

**CSS stands for** Cascading Style Sheets. The documents written in HTML are formatted and presented using CSS. There are many features in HTML and CSS is the most popular addition to it. Rather than changing the web page itself, with CSS, only the styles need to be changed, which means fewer chances to the overall code. Further, HTML contained a lot of repeated code for each web page, which can be put in a common file with CSS and used across web pages. **CSS contains** – selector and declaration block. A declaration block consists of property-value pairs. Example,

#title

Here, title is the selector and the declaration block is the entire thing inside the curly braces.

**Saved as** - .css file

## CSS Cheat sheet

### 1. Font

Property	Values	Example
font-style	normal/italic/inherit/oblique	font-style: normal
font-variant	normal/inherit/small-caps	font-variant: small-caps
font-weight	normal/bold/bolder/lighter/100-900/inherit	font-weight:bold
font-size	?px/?%/small/medium/large	font-size: large font-size :5
font-family	verdana/calibri.. etc...	font-family: verdana

### 2. Text

Property	Values	Example
text-align	left/right/center/justify	text-align: justify;
letter spacing	normal/length/?%	letter spacing : 3%;
Text-outline	None/length/color	Text-outline: red
word-wrap	normal/length	word-wrap: normal;
direction	ltr/rtl/inherit	Direction: ltr;
text-wrap	normal/unrestricted/none	text-wrap: normal

text-indent	?%/?px	text-indent: 2%
word-spacing	normal/?%/?px	word-spacing: normal
text-transform	none/uppercase/lowercase/capitalize	text-transform: lowercase
text-emphasis	none/dot/open/filled/circle/triangle	text-emphasis: filled
text-justify	auto/distribute/inter-word	text-justify:distribute

### 3. User Interface

Property	Values	Example
appearance – apply platform specific styling	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]	appearance: password;
cursor	auto   crosshair   default   pointer   move   e-resize   neresize   nw-resize   n-resize   se-resize   sw-resize   swresize   s-resize   w-resize   text   wait   help	.help { cursor: help; }
nav-index - specifies the sequential navigation order of current element. Similar to tab index in html. Values can be auto or a positive number representing the navigation order. First value is 1.	auto   inherit number	nav-index: 1;
nav-up	auto   inherit <id> [current   root   <target-name> auto (browser decides where to navigate to)/ id (specific ID to be navigated to)/ target_name (target frame to navigate to)/inherit (value computed based on element's parent; root or current)	nav-up: auto;

nav-down	auto   inherit <id> [current   root   <target-name>	nav-down: #b2;
nav-left	auto   inherit <id> [current   root   <target-name>	nav-left: #b1;
nav-right	auto   inherit <id> [current   root   <target-name>	nav-right: #b2;
resize	none   both   horizontal   vertical   inherit	resize: horizontal;
icon	auto   inherit url	icon: url("like.png");

## 4. Backgrounds

Property	Values	Example
background-size	auto/cover/?px/?%	background-size: cover
background-image	url/none	background-image: none
background-repeat	no-repeat/repeat-x/repeat-y/repeat	background-repeat: repeat
background-attachment	fixed/scroll	background-attachment: fixed
background-color	color/transparent	background-color: white
background-position	can be any position from different combinations like top left, top right, top center. Same with bottom. can be mentioned in terms of position x-% and y-%	background-position: top-left;
background-origin	the starting point of the background	background-origin: 0;

background-clip - lets you control how much of the background image should extend beyond the element's content or padding

content-box/padding-box/border-box/no-clip/?%/?px

background-clip: no-clip

## 5. Borders

### Property

### Values

### Example

border-width

thin/thick/medium/?px

border-width: medium  
border-width: 20px

border-style

none/dashed/dotted/inset/double/solid

border-style: dotted

border-color

name of the color

border-color: black

*border-left:* border-left-color  
border-left-width

border-left-color: black  
border-left-width: 10px

*border-right:* border-right-color  
border-right-width

border-right-color: black  
border-right-width: 15px

*border-top:* border-top-width  
border-top-color

border-top-width: 10px  
border-top-color: blue

*border-bottom*: border-bottom-color  
border-bottom-width

border-bottom-color :  
black  
border-bottom-width :  
15px

border-decoration-break

maintain consistent design amongst  
fragments of broken element  
slice/clone

border-decoration-break: slice;

