

CSS 3

This is a quick reference cheat sheet for CSS goodness, listing selector syntax, properties, units and other useful bits of information.

Getting Started

Introduction

CSS is rich in capabilities and is more than simply laying out pages.

External stylesheet

```
<link href="./path/to/stylesheet/style.css" rel="stylesheet" type="text/css">
```

Internal stylesheet

```
<style>
body {
  background-color: linen;
}
</style>
```

Inline styles

```
<h2 style="text-align: center;">Centered text</h2>
```

Add class

```
<div class="classname"></div>
<div class="class1 ... classn"></div>
```

Support multiple classes on one element.

!important

```
.post-title {
  color: blue !important;
}
```

Overrides all previous styling rules.

Selector

```
h1 { }
#job-title { }
div.hero { }
div > p { }
```

See: [Selectors](#)

Text color

```
color: #2a2aff;
color: green;
color: rgb(34, 12, 64, 0.6);
color: hsla(30 100% 50% / 0.6);
```

See: [Colors](#)

Background

```
background-color: blue;
background-image: url("nyan-cat.gif");
background-image: url("../image.png");
```

See: [Backgrounds](#)

Font

```
.page-title {
  font-weight: bold;
  font-size: 30px;
  font-family: "Courier New";
}
```

See: [Fonts](#)

Position

```
.box {
  position: relative;
  top: 20px;
  left: 20px;
}
```

Animation

```
animation: 300ms linear 0s infinite;

animation: bounce 300ms linear infinite;
```

See: [Animation](#)

Comment

```
/* This is a single line comment */

/* This is a
   multi-line comment */
```

Flex layout

```
div {
  display: flex;
  justify-content: center;
}

div {
  display: flex;
  justify-content: flex-start;
}
```

See: [Flexbox](#) | [Flex Tricks](#)

Grid layout

```
#container {
  display: grid;
  grid: repeat(2, 60px) / auto-flow 80px;
}

#container > div {
  background-color: #8ca0ff;
  width: 50px;
  height: 50px;
}
```

See: [Grid Layout](#)

Variable & Counter

```
counter-set: subsection;
counter-increment: subsection;
counter-reset: subsection 0;

:root {
  --bg-color: brown;
}

element {
  background-color: var(--bg-color);
}
```

CSS Selectors

Examples	
Groups Selector	<pre>h1, h2 { color: red; }</pre>
Chaining Selector	<pre>h3.section-heading { color: blue; }</pre>
Attribute Selector	<pre>div[attribute="SomeValue"] { background-color: red; }</pre>
First Child Selector	<pre>p:first-child { font-weight: bold; }</pre>
No Children Selector	<pre>.box:empty { background: lime; height: 80px; width: 80px; }</pre>

Basic	
*	All elements
div	All div tags
.classname	All elements with class
#idname	Element with ID
div,p	All divs and paragraphs
#idname *	All elements inside #idname
See also: Type / Class / ID / Universal selectors	

Combinators	
div.classname	Div with certain classname
div#idname	Div with certain ID
div p	Paragraphs inside divs

`div ~ p`

P tags preceded by div

See also: [Adjacent](#) / [Sibling](#) / [Child](#) selectors

Attribute selectors

`a[target]`With a **target** attribute`a[target="_blank"]`

Open in new tab

`a[href^="/index"]`Starts with **/index**`[class]="chair"`Starts with **chair**`[class*="chair"]`containing **chair**`[title~="chair"]`Contains the word **chair**`a[href$=".doc"]`Ends with **.doc**`[type="button"]`

Specified type

See also: [Attribute selectors](#)

User action pseudo classes

`a:link`

Link in normal state

`a:active`

Link in clicked state

`a:hover`

Link with mouse over it

`a:visited`

Visited link

Pseudo classes

`p::after`

Add content after p

`p::before`

Add content before p

`p::first-letter`

First letter in p

`p::first-line`

First line in p

`::selection`

Selected by user

`::placeholder`**Placeholder** attribute`:root`

Documents root element

`:target`

Highlight active anchor

`div:empty`

Element with no children

`p:lang(en)`

P with en language attribute

`:not(span)`

Element that's not a span

Input pseudo classes

`input:checked`

Checked inputs

`input:disabled`

Disabled inputs

`input:enabled`

Enabled inputs

<code>input:in-range</code>	Value in range
<code>input:out-of-range</code>	Input value out of range
<code>input:valid</code>	Input with valid value
<code>input:invalid</code>	Input with invalid value
<code>input:optional</code>	No required attribute
<code>input:required</code>	Input with required attribute
<code>input:read-only</code>	With readonly attribute
<code>input:read-write</code>	No readonly attribute

