**HTML Interview Questions with Answers**

1.What is HTML & Explain the layout of HTML?

2.What is the difference between HTML elements ,attributes and tags?

3.What is the difference between a block-level element and an inline element?

4.What are the HTML tags used to display the data in the tabular form?

5.How to create a Hyperlink in HTML?

6.Name some common lists that are used when designing a page.

7.What is semantic HTML?

8.How to create a nested webpage in HTML?

9.What is an image map?

10.What is a marquee?

11.What are the tags used to separate a section of texts

12.What is the difference between DIV and SPAN in HTML?

13.What is the purpose of using alternative texts in images?

14.Is the <!DOCTYPE html> tag considered as a HTML tag?

15.What is the use of an iframe tag?

16.Differences b/w HTML/HTML5

17.List the media types and formats supported by HTML.

18.What is Cell Spacing and Cell Padding?

19.What is difference between HTML and XHTML?

20.What are logical and physical tags in HTML?

21.What are the different new form element types in HTML 5?

22.Which type of video formats are supported by HTML5?

23.What is the difference between progress and meter tag?

24.What is datalist tag?

25.How are tags migrated from HTML4 to HTML5?

26.What is the use of the required attribute in HTML5?

27.How can we include Google maps on a website?

28.What is the SVG element?

29.Explain about Canvas.

30.What is Quirks mode in HTML5?

**1. What is HTML & Explain the layout of HTML?**

* HTML stands for Hyper Text Markup Language which is used for creating web pages and web applications.
* A web page can be of the static or dynamic type.
* With the help of HTML only, we can create static web pages.
* HTML pages are saved by adding .html.
* Html was proposed by Tim in late 1991.
* Tim Berners-Lee is known as the father of HTML

**HTML Versions:-**

**HTML 1.0:** The first version of HTML was 1.0, which was the barebones version of HTML language, and it was released in 1991.

**HTML 2.0:** This was the next version which was released in 1995, and it was standard language version for website design. Was able to support extra features such as form-based file upload, form elements such as text box, option button, etc.

**HTML 3.2:** HTML 3.2 version was published by W3C in early 1997. This version was capable of creating tables and providing support for extra options for form elements. It can also support a web page with complex mathematical equations. It became an official standard for any browser till January 1997. Today it is practically supported by most of the browsers.

**HTML 4.01:** HTML 4.01 version was released on December 1999, and it is a very stable version of HTML language. This version is the current official standard, and it provides added support for style sheets (CSS) and scripting ability for various multimedia elements.

**HTML5:** HTML5 is the newest version of Hypertext Markup language. The first draft of this version was announced in January 2008. There are two major organizations one is W3C (World Wide Web Consortium), and another one is WHATWG( Web Hypertext Application Technology Working Group) which are involved in the development of HTML 5 version, and still, it is under development

**Features of HTML:**

* It is a very easy and simple language. It can be easily understood and modified.
* It is very easy to make an effective presentation with HTML because it has a lot of formatting tags.
* It is a markup language, so it provides a flexible way to design web pages along with the text.
* It facilitates programmers to add a link on the web pages (by html anchor tag), so it enhances the interest of browsing of the user.
* It is platform-independent because it can be displayed on any platform like Windows, Linux, and Macintosh, etc.
* It facilitates the programmer to add Graphics, Videos, and Sound to the web pages which makes it more attractive and interactive.
* HTML is a case-insensitive language, which means we can use tags either in lower-case or upper-case.

**Lay Out Of HTML:-**

HTML layout specifies a way in which the web page is arranged. Every website has a specific layout to display content in a specific manner. Following are different HTML elements which are used to define the different parts of a webpage:

**<html>**

**<head>**

**<title>Page title</title>**

**</head>**

**<body>**

**<h1>This is a heading </h1>**

**<p> This is a Paragraph</p>**

**</body>**

**</html>**

**HTML-Structure-**

<Header>: It is used to define a header for a document or a section.