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

?px

border-top-left-radius :  
20px

border-image

?%/stretch/repeat/round/none

border-image : repeat  
border-image : 12px

## 6. Box Model

Property	Values	Example
float	left   right   none	float : right
height	auto length %	height : 10px
max-height	none length %	max-height : 10px
max-width	none length %	max-width : 120%
min-height	none length %	min-height : 50%
min-width	auto % length	min-width : 30px

### 6.1. margin

Property	Values	Example
margin-bottom	auto/length %	margin-bottom : 20px

margin-left	auto/height %	margin-left : auto
margin-right	auto/height %	margin-right : 30%
margin-top	auto/length %	margin-top : 40mm

## 6.2. padding

Property	Values	Example
padding-bottom	length %	padding-bottom : 20px
padding-top	length %	padding-top : 20px
padding-right	length %	padding-right : 20px
padding-left	length %	padding-left : 20px
display	none/inline/block/inline-block/list-item/run-in/compact/table/inline-table/table-row-group/table-headergroup/table-footer-group/table-row/table-column-group/table-column/table-cell/table-caption/ruby/ruby-base/ruby-text/ruby-base-group/ruby-text-group	display : inline
marquee-direction	forward/reverse	marquee-direction : forward
marquee-loop	infinite/integer	marquee-loop : 10
marquee-play-count	infinite/integer	marquee-play-count : 50
marquee-speed	slow/normal/fast	marquee-speed : slow

marquee -style	scroll/slide/alternate	marquee -style : scroll
overflow	visible/hidden/scroll/auto/no-display/no-content/overflow-x/overflow-y	overflow : visible
overflow- style	auto/marquee-line/marquee-block	overflow- style : auto
overflow- x	visible/hidden/scroll/auto/no-display/no-content	overflow- x : scroll
rotation	angle	rotation : 20deg
rotation-p oint	position (paired value off-set)	rotation-p oint : 50% 50%
visibility	visible/hidden/collapse	visibility: hidden
clear	left/right/both/none	clear: left

## 7. Template layout

Property	Values	Example
box-align	start/end/center/base	box-align : start
box-direction	normal/reverse	box-direction : normal
box-flex	normal	box-flex : normal
box-flex-group	integer	box-flex-group : 2
box-lines	single/multiple	box-lines : single
box-orient	horizontal/vertical/inline-axis/block-axis	box-orient : inline
box-pack	start/end/center/justify	box-pack : justify
box-sizing	content-box/padding-box/border-box/margin-box	box-sizing : margin-box

tab-side            top/bottom/left/right

tab-side : left

## 8. Table

Property	Possible values
border-collapse	collapse/separate
empty-cells	show/hide
border-spacing	?%/?px
table-layout	auto/fixed
caption-side	top/bottom/left/right

## 9. Columns

Property	Values	Example
column-count	auto/number	column-count : 10
column-fill	auto/balance/balance-all	column-fill : balance
column-gap	normal/?px	column-gap : 5px
column-rule-width	thin/medium/thick/?px	column-rule-width : medium column-rule-width : 2px
column-rule-style	border-style – dotted/solid/hidden/double/dashed/groove/hidden/inset/outset/inherit	column-rule-style : dotted
column-rule-color	color	column-rule-color : black
column-width	auto/?px	column-width : 10px
column-span	1/all	column-span : all

## 10. Colors



Property	Values	Example
color	inherit/color	color : green
opacity	inherit/number level	opacity : 4

