



## Module 2: CSS 3 – Cheat Sheet

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2.0. Introduction	2.0. Introduction to CSS 3	
What is CSS?	<ul> <li>Property-based language.</li> <li>Creates styles in the web page.</li> <li>Adds beauty to the web page.</li> </ul>	
Features:	<ul> <li>Not a case sensitive language.</li> <li>Defines key-value pairs.   property: value;</li> <li>Access HTML elements and add styles.</li> </ul>	
History:	<ul> <li>Developed by Håkon Wium Lie and Bert Bos in 1996.</li> <li>CSS 1: Dec 1996</li> <li>CSS 2: May 1998</li> <li>CSS 2.1: Jun 2011</li> <li>CSS 3: 2017 - now</li> </ul>	

# **CSS 3 Properties:**

2.1. font-family	
Example:	font-family: 'Arial', 'Segoe UI';
Interpretation:	Specifies font name (style of characters).
	• If multiple font names are specified, it applies first-possible font, which is supported
	by the browser
Default value:	Times New Roman

2.2. font-size	
Example:	font-size: px   %   em   vw;
Interpretation:	<ul> <li>Specifies font size based on any one of the units.</li> </ul>
Default value:	16px

2.3. font-weight	
Example:	font-weight: normal   bold   100 divisible number;
Interpretation:	Specifies thickness (lighter / thicker) of the text.
Default value:	normal

2.4. font-style	
Example:	font-style: normal   italic
Interpretation:	Displays the text in italic.
Default value:	normal

2.5. font-variant	
Example:	font-variant: normal   small-caps;
Interpretation:	<ul> <li>Small capital letters for all letters, except for first letter of the word.</li> </ul>
Default value:	normal

CSS 3 – Cheat Sheet 1 of 12





2.6. font	
Example:	font: font-style font-variant font-weight font-size font-family
Interpretation:	Specifies all font properties in one.
Default value:	normal normal normal 16px 'Times New Roman'

2.7. color	
Example:	color: #000000
Interpretation:	Specifies text color.
Default value:	None

2.8. text-align	
Example:	text-align: left   center   right   justify;
Interpretation:	<ul> <li>Specifies text alignment in the browser.</li> </ul>
Default value:	left

2.9. text-decoration	
Example:	text-decoration: none   underline   overline   line-through;
Interpretation:	Underlines, overlines, strikes-out the text.
Default value:	ltr

2.10. text-transform	
Example:	text-transform: none   uppercase   lowercase   capitalize;
Interpretation:	Converts the text into desired case.
Default value:	none

2.11. letter-spacing	
Example:	letter-spacing: px;
Interpretation:	Represents gap between letters (characters) in the paragraph.
Default value:	normal

2.12. word-spacing	
Example:	word-spacing: px;
Interpretation:	Represents gap between words in the paragraph.
Default value:	normal

2.13. line-height	
Example:	line-height: n;
Interpretation:	Represents height of line of text in the paragraph.
Default value:	normal

2.14. text-shadow	
Example:	text-shadow: horizontal vertical blur color;
Interpretation:	Represents shadow style of text.
Default value:	none

CSS 3 – Cheat Sheet 2 of 12





2.15. background-color		
Example:	background-color: #ffffff;	
Interpretation:	<ul><li>Represents background color of the element.</li><li>Possible color formats:</li></ul>	
	<ul><li>rgb(red, green, blue)</li><li>rgba(red, green, blue, alpha)</li><li>#rrggbb</li></ul>	
Default value:	transparent	

2.16. margin		
Example:	margin: px;	
Interpretation:	<ul> <li>Specifies gap between elements.</li> </ul>	
Default value:	0	

2.17. padding	
Example:	padding: px;
Interpretation:	<ul> <li>Specifies gap between border and content.</li> </ul>
	<ul> <li>In order words, it represents inner space of the element.</li> </ul>
Default value:	0

2.18. border	
Example:	border: width style color;
Interpretation:	Represents border surrounding element.
Default value:	medium none #000000

