

CSS Flex & Grid Cheat Sheet

CSS layout

Flex (parent)		
display:	flex, inline-flex	📄
flex-direction:	row, column // Defines main axis →↓	📄
flex-wrap:	no-wrap, wrap, wrap-reverse	📄
flex-flow:	row wrap // Shorthand: direction/wrap	📄
gap:	em, px, % etc. // Gutters between rows & cols	📄
align-items: (axis)	start, center, end, stretch // → 📦📦📦📦	📄
align-content: (axis)	start, center, end, space-between/around // → 📦📦📦📦📦	📄
justify-content: (axis)	start, center, end, space-between/around // → 📦📦📦📦📦	📄
Flex (children)		
flex-grow:	1 // Sets flex grow factor	📄
flex-shrink:	1 // Sets flex shrink factor	📄
flex-basis:	50px // initial size	📄
flex:	1 50px // Shorthand: grow/shrink*/basis* *opt	📄
align-self:	Override 'align-items'	📄
order:	1, 3, -5 etc. // Change order	📄

Grid (parent)		
display:	grid, inline-grid, subgrid	📄
grid-template-columns:	2fr 1fr 1fr, repeat(3, 1fr) // →	📄
grid-template-rows:	1fr 2fr, repeat(2, 1fr) // ↓	📄
gap:	em, px, % etc. // Gutters between rows & cols	📄
grid-template-areas:	"header header" "sidebar content" "footer footer"	📄
grid:	"header header" 1fr "side main 3fr / 2fr 5fr" // areas row / cols	📄
repeat():	repeat(3, 1fr, 10em, auto-fill/fit) // Repeat	📄
minmax():	minmax(50px, auto) // Defines size range	📄
min-content:	min-content // Minimum w/h	📄
max-content:	max-content // Maximum w/h	📄
fit-content:	fit-content // Available space (< fit-content)	📄
fit-content():	fit-content(8ch) // Space formula based	📄
grid-auto-columns:	auto, 90px, min-content, minmax() // →	📄
grid-auto-rows:	auto, 70px, max-content, minmax() // ↓	📄
grid-auto-flow:	row, column, (row/column) dense // →↓	📄
align-items: (axis)	start, center, end, stretch // → 📦📦📦📦	📄
align-content: (axis)	start, center, end, space-between/around // → 📦📦📦📦📦	📄
justify-content: (axis)	start, center, end, space-between/around // → 📦📦📦📦📦	📄
justify-items: (axis)	start, center, end, stretch // → 📦📦📦📦	📄
place-items:	center stretch // Shorthand: align/justify	📄

Grid (children)		
grid-area:	header, etc // Define for grid-template-areas	📄
align-self:	Override 'align-items'	📄
justify-self:	Override 'justify-items'	📄
order:	1, 3, -5 etc. // Change order	📄
grid-column-start:	auto, 2, -1, span 2 // → Start position	📄
grid-column-end:	auto, 2, -1, span 2 // → End position	📄
grid-column:	1, 1 / 3, span 2 // → Shorthand: start/end	📄
grid-column-start:	auto, 2, -1, span 2 // ↓ Start position	📄
grid-row-end:	auto, 2, -1, span 2 // ↓ End position	📄
grid-row:	2, 2 / 4, span 2 // ↓ Shorthand: start/end	📄

Dimensions and Appearance

Box model		
display:	block, inline-block, inline	🔗
width:	em, px, % // Width	🔗
height:	em, px, % // Height	🔗
inline-size:	em, px, % // Size depends writing mode,inline	🔗
block-size:	em, px, % // Size depends writing mode,block	🔗
writing-mode:	horizontal-tb, vertical-rl/lr // Text → ↓	🔗
padding-top:	em, px, % // Space inside element	🔗
padding-right:	em, px, %	🔗
padding-bottom:	em, px, %	🔗
padding-left:	em, px, %	🔗
padding:	em, px // Shorthand: top(,right),bottom(,left)	🔗
margin-top:	em, px, % // Space outside element	🔗
margin-right:	em, px, %	🔗
margin-bottom:	em, px, %	🔗
margin-left:	em, px, %	🔗
margin:	em, px // Shorthand: top(,right),bottom(,left)	🔗
box-sizing:	border-box/content-box // w/h incl. pad./bord.	🔗

