



# A LANGUAGE FOR SITES

## WHAT IS CSS?

**CSS STANDS FOR** cascading style sheets - **a styling language** used to describe the presentation semantics of a document written in a markup language

**CSS ENABLES THE SEPARATION OF DOCUMENT CONTENT** (written in HTML or a similar markup language) from document presentation, including elements such as the layout, colors, and fonts.

## WHAT IS CSS3?

it is the latest and greatest version of CSS

**CSS3** has been under development since **2005**



WITH CSS

WITHOUT CSS

# MOST IMPORTANT PROPERTIES OF CSS3

## BORDER RADIUS

allows you to round corners of every HTML element that has a border or background



## OPACITY

the opacity ranges from 0 (fully transparent) to 1 (opaque, solid) - in this case it is set to be 50% opaque



## BORDER-IMAGE

an image file that represents the four corners and four sides of the border as well as background of the element

## BACKGROUND

one background image aligned to the top right corner and a second image that starts at the bottom left corner and is repeated at the y-axis



## LINEAR-GRADIENT

allows you to change colors on an HTML element that has a color



## BOX-SHADOW

this allows you to add an effect that is also known as a drop shadow



## RGBA

gives you the ability to use RGB color codes instead of a hex code

[6, 113, 185]

## TEXT-SHADOW

this allows you to add an effect that is also known as a drop shadow but to text.

TEXT

## TRANSITION

the color of an element is transitioned over a period of 1 second



# NOT ALL BROWSERS ARE EQUAL

FILLED IN MEANS  
SUPPORTS FEATURE

	 Safari	 Firefox	 Opera	 Chrome	6	7	8	9
RGBA								
HSLA								
Box Sizing								
Background Size								
Multiple Background								
Border Image								
Border Radius								
Box Shadow								
Text Shadow								
Opacity								
CSS Animations								
CSS Columns								
CSS Gradients								
CSS Reflections								
CSS Transforms								
CSS Transforms 3D								
CSS Transitions								
CSS FontFace								
FlexBox								
Generated Content								
DataURI								
Pointer Events								
Display: table								
Overflow Scrolling								
Media Queries								



# CSS 3 Cheat Sheets

Selector

**h1**

Declaration

**(color: blue; font-size: 12px;)**

Declaration

↑  
Property

↑  
Value

↑  
Property

↑  
Value

**CSS cheat sheets** to keep at hand



# Backgrounds

## background

background-image

---

background-position

---

background-size

---

background-repeat

---

background-attachment

---

background-origin

---

background-clip

---

background-color

---

background-image

---

## background-image

url

---

none

## background-size

length

---

%

---

auto | cover | contain

---

## background-repeat

repeat | repeat-x | repeat-y |  
no-repeat

---

## background-attachment

scroll | fixed

---

## background-origin

border-box | padding-box |  
content-box

---

## 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-clip

length

---

%

---

border-box | padding-box | content-box | no-clip  
background-position  
background-size

---

## background-color

color

---

transparent

---

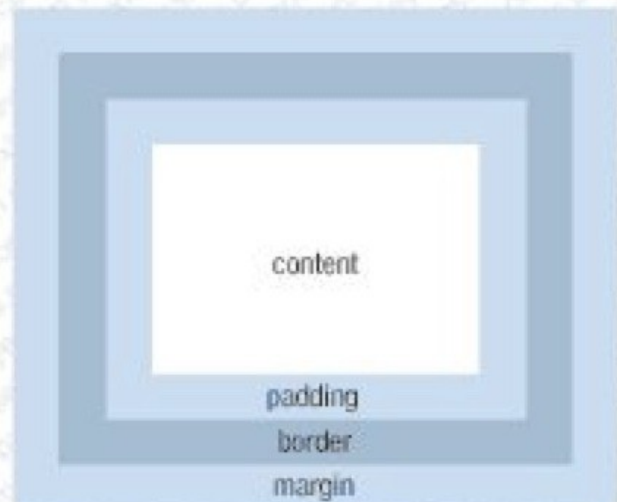
# CSS Cheat Sheet

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## Selectors

<code>div</code>	all DIV tags
<code>div, span</code>	all DIV tags and all SPAN tags
<code>div span</code>	all SPAN tags inside DIVs
<code>#content</code>	element with ID "content"
<code>.box</code>	all elements with CLASS "box"
<code>ul#box</code>	UL tag with ID "box"
<code>span.box</code>	all SPAN tags with CLASS "box"
<code>*</code>	all elements
<code>#box *</code>	all elements inside #box
<code>a:link, a:active,</code>	links in normal state, in clicked state,
<code>a:visited</code>	and in visited state
<code>a:hover</code>	link with mouse over it
<code>div &gt; span</code>	all SPANs one-level deep in a DIV

