medium | fast | x-fast | inherit`

`%`

voice-pitch

`x-low | low | medium | high | xhigh | inherit`

`number`

`%`

caption-side

`top | bottom | left | right`

rest

`rest-before`

`rest-after`

rest-before

`none | x-weak | weak | medium | strong | x-strong | inherit`
`time`

rest-after

`none | x-weak | weak | medium | strong | x-strong | inherit`
`time`

speak

`none | normal | spell-out | digits | literal-punctuation |`
`no-punctuation | inherit-number`

List & Markers

list-style

`list-style-type`

`list-style-position`

`list-style-image`

list-style-image

`none`

`url`

list-style-type

`none | asterisks | box | check | circle | diamond | disc | hyphen |`
`square | decimal | decimal-leading-zero | lower-roman | upper-roman |`
`lower-alpha | upper-alpha | lower-greek | lower-latin | upper-latin |`
`hebrew | armenian | georgian | cjk-ideographic | hiragana | katakana |`
`hiragana-iroha | katakana-iroha | footnotes`

marker-offset

`auto`

`length`

Animations

animations

animation-name

animation-duration

animation-timing-function

animation-delay

animation-iteration-count

animation-direction

animation-name

none | IDENT

animation-duration

time

animation-timing-function

**ease | linear | ease-in | easeout | ease-in-out | cubic-Bezier
(number, number, number, number)**

animation-delay

time

animation-iteration-count

inherit

number

animation-direction

normal | alternate

animation-play-state

running | paused

rotation

angle

rotation-point

position (paired value off-set)

Transitions

transitions

`transitions-property`

`transitions-duration`

`transitions-timing-function`

`transitions-delay`

transitions-delay

`time`

transitions-duration

`time`

transitions-property

`none | all`

transition-timing-function

`ease | linear | ease-in | ease-out | ease-in-out | cubicBezier(number, number, number, number)`

UI

appearance

`normal | inherit | [icon | window | desktop | work-space | document | tooltip | dialog | button | push-button | hyperlink | radio-button | checkbox | menu-item | tab | menu | menubar | pull-down-menu | pop-up-menu | list-menu | radio-group | checkbox-group | outline-tree | range | field | combo-box | signature | password]`

cursor

`auto | crosshair | default | pointer | move | e-resize | neresize | nw-resize | n-resize | se-resize | sw-resize | swresize | s-resize | w-resize | text | wait | help`

`url`

icon

`auto | inherit`

`url`

nav-index

auto | inherit

number

nav-up

auto | inherit <id> [current | root | <target-name>

nav-right

auto | inherit <id> [current | root | <target-name>

nav-down

auto | inherit <id> [current | root | <target-name>

nav-left

auto | inherit <id> [current |

root | <target-name>

resize

none | both | horizontal |

vertical | inherit

Pseudo-Class

<code>:active</code>	an activated element
<code>:focus</code>	an element while the element has focus
<code>:hover</code>	an element when you mouse over it
<code>:link</code>	an unvisited link
<code>:disabled</code>	an element while the element is disabled
<code>:enabled</code>	an element while the element is enabled
<code>:checked</code>	an element that is checked
<code>:selection</code>	an element that is currently selected or highlighted by the user
<code>:lang</code>	allows the author to specify a language to use in a specified element
<code>:nth-child(n)</code>	an element that is the n-th sibling
<code>:nth-last-child(n)</code>	an element that is the n-th sibling counting from the last sibling
<code>:first-child</code>	an element that is the first sibling
<code>:last-child</code>	an element that is the last sibling
<code>:only-child</code>	an element that is the only child
<code>:nth-of-type(n)</code>	an element that is the n-th sibling of its type
<code>:nth-last-of-type(n)</code>	an element that is the n-th sibling of its type counting from the last sibling
<code>:last-of-type</code>	an element that is the last sibling of its type
<code>:first-of-type</code>	an element that is the first sibling of its type
<code>:only-of-type</code>	an element that is the only child of its type
<code>:empty</code>	an element that has no children
<code>:root</code>	root element within the document
<code>:not(x)</code>	an element not represented by the argument 'x'
<code>:target</code>	a target element as specified by a target in a UR

