

CSS3 WEB DESIGN

CHEAT SHEET

CSS SYNTAX, COLORS & UNITS



Created by @Manz (<http://twitter.com/Manz>)

<https://lenguajecss.com/>

C CSS Syntax

GENERAL SYNTAX

tag [**attributes**] **#id** **.class** **:pseudoclass** **::pseudoelement** {
 selector **:** **value** ;
}

COMMENTS (ANNOTATIONS)

/* comment */

EXAMPLE **/* IE sucks */**

S CSS Selectors

SELECTORS & COMBINATORS

# element with id="unique"	#unique
. elements with class="c1"	.c1
* all elements inside of div (universal)	div *
> inner div elements inside of div (descendant)	div div
> direct childs of div (child)	div > div
+ adjacents elements (adjacent sibling)	div + div
~ siblings elements at same level (general sibling)	div ~ div

ATTRIBUTES

IGNORE CASE SENSITIVE

[attr="..." i]

[attr] elements with attr attribute present	
[attr="val"] elements with attr= attribute with value val	"val"
[attr~="val"] elements with attr~= that contains val	"abc val xyz"
[attr = "es"] elements with attr = that contains es *	"en-US es-ES"
[attr*="val"] elements with attr*= that includes val	"equivaleⁿt-is-"
[attr^="val"] elements with attr^= that begins with val	"value-is-..."
[attr\$="val"] elements with attr\$= that ends with val	"in-interval"

PSEUDOCLASSES

LINKS	:link links that have not yet been visited
LINKS	:visited links that has been visited
USER ACTION	:hover user move mouse/pointer over element
USER ACTION	:active element is being activated by user
USER ACTION	:focus element has the focus (foreground)
USER INTERFACE	:enabled :disabled on/off input state
USER INTERFACE	:checked elements toggled "on" by user
USER INTERFACE	:indeterminate input on indeterminate state
USER INTERFACE	:read-only :read-write readonly input or modifiable
USER INTERFACE	:placeholder-shown inputs that shows placeholder at now
USER INTERFACE	:default default elements for form (input, option, ...)
USER INTERFACE	:valid :invalid userdata pass/not pass check validation
USER INTERFACE	:in-range :out-of-range userdata in range/out of range
USER INTERFACE	:required :optional elements required/optional for submit
STRUCTURAL	:first-child first child of group of elements ~ :nth-child(1)
STRUCTURAL	:last-child last child of group of elements ~ :nth-last-child(1)
STRUCTURAL	:nth-child(n) n th child of group of elements n <small>odd even expr</small>
STRUCTURAL	:nth-last-child(n) last n th child of group of elements
STRUCTURAL	:only-child unique child ~ :first-child:last-child
CHILD OF SAME TYPE	:first-of-type first child of same type
CHILD OF SAME TYPE	:last-of-type last child of same type
CHILD OF SAME TYPE	:nth-of-type(n) n th child of same type
CHILD OF SAME TYPE	:nth-last-of-type(n) last n th child (same type)
CHILD OF SAME TYPE	:only-of-type unique child (same type)
OTHERS	:root root element of the document
OTHERS	:empty element without contents
OTHERS	:not(x) not match by x selector
OTHERS	:target is the target of anchor URL
OTHERS	:lang(x) elements in x language

PSEUDOELEMENTS

::first-line	first line of text element
::first-letter	first letter of text element

legend

optional keyword
keyword
wide unsupported
shorthand value
userdata value
detailed value
default value
pseudoclass
pseudoelement

C CSS Colors

COLOR PROPERTIES

color: **color**
opacity: **1** **alpha**

COLOR EXAMPLE

RGB	237 + 63 + 0 = RGB(237, 63, 0)
HSL	11 + 255 + 119 = HSL(11, 255, 119)

COLOR MODELS

KEYWORDS

colorkey **transparent** **currentColor**

NUMERIC FORMAT

EXAMPLES

RGB(red , green , blue)	RGB(65, 106, 225)
# red_hex green_hex blue_hex	#416AE1 short form: #46E
HSL(hue , saturation , lightness)	HSL(159, 185, 145)