## Box Model



## Positioning

<code>position</code>	places elements on screen, e.g. absolute, fixed, relative
<code>float</code>	stacks elements horizontally in a particular direction, e.g. left
<code>top, left, right, bottom</code>	specifies the offsets used in absolute, fixed, and relative positions, e.g. top:10px;left:10px
<code>display</code>	sets how the element is placed in the doc flow, e.g. block, inline, none
<code>z-index</code>	sets the stacking order of elements, e.g. z-index of 1 is below z-index of 2
<code>overflow</code>	sets what happens to content outside of container, e.g. auto, hidden

## Text

<code>font-family</code>	font used, e.g. Helvetica, Arial
<code>font-size</code>	text size, e.g. 60px, 3em
<code>color</code>	text color, e.g. #000, #abcdef
<code>font-weight</code>	how bold the text is, e.g. bold
<code>font-style</code>	what style the text is, e.g. italic
<code>text-decoration</code>	sets a variety of effects on text, e.g. underline, overline, none
<code>text-align</code>	how text is aligned, e.g. center
<code>line-height</code>	spacing between lines, e.g. 2em
<code>letter-spacing</code>	spacing between letters, e.g. 5px
<code>text-indent</code>	indent of the first line, e.g. 2em
<code>text-transform</code>	applies formatting to text, e.g. upper-case, lowercase, capitalize
<code>vertical-align</code>	align relative to baseline, e.g. text-top

## Borders and Lists

<code>border</code>	sets border style for all borders, in the format: border: (solid, dashed, dotted, double) (width) (color), e.g. border: solid 1px #000
<code>border-top</code>	sets border style for a specific border (same property syntax used for padding and margin, e.g. margin-left)
<code>border-bottom</code>	
<code>border-left</code>	
<code>border-right</code>	
<code>list-style-type</code>	sets style of bullets, e.g. square
<code>list-style-position</code>	sets how text wraps when bulleted, e.g. outside, inside
<code>list-style-image</code>	sets an image for a bullet, e.g. list-style-image:url(bullet.png)

## Everything Else

<code>background</code>	sets background of an element, in the format: background: (color) (image) (repeat) (position), e.g. background: #000 url(bg.png) repeat-x top left
<code>cursor</code>	sets shape of cursor, e.g. pointer
<code>outline</code>	a border drawn around an element that doesn't affect the box model
<code>border-collapse</code>	sets how borders within tables behave, e.g. collapse
<code>clear</code>	sets on what side a new line starts in relation to nearby floated elements, e.g. left, right, both

Always write `<!doctype html>` in your files!



## Selectors

*	All elements
div	<div>
div *	All elements within <div>
div span	<span> within <div>
div, span	<div> and <span>
div > span	<span> with parent <div>
div + span	<span> preceded by <div>
.class	Elements of class "class"
div.class	<div> of class "class"
#itemid	Element with id "itemid"
div#itemid	<div> with id "itemid"
a[attr]	<a> with attribute "attr"
a[attr='x']	<a> when "attr" is "x"
a[class~='x']	<a> when class is a list containing 'x'
a[lang='en']	<a> when lang begins "en"

## Pseudo-Selectors and Pseudo-Classes

:first-child	First child element
:first-line	First line of element
:first-letter	First letter of element
:hover	Element with mouse over
:active	Active element
:focus	Element with focus
:link	Unvisited links
:visited	Visited links
:lang(var)	Element with language "var"
:before	Before element
:after	After element

## Sizes and Colours

0	0 requires no unit
<b>Relative Sizes</b>	
em	1em equal to font size of parent (same as 100%)
ex	Height of lower case "x"
%	Percentage

## Absolute Sizes

px	Pixels
cm	Centimeters
mm	Millimeters
in	Inches
pt	1pt = 1/72in
pc	1pc = 12pt

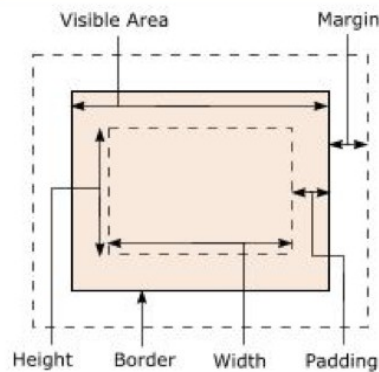
## Colours

#789abc	RGB Hex Notation
#acf	Equates to "#aaccff"
rgb(0,25,50)	Value of each of red, green, and blue. 0 to 255, may be swapped for percentages.

