What makes a website unique is its styling. A must-have skill for every web developer.
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</tr>
</tbody>
</table>
Backgrounds

`background`
`background-image`
`background-position`
`background-size`
`background-repeat`
`background-attachment`
`background-origin`
`background-clip`
`background-color`

`background-image`
`url`
`gradients`
`none`

`background-position`
`top left | top center | top right | center left | center center | center right | bottom left | bottom center | bottom right`
`x-% y-%`
`x-pos y-pos`

`background-size`
`length`
`%`
`auto | cover | contain`

`background-repeat`
`repeat | repeat-x | repeat-y | no-repeat`
background-attachment
scroll | fixed | local

background-origin
border-box | padding-box | content-box

background-clip
border-box | padding-box | content-box

background-color
color
transparent

Border

border
border-width
border-style
border-color

border-width
thin | medium | thick | length

border-style
none | hidden | dotted |
dashed | solid | double |
groove | ridge | inset | outset

border-color
color

border-bottom
border-bottom-width
border-style
border-color

border-left
border-left-width
border-style
border-color

border-left-style
border-style

border-right-color
border-color

border-right-width
thin | medium | thick | length

border-top-width
thin | medium | thick | length

border-break
border-width
border-style

color

close

border-bottom-color
border-color

border-bottom-style
border-style

border-left-color
border-color

border-left-width
thin | medium | thick length

border-right-style
border-style

border-top
border-top-width
border-style
border-color
border-top-color
border-color

border-top-style
border-style

box-shadow
inset || [ length, length, length, length || <color> ]
none

border-collapse
collapse | separate

border-image
image
[ number / % border-width stretch | repeat | round ]
none

border-right
border-right-width
border-style
border-color

border-radius
border-radius
border-top-right-radius
border-bottom-right-radius
border-bottom-left-radius
border-top-left-radius

border-top-right-radius
length

border-bottom-right-radius
length

border-bottom-left-radius
length
Box Model

float
left | right | none

height
auto
length
%

max-height
none
length
%

max-width
none
length%

min-height
none
length%

width
auto
%
length

margin
margin-top
margin-right
margin-bottom
margin-left
margin-bottom
auto
c
dl

\%

margin-left
auto

height
d

margin-right
auto

height
d

margin-top
auto

length
d

\%

padding
padding-top

padding-right

padding-bottom

padding-left

padding-bottom

length
d

\%

padding-left

length
d

\%

padding-right

length
d

\%
padding-top
length
%

display

overflow
visible | hidden | scroll | auto | no-display | no-content
overflow-x
overflow-y
overflow-style
auto | marquee-line | marqueeblock
overflow-x
visible | hidden | scroll | auto | no-display | no-content

visibility
visible | hidden | collapse

clear
left | right | both | none

Font

font
caption
font-style
font-variant
font-weight
font-size/line-height
**font-family**
caption | icon | menu | messagebox | small-caption | status-bar

**font-size-adjust**
none | inherit

**font-family**
serif | sans-serif | Font Name

**font-style**
normal | italic | oblique | inherit

**font-variant**
normal | small-caps | inherit

**font-size**
xx-small | x-small | small | medium | large | x-large | xxlarge |
smaller | larger |
inherit

**font-weight**
normal | bold | bolder | lighter | 100 | 200 | 300 | 400 | 500 | 600 |
700 | 800 | 900 | inherit

**Text**

**direction**
ltr | rtl | inherit

**hanging-punctuation**
none | [ start | end | endedge ]

**letter-spacing**
normal

length

%
text-outline
none
color
length

unicode-bidi
normal | embed | bidi-override

white-space
normal | pre | nowrap | pre-wrap | pre-line

white-space-collapse
perserve | collapse | pre-servebreaks | discard

punctuation-trim
none | [ start | end | adjacent ]

text-align
start | end | left | right | center | justify

text-align-last
start | end | left | right | center | justify

text-decoration
none | underline | overline | line-thorugh | blink

text-shadow
none
color
length

word-break
normal | keep-all | loose | break-strict | break-all

word-wrap
normal
nowrap

text-emphasis
none | [ [ accent | dot | circle | disc | [ before | after ]?] ]
text-indent
length