Pseudo-Element

<code>::first-letter</code>	Adds special style to the first letter of a text
<code>::first-line</code>	Adds special style to the first line of a text
<code>::before</code>	Inserts some content before the content of an element
<code>::after</code>	Inserts some content after the content of an element

Absolute Measurement

<code>%</code>	percentage
<code>cm</code>	centimeter
<code>in</code>	inch
<code>mm</code>	milimeter
<code>pc</code>	pica (1p = 12 points)
<code>pt</code>	point (1pt = 1/72 inch)
<code>px</code>	pixel (1px = 1/96 inch)

Relative Measurement

<code>ch</code>	width of the "0" glyph found in the font for the font size used to render
<code>em</code>	1em = current font size of current element
<code>ex</code>	x-height of the element's font
<code>gd</code>	the grid defined by 'layout-grid'
<code>rem</code>	the font size of the root element

vh	the viewport's height
vw	the viewport's width
vm	viewport's height or width, whichever is smaller of the two

Angles

deg	degrees
grad	grads
rad	radians
turn	turns

Time

ms	mili-seconds
s	seconds

Frequency

Hz	hertz
kHz	kilo-hertz

Colors

<code>color name</code>	red, blue, green, dark green
<code>rgb(x,y,z)</code>	red = <code>rgb(255,0,0)</code>
<code>rgb(x%,y%,z%)</code>	red = <code>rgb(100%,0,0)</code>
<code>rgba(x,y,z,alpha)</code>	red = <code>rgba(255,0,0,0)</code>
<code>#rrggbb</code>	red = <code>#ff0000</code> (or shorthand - <code>#f00</code>)
<code>hsl(hue, saturation, lightness)</code>	red = <code>hsl(0, 100%, 50%)</code>
<code>flavor</code>	An accent color (typically chosen by the user) to customize the user interface of the user agent itself.
<code>currentColor</code>	computer value of the 'currentColor' keyword is the computed value of the 'color' property

Selector Types

Name	Info	Example
Universal	Any element	<code>* { font: 10px Arial; }</code>
Type	Any element of that type	<code>h1 { text-decoration: underline; }</code>
Grouping	Multiple elements of different types	<code>h1, h2, h3 { font-family: Verdana; }</code>
Class	Multiple elements of different types when you don't want to affect all instances of that type	<code>.sampleClass { text-decoration: underline; }</code>
Id	A single element type when you don't want to affect all instances of that type	<code>#sampleID { text-decoration: underline; }</code>
Descendant	An element that is below (in the document tree) another element - no matter how many levels	<code>#gallery h1 { text-decoration: underline; }</code>

	below	
Child	An element that is directly below (in the document tree) another element	<code>#title > p { font-weight: bold; }</code>
Adjacent Sibling	All elements that share the same parent and elements are in the same immediate sequence	<code>h1 + p { font-style: italic; }</code>
General Sibling	All elements that share the same parent and elements are in the same sequence (not necessarily immediate)	<code>h1 ~ p { font-style: italic; }</code>
Attribute	An element that matches the attribute listed	<code>E[selected]</code> - att whatever the value <code>E[att="val"]</code> - att with a specific value <code>E[rel~="next"]</code> - att with a value is a whitespace separated list <code>*[lang =“en”]</code> - att value either being exactly "val" or beginning with "val" immediately followed by <code>"-" E[att^="val"]</code> - att value that begins with the prefix "val"

