

## What is HTML 5?

HTML 5 is a new standard for HTML whose main aim is to deliver application without need of any additional plugins like flash, Silverlight etc. It has many thing from animations to videos, rich GUI etc..

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## What is the difference between HTML and HTML5 ?

HTML5 is just an upgraded version of HTML, HTML5 come with more innovative features such as Canvas, 2D/3D Graphics, Video, Audio , new elements, new attributes and many APIs which reduces the dependability on external plugin like Flash player or other library elements.

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## What if we forget to mention `<!DOCTYPE html>` to our html Document?

It is an instruction to the web browser about what version of HTML the page is written in.

If we forget to declared doctype then many new features & tags in HTML5 such as `<article>`, `<footer>`, `<header>` may not be supported .

Additionally, the browser may go automatically into Quirks or Strict Mode.

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## Can a web page contain multiple `<header>` elements or multiple `<footer>` elements?

Yes we can use multiple header and multiple footer elements in our web page. Infact both tags are designer to serve their purpose, If we need a header and footer in our `<section>` element we can, in the same way if we need it in other elements like `<article>`, `<aside>`, `<main>` we can place it

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## What is a tag?

In HTML, a tag tells the browser what to do. When you write an HTML page, you enter tags for many reasons to change the appearance of text, to show a graphic, or to make a link to another page.

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## What are new HTML 5 APIs

The most interesting HTML 5 APIs are

- HTML Drag & Drop
  - HTML5 Web-Storage
  - HTML5 Server Sent Event
  - HTML5 MicroData
  - HTML5 Web-SQL
  - HTML5 Web-Socket
  - HTML5 GeoLocation
  - HTML5 Web-Workers
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## Can you create new Html element? How?

Yes we can create a new element to our HTML document with

javascript<script>document.createElement("myElement")</script> and can be used like

<myElement>hello</myElement>

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## What are Semantic Elements?

Semantic elements are meaningful element like <body> , <form> <table>

Non-Semantic elements are element without meaning like <div> , <span>

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## What is the Difference between block Element and Inline Element ?

Block Element Always starts with a new line and leave some margin and padding examples are <h1>, <p>

Inline Element Always starts with the same line leave no margin and padding examples are <img> <hr>

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## What are Semantic block element?

Semantic block elements are meaningful elements which always starts with a new line and leave some margin on both side, the example of HTML 5 semantic block elements are<header>, <footer>, <nav>, <section>, <figure>, <article>, <main>, <aside>

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## What are new HTML 5 <form> elements?

New HTML 5 <form> elements are

- <datalist>
- <keygen>
- <output>

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## What is canvas?

The HTML 5 <canvas> element is just a container for canvas graphics. It is a rectangular area on an HTML page.Canvas has methods for drawing boxes,paths,text , circles, and graphic images.

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## What is SVG?

SVG stands for Scalable Vector Graphics. The HTML 5 <svg> element is a container for SVG graphics.It has several methods for drawing boxes,paths,text , circles, and graphic images.

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## What is the difference between canvas and SVG?

Canvas is used to draws 2D graphics, on the fly with JavaScript while SVG is a language for designing 2D graphics in XML.

Canvas is resolution dependent while SVG is resolution independent.

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## Can a <section> element contain <article> element and <article> element contain <section> element ?

The answer is YES you can put a <section> element within an <article> and <article> element within a <section> element.

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## Can a webpage contain multiple <header> element ?

Yes all block elements can have a <header> and a <footer> element

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## Describe the uses of <header> element?

The <header> element is used to describe a heading and navigational information about a section of the page. This can include the section heading, the author's name, time and date of publication, table of contents

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## Describe the uses of <section> element?

the <section> element is appropriate only if the element's contents would be listed explicitly in the document's outline.

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## Describe some new features of HTML 5 ?

### Describe the uses of <article> element?

The <article> element describe a block of self-contained content that can logically be independently recreated outside of the page without losing it's meaning. examples are blog posts or news stories.

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## Describe the uses of <footer> element?

The <footer> element described information that should appear at the end of a section of content and contain information about the section. Author's name, copyright information, and related links.

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## Is <figcaption> a block level element?

No, <figcaption> is not a block level element but <figure> is a block element

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## What is session storage ?

With HTML 5 session storage Web applications can store data locally within the user's browser. It is similar to local storage except that it stores the data only for one session. The data is deleted when the user closes the browser window.

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## What is local storage ?

With HTML 5 local storage Web applications can store data locally within the user's browser. Earlier it was done by cookies, Local storage is more secure, and large amounts of data can be stored locally, without affecting website performance.

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## Which method is used to get user's position?

**getCurrentPosition()** method is used to get the user's position.

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## How Web Workers Work?

Web Workers are initialized with the URL of a JavaScript file, which contains the code of the worker. This code sets event listeners and communicates with the script that invoke it from the main page.

basic syntax is: **var worker = new Worker('background-prog.js');**

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## Describe Server Sent Event ?

Server Sent Event allows our webpages to get automatically updated from the server.

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## Describe Web-Socket?

Web Sockets is used as bidirectional communication technology for web applications. It operates over a single socket via a javascript interface.

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## What is geolocation ?

The HTML Geolocation API is used to locate the geographical position of a user. It needs user permission to ensure user privacy.

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## What is the use of geolocation ?

To locate the exact user position

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## What is single page application SPA ?

A single-page application (SPA), also known as single-page interface (SPI), It is a web application or web site that fits on a single web page with the goal of providing a more fluid user experience skin to a desktop application

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## How can we play video using HTML 5 ?

We can play video with <video> element, HTML 5 has introduced new <video> element to play video files

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## What do you mean by browser compatibility?

Browser compatibility means our code should be compatible with different browsers, and different versions of individual browsers

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## What are the major browsers?

The major browsers are:

1. Internet Exploree
  2. Mozilla Firefox
  3. Opera
  4. safari
  5. Chrome
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## What is Multimedia?

Multimedia comes in many different formats, like Pictures, music, sound, videos, records, films, animations, and more. Web pages often contains multimedia elements of different types and formats.

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## What is datalist in HTML 5?

Comments are used to make our code more readable, Comments are always ignored by the browsers. It is a good practice to insert comments in our complex and lengthy code

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## What is feature detection?

Feature detection detect wheather some new feature of HTML 5 is running on the given browsers or not?

Feature detection can done by two ways:

1. Using modernizr.js
2. Using Simple JavaScript

```
if(typeof(Storage) !== "undefined") {  
  Code for localStorage/sessionStorage.  
} else {  
  Sorry No Browser support for Storage }
```

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## What is modernizr?

Modernizr is an open source, MIT-licensed JavaScript library that detects support for many HTML5 & CSS3 new features. You should always use the latest version. It runs automatically

```
<script src="modernizr.min.js"></script>  
if (Modernizr.canvas) {  
  // let's draw some wonderful shapes!  
} else {  
  // no browser support for canvas available  
}
```

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## What is the difference between Session Storage and Local Storage

The sessionStorage is similar to the localStorage, except that it stores the data only for one session. The data is deleted when the user closes the browser window. Where as in local storage the data is stored permanently in the browsers

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## Do all HTML tags comes in pair?

No few tags not comes is pair and are called as self closing tag like `<hr>`, `<br>`, `<input>`, `<link>`, `<img>`, etc

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