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CSS SYNTAX, COLORS AND UNITS

CSS

Created by @Manz (https://manz.dev/)

https://lenguajecss.com/

C CSS Syntax

```
tag #id .class [attr] :pseudoclass ::pseudoelement { selector : value ; }
```

COMMENTS (ANNOTATIONS)

```
/* comment */
/* CSS is awesome */
```

S CSS Selectors

SELECTORS & COMBINATORS

PRIMARY

#	element with unique id
.	elements with class
*	all elements (universal)
	inside elements (descendant)

SECONDARY

>	direct childs
+	adjacents siblings
~	siblings (same level)

LOGICAL COMBINATORS

:is(A , B)	group selectors
:where(A , B)	less specific than :is()
:not(S)	not match by S
:has(S)	element w/ childs match by S

ATTRIBUTES

IGNORE CASE SENSITIVE [attr="..." i]

BASIC

[attr]	attr **present**
[attr = "val"]	value **is** val
[attr ^= "val"]	**begins** w/ val
[attr $= "val"]	**ends** w/ val

ADVANCED

:not([attr])	attr **absent**
[attr ~= "val"]	**contains** val
[attr |= "es"]	**contains** es-*
[attr *= "val"]	**includes** val

PSEUDOCLASSES

LINKS

:link :visited	not/visited link
:any-link	links (visited or not)
:target	URL anchor target

LANG

:lang(es)	language match
:dir(val)	direction match

ACTION

:hover	user move mouse/pointer over element
:active	element is being activated by user
:focus :focus-within :focus-visible	w/ focus or not

USER FORM INTERFACE

:enabled :disabled	on/off input state
:checked	elements toggled "on" by user
:indeterminate	input on indeterminate state
:read-only :read-write	input modificable or not
:placeholder-shown	inputs w/ active placeholder
:default	default elements for form (input, option...)
:valid :invalid	userdata pass check validation
:user-valid :user-invalid	idem, with user interaction
:in-range :out-of-range	userdata ok/out of range
:required :optional	required/optional for submit

STRUCTURAL

CHILDS

	CHILDS (SAME)
:first-child	:first-of-type
:last-child	:last-of-type
:nth-child(n)	:nth-of-type(n)
:nth-last-child(n)	:nth-last-of-type(n)
:only-child	:only-of-type

n odd even n of S

OTHERS

:root	root element of the document
:host	root element of shadow dom
:empty	element without contents

PSEUDOELEMENTS

CONTENT

::before / ::after	
::first-line	
::first-letter	text
::file-selector-button	
::marker	list sign

HIGHLIGHT

::selection	selected text of user
::target-text	fragment url style
::spelling-error	::grammar-error
::backdrop	background elements
::placeholder	form text hints

C CSS Colors

COLOR PROPERTIES

```
color: CanvasText color        opacity: 1 alpha
```

COLOR MODELS

alpha 0...1 0%...100%

KEYWORDS

```
keyword transparent currentColor
```

COLOR FORMATS

RGB SPACE

```
rgb( 25% 41% 88% / 50% ) ~~rgba()~~          RGB / A
rgb( 65 106 225 / 50% )                      RGB / A
#41 6A E1 88                                 #RRGGBBAA / #RGBA
hsl( 120deg 25% 75% / 50% ) ~~hsla()~~       HSL / A
hwb( 120deg 55% 25% / 50% )                  HWB / A
```

DEVICE SPACE

```
lab( 41% 60 42 / 50% )                       BW RG BY / alpha
oklab( 51% 0.2 0.1 / 50% )                   BW RG BY / alpha
lch( 41% 99 35deg / 50% )                    BW S T / alpha
oklch( 50% 0.2 26deg / 50% )                 BW S T / alpha
```

COLOR FUNCTIONS / OPERATIONS

SPACE | SRGB | SRGB-LINEAR | DISPLAY-P3 | A98-RGB | PROPHOTO-RGB | REC2020 | XYZ | XYZ-D65 | XYZ-D50

```
color( space p1 p2 p3 )                      color in a spacecolor
light-dark( color lightmode , color darkmode )
```

