


Web Basics – HTML5

Lesson 7. Frames

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- 1 -

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Lesson Objectives

➤ **After completing this module you will be able to:**

- Understand the need for frames in web pages.
- Learn to create and work with iframes.



7.1 Introduction to FRAME

- With frames, more than one HTML document content can be nested in a web page.
- Need for frames in webpage:
 - Reusability
 - Static navigation can be visible all the time
 - Design issues can be resolved.
 - Advertisement can be displayed which promotes web site

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Iframe:

- Inline Frame Element (<iframe>) is used to embed another HTML page into the current page.
- <iframe> can be used within a HTML document body.
- A section that contains embedded content is called the parent context. For an example, if <iframe> is used as a nested tag in <body>, then body is the parent context and browser window is the top level parent context.

Frames: With frames, you can display more than one HTML documents in the same browser window. Each HTML document is called a frame, and each frame is independent of the others.

Disadvantage of using frames is that the web developer must keep track of more HTML documents. Also, it is difficult to print the entire page.

7.2 Introduction to IFRAME

- Inline Frame Element (<iframe>) is used to embed another HTML page into the current page.
- <iframe> can be used within a HTML document body just like an tag.
- Syntax:

```
<iframe src="url"></iframe>
```

- Types of documents which can be embedded using IFRAME are
 - Image(GIF, JPEG, etc..)
 - PDF
 - Audio
 - Video
 - HTML document, etc..

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- *Inline Frame Element (<iframe>)* is used to embed another HTML page into the current page.
- <iframe> can be used within a HTML document body just like an tag.
- A section that contains embedded content is called the parent context.
- Types of documents which can be embed using IFRAME are
 - Image(GIF, JPEG, etc..)
 - PDF
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 - HTML document, etc..
- Advantages of using IFRAME
 - Common content like header, footer, .. For multiple pages can be described using IFRAME
 - By displaying advertisement, web page can be promoted easily.

7.2 Introduction to IFRAME

IFRAME Tag Attributes

Attribute Name	Attribute Value	Description
name	Name of the frame	Mentions the name of iframe.
height	pixels	Denotes the height level of iframe.
width	pixels	Denotes the width level of iframe.
src	URL of the file	The address/URL of the content to be fixed in iframe.
sandbox	"" , allow-forms, allow-same-origin, allow-scripts, allow-top-navigation	Creates limitations for iframe contents.
seamless	seamless	Defines that iframe should look like the part of the containing document.
srcdoc	HTML code	The HTML content of a page to be shown in iframe.

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Frame :

<frame> tag defines which HTML document to put into each frame.

If a frame has visible borders, the user can resize it by dragging the border. To prevent a user from doing this, you can add noresize="noresize" to the <frame> tag.

Second tag used to create frames is the <FRAME> tag. It defines a frame within a frameset and has six possible attributes. <FRAME> tag syntax is:

```
<frame src="url" name="window_name" marginwidth="value"
marginheight="value"
scrolling="yes/no/auto" {noresize}>
```

SRC is the URL of the source document to be displayed in this frame.

NAME is an optional attribute that assigns a name to a frame so that it can be used by links in other documents or by JavaScripts.

MARGINWIDTH is an optional attributes used to set the width of the margins of the frame. The value is in pixels.

7.2 Introduction to IFRAME

Example


```
<!DOCTYPE html>
<html>
<body>

  <iframe src="HTML5.pdf" width="600" height="400">
    <p>Your browser does not support iframes.</p>
  </iframe>

  <p>Inline Frame Element is used to embed another HTML page
  into the current page. can be used within a HTML document body just
  like an tag. A section that contains embedded content is called the
  parent context.</p>

</body>
</html>
```

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Demo

- iframesDemo1.html
- iframesDemo2.html



December 20, 2015 Proprietary and Confidential - 7 -




```

<HTML>
<HEAD><TITLE>Frames</TITLE></HEAD>
<!--Dividing the Web document into three parts using frameset
First frameset divides the browser horizontally into two parts
First half contain the Top. Html page
Second half again gets divided vertically into two parts 'A' Part
showing the 'left.htm' page and 'B' part further get divided horizontally
into two parts x part showing the 'main.htm' and y part showing 'blank' -->
<FRAMESET rows=10%,*>
    <FRAME border=0 name=top src="top.htm" noResize
    scrolling=no>
    <FRAMESET cols=20%,*>
        <FRAME name=left src="left.htm">
    <FRAMESET rows=70%,*>
        <FRAME      name=main src="main.htm">
        <FRAME name=details src="about:blank">
    </FRAMESET>
</FRAMESET>
</FRAMESET>
</FRAMESET>
</HTML>
    
```

Lab


➤ Lab 7



December 20, 2015

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- 8 -


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Lesson Summary

➤ **In this lesson, you have learnt about**

- Need of frames in webpages
- Embedding of content in HTML document using <iframe> tag.



Review – Match the Following

1. SRC	a. Sets the height of the frame.
2. NAME	b. Sets the width of the frame.
3. WIDTH	c. Creates limitations for iframe contents.
4. HEIGHT	d. Assigns a name to a frame.
5. SANDBOX	e. Source document's URL is displayed in this frame.

