CLASS: 14

Other Semantics
29 Aug 2023

1. Line Break
2. Blank Space
3. Preformatted <pre>
4. Code Block <code> It configures a code snippet to make SEO Friendly
5. Variables <var> It is used for variables in program.
6. Sample Text <samp> It is used for comments and captions in page.

Syntax:

```
<samp> Program to Print Addition </samp>
<code>
 <pre>
    int <var> x </var> = 10;
    int <var> y </var> = 20;
   </pre>
</code>
```

it is telling that this is a code area

Exactly as you would like to write the code.

-Wherever, you are writing these variables, they must be defined in the **<var>.**

Ex:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
     var {
      color:blue;
     }
     samp {
      color:gray;
     }
     code {
      color:brown;
     }
   </style>
</head>
<body>
   <div>
    <samp>Program to print length X Height</samp>
   </div>
   <code>
     <pre>
       #include &lt;stdio.h&gt;
       int main()
       {
```

```
        int <var>length</var> = 11;
        int <var>width</var> = 12;
        printf("%d\n", <var>length</var> * <var>width</var>);
      }
    </pre>
  </code>
</body>
</html>
```

7. Small Text <small> It sets letter size small
8. Large Text <big> It sets letter size large

Syntax:

```
<small> your text </small>
<big> your text </big>
```

9. Details & Summary

- Details is a container that can display expandable and collapsable content.
- Summary is a caption for details container.

Syntax:

```
<details>
   <summary> Title </summary>
   ... your content...
</details>
```

- If you want details to expand by default, then define the attribute "open".

Syntax:

```
 <details open>

</details>
```

Ex:

```
<!DOCTYPE html>m
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    details div {
      background-color: black;
      padding: 10px;
      color: white;
    }
  </style>
</head>
```

```
<body>
  <details open>
    <summary>What is Netflix?</summary>
    <div>
      Netflix is a streaming service that offers a wide variety of award-winning TV shows, movies, anime, documentaries and more – on thousands of internet-connected devices.
    </div>
  </details>
  <details>
    <summary>How much does Netflix cost?</summary>
    <div>
      Netflix is a streaming service that offers a wide variety of award-winning TV shows, movies, anime, documentaries and more – on thousands of internet-connected devices.
    </div>
  </details>
</body>
</html>
```

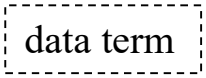
Ex:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    details span {
      display: block;
      margin-bottom: 10px;
      margin-left: 20px;
      background-color: black;
      color: white;
      padding: 4px;
      width: 150px;
    }
  </style>
</head>
<body>
  <nav>
    <details open>
      <summary>HTML</summary>
      <span>Normal Elements</span>
      <span>Void Elements</span>
      <span>Semantics</span>
      <span>Meta</span>
    </details>
    <details>
      <summary>CSS</summary>
      <span>Styles</span>
```

```
        <span>CSS Rules</span>
        <span>CSS Units</span>
        <span>CSS Colors</span>
      </details>
    </nav>
</body>
</html>
```

11. Datalist with Terms and Definitions

- HTML data list can be defined using <dl>
- It is a collection of terms defined with <dt> and definitions <dd>.



Syntax:

```
<dl>
  <dt> Term </dt>
  <dd> Definition </dd>
</dl>
```

Q: what is advantage of **dt** and **dd**?
Ans: These terms and definition has some default alignment and it is easy for presentation.

Ex-1:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    dt {
      background-color: gray;
      color: white;
      font-weight: bold;
      padding: 4px;
      margin-bottom: 5px;
    }
  </style>
</head>
<body>
 <dl>
  <dt>HTML</dt>
  <dt>Markup Language</dt>
  <dd>It is a markup language. </dd>
  <dd>It is used for presentation.</dd>
  <dd>Designed by Tim Berners Lee.</dd>
  <dt>CSS</dt>
  <dd>It defines styles.</dd>
  <dd>It can make HTML more interactive.</dd>
  <dt>JavaScript</dt>
  <dd>It manipulates DOM.</dd>
 </dl>
```

-there can be multiple term also, it depends on you.

-In every term, there can be several definitions.