RELATIVE COLORS

```
color-mix(in space , c1 % , c2 % )           mix colors
rgb( from color , colors / A )               color-based
```

U CSS Values & Units

RESETTING ALL PROPERTIES

```
all: initial value | inherit parent | unset previous
```

UNITS

ABS

px	pixel
cm mm Q	¼mm
in	inches
pc pt	

REL

%	parent size
em rem	root em
ex rex cap rcap	
ch	1 character
rch ic ric lh	1 line
rlh	

VIEWPORT

vw vh vmin vmax vi vb	% viewport
svw svh svmin svmax svi svb	small
lvw lvh lvmin lvmax lvi lvb	large
dvw dvh dvmin dvmax dvi dvb	dynamic

CO

cqw cqh cqmin cqmax cqi cqb	container

V CSS Variables

CUSTOM PROPERTIES

```
-- varname : value ;                         declaring vars
var( -- varname , fallback ...)              using vars
env( environment-variable )                  user-agent vars
```

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BOX MODEL AND BORDERS

CSS

Created by @Manz (https://manz.dev/)

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M CSS Box Model

INTRINSIC SIZES: max-content | min-content | fit-content

DIMENSIONS

```
width: auto | size | %          height: auto | size | %
min-width: 0 | size | %         min-height: 0 | size | %
max-width: none | size | %      max-height: none | size | %
```

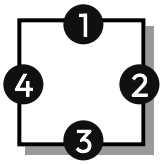
MARGIN/PADDINGS

SPECIFIC MARGINS

```
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/PADDING SHORTHAND

```
margin/padding: [1] [2] [3] [4]
margin/padding: [1] [2 4] [3]
margin/padding: [1 3] [2 4]
margin/padding: [1 2 3 4]
```



OVERFLOW/VISIBILITY

```
overflow-x: visible | hidden | scroll | auto
overflow-y: visible | hidden | scroll | auto
overflow: overflow-x | overflow-y
```

VISIBILITY

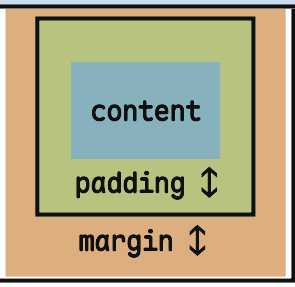
```
visibility: visible | hidden | collapse
```

MODEL BOX TYPES

```
display: inline | none
  inline-block | block
  inline-list-item | list-item
  inline-table | table
  table-cell | table-row
  inline-grid | grid | subgrid
  inline-grid-lanes | grid-lanes
  inline-flex | flex
```

CHANGE BOX MODEL

```
box-sizing: content-box | border-box
```



BI CSS Border Image

BORDER IMAGE

```
border-image-source: none | url( img.ext )
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
```

BORDER IMAGE VALUES

```
-slice → number | %          -width → auto | size | number | %
-outset → number | size
-repeat → repeat | space | round | no-repeat
```

T CSS Tables

```
border-collapse: separate | collapse
border-spacing: 0 | size     caption-side: top | bottom
empty-cells: show | hide     table-layout: auto | fixed
```

B CSS Borders

BORDERS

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

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
```

MAIN SHORTHAND

```
border: width | style | color
```

BORDER STYLES: solid | dotted | dashed | double | groove | ridge | inset | outset

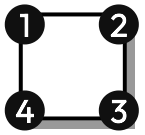
C Rounded Corners

SPECIFIC CORNERS

```
border-top-left-radius: 0 | size | %
border-top-right-radius: 0 | size | %
border-bottom-left-radius: 0 | size | %
border-bottom-right-radius: 0 | size | %
```

MAIN SHORTHAND

```
border-radius: [1][2][3][4]
border-radius: [1][2 4][3]
border-radius: [1 3][2 4]
border-radius: [1 2 3 4]
```