WITH ALPHA CHANNEL

EXAMPLES

RGBA(red , green , blue , alpha)	RGBA(65, 106, 225, 0.5)
HSLA(hue , saturation , lightness , alpha)	HSLA(159, 185, 145, 1)

COLOR COMPONENTS

red green blue numeric value between [0 ... 255]	
red_hex green_hex blue_hex hexadecimal value [00 ... FF]	
hue numeric value (degrees) between [0 ... 360deg]	
saturation lightness percentage values [0%...100%]	
alpha number value between [0.0 ... 1.0]	

V CSS Values & Units

RESETTING ALL PROPERTIES

all: **initial** **inherit** **unset**

COMMON VALUES

initial	property's initial value
inherit	computed value on parent
unset	initial or inherit (depending)

IMPORTANT

property: **value** **!important**
EXAMPLE **color:red!important;**

MATHEMATICAL EXPRESSIONS

calc(value1 op value2 ...)
EXAMPLE **calc(200px + 10%)**

FONT-RELATIVE SIZES

VIEWPORT SIZES

em computed value on current	vw viewport width %
ex x-height of lowercase "x"	vh viewport height %
ch advance measure of "0" glyph	vmin smaller (vw or vh)
rem computed value on root elem	vmax larger (vw or vh)

ABSOLUTE SIZES

ANGLES

DURATIONS

px pixels	deg degrees [0..360]	s seconds
cm centimeters	grad gradians [0..400]	ms millisecs
mm millimeters	rad radians [0..6.28]	
Q quarter-mm	rad turns [0.0..1.0]	
in inches		
pc picas		
pt points		

CUSTOM PROPERTIES (CSS VARIABLES)

DECLARING	USING
-- varname : value ; EXAMPLE --size: 100px;	var(-- varname , fallback ...) EXAMPLE calc(var(--size, 50px) * 2);

M CSS Media Features

VIEWPORT SIZE

DEVICE SIZE

MIN MAX width size	MIN MAX device-width size
MIN MAX height size	MIN MAX device-height size

ASPECT RATIO

MIN MAX aspect-ratio ratio	MIN MAX device-aspect-ratio ratio
---	--

COLORS

MIN MAX color number	MIN MAX color-index number
---	---

OTHERS

MIN MAX monochrome number	device-min-width: 640px
MIN MAX resolution dpi/dpcm	device-aspect-ratio: 16/9
orientation portrait landscape	max-color-index: 256
scan progressive interlace	min-resolution: 300dpi
grid number	min-monochrome: 2
	grid: 1

CSS3

CHEAT SHEET

WEB DESIGN

FONTS, TEXT, SPEECH & RULES



Created by @Manz (<http://twitter.com/Manz>)

<https://lenguajecss.com/>

F Fonts	
GENERIC FONT	
serif	sans-serif cursive fantasy monospace
EXAMPLE <i>font-family: Verdana, Arial, sans-serif;</i>	
FONTS (TYPOGRAPHY)	
font-family: font1 font2 font3 ..., genericfont	
font-size: size %	
REL	smaller larger
ABS	xx-small x-small small medium large x-large xx-large
font-size-adjust: none number	
font-style: normal italic oblique	
font-synthesis: none weight style	
font-variant: none small-caps	
font-weight: normal bold	
REL	lighter bolder
ABS	100 200 300 400 500 600 700 800 900
font: style variant weight stretch size/ line-height family	
caption icon menu message-box small-caption status-bar	

<https://fonts.googleapis.com/css?family=Open+Sans:300,400|Roboto:400>

S Speech Media	
VOLUME/SPEAK	
volume: number % silent x-soft soft medium loud x-loud	
speak: normal none spell-out	
PAUSE	
pause-before: 0 time %	
pause-after: 0 time %	
pause: before after	
CUE	
cue-before: none url(snd.mp3)	
cue-after: none url(snd.mp3)	
cue: before after	
MIXING/SPATIAL	
play-during: auto none url(snd.mp3) mix repeat	
azimuth: angle center left right left-side far-left left center-left right-side far-right right center-right behind leftwards rightwards	
elevation: angle below level above lower higher	
VOICE CHARACTERISTICS	
speech-rate: number x-slow slow medium fast x-fast	
REL	slower faster
voice-family: voice1 voice2 voice3 ..., genericvoice	
pitch: frequency x-low low medium high x-high	
pitch-range: 50 number	
richness: 50 number	
stress: 50 number	
SPEECH	
speak-punctuation: none code	
speak-numeral: continuous digits	
speak-header: once always	