## 11. Grid positioning

Property	Values	Example
grid-columns	none/inherit/?px/?%/x%-y%	grid-columns : 10px
grid-rows	none/inherit/?px/?%/x%-y%	grid-rows : 40%

## 12. List and Markers

Property	Values
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
	Example:
	{ list-style-type : upper-roman}
list-style-position	?%/?px
	Example:
	list-style-position : 20px
list-style-image	none/url
	Example:
	list-style-image : url('hackrhome.gif');
marker-offset	auto/?px
	Example:

marker-offset : auto

## 13. Animations

Property	Values	Example
animation-name	none/ID	animation-name : myfirstanim
animation-duration	time	animation-duration : 5s
animation-timing-function	ease/linear/ease-in/easeout/ease-in-out/cubic-Bezier(number, number, number, number)	animation-timing-function : linear;
animation-delay	time	animation-delay : 5ms
animation-iteration-count	inherit/number	animation-iteration-count : 5
animation-direction	normal/alternate	animation-direction : alternate
animation-play-state	running/paused	animation-play-state : running
animation-fill-mode	None/backwards/ forwards/both/initial/inherit	animation-fill-mode : both

## 14. Outline

Property	Values	Example
outline-color	Color name	outline-color : green
outline-style	none/dotted/dashed/solid/double/groove/ridge/inset/outset	outline-style : solid
outline-width	thin/medium/thick/?px	outline-width : medium outline-width : 20px
outline-offset	inherit/?px	outline-offset : 15px

## 15. Hyperlink

Property	Values	Example
target-name	current/root/parent/new/modal/"string"	target-name : parent
target-new	tab/window/none	target-new : window
target-position	front/back/above/behind	target-position : front

## 16. Paged Media

Property	Values	Example
fit	fill/hidden/meet/slice	fit : fill
fit-position	top/center/bottom or left/center/right ?%/?px	fit-position : top 35%
orphans	integer	orphans : 4
image-orientation	auto/angle (deg/rad/turn/grad)	image-orientation : 0grad
page	auto/id	page : auto
page-break-after	auto/always/avoid/left/right	page-break-after : always
page-break-before	auto/always/avoid/left/right	page-break-before: left
page-break-inside	auto/avoid	page-break-inside : avoid
size	auto/landscape/portrait/?px	Size : landscape
windows	integer	Windows : 4

## 17. Positioning

Property	Values	Example
bottom/right/top/left	auto/%/length	bottom: 20% top : auto left : 40px right : 25px
z-index	auto/number	z-index : 2
clip	shape/auto	clip : auto

position	fixed/static/relative/absolute	position : static
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## 18. Transitions

Property	Values	Example
transitions-delay	time (ms/s)	transitions-delay : 20ms
transitions-duration	time (ms/s)	transitions-duration : 2s
transitions-property	none/all	transitions-property: none
transition-timing-function	ease/linear/ease-in/ease-out/ease-in-out/cubicBezier(number, number, number, number)	transition-timing-function: ease-in-out;

## 19. 3D / 2D Transform

Property	Values	Example
backface-visibility	visible/hidden	backface-visibility : hidden
perspective	length   none   initial   inherit	perspective : 100px
perspective-origin	[ [?%/?px/left/center/right ] [?%/?px/top/center/bottom ] ] ?px ]/[ [ [ left/center/right ] or [ top/center/bottom ] ] ?px ]	perspective-origin : 10px 30px perspective-origin : 10% 30% perspective-origin : left center;
transform	none/matrix/matrix3d/translate3d/translateX/translateY/translateZ/scale/scale3d/scaleX/scaleY/scaleZ/rotate/rotate3d/rotateX/rotateY/rotateZ/skewX/skewY/skew/perspective	transform: skewy(40deg); transform: scalex(10); transform:

		rotate(50deg) ;
transform-origin	[ [ [ ?%/?px/left/center/right ] [ ?%/?px/top/center/bottom ]? ] <length> ]/[ [ [ left/center/right ] or [ top/center/bottom ] ] ?px ]	transform-origin : 20% 50%; transform-origin : center; transform-origin : 20px 50px;
transform-style	flat/preserve-3d	transform-style : preserve-3d

