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

Property	Values	Example
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-point	position (paired value off-set)	rotation-point : 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/absolut e	position : static

18. Transitions

Property	Values	Example
transitions-del ay	time (ms/s)	transitions-delay : 20ms
transitions-dur ation	time (ms/s)	transitions-duration : 2s
transitions-pro perty	none/all	transitions-property: none
transition-timin g-function	ease/linear/ease-in/ease-out/ease-in-out/cubicBezi er(number, number, number, number)	transition-timing-functi on: ease-in-out;

19. 3D / 2D Transform

Property	Values	Example
backface-v isibility	visible/hidden	backface-visi bility : hidden
perspectiv e	length	none	initial	inherit	perspective : 100px
perspectiv e-origin	[[?%/?px/left/center/right] [?%/?px/top/center/bottom]] ?px]/[[left/center/right] or [top/center/bottom]] ?px]	perspective-o rigin : 10px 30px perspective-o rigin : 10% 30% perspective-o rigin : left center;
transform	none/matrix/matrix3d/translate3d/tranlateX/translateY/translateZ/ scale/ scale3d/scaleX/scaleY/scaleZ/rotate/rotate3d/rotateX/rotateY/rot ateZ/ 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-letter { 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

Symbol	Representation
%	percentage
ms	millisecond
s	second
in	inches
mm	millimetre
cm	centimetre
pt	point (1/72 inch)
pc	pica (12 points)

24. Angles/Time/Frequency

Unit	Representation
deg	degree
grad	gradient
rad	radian
turn	turns
ms	millisecond
s	second
Hz	hertz
khz	kilohertz

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)	# elementnam e h3
child	element one below the parent element	# elementnam e > h3
sibling 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

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-align	central | middle | after-edge | text-after-edge | ideographic | alphabetic | mathematical | %	drop-initial-after-align : 30%
drop-initial-before-align	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