

# HTML

Project #6

## Project 6

Using Frames  
in a Web Site

# VHS

## Project #6



# Project Objectives

- Define terms related to frames
- Describe the steps used to design a frame structure
- Plan and lay out a frameset
- Create a frame definition file that defines three frames
- Use the `<frameset>` tag

# Project Objectives

- Use the `<frame>` tag
- Change frame scrolling options
- Name a frame content target
- Identify Web pages to display at startup
- Set frame rows

# Project Objectives

- Set frame columns
- Create a header page with text
- Create a navigation menu page with text links
- Create a home page

# Creating a Frame Definition File

- A **frame definition file** defines the layout and contents of each frame in the Web page
- A **frameset** is found in the **frame definition file** and is used to define the layout of the frames that are displayed

# Frame Definition File Tags

## <frameset>

- Defines the layout of frames, requires an end tag
- **cols** = measurements of the columns, divided by commas, i.e. **rows** = "60%, 40%"
- **rows** = measurements of the rows, divided by commas

Remember, there are three types of values you can use as measurements:

1. - absolute value: the number of pixels, will not resize with the window
2. - relative value: a percentage, object will resize relative to the window
3. - \*: fills in the remaining space

# Frame Definition File Tags

## <frame>

- Defines the layout of frames, no end tag
- **frameborder** = "on" or "off"
  - Turns on/off the borders that separate frames. By default, **frameborder** = "on"
- **bordercolor** sets the bordercolor. Value should be a **hexadecimal value**.
- **marginwidth/marginheight** set the margins (in **pixels**) between the edges of a frame and the page it is displaying

# Frame Definition File Tags

## <frame> (cont'd)

- **noresize** has no value. It stops the user from resizing the frame
- **name** defines the **name** of a frame that is used in a target
- **scrolling** = "yes" or "no"
  - specifies whether or not the frame has a scrollbar
- **src** = "url/filename"
  - specifies what page or other file should be displayed in the frame

# Frame Definition File Tags

`<noframes>`

If the browser is not able to display frames, text between these tags will display instead. You can use this to tell users that they must use a different browser to view your page.

- ***Always include noframes tags in your frame definition file.***

`</noframes>`

# Creating a Frame Definition File

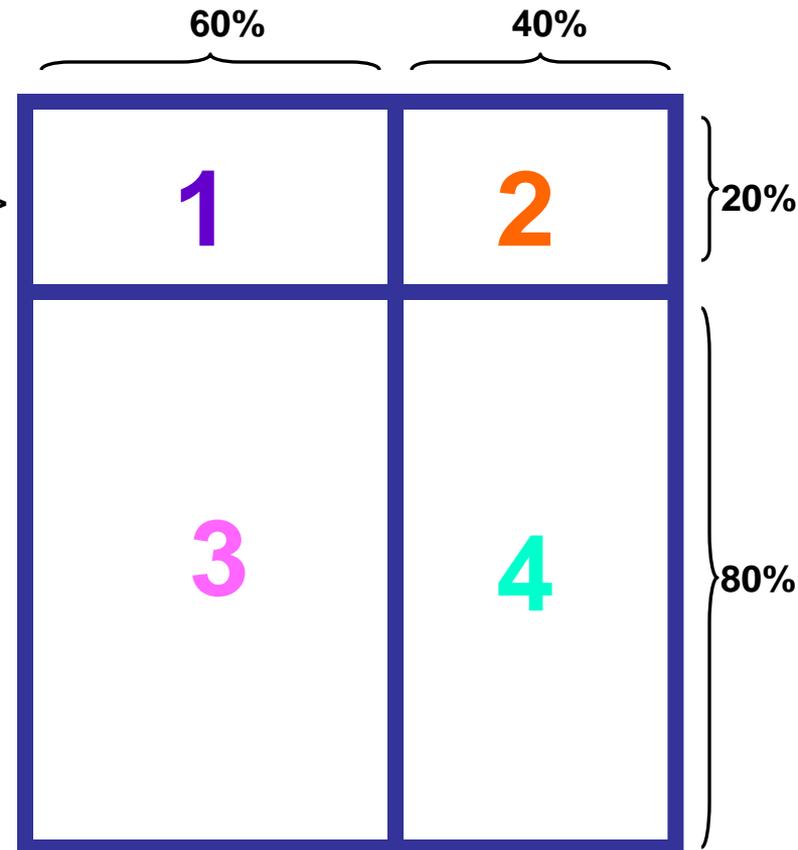
- In a framed website, the **frame definition file** takes the place of **index.htm**
- This file does not use the body tag, but uses `<frameset>` tags to divide the page into sections instead
- Use `<frame>` tags to fill in the sections
- The frameset tag divides a page into the number of **rows** and **columns** you specify
- Nest framesets within framesets to create easily navigable layouts