## Note

Shorthand properties are marked **x**  
Properties that inherit are marked **+**

## Box Model



## Positioning

display	clear
position	z-index
top	direction +
right	unicode-bidi
bottom	overflow
left	clip
float	visibility

## Dimensions

width	min-height
min-width	max-height
max-width	vertical-align
height	

## Color / Background

color +	background-repeat
background x	background-image
background-color	background-position
background-attachment	

## Text

text-indent +	word-spacing +
text-align +	text-transform +
text-decoration	white-space +
text-shadow	line-height +
letter-spacing +	

## Fonts

font + x	font-weight +
font-family +	font-stretch +
font-style +	font-size +
font-variant +	font-size-adjust +

## Boxes

margin x	border-color x
margin-top	border-top-color
margin-right	border-right-color
margin-bottom	border-bottom-color
margin-left	border-left-color
padding x	border-style x
padding-top	border-top-style
padding-right	border-right-style
padding-bottom	border-bottom-style
padding-left	border-left-style
border x	border-width x
border-top x	border-top-width
border-bottom x	border-right-width
border-right x	border-bottom-width
border-left x	border-left-width

## Tables

caption-side +	border-spacing +
table-layout	empty-cells +
border-collapse +	caption-header +

## Paging

size	page-break-inside +
marks	page +
page-break-before	orphans +
page-break-after	widows +

## Interface

cursor +	outline-style
outline x	outline-color
outline-width	

## Aural

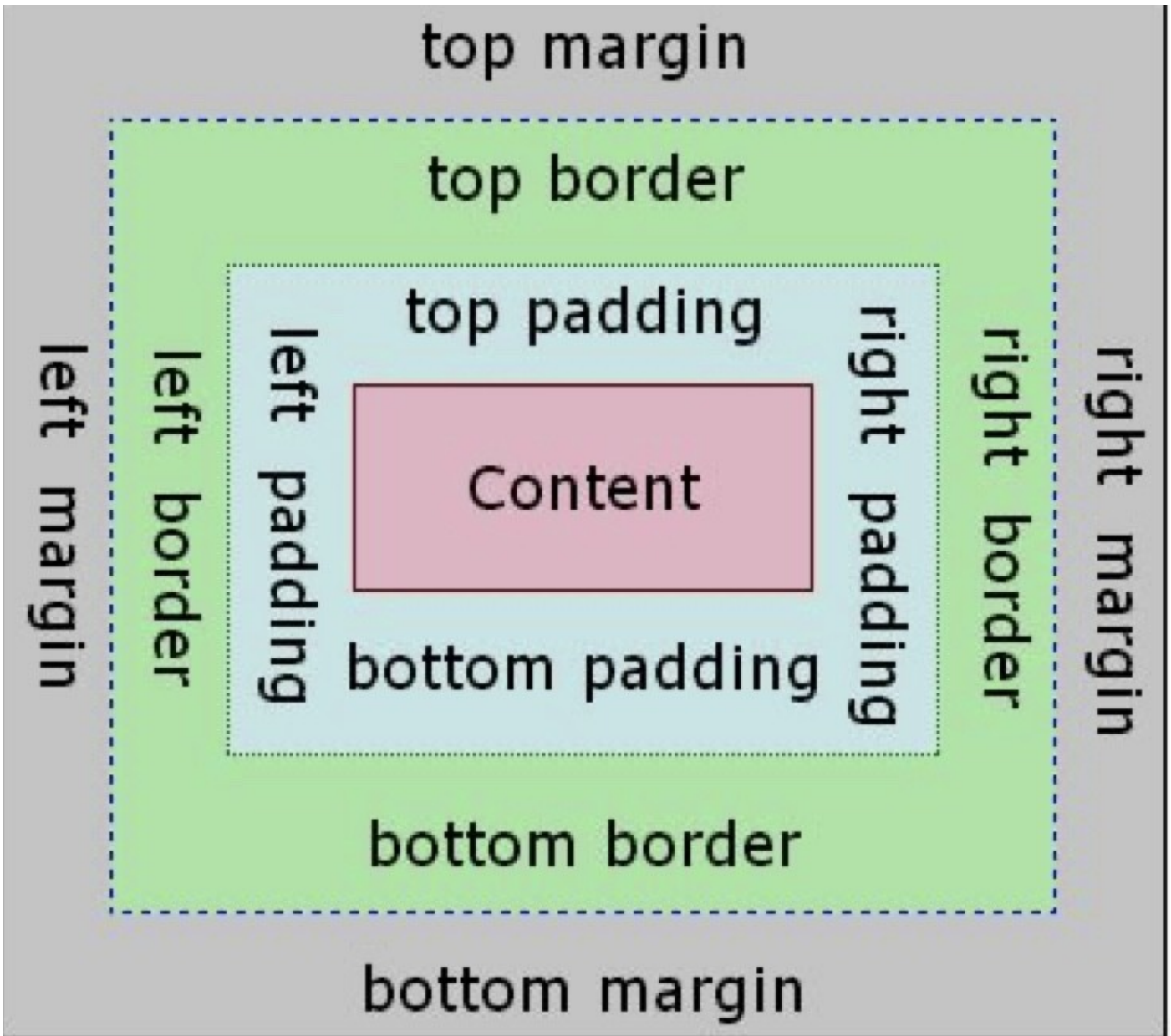
volume +	elevation
speak +	speech-rate
pause x	voice-family
pause-before	pitch
pause-after	pitch-range
cue x	stress
cue-before	richness
cue-after	speak-punctuation
play-during	speak-numeral
azimuth +	

