

## Beginner’s Essential

**CSS CHEAT SHEET**

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

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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

perserve | 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-thorugh | 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 | decimalleading-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

|  |  |
| --- | --- |
| **: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 |

# Absolute Measurement

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

# Relative Measurement

|  |  |
| --- | --- |
| **ch** | width of the “0” glyph 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 |

# Angles

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

# Time

|  |  |
| --- | --- |
| **ms** | mili-seconds |
| **s** | seconds |

# Frequency

|  |  |
| --- | --- |
| **Hz** | hertz |
| **kHz** | kilo-hertz |

# 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(hue, saturation, lightness)** | red = hsl (0, 100%, 50%) |
| **flavor** | An accent color (typically chosen by the user) to customize the user interface of the user agent itself. |
| **currentColor** | computer value of the ‘currentColor’ keyword is the computed value of the ‘color’ property |

# Selector Types

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

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