Outline

outline

`outline-color`

`outline-style`

`outline-width`

outline-offset

`inherit`

`length`

outline-style

`none` | `dotted` | `dashed` | `solid` | `double` | `groove` | `ridge` | `inset` | `outset`

outline-width

`thin` | `medium` | `thick`

`length`

3D / 2D Transform

backface-visibility

`visible` | `hidden`

perspective

`none`

`number`

perspective-origin

[[`percentage` | `<length>` | `left` | `center` | `right`] [`<percentage>` | `<length>` | `top` | `center` | `bottom`]?] `<length>`] | [[[`left` | `center` | `right`] || [`top` | `center` | `bottom`]] `<length>`]

transform

`none` | `matrix` | `matrix3d` | `translate3d` | `translateX` | `translateY` | `translateZ` | `scale` | `scale3d` | `scaleX` | `scaleY` | `scaleZ` | `rotate` | `rotate3d` | `rotateX` | `rotateY` | `rotateZ` | `skewX` | `skewY` | `skew` | `perspective`

transform-origin

[[[<percentage> | <length> | left | center | right] [<percentage> | <length> | top | center | bottom]?] <length>] | [[[left | center | right] || [top | center | bottom]] <length>]

transform-style

flat | preserve-3d

Generated Content

bookmark-label

content

attr

string

bookmark-level

none

integer

bookmark-target

self

url

attr

border-length

self

url

attr

content

normal | none | inhibit

url

counter-reset

none

identifier number

crop

auto

shape

display

normal | none | list-item

float-offset

length length

hyphenate-after

auto

integer

counter-increment

none

identifier number

hyphenate-lines

no-limit

integer

hyphenate-resource

none

url

hyphens

none | manual | auto

image-resolution

normal | auto

dpi

hyphenate-before

auto

integer

hyphenate-character

auto

string

marks

[crop || cross] | none

move-to

normal | here

identifier

page-policy

start | first | last

quotes

none

string string string string

string-set

identifier

content-list

text-replace

none

[<string> <string>]+

Line Box

alignment-adjust

auto | baseline | before-edge | text-before-edge | middle | central |
after-edge | textafter-edge | ideographic | alphabetic | hanging |
mathematical

length

%

alignment-baseline

baseline | ise-script | beforeedge | text-before-edge | afteredge |
text-after-edge | central | middle | ideographic | alphabetic |
hanging | mathematical

baseline-shift

baseline | sub | super

length

%

dominant-baseline

auto | use-script | no-change | reset-size | alphabetic | hanging | ideographic | mathematical | central | middle | text-after-edge | text-beforeedge

drop-initial-after-align

alignment-baseline

drop-initial-after-align

central | middle | after-edge | text-after-edge | ideographic | alphabetic | mathematical

%

drop-initial-before-align

caps-height

alignment-baseline

drop-initial-before-adjust

before-edge | text-before-edge | central | middle | hanging | mathematical

length

%

drop-initial-value

initial

integer

drop-initial-size

auto

integer

%

line

inline-box-align

initial | last

`integer`

line-height

`normal`

`number`

`length`

`%`

line-stacking

`line-stacking-strategy`

`line-stacking-ruby`

`line-stacking-shift`

line-stacking-strategy

`inline-line-height` | `block-lineheight` | `max-height` | `gridheight`

line-stacking-ruby

`exclude-ruby` | `include-ruby`

line-stacking-shift

`consider-shifts` | `disregardshifts`

line-stacking

`line-stacking-strategy`

`line-stacking-ruby`

`line-stacking-shift`

text-height

`auto` | `font-size` | `text-size` |

`max-size`

vertical-align

`Baseline` | `sub` | `super` | `top` | `text-top` | `middle` | `bottom` | `text-bottom`

`length`

`%`

Hyperlink

target

target-name

target-new

target-position

target-name

current | root | parent | new |

modal

string

target-new

window | tab | none

target-position

above | behind | front | back

Positioning

bottom

auto

%

length

right

auto

%

length

clip

shape

auto

top

auto

`%`

`length`

`left`

`auto`

`%`

`length`

`z-index`

`auto`

`Number`

`position`

`static | relative | absolute | fixed`

Ruby

`ruby-align`

`auto | start | left | center | end | right | distribute-letter | distribute-space | line-edge`