%

text-justify
auto | inter-word | interideograph | inter-cluster | distribute | kashida | tibetan

text-transform
none | capitalize | uppercase | lowercase

text-wrap
normal | unrestricted | none | suppress

word-spacing
normal
length
%

Column

column-count
auto
number

column-fill
auto | balance

column-gap
normal
length

column-rule
column-rule-width
column-rule-style
column-rule-color
column-rule-style
border-style

_columns
_column-width
_column-count

column-rule-width
thin | medium | thick

length

column-span
1 | all

column-width
auto
length

Colors

color
inherit

color

opacity
inherit
number

Table

border-collapse
collapse | separate

empty-cells
show | hide

border-spacing
length length

table-layout
auto | fixed

caption-side
top | bottom | left | right

**Speech**

cue
cue-before
cue-after
cue-before
url [ silent | x-soft | soft | medium | loud | x-loud | none | inherit ]
number
%
mark
mark-before
mark-after
mark-before
string
mark-after
string
voice-pitch-range
x-low | low | medium | high | xhigh | inherit
number
voice-stress
strong | moderate | none | reduced | inherit
voice-volume
silent | x-soft | soft | medium | loud | x-loud | inherit
number
%
**cue-after**
url [ silent | x-soft | soft | medium | loud | x-loud | none | inherit ]
number
%

**pause**
pause-before

pause-after

**pause-before**
none | x-weak | weak | medium | strong | x-strong | inherit
time

**phonemes**
string

**voice-duration**
time

**voice-family**
inherit | [ <specific-voice, age, generic-voice, number> ]

**voice-rate**
x-slow | slow | medium | fast | x-fast | inherit
%

**voice-pitch**
x-low | low | medium | high | xhigh | inherit
number
%

**caption-side**
top | bottom | left | right

**rest**
rest-before

rest-after

rest-before
none | x-weak | weak | medium | strong | x-strong | inherit
time

rest-after
none | x-weak | weak | medium | strong | x-strong | inherit
time

speak
none | normal | spell-out | digits | literal-punctuation | no-punctuation | inherit-number

List & Markers

list-style

list-style-type

list-style-position

list-style-image

list-style-image
none

url

list-style-type
none | asterisks | box | check | circle | diamond | disc | hyphen | square | decimal | decimal-leading-zero | lower-roman | upper-roman | lower-alpha | upper-alpha | lower-greek | lower-latin | upper-latin | hebrew | armenian | georgian | cjk-ideographic | hiragana | katakana | hiragana-iroha | katakana-iroha | footnotes

marker-offset
auto

length
Animations

animations
animation-name
animation-duration
animation-timing-function
animation-delay
animation-iteration-count
animation-direction

animation-name
none | IDENT

animation-duration
time

animation-timing-function
ease | linear | ease-in | ease-out | ease-in-out | cubic-Bezier
(number, number, number, number)

animation-delay
time

animation-iteration-count
inherit
number

animation-direction
normal | alternate

animation-play-state
running | paused

rotation
angle

rotation-point

position (paired value off-set)
Transitions

transitions
transitions-property
transitions-duration
transitions-timing-function
transitions-delay
transitions-delay
time
transitions-duration
time
transitions-property
none | all
transition-timing-function
ease | linear | ease-in | ease-out | ease-in-out | cubicBezier(
number, number, number, number)

UI

appearance
normal | inherit | [icon | window | desktop | work-space | document |
tooltip | dialog | button | push-button | hyperlink | radio-button |
checkbox | menu-item | tab | menu | menubar | pull-down-menu |
pop-up-menu | list-menu | radio-group | checkbox-group | outline-tree |
range | field | combo-box | signature | password]
cursor
auto | crosshair | default | pointer | move | e-resize | neresize |
w-resize | n-resize | se-resize | sw-resize | swresize | s-resize |
w-resize | text | wait | help
url