## Miscellaneous

content	list-style-type +
quotes +	list-style-image +
counter-reset	list-style-position +
counter-increment	marker-offset
list-style + x	









# CSS Reference

An extensive CSS reference with all the important properties and info to learn CSS from the basics

Pseudo-class

Property

Function

Data Type

Concept

@rule

## Pseudo-class

::after

::before

::first-letter

::first-line

::placeholder

::selection

:active

:blank

:checked

:default

:dir()

:disabled

:empty

:enabled

:first

:first-child

:first-of-type

:focus

:fullscreen

:hover

:in-range

:indeterminate

:invalid

:lang()

:last-child

:last-of-type

:left

:link

:not()

:nth-child()

:nth-last-child()

:nth-last-of-type()

:nth-of-type()

:only-child

:only-of-type

:optional

:out-of-range

:read-only

:read-write

:required

:right

:root

:scope

:target

:valid

:visited

:content



## Property

animation

animation-delay

animation-direction

animation-duration

animation-fill-mode

animation-iteration-count

animation-name

animation-play-state

animation-timing-function

backface-visibility

background

background-attachment

background-blend-mode

background-clip

background-color

background-image

background-origin

background-position

background-repeat

background-size

border

border-bottom

border-bottom-color

border-bottom-left-radius

border-bottom-right-radius

border-bottom-style

border-bottom-width

border-collapse

border-color

border-image

border-image-outset

border-image-repeat

border-image-slice

border-image-source

border-image-width

border-left

border-left-color

border-left-style

border-left-width

border-radius

border-right

border-right-color

border-right-style

border-right-width

border-spacing

border-style

border-top

border-top-color

border-top-left-radius

border-top-right-radius

border-top-style

border-top-width

border-width

bottom

box-shadow

box-sizing

break-after

break-before

break-inside

caption-side

clear

clip

clip-path

color

column-count

column-fill

column-gap

column-rule

column-rule-color

column-rule-style

column-rule-width

column-span

column-width

columns

counter-increment

counter-reset

cursor

direction

display

empty-cells

filter

float

font

font-family

font-size

font-size-adjust

font-stretch



font-style	font-synthesis	font-variant
font-weight	hanging-punctuation	height
hyphens	isolation	left
letter-spacing	line-height	list-style
list-style-image	list-style-position	list-style-type
margin	margin-bottom	margin-left
margin-right	margin-top	mask
mask-border	mask-border-mode	mask-border-outset
mask-border-repeat	mask-border-slice	mask-border-source
mask-border-width	mask-clip	mask-composite
mask-image	mask-mode	mask-origin
mask-position	mask-repeat	mask-size
mask-type	max-height	max-width
min-height	min-width	mix-blend-mode
object-fit	object-position	opacity
orphans	outline	outline-color
outline-offset	outline-style	outline-width
overflow	overflow-x	overflow-y
padding	padding-bottom	padding-left
padding-right	padding-top	page-break-after
page-break-before	page-break-inside	perspective
perspective-origin	pointer-events	position
quotes	resize	right
shape-image-threshold	shape-margin	shape-outside
tab-size	table-layout	text-align
text-align-last	text-decoration	text-decoration-color
text-decoration-line	text-decoration-style	text-indent
text-justify	text-overflow	text-rendering
text-shadow	text-transform	top
transform	transform-origin	transform-style
transition	transition-delay	transition-duration