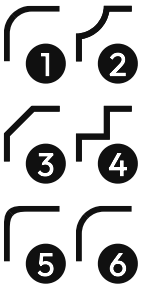
MAIN SHORTHAND WITH HORIZONTAL/VERTICAL RADIUS

```
border-radius: border-radius / border-radius
```

CS Corner Shape

CORNER SHAPE VALUES

```
corner-shape:
  1 round ~ superellipse(2)
  2 scoop ~ superellipse(0.5)
  3 bevel ~ superellipse(1)
  4 notch ~ superellipse(0)
  5 squircle ~ superellipse(4)
  6 straight ~ superellipse(Infinity)
  superellipse( n ) ~ custom shape corner
```



L CSS Lists

LISTS

```
list-style-image: none | url( img.png )
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 | countername | symbols( ... )
list-style: type | position | image
```

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FONTS, TYPOGRAPHY AND TEXTS

CSS

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https://lenguajecss.com/

F Base Fonts

FONTS (TYPOGRAPHY)

```
font-family: font1 , font2 ,..., safe-font ;
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
    number 1~1000
font-width: normal | % | condensed | expanded
    ultra-condensed | extra-condensed | semi-condensed
    semi-expanded | extra-expanded | ultra-expanded
font: style | variant | weight | width | size/
line-height | family | caption | icon | menu
message-box | small-caption | status-bar
```

FF Font Face

FONT LOADING

```
@font-face {
  font-family: font-name ;
  font-display: swap;
  src: url( file.woff2 ) format( "woff2" ),
   url( file.woff ) format( "woff" ),
   url( file.ttf ) format( "truetype" );
  unicode-range: U+000-27FF;
}
```

MC CSS Multi Column

SPANNING & FILLING

```
column-span: none | all
column-fill: auto | balance
```

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 | left | right
always | recto | verso | avoid | page | column
avoid-page | avoid-column
break-inside: auto | avoid | avoid-page
avoid-column
orphans: 2 | number          widows: 2 | number
```

CT CSS Text

TRANSFORMING TEXT

```
text-transform: none | capitalize | uppercase | lowercase
full-width
```

WHITE SPACES & BREAKING WORDS

```
white-space-collapse: break-spaces | collapse | preserve
preserve-breaks
text-wrap-mode: nowrap | wrap          tab-size: 8 | number | size
white-space-trim: none | discard-before | discard-after
discard-inner
white-space: normal | collapse | wrap-mode | trim
```

TEXT-WRAP

```
text-wrap-style:
auto | balance
pretty | stable
```

LINE BREAKING & WORD BOUNDARIES

```
hyphens: none | manual | auto
overflow-wrap: normal | break-word | anywhere
line-break: auto | loose | normal | strict | anywhere
word-break: normal | keep-all | break-all | break-word
```

ALIGNMENT & JUSTIFICATION

```
text-align: left | right | center | justify | start | end | match-parent
text-align-last: auto | left | right | center | justify | start | end
match-parent
text-justify: auto | none | inter-word | inter-character
```

SPACING

```
word-spacing: normal | size          letter-spacing: normal | size
```

EDGE EFFECTS

```
text-indent: 0 | size | hanging | each-line
hanging-punctuation: none | first | last | force-end | allow-end
```

SHADOW EFFECTS

```
text-shadow: none | pos-x | pos-y | blur | color
box-shadow: none | pos-x | pos-y | blur | spread | color | inset
```

TD CSS Text Decoration

LINE OPTIONS

```
text-decoration: none | options
underline | overline | line-though
```

LEVEL 3

```
text-decoration-line: none | line-option | blink
text-decoration-style: solid | double | dotted | dashed | wavy
text-decoration-color: currentColor | color
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
```

STATUS

```
filled | open
EX: open circle;
```

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BACKGROUNDS, IMAGES AND RULES

CSS

Created by @Manz (https://manz.dev/)

https://lenguajecss.com/

CB CSS Backgrounds

BACKGROUND BASE PROPERTIES

