* A **hyperlink** is a location in a document that links to another location in that document or links to another document or resource
*  **http://www.mywebsite.com/categories/shoes.html**
*  **http://** is the communication protocol
*  **www.mywebsite.com** is the domain of my website
*  **categories** is a **room/folder** in my website
*  **shoes.html** is the HTML document
* Links are created using the **<a>** element
* **<a href=“/categories/shoes.html”>**Shoes**</a>**
* **<a href=“http://www.microsoft.com”>**Microsoft’s Website**</a>**
* **<a href="mailto:jon@example.org">Email Jon</a>**
* <body id="top">
* <a href="#top">Take me to top</a>
* <p><a href="./index.html">Go back home</a></p>
* <p><a href="../../index.html">Go back home</a></p>
* The ordered list is created with the **<ol>** element.
* Each item in the list is placed between an opening **<li>** tag and a closing **</li>** tag. (The **li** stands for list item.)
* <ol>
* <li>List Item 01</li>
* <li>List Item 02</li>
* <li>List Item 03</li>
* <li>List Item 04</li>
* </ol>
* The unordered list is created with the **<ul>** element.
* Each item in the list is placed between an opening **<li>** tag and a closing **</li>** tag.
* <ul>
* <li>List Item 01</li>
* <li>List Item 02</li>
* <li>List Item 03</li>
* <li>List Item 04</li>
* </ul>
* <!--Nested list-->
* <h2>Nested list</h2>
* <ol>
* <li>Television</li>
* <li>Computers
* <ul>
* <li>Laptop
* <ul>
* <li>Asus</li>
* <li>HP</li>
* <li>Lenovo</li>
* </ul>
* </li>
* <li>Desktop</li>
* </ul>
* </li>
* <li>Mobile</li>
* </ol>
* The description list is created with the **<dl>** element and usually consists of a series of terms and their descriptions.
* Inside the **<dl>** element you will usually see pairs of **<dt>** and **<dd>** elements.
* **<dt>** is used to contain the term being described.
* **<dd>** is used to contain the description.
* <dl>
* <dt>Sashimi</dt>
* <dd>Sliced raw fish that is served with condiments such as
* shredded daikon radish or ginger root, wasabi and soy sauce</dd>
* <dt>Scale</dt>
* <dd>A device used to accurately measure
* the weight of ingredients</dd>
* </dl>
*  **<b>**Bold**</b>** - **Bold**
*  **<i>**Italic**</i>** - *Italic*
*  **<u>**Underline**</u>** - Underline
*  **<table>** - Specifies a table
*  **<caption>** - Specifies a table caption
*  **<thead>** - Specifies table header row
*  **<tbody>** - Specifies table body rows
*  **<tfoot>** - Specifies table footer rows
*  **<tr>** - Specifies a table row
*  **<th>** - Specifies a table header cell
*  **<td>** - Specifies table data cell
* <!-- Basic table -->
* <table border="2">
* <!--subject on table-->
* <caption>
* Users and emails
* </caption>
* <thead>
* <th>First and Last Name</th>
* <th>Email</th>
* </thead>
* <tbody>
* <tr>
* <td>John Doe</td>
* <td>johndoe@email.com</td>
* </tr>
* <tr>
* <td>Jill Wayne</td>
* <td>jillwayne@mail.com</td>
* </tr>
* </tbody>
* </table>
* **colspan -** Sometimes you may need the entries in a table to stretch across more than one column
* **rowspan -** You may also need entries in a table to stretch down across more than one row
* <img src="img/imagename.png" alt="image description" />
* <!-- Rowspan and colspan -->
* <table border="2">
* <caption>
* Colspan and rowspan together
* </caption>
* <thead>
* <th>Time</th>
* <th>Monday</th>
* <th>Tuesday</th>
* <th>Wednesday</th>
* </thead>
* <tbody>
* <tr>
* <td>8AM - 9AM</td>
* <td
* rowspan="2"
* style="background-color: chartreuse; border-radius: 50%"
* >
* Math
* </td>
* <td rowspan="3" colspan="2" style="background-color: red">Science</td>
* </tr>
* <tr>
* <td>9AM - 10AM</td>
* </tr>
* <tr>
* <td>10AM - 11AM</td>
* <td>English</td>
* </tr>
* </tbody>
* </table> A green and red squares with black text