icon
auto | inherit
url
**nav-index**
auto | inherit

**number**

**nav-up**
avto | inherit <id> [current | root | <target-name>]

**nav-right**
avto | inherit <id> [current | root | <target-name>]

**nav-down**
avto | inherit <id> [current | root | <target-name>]

**nav-left**
avto | inherit <id> [current |
root | <target-name>]

**resize**
none | both | horizontal |
vertical | inherit
## Pseudo-Class

<table>
<thead>
<tr>
<th>Pseudo-ClassName</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>:active</td>
<td>an activated element</td>
</tr>
<tr>
<td>:focus</td>
<td>an element while the element has focus</td>
</tr>
<tr>
<td>:hover</td>
<td>an element when you mouse over it</td>
</tr>
<tr>
<td>:link</td>
<td>an unvisited link</td>
</tr>
<tr>
<td>:disabled</td>
<td>an element while the element is disabled</td>
</tr>
<tr>
<td>:enabled</td>
<td>an element while the element is enabled</td>
</tr>
<tr>
<td>:checked</td>
<td>an element that is checked</td>
</tr>
<tr>
<td>:selection</td>
<td>an element that is currently selected or highlighted by the user</td>
</tr>
<tr>
<td>:lang</td>
<td>allows the author to specify a language to use in a specified element</td>
</tr>
<tr>
<td>:nth-child(n)</td>
<td>an element that is the n-th sibling</td>
</tr>
<tr>
<td>:nth-last-child(n)</td>
<td>an element that is the n-th sibling counting from the last sibling</td>
</tr>
<tr>
<td>:first-child</td>
<td>an element that is the first sibling</td>
</tr>
<tr>
<td>:last-child</td>
<td>an element that is the last sibling</td>
</tr>
<tr>
<td>:only-child</td>
<td>an element that is the only child</td>
</tr>
<tr>
<td>:nth-of-type(n)</td>
<td>an element that is the n-th sibling of its type</td>
</tr>
<tr>
<td>:nth-last-of-type(n)</td>
<td>an element that is the n-th sibling of its type counting from the last sibling</td>
</tr>
<tr>
<td>:last-of-type</td>
<td>an element that is the last sibling of its type</td>
</tr>
<tr>
<td>:first-of-type</td>
<td>an element that is the first sibling of its type</td>
</tr>
<tr>
<td>:only-of-type</td>
<td>an element that is the only child of its type</td>
</tr>
<tr>
<td>:empty</td>
<td>an element that has no children</td>
</tr>
<tr>
<td>:root</td>
<td>root element within the document</td>
</tr>
<tr>
<td>:not(x)</td>
<td>an element not represented by the argument ‘x’</td>
</tr>
<tr>
<td>:target</td>
<td>a target element as specified by a target in a UR</td>
</tr>
</tbody>
</table>
### Pseudo-Element

<table>
<thead>
<tr>
<th>Pseudo-Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>::first-letter</td>
<td>Adds special style to the first letter of a text</td>
</tr>
<tr>
<td>::first-line</td>
<td>Adds special style to the first line of a text</td>
</tr>
<tr>
<td>::before</td>
<td>Inserts some content before the content of an element</td>
</tr>
<tr>
<td>::after</td>
<td>Inserts some content after the content of an element</td>
</tr>
</tbody>
</table>

### Absolute Measurement

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>percentage</td>
</tr>
<tr>
<td>cm</td>
<td>centimeter</td>
</tr>
<tr>
<td>in</td>
<td>inch</td>
</tr>
<tr>
<td>mm</td>
<td>milimeter</td>
</tr>
<tr>
<td>pc</td>
<td>pica (1p = 12 points)</td>
</tr>
<tr>
<td>pt</td>
<td>point (1pt = 1/72 inch)</td>
</tr>
<tr>
<td>px</td>
<td>pixel (1px = 1/96 inch)</td>
</tr>
</tbody>
</table>

### Relative Measurement

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ch</td>
<td>width of the “0” glyph found in the font for the font size used to render</td>
</tr>
<tr>
<td>em</td>
<td>1em = current font size of current element</td>
</tr>
<tr>
<td>ex</td>
<td>x-height of the element’s font</td>
</tr>
<tr>
<td>gd</td>
<td>the grid defined by ‘layout-grid’</td>
</tr>
<tr>
<td>rem</td>
<td>the font size of the root element</td>
</tr>
</tbody>
</table>
### Angles