GENERIC VOICE

male female child

EXAMPLE *voice-family: Romeo, male;*

T CSS Text L3	
TRANSFORMING TEXT	
text-transform: none capitalize uppercase lowercase full-width	
WHITE SPACES	
white-space: normal pre nowrap pre-wrap pre-line	
tab-size: 8 number size	
LINE BREAKING & WORD BOUNDARIES	
line-break: auto loose normal strict	
word-break: normal keep-all break-all	
BREAKING WORDS	
hyphens: none manual auto	
word-wrap: normal break-word	
overflow-wrap: normal break-word	
ALIGNMENT & JUSTIFICATION	
text-align: left right center justify start end match-parent	
text-align-last: auto start end left right center justify	
text-justify: auto none inter-word distribute	
SPACING	
word-spacing: normal size	
letter-spacing: normal size	
EDGE EFFECTS	
text-indent: size hanging each-line	
hanging-punctuation: none first last force-end allow-end	

T CSS Text Decoration	
LEVEL 2 (LEGACY)	
text-decoration: none underline overline line-through	
LEVEL 3	
text-decoration-line: none underline overline line-through blink	
text-decoration-color: currentColor color	
text-decoration-style: solid double dotted dashed wavy	
text-decoration-skip: none objects spaces ink edges box-decoration	
text-decoration: none line style color	
text-underline-position: auto under left right	
EMPHASIS MARKS	
text-emphasis-style: none string	
status dot circle double-circle triangle sesame	
text-emphasis-color: currentColor color	
text-emphasis-position: over under left right	
text-emphasis: style color	
TEXT SHADOW	
text-shadow: none pos-x pos-y blur color	

STATUS

filled open

EXAMPLE *open circle;*

@ CSS Rules

FONT LOADING	
@font-face {	
font-family: font;	
src: url(file.woff) format("woff"),	
url(file.ttf) format("truetype");	
unicode-range: U+000-27FF;	
}	
MEDIA QUERIES (RESPONSIVE DESIGN)	
@media all screen print and (...) {	
property: value;	
}	
EXAMPLE <i>@media screen and (max-width: 640px) { ...</i>	
CSS IMPORT RULES	
@import "index.css";	
@import url("index.css");	
@import url("print.css") print;	

FONT FORMATS

embedded-opentype truetype opentype svg woff woff2

EXAMPLE *url(file.ttf) format("truetype");*

serif font

monospaced font

sans serif font

fantasy font

LINE HEIGHT CALCULATIONS (LEGACY)	
line-height: number % size normal	
vertical-align: size % baseline middle sub super	
text-top text-bottom top bottom	

CSS CONDITIONAL

@supports not (feature) or and ... {

property: value;

EXAMPLE *@supports not (display: flexbox) { .nav { display: block } }*

CSS3

CHEAT SHEET

WEB DESIGN

BOX MODEL: BORDERS, BACKGROUNDS & IMAGES



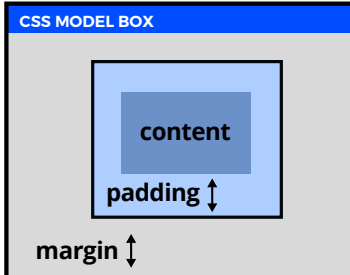
Created by @Manz (<http://twitter.com/Manz>)

