

CSS3 WEB DESIGN

CHEAT SHEET

CSS SYNTAX, COLORS & UNITS



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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
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

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

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)

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	milliseconds

PERCENTAGES

value %
EXAMPLE 75%

CUSTOM PROPERTIES (CSS VARIABLES)

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

M CSS Media Features

VIEWPORT SIZE

MIN MAX	width
MIN MAX	height

DEVICE SIZE

MIN MAX	device-width	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
MIN MAX	resolution	dpi/dpcm
	orientation	portrait landscape
	scan	progressive interlace
	grid	number

EXAMPLES
device-min-width: 640px
device-aspect-ratio: 16/9
max-color-index: 256
min-resolution: 300dpi
min-monochrome: 2
grid: 1

CSS3

CHEAT SHEET

WEB DESIGN

CSS SYNTAX, COLORS & UNITS



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F Fonts

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-side far-left left center-left

RIGHT LEFT right-side far-right right center-right

RIGHT LEFT behind leftwards rightwards

elevation: angle ABS below level above REL lower higher

VOICE CHARACTERISTICS

speech-rate: number ABS 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

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

text-underline-position: auto under left right

STATUS

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) { ... }

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 } }

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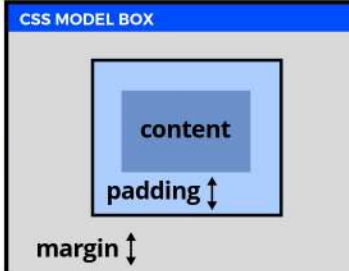


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B CSS Box Model

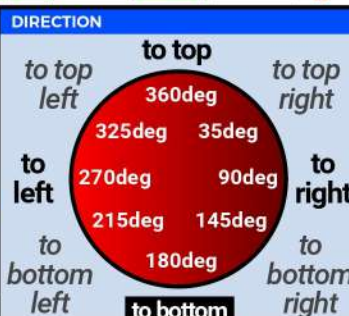
DIMENSIONS	
width: auto size %	height: auto size %
min-width: 0 size %	min-height: 0 size %
max-width: none size %	max-height: none size %
MARGINS/PADDINGS	
SPECIFIC MARGINS	
margin-top: 0 size %	padding-top: 0 size %
margin-right: 0 size %	padding-right: 0 size %
margin-bottom: 0 size %	padding-bottom: 0 size %
margin-left: 0 size %	padding-left: 0 size %
MARGIN SHORTHAND	
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 rsiz at pos color1 start , color2 ...)	repeating-radial-*
GRADIENT OPTIONS	
shape rsiz	
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	

SPECIFIC SHORTHANDS

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

BORDER STYLES	
	solid
	dotted
	dashed
	double
	groove
	ridge
	inset
	outset

2-PARAMETER FORMAT

size-h size-v

1-PARAMETER

size-h = size-v

B Rounded Corners

BORDER IMAGE WIDTH	
auto size number %	
left ← center → right	
top	
bottom	
IMAGE SLICE	
number %	
IMAGE OUTSET	
number size	

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	

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	



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

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. AMPL E 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



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

	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

0% = from
100% = to

M CSS Motion Paths

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)

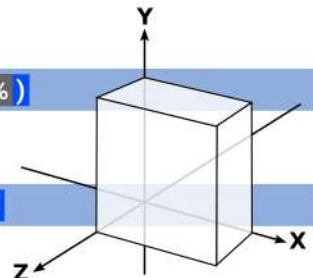
transform: **skewX**(angle)

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

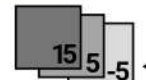
POSITIONING

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**