Structural pseudo classes	
<code>p:first-child</code>	First child
<code>p:last-child</code>	Last child
<code>p:first-of-type</code>	First of some type
<code>p:last-of-type</code>	Last of some type
<code>p:nth-child(2)</code>	Second child of its parent
<code>p:nth-child(3n+2)</code>	Nth-child (an + b) formula
<code>p:nth-last-child(2)</code>	Second child from behind
<code>p:nth-of-type(2)</code>	Second p of its parent
<code>p:nth-last-of-type(2)</code>	...from behind
<code>p:only-of-type</code>	Unique of its parent
<code>p:only-child</code>	Only child of its parent

CSS Fonts

Properties	
<code>font-family:</code>	
<code>font-size:</code>	<size>
<code>letter-spacing:</code>	<size>
<code>line-height:</code>	<number>
<code>font-weight:</code>	<number> / bold / normal
<code>font-style:</code>	italic / normal
<code>text-decoration:</code>	underline / none
<code>text-align:</code>	left / right center / justify

Shorthand

font:	<i>italic</i>	400	14px	/	1.5	sans-serif
	style	weight	size (required)		line-height	family (required)

Example

```
font-family: Arial, sans-serif;
font-size: 12pt;
letter-spacing: 0.02em;
```

Case

```
/* Hello */
text-transform: capitalize;

/* HELLO */
text-transform: uppercase;

/* hello */
text-transform: lowercase;
```

@font-face

```
@font-face {
  font-family: 'Glegoo';
  src: url('../Glegoo.woff');
}
```

CSS Colors

Named color

```
color: red;
color: orange;
color: tan;
color: rebeccapurple;
```

Hexadecimal color

```
color: #090;
color: #009900;
color: #090a;
color: #009900aa;
```

rgb() Colors

```
color: rgb(34, 12, 64, 0.6);
color: rgba(34, 12, 64, 0.6);
color: rgb(34 12 64 / 0.6);
color: rgba(34 12 64 / 0.3);
color: rgb(34.0 12 64 / 60%);
```

```
color: hsl(30, 100%, 50%, 0.6);
color: hsla(30, 100%, 50%, 0.6);
color: hsl(30 100% 50% / 0.6);
color: hsla(30 100% 50% / 0.6);
color: hsl(30.0 100% 50% / 60%);
color: hsla(30.2 100% 50% / 60%);
```

Other

```
color: inherit;
color: initial;
color: unset;
color: transparent;

color: currentcolor; /* keyword */
```

CSS Backgrounds

Properties

background:	(Shorthand)
background-color:	See: Colors
background-image:	url(...)
background-position:	left/center/right top/center/bottom
background-size:	cover X Y
background-clip:	border-box padding-box content-box
background-repeat:	no-repeat repeat-x repeat-y
background-attachment:	scroll/fixed/local

Shorthand

background:	#ff0	url(a.jpg)	left	top	/	100px auto	no-repeat	fixed;
background:	#abc	url(b.png)	center	center	/	cover	repeat-x	local;
	color	image	posX	posY		size	repeat	attach..