```
background-color: transparent currentColor color
background-image: none url( im1.png ) , url( im2.png ) ...
background-repeat:                    also support 2 parameters
  repeat repeat-x repeat-y space round no-repeat
background-attachment: scroll fixed local
```

BACKGROUND POSITION

```
background-position-x: 0% size %
  left center right x-start x-end
background-position-y: 0% size %
  top center bottom y-start y-end
background-position: 0% 0% pos-x pos-y
```

COLOR-STOP

```
color Basic color
color start end
```

RADIUS SIZE

```
closest-side
farthest-side
closest-corner
farthest-corner
```

BACKGROUND MODERN PROPERTIES

```
background-clip:
  border-box padding-box content-box text
background-origin: border-box padding-box content-box
background-size: auto width height contain cover
background: color position size repeat origin clip
  attachment image
```

CR CSS Rules

IMPORTING SYNTAX AND ALTERNATIVE SYNTAX

```
@import "file.css"          @import url( "file.css" )
```

IMPORTING FEATURES — ONLY ON TOP FILE

```
@import "file.css" print                    apply styles if printing
@import "file.css" MQ conditions            if media query is true
@import "file.css" supports( condition )    if feature supported
@import "file.css" layer( layername )       apply styles on layer
```

CASCADE LAYERS — CAN NEST LAYERS

```
@layer { ... }                              create anonymous cascade layer
@layer layername1 , layername2 , ... ;      order layers
@layer layername1 , layername2 , ... { ... }  create/order
@layer layername.sub-layername { ... }      create sublayer
```

SCOPING STYLES

```
@scope { ... }                              limit scope from parent to child (using on inline <style>)
@scope ( selector ) { ... }                 limit scope from selector to child
@scope ( selector ) to ( selector ) { ... } limit between select
```

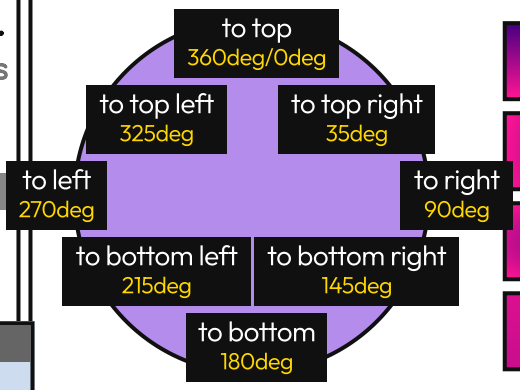
NESTING STYLES

```
A-selector { parent selector
  B-selector {...} equivalent to "A B"
  & B-selector {...} equivalent to "A B"
  B-selector & {...} equivalent to "B A"
  @media ( condition ) {...} nesting media query
  @scope ( selector ) {...} nesting scoping
}
```

CG CSS Gradients

GRADIENTS

DIRECTIONS



linear gradient

radial (circle)

radial (ellipse)

conic gradient

LINEAR GRADIENTS

```
background-image:
  linear-gradient( direction , color-stop1 , ... )
  repeating-linear-gradient( ...same params... )
```

RADIAL GRADIENT (CIRCLE)

```
background-image:
  radial-gradient( circle rsize at pos , col , ... )
  repeating-radial-gradient( ...same params... )
```

RADIAL GRADIENT (ELLIPSE)

```
background-image:
  radial-gradient( ellipse rx ry at pos , col , ... )
  repeating-radial-gradient( ...same params... )
```

CONIC GRADIENTS

```
background-image:
  conic-gradient( from angle at pos , col1 , ... )
  repeating-conic-gradient( ...same params... )
```

CI CSS Images

FUNCTIONS

```
image-set(                                  set alternative image
  url(im1.avif) type("image/avif") ,        by type
  url(im2.webp) 2x , ...                    by density
);
cross-fade( [ image | color ] size % , ... )
```

IMAGES AND OBJECTS

SIZING

