

# WEB DEVELOPMENT

---

## Lecture 05 Tables

# XHTML Tables

---

HTML table elements were first introduced in Netscape v1.1 as a way of displaying lists and tabular data.

HOWEVER:

Webpage designers started to use them as a way of laying out the pages.

As a result, there are quite a few websites which do not use these elements in the correct way.

All page layout should now be done by using CSS.

# Table elements

---

<code>&lt;table&gt;</code>	Establishes a table
<code>&lt;tr&gt;</code>	Table Row
<code>&lt;td&gt;</code>	Table Data cell
<code>&lt;th&gt;</code>	Table Header cell
<code>&lt;caption&gt;</code>	Table caption
<code>&lt;thead&gt;</code>	Table header
<code>&lt;tbody&gt;</code>	Table body
<code>&lt;tfoot&gt;</code>	Table footer
<code>&lt;col&gt;</code>	Declares a column
<code>&lt;colgroup&gt;</code>	Declares a group of columns

# Basic Table Structure

---

```
<table>
```

```
  <tr>
```

```
    <td>Red</td><td>Green</td>
```

```
  </tr>
```

```
  <tr>
```

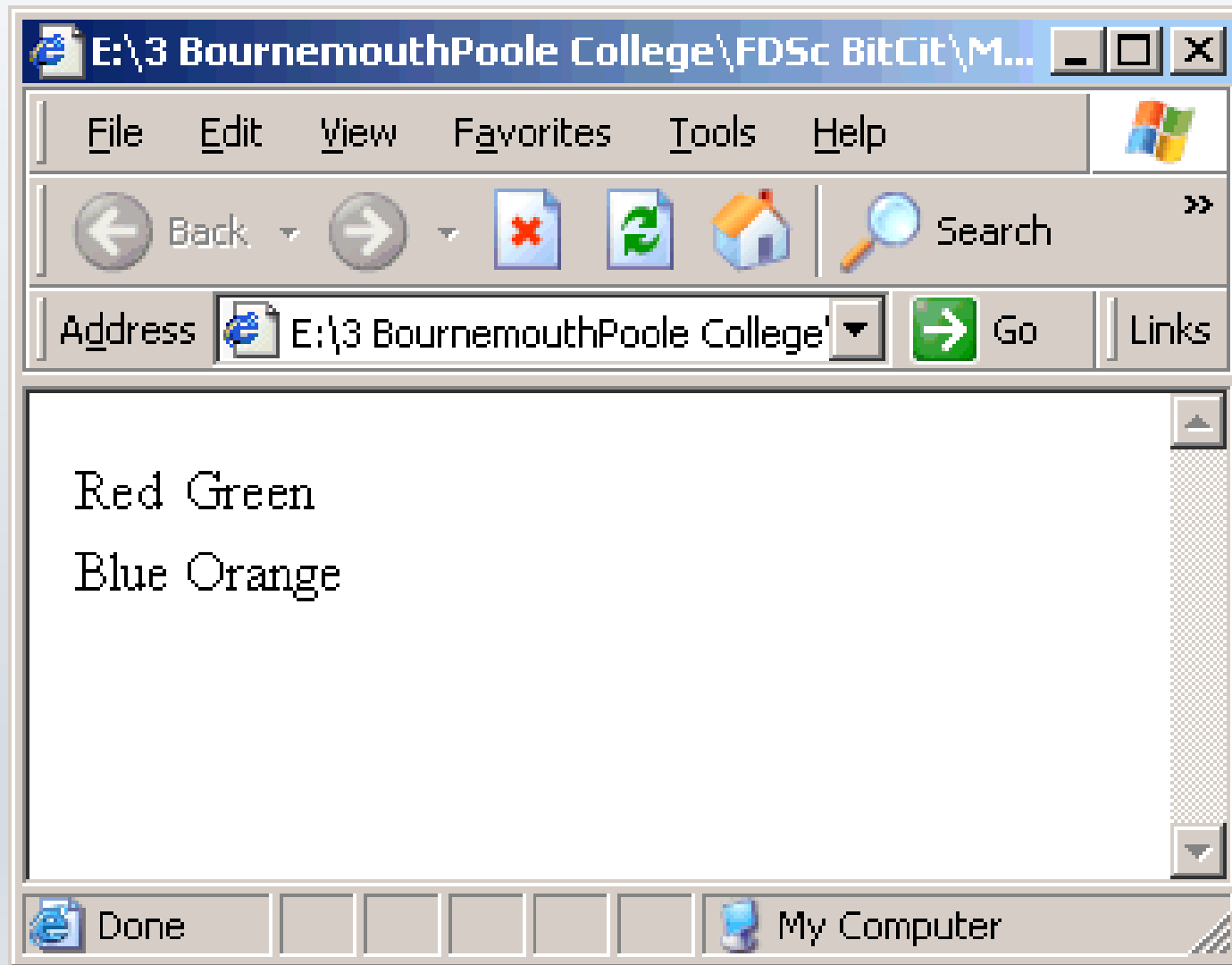
```
    <td>Blue</td><td>Orange</td>
```

```
  </tr>
```

```
</table>
```