Examples

```
background: url(img_man.jpg) no-repeat center;

background: url(img_flwr.gif) right bottom no-repeat, url(paper.gif) left top repeat;

background: rgb(2,0,36);
background: linear-gradient(90deg, rgba(2,0,36,1) 0%, rgba(13,232,230,1) 35%, rgba(0,212,255,1) 100%);
```


CSS The Box Model

Maximums/Minimums

```
.column {  
  max-width: 200px;  
  width: 500px;  
}
```

See also: [max-width](#) / [min-width](#) / [max-height](#) / [min-height](#)

Margin / Padding

```
.block-one {  
  margin: 20px;  
  padding: 10px;  
}
```

See also: [Margin](#) / [Padding](#)

Box-sizing

```
.container {  
  box-sizing: border-box;  
}
```

See also: [Box-sizing](#)

Visibility

```
.invisible-elements {  
  visibility: hidden;  
}
```

See also: [Visibility](#)

Auto keyword

```
div {  
  margin: auto;  
}
```

See also: [Margin](#)

Overflow

```
.small-block {  
  overflow: scroll;  
}
```

See also: [Overflow](#)

animation:	bounce	300ms	linear	100ms	infinite	alternate-reverse	both	reverse
	name	duration	timing-	delay	count	direction	fill-	play-

Properties

animation:	(shorthand)
animation-name:	<name>
animation-duration:	<time>ms
animation-timing-function:	ease / linear / ease-in / ease-out / ease-in-out
animation-delay:	<time>ms
animation-iteration-count:	infinite / <number>
animation-direction:	normal / reverse / alternate / alternate-reverse
animation-fill-mode:	none / forwards / backwards / both / initial / inherit
animation-play-state:	normal / reverse / alternate / alternate-reverse

See also: [Animation](#)

Example

```
/* @keyframes duration | timing-function | delay |
   iteration-count | direction | fill-mode | play-state | name */
animation: 3s ease-in 1s 2 reverse both paused slidein;

/* @keyframes duration | timing-function | delay | name */
animation: 3s linear 1s slidein;

/* @keyframes duration | name */
animation: 3s slidein;

animation: 4s linear 0s infinite alternate move_eye;
animation: bounce 300ms linear 0s infinite normal;
animation: bounce 300ms linear infinite;
animation: bounce 300ms linear infinite alternate-reverse;
animation: bounce 300ms linear 2s infinite alternate-reverse forwards normal;
```

Javascript Event

```
.one('webkitAnimationEnd oanimationend msAnimationEnd animationend')
```

CSS Flexbox

```
.container {  
  display: flex;  
}  
  
.container > div {  
  flex: 1 1 auto;  
}
```

```
.container {  
  
  display: flex;  
  display: inline-flex;  
  
  flex-direction: row;          /* ltr - default */  
  flex-direction: row-reverse;  /* rtl */  
  flex-direction: column;       /* top-bottom */  
  flex-direction: column-reverse; /* bottom-top */  
  
  flex-wrap: nowrap; /* one-line */  
  flex-wrap: wrap;   /* multi-line */  
  
  align-items: flex-start; /* vertical-align to top */  
  align-items: flex-end;   /* vertical-align to bottom */  
  align-items: center;     /* vertical-align to center */  
  align-items: stretch;   /* same height on all (default) */  
  
  justify-content: flex-start; /* [xxx      ] */  
  justify-content: center;     /* [   xxx  ] */  
  justify-content: flex-end;   /* [      xxx] */  
  justify-content: space-between; /* [x   x   x] */  
  justify-content: space-around; /* [ x   x   x ] */  
  justify-content: space-evenly; /* [ x   x   x ] */  
  
}
```

```
.container > div {  
  
  /* This: */  
  flex: 1 0 auto;  
  
  /* Is equivalent to this: */  
  flex-grow: 1;  
  flex-shrink: 0;  
  flex-basis: auto;  
  
  order: 1;  
  
  align-self: flex-start; /* left */  
  margin-left: auto;      /* right */
```

CSS Flexbox Tricks

Vertical center

```
.container {  
  display: flex;  
}  
  
.container > div {  
  width: 100px;  
  height: 100px;  
  margin: auto;  
}
```

Vertical center (2)

```
.container {  
  display: flex;  
  
  /* vertical */  
  align-items: center;  
  
  /* horizontal */  
  justify-content: center;  
}
```

Reordering

```
.container > .top {  
  order: 1;  
}  
  
.container > .bottom {  
  order: 2;  
}
```

Mobile layout

```
.container {  
  display: flex;  
  flex-direction: column;  
}  
  
.container > .top {  
  flex: 0 0 100px;  
}  
  
.container > .content {  
  flex: 1 0 auto;  
}
```

A fixed-height top bar and a dynamic-height content area.

