

Frames

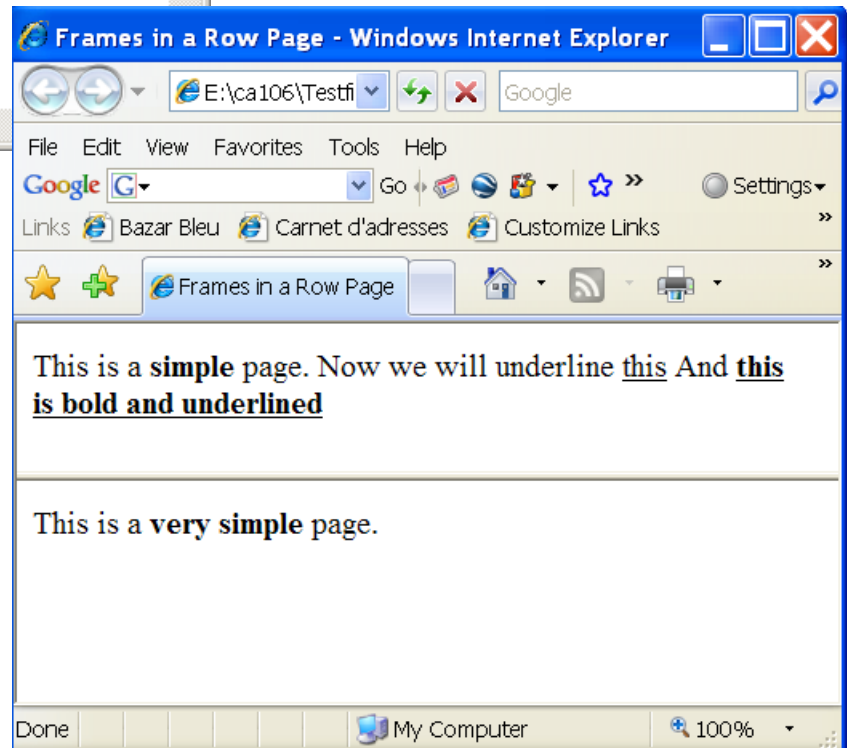
- Divide display into a number of distinct areas, display different HTML pages in each area
- Frame page specifies layout of frames
- `<frameset>` tag specifies a set of related frames
- `<frame>` tag introduces each frame

Defining Frames

- For a set of frames specify:
 - Whether they are in rows or columns
 - What percentage of available space occupied by frame
- For individual frames specify:
 - HTML page that will be displayed (source of frame)
 - Name of frame

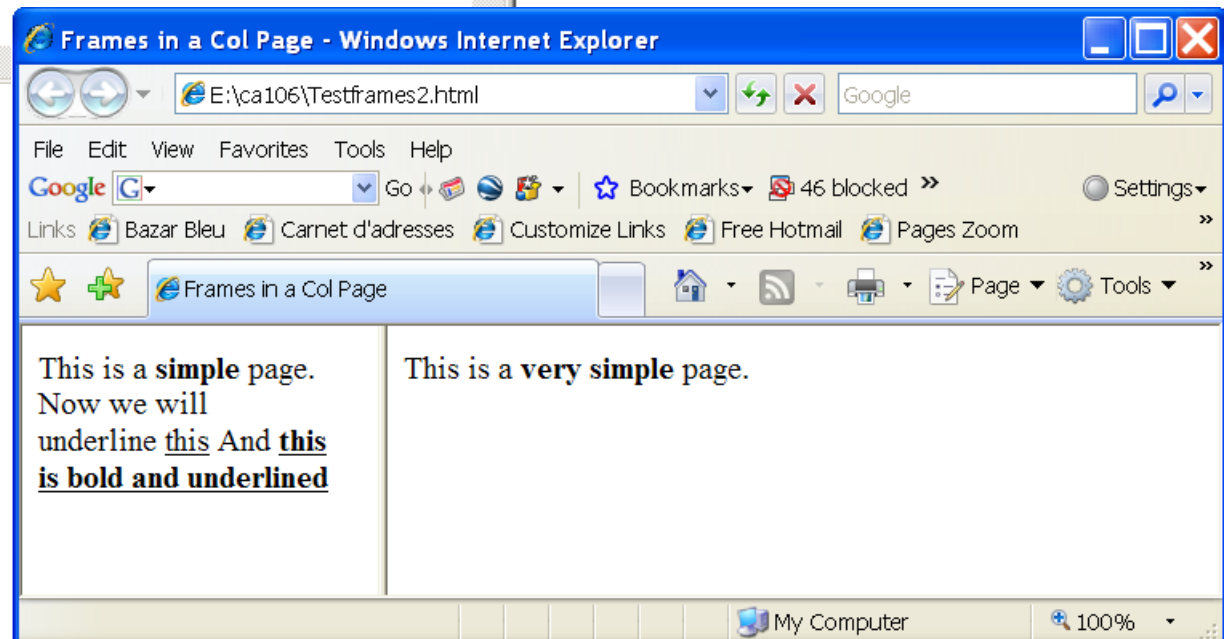
Frames in rows

```
Testframes1 - Notepad
File Edit Format Help
<html>
  <head>
    <title> Frames in a Row Page</title>
  </head>
  <frameset rows = "40%, 60%">
    <frame src= "Test4.html"      Name="Top">
    <frame src= "Test3.html"      Name="Bottom">
  </frameset>
</html>
```