# Which would look like this

---



# To make things easier to see....

---

```
<table border="3">
```

```
  <tr>
```

```
    <td>Red</td> <td>Green</td>
```

```
  </tr>
```

```
  <tr>
```

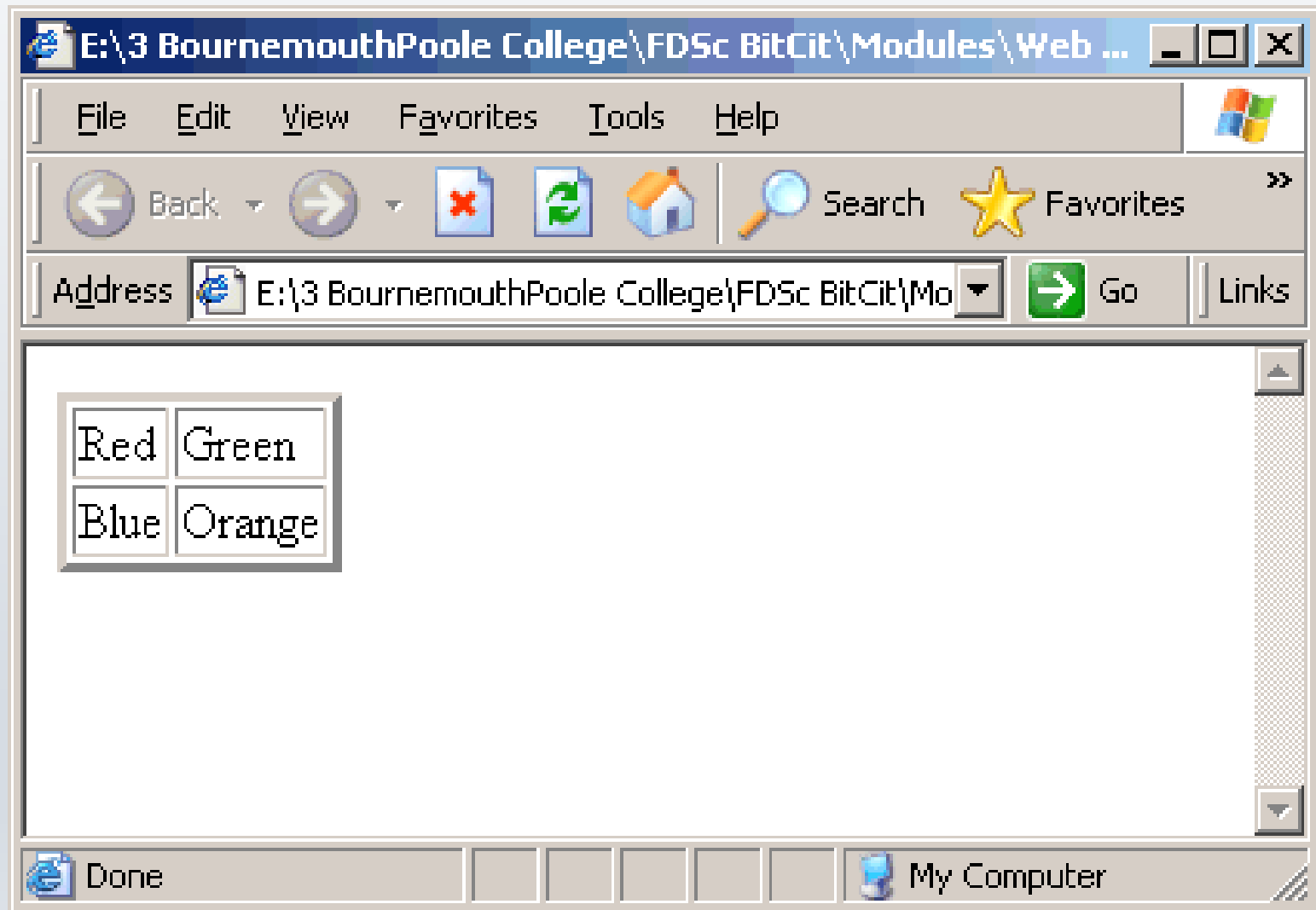
```
    <td>Blue</td> <td>Orange</td>
```

```
  </tr>
```

```
</table>
```