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>deg</td>
<td>degrees</td>
</tr>
<tr>
<td>grad</td>
<td>grads</td>
</tr>
<tr>
<td>rad</td>
<td>radians</td>
</tr>
<tr>
<td>turn</td>
<td>turns</td>
</tr>
</tbody>
</table>

### Time

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ms</td>
<td>mili-seconds</td>
</tr>
<tr>
<td>s</td>
<td>seconds</td>
</tr>
</tbody>
</table>

### Frequency

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hz</td>
<td>hertz</td>
</tr>
<tr>
<td>kHz</td>
<td>kilo-hertz</td>
</tr>
</tbody>
</table>
Colors

<table>
<thead>
<tr>
<th>color name</th>
<th>red, blue, green, dark green</th>
</tr>
</thead>
<tbody>
<tr>
<td>rgb ((x,y,z))</td>
<td>red = rgb(255,0,0)</td>
</tr>
<tr>
<td>rgb ((x%,y%,z%))</td>
<td>red = rgb(100%,0,0)</td>
</tr>
<tr>
<td>rgba ((x,y,z,\text{alpha}))</td>
<td>red = rgba(255,0,0,0)</td>
</tr>
<tr>
<td>#rrggbb</td>
<td>red = #ff0000 (or shorthand - #f00)</td>
</tr>
<tr>
<td>hsl (\text{hue}, \text{saturation}, \text{lightness})</td>
<td>red = hsl (0, 100%, 50%)</td>
</tr>
</tbody>
</table>

flavor

An accent color (typically chosen by the user) to customize the user interface of the user agent itself.

currentColor

computer value of the ‘currentColor’ keyword is the computed value of the ‘color’ property

Selector Types

<table>
<thead>
<tr>
<th>Name</th>
<th>Info</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal</td>
<td>Any element</td>
<td>* { font: 10px Arial; }</td>
</tr>
<tr>
<td>Type</td>
<td>Any element of that type</td>
<td>h1 { text-decoration: underline; }</td>
</tr>
<tr>
<td>Grouping</td>
<td>Multiple elements of different types</td>
<td>h1, h2, h3 { font-family: Verdana; }</td>
</tr>
<tr>
<td>Class</td>
<td>Multiple elements of different types when you don’t want to affect all instances of that type</td>
<td>.sampleClass { text-decoration: underline; }</td>
</tr>
<tr>
<td>Id</td>
<td>A single element type when you don’t want to affect all instances of that type</td>
<td>#sampleID { text-decoration: underline; }</td>
</tr>
<tr>
<td>Descendant</td>
<td>An element that is below (in the document tree) another element - no matter how many levels</td>
<td>#gallery h1 { text-decoration: underline; }</td>
</tr>
<tr>
<td>Element Type</td>
<td>Description</td>
<td>CSS Selector</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Child</td>
<td>An element that is directly below (in the document tree) another element</td>
<td>#title &gt; p { font-weight: bold; }</td>
</tr>
<tr>
<td>Adjacent Sibling</td>
<td>All elements that share the same parent and elements are in the same immediate sequence</td>
<td>h1 + p { font-style: italic; }</td>
</tr>
<tr>
<td>General Sibling</td>
<td>All elements that share the same parent and elements are in the same sequence (not necessarily immediate)</td>
<td>h1 ~ p { font-style: italic; }</td>
</tr>
<tr>
<td>Attribute</td>
<td>An element that matches the attribute listed</td>
<td>E[selected] - att whatever the value E[att=&quot;val&quot;] - att with a specific value E[rel~=&quot;next&quot;] - att with a value is a whitespace separated list *[lang=&quot;en&quot;] - att value either being exactly &quot;val&quot; or beginning with &quot;val&quot; immediately followed by &quot;-&quot; E[att^=&quot;val&quot;] - att value that begins with the prefix &quot;val&quot;</td>
</tr>
</tbody>
</table>
Outline

outline
outline-color
outline-style
outline-width

outline-offset
inherit
length

outline-style
none | dotted | dashed | solid | double | groove | ridge | inset | outset

