CSS

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| * HTML is for content of the text, while css is for styling it. * <https://www.w3schools.com/css/default.asp> * CSS syntax: (<https://www.w3schools.com/css/css_syntax.asp)>   ../../Desktop/Screen%20Shot%202019-02-18%20at%2012.19.33.png |

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| Ways of inserting a style sheet:  <https://www.w3schools.com/css/css_howto.asp>   * 1. Inline style   <html>  <body><h1 style=”color:blue;”>This is a heading</h1></body>  </html>   * 1. Internal style sheet   <head>  <style>  h1  {   text-align: center; }  </style>  </head>  <body><h1”>This is a heading</h1></body>   * 1. External style sheet   // first, transfer the style into style.css file  <head><link rel=”stylesheet” type=”text/css” href=”style.css”></head>  <body><h1”>This heading is formatted using external css</h1></body> |

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| CSS Selectors:  <https://www.w3schools.com/css/css_howto.asp>   1. element selector: style will be applied to whole text within the tag   p  {   text-align: center;  vertical-align: center; /\* VERTICAL ALIGNMENT OF TEXT !!! \*/ }  grouped element selector:  h1, h2, p  {   text-align: center;   color: red; }   1. id selector:   #idcenter  {   text-align: center;   color: red; }  <p id="idcenter">Hello World!</p>   1. class selector:   .classcenter  {   text-align: center;   color: red; }  <h1 class="classcenter">Hello World!</h1>  <p class="classcenter">Hello World!</p> |

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| id vs. class   * id belongs to one element * multiple elements may have the same class name.   (DEITEL 4.1, 4.2, 4.3, 4.5, 4.8, 4.9, 4.10, 4.12) |

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| /\* this is a CSS comment \*/ |

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| box model  [www.w3schools.com/css/css\_boxmodel.asp](http://www.w3schools.com/css/css_boxmodel.asp)  ../../Desktop/Screen%20Shot%202019-02-18%20at%2014.50.29.png |

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| * border-style   <https://www.w3schools.com/css/css_border.asp>   * border-width   border-width: medium|thin|thick|length|initial|inherit;   * border-style   border-style: [dotted, dashed, solid, double, none]  /\* example \*/  <!DOCTYPE html><html><head><style>  h1 {  border-style: solid;  }  p {  border-top-style: dotted;  border-right-style: solid;  border-bottom-style: dotted;  border-left-style: solid;  }  </style></head><body>  <h1>same borders</h1>  <p>different borders</p>  </body></html>   * border-color   p {  border-style: solid;  border-color: red; }  <p>paragraph with a solid red border</p>   * combining border properties (border-width, border-style, border-color )   h1  {  border: 10px solid red; }  p  {  border-bottom: 10px solid red; }  <h1>heading with 10px width, solid border, red color </h1>  <p>paragraph with the bottom line 10px, solid border, red color </p> |

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| * box margins   <https://www.w3schools.com/css/css_margin.asp>  margin: [auto, Xpx, X%, none]  h1  {  margin: 25px 50px 75px; /\* TOP – RIGHT – BOTTOM – LEFT \*/ }  p  {    margin-top: 100px;    margin-right: 100px;    margin-bottom: 150px;    margin-left: 80px; }  h1 {  margin: 0px 0px 50px 0px; /\* TOP – RIGHT – BOTTOM – LEFT \*/ }  p {  margin: 50px 0px 0px 0px; /\* TOP – RIGHT – BOTTOM – LEFT \*/ }   * box padding   <https://www.w3schools.com/css/css_padding.asp>  padding: [auto, Xpx, X%, none]  p  {  padding: 25px 50px 75px; /\* TOP – RIGHT – BOTTOM – LEFT \*/ }  p  {    padding-top: 100px;    padding-right: 100px;    padding-bottom: 150px;    padding-left: 80px; } |

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| height & width of the element  <https://www.w3schools.com/css/css_dimension.asp>  height: [Xpx, X%]  width: [Xpx, X%] |

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| * block-level property vs. inline element   <https://www.w3schools.com/css/css_display_visibility.asp>   * A block-level element always starts on a new line and takes up the full width available (stretches out to the left and right as far as it can).   <div> /\* is an block element to GROUP items www.w3schools.com/html/html\_blocks.asp \*/  <h1> - <h6>  <p>  <form>  <header>  <footer>  <section>   * An inline element does not start on a new line and only takes up as much width as necessary.   <span> /\* is an inline element to GROUP items www.w3schools.com/html/html\_blocks.asp \*/  <a>  <img> |

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| * DIV   <https://www.w3schools.com/tags/tag_div.asp>  <div>  is often used as a container for other HTML elements. <div>  has no required attributes, but style, class and id are common. When used together with CSS, <div>  can be used to style **blocks** (vs. parts in <span>) of content:  <div style="background-color:black;color:white;padding:20px;">   <h2>NFC Lab</h2>   <p>NFC Lab is one of the leading research labs in the world.</p> </div>  div {   width: 300px;   border: 25px solid green;   padding: 25px;   margin: 25px; } |

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| * line-height   <https://www.w3schools.com/css/css_text.asp>  p.small { line-height: 0.8; }  p.normal { line-height: 1.2; }  p.big { line-height: 1.8; }  <p class=”small”>small line height </p>  <p class=”normal”>normal line height </p>  <p class=”big”>big line height </p> |

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| * letter-spacing   <https://www.w3schools.com/css/css_text.asp>  h1 { letter-spacing: 3px; } |

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| * link states   [www.w3schools.com/css/css\_link.asp](http://www.w3schools.com/css/css_link.asp)  a:link  { color: red } /\* unvisited link \*/ a:visited { color: green; } /\* visited link \*/ a:hover  { color: hotpink; } /\* mouse over link \*/ a:active  { color: blue; } /\* selected link \*/ |
| * border-collapse   [www.w3schools.com/css/tryit.asp?filename=trycss\_table\_border-collapse](http://www.w3schools.com/css/tryit.asp?filename=trycss_table_border-collapse) |

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| * display & visibility   <https://www.w3schools.com/css/css_display_visibility.asp>  display: none | inline | block | inline-block  visibility: visible | hidden | collapse | initial | inherit  float: none | left | right (<https://www.w3schools.com/css/css_float.asp>) |