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> Dear Readers, Welcome to **HTML5 Interview questions** with answers and explanation. These 26 solved **HTML5 questions** will help you prepare for technical interviews and online selection tests conducted during campus placement for freshers and job interviews for professionals.
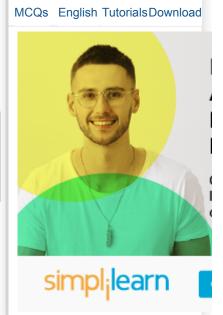>
> After reading these **tricky HTML5 questions**, you can easily attempt the objective type and multiple choice type questions on this topic.

What are the new features provided in HTML5?

Some of the new features provided in HTML5 are:

1. It provides support for local storage
2. New form controls, like calendar, date, time, email, url, search
3. <canvas> element is provided to facilitate 2D drawing
4. The <video> and <audio> elements are provided for media playback
5. New content-specific elements are provided. **For e.g.** <article>, <header>, <footer>, <nav>, <section>

Tell us something about the new <canvas> element.

What are the various elements provided by HTML5 for media content?

<audio> and <video> elements are provided by HTML5 for media playback.

The tags used are:

1) **<audio> -** It defines sound content.

2) **<video> -** It defines a video or a movie.

3) **<source> -** This tag defines the multiple media resources for <video> and <audio>.

4) **<embed> -** It provides a container for an external application or interactive content.

5) **<track> -** It defines text tracks for <video> and <audio>.

What are the new Form elements made available in HTML5?

The new Form elements in HTML5 provide for a better functionality. The tags provided to carry out these functions are:

1) **<datalist> -** It specifies a list of options for input controls. These options are pre-defined.

2) **<keygen> -** This tag defines a key-pair generator field.

3) **<output> -** It defines the result of a calculation.

What are the various tags provided for better structuring in HTML5?

The various tags provided for better structuring in HTML 5 are:

1) **<article> -** This tag defines an article.

2) **<aside> -** It defines content other than the page content.

or hidden by the user.

6) <dialog> - It defines a dialog box.

7) <figure> - This tag specifies content like illustrations, diagrams, photos, code listings, etc.

8) <figcaption> - It is used to provide a caption for a <figure> element

9) <footer> - This tag defines a footer for a document or section

10) <header> - This tag is used to define a header for a document or section

11) <hgroup> - When there are multiple levels in a heading, it groups a set of <h1> to <h6> elements.

What are the another tags provided for better structuring in HTML5?

1) <mark> - It defines highlighted text.

2) <meter> - It defines a scalar measurement within a known range.

3) <nav> - It defines links for navigation.

4) <progress> - This tag exhibits the progress of a task.

5) <ruby> - It defines a ruby annotation for East Asian typography.

6) <rt> - It defines an explanation/pronunciation of characters for East Asian typography.

7) <rp> - This tag tells the system what to display in browsers that do not support ruby annotations.

8) <section> - It defines a section in a document.

9) <summary> - It provides a visible heading for a <details> element.

10) <time> - This tag defines a date/time.

11) <wbr> - This tag defines a line-break.

<acronym>
<applet>
<basefont>
<big>
<center>
<dir>
<font>
<frame>
<frameset>
<noframes>
<strike>
<tt>

What is SVG?

1. SVG is the abbreviation for Scalable Vector Graphics and is recommended by W3C.
2. It is used to define vector-based graphics for the Web.
3. The graphics are defined in XML format.
4. An important quality of SVG graphics is that their quality is maintained even when they are zoomed or resized.
5. All the element and attributes of SVG files can be animated.

What are the advantages of SVG over other image format like JPEG or GIF?

Following are the main advantages of using SVG over other image formats:

- It is possible to scale the SVG images.
- They can be created and edited with any text editor.
- The print quality of these image is high at any resolution.
- It is possible to zoom the SVG images without any degradation in the quality.

Canvas and SVG:

- Canvas is resolution dependent while SVG is not.
- Canvas does not provide any support for event handlers while SVG does.
- Canvas is suitable for graphic-intensive games while SVG is not suitable for gaming.
- Canvas is suitable for small rendering areas while SVG is suitable for large rendering areas like Google maps.

What is a Canvas? What is the default border size of a canvas?

- Canvas is a rectangular area on a HTML page, specified with the tag <canvas>.
- By default, a canvas has no border. To get a border on the canvas, a style attribute is required to be used.

Which methods are used to draw a straight line on a Canvas?

Following methods are used to draw a straight line on a Canvas:

1. **moveTo(x,y) –** It defines the starting co-ordinates of the line.
2. **lineTo(x,y) –** It defines the ending co-ordinates of the line.
3. The actual line is drawn with the help of a method like **stroke()**

What are gradients in Canvas used for? What are their different types?

gradient

2. createRadialGradient(x,y,r,x1,y1,r1) – It creates a radial/circular gradient

Which method is used to draw an image on the canvas?

drawImage(image,x,y) method is used to draw an image on the canvas.

HTML5 provides drag and drop facility. How do you make an image draggable?

To make an image draggable, the draggable attribute is set to true:

```
<img draggable="true">
```

Can HTML5 get the geographical position of a user?