# Creating a Frame Definition File

A simple example using framesets:

```
<frameset rows = "20%, 80%" cols = "60%, 40%">  
  <frame src = "page1.htm" name = "1">  
  <frame src = "page2.htm" name = "2">  
  <frame src = "page3.htm" name = "3">  
  <frame src = "page4.htm" name = "4">  
</frameset>
```

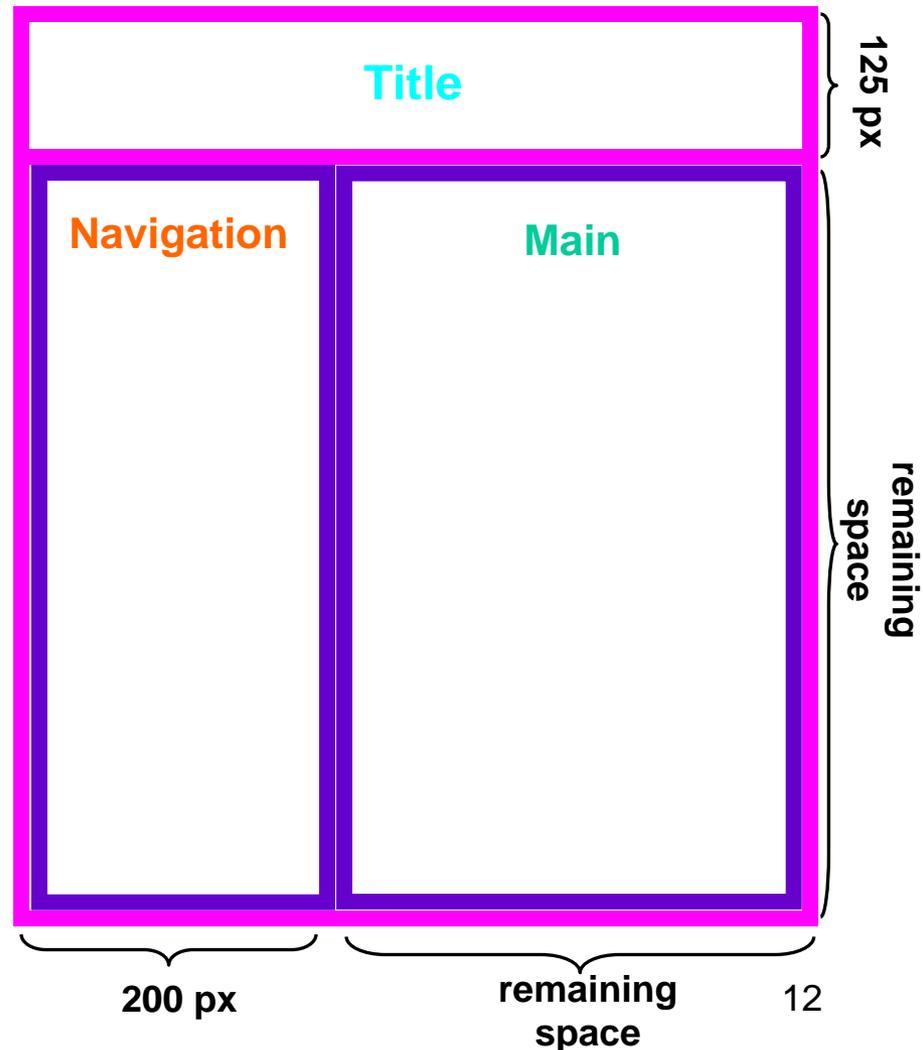
- Note that frames fill in from **left to right**, **top to bottom**
- Name your frames so that if you want a link to load an HTML file in a certain frame, you can specify **which** frame



# Nesting Framesets

- To create the layout shown on the right using framesets:

```
<frameset rows = "125,*">  
  <frame name = "title"...>  
  
  <frameset cols = "200,*">  
    <frame name = "navigation"...>  
    <frame name = "main"...>  
  </frameset>  
</frameset>
```



# Making a Website With Frames

This is the code from the previous page, but with completed frame tags.

```
<html>
<head>
  <title> Home </title>
</head>
<frameset rows = "125, *">
  <frame marginheight = "8"
        src = "title.htm"
        scrolling = "no"
        name = "heading">
  <frameset cols = "200, *">
    <frame src = "navbar.htm" scrolling = "yes" name = "nav">
    <frame src = "main.htm" scrolling = "yes" name = "main">
  </frameset>
</frameset>
</html>
```

The first frameset will have two rows—the first will be 125 pixels tall, and the second will take the remaining space.