# which would display this...

---



# Spanning Columns

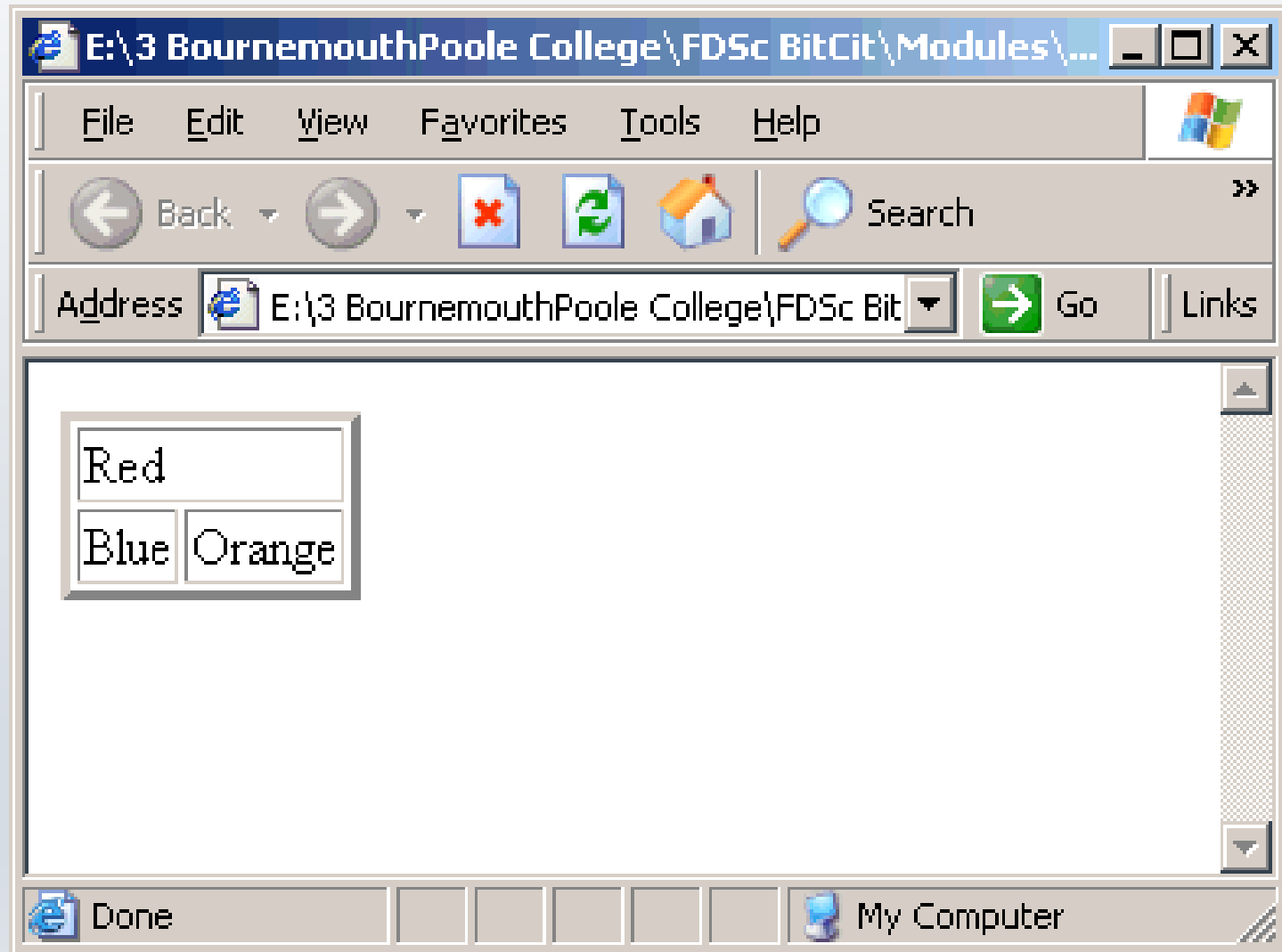
---

```
<table border="3">  
  <tr>  
    <td colspan="2">Red</td>  
  </tr>  
  <tr>  
    <td>Blue</td> <td>Orange</td>  
  </tr>  
</table>
```