  Description automatically generated
*  **src** - The image URL. Mandatory for the **<img />** element.
*  **alt** - Defines an alternative text description of the image
* <img src="./images/minion-dancing.gif" alt="Dancing minion" />
*  **width** - specifies the width of the image in pixels
*  **height** - specifies the height of the image in pixels
*  **<form>** The <form> element should always carry the **action** and **method** attributes
*  The **action** attribute defines the action to be performed when the form is submitted
*  The **method** attribute specifies the **HTTP method (GET or POST)**
* <form>
* <fieldset>
* <label for="name">Name</label>
* <input type="name" name="name" id="name">
* <br><br>
* <label for="password">Password</label>
* <input type="password" name="password" id="password">
* <br><br>
* <label for="gender">gender</label>
* <input type="radio" name="gender" id="male" value="male">
* <label for="male">male</label>
* <input type="radio" name="gender" id="female" value="female">
* <label for="female">female</label>
* <br><br>
* <hr>
* <label for="continent">continent</label>
* <select name="continent" id="continent">
* <option value=""(ili disabled selected)>please select</option>
* <option value="europe">europe</option>
* <option value="africa">africa</option>
* <option value="asia">asia</option>
* </select>
* <br><br>
* <label for="meals">meals</label>
* <input type="checkbox" name="meals" id="breakfast" value="breakfast">
* <label for="breakfast">breakfast</label>
* <input type="checkbox" name="meals" id="lunch" value="lunch">
* <label for="lunch">lunch</label>
* <input type="checkbox" name="meals" id="dinner">
* <label for="dinner">dinner</label>
* <br><br>
* <label for="remark">remark</label>
* <textarea name="remark" id="remark" rows="6" cols="20"></textarea>
* <br><br>
* <button type="submit">send</button>
* <button type="reset">cancel</button> A screenshot of a computer screen