<Nav>: This defines a container for navigation links

<Section>: It is used to define a section in a document

<Article>: This is used to define an independent, self-contained article

<Aside>: It is used to define content aside from the content

<Footer>: It is used to define a footer for a document or a section

**2. What is the difference between HTML elements, attributes and tags?**

**Tags:**

* HTML tags are used to hold the HTML element.
* HTML tag starts with < and ends with >
* HTML tags are almost like keywords where every single tag has unique meaning.
* <p>This is the content of the paragraph element.</p>
* A start tag with no attributes:
* A start tag with an attribute:
* <p class="info">
* There are also some elements that are empty, meaning that they only consist of a single tag and do not have any content. In HTML, such tags look just like opening tags</p>

**Elements**

* HTML element holds the content.
* Whatever written within a HTML tag are HTML elements.
* HTML elements specifies the general content.

**Attributes**

* HTML attributes are used to describe the characteristic of an HTML element in detail.
* HTML attributes are found only in the starting tag
* HTML attributes specify various additional properties to the existing HTML element.
* A <input> tag has a type attribute, which you can use to specify whether it is a text field, checkbox, radio button

<! -- Text field -->

<input type="text" />

<! -- Checkbox -->

<input type="checkbox" />

<! -- Radio button -->

<input type="radio" value="on" />

**3. What is the difference between a block-level element and an inline element?**

**Block-level Elements**

* 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)
* The <div> element is a block-level element.

**Here are the block-level elements in HTML:**

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**Inline Elements**

* An inline element does not start on a new line and it only takes up as much width as necessary.
* This is a <span> element inside a paragraph.

**Here are the inline elements in HTML:**

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**4. What are the HTML tags used to display the data in the tabular form?**

* The HTML table tag is used to display data in tabular form (row \* column). It also manages the layout of the page, e.g., header section, navigation bar, body content, footer section. Here is the list of tags used while displaying the data in the tabular form

**Tag Description**

* <table> It defines a table.
* <tr> It defines a row in a table.
* <th> It defines a header cell in a table.
* <td> It defines a cell in a table.
* <caption> It defines the table caption.
* <colgroup> It specifies a group of one or more columns in a table for formatting.
* <col> It is used with <colgroup> element to specify column properties for each column.
* <tbody> It is used to group the body content in a table.
* <thead> It is used to group the header content in a table.
* <tfooter> It is used to group the footer content in a table.

**Example:**

<!DOCTYPE>

<html>

<body>

<table border="1">

<tr><th>First\_Name</th><th>Last\_Name</th><th>Marks</th></tr>

<tr><td>Sonoo</td><td>Jaiswal</td><td>60</td></tr>

<tr><td>James</td><td>William</td><td>80</td></tr>

<tr><td>Swati</td><td>Sironi</td><td>82</td></tr>

<tr><td>Chetna</td><td>Singh</td><td>72</td></tr>

</table>

</body>

</html>

**5. How to create a Hyperlink in HTML?**

* HTML links are hyperlinks.
* You can click on a link and jump to another document.
* <a href="https://www.w3schools.com/">Visit W3Schools.com!</a>

**6. Name some common lists that are used when designing a page.**

* There are many common lists which are used to design a page. You can choose any or a combination of the following list types:
* Ordered list
* Unordered list(disc,circle,square,none)
* Menu list
* Directory list
* Definition list

**Ordered HTML List**

* An ordered list starts with the <ol> tag. Each list item starts with the <li> tag.

<ol>

<li>ordered </li>

</ol>

<ol type="A">

<li>Coffee</li>

<li>Tea</li>

</ol>

**Unordered HTML List**

* An unordered list starts with the <ul> tag. Each list item starts with the <li> tag.
* The list items will be marked with bullets (small black circles) by default:

<ul style="list-style-type:disc;">

<li>Coffee</li>

</ul>

**Directory list**

* Not Supported in HTML5.
* The <div> tag was used in HTML 4 to list directory titles.

**Definition and Usage**

* The <dl> tag defines a description list.
* The <dl> tag is used in conjunction with <dt> (defines terms/names) and <dd> (describes each term/name).

<dl>

<dt>Coffee</dt>

<dd>Black hot drink</dd>

<dt>Milk</dt>

<dd>White cold drink</dd>

</dl>

**7. What is semantic HTML?**

Describes its meaning to both the browser and the developer.