outline-width
thin | medium | thick
length

3D / 2D Transform

backface-visibility
visible | hidden

perspective
none
number

perspective-origin
[[ percentage> | <length> | left | center | right ] [ <percentage> | <length> | top | center | bottom ]? ] <length> ] | [ [ left | center | right ] || [ top | center | bottom ] ] <length> ]

transform
none | matrix | matrix3d | translate3d | translateX | translateY | translateZ | scale | scale3d | scaleX | scaleY | scaleZ | rotate | rotate3d | rotateX | rotateY | rotateZ | skewX | skewY | skew | perspective
transform-origin
[[ [ <percentage> | <length> | left | center | right ] [ <percentage> | <length> | top | center | bottom ]? ] <length> ] || [ [ left | center | right ] || [ top | center | bottom ] ] <length> ]

transform-style
flat | preserve-3d

Generated Content

bookmark-label
content
attr
string

bookmark-level
none
integer

bookmark-target
self
url
attr

border-length
self
url
attr

content
normal | none | inhibit
url

counter-reset
none
identifier number

crop
auto
shape
display
normal | none | list-item
float-offset
length length
hyphenate-after
auto
integer
counter-increment
none
identifier number
hyphenate-lines
no-limit
integer
hyphenate-resource
none
url
hyphens
none | manual | auto
image-resolution
normal | auto
dpi
hyphenate-before
auto
integer
hyphenate-character
auto
string
marks
[crop || cross ] | none

move-to
normal | here

identifier

page-policy
start | first | last

quotes
none

string string string string string

string-set
identifier

content-list

text-replace
none

[<string> <string>]+

Line Box

alignment-adjust
auto | baseline | before-edge | text-before-edge | middle | central | after-edge | textafter-edge | ideographic | alphabetic | hanging | mathematical

length
%

alignment-baseline
baseline | ise-script | beforeedge | text-before-edge | afteredge | text-after-edge | central | middle | ideographic | alphabetic | hanging | mathematical

baseline-shift
baseline | sub | super
length
%

dominant-baseline
auto | use-script | no-change | reset-size | alphabetic | hanging | ideographic | mathematical | central | middle | text-after-edge | text-before-edge

drop-initial-after-align
alignment-baseline

drop-initial-after-align
central | middle | after-edge | text-after-edge | ideographic | alphabetic | mathematical
%

drop-initial-before-align
caps-height
alignment-baseline

drop-initial-before-adjust
before-edge | text-before-edge | central | middle | hanging | mathematical
length
%

drop-initial-value
initial
integer

drop-initial-size
auto
integer
%

line

inline-box-align
initial | last
integer

line-height
normal
number
length
%

line-stacking
line-stacking-strategy
line-stacking-ruby
line-stacking-shift

line-stacking-strategy
inline-line-height | block-lineheight | max-height | gridheight

line-stacking-ruby
exclude-ruby | include-ruby

line-stacking-shift
consider-shifts | disregardshifts

line-stacking
line-stacking-strategy
line-stacking-ruby
line-stacking-shift

text-height
auto | font-size | text-size |
max-size

vertical-align
Baseline | sub | super | top | text-top | middle | bottom | text-bottom
length
%
Hyperlink

target
  target-name
  target-new
  target-position

target-name
  current | root | parent | new |
  modal
  string

target-new
  window | tab | none

target-position
  above | behind | front | back

Positioning

bottom
  auto
  %
  length

right
  auto
  %
  length

clip
  shape
  auto

top
  auto
length

left
auto

length

z-index
auto

Number

position
static | relative | absolute | fixed

Ruby

ruby-align
auto | start | left | center | end | right | distribute-letter |
    distribute-space | line-edge

ruby-overhang
auto | start | end | none

ruby-position
before | after | right | inline

ruby-span
attr(x) | none

Paged Media

fit
fill | hidden | meet | slice

fit-position
[top | center | bottom] | [left | center | right]

length
%  

orphans
integer

image-orientation
auto

angle

page
auto

identifier

page-break-after
auto | always | avoid | left | right

page-break-before
auto | always | avoid | left | right

page-break-inside
auto | avoid

size
auto | landscape | portrait

length

windows
integer