This will put 8 pixels of space between the top of the frame and the top of title.htm. Similar to **cellpadding** with tables.

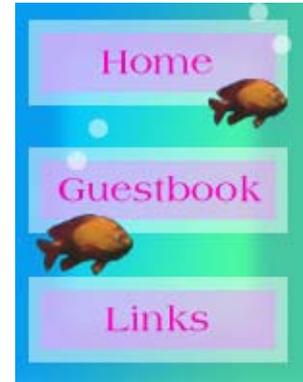
This will put a scrollbar in this frame. This is useful for **long navigation bars** or the frame that most of your **content pages** will be loading into.

Src specifies which page to load into the frame.

# The Target Attribute

- Recall navbar.htm from Project 5:

```
<img src = "navbar.jpg"
      usemap = "#nav">
<map name = "nav">
  <area shape = "rect"
        coords = "7, 9, 140, 53"
        href = "index.htm">
  <area shape = "rect"
        coords = "7, 76, 140,120"
        href = "guest.htm">
  <area shape = "rect"
        coords = "7,144, 140,188"
        href = "links.htm">
</map>
```



What if we want the links to load into a certain frame?

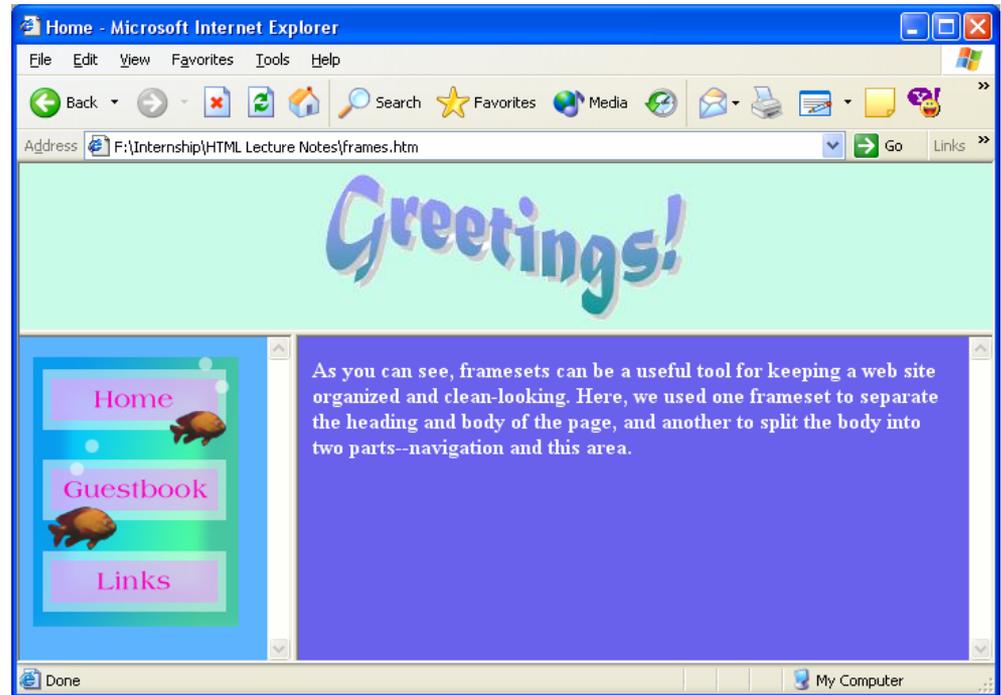
- The **target** attribute, which can be used with both the `<area>` and `<a>` tags, specifies which frame a link should load a page into:

```
<area shape = "rect"
      coords = "7, 9, 140, 53"
      href = "index.htm"
      target = "main">
```

# The Target Attribute

- **Target** has 5 other possible values:
  - "**\_blank**" loads the page into a new window
  - "**\_self**" loads the page into the frame that contains the link
  - "**\_parent**" loads the page into the parent window
  - "**\_top**" loads the page into the current window, ***and breaks out of frames***
  - Typing the *name of a window* will make the page load into that window

# The Results:



- After creating your frame definition file and the necessary pages, **test** to make sure that:
  1. Pages are in the correct frames
  2. All links load to the correct frames
  3. The page is easy to navigate

# Project Summary

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# Project Summary

- Use the `<frame>` tag
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# Project Summary

- Set frame columns
- Create a header page with text
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# HTML

Project #6

## Project 6 Complete

# VHS

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