**Examples of semantic elements**: <form> , <table> , <figure>,<footer>,

<header>,<article>,<nav>,<figcaption> and <section> - Clearly defines its content

**Examples of non-semantic elements:** <div> and <span> - Tells nothing about its content.

**8. How to create a nested webpage in HTML?**

* We can use **iframe** for nested pages.
* Use "iframe" tag into the "body" section of the document. Use the "src" attribute to specify the address of the second page, embedded page. We can also use CSS to style the iframe.
* The <iframe> use some attributes like src, width, height, etc.

**Example:**

<!DOCTYPE html>

<html>

<head>

<title>iframe Tag</title>

</head>

<body>

<iframe src="https://www.codingtag.com" height="420" width="550"></iframe>

<p>Use the height and width attributes to specify the size of the iframe </p>

</body>

</html>

**9. What is an image map?**

Image Map is used you can create clickable areas on an image

**Example:**

<img src="workplace.jpg" alt="Workplace" usemap="#workmap">

<map name="workmap"> //usemap is default attribute here

<area shape="rect" coords="34,44,270,350" alt="Computer" href="computer.htm">

<area shape="rect" coords="290,172,333,250" alt="Phone" href="phone.htm">

<area shape="circle" coords="337,300,44" alt="Coffee" href="coffee.htm">

</map>

The use map value starts with a hash tag # followed by the name of the image map, and is used to create a relationship between the image and the image map.

**10. What is a marquee?**

Marquee is an animation effect for web pages that are used to create horizontal or vertical scrolling text and images.

**Example:**

<marquee>This text will scroll from right to left</marquee>

<marquee direction="up">This text will scroll from bottom to top</marquee>

<marquee direction="down" width="250" height="200" behavior="alternate" style="border:solid">

<marquee behavior="alternate">

This text will bounce

</marquee>

</marquee>

**11. What are the tags used to separate a section of texts?**

* tags are used to separate the texts.
* <br> tag - Usually <br>
* tag is used to separate the line of text.
* It breaks the current line and conveys the flow to the next line
* <p> tag - The <p>
* tag contains the text in the form of a new paragraph.
* <blockquote> tag - It is used to define a large quoted section. If you have a large quotation, then put the entire text within <blockquote>.............</blockquote> tag.

**12. What is the difference between DIV and SPAN in HTML?**

* Both <div> and <span> is used to define parts of a web page.
* The <span> element shows the inline portion of a document.
* The <div> elements show a block-level portion of a document.
* A div is a block-level element and a span is an inline element.
* The div should be used to wrap sections of a document, while use spans to wrap small portions of 'text', 'images', etc.
* ex:<div>Demo Text, with <span>some other</span> text.</div>

**13. What is the purpose of using alternative texts in images?**

* The required alt attribute specifies an alternate text for an image, if the image cannot be displayed.
* The alt attribute provides alternative information for an image if a user for some reason cannot view it
* (because of slow connection, an error in the src attribute, or if the user uses a screen reader).

**Example:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

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

<title>Document</title>

<style>

</style>

</head>

<body>

<img src=".../golden.jpg" alt="here is a puppy">

</body>

</html>

**14. Is the <! DOCTYPE html> tag considered as a HTML tag?**

* The declaration is not an HTML tag. It is an "information" to the browser about what document type to expect.
* it tells the browser to what type of document it is.
* In HTML 5, the declaration is simple:
* <!DOCTYPE html>
* In older documents (HTML 4 or XHTML), the declaration is more complicated because the declaration must refer to a DTD (Document Type Definition).
* <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN""http://www.w3.org/TR/html4/loose.dtd">
* in xhtml<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "<http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd>">
* Tip: The <!DOCTYPE> declaration is NOT case sensitive.

**15. What is the use of an iframe tag?**

* The <iframe> tag specifies an inline frame.
* An inline frame is used to embed another document within the current HTML document.