`ruby-overhang`

`auto | start | end | none`

`ruby-position`

`before | after | right | inline`

`ruby-span`

`attr(x) | none`

Paged Media

`fit`

`fill | hidden | meet | slice`

`fit-position`

`[top | center | bottom] || [left | center | right]`

`length`

`%`

orphans

`integer`

image-orientation

`auto`

`angle`

page

`auto`

`identifier`

page-break-after

`auto | always | avoid | left | right`

page-break-before

`auto | always | avoid | left | right`

page-break-inside

`auto | avoid`

size

`auto | landscape | portrait`

`length`

windows

`integer`

skillcrush

CSS TEXT STYLING

cheatsheet

This is cheatsheet focuses on the CSS properties and values you can use to style your text.

ANATOMY OF A CSS BLOCK

HERE'S A CSS BLOCK:

```
1 HTML tag {
2   property1: value;
3   property2: value;
4   property3: value;
5   property4: value;
6 }
```

WHICH MIGHT LOOK LIKE THIS:

```
1 p {
2   color: purple;
3   width: 200px;
4   font-size: 24px;
5   font-family: comic sans;
6 }
```

TEXT STYLES

color

Sets the font color. Accepts either the color name or the hex value of the color.

```
1 color: purple;
2 color: #800080;
```

Beginner's essential CSS CHEAT SHEET

Backgrounds

background

background-image
background-position
background-size
background-repeat
background-attachment
background-origin
background-clip
background-color

background-image

url | Gradients | none

background-position

top left | top center | top right
| center left | center center | center right |
bottom left | bottom center | bottom right
x-% y-%
x-pos y-pos

background-size

length
%
auto | cover | contain

background-repeat

repeat | repeat-x | repeat-y | no-repeat

background-attachment

scroll | fixed | local

background-origin

border-box | padding-box | content-box

background-clip

border-box | padding-box | content-box | no-clip

background-color

color
transparent

Border

border

border-width
border-style
border-color

border-width

thin | medium | thick | length

border-style

none | hidden | dotted |
dashed | solid | double |
groove | ridge | inset | outset

border-color

color

border-left

border-left-width
border-style
border-color

border-left-style

border-style

border-left-color

border-color

border-left-width

thin | medium | thick length

border-right

border-right-width
border-style
border-color

border-right-style

border-style

border-right-color

border-color

border-right-width

thin | medium | thick | length

border-top

border-top-width
border-style
border-color

border-top-style

border-style

border-top-color

border-color

border-top-width

thin | medium | thick | length

border-bottom

border-bottom-width
border-style
border-color

border-bottom-color

border-color

border-bottom-style

border-style

border-break

border-width
border-style
color
close

box-shadow

inset || [length, length,
length, length || <color>]
none

border-collapse

collapse | separate

border-image

image
[number / % border-width
stretch | repeat | round]
none

border-radius

border-radius
border-top-right-radius
border-bottom-right-radius
border-bottom-left-radius
border-top-left-radius

border-top-right-radius

length

border-bottom-right-radius

length

border-bottom-left-radius

length

Box Model

float

left | right | none

height

auto
length
%

max-height

none
length
%

max-width

none
length
%
compact | table | inline-table |
table-row-group | table-header-group
| table-footer-group |

min-height

none
length
%
table-row | table-column-group |
table-column | table-cell |
table-caption | ruby | ruby-base
| ruby-text | ruby-base-group |
ruby-text-group | inline-flex | inline-grid |
contents

width

auto
%
length

margin

margin-top
margin-right
margin-bottom
margin-left

margin-bottom

auto
length
%

margin-left

auto
height
%

margin-right

auto
height
%

margin-top

auto
length
%

padding

padding-top
padding-right
padding-bottom
padding-left

padding-bottom

length
%

padding-left

length
%

padding-right

length
%

padding-top

length
%

display

none | inline | block | inline-block
| list-item | run-in |
compact | table | inline-table |
table-row-group | table-header-group
| table-footer-group |
table-row | table-column-group |
table-column | table-cell |
table-caption | ruby | ruby-base
| ruby-text | ruby-base-group |
ruby-text-group | inline-flex | inline-grid |
contents

