

THE COMPLETE CSS CHEAT SHEET

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Definition Reference: w3schools

FONT | TEXT | BACKGROUND | COLOR

FONT

The CSS font properties define the font family, boldness, size, and the style of a text

font-family

Generic Family - Serif, Sans-serif, Monospace

-Font families: Times New Roman, Verdana, Courier New

font-style

Mostly used to specify italic text.

-Values: normal, italic, oblique

font-stretch

Allows you to make text narrower or wider

-Values: normal, condensed, expand, ultra-condensed, ultra-expanded, semi-condensed, extra-condensed

font-size

Default: 16px.

- values: px, %, em, rem, vw, small, large, etc.

font-weight

Sets how thick chars in text shld b displayed

-Values: normal, bold, bolder, lighter, 100 - 900

font-variant

For displaying caps letters with a smaller text size

-Values: normal, small-caps, inherit

TEXT

text-decoration

Specifies the decoration added to text

- Values: underline, overline, line-through

direction

Set text direction from left to right or vice versa

- Values: rtl, ltr, inherit, initial

text-transform

Controls the capitalization of text

- Values: capitalize, uppercase, lowercase, none

text-indent

Specifies indentation of the 1st line in a text-block

- Values: px, em, %, etc

text-align

Set the horizontal alignment of texts in a div

- Values: right, left, justify, center

text-overflow

Specifies how overflowed text shld b displayed

- Values: clip, ellipsis, stringz

text-shadow

eg. text-shadow: 2px 2px 8px #FF0000

- Value order: horizontal, vertical, blur-radius, color

letter-spacing

increase/decreases space between chars in a text

- Value: px, em, etc

BACKGROUND

Short hand eg - background: lightblue url("img_tree.gif") no-repeat fixed center;

-Order: background-color, background-image, background-repeat, background-attachment, background-position

background-color

Specifies the background color to be used

- Value: color (name, hex, rgba, hsl)

background-position

Specifies the position of the background images

- Values: center(commonly used), left center, etc

background-attachment

Specifies mov't of element relative to container

- Values: scroll, fixed, local

background-origin

Specifies the positioning area of the bg images

- Values: border-box-padding-box, content-box

text-align

Specifies 1 or more bg images to be used

- Values: URLs, seperated with a comma

background-size

Specifies the size of the background images

- Values: cover(common), auto, contain

background-repeat

Sets if/how a bg image will be repeated

- Values: repeat, no-repeat, repeat-x, repeat-y, space

background-clip

Specifies the painting area of the bg images

- Values: border-box-padding-box, content-box

COLOR

Common Hex: White - #ffffff, Black - #000000, Red - #ff0000, Green - #00ff00, Blue - #0000ff....[See the pattern?](#)

Common rgb: White - rgb(255,255,255), Black - rgb(0, 0, 0), Red - rgb(255, 0, 0), Green - ? [Same Pattern](#) - ff = 255

CSS BOX MODEL

It is essentially a box that wraps around every HTML element. It consists of: margins, borders, padding, and the actual content

- Unless Specified, Value is always a length(px, em, rem, etc) or %

CONTENT

The content of the box, where text and images appear.

height & Width

Specifies the height & width of content

max-height & max-width

Cannot be exceeded by height or width value

float

Positions elements to far left or right

- Values: left, right. Make sure the elements are the only 2 in their div. Float one left & the other right

display

Specifies if/how an element is displayed

- Values: none, block, inline, inline-block

BORDER

A border that goes around the padding and content, not visible until given a width

- Value: border-width, border-style, border-color eg. border: 3px, solid, red; (in that order
- **BORDER STYLES**: solid, dotted, dashed, double. 3D versions - groove, ridge, inset, outset. none, hidden
Values can also be properties on their own. eg. border-style: 3px; border-top-color: 8px; border-right-style: solid;

border-top

Specifies only the top border

- Same values and same arrangement as border

border-right

Specifies only the right border

- Same values and same arrangement as border

border-bottom

Specifies only the bottom border

- Same values and same arrangement as border

border-left

Specifies only the left border

- Same values and same arrangement as border

MARGIN

Used to create space around elements, outside of any defined borders

- Value: margin-top, margin-right, margin-bottom, margin-left - eg. margin: 5px, 10px, 5px, 10px;

margin-top

Specifies only the top margin

margin-right

Specifies only the right margin

margin-bottom

Specifies only the bottom margin

margin-left

Specifies only the left margin

margin-shorthand

When only 2 vals are specified. eg. margin: 5px 10px
1st val - margin-top & bottom. 2nd val - margin-right & left

margin - shortest hand

When only 1 value is specified. eg. margin: 5px
The value represent all margins

PADDING

Used to generate space around an element's content, inside of any defined borders