**Example:**

<!DOCTYPE html>

<html>

<body>

<h1>The iframe element + CSS</h1>

<p>An iframe with default borders:</p>

<iframe src="/default.asp" width="100%" height="300">

</iframe>

<p>An iframe with a thin black border:</p>

<iframe src="/default.asp" width="100%" height="300" style="border:1px solid black;">

</iframe>

<p>An iframe with no borders:</p>

<iframe src="/default.asp" width="100%" height="300" style="border:none;">

</iframe>

</body>

</html>

**16. Differences b/w HTML/HTML5**

|  |  |  |
| --- | --- | --- |
| Features | Html | Html5 |
| definition | A hypertext markup language (HTML) is the primary language for developing web pages. | HTML5 is a new version of HTML with new functionalities  With markup language with Internet technologies. |
| Multimedia support | Language in HTML does not have support for video and audio. | HTML5 supports both video and audio. |
| Storage | The HTML browser uses cache memory as temporary storage. | HTML5 has the storage options like: application cache,  SQL database, and web storage. |
| Browser compatibility | HTML is compatible with almost all browsers because it has been present for a long time, and the browser made modifications to support all the features. | In HTML5, we have many new tags, elements, and some  tags that have been removed/modified, so only some  Browsers are fully compatible with HTML5. |
| Graphics support | In HTML, vector graphics are possible with tools Like Silver light, Adobe Flash, VML, etc. | In HTML5, vector graphics are supported by default. |
| Threading | In HTML, the browser interface and JavaScript running in the same thread. | The HTML5 has the JavaScript Web Worker API, which  Allows the browser interface to run in multiple threads. |
| Storage | Uses cookies to store data. | Uses local storage instead of cookies |
| Vector and Graphics | Vector graphics are possible with the help of technologies like VML, Silverlight, Flash,etc. | Vector graphics is an integral part of HTML5,  SVG and canvas. |
|  |  |  |
| Shapes | It is not possible to create shapes like circles, rectangles, triangles. | We can draw shapes like circles, rectangles, triangles. |
| Doc type | Doctype declaration in html is too long <! DOCTYPE HTML PUBLIC "- // W3C // DTD HTML 4.01 // EN" "<http://www.w3.org/TR/html4/strict.dtd>"> | The DOCTYPE declaration in html5 is very simple  "<! DOCTYPE html> |
| Character Encoding | Character encoding in HTML is too long. <! DOCTYPE HTML PUBLIC "- // W3C // DTD HTML 4.0 Transitional // EN"> | Character encoding declaration is simple  <meta charset = "UTF-8"> |
| Multimedia support | Audio and video are not the part of HTML4. | Audio and video are essential parts of HTML5,like:   <Audio>, <Video>. |
| Vector Graphics | In HTML4, vector graphics are possible with the help of techniques like VML, Silver light and Flash. | Vector graphics are an integral part of HTML5, SVG,  and canvas. |
|  | Html5 uses cookies. | It supplies local storage in place of cookies. |
| Shapes | It is not possible to draw shapes like circles, rectangles, triangles. | Using html5, you can draw shapes like circles, rectangles,  triangles. |
| Browser Support | Works with all older browsers | A new browser supports this. |

**17. List the media types and formats supported by HTML.**

* Multimedia comes in many different formats. It can be almost anything you can hear or see, like images, music, sound, videos, records, films, animations, and more.
* Web pages often contain multimedia elements of different types and formats.
* Multimedia Formats
* Multimedia elements (like audio or video) are stored in media files.
* The most common way to discover the type of a file, is to look at the file extension

**Video:**

* The HTML <video> element is used to show a video on a web page.
* How it Works
* The controls attribute adds video controls, like play, pause, and volume.
* It is a good idea to always include width and height attributes. If height and width are not set, the page might flicker while the video loads.
* The <source> element allows you to specify alternative video files which the browser may choose from. The browser will use the first recognized format.
* The text between the <video> and </video> tags will only be displayed in browsers that do not support the <video> element

**Example:**

<!DOCTYPE html>

<html>

<body>

<video width="320" height="240" controls>

<source src="movie.mp4" type="video/mp4">

<source src="movie.ogg" type="video/ogg">

Your browser does not support the video tag.

</video>

</body>

</html>

**Audio:**

* The HTML <audio> element is used to play an audio file on a web page.
* HTML Audio - How It Works
* The controls attribute adds audio controls, like play, pause, and volume.

The <source> element allows you to specify alternative audio files which the browser may choose from. The browser will use the first recognized format.

* The text between the <audio> and </audio> tags will only be displayed in browsers that do not support the <audio> element.