## 21. Speech

Property	Values	Example
cue-before – play a sound file before an element	url [ silent   x-soft   soft   medium   loud   x-loud   none   inherit]	.voice;
cue-after - play a sound file after an element	url [ silent   x-soft   soft   medium   loud   x-loud   none   inherit]	.voice;
pause	Time	pause: 25ms
pause-before	<time>   none   x-weak   weak   medium   strong   x-strong	pause-before : 25ms
pause-after	<time>   none   x-weak   weak   medium   strong   x-strong	pause-after : 25ms
phonemes – give a phonetic pronunciation to elements	<string>	#computer
voice-stress	normal   strong   moderate   none   reduced	voice-stress : moderate;

voice-pitch	<frequency> && absolute   [[x-low   low   medium   high   x-high]    [<frequency>   <semitones>   <percentage>]]	voice-pitch: high; voice-pitch: 350hz; voice-pitch: 45%
voice-duration	auto   <time>	voice-duration: auto; voice-duration: 60s;
voice-volume	silent   [[x-soft   soft   medium   loud   x-loud]    <decibel>]	voice-volume: 25db; voice-volume: silent; voice-volume: soft;
voice-family	[[<name>   <generic-voice>],]* [<name>   <generic-voice>]   preserve <generic-voice> = [<age>? <gender> <integer>?]	voice-family : “child”, “female”
voice-rate	[normal   x-slow   slow   medium   fast   x-fast]    <percentage>	voice-rate: slow; voice-rate: 30%;
speak	none   normal   spell-out   digits   literal-punctuation   no-punctuation   inherit-number	speak : none;
caption-side – position for table caption	top   bottom   left   right   inherit	caption-side: left;
rest-before	<time>   none   x-weak   weak   medium   strong   x-strong	rest-before: medium; rest-before: 20ms;
rest-after	<time>   none   x-weak   weak   medium   strong   x-strong	rest-after: medium; rest-after: 20ms;

## 22. Pseudo-class

Property	Meaning
:active	the active element
:focus	Element in focus
:link	an unvisited link
:enabled	an element when enabled
:disabled	an element when disabled

:hover	element when you mouse over
:checked	Checked element
:selection	an element currently selected or highlighted by the user
:lang	allows the author to specify a language to use in a specified element
:nth-child(n)	an element that is the nth sibling
:nth-last-child(n)	an element that is the nth sibling counting from the last sibling
:first-child	first sibling
:last-child	last sibling
:only-child	only child element
:nth-of-type(n)	an element that is the n-th sibling of its type
:nth-last-of-type(n)	n-th sibling of its type counting from the last sibling
:first-of-type	first sibling of its type
:last-of-type	an element that is the last sibling of its type
:only-of-type	only child of its type
:empty	Element with no children
:root	Root element of the document
:target	Target specified by a URL
:not(x)	element not represented by the argument 'x'

## 23. Pseudo-element

Property	Meaning	Example
::first-letter	Adds special style to the first letter of a text	p::first-letter { font-size: 150%; color: #FFF00; }
::first-line	Adds special style to the first line of a text	p::first-line { font-size: 150%; color: black; }

::before     Inserts some content before an element

```
p::before { content: "Welcome to hackr: "; }
```

::after       Inserts some content after an element

```
p::after { content: "Thank you for watching"; }
```

## **Absolute Measurements**

<b>Symbol</b>	<b>Representation</b>
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%	percentage
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ms	millisecond
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s	second
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in	inches
----	--------

mm	millimetre
----	------------

cm	centimetre
----	------------

pt	point (1/72 inch)
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pc	pica (12 points)
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## **24. Angles/Time/Frequency**