overflow

visible | hidden | scroll |
auto | no-display | no-content
overflow-x
overflow-y

overflow-style

auto | marquee-line | marqueeblock

overflow-x

visible | hidden | scroll |
auto | no-display | no-content

rotation

angle

rotation-point

position (paired value off-set)

visibility

visible | hidden | collapse

clear

left | right | both | none

List & Markers

359		
361	list-style	list-style-image
362	list-style-type	none
363	list-style-position	url
364	list-style-image	
365		marker-offset
366	list-style-type	auto
367	none asterisks box check circle	length
368	diamond disc hyphen square decimal	
369	decimal-leading-zero lower-roman upper-roman	
370	lower-alpha upper-alpha lower-greek	
371	lower-latin upper-latin hebrew armenian	
372	georgian cjk-ideographic hiragana	
373	katakana hiragana-iroha katakana-iroha	
374	footnotes	
375		
376		
377		
378		Animations
379		

380	animations	animation-timing-function
381	animation-name	ease linear ease-in easeout ease-in-out
382	animation-duration	cubic-Bezier (number, number, number, number)
383	animation-timing-function	
384	animation-delay	animation-delay
385	animation-iteration-count	time
386	animation-direction	
387		animation-iteration-count
388	animation-name	inherit
389	none IDENT	number
390		
391	animation-duration	animation-direction
392	time	normal alternate
393		
394		animation-play-state
395		running paused
396		
397		
398		

Transitions

401	transitions	transitions-property
402	transitions-property	none all
403	transitions-duration	
404	transitions-timing-function	transition-timing-function
405	transitions-delay	ease linear ease-in ease-out ease-in-out
406		cubicBezier(number, number, number, number)
407	transitions-delay	
408	time	
409		
410	transitions-duration	
411	time	
412		
413		
414		

UI

417	appearance	nav-index
418	normal inherit [icon window desktop	auto inherit
419	work-space document tooltip dialog	number
420	button push-button hyperlink radio-button	
421	checkbox menu-item tab menu menubar	nav-up
422	pull-down-menu pop-up-menu list-menu	auto inherit <id> [current root
423	radio-group checkbox-group outline-tree	<target-name>
424	range field combo-box signature password]	
425		nav-right
426	cursor	auto inherit <id> [current root
427	auto crosshair default pointer move	<target-name>
428	e-resize neresize nw-resize n-resize	
429	se-resize sw-resize swresize s-resize	nav-down
430	w-resize text wait help	auto inherit <id> [current root
431	url	<target-name>
432		
433	icon	nav-left
434	auto inherit	auto inherit <id> [current root
435	url	<target-name>
436		
437		resize
438		none both horizontal vertical inherit
439		
440		
441		

Pseudo-class

444	:active	an activated element
445	:focus	an element while the element has focus
446	:hover	an element when you mouse over it
447	:link	an unvisited link
448	:disabled	an element while the element is disabled
449	:enabled	an element while the element is enabled
450	:checked	an element that is checked
451	:selection	an element that is currently selected or highlighted
452		by the user
453	:lang	allows the author to specify a language to use in
454		a specified element
455	:nth-child(n)	an element that is the n-th sibling
456	:nth-last-child(n)	an element that is the n-th sibling counting from the
457		last sibling
458	:first-child	an element that is the first sibling
459	:last-child	an element that is the last sibling
460	:only-child	an element that is the only child
461	:nth-of-type(n)	an element that is the n-th sibling of its type
462	:nth-last-of-type(n)	an element that is the n-th sibling of its
463		type counting from the last sibling
464	:last-of-type	an element that is the last sibling of its type
465	:first-of-type	an element that is the first sibling of its type
466	:only-of-type	an element that is the only child of its type
467	:empty	an element that has no children
468	:root	root element within the document
469	:not(x)	an element not represented by the argument 'x'
470	:target	a target element as specified by a target in a UR
471		
472		
473		
474		
475		
476		