  Description automatically generated
* </fieldset>
* </form>

 **<input type="date" />**

 **<input type="email" />**

 **<input type="url" />**

 **<input type="search" value="Search" />**

**A screenshot of a web page

Description automatically generated**

**<header>**represents a group of introductory content.

* **<footer>**represents a group of end content for a page that generally contains fine print, copyright notices, contact info or secondary navigation
* **The <nav>**contains the main navigation functionality for the page. Many web designers consider the navigation bar to be part of the header rather than an individual component
* **The <main>**is for content unique to this page. Use**<main>**only once per page, and put it directly inside**<body>**
* **The <article>**element encloses a block of related content that makes sense on its own without the rest of the page
* **The <section>**element is similar to**<article>,** but it is more for grouping together a single part of the page that constitutes one single piece of functionality
* The **<aside>** element contains content that is not directly related to the main content but can provide additional information indirectly related to it
* **<div>** is a block level non-semantic element
* **<span>** is an inline non-semantic element
* <!-- Import 'Doto' font using links -->
* <link rel="preconnect" href="https://fonts.googleapis.com">
* <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
* <link href="https://fonts.googleapis.com/css2?family=Doto:wght@100..900&display=swap" rel="stylesheet">
* <!-- NOTE: It's better to import the fonts before actually using them in the style.css file, so the links should be above the one connecting the html to the css file -->
* <link rel="stylesheet" href="styles/style.css" type="text/css">
* /\* Poppins - Bold \*/
* @font-face {
* font-family: "Poppins";
* src: url("../fonts/Poppins/Poppins-Bold.ttf") format("truetype");
* font-weight: bold;
* font-style: normal;
* /\* ========== Color Name ========== \*/
* .color-name {    color: tomato;}
* /\* ========== RGB color ========== \*/
* .rgb-color {    color: rgb(255, 252, 71);}
* /\* ========== RGBA color (with opacity) ========== \*/
* .rgba-color {    color: rgba(71, 111, 255, 0.2);}
* /\* ========== Hex Code ==========\*/
* .hex-code {    color: #b3e864;}
* /\* ========== HSL Code ==========\*/
* .hsl-color {    color: hsl(275, 100%, 64%);}
* .decorated-text {
* /\* text-decoration-style: wavy; \*/
* /\* text-decoration-thickness: 2px; \*/
* /\* text-decoration-line: underline; \*/
* /\* text-decoration-line: underline overline; \*/
* /\* text-decoration-color: red; \*/
* text-decoration: dotted underline 3px red;
* text-transform: uppercase;
* text-align: center;
* /\*  **Block Box** (block level elements)
* => The box will break onto a new line
* => The box will extend in the inline direction to fill the space available in its container
* => The width and height properties are respected\*/
* h2 {  background-color: chocolate;
* width: 100px;    height: 100px;}
* /\*  **Inline Box**  (inline elements)
* => The box will not break onto a new line
* => The width and height properties will not apply\*/
* a {    background-color: rgb(199, 208, 37);
* /\* width & height not applied \*/
* width: 100px;    height: 100px;}
* /\* **Standard Box** Model (default) \*/
* /\* In the Standard Box Model (default), the width and height define only the content. Padding, border, and margin are added outside the width and height.\*/
* .standard-box {    box-sizing: content-box;
* width: 200px;    height: 100px;
* padding: 20px;    border: 10px solid blue;
* margin: 10px;    background-color: lightblue;}
* /\* **Alternative Box** Model \*/
* /\* In the Alternative Box Model, the width and height include the content, padding, and border. The size of the box remains fixed, and padding and border are calculated inside the defined dimensions.\*/
* .alternative-box {    box-sizing: border-box;
* width: 200px;    height: 100px;
* padding: 20px;    border: 10px solid green;
* margin: 10px;    background-color: lightgreen;}

A screenshot of a computer screen

Description automatically generated



The **Flexible Box Module**, usually referred to as flexbox, was designed as a **one-dimensional layout model**

using **flexbox** is called a **flex container**. the *direct children* of that container become **flex items**.

* Items display in a row (the **flex-direction** property's default is **row**). start from the **start edge** of the *main axis*
* the ability to **align** and **justify** items on the *main-* and *cross-axes*
* The **justify-content** property is used to align the items on the *main-axis*, **flexbox**.
* The **align-content** property sets the distribution of space between and around content items along a flexbox's  
  *cross-axis*,

Java Script

Variables are used to store data

let number; // Declaration   
 number = 5; // Initialization   
 let number = 5; // Declaration and Initialization

let testVariable  
alert(testVariable); //shows **undefined**alert(typeof testVariable); //shows **undefined**

let testVariable = null;  
alert(testVariable); //shows **null**alert(typeof testVariable); //shows **object**

**key words in java script**

**A close-up of a white background

Description automatically generated**

**A table of math equations

Description automatically generated** **A screenshot of a math test

Description automatically generated** A table of mathematical equations

Description automatically generated

**// Ways to create strings:**

**// ===> using double quotes “ ”**

let doubleQuotes = "This is a string with double quotes";

**// ===> using single quotes ‘ ’**

let singleQuotes = 'This is a string with single quotes';

**// ===> using backticks ` `**

let backticksString = `This is a string with backticks (template literals)`;

**// used when combining variables and strings**

fullName = `Full name ${firstName} ${lastName}`;

Logical operators are typically used with **Boolean (logical)** values

A black and white text

Description automatically generated A black text on a white background

Description automatically generated

**Control structure** is grouped into conditional (branching) structures (e.g**. if/else, switch**)