Example:

<!DOCTYPE html>

<html>

<body>

<audio controls>

<source src="horse.ogg" type="audio/ogg">

<source src="horse.mp3" type="audio/mpeg">

Your browser does not support the audio element.

</audio>

</body>

</html>

**18. What is Cell Spacing and Cell Padding?**

**Cell padding**:

* Cell padding specifies the space between the border of a table cell and its contents (i.e) it defines the whitespace between the cell edge and the content of the cell.

<table callpadding=”value”>…</table>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">

<title>Example of HTML cellpadding attribute with table</title>

</head>

<body>

<table border="1" cellpadding="10">

<tr>

<td>USA</td>

<td>Washington,D.C.</td>

</tr>

<tr>

<td>UK</td>

<td>London</td>

</tr>

</table>

</body>

</html>

**Cell spacing:**

* Cell spacing specifies the space between cells (i.e.) it defines the whitespace between the edges of the adjacent cells.

<table callspacing=”value”>…</table>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">

<title>Example of HTML cellspacing attribute with table</title>

</head>

<body>

<table border="1" cellspacing="10">

<tr><td>USA</td>

<td>Washington,D.C.</td>

</tr>

<tr>

<td>UK</td>

<td>London</td>

</tr>

</table>

</body>

</html>

**19. What is difference between HTML and XHTML?**

* XHTML stands for Extensible Hypertext Markup Language
* XHTML is a stricter, more XML-based version of HTML
* XHTML is HTML defined as an XML application
* XHTML is supported by all major browsers

**Why XHTML?**

* XML is a markup language where all documents must be marked up correctly ").
* XHTML was developed to make HTML more extensible and flexible
* to work with other data formats (such as XML). In addition, browsers
* ignore errors in HTML pages, and try to display the website
* even if it has some errors in the markup. So XHTML comes with a much stricter error handling.

**HTML**

* HTML stands for Hyper Text Markup Language
* HTML is the standardmarkup language for Web pages
* HTML elements are the building blocks of HTML pages
* HTML elements are represented by **<>** tags

**20. What are logical and physical tags in HTML?**

**Logical tags**

|  |  |  |
| --- | --- | --- |
| HTML | Example | Example |
| <strong> | Strong | Usually bold |
| <em> | Emphasized | Usually italics |
| <cite> | Cite | For short quotes. Often italics |
| <var> | var | Programming variables, in italics |
| <code> | Code | Usually a Courier or other moonscape font |
| <kbd> | KBD | Usually a Courier or other moonscapes font |

if you any doubts use this urlhttp://faculty.madisoncollege.edu/schmidt/webdev/webdev/p1ex5.html

**21. What are the different new form element types in HTML 5?**

In html 5 introduced new form elements are

**Datalist:**

We can use the <datalist> element if you want to provide suggestions for the input,

and at the same time allow user to enter inputs on his own.it provides auto complete feature firstly we have know the difference between <select> and <datalist>

<select> element does not restricts the user to select an input from the provided list.

<Datalist> allows the user to select an input from the provided list or enter the input as he wants.

<!DOCTYPE html>

<html>

<head>

<title>Datalist Example</title>

</head>

<body>

DataList:

<input list="currencies" >

<datalist id="currencies">

<option value="United States Dollar">

<option value="Euro">

<option value="Japanese Yen">

<option value="Indian Rupee">

<option value="United Arab Emirates Dirham">

<option value="Philippine Peso">

</datalist><br>

**Select:**

<select>

<option value="United States Dollar">

<option value="Euro">euro</option>

<option value="Japanese Yen">Japanese</option>

<option value="Indian Rupee">indian</option>

<option value="United Arab Emirates Dirham">united arab</option>

<option value="Philippine Peso">Phillippine</option>

</select>

</body>

</html>

You have to use an <input> element and a <datalist> element together to implement data list.

The value of the list attribute of the <input> element and the id attribute of the datalist element should be the same to bind them together.

**Keygen:**

The keygen element creates a public key/ private key pair.

private key is encrypted and stored in the local database and public key is genarated in the server.