Pseudo-element

479	::first-letter	Adds special style to the first letter of a text
480	::first-line	Adds special style to the first line of a text
481	::before	Inserts some content before the content of an element
482	::after	Inserts some content after the content of an element
483		
484		
485		

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488	%	percentage
489	cm	centimeter
490	in	inch
491	mm	millimeter
492	pc	pica (1p = 12 points)
493	pt	point (1pt = 1/72 inch)
494	px	pixels
495		
496		

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500		font size used to render
501	em	1em = current font size of current element
502	ex	x-height of the element's font
503	gd	the grid defined by 'layout-grid'
504	rem	the font size of the root element
505	vh	the viewport's height
506	vw	the viewport's width
507	vm	viewport's height or width, whichever is smaller
508		of the two
509		
510		
511		

Angles

516	deg	degrees
517	grad	grads
518	rad	radians
519	turn	turns
520		
521		
522		

Time

525	ms	milli-seconds
526	s	seconds
527		
528		
529		

Frequency

532	Hz	hertz
533	kHz	kilo-hertz
534		
535		
536		

Colors

539	color name	red, blue, green, dark green
540	rgb(x,y,z)	red = rgb(255,0,0)
541	rgb(x%,y%,z%)	red = rgb(100%,0,0)
542	rgba(x,y,z,alpha)	red = rgba(255,0,0,0)
543	#rrggbb	red = #ff0000 (or shorthand - #f00)
544	hsl	red = hsl (0, 100%, 50%)
545	flavor	An accent color (typically chosen by the user)
546		to customize the user interface of the user agent itself.
547		Computer value of the 'currentColor' keyword is the
548	currentColor	computed value of the 'color' property
549		
550		
551		

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Id	A single element type when you don't want to affect all instances of that type	<code>#sampleID { text-decoration: underline; }</code>
Descendant	An element that is below (in the document tree) another element - no matter how many levels below	<code>#gallery h1 { text-decoration: underline; }</code>
Child	An element that is directly below (in the document tree) another element	<code>#title > p { font-weight: bold; }</code>
Adjacent Sibling	All elements that share the same parent and elements are in the same immediate sequence	<code>h1 + p { font-style: italic; }</code>
General Sibling	All elements that share the same parent and elements are in the same sequence (not necessarily immediate)	<code>h1 ~ p { font-style: italic; }</code>
Attribute	An element that matches the attribute listed	<code>E[selected] - att whatever the value</code> <code>E[att="val"] - att with a specific value</code> <code>E[rel~="next"] - att with a value is a whitespace separated list</code> <code>*[lang="en"] - att value either being exactly "val" or beginning with "val" immediately followed by "-"</code> <code>E[att^="val"] - att value that begins with the prefix "val"</code>

Outline

outline	outline-style
outline-color	none dotted dashed solid double groove ridge inset outset
outline-style	
outline-width	outline-width
outline-offset	thin medium thick
inherit	length
length	

3D / 2D Transform

backface-visibility	transform
visible hidden	none matrix matrix3d translate3d translateX translateY translateZ scale scale3d scaleX scaleY scaleZ rotate rotate3d rotateX rotateY rotateZ skewX skewY skew perspective
perspective	transform-origin
none	[[[<percentage> <length> left center right] [<percentage> <length> top center bottom]?] <length>] [[[left center right] [top center bottom]] <length>]
number	transform-style
	flat preserve-3d