<https://lenguajecss.com/>

B CSS Box Model

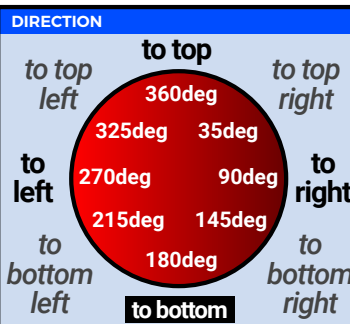
DIMENSIONS	
width: auto size %	height: auto size %
min-width: 0 size %	min-height: 0 size %
max-width: none size %	max-height: none size %
MARGINS/PADDINGS	
SPECIFIC MARGINS	SPECIFIC PADDINGS
margin-top: 0 size %	padding-top: 0 size %
margin-right: 0 size %	padding-right: 0 size %
margin-bottom: 0 size %	padding-bottom: 0 size %
margin-left: 0 size %	padding-left: 0 size %
MARGIN SHORTHAND	PADDING SHORTHAND
margin: top right bottom left	padding: top right bottom left
top left right bottom	top left right bottom
top bottom left right	top bottom left right
top right bottom left	top right bottom left
OVERFLOW/VISIBILITY	
overflow-x: visible hidden scroll auto no-display no-content	
overflow-y: visible hidden scroll auto no-display no-content	
overflow: overflow-x overflow-y	
visibility: visible hidden collapse	

BOX TYPES (DISPLAY)	
display: inline none run-in	
inline-block block	
inline-list-item list-item	
inline-table table table-cell	
table-row table-caption	
inline-grid grid subgrid	
inline-flex flex	



I CSS Images

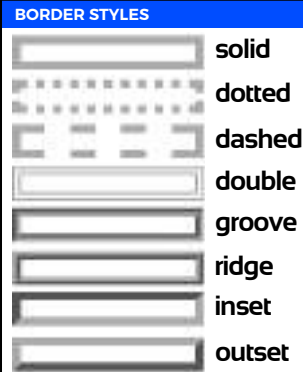
GRADIENTS	
LINEAR GRADIENTS	
background-image: linear-gradient (direction color1 start , color2 start , ...)	repeating-linear-*
RADIAL GRADIENTS	
background-image: radial-gradient (shape rsize at pos color1 start , color2 ...)	repeating-radial-*
GRADIENT OPTIONS	
shape rsize	
circle radius at pos ...	
ellipse rh rv at pos ...	
EXAMPLE (ellipse 55px 45px at top, red, blue)	
RADIUS SIZE (RSIZE) ALSO ACCEPT...	
closest-side farthest-side	
closest-corner farthest-corner	
IMAGES AND OBJECTS	
SIZING	
object-fit: fill contain cover none scale-down	
object-position: 50% 50% background-position	
IMAGE PROCESSING	
image-orientation: 0deg size	
image-resolution: 1dppx from-image resolution snap	
image-rendering: auto crisp-edges pixelated	



B CSS Borders

BORDERS	
border-width: size thin medium thick	
border-style: none border-style hidden	
border-color: currentColor color	
SIDE BORDER SHORTHAND	
border-top: width style color	
border-right: width style color	
border-bottom: width style color	
border-left: width style color	
MAIN SHORTHAND	
border: width style color	
SPECIFIC CORNERS	
border-top-left-radius: 0 size %	
border-top-right-radius: 0 size %	
border-bottom-right-radius: 0 size %	
border-bottom-left-radius: 0 size %	
MAIN SHORTHAND	
border-radius: top-left top-right bottom-right bottom-left	
top-left top-right bottom-left bottom-right	
top-left bottom-right top-right bottom-left	
top-left top-right bottom-right bottom-left	
MAIN SHORTHAND WITH HORIZONTAL/VERTICAL RADIUS	
border-radius: border-radius / border-radius	
BORDER IMAGE WIDTH	
auto size number %	
BORDER IMAGE	
border-image-source: none url (img.png)	
border-image-slice: 100% top right bottom left fill	
border-image-width: 1 top right bottom left	
border-image-outset: 0 top right bottom left	
border-image-repeat: stretch repeat round space	
border-image: source slice / width outset repeat	

SPECIFIC SHORTHANDS
border-top-*
border-right-*
border-bottom-*
border-left-*



2-PARAMETER FORMAT
size-h size-v
1-PARAMETER
size-h = size-v
size-h

B Rounded Corners

SPECIFIC CORNERS	
border-top-left-radius: 0 size %	
border-top-right-radius: 0 size %	
border-bottom-right-radius: 0 size %	
border-bottom-left-radius: 0 size %	
MAIN SHORTHAND	
border-radius: top-left top-right bottom-right bottom-left	
top-left top-right bottom-left bottom-right	
top-left bottom-right top-right bottom-left	
top-left top-right bottom-right bottom-left	
MAIN SHORTHAND WITH HORIZONTAL/VERTICAL RADIUS	
border-radius: border-radius / border-radius	