<!DOCTYPE html>

<html>

<head>

<title>Datalist Example</title>

</head>

<body>

<form>

username: <input type="text name="username>

Encryption: <Keygen name="security">

<input type="submit">

</form>

</body>

</html>

**Meter:**

The meter element represents a sclar measurement within a known range or a fictional value

ex: disk usage the relevance of query result

<!DOCTYPE html>

<html>

<head>

<title>Datalist Example</title>

</head>

<body>

<form>

<meter min="0" max="100" value="55"/>55 out of 100</meter>

<meter value="0.5" title='percentage'/>0.5 percentage</meter>

<p><meter>Your scrore is:<meter value="39" min="0" max="100" low="40">d grade</meter></p>

</form>

</body>

</html>

**22. Which type of video formats are supported by HTML5?**

* The HTML <video> element is used to show a video on a web page.
* To show a video in HTML, use the <video> element

<html>

<body>

<video width="320" height="240" controls>

<source src="movie.mp4" type="video/mp4">

<source src="movie.ogg" type="video/ogg">

Your browser does not support the video tag.

</video>

</body>

</html>

File Format Media Type

MP4 video/mp4

WebM video/webm

Ogg video/ogg

**23. What is the difference between progress and meter tag?**

**Meter tag :**

<html>

<body>

<h1>The meter element</h1>

The <meter> tag defines a scalar measurement within a known range, or a fractional value. This is also known as a gauge.Examples: Disk usage, the relevance of a query result, etc.

<label for="disk\_c">Disk usage C:</label>

<meter id="disk\_c" value="2" min="0" max="10">2 out of 10</meter><br>

<label for="disk\_d">Disk usage D:</label>

<meter id="disk\_d" value="0.6">60%</meter>

</body>

</html>

**Progress Bar:**

The <progress> tag represents the completion progress of a task.

<!DOCTYPE html>

<html>

<body>

<h1>The progress element</h1>

<label for="file">Downloading progress:</label>

<progress id="file" value="32" max="100"> 32% </progress>

</body>

</html>

**24**. **What is data list tag?**

* The <datalist> tag specifies a list of pre-defined options for an <input> element.
* The <datalist> tag is used to provide an "autocomplete" feature for <input> elements.
* Users will see a drop-down list of pre-defined options as they input data.

<!DOCTYPE html>

<html>

<body>

<h1>The datalist element</h1>

<form action="/action\_page.php" method="get">

<label for="browser">Choose your browser from the list:</label>

<input list="browsers" name="browser" id="browser">

<datalist id="browsers">

<option value="Edge">

<option value="Firefox">

<option value="Chrome">

<option value="Opera">

<option value="Safari">

</datalist>

<input type="submit">

</form>

</body>

</html>

**25. How are tags migrated from HTML4 to HTML5?**

* Here, we'll see how we can migrate from HTML4 to HTML5. Let's learn it step by step.
* In HTML4, we used id and class attributes which are now replaced with new elements in HTML5:

<div id="header"> - <header>

<div id="menu"> - <nav>

<div id="content"> - <section>

<div class="article"> - <article>

<div id="footer"> - <footer>

The steps described below can also be taken for migrating from XHTML to HTML5.

**Step 1: Changing the Doctype**

We change the HTML4 doctype to HTML5 doctype.

**HTML4**

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "<http://www.w3.org/TR/html4/loose.dtd>">

**HTML5**

<!DOCTYPE html>

**Step 2: Changing the Encoding**

Here, we change the HTML4 encoding information to HTML5 encoding.

**HTML4**

<meta http-equiv="Content-Type" content="text/html;charset=utf-8">

**HTML5**

<meta charset="utf-8">

**Step 3: Adding the HTML5Shiv**

All modern browsers support the new HTML5 semantic elements. Moreover, you can "teach" older browsers handling "unknown elements". The HTML5Shiv is used to enable styling of HTML5 elements in such browsers.

<!--[if lt IE 9]>

<script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script>

<![endif]-->

**Step 4: Changing to HTML5 Semantic Elements**

Fisrt, see an example where HTML4 semantic elements are used.

**Migration from HTML4 to HTML5**

Typical HTML4 Typical HTML5

<div id="menu"> <nav>

<div id="content"> <section>

<div id="post"> <article>

<div id="footer"> <footer>

**26. What is the use of the required attribute in HTML5?**

* It is a Boolean attribute which is used to specify that the input element must be filled out before submitting the Form.