- Value: padding-top, padding-right, padding-bottom, padding-left - eg. padding: 5px, 10px, 5px, 10px;

padding-top

Specifies only the top padding

padding-right

Specifies only the right padding

padding-bottom

Specifies only the bottom padding

padding-left

Specifies only the left padding

padding - shorthand

When only 2 vals are specified. eg padding: 5px 10px
1st val - padding-top & bottom. 2nd val - padding-right & left

padding - shortest hand

When only 1 value is specified. eg. padding: 5px
The value represent all paddings

COLUMN | ANIMATION | TRANSITION

COLUMN

column-count

Spec no of columns an element shld b divided into
-Values: auto(default), numberm(of columns)

column-gap

Specifies the gap between the columns
-Values: length(px, em,rem), normal

column-rule-color

Specifies the color of the rule between columns
-Values: color

column-rule-width

Specifies the width of the rule b/n columns
-Values: length(px, em,rem), medium, thin, thick

column-width

Specifies the column width
-Values: auto, length(px, em, rem)

column-fill

Specifies how to fill columns, balanced or not
- values: balance(default) , auto

column-rule

Sets width, style, & color of rule b/n columns
-Values: column-rule-width, column-rule-style

column-rule-style

Specifies the style of the rule between columns
-Values: none, hidden, dotted, dashed, solid, etc

column-span

Spec how many colmns a elemnt shld span across
-Values: column-rule-width, column-rule-style

columns

Shorthand for column-width & column-count
-Values: column-width column-count , auto

ANIMATION

An animation lets an element gradually change from one style to another.

- The animation is declared with **@Keyframes**, and the following properties are used to modify it's behavior

animation

A shorthand 4 setting all animation properties
-Values: animation-name, -duration, -timing-function, -delay, -iteration-count, -direction

animation-duration

Spec time animation shld take to complete 1 cycle
- Value: time. eg, 4s

animation-delay

Specifies a delay for the start of an animation
- Value: time. eg, 4s

animation-direction

Specifies the direction of play of the animation
- Values: normal, reverse, alternate, alternate-reverse

animation-name

Specifies the name of the @keyframes animation
-Values: text

animation-timing-function

Specifies the speed curve of the animation
-Values: ease, linear, ease-in, ease-out, ease-in-out

animation-iteration-count

Specif no of times an animation shld b played
- Value: number

animation-play-state

Spec whether animation is running or paused
- Values: paused, running

TRANSITIONS

Allows you to change property values smoothly, over a given duration.

- To add transition, at least 2 things must bet specified, the transition-property and transition-duration.

transition

A shorthand 4 setting all transition properties
-Val: transition-property, -duration, -timing-function, -delay

transition-duration

Spec time(millisecond) it takes to complete transition
- Value: time. eg 4

transition-timing function

Specifies the speed curve of the transition effect
- Values: ease, linear, ease-in, ease-out, ease-in-out

transition-property

Spec name of CSS propaty the transition effect is for
- Value: CSS Property. eg. width, color

transition-delay

Spec a delay (in sec) for the transition effect
- Value: time eg. 1

Transition vs Animation

Transition is a form of animation

! Except it works on only a start & end value, for more flexibility, use animation

PSEUDO PROPERTIES | UNITS OF MEASUREMENTS

PSEUDO-ELEMENTS

::first-letter & ::first-line

Adds special styling to 1st letter & line of a text

::before & ::after

Adds some content before & after an element

PSEUDO-CLASSES

:link & :visited

Styles an unvisited link & a visited link

:enabled & :disabled

Styles an enabled element & a disabled element

:first-child, :last-child & :only-child

Styles 1st child, last child & only child of an element

:first-of-type, :last-of-type & :only-of-type

An element that is 1st, last or only type of its siblings

:root

Styles an unvisited link & a visited link

:active

Styles an activated element

:focus & :hover

An element when with focus & when u mouser over it

:checked & :selection

A checked form element and a highlighted element

:nth-child(n) & :nth-last-child(n)

The nth child & the nth child counting from the end

:nth-of-type(n) & :nth-last-of-type(n)

The nth sibling or nth counting from last of its siblings

:empty

An element when with focus & when u mouser over it

:target

Styles the current active target element

ABSOLUTE UNITS

Absolute measurement units do not change with changing browser window or device screen size