Frames in columns

```
Testframes2 - Notepad
File Edit Format Help
<html>
  <head>
    <title> Frames in a Col Page</title>
  </head>
  <frameset cols = "30%,70%">
    <frame src="Test4.html"      Name="Left">
    <frame src="Test3.html"      Name="Right">
  </frameset>
</html>
```

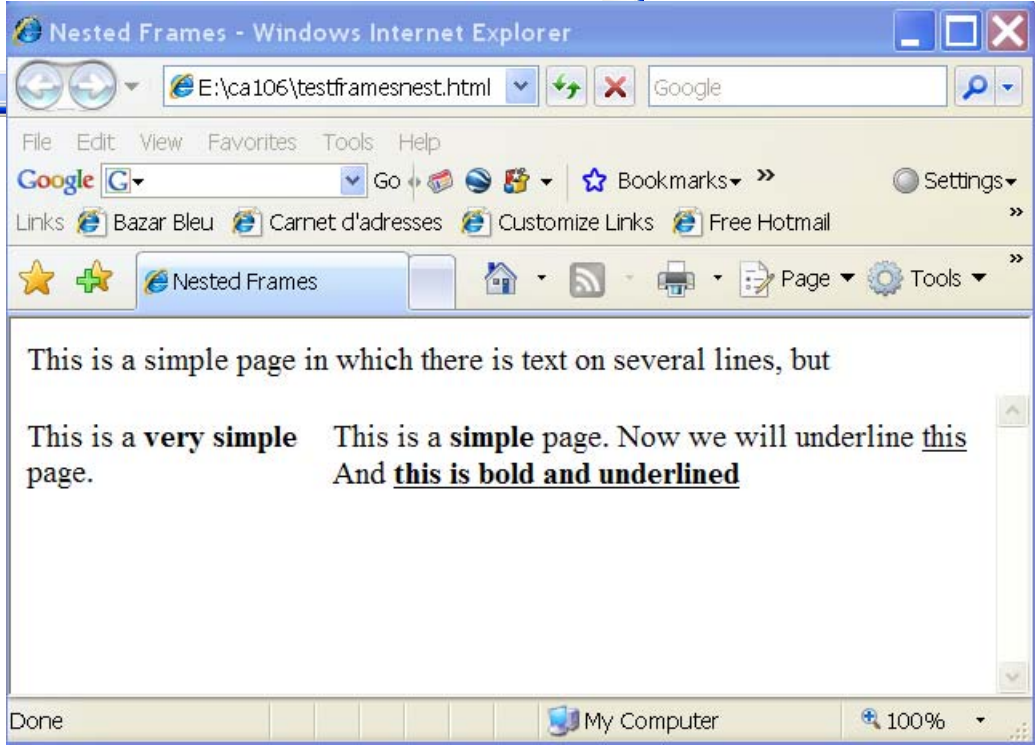


Other `<frame>` Attributes

- **Resize:** frames can usually be re-sized by dragging the bar separating the frames. To prevent this use **`noresize`** attribute
- If frame content too large for frame, scroll bars are added. To change this **`scrolling`** attribute set to **`YES`**, **`NO`** or **`AUTO`**

Nested Frames

```
testframesnest - Notepad
File Edit Format View Help
<html>
<head>
<Title>Nested Frames</Title>
</head>
  <frameset rows = "20%, 80%" border =0>
    <frame src = "Test1.html" name="Top" scrolling = no noresize>
      <frameset cols = "30%,70%" border = 0>
        <frame src = "Test3.html" name = "Left" scrolling=no noresize>
        <frame src="Test4.html" name = "right" scrolling=Yes>
      </frameset>
    </frameset>
</html>
```



