

COMPLETE CSS CHEATSHEET

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What is **CSS**?

Cascading Style Sheets or **CSS** describes how **HTML** elements will be displayed onscreen. Because it can control multiple pages' layouts at the same time, it can save you a lot of time and effort.

What is the Difference Between **HTML** and **CSS**?

While HTML and CSS are both languages used to build webpages and applications, they have different functions. HTML is what you use to dictate the structure and the content that will be displayed on the webpage. CSS, on the other hand, is used for the modification of the design of the HTML elements on the webpage (including layout, visual effects, and background color). Together, HTML and CSS make up a webpage interface.

What is **CSS** Syntax?

CSS Syntax is made up of a selector and a declaration block. The selector determines the HTML element to be styled while the declaration block contains one or more declarations or pairs of CSS a property name and a value with a colon between them. Declarations are separated by semicolons and declaration blocks are always enclosed in curly braces.

For example, if you wish to modify the way your heading 1 looks, your CSS syntax would look like something like this:

```
h1 {color:red; font-size:16pc;}
```

CSS is easy enough to use. The challenge is that there are a lot of selectors and declarations that remembering them all is difficult if not impossible. You don't have to memorize them, though. Here's a cheat sheet for CSS and CSS3 that you can use anytime.

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-top-color border-color
border-width	border-top-width thin medium thick length
border-style	border-bottom border-bottom-width border-style border-color
border-color	border-bottom-color border-color
border-width	border-bottom-style border-style
border-style	border-break border-width border-style color close
border-left	box-shadow inset [length, length, length, length <color>] none
border-left-width	border-collapse collapse separate
border-left-style	border-image image [number / % border-width stretch repeat round] none
border-left-color	border-radius border-radius border-top-right-radius border-bottom-right-radius border-bottom-left-radius border-top-left-radius
border-left-width	border-top-right-radius length
border-right	border-bottom-right-radius length
border-right-width	border-bottom-left-radius length
border-right-style	border-bottom-left-radius length
border-right-color	border-bottom-left-radius length
border-right-width	border-bottom-left-radius length
border-top	border-bottom-left-radius length
border-top-width	border-bottom-left-radius length
border-style	border-bottom-left-radius length
border-color	border-bottom-left-radius length
border-top	border-bottom-left-radius length
border-top-width	border-bottom-left-radius length
border-style	border-bottom-left-radius length
border-top-color	border-bottom-left-radius length
border-top-width	border-bottom-left-radius length
border-style	border-bottom-left-radius length
border-color	border-bottom-left-radius length

Table

border-collapse
collapse | separate

empty-cells
show | hide

border-spacing
length length

table-layout
auto | fixed

caption-side
top | bottom | left | right

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 |
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 | marquee-block

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

Font

font
font-style
font-variant
font-weight
font-size/line-height
font-family
caption | icon | menu | messagebox
| small-caption | status-bar

vfont-size-adjust
none | inherit
number

font-family
serif | sans-serif | monospace | cursive | fantasy
} system-ui | emoji | math | fangsong |
inherit | initial | unset

font-style
normal | italic | oblique |
Inherit

font-variant
normal | small-caps | inherit

font-size
xx-small | x-small | small |
medium | large | x-large | xxlarge
| smalller | larger |
inherit
length
%

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

Color

color
inherit
color

opacity
inherit
number

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-width
thin | medium | thick
length

column-width
auto
length

column-span
1 | all

Colors

color name - red, blue, green, dark green
rgb (x,y,z) - red = rgb(255,0,0)
rgb (x%,y%,z%) - red = rgb (100%,0,0)
rgba (x,y,z, alpha) - red = rgba (255,0,0,0)
#rrggbb - red = #ff0000 (or shorthand - #f00)
hsl - red = hsl (0, 100%, 50%)

flavor - an accent color (usually chosen by the user) that is used to customized the UI of the user agent itself

currentColor - computer value of the 'currentColor' keyword is the computed value of the 'color' property

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 | preserve-breaks |
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 | unrestricted | none | suppress

word-spacing

normal
length
%

List and Markers

list-style

list-style-type
list-style-position
list-style-image

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

list-style-image

none
url

marker-offset

auto
length

Speech

cue	phonemes
cue-before	string
cue-after	
cue-before	voice-duration
url [silent x-soft soft medium loud x-loud none inherit]	time
number	
%	
cue-after	voice-family
url [silent x-soft soft medium loud x-loud none inherit]	Inherit [<specific-voice, age, generic-voice, number>]
number	
%	
mark	voice-rate
mark-before	x-slow slow medium fast x-fast inherit
mark-after	%
mark-before	voice-pitch
string	x-low low medium high x-high inherit
mark-after	number
string	%
voice-pitch-range	caption-side
x-low low medium high xhigh inherit	top bottom left right
number	
voice-stress	rest
strong moderate none reduced inherit	
voice-volume	rest-before
silent x-soft soft medium loud x-loud inherit	none x-weak weak medium strong x-strong inherit
number	
%	time
pause	rest-after
pause-before	none x-weak weak medium strong x-strong inherit
pause-after	
pause-before	speak
none x-weak weak medium strong x-strong inherit	none normal spell-out digits literal-punctuation no-punctuation inherit-number
time	
pause-after	
none x-weak weak medium strong x-strong inherit	
time	

Absolute Measurement

%	percentage
cm	centimeter
in	inch
mm	millimeter
pc	pica (1p = 12 points)
pt	point (1pt = 1/72 inch)
px	pixels

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 | ease-out | 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

Transitions

transitions
transition-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 |
cubic-Bezier (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 |
ne-resize | nw-resize | n-resize | se-resize |
sw-resize | 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

Angles

deg - degrees
grad - grads
rad - radians
turn - turns

Time

ms - milli-seconds
s - seconds

Frequency

Hz - hertz
kHz - kilo-hertz

Pseudo-class

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

Pseudo-element

::
:: first-letter - adds special style to the first letter of a text
:: first-line - adds special style to the first line of a text
:: before - inserts some content before the content of an element
:: after - inserts some content after the content of an element

Relative Measurement

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

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 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 (but not necessarily immediate)	<code>h1 - p { font-style: italic; }</code>
Attribute	An element that matches the attribute listed	<p><code>E [selected] - att whatever the value</code></p> <p><code>E [att="val"] - att with a specific value</code></p> <p><code>E [rel="next"] - att with a value is a whitespace separated list</code></p> <p><code>*[lang="en"] - att value either being exactly "val" or beginning with "val" immediately followed by "_"</code></p> <p><code>E [att ^ = "val"] - att value that begins with the prefix "val"</code></p>

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

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

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

Generated Content

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

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

alignment-baseline

baseline | ise-script | before-edge | text-before-edge | after-edge | 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-before-edge

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

text-height

auto | font-size | text-size | max-size

vertical-align

baseline | sub | super | top | text-top | middle | bottom | text-bottom
length
%

Paged Media

fit

fill | hidden | meet | slice

fit-position

[top | center | bottom] | | [left | center | right]
length
%

image-orientation

auto
angle

orphans

integer

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