2.19. width	
Example:	width: px;
Interpretation:	Represents width of "content" of the element.
Default value:	auto

2.20. height	
Example:	height: px;
Interpretation:	Represents height of "content" of the element.
Default value:	auto

2.21. float	
Example:	float: left   right;
Interpretation:	<ul> <li>In case of float: left, it displays the block level elements side-by side from left-to-right direction.</li> <li>In case of float: right, it displays the block level elements side-by side from right-to-left direction.</li> </ul>
Default value:	none

2.22. clear	
Example:	clear: left   right   both;
Interpretation:	Breaks the sequence of "float" and pushes the element to the next line.

CSS 3 – Cheat Sheet 3 of 12





**Default value:** none

2.23. border-radius	
Example:	border-radius: px;
Interpretation:	Applies rounded corners for element, for all four corners.
Default value:	0

2.24. box-shadow	v
Example:	box-shadow: horizontal vertical blur spread color;
Interpretation:	Applies shadow for the entire element (after border).
Default value:	none

2.25. transition	
Example:	transition: property seconds;
Interpretation:	<ul> <li>Specifies the browser to change the property value gradually, based on given time (seconds).</li> </ul>
Default value:	none

2.26. transform	
Example:	transform: $rotate(deg)$ $scale(n)$ $skew(deg)$ $translate(x, y);$
Interpretation:	<ul> <li>Shows the element from a different visual dimension.</li> </ul>
	<ul> <li>It rotates / skews / moves visual position of the element.</li> </ul>
Default value:	none

2.27. list-style-type	
Example:	list-style-type: decimal   upper-alpha   lower-alpha   upper-roman   lower-roman   disc   square   circle   none;
Interpretation:	<ul> <li>Specifies numbering type for <ol> / bullet type for <ul> tag.</ul></ol></li> </ul>
Default value:	disc   decimal

2.28. list-style-image	
Example:	list-style-image: url("filename.png");
Interpretation:	<ul> <li>Specifies custom image as bullet for <ul> <li>tag.</li> </ul></li></ul>
Default value:	none

2.29. vertical-align	
Example:	vertical-align: baseline   length   top   bottom   middle;
Interpretation:	Specifies vertical alignment of text of the element.
Default value:	baseline

2.30. animation	
Example:	animation: animationname;
Interpretation:	<ul> <li>Applies keyframe animation to the element.</li> <li>Keyframe animations are time-based animations (group of transitions), created using @keyframes rule.</li> </ul>
Default value:	none

CSS 3 – Cheat Sheet 4 of 12





2.31. overflow	
Example:	overflow: visible   hidden   scroll   auto;
Interpretation:	<ul> <li>visible: The extra content which doesn't fit within the element size will be visible.</li> <li>hidden: The extra content which doesn't fit within the element size will be hidden.</li> <li>scroll: The extra content which doesn't fit within the element size will be shown using scroll bar. The scroll bar is visible even there is no extra content.</li> <li>auto: Automatically scrollbars will be displayed only when there is extra content which doesn't fit within the element size.</li> </ul>
Default value:	visible

2.32. word-wrap	
Example:	word-wrap: normal   break-word;
Interpretation:	<ul> <li><u>normal</u>: The longer words will be displayed in the same line.</li> <li><u>break-word</u>: The longer words will be wrapped (split) into the next line automatically.</li> </ul>
Default value:	normal

2.33. position	
Example:	position: static   relative   absolute   fixed   sticky; left: px; top: px;
Interpretation:	<ul> <li><u>static</u>: The element will appear in its original position.</li> <li><u>relative</u>: The element will appear based on "top" and "left" co-ordinates (x, y respectively), from its original position.</li> <li><u>absolute</u>: The element will appear based on "top" and "left" co-ordinates (x, y respectively), from the page top-left corner.</li> <li><u>fixed</u>: The element will appear based on "top" and "left" co-ordinates (x, y respectively), from the page top-left corner, always at exact-place.</li> <li><u>sticky</u>: The element will appear based on "top" and "left" co-ordinates (x, y respectively), from the page top-left corner, when the page is scrolled-down.</li> </ul>
Default value:	static