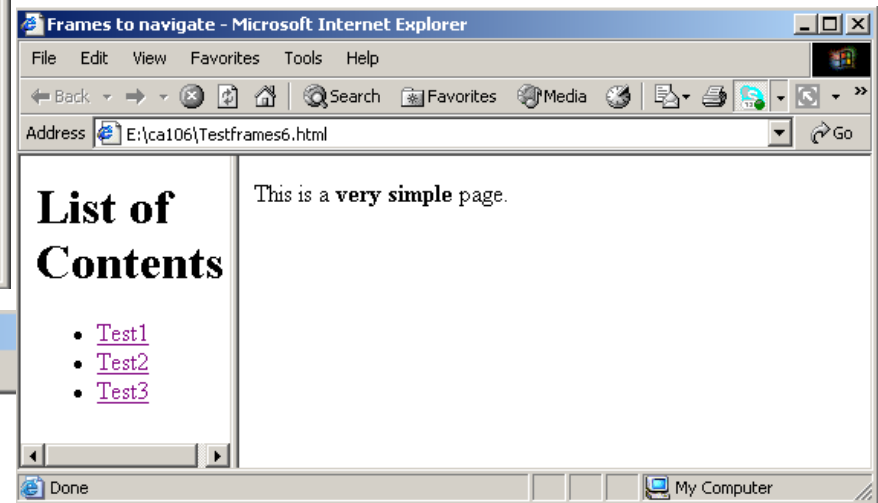
Navigation between Frames

- Normally when you follow a link, new page overwrites page containing link
- If page displayed in frame, contents of frame overwritten
- Within an `<a>` tag, we can specify frame in which page should be loaded

Frame Navigation – link clicked in left frame displayed in right frame

```
Testframes6 - Notepad
File Edit Format Help
<html>
  <head>
    <title> Frames to navigate</title>
  </head>
</html>
<frameset cols="25%,75%">
<frame src="Testframes4.html" name="left">
<frame src="Test3.html" name="right">
</frameset>

</html>
```



```
Testframes4 - Notepad
File Edit Format Help
<html>
  <head>
    <title> Contents</title>
  </head>
<body>
<h1>List of Contents</h1>
<ul>
  <li> <a href="test1.html" target="right">Test1</a>
  <li> <a href="test2.html" target="right">Test2</a>
  <li> <a href="test3.html" target="right">Test3</a>
</ul>
</body>
</html>
```

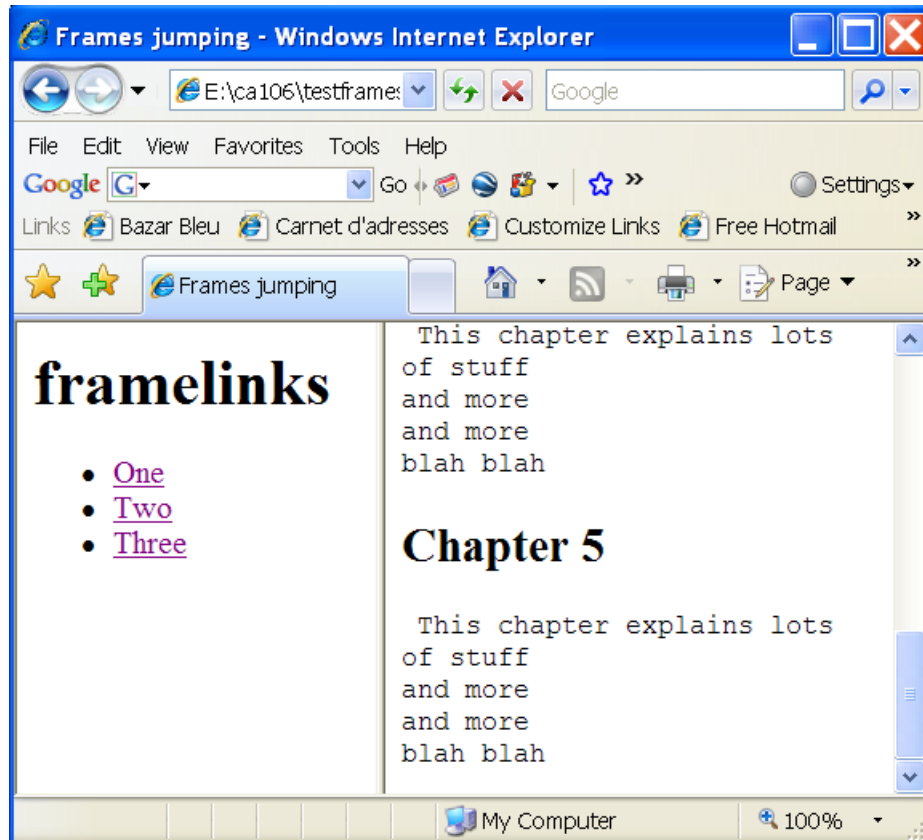
Jump to specified section within a Frame

```
testframesjump - Notepad
File Edit Format View Help
<html>
<head>
  <title>Frames jumping</title>
</head>
<frameset cols="40%",60%">
<frame src = "framelink.html" name = "left">
<frame src="jumplink.html" name = "showframe">
</frameset>
</html>
```

```
framelink - Notepad
File Edit Format View Help
<html>
<head>
<title> framelink page </title>
</head>
<body>
<h1> framelinks</h1>
<ul>
<li><a href = "Test1.html" target = "showframe"> One </a>
<li><a href = "jumplink.html" target = "showframe"> Two </a>
<li> <a href = "jumplink.html#c5" target = "showframe">Three</a>
</ul>
</body>
</html>
```

