Notite CSS

(W3Schools Source)

CSS Selectors

To select an element with a specific id, write a hash (#) character, followed by the id of the element:

```
#para1 {
   text-align: center;
   color: red;
}
```

To select elements with a specific class, write a period (.) character, followed by the class name:

```
.center {
  text-align: center;
  color: red;
}
```

You can also specify that only specific HTML elements should be affected by a class:

```
p.center {
  text-align: center;
  color: red;
}
```

The universal selector (*) selects all HTML elements on the page.

To group selectors, separate each selector with a comma:

```
h1, h2, p {
  text-align: center;
  color: red;
}
```

Selector	Example	Example description
<u>#id</u>	#firstname	Selects the element with id="firstname"
<u>.class</u>	.intro	Selects all elements with class="intro"
<u>element.class</u>	p.intro	Selects only elements with class="intro"
*	*	Selects all elements
<u>element</u>	р	Selects all elements
element,element,	div, p	Selects all <div> elements and all elements</div>

External style: another file .css

Internal style: using <style></style> tag
Inline style: write style as attribute:

```
<h1 style="color:blue;text-align:center;">Sall</h1>
```

CSS Colors

```
Ways to set background colors (Tomato color):
```

CSS Backgrounds

To set the background image repeat only horizontally:

```
background-image: url("gradient_bg.png");
background-repeat: repeat-x; // or repeat-y; no repeat;
background-position: right top;
background-attachment: fixed; //or scroll;
repeat - there also exist repeat-y and no-repeat
```

position - also we can set the position where the image will be displayed attachment - the image remains fixed in the window even if we scroll

If we want to shorten the code, the following line is equivalent to the 4 lines from above:

```
background: url("gradient_bg.png") repeat-x right top fixed;
background-clip and background-origin have border-box, padding-box, content-box attributes.
```

// these are used to position the image somewhere in the window.

Value	Description	Demo
border-box	Default value. The background extends behind the border	Demo >
padding-box	The background extends to the inside edge of the border	Demo >
content-box	The background extends to the edge of the content box	Demo >
initial	Sets this property to its default value. Read about initial	
inherit	Inherits this property from its parent element. Read about inherit	

CSS Borders

A mixed border.

```
p.dotted {border-style: dotted;}
p.dashed {border-style: dashed;}
p.solid {border-style: solid;}
p.double {border-style: double;}
p.groove {border-style: groove;}
p.ridge {border-style: ridge;}
p.inset {border-style: inset;}
p.outset {border-style: outset;}
p.none {border-style: none;}
p.hidden {border-style: hidden;}
p.mix {border-style: dotted dashed solid double;}
 A dotted border.
 A dashed border.
 A solid border.
 A double border.
 A groove border. The effect depends on the border-color value.
 A ridge border. The effect depends on the border-color value.
 An inset border. The effect depends on the border-color value.
 An outset border. The effect depends on the border-color value.
 No border.
 A hidden border.
```

There exist also border-left-style, border-top-style....

```
border-width: 25px 10px 4px 35px; /* 25px top, 10px right, 4px
bottom and 35px left */
border-width: 20px 5px; /* 20px top and bottom, 5px on the sides
*/
```

```
border-color: red green blue yellow; /* red top, green right,
blue bottom and yellow left */
border-radius: 5px; //to add rounded borders
```

• CSS Margins

Property	Description
margin	A shorthand property for setting all the margin properties in one declaration
margin-bottom	Sets the bottom margin of an element
margin-left	Sets the left margin of an element
margin-right	Sets the right margin of an element
margin-top	Sets the top margin of an element

The margin-bottom and margin-top collapse, meaning if margin-bottom for the first element is 50px and margin-top for the second element is 20px, the margin will be 50px, not 70px (Works just for bottom and top).

margin:... values:

Value	Description	Demo
length	Specifies a margin in px, pt, cm, etc. Default value is 0. Negative values are allowed. Read about length units	Demo >
%	Specifies a margin in percent of the width of the containing element	Demo >
auto	The browser calculates a margin	Demo >
initial	Sets this property to its default value. Read about initial	
inherit	Inherits this property from its parent element. Read about inherit	

· CSS Padding

When we use width and padding at the same time, the px values add up, which is often undesirable. To avoid this, you can use box-sizing property:

```
div {
  width: 300px;
  padding: 25px;
  box-sizing: border-box;
}
```

undesirable result:

Padding and element width

The width of this div is 350px, even though it

This div is 300px wide.

desirable result:

Padding and element width - with box-sizing

This div is 300px wide.

The width of this div remains at 300px, in spite of the 50px of total left

• CSS Height/Width

The CSS height and width properties are used to set the height and width of an element.

The CSS max-width property is used to set the maximum width of an element.

The height and width properties may have the following values:

- auto This is default. The browser calculates the height and width
- length Defines the height/width in px, cm, etc.
- % Defines the height/width in percent of the containing block
- initial Sets the height/width to its default value
- inherit The height/width will be inherited from its parent value

CSS Box Model



· CSS Outline

An outline is a line drawn outside the element's border.

It may overlap other content, because it is not part of the element's dimensions.

The outline-style property can have all the values from "CSS Borders" section. Also, it has all the other properties that borders have (and their values). Only outline-offset is new!