BORDER IMAGE WIDTH	
auto size number %	

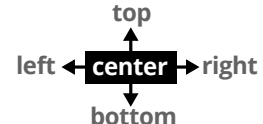


IMAGE SLICE	
number %	

B CSS Border Image

BORDER IMAGE	
border-image-source: none url (img.png)	
border-image-slice: 100% top right bottom left fill	
border-image-width: 1 top right bottom left	
border-image-outset: 0 top right bottom left	
border-image-repeat: stretch repeat round space	
border-image: source slice / width outset repeat	

IMAGE OUTSET	
number size	

B Backgrounds

LEVEL 2	
background-color: transparent color	
background-image: none url (image.png), url (image.jpg), ...	
background-repeat: repeat repeat-x repeat-y repeat-style	
repeat repeat repeat-style-h repeat-style-v	
background-attachment: scroll fixed local	
background-position: pos-x pos-y	
background: color image repeat attachment position	
LEVEL 3	
background-clip: border-box padding-box content-box	
background-origin: border-box padding-box content-box	
background-size: auto width height contain cover	
background: color pos size repeat origin clip attach image	
EFFECTS: SHADOWS	
box-shadow: none pos-x pos-y blur size color inset	

REPEAT-STYLE PARAMETERS
repeat **space** **round** **no-repeat**
EXAMPLE **repeat** **no-repeat** (or **repeat-x**)

CSS3

CHEAT SHEET

WEB DESIGN

EFFECTS, MASKS, SHAPES, LISTS & UI



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F CSS Filters

FILTER PROPERTY

filter: none filter1 filter2 ...

FILTER VALUES

number 0.0 ... 1.0
% 0% ... 100%

FILTERS

blur(blur) 0px = original >0px=blur
brightness(number %) 0%=black 100%=original >100% ALLOWED
contrast(number %) 0%=grey 100%=original >100% ALLOWED
saturate(number %) 0%=B&W 100%=original >100% ALLOWED
grayscale(number %) 0%=original 100%=B&W
invert(number %) 0%=original 100%=invert
sepia(number %) 0%=original 100%=sepia
opacity(number %) 0%=transparent 100%=original
hue-rotate(angle) 0deg=original 360deg=max
drop-shadow(pos-x pos-y blur color) (same as text-shadow)



REFERENCE BOX

geometry-box = **shape-box** **fill-box** **stroke-box** **view-box**
shape-box = **box** **margin-box**
box = **content-box** **padding-box** **border-box**

S CSS Shapes

FLOAT AREA SHAPE

shape-outside: none url(img.png)
basic-shape geometry-box
shape-image-threshold: 0.0 number
shape-margin: 0 size %

BASIC SHAPES

RECTANGLE

inset(top right bottom left round border-radius)

CIRCLE/ELLIPSE

circle(shape-radius at position)
ellipse(radius_x radius_y at position)

POLYGON

polygon(x0 y0 ,... , xi yi) **SHAPE RADIUS**
size % farthest-side closest-side

M CSS Masks

CLIPPING SHAPE

clip-path: none url(img.png) basic-shape geometry-box

POSITIONED MASKS

mask-image: none url(img.svg#mask) gradient
mask-mode: auto alpha luminance
mask-repeat: no-repeat background-repeat
mask-position: center background-position
mask-clip: border-box no-clip geometry-box
mask-origin: border-box geometry-box
mask-size: auto background-size
mask-composite: add subtract intersect exclude
mask: image mode position / size repeat clip composite

BORDER-BOX MASK

mask-border-source: none url(img.svg#mask)
mask-border-mode: alpha luminance
mask-border-slice: 0 border-image-slice
mask-border-width: auto border-image-width
mask-border-outset: 0 border-image-outset
mask-border-repeat: stretch border-image-repeat
mask-border: source slice / width / outset repeat mode