```
object-fit: fill contain cover none scale-down
object-position: 50% 50% background-position
object-view-box: rect() inset() xywh()
```

IMAGE PROCESSING

```
image-orientation: from-image none
image-rendering:
```

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EFFECTS, FILTERS AND SHAPES

CSS

Created by @Manz (https://manz.dev/) https://lenguajecss.com/

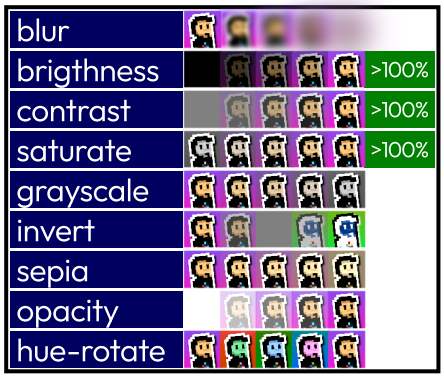
CF CSS Filters

FILTER PROPERTY

```
filter/backdrop-filter: none | filter1 | filter2 | filter3 … ;
```

FILTERS

```
blur( blur )
brightness( number | % )
contrast( number | % )
saturate( number | % )
grayscale( number | % )
invert( number | % )
sepia( number | % )
opacity( number | % )
hue-rotate( angle )
drop-shadow( pos-x pos-y blur color )   (= text-shadow)
```



CM CSS Masks

CLIPPING SHAPE

```
clip-path: none | url( img.png ) | basic-shape | shape-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 | shape-box
mask-origin: border-box | shape-box
mask-size: auto | background-size
mask-composite: add | subtract | intersect | exclude
mask: image | mode | position | /size | repeat | clip | composite
```

C Compositing

COMPOSITING AND BLENDING

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

BLEND MODES

SEPARABLE

NON SEPARABLE

CSO CSS Shape Outside

FLOATING AREA SHAPE

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

CS CSS Shapes

BASIC SHAPES

RECTANGLE

```
rect( x | w | y | h | round | radius )
inset( top | right | bottom | left | round | radius )
xywh( x | y | w | h | round | radius )
```

CIRCLE/ELLIPSE

```
circle( shaperadius | at | position )
ellipse( radius-x | radius-y | at | position )
```

ADVANCED

```
polygon( x0 | y0 , … , xi | yi )
path( svg coords )
shape( from position , shape commands )
```

SHAPE COMMANDS

MOVE COMMANDS

```
from | x | y      move to | x | y      move by | x | y
close   close shape and connect with first point
```

LINE COMMANDS

```
line to | x | y      hline to | x      vline to | y
```

CURVE COMMANDS

```
curve to | x | y   reuse previous point
curve to | x | y | with | Ax | Ay   use control point A
curve to | x | y | with | Ax | Ay | / | Bx | By   ctrl point A,B
```

SYMETRIC CURVE COMMANDS

```
smooth to | x | y   reuse previous point
smooth to | x | y | with | Ax | Ay   use control point A
```

SEGMENT COMMANDS

```
arc to | x | y   implicit arc (radius and shape autocalc)
arc to | x | y | of | r   between current point and x,y
arc to | x | y | of | Rx | Ry   elliptic arc with radius R
```

OPTIONS

```
cw | ccw   clockwise or counterclockwise
large | small   segment size      rotate | angle   (def: 0deg)
```

CP CSS Performance

PERFORMANCE PROPERTIES

```
will-change: property   optimize painting/animation
contain: none | strict | content
  size | inline-size | layout | style | paint
content-visibility: visible | auto | hidden
```

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TRANSITIONS, ANIMATIONS AND TRANSFORMS

CSS

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CT 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 FUNCTIONS

TIMING BASE FUNCTIONS		TIMING STEP FUNCTIONS	
ease	(0.25, 0.1, 0.25, 1)	step-start	steps(1,start)
linear	(0.00, 0.0, 1.00, 1)	step-end	steps(1,end)
ease-in	(0.42, 0.0, 1.00, 1)	steps(n)	steps(n,end)
ease-out	(0.00, 0.0, 0.58, 1)	steps(a,b)	steps(a,b)
ease-in-out	(0.42, 0.0, 0.58, 1)		
cubic-bezier()	custom timing func		
linear()	custom: linear(0, 1) = linear		

CHAINED ANIMATIONS