2.34. min-width	
Example:	min-width: number;
Interpretation:	<ul> <li>Specifies minimum width of the element, when the browser is resized.</li> </ul>
Default value:	0

2.35. max-width	
Example:	max-width: number;
Interpretation:	<ul> <li>Specifies maximum width of the element, when the browser is resized.</li> </ul>
Default value:	none

2.36. min-height	
Example:	min-height: number;
Interpretation:	<ul> <li>Specifies minimum height of the element, when the browser is resized.</li> </ul>
Default value:	0

CSS 3 – Cheat Sheet 5 of 12





2.37. max-height		
Example:	max-height: number;	
Interpretation:	Specifies maximum height of the element, when the browser is resized.	
Default value:	none	

2.38. background-image	
Example:	background-image: url('filename.jpg');
Interpretation:	Specifies background image of the element.
Default value:	none

2.39. background-repeat		
Example:	background-repeat: repeat   no-repeat   repeat-x   repeat-y;	
Interpretation:	• repeat: The background image will be repeated both horizontally and vertically.	
	<ul> <li>no-repeat: The background image will not be repeated.</li> </ul>	
<ul> <li>repeat-x: The background image will be repeated only horizontally.</li> </ul>		
	<ul> <li>repeat-y: The background image will be repeated only vertically.</li> </ul>	
Default value:	repeat	

2.40. background-position		
Example:	background-position: left top   center top   right top   left center   center center   right center   left bottom   center bottom   right bottom   xpos ypos;	
Interpretation:	<ul> <li>Specifies where the background image should be appeared, in case of background- repeat: no-repeat.</li> </ul>	
Default value:	0% 0%	

2.41. background-size	
Example:	background-size: auto   width height   cover;
Interpretation:	<ul> <li><u>auto</u>: The background image will be displayed in its original size.</li> <li><u>width height</u>: The background image will be based on the specified width and height.</li> <li>cover: The background image will be displayed based width and height of the element; background image covers the entire element.</li> </ul>
Default value:	auto

2.42. background-attachment	
Example:	background-attachment: scroll   fixed;
Interpretation:	<u>scroll</u> : The background image will be scrolled along with the web page.
	• <u>fixed</u> : The background image will not be scrolled along with the web page.
Default value:	scroll

2.43. display	
Example:	display: block   inline   none;
Interpretation:	<ul> <li><u>block</u>: The element appears as block level element (element showed in next line; width is 100%; width, height, float properties are applicable).</li> <li><u>inline</u>: The element appears as inline element (element showed in the same line; width is as per the content; width, height, float properties are not applicable).</li> <li><u>none</u>: The element is hidden.</li> </ul>
Default value:	block   inline

CSS 3 – Cheat Sheet 6 of 12





2.44. visibility

Example: visibility: visible | hidden;

Interpretation: • visible: The element is visible normally.
• hidden: The element is hidden; but its space remains empty.

Default value: visible

#### CSS 3 Selectors:

2.47. CSS 3 Selectors - Class-Class Child Selector

Example: .class1 .class2

Interpretation: • It selects all elements that have a class name called "class2", which is the child of the element that has class "class1".

Result elements: <tag class="class1"> < childtag class="class2"> </childtag> < childtag class="class2"> </childtag> < childtag class="class2"> </childtag> < childtag class="class2"> </childtag> < childtag> < childtag>

CSS 3 – Cheat Sheet 7 of 12





2.50. CSS 3 Selectors - Tag Selector

**Example:** tag1

**Interpretation:** • It selects all instances of the specified tag.

Result elements: <tag1> </tag1>

<tag1> </tag1> </tag1> </tag1>

2.51. CSS 3 Selectors - Tag - Class Compound Selector

**Example:** tag1.class1

Interpretation: • It selects all instances of the specified tag that have class="class1".