C Compositing

COMPOSITING AND BLENDING

background-blend-mode: normal blend
isolation: auto isolate
mix-blend-mode: normal blend

BLEND MODES

SEPARABLE

normal multiply screen overlay
darken lighten color-dodge color-burn
hard-light soft-light difference exclusion

NON-SEPARABLE

hue saturation color luminosity

L Lists

LISTS

list-style-image: none url(img.jpg)
list-style-position: inside outside
list-style-type: disc circle square upper-alpha lower-alpha
upper-roman lower-roman decimal decimal-leading-zero
lower-greek armenian georgian none

list-style: type position image

GENERATED CONTENT

content: normal none url(img.jpg) attr(attr) ' string '
open-quote close-quote no-open-quote no-close-quote
counter(name , list-style-type)

content-increment: none name

content-reset: none name

quotes: ' open-str ' ' close-str ' none

PSEUDOCASSES

::before before element

::after after element

E. AMPL E p::before { content: "-"; }

MARKERS

::marker item's marker generated by list item (bullet, number...)
marker-side: list-item list-container

U User Interface

BOX MODEL

box-sizing: content-box border-box

OUTLINE

outline-width: size thin medium thick
outline-style: none auto hidden dotted dashed solid
double groove ridge inset outset
outline-color: invert color
outline-offset: 0 size
outline: color style width

RESIZE/OVERFLOW

resize: none both horizontal vertical
text-overflow: clip ellipsis string

POINTING DEVICES AND KEYBOARDS

cursor: auto default none url(img.png) x y
context-menu help pointer progress wait
cell crosshair text vertical-text zoom-in zoom-out
alias copy move no-drop not-allowed grab grabbing
n-resize ne-resize e-resize se-resize s-resize sw-resize
w-resize nw-resize ew-resize ns-resize nesw-resize
nwse-resize col-resize row-resize all-scroll
caret-color: auto color
nav-up: auto id current root target
nav-down: auto id current root target
nav-left: auto id current root target
nav-right: auto id current root target



T CSS Transitions

TRANSITIONS

transition-property: **all** **none** property1, property2, ...

transition-duration: **0s** time

transition-timing-function: **ease** timing-function

transition-delay: **0s** time

transition: **property** **duration** **t-function** **delay**

timing-function

s f s	ease	(0.25, 0.1, 0.25, 1)
n n n	linear	(0.00, 0.0, 1.00, 1)
s n n	ease-in	(0.42, 0.0, 1.00, 1)
n n s	ease-out	(0.00, 0.0, 0.58, 1)
s n s	ease-in-out	(0.42, 0.0, 0.58, 1)

timing-function steps()

step-start	(1, start)
step-end	(1, end)
steps(n)	(n, end)
steps(a,b)	(a, b)

A CSS Animations

SLOW **NORMAL** **FAST**

ANIMATIONS

animation-name: **none** name1, name2, ...

animation-duration: **0s** time

animation-timing-function: **ease** timing-function

animation-delay: **0s** time

animation-iteration-count: **1** number **infinite**

animation-direction: **normal** **reverse**

alternate **alternate-reverse**

animation-fill-mode: **none** **forwards** **backwards** **both**

animation-play-state: **running** **paused**

animation: **name** **duration** **t-function** **delay** **it-c** **dir** **f-m** **p-s**

CHAINED (ANIMATION PROPERTY)

animname1	5s	linear	
animname2	5s	linear	5s
animname3	6s	linear	10s

ANIMATION KEYFRAMES

```
@keyframes animname {
  0% { property: value; ... }
  ...
  100% { property: value; ... }
}
```

@-vendor-keyframes

M CSS Motion Paths

0% = from
100% = to

MOTION PATH

motion-path: **none** **url**(img.svg)

basic-shape **path** **geometry-box**

motion-offset: **0** size %

motion-rotation: **auto** **reverse** angle

motion: **path** **offset** **rotation**

S CSS Scroll Snap

CAPTURING SCROLL SNAP AREAS

scroll-snap-type: **none** **x** **y**

block **inline** **both** **mandatory** **proximity**

ALIGNMENT AND LIMITS

scroll-snap-align: **inline-axis** **block-axis**

scroll-snap-stop: **normal** **always**

SCROLL SNAPPING/SNAPPORT

scroll-padding*:

scroll-snap-margin*:

AXIS

none **start** **center** **end**

EXAMPLE scroll-snap-align: start end

SCROLL SNAPPING/SNAPPORT

SNAP MARGIN/PADDING

*-top: **0** size %

*-right: **0** size %

*-bottom: **0** size %

*-left: **0** size %

*: **top** **right** **bottom** **left**

INLINE/BLOCK

*-inline-start: **0** size %

*-inline-end: **0** size %

*-inline: **start** **end**

*-block-start: **0** size %

*-block-end: **0** size %

*-block: **start** **end**

T CSS Transforms

TRANSFORM PROPERTY

transform: **none** transform1 transform2 ...

2D TRANSFORMS

transform: **translateX**(size %)

transform: **translateY**(size %)

transform: **translate**(size % , size %)

transform: **scaleX**(number)

transform: **scaleY**(number)

transform: **scale**(number , number)

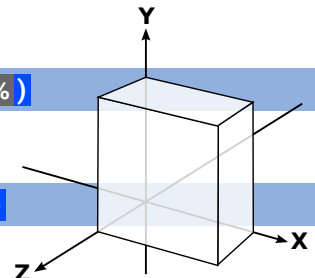
transform: **skewX**(angle)

transform: **skewY**(angle)

transform: **skew**(angle , angle)

transform: **rotate**(angle)

transform: **matrix**(n1 , n2 , n3 , n4 , n5 , n6)



3D TRANSFORMS

transform: **translateZ**(size)

transform: **translate3d**(size % , size % , size %)

transform: **scaleZ**(number)

transform: **scale3d**(number , number , number)

transform: **rotateX**(angle)

transform: **rotateY**(angle)

transform: **rotateZ**(angle)

transform: **rotate3d**(number , number , number , angle)

transform: **perspective**(size)

transform: **matrix3d**(n1 , n2 , n3 , n4 , n5 , n6 , ..., n16)

TRANSFORMS OPTIONS

transform-origin: **50% 50%** pos-x pos-y pos-z

transform-style: **flat** **preserve-3d**

backface-visibility: **visible** **hidden**

PERSPECTIVE OPTIONS

perspective: **none** size

perspective-origin: **50% 50%** pos-x pos-y pos-z

C CSS Multi Columns

COLUMNS

column-width: **auto** size

column-count: **auto** number

columns: **width** **counter**

COLUMN RULES

column-rule-width: size **thin** **medium** **thick**

column-rule-style: style **none**

column-rule-color: color

column-rule: **width** **style** **color**

COLUMN BREAKS

break-before/break-after: **auto** **always** **avoid** **left** **right**

page **column** **avoid-page** **avoid-column**

break-inside: **auto** **avoid** **avoid-page** **avoid-column**

SPANNING, FILLING AND GAPS

column-span: **none** **all**

column-fill: **auto** **balance**

column-gap: size **normal**



F CSS Flexbox

CONTAINER PROPERTIES

ORDERING AND ORIENTATION

flex-direction: **row** **row-reverse** **column** **column-reverse**

flex-wrap: **nowrap** **wrap** **wrap-reverse**

flex-flow: **direction** **wrap**

PRIMARY AXIS

justify-content: **flex-start** **center** **flex-end**
space-between **space-around**

SECONDARY AXIS

align-items: **flex-start** **center** **flex-end** **baseline** **stretch**

MULTI-LINE CONTAINER PROPERTIES

align-content: **flex-start** **center** **flex-end** **stretch**
space-between **space-around**

ITEM PROPERTIES

FLEXIBILITY

flex-grow: **0** **number**

flex-shrink: **0** **number**

flex-basis: **auto** **content** **size** %

flex: **grow** **shrink** **basis**

ALIGNMENT AND ORDERING

align-self: **auto** **flex-start** **center** **flex-end** **baseline** **stretch**
order: **0** **number**

A CSS Align

CONTAINER PROPERTIES

CONTENT DISTRIBUTION

justify-content/align-content:

- ▶ **normal** **baseline-position**
- ▶ **space-between** **space-around** **space-evenly** **stretch**
- ▶ **overflow-pos** **self-position**

SELF-POSITION

- ▶ **start** **center** **end** (self, content)
- ▶ **flex-start** **flex-end** idem (only flex)
- ▶ **self-start** **self-end** (self)
- ▶ **left** **right** (self, content) fallback: start

OVERFLOW POSITION

safe **unsafe**

BASLINE-POSITION

- ▶ **baseline** **last-baseline**

PRIMARY AXIS

justify-items: **auto** **normal** **stretch** **baseline-position**
▶ **overflow-pos** **self-position**
▶ **legacy** **left** **center** **right**

SECONDARY AXIS

align-items: **normal** **stretch** **baseline-position**
▶ **overflow-pos** **self-position**

ITEM PROPERTIES

PRIMARY AXIS

justify-self: **auto** **normal** **stretch** **baseline-position**
▶ **overflow-pos** **self-position**

SECONDARY AXIS

align-self: **auto** **normal** **stretch** **baseline-position**
▶ **overflow-pos** **self-position**

TABLES

border-collapse: **separate** **collapse** caption-side: **top** **bottom**
border-spacing: **size-h** **size-v** empty-cells: **show** **hide**
table-layout: **auto** **fixed**

P Positioning

POSITIONING

position: **static** **relative** **absolute** **fixed** **sticky**

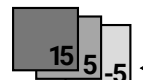
FLOATING

float: **none** **left** **right**

clear: **none** **left** **right** **both**

POSITIONING (NOT STATIC POSITION)

top: **auto** **size** %
left: **auto** **size** %
right: **auto** **size** %
bottom: **auto** **size** %
z-index: **auto** **number**



G CSS Grids

CONTAINER GRIDS

EXPLICIT GRID

grid-template-columns: **none** **track1** **track2** ...

grid-template-rows: **none** **track1** **track2** ...

TRACKS

- ▶ **auto** **size** % **fr** automatic size or specific size/fraction unit
- ▶ **[linename]** **auto** **size** % **fr** named grid lines + specific size
- ▶ **minmax(min , max)** min <= size range <= max
- ▶ **repeat(number , tracks)** repeat fragments *n* times
- ▶ **repeat(auto-fill, tracks)** repeated fragments and fill space
- ▶ **repeat(auto-fit, tracks)** repeated fragments and fit space
- ▶ **max-content** **min-content** largest max/min content track
- ▶ **fit-content(size %)** ~ min(max-content, max(auto, arg))

AREA GRID

grid-template-areas: **"area1 area2"** ... **"areaY areaZ"**

AREAS

- ▶ **area** grid area name (grid-area)
- ▶ **.** empty grid area cell
- ▶ **none** no grid areas are defined

EXAMPLE

#grid { display: grid;
grid-template-areas: "head head"
"nav main"
"foot foot"; }

SHORTHAND TEMPLATE GRID

grid-template: **none**
▶ **template-rows** / **template-columns**
▶ **template-areas** + **template-rows/columns**

IMPLICIT GRID

grid-auto-columns: **auto** **size** %
grid-auto-rows: **auto** **size** %
grid-auto-flow: **row** **column** **dense**

GUTTERS (GAPS)

grid-column-gap: **0** **size** %
grid-row-gap: **0** **size** %
grid-gap: **row-gap** **column-gap**

SHORTHAND GRID

grid: **template**
▶ **template-rows** / **auto-flow** **dense** **grid-auto-columns**
▶ **auto-flow** **dense** **grid-auto-rows** / **template-columns**

ITEM GRIDS

LINE-BASED PLACEMENT

grid-column-start/grid-column-end: **auto** **line**
grid-row-start/grid-row-end: **auto** **line**
grid-column: **column-start** **column-end**
grid-row: **row-start** **row-end**

LINES

- ▶ **number** **name** refer to a numbered or named grid line
- ▶ **span** **number** **name** span across until grid line

PLACEMENT SHORTHANDS

grid-area: ▶ **template-area**
▶ **row-start** / **column-start** / **row-end** / **column-end**