Property	Description
<u>outline</u>	A shorthand property for setting outline-width, outline-style, and outline-color in one declaration
outline-color	Sets the color of an outline
outline-offset	Specifies the space between an outline and the edge or border of an element
outline-style	Sets the style of an outline
outline-width	Sets the width of an outline

CSS Text

direction property - sets the text direction (values are: rtl, ltr)
unicode-bidi property - sets the text direction (values are: bidi-override)
For some reason, they must be used together in order to work.

Property	Description
direction	Specifies the text direction/writing direction
text-align	Specifies the horizontal alignment of text
text-align-last	Specifies how to align the last line of a text
unicode-bidi	Used together with the <u>direction</u> property to set or return whether the text should be overridden to support multiple languages in the same document
vertical-align	Sets the vertical alignment of an element

vertical-align values are: baseline, text-top, text-bottom, sub, super. text-decoration-line values are: overline, line-through, underline:

Overline text decoration

Line-through text decoration

Underline text decoration

Overline and underline text decoration.

Also you can specify a color to the decoration line using text-decoration-color property and specify a style for it using text-decoration-style property and set the thickness using text-decoration-thickness property (values in px).

Property	Description
text-decoration	Sets all the text-decoration properties in one declaration
text-decoration-color	Specifies the color of the text-decoration
text-decoration-line	Specifies the kind of text decoration to be used (underline, overline, etc.)
text-decoration-style text-decoration-colo text-decoration-thickness	Specifies the style of the text decoration (solid flotted etc.) Specifies the thickness of the text decoration line

text-decoration-style - specify a style for the decoration line text-decoration-thickness - set the thickness (its values are in px) text-transform - transform the text into "uppercase", "lowercase", "capitalize" (these are the values ^_^)

text-indent - specify the indentation of the first line of a text (in px)

letter-spacing - specify the space between the characters in a text (in px; works with negative numbers!)

line-height - specify the space between lines (ex. values: 0.8, 1.8, etc.) word-spacing - specify the space between the words in a text (in px; works with negative numbers!)

white-space - specify how the white-space inside an element is handled. The values are:

Value	Description	Demo
normal	Sequences of whitespace will collapse into a single whitespace. Text will wrap when necessary. This is default	Demo >
nowrap	Sequences of whitespace will collapse into a single whitespace. Text will never wrap to the next line. The text continues on the same line until a br> tag is encountered	Demo >
pre	Whitespace is preserved by the browser. Text will only wrap on line breaks. Acts like the $<$ pre>tag in HTML	Demo >
pre-line	Sequences of whitespace will collapse into a single whitespace. Text will wrap when necessary, and on line breaks	Demo >
pre-wrap	Whitespace is preserved by the browser. Text will wrap when necessary, and on line breaks	Demo >
initial	Sets this property to its default value. Read about initial	
inherit	Inherits this property from its parent element. Read about inherit	

Property	Description
<u>letter-spacing</u>	Specifies the space between characters in a text
<u>line-height</u>	Specifies the line height
text-indent	Specifies the indentation of the first line in a text-block
white-space	Specifies how to handle white-space inside an element
word-spacing	Specifies the space between words in a text

text-shadow - adds shadows to text (values in px, you specify the horizontal shadow and the vertical shadow): text-shadow: 2px 2px 5px red;
The third value is the blur.

CSS Fonts

font-family - specify the font of a text

It is a good practice to write more fonts in case the first fonts are not available: font-family: Tahoma, Verdana, sans-serif;

font-style - used to specify italic text (values are: normal, italic, oblique (less supported))

font-weight - used to apply bold to a text (values are: normal, bold)

font-variant - used to apply small-caps or not (values are: normal, small-caps)

font-size - apply size to text (values are: px, %, em - for allowing users to

resize the text (1 em = 16px), vw - for resizing the text according to the size of
the window)

Good To Know:

Georgia font - good for headings Verdana font - good for paragraphs

You can use all the properties in one like this:

font: italic small-caps bold 12px/30px Georgia, serif;

Property	Description
font	Sets all the font properties in one declaration
font-family	Specifies the font family for text
font-size	Specifies the font size of text
font-style	Specifies the font style for text
font-variant	Specifies whether or not a text should be displayed in a small-caps font
font-weight	Specifies the weight of a font

• CSS Links

```
/* unvisited link */
a:link {
   color: red;
}

/* visited link */
a:visited {
   color: green;
}

/* mouse over link */
a:hover {
   color: hotpink;
}

/* selected link */
a:active {
```

```
color: blue;
}
```

a:hover MUST come after a:link and a:visited a:active MUST come after a:hover

Funny Feature:

This example demonstrates different types of cursors:

```
<span style="cursor: auto">auto</span><br>
<span style="cursor: crosshair">crosshair
<span style="cursor: default">default</span><br>
<span style="cursor: e-resize">e-resize</span><br>
<span style="cursor: help">help</span><br>
<span style="cursor: move">move</span><br>
<span style="cursor: n-resize">n-resize<//span><br>
<span style="cursor: ne-resize">ne-resize</span><br>
<span style="cursor: nw-resize">nw-resize
<span style="cursor: pointer">pointer</span><br>
<span style="cursor: progress">progress</span><br>
<span style="cursor: s-resize">s-resize</span><br>
<span style="cursor: se-resize">se-resize</span><br>
<span style="cursor: sw-resize">sw-resize</span><br>
<span style="cursor: text">text</span><br>
<span style="cursor: w-resize">w-resize</span><br>
<span style="cursor: wait">wait</span>
```