Result elements: <tag1 class="class1"> </tag1>

<tag1 class="class1"> </tag1> <tag1 class="class1"> </tag1>

2.52. CSS 3 Selectors - Tag - ID Compound Selector

Example: tag1#id1

Interpretation: • It selects the instance of the specified tag that has id="id1".

Result elements: <tag1 id="id1"> </tag1>

2.53. CSS 3 Selectors - Tag - Class Child Selector

**Example:** tag1.class1

Interpretation:
It selects all the elements that have class="class1", which are children of <tag1>.

Result elements: <tag1>

<childtag class="class1"> </childtag> <childtag class="class1"> </childtag> <childtag class="class1"> </childtag>

</tag1>

2.54. CSS 3 Selectors - Tag - Tag Child Selector

Example: tag1 tag2

**Interpretation:** • It selects all instances of <tag2> elements, which are children of <tag1>.

Result elements: <tag1>

<tag2> </tag2> <tag2> </tag2> <tag2> </tag2>

<other>

<tag2> </tag2> </tag2>

</other>

/tag1>

2.55. CSS 3 Selectors - Tag - Tag Direct Child Selector

Example: tag1>tag2

Interpretation:

• It selects all instances of <tag2> elements, which are direct children (but not

grandchildren) of <tag1>.

Result elements: <tag1>

<tag2> </tag2>

<tag2> </tag2>

</tag1>

CSS 3 – Cheat Sheet 8 of 12





2.56. CSS 3 Selectors - Grouping Selector

**Example:** tag1,tag2

**Interpretation:** • It selects both tag1 and tag2.

Result elements: <tag1> </tag1>

<tag1> </tag1> </tag2> </tag2> </tag2> </tag2>

2.57. CSS 3 Selectors - Next Sibling Selector

**Example:** tag1+tag2

**Interpretation:** • It selects the first instance of <tag2>, which is placed immediately after <tag1>.

Result elements: <tag1> </tag1>

<tag2> </tag2> </tag2> </tag2> </tag2> </tag2>

2.58. CSS 3 Selectors - Sibling Selector

**Example:** tag1~tag2

Interpretation:

It all instances of <tag2>, that are preceded by <tag1>.

**Result elements:** <tag1> </tag1>

<tag2> </tag2> </tag2> </tag2>

2.59. CSS 3 Selectors - Attribute Selector

**Example:** [attribute1]

**Interpretation:** • It all tags that have the attribute "attribute1".

Result elements: <tag1 attribute1="value"> </tag1>

<tag2 attribute1="value"> </tag2>

2.60. CSS 3 Selectors - Tag with Attribute Selector

**Example:** tag1[attribute1]

**Interpretation:** • It all instances of <tag1>, that have the attribute "attribute1".

Result elements: <tag1 attribute1="value"> </tag1>

<tag2 attribute1="value"> </tag2>

2.61. CSS 3 Selectors - Attribute with value Selector

**Example:** tag1[attribute1=value1]

**Interpretation:** • It all instances of <tag1>, that have the attribute "attribute1=value1".

Result elements: <tag1 attribute1="value1"> </tag1>

<tag1 attribute1="value2"> </tag1>

2.62. CSS 3 Selectors - Attribute Starts with Selector

**Example:** tag1[attribute1^=value1]

**Interpretation:** • It all instances of <tag1>, that have the attribute "attribute1", whose attribute value

begins with specified "value1".

Result elements: <tag1 attribute1="value1abc"> </tag1>

<tag1 attribute1="value2xyz"> </tag1>

CSS 3 – Cheat Sheet 9 of 12





2.63. CSS 3 Selectors - Attribute Ends with Selector

**Example:** tag1[attribute1\$=value1]

**Interpretation:** • It all instances of <tag1>, that have the attribute "attribute1", whose attribute value

ends with specified "value1".

Result elements: <tag1 attribute1="abcvalue1"> </tag1>

<tag1 attribute1="xyzvalue2"> </tag1>

2.64. CSS 3 Selectors - Attribute Contains Selector

**Example:** tag1[attribute1\*=value1]

**Interpretation:** • It all instances of <tag1>, that have the attribute "attribute1", whose attribute value

contains specified "value1".

