

Frame Functions

- FRAMES allow a Web Browser to display multiple html documents simultaneously
- Browser client area is split up into 2D sections either vertically or horizontally
- Browser has to update only changed document in frame.

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Frame Cautions - 1

- Older browsers may not support frames
- Borderless Frames are supported by IE v3 and Higher and Navigator v4 and higher
- Some people don't like frames and turn this feature off in browser
- Some Graphical HTML Layout Tools do not adequately support frames

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Frame Cautions - 2

- Can not bookmark or save URL as favorite. Frames are not *addressable*. Only the initial frameset can be bookmarked or linked to.
- Avoid the Frame Trap. *Always* make certain all outgoing links remove your frameset
- DO NOT over do frame usage
- Always provide a Non-Frames option

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HTML Frame Document



Frame Set Tags - 1

- Frames require the use of a separate frame layout description file called the Frame Set
- The Syntax for the frame set html file:

```
<HTML>
<HEAD>
  <TITLE>Photo Album</TITLE>
</HEAD>
<FRAMESET > </FRAMESET>
<NOFRAMES> <BODY>
</BODY> </NOFRAMES>
</HTML>
```

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Frame Set Tags - 2

- The Frame Set Tag describes the physical layout of a frame:

```
<FRAMESET ROWS="40,*">
  40 Row height in pixels
  80% height as percent
  * Frame gets remaining space
  2* Frame gets two thirds of remaining space
<FRAMESET COLS="140,*">
  140 Column width in pixels
  30% Column width as percent
  * Frame gets remaining space
  2* Frame gets two thirds of remaining space
```

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Frame Set Tags - 3

- The Frame Tag describes the physical layout of a document pane:

```
<FRAME SRC="filename.html" NAME="FrameID">
```

Attributes:

SRC html Document to fill frame
NAME to be used for frame identification
SCROLLING=YES/NO/AUTO
 Include scrollbar for frame. Auto is default
NORESIZE Disable ability to resize window

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Frame Set Tags - 4

```
<FRAME SRC="filename.html" NAME="FrameID">
```

Attributes (Continued):

MARGINWIDTH = n Left and right margins in pixels
MARGINHEIGHT = n Top and bottom margins
FRAMEBORDER = n The width of frame border
 Setting to 0 will create a borderless frame
Note: You will not be able to resize frame if the border is removed.

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HTML Frame Document



Frame Set Example

```
<HTML>
<HEAD>
  <META NAME="Generator" CONTENT="Coded by Hand">
  <META NAME="Author" CONTENT="Bob Laurie">
  <META NAME="Keywords" CONTENT="Photo, Album, Lake Superior, Australia, Europe, California">
  <TITLE>Photo Album</TITLE>
</HEAD>
<FRAMESET ROWS="40,*">
  <FRAME SRC="AlbumCaption.html"
    NAME="AlbumCaption" MARGINWIDTH=10
    MARGINHEIGHT=5 SCROLLING=NO NORESIZE>
```

```
<FRAMESET COLS="140,*">
  <FRAME SRC="AlbumMenu.html" NAME="AlbumMenu"
    MARGINWIDTH=8 MARGINHEIGHT=10 NORESIZE>
  <FRAME SRC="Superior/Superior.htm"
    NAME="AlbumMain" MARGINWIDTH=10
    MARGINHEIGHT=5>
</FRAMESET>
<NOFRAMES>
<BODY>
  Viewing this page requires a browser capable of
  displaying frames.
</BODY>
</NOFRAMES>
</HTML>
```

HTML Documents

- HTML documents called as a source are no different than normal HTML documents
- The contents described in the body are what is displayed in the targeted frame
- Meta Tags of individual HTML document are ignored by search engines
- Meta Tags within the frameset file are used by search engines
- The only frame related issue is how to navigate the frames from within an HTML document

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Frame Set Navigation - 1

- The Back and Forward Button of the browser provides unpredictable results with frames. Therefore, navigation must be obvious in each document.
- By default any hyperlinked document will be loaded in the current frame.
- To load a document into a different frame use TARGET attribute with the Anchor tag.

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Frame Set Navigation - 2

- To set a default target for all hyperlinks within the html document use the base tag before any hyperlinks are described:
`<BASE TARGET="AlbumMain">`
- Note: Target names are Case Sensitive. They must agree with the case of the FrameID as stated in the Frame Set HTML Document

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Frame Set Navigation - 3

- Predefined Targets allow further manipulation including breaking out of frames.
- Note that all begin with an underscore and must be lower case:
 - `_blank` Load link into new window
 - `_self` Load link into current window (default)
 - `_top` Load link at top level (blows away frames)
 - `_parent` Load link over parent (for nested frames)

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Link Navigation Examples

```
<BASE TARGET="AlbumMain">
```

```
<A HREF="../index.html" TARGET="_top">  
  <IMG SRC="../../btHome.gif" ALT="Home"></A>  
<A HREF="Tassie.htm" TARGET="AlbumMain">  
  <IMG SRC="Tassie.jpg"></A>  
<A HREF="Tassie.htm" TARGET="_self"> <IMG  
  SRC="Tassie.jpg"></A>
```

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External Link Target

- One of the greatest annoyances of frames is when you are stuck in them when going to an off site link
- Break out of frames by using the following anchor tag:
``

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Getting "Framed" Prevention?

- It is annoying to have people enter your site stuck in frame from the linked site.
- Only way to prevent is use JavaScript
- `<SCRIPT LANGUAGE=JAVASCRIPT>`

```
<!--  
function breakOut() {  
  if (self != top)  
    window.open("my URL", "_top", "");  
} // -->  
</SCRIPT>
```

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