

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
- :visited links that has been visited

USER ACTION

- :hover user move mouse/pointer over element
- :active element is being activated by user
- :focus element has the focus (foreground)

USER INTERFACE

- :enabled :disabled on/off input state
- :checked elements toggled "on" by user
- :indeterminate input on indeterminate state
- :read-only :read-write readonly input or modifiable
- :placeholder-shown inputs that shows placeholder at now
- :default default elements for form (input, option, ...)
- :valid :invalid userdata pass/not pass check validation
- :in-range :out-of-range userdata in range/out of range
- :required :optional elements required/optional for submit

STRUCTURAL CHILD ELEMENTS

- :first-child first child of group of elements ~:nth-child(1)
- :last-child last child of group of elements ~:nth-last-child(1)
- :nth-child(n) nth child of group of elements

n	odd
	even
	expr
- :nth-last-child(n) last nth child of group of elements
- :only-child unique child ~:first-child:last-child

OTHERS CHILD OF SAME TYPE

- :first-of-type first child of same type
- :last-of-type last child of same type
- :nth-of-type(n) nth child of same type
- :nth-last-of-type(n) last nth child (same type)
- :only-of-type unique child (same type)

OTHERS

- :root root element of the document
- :empty element without contents
- :not(x) not match by x selector
- :target is the target of anchor URL
- :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 unupport
- 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

RGB(red , green , blue)

red_hex green_hex blue_hex #416AE1 short form: #46E

HSL(hue , saturation , lightness) HSL(159, 185, 145)

WITH ALPHA CHANNEL

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

- em computed value on current
- ex x-height of lowercase "x"
- ch advance measure of "0" glyph
- rem computed value on root elem

VIEWPORT SIZES

- vw viewport width %
- vh viewport height %
- vmin smaller (vw or vh)
- vmax larger (vw or vh)

ABSOLUTE SIZES

- px pixels
- cm centimeters
- mm millimeters
- Q quarter-mm
- in inches
- pc picas
- pt points

ANGLES

- deg degrees [0..360]
- grad gradians [0..400]
- rad radians [0..6.28]
- rad turns [0.0..1.0]

DURATIONS

- s seconds
- ms millisecs

PERCENTAGES

value %

EXAMPLE 75%

CUSTOM PROPERTIES (CSS VARIABLES)

DECLARING

-- varname : value ;

EXAMPLE --size: 100px;

USING

var(-- varname , fallback ...)

EXAMPLE calc(var(--size, 50px) * 2);

M CSS Media Features

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

CSS3 WEB DESIGN

CHEAT SHEET

FONTS, TEXT, SPEECH & RULES



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F Fonts

GENERIC FONT
 serif sans-serif cursive fantasy monospace
 EXAMPLE *font-family: Verdana, Arial, sans-serif;*

FONTS (TYPOGRAPHY)
font-family: font1, font2, font3 ..., genericfont
font-size: size %
 smaller larger
 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
 lighter bolder
 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 **CUE**
pause-before: 0 time % **cue-before:** none url(snd.mp3)
pause-after: 0 time % **cue-after:** none url(snd.mp3)
pause: before after **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
 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

GENERIC VOICE
 male female child
 EXAMPLE *voice-family: Romeo, male;*

SPEECH
speak-punctuation: none code
speak-numeral: continuous digits
speak-header: once always

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

STATUS
text-decoration-color: filled open
 EXAMPLE *open circle;*

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

@ 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;
}
```

 Media features
 EXAMPLE *@media screen and (max-width: 640px) { ...*

FONT FORMATS
 embedded-opentype truetype opentype svg woff woff2
 EXAMPLE *url(file.ttf) format("truetype");*

CSS IMPORT RULES

