Web fundamentals

Saturday, June 19, 2021

5:21 PM

Headers: <h1> through <h6>

<h1>Most important</h1>

<h2>h2</h2>

<h3>h3</h3>

<h4>h4</h4>

<h5>h5</h5>

<h6>least important header</h6>

paragraphs of text: <p>

<p>This is a paragraph.</p>

<p>This is a second paragraph.</p>

Hyperlinks (anchor tags): <a>

important attribute: href (the url to route to)

<a href="http://learn.codingdojo.com">Learn Platform</a>

Emphasis and Strong: <em> and <strong>

<strong> and <em> are often used inside of paragraphs <p>

<p><em>This</em> is an <strong>example!</strong></p>

Unordered (bullet) lists: <ul> with nested <li> that contain the list items

<ul>

    <li>Dog</li>

    <li>Cat</li>

    <li>Dragon</li>

    <li>Monkey</li>

</ul>

ordered (numbered) lists: <ol> with nested <li> that contains the items

<ol>

    <li>Dog</li>

    <li>Cat</li>

    <li>Dragon</li>

    <li>Monkey</li>

</ol>

Tables: <table> with nested <tr> (table rows) that contain nested <th> or <td> for header or regular data cells, respectively

<table>

    <tr>

        <th>Movie</th>

        <th>Year</th>

        <th>Rating</th>

    </tr>

    <tr>

        <td>Up</td>

        <td>2009</td>

        <td>PG</td>

    </tr>

    <tr>

        <td>The Matrix</td>

        <td>1999</td>

        <td>R</td>

    </tr>

</table>

images: <img>

important attributes: src (the image file path) and alt

<img src="panda.jpg" alt="panda pic”>

To resize <img> include width="200" height="175" in-between source and alt

Videos: <videos>

important attributes: src (the video file path) and controls

<video src="monkey2.mp4" controls></video>

If we want a video to autoplay on modern browsers, we need to include autoplay, loop, and muted.

<video src="monkey2.mp4" autoplay loop muted></video>

How to indent:

just tap TAB key,=. 1 Tab is equal to 4 spaces

<div> :

Similar tags that belong together can be grouped together

Text inputs

<input type="text" name="first\_name">

Number Inputs

<input type="number" name="age">

Passwords

<input type="password" name="password">

Date (the date input isn't supported on all browsers):

<input type="date" name="dob">

Color

<input type="color" name="text\_color">

Radio

Including the "id" and "for" attributes allow for clicking the label text to change the inputs.

<input type="radio" name="font" value="bold" id="bold">

<label for="bold"><strong>Bold</strong><label>

<input type="radio" name="font" value="normal" id="normal">

<label for="normal">Normal<label>

Checkbox

<input type="checkbox" name="accept" id="accept">

<label for="accept">I agree<label>

Textarea

<textarea name="comment" cols="20" rows="3">

</textarea>

Select

<select name="snack">

<option>Almonds</option>

<option>Cheese and Crackers</option>

<option>Pita and Hummus</option>

<option>Pears</option>

</select>

CSS (coloring)

Start new folder

Inside folder start new .html file

Then start another file called style.css

In the style.css

H1{

background-color: ;

color: ;

}

Then include link tag in .html file

<link rel="stylesheet" href="style.css">

If you want a back ground color for whole page then:

Body {

background-color: ;

}

To color different tags:

In .html select the tag then create a class:

<h1 class="green">I want to be green!</h1>

Then go to .CSS

Type in .green {background-color: ;

}

To make another of the tags a different color:

<h1 class="green" id="red">I want to be red</h1>

Then go to .CSS

#red{

background-color: tomato;

}

!important; will override everything

Selectors:

Select class by using .

Select id by using #

Select all by using \*

CSS Properties- Color

Named colors

RGB (3 numbers between 0 and 255) they are set for red, green, blue

Hexadecimal works very similarly to rgb with each pair of numbers/letters representing the red, green, and blue respectively. We can think of hexadecimal like switching to letters when we run out of numbers, in hexadecimal (0,1,2,3,4,5,6,7,8,9,a,b,c,d,e,f)

When we apply css we need to keep in mind that color changes the color of the text, and background-color changes the color of the background of whatever element we have selected

To color two different colors use

<span style=”color:\_\_\_\_”> </span>

CSS properties – Text

Text Alignment

We can adjust the text alignment using text-align

Text-align: left;

Text-align: center;

Text-align: right;

Text Decoration / font style/ font weight

We can apply (or remove) and underline to text using the tex-decoration property

Text-decoration: underline;

~~Text-decoration: line-through;~~

Text-decoration: none;

We can apply or remove italics using font-style

*Font-style: italic;*

Font-style: normal;

We can make text **bold** or narrow with font-weight

Font-weight: normal;

Font-weight: light;

**Font-weight: bold;**

The font-weight property also accepts number values: 100,200,300,400,500,600,700,800,900

Note that font-weight will only be applied if the font-family contains styles for it

Font Family

There is a lot to know about fonts, but for now lets focus on the basic types: serif, sans-serif, monospace, and cursive.