```
name1 5s linear ,
name2 5s linear 5s ,
name3 6s linear 10s ;
```

CA CSS Animations

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-range-start: normal | name | size | % | size | %
animation-range-end: normal | name | size | % | size | %
animation-range: range-start | range-end
animation-composition: replace | add | accumulate
animation-timeline: auto | none | --name | scroll() | view()
animation: name | duration | timing-function | delay
  iteration-count | direction | fill-mode | play-state
```

SCROLL DRIVEN ANIMATION

TIMELINE FUNCTIONS

```
scroll() → scroll( [ nearest | root | self ] [ x | y ] )
view() → view( [ x | y ] auto | size-start | size-end )
```

TIMELINE PROPERTIES

SCROLL

```
scroll-timeline-name: none | --name
scroll-timeline-axis: x | y
scroll-timeline: name | axis
```

VIEW

```
view-timeline-name: none | --name
view-timeline-axis: x | y
view-timeline-inset: auto | size | % | size | %
view-timeline: name | axis | inset
```

KEYFRAMES

```
@keyframes name {
  0% { /* css */ }
  100% { /* css */ }
}
```

CT CSS Transforms

TRANSFORM PROPERTY

```
transform: none | func1 | func2 ...
```

2D TRANSFORM FUNCTIONS

```
translateX( size | % ) move x-axis
translateY( size | % ) move y-axis
translate( size | % , size | % )
scaleX( number ) resize x-axis
scaleY( number ) resize y-axis
scale( number , number )
skewX( angle ) horizontal shear transform
skewY( angle ) vertical shear transform
skew( angle , angle )
rotate( angle ) spin element angle
matrix( n1 , n2 , n3 , n4 , n5 , n6 )
```

3D TRANSFORM FUNCTIONS

```
translateZ( size ) move along depth
translate3d( size | % , size | % , size )
scaleZ( number ) stretch along depth
scale3d( number , number , number )
rotateX( angle ) spin on x-axis
rotateY( angle ) spin on y-axis
rotateZ( angle ) spin on z-axis
rotate3d( number , number , number , angle )
```

TRANSFORM OPTIONS

```
transform-origin: 50% 50% | pos-x | pos-y | pos-z
transform-style: flat | preserve-3d  preserve 3d child
backface-visibility: visible | hidden  hide rear face
```

PERSPECTIVE OPTIONS

```
perspective: none | size  depth illusion control
perspective-origin: 50% 50% | pos-x | pos-y | pos-z
```

INDIVIDUAL PROPERTIES

TRANSLATE PROPERTY

```
translate: size | %  move only x axis
translate: size | % size | %  only x/y axis
translate: size | % size | % size%  x/y/z axis
```

SCALE PROPERTY

```
scale: num | %  apply same factor to x/y axis
scale: num | % num | %  apply to x/y axis
scale: num | % num | % num | %  x/y/z axis
```

ROTATE PROPERTY

```
rotate: angle  apply to z axis
rotate: axis angle  ex: rotate: y 10deg
rotate: x y z angle  ex: rotate: 1 1 0.5 45deg
```