- Not good for responsiveness. use only when you know what you are doing

Centimeter - cm

Millimeter - mm

Inch - in

Point - pt

RELATIVE UNITS

Relative measurement units change with changing screen size, pixels, width, etc

- Very good for responsivity. Preferred over absolute units

Percentage - %

Styles an unvisited link & a visited link

em

Relative to font size of the current element

vh & vw

Relative to the viewport height(vh) or width(vw)

Pixel - px

An element when with focus & when u mouser over it

Root em - rem

Relative to font size of root element(mostly <html>)

vm

Relative to vh or vw, whichever is smaller

ANGLES

Degrees - deg

Radians - rad

Grads - grad

Turns - turn

FREQUENCY

Hertz - Hz

Kilo-Hertz - kHz

TIME

Seconds - s

Milli-seconds - ms

POSITION | OUTLINE | LIST | TRANSFORM

POSITION

Specifies the type of positioning method used for an element

Use properties - top, bottom, right, & left to specify the position after specifying the type of positioning

absolute

Relative to it's first positioned ancestor.

relative

Relative to the elements original position

fixed

Relative to browser window. Fixed to specified location

sticky

Relative to a scroll position. first relative then become fixed

OUTLINE

A line that is drawn around elements, outside the borders, to make the element "stand out"

Shorthand - outline: outline-width outline-style outline-color. eg. outline: 2px solid black

outline-width

Values: length(px, em,etc), medium, thin, thick

outline-color

Value: color

outline-style

Values: none, hidden, dotted, dashed. solid, double ect

outline-offset

Adds space b/n an outline and the edge or border, value: px

LIST-STYLE

**Specifies the styling applied to a list of items, **

Shorthand - list-style: list-style-type list-style-position list-style-image. eg. list-style: square inside url("img.jpg")

list-style-type

Values: disc(default), square, circle, decimal, armanian, etc

list-style-image

Value: image URL. eg. url(my-img.jpg)

list-style-position

Values: outside(default), inside

Note

Any missing list-style value will be replaced by the default

TRANSFORM

Applies a 2D or 3D transformation to an element. allows you to translate, scale, rotate, skew

Values can be an angle(deg), length(px,em,etc), percentage, decimal(unitless)

translate(x,y)

Defines a 2D translation

translateX(x),translateY(y),translateZ(z)

Defines a translation, using value for the X, Y or Z-axis

scale3d(x,y,z)

Defines a 3D scale transformation

rotate(angle)

Defines a 2D rotation along an angle(parameter)

rotateX(angle),rotateY(angle),rotateZ(angle)

Defines a 3D rotation along the X, Y or Z-axis

skewX(x-angle), skewY(y-angle)

Defines a 2D skew transformation along the X or Y-axis

translate3d(x,y,z)

Defines a 3D translation

scale(x,y)

Defines a 2D scale transformation

scaleX(x),scaleY(y),scaleZ(z)

Def a scale trans4mation by givin a val 4 X,Y or Z-axis

rotate3d(x,y,z,angle)

Defines a 3D rotation

skew(x-angle, y-angle)

Defines a 2D skew transformation along the X & Y-axis

perspective(n)

Defines a perspective view for a 3D transformed element

TRANSFORM Properties

transform-origin

allows changing the position of transformed elements

transform-style

Specifies how nested elements are rendered in 3D space

SPEECH | CSS SELECTORS

SPEECH

Essentially converts your document into speech and feeds it into screen reader for the user
- It is best for people with impaired vision or people with reading problems.

cue

Sets the cue properties in one declaration
-Values: cue-before, cue-after

elevation

Sets where the sound should come from
-Values: angle,below,level,above,higher,lower

pause-before & pause-after

A pause b4 & after speaking an element's content
-Values: time, %

pitch

Specifies the speaking voice
-Values: frequency, x-low, low, medium, high, x-high

play-during

A sound to play while speaking an elemnt's content
-Values: auto, none, url, mix repeat

speak

Specifies whether content will render aurally
-Values: normal, nonne, spell-out

speak-numeral

Specifies how to speak numbers
-Values: digits, continuous

speech-rate

Specifies the speed of the speaking
-Values: number, slow, medium, fast, slower, etc

cue-before & cue-after

Sound to play b4 & after speaking elemnt's contnt
-Values: none, url

pause

Sets the pause properties in one declaration
-Values: pause-before, pause-after

voice-family

Specifies the voice family of the speaking
-Values: male, female, child, other specifics

pitch-range

Specifies the variation in the speaking voice.
-Value: number

richness

Specifies the richness of the speaking voice.
-Values: number

speak-header

Specifies how to handle table headers
-Values: always, once

volume

Specifies the volume of the speaking
-Values: number, %, silent, soft, medium, loud

stress

Specifies the "stress" in the speaking voice
-Values: number

CSS SELECTORS

Used to "find" (or select) the HTML elements you want to style.

categories of selectors: simple(name,id,class), combinator, Pseudo-classes, pseudo-elements, attribute

Universal - *

Selects all elements
- eg. * { color: red; }

Class - .