```
</body>
</html>
```

Ex-2:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
      dl {
        display: grid;
        grid-template-columns: 3fr 9fr;
      }
      dt {
        background-color: black;
        color: white;
        padding: 4px;
        margin-bottom: 10px;
      }
      dd {
        background-color: lightgray;
        color:black;
        padding: 4px;
        margin-bottom: 10px;
      }
   </style>
</head>
<body>
  <dl>
     <dt>First Name</dt>
     <dd>some name</dd>
     <dt>Last Name</dt>
     <dd>some name</dd>
     <dt>Father Name</dt>
     <dd >some name</dd>
     <dt>Age</dt>
     <dd>some number</dd>
     <dt>Date of Birth</dt>
     <dd>some date</dd>
  </dl>
</body>
</html>
```

-this grid can identify terms as one column and definition as another column.
-it will show you side by side

First Name	some name
Last Name	some name
Father Name	some name
Age	some number
Date of Birth	some date

-it is not necessary that always terms and definition will display one below another.

-they can split into columns because they are internally design like that.

-display is designed for only 2 columns for data list, because all terms can be in one column and all definition can be in another column.

Note: You can make any content sticky to page by using CSS "position" attribute.

Syntax:

```
dt {
 position: sticky;
 top:0px;
 }
```

Ex:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
     .title {
       font-size: 25px;
       font-weight: bold;
     }
     dt {
       background-color: black;
       width: 150px;
       padding: 5px;
       color:white;
       position: sticky;
       top: 0px;
     }
   </style>
</head>
<body>
  <nav>
   <div class="title">Shopper.</div>
   <dl>
     <dt>Electronics</dt>
     <dd>Televisions</dd>
     <dd>Mobiles</dd>
     <dd>Watches</dd>
     <dd>Televisions</dd>
     <dd>Mobiles</dd>
     <dd>Watches</dd>
     <dd>Televisions</dd>
     <dd>Mobiles</dd>
     <dd>Watches</dd>
     <dd>Televisions</dd>
     <dd>Mobiles</dd>
     <dd>Watches</dd>
     <dd>Televisions</dd>
     <dd>Mobiles</dd>
     <dd>Watches</dd>
```

<dd>Televisions</dd>
<dd>Mobiles</dd>
<dd>Watches</dd>
<dd>Televisions</dd>
<dd>Mobiles</dd>
<dd>Watches</dd>
<dd>Televisions</dd>
<dd>Mobiles</dd>
<dd>Watches</dd>
<dd>Televisions</dd>
<dd>Mobiles</dd>
<dd>Watches</dd>
<dt>Footwear</dt>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dd>Casuals</dd>
<dd>Sneakers</dd>
<dd>Boots</dd>
<dt>Fashion</dt>
<dd>Kids</dd>
<dd>Women</dd>
<dd>Men</dd>
<dd>Kids</dd>
<dd>Women</dd>

```
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
      <dd>Kids</dd>
      <dd>Women</dd>
      <dd>Men</dd>
    </dl>
  </nav>
</body>
</html>
```

-you have to keep a lot of contents so that it will be scrollable.

-if you take three or four lines and you will try to make it scrollable in this case, it will not work because you have very few contents.

12. Fieldset and Legend

- Fieldset is a container with frame.
- Legend is a caption set for fieldset.
- Usually, it is used for creating a group of elements in page.

Syntax:

```
<fieldset>
   <legend> Title </legend>
   ...your content...
</fieldset>
```

Note: You can set shadow for any container by using "box-shadow"

```
{
  box-shadow : horizontal  vertical  blur  color;
}
```

horizontal, vertical, blur => defined in pixels.

Ex:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <style>
     dl {
       display: grid;
       grid-template-columns: 3fr 9fr;
     }
     dt {
       background-color: black;
       color:white;
       padding: 4px;
       margin-bottom: 5px;
     }
     dd {
       background-color: lightgray;
       color:black;
       padding: 4px;
       margin-bottom: 5px;
     }
     fieldset {
       margin-bottom: 20px;
       box-shadow: 10px 10px 2px black;
       border-radius: 20px;
       background-image: url("public/images/kids.jpg");
       background-size: cover;
       width: 500px;
     }
     legend {
       text-align: center;
       background-color: black;
       color:white;
       font-weight: bold;
       padding: 4px;
       width: 150px;
       box-shadow: 5px 5px 5px gray;
       border-radius: 20px;
     }
   </style>
</head>
<body>
    <fieldset>
      <legend>Personal Details</legend>
     <dl>
```

```
      <dt>First Name</dt>
      <dd>some name</dd>
      <dt>Last Name</dt>
      <dd>some name</dd>
      <dt>Age</dt>
      <dd>some number</dd>
     </dl>
    </fieldset>
    <fieldset>
     <legend>Contact Details</legend>
     <dl>
      <dt>City</dt>
      <dd>cityname</dd>
      <dt>State</dt>
      <dd>state name</dd>
      <dt>Postal Code</dt>
      <dd>some code</dd>
     </dl>
    </fieldset>
</body>
</html>
```