LENGUAJECSS.COM

LAYOUTS, FLEX & GRID

CSS

Created by @Manz (https://manz.dev/) https://lenguajecss.com/

F CSS Flex

PARENT PROPERTIES — DISPLAY: FLEX

ORDERING AND ORIENTATION

`flex-direction:` row | column | row-reverse | column-reverse

`flex-wrap:` nowrap | wrap | wrap-reverse

`flex-flow:` direction | wrap

PRIMARY / SECONDARY / WRAP AXIS

P `justify-content:` start | center | end | space

S `align-items:` start | center | end | baseline | stretch

W `align-content:` start | center | end | stretch | space

CHILD 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 | space | baseline

`order:` 0 | number reorder items w/ weight

AREA PREFIXES

span-all / span-*

x-* / y-*

span-x-* span-y-*

x-self-* / y-self-*

span-x-self-*

span-y-self-*

P CSS Position

POSITIONING

`position:` static | relative | absolute | fixed | sticky

FLOATING

`float:` none | left | right

`clear:` none | left | right | both

POSITIONING

top: auto | size | %

left: auto | size | %

right: auto | size | %

bottom: auto | size | %

z-index: auto | number

inset: top | right | bottom | left

AP CSS Anchor Position

ANCHOR SETTING

`anchor-name:` none | --name

`anchor-scope:` none | all | --name

`position-anchor:` auto | --name

ANCHOR POSITIONING / SIZING

`position-area:` top | left | right | bottom | prefixes

anchor(--name | top | left | right | bottom)

anchor-size(width | height | block | inline)

GL Grid Lanes

MODERN MASONRY — DISPLAY: GRID-LANES

`item-direction:` row | column | row-reverse | column-reverse

`item-wrap:` wrap | wrap-reverse | nowrap | normal | reverse

`item-pack:` normal | dense | balance

`item-tolerance:` normal | size | % | infinite

`item-flow:` direction | wrap | pack | tolerance

G CSS Gaps

GUTTERS (GRID AND FLEX GAPS)

`row-gap:` 0 | size | % `column-gap:` 0 | size | %

`gap:` row-gap | column-gap

G CSS Grid

PARENT PROPERTIES — DISPLAY: GRID

EXPLICIT GRID

`grid-template-columns:` none | column1 | column2 ...

`grid-template-rows:` none | row1 | row2 ...

`grid-template:` rows / columns

GRID VALUES (ROWS AND COLUMNS)

auto | size | % | fr — automatic size or size/fraction unit

repeat(number , size) — repeat fragments n times

repeat(auto-fill , size) — repeat + fill space & empty

repeat(auto-fit , size) — repeat + fit + remove empty

minmax(min , max) — min <= size range <= max

GRID AREA

`grid-template-areas:` " area1 area2 " ...

area — area name | . — empty area | none — no defined

GRID ALIGMENT

align | start | center | end | stretch

space | space-between | space-around | space-evenly

`justify-content:` normal | align | space

`align-content:` normal | align | space

`justify-items:` normal | align

`align-items:` normal | align | baseline

`place-content:` align-content | justify-content

`place-items:` align-items | justify-items

IMPLICIT GRID

`grid-auto-columns:` auto | size | % — auto-created columns size

`grid-auto-rows:` auto | size | % — auto-created rows size

`grid-auto-flow:` row | column | row dense | column dense

CHILD PROPERTIES

CELLS PLACEMENT

`grid-column-start:` auto | ln `grid-column-end:` auto | ln

`grid-column:` column-start / column-end

`grid-row-start:` auto | ln `grid-row-end:` auto | ln

`grid-row:` row-start / row-end

LINE (LN)

number | [linename] — refer to a numbered or named grid line

span | number | [linename] — span across until grid line

CHILD ALIGMENT

`justify-self:` auto | normal | align

`align-self:` auto | normal | align

`place-self:` align-self | justify-self

AREA PLACEMENT

`grid-area:` area-name named area `order:` 0 | number

GLOBAL SHORTHAND

`grid:` row-start / column-start / row-end / column-end

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MATHEMATICS AND CSS LOGIC

CSS

Created by @Manz (https://manz.dev/)

https://lenguajecss.com/

```
<meta name="viewport" content="initial-scale=1, width=device-width">
```

M CSS Math

CÁLCULOS

```
calc( operations )                                   calc operations
calc(var(--value) + 50px) , calc(25px + 50%)
```