Generated Content

bookmark-label	hyphenate-lines
content	no-limit
attr	integer
string	hyphenate-resource
	none
bookmark-level	url
none	
integer	hyphens
	none manual auto
bookmark-target	image-resolution
self	normal auto
url	dpi
attr	
border-length	hyphenate-before
self	auto
url	integer
attr	
content	hyphenate-character
normal none inhibit	auto
url	string
counter-reset	marks
none	[crop cross] none
identifier number	
	move-to
crop	normal here
auto	identifier
shape	
	page-policy
display	start first last
normal none list-item	
	quotes
float-offset	none
length length	string string string string
hyphenate-after	string-set
auto	identifier
integer	content-list
counter-increment	text-replace
none	none
identifier number	[<string> <string>]+

Line Box

alignment-adjust	drop-initial-size
auto baseline before-edge text-before-edge middle central after-edge textafter-edge ideographic alphabetic hanging mathematical	auto
length	integer
%	%
	inline-box-align
alignment-baseline	initial last
baseline use-script beforeedge text-before-edge afteredge text-after-edge central middle ideographic alphabetic hanging mathematical	integer
	line-height
baseline-shift	normal
baseline sub super	number
length	length
%	%
	line-stacking
dominant-baseline	line-stacking-strategy
auto use-script no-change reset-size alphabetic hanging ideographic mathematical central middle	line-stacking-ruby
text-after-edge text-beforeedge	line-stacking-shift
drop-initial-after-align	line-stacking-strategy
alignment-baseline	inline-line-height block-lineheight max-height gridheight
drop-initial-after-align	
central middle after-edge text-after-edge ideographic alphabetic mathematical	line-stacking-ruby
%	exclude-ruby include-ruby
drop-initial-before-align	line-stacking-shift
alignment-baseline	consider-shifts disregardshifts
drop-initial-before-adjust	
before-edge text-before-edge central middle hanging mathematical	line-stacking
length	line-stacking-strategy
%	line-stacking-ruby
	line-stacking-shift
drop-initial-value	text-height
initial	auto font-size text-size max-size
integer	
	vertical-align
	Baseline sub super top text-top middle bottom text-bottom
	length
	%

Hyperlink

target	target-new
target-name	window tab none
target-new	
target-position	target-position
	above behind front back
target-name	
current root parent new modal	
string	

Positioning

bottom	top
auto	auto
%	%
length	length
right	left
auto	auto
%	%
length	length
clip	z-index
shape	auto
auto	Number
	position
	static relative absolute fixed

font-family

Sets the font for the text. Will accept any web safe font (which is about 20, depending on the browser) - we will cover all the web safe fonts in the next step. Can be a prioritized list of fonts; if the first font listed is not available in the browser, it will default to the second, and so on. You can also write `sans-serif` or `serif` and the font will default to the browser's sans serif or serif font.

```
1 font-family: Helvetica, Arial, sans-serif;
```

text-align

Sets the alignment of the text - `left` (default), `right`, `center`, or `justify` - the same options you have in Word.

```
1 text-align:center;
```

font-style

For if you want to italicize your text CSS instead of `` HTML tags. `font-style` takes the values `normal` (default), `italic`, and `oblique`.

```
1 font-style:italic;
```

font-weight

Style your text **bold** without the `` HTML tags; takes the values `normal`, `bold`, `bolder`, `lighter`, or a number from 100 to 900.

```
1 font-weight:bold;
```

text-transform

Allows you to make all your text uppercase or lowercase; takes the values `capitalize`, `uppercase`, and `lowercase`.

```
1 text-transform:uppercase;
```

font-variant

This is a fun one - you can actually make your text small caps by giving this attribute the descriptor: `small-caps`.

```
1 font-variant: small-caps;
```

text-decoration

Underline, overline, line-through, none. This can be used to remove the default underline on elements.

```
1 text-decoration:none;
```

line-height

The default is for the line-height to be equivalent to the font-size. If you want to make it smaller or bigger, you set it with the `line-height` property. Accepts pixels, em, numbers, and percentages.

```
1 line-height:150%;
```

text-indent

Sets the width of the tab indent - takes pixels, ems, or percentages

```
1 text-indent: 3em;
```