**Elements**: This attributes can be associated with three elements which are listed below:

<input>

<select>

<textarea>

<input>: The required attributes can be use in <input> elements.

**Syntax**:<input required>

**Example:**

<!DOCTYPE html>

<html>

<head>

<title>required Attribute</title>

<style>

h1, h2 {

color:green;

font-style:italic;

}

body {

text-align:center;

}

</style>

</head>

<body>

<h1>GeeksForGeeks</h1>

<h2>required attribute in input Field</h2>

<form action="">

Username:

<input type="text" name="usrname" required>

<br>

Password:

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

<br>

<input type="submit">

</form>

</body>

</html>

Output:<select>: This elements can also use required attributes.

**27. How can we include Google maps on a website?**

* An HTML iframe is used to display a web page within a web page.
* The src attribute is used to specify the URL of the document that occupies the inline frame.

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width">

<title>JS Bin</title>

</head>

<body>

<h1>Google Maps</h1>

<iframe src="https://www.google.com/maps/embed?pb=!1m14!1m12!1m3!1d15226.229441046878!2d78.37284494999999!3d17.43301755!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!5e0!3m2!1sen!2sin!4v1603174324513!5m2!1sen!2sin" width="600" height="450" frameborder="0" style="border:0;" allowfullscreen=""

aria-hidden="false" tabindex="0"></iframe>

</body>

</html>

**28. What is the SVG element?**

SVG stands for Scalable Vector Graphics. It is used to define graphics for the Web. Every element and every attribute in SVG files can be animated.

**The HTML <svg> Element:**

* The HTML <svg> element is a container for SVG graphics.
* SVG has several methods for drawing paths, boxes, circles, text, and graphic images.
* SVG is XML based, which means that every element is available within the SVG DOM. You can attach JavaScript event handlers for an element.
* In SVG, each drawn shape is remembered as an object. If attributes of an SVG object are changed, the browser can automatically re-render the shape.
* SVG can be modified through script and CSS. Each drawn shape in SVG is remembered as an object. If attributes of an SVG object are changed, the browser can automatically re-render the shape.

**Example:**

<!DOCTYPE html>

<html>

<body>

<svg width="100" height="100">

<circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />

</svg>

</body>

</html>

**Output:**



**29.Explain about Canvas.**

* The HTML <canvas> element is used to draw graphics on a web page.
* The HTML <canvas> element is used to draw graphics, via JavaScript.
* The <canvas> element is only a container for graphics. You must use JavaScript to actually draw the graphics.
* Canvas has several methods for drawing paths, boxes, circles, text, and adding images.

**Examples:**

* A canvas is a rectangular area on an HTML page. By default, a canvas has no border and no content.
* Canvas can be modified through script only. In canvas, once the graphic is drawn, it is forgotten by the browser. If its position should be changed, the entire scene needs to be redrawn, including any objects that might have been covered by the graphic.

The markup looks like this:

<canvas id="myCanvas" width="200" height="100" style="border:1px solid #000000;"></canvas>

**Note:** Always specify an id attribute (to be referred to in a script), and a width and height attribute to define the size of the canvas. To add a border, use the style attribute.

Here is an example of a basic, empty canvas:



**30. What is Quirks mode in HTML5?**

* Quirks mode refers to a technique used by some web browsers for the sake of maintaining compatibility with web pages designed for Internet Explorer 5 and earlier versions. Nowadays all the modern browsers are fully implemented in full standards mode by default after with the support of HTML5.
* Quirks mode is not, however, a standard. The rendering of any page in quirks mode in different browsers may be different. Generally, quirks mode is turned on when there is no correct DOCTYPE declaration, and turned off when there is a DOCTYPE definition.
* The Document.compatMode property indicates whether the document is rendered in Quirks mode or Standards mode.

**How do browsers determine which mode to use:**

* For HTML documents, browsers use a DOCTYPE in the beginning of the document to decide whether to handle it in quirks mode or standards mode. To ensure that your page uses full standards mode, make sure that your page has a DOCTYPE like in this example:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset=UTF-8>

<title>Hello World!</title>

</head>

<body>

</body>

</html>

Console: document.compatMode;

"CSS1Compat" i.e., standards mode.