Table-like

```
/* the 'px' values here are just suggested percentages */
.container > .checkbox { flex: 1 0 20px; }
.container > .subject { flex: 1 0 400px; }
.container > .date { flex: 1 0 120px; }
```

This creates columns that have different widths, but size accordingly according to the circumstances.

Vertical

```
.container {
  align-items: center;
}
```

Vertically-center all items.

Left and right

```
.menu > .left { align-self: flex-start; }
.menu > .right { align-self: flex-end; }
```

CSS Grid Layout

Grid Template Columns

```
#grid-container {
  display: grid;
  width: 100px;
  grid-template-columns: 20px 20% 60%;
}
```

fr Relative Unit

```
.grid {
  display: grid;
  width: 100px;
  grid-template-columns: 1fr 60px 1fr;
}
```

Grid Gap

```
/*The distance between rows is 20px*/
/*The distance between columns is 10px*/
#grid-container {
  display: grid;
  grid-gap: 20px 10px;
}
```

CSS Block Level Grid

```
#grid-container {
  display: block;
}
```

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

Example

```
.item {  
  grid-row: 1 / span 2;  
}
```

CSS Inline Level Grid

```
#grid-container {  
  display: inline-grid;  
}
```

minmax() Function

```
.grid {  
  display: grid;  
  grid-template-columns: 100px minmax(100px, 500px) 100px;  
}
```

grid-row-start & grid-row-end

CSS syntax:

```
grid-row-start: auto|row-line;
```

```
grid-row-end: auto|row-line|span n;
```

Example

```
grid-row-start: 2;  
grid-row-end: span 2;
```

CSS grid-row-gap

```
grid-row-gap: length;
```

Any legal length value, like px or %. 0 is the default value

CSS grid-area

```
.item1 {  
  grid-area: 2 / 1 / span 2 / span 3;  
}
```

Justify Items

```
#container {  
  display: grid;  
  justify-items: center;  
  grid-template-columns: 1fr;  
  grid-template-rows: 1fr 1fr 1fr;  
  grid-gap: 10px;  
}
```

CSS grid-template-areas

```
.grid-container {  
  display: grid;  
  grid-template-areas:  
    'nav nav . .'  
    'nav nav . .';  
}
```

Justify Self

```
#grid-container {  
  display: grid;  
  justify-items: start;  
}  
  
.grid-items {  
  justify-self: end;  
}
```

The grid items are positioned to the right (end) of the row.

Align Items

```
#container {  
  display: grid;  
  align-items: start;  
  grid-template-columns: 1fr;  
  grid-template-rows: 1fr 1fr 1fr;  
  grid-gap: 10px;  
}
```

CSS Dynamic Content

Variable

Define CSS Variable

```
:root {  
  --first-color: #16f;  
  --second-color: #ff7;  
}
```

Variable Usage

```
#firstParagraph {  
  background-color: var(--first-color);  
  color: var(--second-color);  
}
```

See also: [CSS Variable](#)

Counter

```
/* Set "my-counter" to 0 */  
counter-set: my-counter;
```

```
/* Decrement "my-counter" by 1 */  
counter-increment: my-counter -1;
```

```
/* Reset "my-counter" to 0 */  
counter-reset: my-counter;
```

See also: [Counter set](#)

Using counters

```
body { counter-reset: section; }  
  
h3::before {  
  counter-increment: section;  
  content: "Section." counter(section);  
}  
  
ol {  
  counter-reset: section;  
  list-marker-type: none;  
}  
  
li::before {  
  counter-increment: section;  
  content: counters(section, ".") " ";  
}
```

Css 3 tricks

Scrollbar smooth

```
html {  
  scroll-behavior: smooth;  
}
```

[Click me](#), the page will scroll smoothly to Getting started

Also see

[CSS selectors cheatsheet](#) (frontend30.com)

[MDN: Using CSS flexbox](#)

[Ultimate flexbox cheatsheet](#)

[GRID: A simple visual cheatsheet](#)

[CSS Tricks: A Complete Guide to Grid](#)

[Browser support](#)

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