transition

transition-delay

transition-duration

transition-property

transition-timing-function

unicode-bidi

vertical-align

visibility

white-space

widows

width

will-change

word-break

word-spacing

word-wrap

z-index



## Function

attr()

calc()

circle()

ellipse()

hsl()

hsla()

inset()

linear-gradient()

matrix()

matrix3d()

polygon()

radial-gradient()

repeating-linear-gradient()

repeating-radial-gradient()

rgb()

rgba()

rotate()

rotate3d()

rotateX()

rotateY()

rotateZ()

scale()

scale3d()

scaleX()

scaleY()

scaleZ()

skew()

skewX()

skewY()

translate()

translate3d()

translateX()

translateY()

translateZ()



## Concept

Counters

Flexbox



## @rule

@charset

@document

@font-face

@import

@keyframes

@media

@namespace

@page

@supports





# Beginner's essential CSS CHEAT SHEET

## Backgrounds

### background

background-image

background-position

background-size

background-repeat

background-attachment

background-origin

background-clip

background-color

### background-image

url

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

### background-origin

border-box | padding-box | content-box

### background-clip

length

%

border-box | padding-box | content-box

| no-clip

### background-color

color

transparent

## Box Model

<b>float</b>	<b>padding-left</b>
left   right   none	length
	%
<b>height</b>	<b>padding-right</b>
auto	length
length	%
<b>max-height</b>	<b>padding-top</b>
none	length
length	%
<b>max-width</b>	<b>display</b>
none	none   inline   block   inlineblock
length	list-item   run-in
	compact   table   inline-table
	table-row-group   table-headergroup
	table-footer-group
<b>min-height</b>	table-row   table-column-group
none	table-column   table-cell
length	table-caption   ruby   ruby-base
	ruby-text   ruby-base-group
	ruby-text-group
<b>width</b>	
auto	<b>marquee-direction</b>
	forward   reverse
length	
	<b>marquee-loop</b>
<b>margin</b>	infinite
margin-top	integer
margin-right	
margin-bottom	<b>marquee-play-count</b>
margin-left	infinite
	integer
<b>margin-bottom</b>	
auto	<b>marquee-speed</b>
length	slow   normal   fast
<b>margin-left</b>	<b>marquee-style</b>
auto	scroll   slide   alternate
height	
	<b>overflow</b>
	visible   hidden   scroll
<b>margin-right</b>	auto   no-display   no-content
auto	overflow-x
height	overflow-y
<b>margin-top</b>	<b>overflow-style</b>
auto	auto   marquee-line   marqueeblock
length	
	<b>overflow-x</b>
	visible   hidden   scroll
	auto   no-display   no-content
<b>padding</b>	
padding-top	<b>rotation</b>
padding-right	angle
padding-bottom	
padding-left	<b>rotation-point</b>
	position (paired value off-set)
<b>padding-bottom</b>	
length	<b>visibility</b>
	visible   hidden   collapse
	<b>clear</b>
	left   right   both   none

## 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-left**

border-left-width

border-style

border-color

### **border-left-style**

border-style

### **border-left-color**

border-color

### **border-left-width**

thin | medium | thick | length

### **border-right**

border-right-width

border-style

border-color

### **border-right-style**

border-style

### **border-right-color**

border-color

### **border-right-width**

thin | medium | thick | length

### **border-top**

border-top-width

border-style

border-color

### **border-top-style**

border-style

### **border-top-color**

border-color

### **border-top-width**

thin | medium | thick | length

### **border-bottom**

border-bottom-width

border-style

border-color

### **border-bottom-color**

border-color

### **border-bottom-style**

border-style

### **border-break**

border-width

border-style

color

close

### **box-shadow**

inset || [ length, length,  
length, length || <color> ]

none

### **border-collapse**

collapse | separate

### **border-image**

image

[ number / % border-width

stretch | repeat | round ]

none

### **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