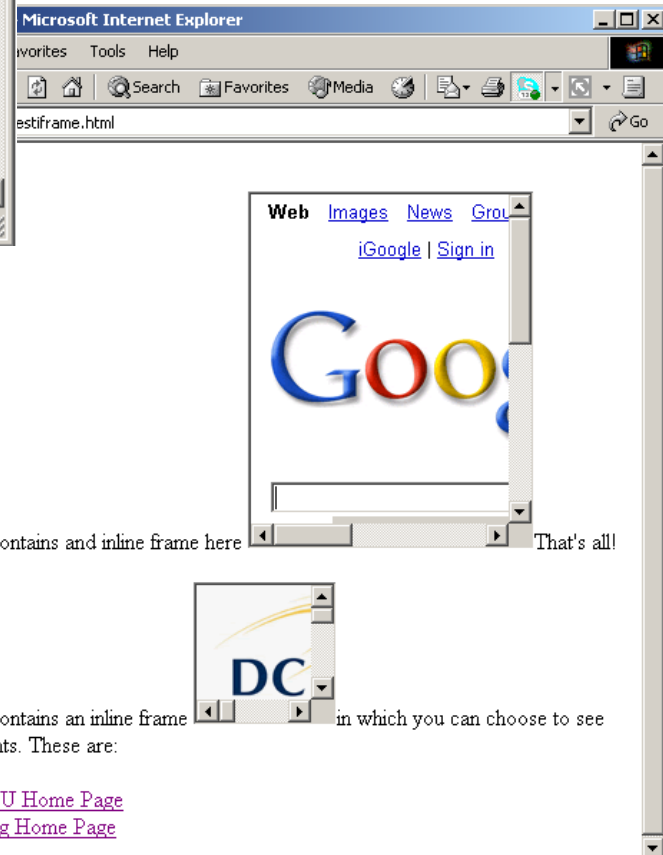
```
jumplink - Notepad
File Edit Format View Help
<body>
<a name="c1"><h2>Chapter 1</h2>
<p> This chapter explains lots
of stuff
and more
and more
blah blah </p>
<a name="c2"><h2>Chapter 2</h2>
<p> This chapter explains lots
of stuff
and more
and more
blah blah </p>
<a name="c3"><h2>Chapter 3</h2>
<p> This chapter explains lots
of stuff
and more
and more
blah blah </p>
<a name="c4"><h2>Chapter 4</h2>
<p> This chapter explains lots
of stuff
and more
and more
blah blah </p>
<a name="c5"><h2>Chapter 5</h2>
<p> This chapter explains lots
of stuff
and more
and more
blah blah </p>
</body>
</html>
```

Clicking on **Three** displays Chapter 5 on **jumplink** page



Inline Frames – windows within a page

```
testiframe - Notepad
File Edit Format Help
<html>
<head>
<title>Iframes example</title>
</head>
<body>
<br>This document contains and inline frame here
<iframe src="http://www.google.ie"width=200 height=250</iframe> That's all!
<br>
<br>This document contains an inline frame
<iframe name="iframe" width = 100 height = 100</iframe>
in which you can choose to see various documents. These are:
<ul>
<li><a target="iframe" href="http://www.dcu.ie/"> Open DCU Home Page</a></li>
<li><a target="iframe" href="http://www.computing.dcu.ie"> Computing Home
Page</a></li>
</ul>
</body>
</html>
```



Problems Navigating with Frames

- Deep linking pulls content out of original context (getting lost). May be best to ensure external links open in new window

```
<a href = "http://www.google.ie" target = "popup">
```

- If use same target name for all external links, all sent to same window
- Note: not all browsers support frames. Use `<noframes>` tag to display alternative page

```
<noframes> Viewing this page requires a browser capable  
of displaying frames</noframes>
```