Result elements: <tag1 attribute1="abcvalue1pqr"> </tag1>

<tag1 attribute1="xyzvalue2"> </tag1>

2.65. CSS 3 Selectors - Global Selector

Example: \*

Interpretation: • It all tags within the current web page, including <a href="https://example.com/html">https://example.com/html</a>, <body> etc.

Result elements: <html>

<head>
</head>
<body>
<div> </div>

</body>

2.66. CSS 3 Pseudo Classes - Active

**Example:** :active

**Interpretation:** • It selects the elements when the user clicks it and hold the mouse button.

Result elements: <a href="#"> Click </a> - User click and hold it

2.67. CSS 3 Pseudo Classes - focus

**Example:** :focus

**Interpretation:** • It selects the elements when the cursor focused inside it.

**Result elements:** <input type="text"> - Cursor is inside the textbox.

2.68. CSS 3 Pseudo Classes - hover

**Example:** :hover

**Interpretation:** • It selects the elements when the user places mouse pointer on it.

**Result elements:** <input type="button"> - Mouse pointer hovered on the button.

2.69. CSS 3 Pseudo Classes - visited

**Example:** :visited

**Interpretation:** • It selects the hyperlinks, after visiting it at least once.

**Result elements:** <a href="#"></a> - User visited the hyperlink.

CSS 3 – Cheat Sheet 10 of 12





#### 2.70. CSS 3 Pseudo Classes - checked

**Example:** :checked

Interpretation:

• It selects the checkboxes and radio buttons that are currently checked.

Result elements: <input type="checkbox" checked="checked"> - User checked the checkbox.

<input type="radio" checked="checked"> - User checked the radio button.

#### 2.71. CSS 3 Pseudo Classes - disabled

**Example:** :disabled

**Interpretation:** • It selects the form elements that are currently disabled.

Result elements: <input type="text" disabled="disabled">

#### 2.72. CSS 3 Pseudo Classes - link

Example: :link

Interpretation:

• It selects hyperlinks that are unvisited by the user.

Result elements: <a href="#"></a> - User has not visited the hyperlink.

#### 2.73. CSS 3 Pseudo Classes - read-only

**Example:** :read-only

**Interpretation:** • It selects the form elements that are readonly.

Result elements: <input type="text" readonly="readonly">

#### 2.74. CSS 3 Pseudo Classes - valid

Example: :valid

• It selects the form elements, which value is valid.

Result elements: <input type="text" required="required" value="Hello"> - The value is valid.

#### 2.75. CSS 3 Pseudo Classes - invalid

Example: :invalid

• It selects the form elements, which value is invalid.

Result elements: <input type="text" required="required" value=""> - The value is invalid.

#### 2.78. CSS 3 Pseudo Classes - not

**Example:** :not(selector)

**Interpretation:** • It selects the elements that are not matching with the given selector.

Result elements: <tag1> </tag1>

<tag2> </tag2>

...

#### 2.79. CSS 3 Pseudo Classes - nth-child

**Example:** :nth-child(n)

**Interpretation:** • It selects the elements that is nth child of its parent.

Result elements: <parent>

<tag1> </tag1> </tag1> </tag1> </parent>

CSS 3 – Cheat Sheet 11 of 12





2.80. CSS 3 Pseudo	Elements - before
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**Example:** tag1::before

**Interpretation:** • It inserts some content before the <tag1>.

**Result elements:** <tag1> </tag1>

<tag1> </tag1>

#### 2.81. CSS 3 Pseudo Elements - after

**Example:** tag1::after

**Interpretation:** • It inserts some content after the <tag1>.

Result elements: <tag1> </tag1>

<tag1> </tag1>

### 2.82. CSS 3 Pseudo Elements - selection

**Example:** ::selection

**Interpretation:** • It selects the text, which is selected by the user.

**Result elements:** <tag1> text here </tag1>

<tag1> text here </tag1>

CSS 3 – Cheat Sheet 12 of 12