```
@import "index.css";
@import url("index.css");
@import url("print.css") print;
```

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 WEB DESIGN

CHEAT SHEET

BOX MODEL: BORDERS, BACKGROUNDS & IMAGES



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B CSS Box Model

DIMENSIONS

width: **auto** size %
 min-width: **0** size %
 max-width: **none** size %

height: **auto** size %
 min-height: **0** size %
 max-height: **none** size %

MARGINS/PADDINGS

SPECIFIC MARGINS

margin-top: **0** size %
 margin-right: **0** size %
 margin-bottom: **0** size %
 margin-left: **0** size %

SPECIFIC PADDINGS

padding-top: **0** size %
 padding-right: **0** size %
 padding-bottom: **0** size %
 padding-left: **0** size %

MARGIN SHORTHAND

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

PADDING SHORTHAND

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

OVERFLOW/VISIBILITY

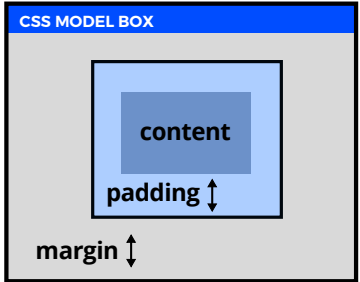
overflow-x: **visible** **hidden** **scroll** **auto** **no-display** **no-content**
 overflow-y: **visible** **hidden** **scroll** **auto** **no-display** **no-content**

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**



B CSS Borders

BORDERS

border-width: **size** **thin** **medium** **thick**
 border-style: **none** **border-style** **hidden**
 border-color: **currentColor** **color**

SPECIFIC SHORTHANDS

border-top-*
 border-right-*
 border-bottom-*
 border-left-*

SIDE BORDER SHORTHAND

border-top: **width** **style** **color**
 border-right: **width** **style** **color**
 border-bottom: **width** **style** **color**
 border-left: **width** **style** **color**

BORDER STYLES

MAIN SHORTHAND

border: **width** **style** **color**

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 %

2-PARAMETER FORMAT

size-h size-v
 1-PARAMETER size-h = size-v

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**

I CSS Images

GRADIENTS

LINEAR GRADIENTS

background-image: **repeating-linear-***
linear-gradient(**direction** **color1** **start** , **color2** **start** , ...)

RADIAL GRADIENTS

background-image: **repeating-radial-***
radial-gradient(**shape** **rsize** **at** **pos** **color1** **start** , **color2** ...)

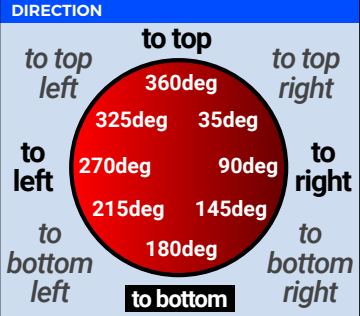
GRADIENT OPTIONS

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**



BORDER IMAGE WIDTH

auto **size** **number** %

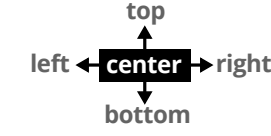


IMAGE SLICE

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**

REPEAT-STYLE PARAMETERS

repeat **space** **round** **no-repeat**
 EXAMPLE **repeat** **no-repeat** (or **repeat-x**)

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**

CSS3 WEB DESIGN

CHEAT SHEET

EFFECTS, MASKS, SHAPES, LISTS & UI

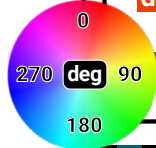


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F CSS Filters

FILTER PROPERTY	FILTER VALUES
filter: none filter1 filter2 ...	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
MARKERS
::marker item's marker generated by list item (bullet, number...)
marker-side: list-item list-container

PSEUDOCASSES
::before before element
::after after element
E. AMPLE p::before { content: "-"; }

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

CSS3

CHEAT SHEET

WEB DESIGN

TRANSITIONS, ANIMATIONS, TRANSFORMS, MOTIONS, SNAP & COLUMNS



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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

Timing Function	Cubic-bezier()
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/SNAPPOINT

scroll-padding*:

scroll-snap-margin*:

AXIS

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

EXAMPLE scroll-snap-align: start end

SCROLL SNAPPING/SNAPPOINT

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)

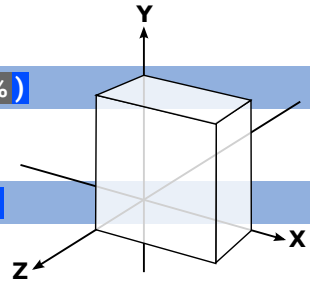
transform: **skewX**(angle)

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**

CSS3

CHEAT SHEET

WEB DESIGN

FLEXBOX, POSITIONING, ALIGNMENT & GRID



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

<https://lenguajecss.com/>

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

BASELINE-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