- Yes, HTML5 can get the location of a user with the use of Geolocation API.
- Use **getCurrentPosition()** method to get the user's current position.

What are the audio tags provided by HTML5?

HTML5 provides following audio tags:

<audio> - Defines sound content
<source> - Defines multiple media resources for media elements, such as <video> and <audio>

1. color – Used for fields that should contain colour.

2. date – Allows the user to select a date.

3. datetime - Allows the user to select a date and time (with time zone).

4. datetime-local - Allows the user to select a date and time (without time zone).

5. email - Used for input fields that should contain an e-mail address.

6. month - Allows the user to select a month and year.

7. number - Used for input fields that should contain a numeric value. Restrictions on type of numbers accepted can be set.

8. range - Used for input fields that should contain a value from a range of numbers. Restrictions on type of numbers accepted can be set here as well.

9. search - Used for search fields.

10. tel - Defines a field for entering a telephone number.

11. time - Allows the user to select a time.

12. url - Used for input fields that should contain a URL address.

13. week - Allows the user to select a week and year.

What is HTML5 Web Storage?

With HTML5, it is possible for the web pages to store the data locally in the user's browser. This web storage is much faster and secured than the cookies. Also, a larger amount of data can be stored without causing any adverse effect to the performance of the website.

The data here is not included with every server request. It is used ONLY when it is asked for. It is only that particular web page that can access the data stored by itself.

session.

- With **localStorage object,** data will not be deleted when the browser window is closed while the data is deleted when the browser window closes with **sessionStorage objects.**

What is the concept of Application Cache in HTML5? What are its advantages?

The Application Cache concept introduced by HTML5 means that a web application is cached, and accessible without an internet connection.

There are three advantages of Application Cache:

1. Offline browsing - Users can use the application when they're offline
2. Speed - Cached resources load faster
3. Reduced server load - The browser will only download updated/changed resources from the server

What is a Manifest file?

A Manifest file is a simple text file that tells the browser what to cache and what not to cache.

There are three sections of a Manifest file:

1) **CACHE MANIFEST -** Files listed here are cached after they are downloaded for the first time.
2) **NETWORK -** Files listed here require a connection to the server, and are never cached.
3) **FALLBACK -** Files listed here specify fallback pages if a page is inaccessible.

What is a Web Worker?

Which JavaScript objects are not accessible to web worker?

Following JavaScript objects are not accessible to web worker:

1. The window object
2. The document object
3. The parent object

What are the new attributes provided in HTML5 for <form>?

The new attributes provided in HTML5 for <form> are:

1) autocomplete
– It specifies if a form or input field should have autocomplete as on or off.
– If autocomplete is on, the browser is able to fill the values based on the values filled by the user earlier.
– autocomplete works for following input types: text, search, url, tel, email, password, datepickers, range, and color.

2) novalidate
- This is a boolean attribute.
- When present, it signifies that the form-data should not be validated when submitted.

What are the new attributes provided in HTML5 for <input>?

Following are the new attributes provided in HTML5 for <input>

2) form:

- This attribute specifies one or more forms an <input>
element belongs to.

3) formaction:

- This attribute specifies the URL of a file that will process
the input control when the form is submitted.
- This attribute is used with type="submit" and type="image".
- It overrides the action attribute of the <form> element.

4) formenctype:

- This attribute specifies how the form-data should be
encoded when submitting it to the server.
- It is used with type="submit" and type="image".
- It overrides the enctype attribute of the <form> element.

5) formmethod:

- It defines the HTTP method for sending form-data to the
action URL.
- It is used with type="submit" and type="image".
- It overrides the method attribute of the <form> element.

6) formnovalidate:

- It is a boolean attribute.
- It specifies that the <input> element should not be
validated when submitted.
- It is used with type="submit".
- It overrides the novalidate attribute of the <form> element.

7) formtarget:

- It specifies a name or a keyword that indicates where to
display the response that is received after submitting the
form.
- It is used with type="submit" and type="image".

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9) list:
- It refers to a <datalist> element which contains pre-defined options for an <input> element.

10) min and max:
- It specifies the minimum and maximum value for an <input> element.
- It works with the following input types: number, range, date, datetime, datetime-local, month, time and week.

11) Multiple:
- It is a boolean attribute.
- It specifies that the user is allowed to enter more than one value in the <input> element.
- It works with the following input types: email and file.

12) pattern:
- It specifies a regular expression that the <input> element's value is checked against.
- It works with the following input types: text, search, url, tel, email, and password.

13) placeholder:
- It specifies a short hint that describes the expected value of an input field.
- It works with the following input types: text, search, url, tel, email, and password.

14) required:
- It is a boolean attribute.
- It specifies that an input field must be filled out before submitting the form.

15) step:

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AJAX and problem it solve

Ajax: It is a short for Asynchronous JavaScript and XML. It solves the problem of unnecessary data transfers and allows asynchronous processing and avoids unnecessary processing to be done by server.

What are the benefits of AJAX over Java applet?

What are the benefits of AJAX over Java applet? - The following are the benefits of AJAX over Java applet:

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