<b>Unit</b>	<b>Representation</b>
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deg	degree
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grad	gradient
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rad	radian
-----	--------

turn	turns
------	-------

ms	millisecond
----	-------------

s	second
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Hz	hertz
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khz	kilohertz
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## **25. Relative measurement**



## Unit Representation

px	pixel of the device
gd	grid defined by layout-grid
em	font size of current element
rem	font size of root element
ex	x-height of the element's font
vh	viewport height
vm	viewport height or width (lower value)
vw	viewport width

## 26. Selector types

Type	Meaning	Example
class	multiple elements of various types	.class
id	single element	#id
universal	applicable to all elements	*
group	apply style to multiple elements	p h1 h2
type	element of the specified type	p
tree descendant	element that is below another (any level)	#elementname h3
child	element one below the parent element	#elementname > h3
<i>sibling</i> adjacent general	adjacent share the same parent and in the same immediate sequence general share the same parent but can be in any sequence	h2 + p h2 ~ p

## 27. Generated content

Property	Value	Example
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bookmark-label	Content/attr/label string	bookmark-label : "This is bookmark"
bookmark-level	None/integer	bookmark-level : 2;
bookmark-target	Self/url/attr	bookmark-target : url(http://hackr.io);
counter-reset	None/number	counter-reset : 5
crop	Auto/shape	Crop : auto
display	none/inline/block/inline-block	Display : block;
content	normal   none   inhibit url	Content : normal
float-offset	length	float-offset : 20px 20px
hyphenate-after	auto/integer	hyphenate-after : 15
hyphens	none/auto/manual	hyphens : manual
hyphenate-lines	no-limit/integer	hyphenate-lines : no-limit
hyphenate-resource	none/url	hyphenate-resource : url(http://hackr.io)
hyphenate-before	auto/integer	hyphenate-before : 10
hyphenate-character	auto/string	hyphenate-character : "\1234"
counter-increment	none/number	counter-increment : 10
marks	crop   cross/none	marks : crop
move-to	normal/here/id	move-to : normal
image-resolution	auto/normal/dpi	image-resolution : auto
page-policy	start/first/last	page-policy : last
quotes	none/string	quotes : " " " "
string-set	[id string] [id string]	string-set : header content();
text-replace	none [string string]	text-replace : "foo" "bar"

## 28. Line box

Property	Value	Example
alignment-adjust	auto   baseline   before-edge   text-before-edge   middle   central   after-edge   textafter-edge   ideographic   alphabetic   hanging   mathematical length   %	alignment-adjust : middle
alignment-baseline	baseline   ise-script   beforeedge   text-before-edge   afteredge   text-after-edge   central   middle   ideographic   alphabetic   hanging   mathematical	alignment-baseline : hanging
drop-initial-after-alignment	central   middle   after-edge   text-after-edge   ideographic   alphabetic   mathematical   %	drop-initial-after-align : 30%
drop-initial-before-alignment	caps-height   <alignment-baseline>	drop-initial-before-align : central
drop-initial-before-adjust	before-edge   text-before-edge   central   middle   hanging   mathematical   length   %	drop-initial-before-adjust : 10px drop-initial-before-adjust : 10% drop-initial-before-adjust : middle
drop-initial-value	initial integer	drop-initial-value : 20
drop-initial-size	auto integer % line	drop-initial-size : 25%
baseline-shift	sub   super   length %	baseline-shift : super
dominant-baseline	baseline/hanging/middle	dominant-baseline : middle x=25 y = 50
line-stacking-shift	consider-shifts   disregard-shifts	line-stacking-shift : disregard-shifts
line-stacking-strategy	inline-line-height   block-line-height   max-height   grid-height	line-stacking-strategy: max-height

inline-box-align	Initial   last  integer	inline-box-align : 2 inline-box-align : initial
line-height	Normal/number/ length/ %	line-height : 30%
text-height	auto   font-size   text-size   max-size	text-height : auto
vertical-align	Baseline   sub   super   top   text-top   middle   bottom   text-bottom length   %	vertical-align : middle