Font-family: serif;

Font-family: sans-serif;

Font-family: monospace;

Font-family: cursive;

Sizes:

The width and height properties are used to determine the size of your elements. The values can be expressed in pixels (px) and percentage (%)

a {

width: 25px;

}

div {

width: 100%;

height: 200px;

}

img {

width: 250px;

}

The Box Model

All web layouts are accomplished with block elements. Designers use blocks, most often <div> elements, to creat rectangular areas into which all content fits. There are only three rules:

Total area: the space an element occupies and affects

Float, clear and overflow

Nested elements

Margin adds spaces outside block

Padding adds space inside box

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

<link rel="stylesheet" href="style.css">

<link rel="preconnect" href="https://fonts.gstatic.com">

<link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap" rel="stylesheet">

</head>

<body>

<div class="top">

<div class="nav">

<h1 class="nav-title">Profile</h1>

<ul class="nav-links">

<li><a href="#">Home</a></li>

<li><a href="#" class="active">My Profile</a></li>

<li><a href="#">Find Connections</a></li>

<li><button class="btn">Sign Out</button></li>

</ul>

</div>

</div>

<div class="container">

<div class="row">

<!-- left column -->

<div class="col-2">

<div class="user-card">

<div class="card-header">

<img src="images/jane-m.jpg" alt="jane-medium-avatar" class="avatar-m">

</div>

<div class="card-body">

<h1>Jane Doe</h1>

<h3>

<img src="images/map-marker.png" alt="pin" class="icon-s">

Seattle

</h3>

<p>Developer | Engineer | Problem Solver<br>

Master of shadows and the Internet!</p>

<p>

<a href="#">

<img src="images/gear.png" alt="gear" class="icon-s">

edit profile

</a>

</p>

</div>

</div>

<div class="card">

<div class="header">

Education

</div>

<div class="card-body">

<h2>Coding Dojo Full Stack Bootcamp</h2>

<p class="dates">Dec 2019 - Mar 2020</p>

<p>Triple Black Belt in Pyton, C#, and MERN...</p>

</div>

</div>

</div>

<!-- right column -->

<div class="col">

<div class="card">

<div class="header">

<span class="connections">2</span>

Connection Requests

</div>

<div class="user-line">

<span class="start">

<img src="images/todd-s.jpg" alt="todd" class="avatar-s">

<span>Todd E.</span>

</span>

<span class="end">

<img src="images/accept-circle.png" alt="accept" class="avatar-s">

<img src="images/close-circle.png" alt="decline" class="avatar-s">

</span>

</div>

<div class="user-line">

<span class="start">

<img src="images/phil-s.jpg" alt="phil" class="avatar-s">

<span>Phil K.</span>

</span>

<span class="end">

<img src="images/accept-circle.png" alt="accept" class="avatar-s">

<img src="images/close-circle.png" alt="decline" class="avatar-s">

</span>

</div>

</div>

<div class="card">

<div class="header">

<span class="connections">500+</span>

Your Connections

</div>

<div class="user-line">

<span class="start">

<img src="images/adrien-s.jpg" alt="adrien" class="avatar-s">

<span>Adrien D.</span>

</span>

</div>

<div class="user-line">

<span class="start">

<img src="images/anne-s.jpg" alt="anne" class="avatar-s">

<span>Anne J.</span>

</span>

</div>

<div class="user-line">

<span class="start">

<img src="images/alayne-s.jpg" alt="alayne" class="avatar-s">

<span>Alayne T.</span>

</span>

</div>

<div class="user-line">

<span class="start">

<img src="images/arry-s.jpg" alt="arry" class="avatar-s">

<span>Arry Y.</span>

</span>

</div>

<div class="footer">

<a href="#">View More</a>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

\* {

margin: 0;

padding: 0;

}

body {

font-family: 'Roboto', sans-serif;

background-color: #f3f3f3;

}

.top {

background-color: #333333;

}

.nav {

width: 1080px;

margin: 0 auto;

color: #ffffff;

height: 80px;

display: flex;

align-items: center;

justify-content: space-between;

}

.nav-links {

width: 50%;

display: flex;

align-items: center;

list-style-type: none;

justify-content: space-around;

}

.nav a {

color: #ffffff;

text-decoration: none;

}

.nav-title {

margin-left: 20px;

}

.btn {

height: 35px;

width: 100px;

background-color: #17a2b8;

color: #ffffff;

border: none;

font-size: 16px;

box-shadow: 5px 5px #000000;

}

.container {

width: 1080px;

margin: 0 auto;

}

.row {

display: flex;

}

.col, .col-2 {

margin: 10px;

padding: 10px;

flex: 1;

}

.col-2 {

flex: 2;

}

.flex-container {

width: 1000px;

margin: 0 auto;

display: flex;

justify-content: space-between;

align-items: center;

}

.user-card, .card {

width: 100%;

background-color: #fff;

border: 2px solid #999;

margin-bottom: 20px;

border-radius: 5px;

font-size: 1.2rem;

overflow: hidden;

}

.card-header {

background-color: #17a2b8;

height: 125px;

margin-bottom: 70px;

}

.card-body {

padding: 20px;

}

.card-body h1,

.card-body h2,

.card-body h3,

.card-body p {

margin: 20px 0px;

}

.avatar-m {

border-radius: 50%;

background-color: #fff;

height: 190px;

padding: 5px;

margin-top: 20px;

margin-left: 20px;

}

.icon-s {

height: 20px;

}

a {

color: #3a81e6;

}

.header {

background-color: #333333;

padding: 20px;

color: #ffffff;

font-size: 24px;

display: flex;

align-items: center;

}

.avatar-s {

border-radius: 50%;

height: 48px;

margin-right: 10px;

}

.user-line {

display: flex;

justify-content: space-between;

margin: 20px;

}

.start, .end {

display: flex;

align-items: center;

font-size: 24px;

}

.dates {

font-size: 20px;

color: #777;

}

.footer {

padding: 20px;

border-top: 2px solid #999;

}

.connections {

background-color: #eee;

color: #333;

font-size: 20px;

border-radius: 12px;

height: 24px;

padding: 0 10px;

margin-right: 10px;

}