Content		
content:	'', 'text', url(), etc.	🔗

Background & Border & Shadow		
background-color:	purple	🔗
background-image:	url('img.png'), linear-gradient(dir,from,to)	🔗
background-origin:	border, padding, content-box	🔗
background-position:	top, bottom, left, right, center, px, em, %	🔗
background-repeat:	no-repeat, repeat, repeat-x/y, space, round	🔗
background-size:	200px 90px, cover, contain, 30%, etc.	🔗
background:	blue // Shorthand: color img orig size repeat	🔗
border-width:	px, em, etc. // top(,right),bottom(,left)	🔗
border-style:	solid, dotted, none // top,right,bottom,left	🔗
border-color:	red #ff0000 (color) // top,right,bottom,left	🔗
border:	1px solid red // Shorthand: width style color	🔗
border-*:	* top/right/bottom/left // e.g. border-top	🔗
border-*-*:	** width/style/color // e.g. border-top-width	🔗
box-shadow:	2px 2px 4px #000 // x y blur-radius color	🔗

Overflow		
overflow-x:	hidden/visible/scroll/auto	🔗
overflow-y:	hidden/visible/scroll/auto	🔗
overflow:	hidden/visible/scroll/auto // Shorthand: x & y	🔗

Floats		
float:	left, right, none // Preferably use flex/grid	🔗

Positioning		
position:	relative, absolute, sticky	🔗
top/bottom/left/right:	0, 4em, 10%, 20px, etc.	🔗

Table		
table-layout:	auto, fixed	🔗
border-collapse:	collapse, separate	🔗

Styling text

Fonts		
color:	purple, 37474f etc	🔗
font-family:	Georgia, serif/Helvetica, sans-serif	🔗
font-size:	em, px, %, etc.	🔗
font-style:	normal, italic	🔗
font-weight:	normal, bold, 400, 700, etc.	🔗
font-variant:	common-ligatures small-caps tabular-nums	🔗
font-stretch:	condensed, expanded // ultra-,extra-,semi-	🔗
text-transform:	uppercase, lowercase, capitalize, etc.	🔗
text-decoration:	none, underline, underline wavy green, etc.	🔗
text-shadow:	1px 1px 2px #000 // x y blur-radius color	🔗

Text layout		
text-align:	left, center, right, justify	🔗
text-align-last:	left, center, right, justify	🔗
text-indent:	0, 2em, 30% // x y blur-radius color	🔗
text-overflow:	ellipsis, clip, etc. // x y blur-radius color	🔗
text-orientation:	mixed, upright, sideways-right, sideways, etc.	🔗
line-height:	1.6, 2em, 150%, 24px	🔗
letter-spacing:	0.3em, 1px, etc.	🔗
word-spacing:	1em, 2rem, 4px, 120%, etc.	🔗
white-space:	normal, nowrap, pre-line, break-spaces, etc.	🔗
word-break:	normal, break-all, break-word, etc.	🔗
direction:	ltr, rtl	🔗
hyphens:	none, manual, auto // Use ­ for hyphen -	🔗
line-break:	auto, anywhere, normal, loose, etc.	🔗
overflow-wrap:	normal, break-word, anywhere	🔗
writing-mode:	horizontal-tb, vertical-rl, vertical-lr	🔗

Styling links

Link states		
a:hover { ... }	Apply styling // :visited,:active etc.	🔗

Styling lists

Lists		
list-style-type:	none, disc, circle, square, decimal	🔗
list-style-position:	inside, outside	🔗
list-style-image:	none, url()	🔗
etc.	// See overview	🔗

Pseudo-elements

Overview		
::before { ... }	content: ... // Inside element on start	🔗
::after { ... }	content: ... // Inside element on end	🔗
etc.	// See overview	🔗

Pseudo-classes

Tree-structural		
:root { ... }	Apply styling/variables // Root of doc.	🔗
:first-child { ... }	Apply styling // First el. of siblings	🔗
:last-child { ... }	Apply styling // Last el. of siblings	🔗
:nth-child(2) { ... }	Apply styling // Pattern matched el.	🔗
:first-of-type { ... }	Apply styling // First type el. of siblings	🔗
:last-of-type { ... }	Apply styling // Last type el. of siblings	🔗
:nth-of-type(2) { ... }	Apply styling // Pattern type matched el.	🔗
etc.	// See overview	🔗

Input		
:enabled { ... }	Apply styling // Enabled state	🔗
:disabled { ... }	Apply styling // Disabled state	🔗
:checked { ... }	Apply styling // Checked state (checkbox/radio)	🔗
:required { ... }	Apply styling // Required state	🔗
:optional { ... }	Apply styling // Optional state	🔗
:valid { ... }	Apply styling // Valid state	🔗
:invalid { ... }	Apply styling // Invalid state	🔗
etc.	// See overview	🔗

Units

Values		
Absolute length unit	px	🔗
Relative length units	em, rem, vw, vh	🔗

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[See Flex & Grid Cheat sheet](#)