Select single or multiple elements using their class
-eg. .button { color: #ffffff }

Attribute - []

Select an elemnt that has a particular attribute
-eg. a[target="_blank"] { color: #00ff00; }

Pseudo-element - ::

To style specified part of an element
-eg. p::first-line { color: ff0000 }

Child - >

To style a direct child of an element
-eg. .caption > p { color: ff0000 }

Name

Select using element name
-eg. p { font-size: 18px; }

id -

Select a sinlge element using its unique id
-eg #submit-button { disabled: true }

Pseudo-class - :

To Style an element in a particular state.
-eg a:hover { background-color: 0000ff; }

Multiple Elements

to give multiple elements the same styling
-eg. h1, p, .button { font-size: 17px; }

Descendant

To style a descendant, could be child or lower
-eg. .caption p { color: ff0000 }

CSS GRID | FLEXBOX

GRID

Offers a grid-based layout system, with rows and columns, making it easier to design web pages

- grid: grid-template-rows -template-columns -template-areas -auto-rows -auto-columns -auto-flow

grid-template-columns

Specif no(& widths) of columns in a grid layout

-Values: none, auto, max-content, min-content, length

grid-auto-flow

Controls how auto-placed items get inserted in grid

-Values: row, column, dense, row dense

grid-auto-rows

Sets a size 4 the rows in a grid container

-Values: auto, max-content, min-content, length

grid-row

Shorthand property for the grid-row properties

- grid-row: grid-row-start grid-row-end

grid-template-rows

Specifies no(& heights) of the rows in a grid layout.

-Values: none, auto, max-content, min-content, length

grid-template

Shorthand property 4 the grid template properties

-grid-template: grid-template-rows, -template-columns

grid-auto-columns

Sets a size 4 the columns in a grid container

-Values: auto, max-content, min-content, length

grid-column

Shorthand property for the grid-column properties

- grid-column: grid-column-start grid-column-end

GRID-AREA

Specifies a grid item's size and location in a grid layout. Shorthand property for:

- grid-area: grid-row-start, grid-column-start, grid-row-end, grid-column-end

grid-row-start

Specif on which row to start displaying the item

-Values: auto(default), row-line

grid-row-end

Specif on which row-line to stop displaying the item

-Values: auto(default), span n, column-line

grid-column-start

Specif on which column to start displaying the item

-Values: auto(default), span n, column-line

grid-column-end

Specif on which column-line to stop displaying item

-Values: auto(default), span n, column-line

GRID-GAP

Defines the size of the gap between the rows and columns in a grid layout

- grid-gap: grid-row-gap, grid-column-gap.

grid-row-gap

Sets the size of the gap b/n rows in a grid layout

Value: length(px, etc), %. 0 is default

grid-column-gap

Sets the size of the gap b/n columns in a grid layout

Value: length(px, etc), %. 0 is default

CSS FLEXBOX

The Flexible Box Layout Module, makes it easier to design flexible responsive layout structure

-Flex container properties: flex-direction, flex-wrap, flex-flow, justify-content, -align-items, align-content

display

Specifies the type of box used for an HTML element

Set value to "flex" to use flexbox

flex-direction

Specif direction of the items inside a flex container

Values: row, row-reverse, column, column-reverse

flex-flow

Shorthand property 4 flex-direction and flex-wrap

- flex-flow: flex-direction flex-wrap

align-items

Vertically aligns the flex items

Values: stretch, center, flex-start, flex-end, baseline

flex-wrap

Specifies whether the flex items should wrap or not

- Values: nowrap, wrap, wrap-reverse

justify-content

Horizontally aligns the flex items

Values: flex-start, flex-end, center, space-between, space-around

align-content

Modifies behavior of the flex-wrap property

Values: stretch, center, flex-start, flex-end, space-between, etc

order

Specif order of a flexible item relative to the rest

- Value: number. default = 0.