SIGN RELATED

```
abs( number )                                        get absolute value
sign( number )                                       sign of number (-1, 0 or 1)
```

COMPARE FUNCTIONS

```
min( A , B , ... )          max( A , B , ... )
clamp( A , B , C )                                   ~ max(A, min(B, C))
```

STEPPED FUNCTIONS

```
round( method , value , interval )
  method → nearest up down to-zero
mod( A , B )                                         modulus operation
rem( A , B )                                         remainder of trunc division
```

TRIGONOMETRIC FUNCTIONS

```
sin( angle )    asin( number )
cos( angle )    acos( number )
tan( angle )    atan( number )    atan2( Y , X )
```

EXPONENTIAL FUNCTIONS

```
pow( A , B )    sqrt( A )    hypot( A , ...)
log( A , B )    exp( A )
```

F CSS Functions

FUNCTION DEFINITION SYNTAX

```
@function --func-name ( --p1, --p2, ...) {
  result: value; you can use params: var(--p1)
}
```

USE CSS FUNCTION

```
property: --func-name( p1, p2, ... );
```

R CSS Random

RANDOM VALUE FUNCTIONS

```
random( min , max )                                  cached random value
random( min , max , by step )                        step-random
random( --v , min , max )                            non-cached
random( per-element , mn , mx )                      random
```

RANDOM ITEMS FUNCTIONS

```
random-item( v1 , v2 , ... )                         cached random item
random-item( --v , v1 , v2 , ... )                   non-cached
random-item( per-element , v1 , v2 , ... )           random
```

WE CSS When/Else

CONDITIONAL RULES

```
@when ( condition ) { ... }                          conditional rule support
@else ( condition ) { ... }                          conditional else support
```

C CSS Conditionals

MEDIA QUERIES

```
@media ( condition ) { ... }                         standard media query
@media ( cond1 ) and ( cond2 ) { ... }               multi-condition MQ
@media not ( condition ) { ... }                     negative media query
@media print { ... }                                 print media query
```

MEDIA FEATURES (CONDITIONS)

SCREEN FEATURES

```
width/height: size                                   device width/height size
aspect-ratio: number / number                        size proportion
orientation: landscape portrait                      device screen rotation
overflow-block: none scroll paged                    primary axis scrollability
overflow-inline: none scroll                         secondary axis scrollability
display-mode: fullscreen picture-in-picture browser
  minimal-ui standalone                              PWA presentation mode
scripting: none initial-only enabled                 scripting support level
```

PRECISION FEATURES

```
pointer: none coarse fine                            detect primary device
any-pointer: none coarse fine                        detect any device
hover: none hover                                    detect primary device
any-hover: none hover                                detect any device
```

OTHERS FEATURES

```
resolution: ddpx-res infinite                        pixel density
update: none slow fast                               speed update screen
color: number                                        color-depth (8 bits, 16 bits, ...)
```

CONTAINER QUERIES

```
@container name ( condition ) { ... }                MQ for containers
@container name style( prop: value ) { ... }         style check
```

CONTAINER QUERIES PROPERTIES

```
container-name: none name                            container name
container-type: normal size inline-size              axis (block or inline)
container: container-name / container-type
```

CONDITIONAL IF

```
if( true cond : true ; else: false )                 css conditional
if( cond1 : true ; cond2 : true ; ... ; else: false ) multi
if( style( prop: value ) : true ; else: false )      style check
if( supports( prop: value ) : true ; else: false )   support
if( media( condition ) : true ; else: false )        media style
```

SUPPORTS CONDITIONALS

```
@supports ( condition ) { ... }                      check «prop: values» support
@supports not ( condition ) { ... }                  negative check support
@supports ( cond1 ) and or ( cond2 ) { ... }         multi check
@supports selector( selector ) { ... }               check complex selector
@supports font-tech( feature ) { ... }               (variations, palettes, ...)
@supports font-format( format ) { ... }              woff, woff2, ...
```