# will cause that data cell to span 2 cols

---



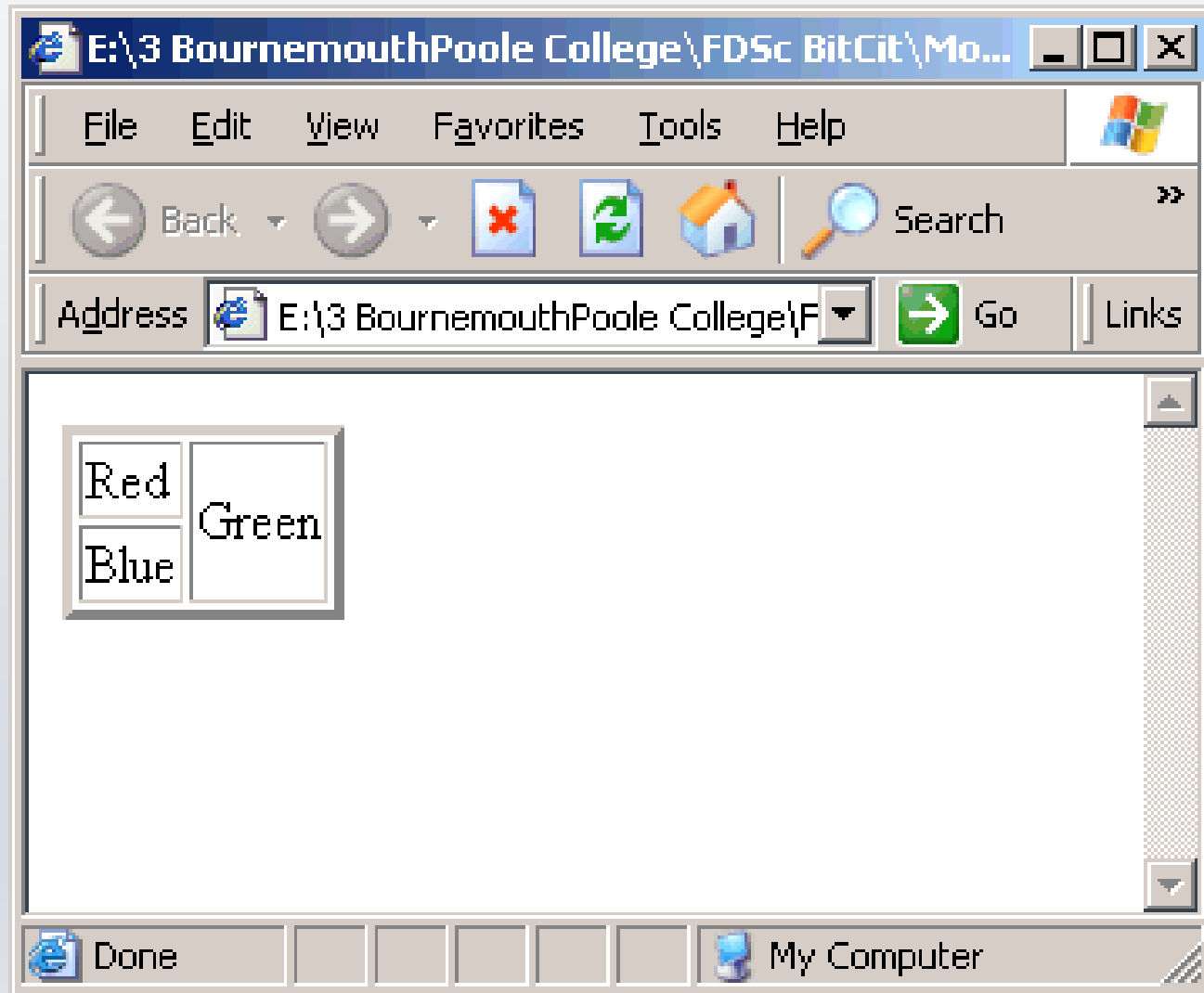
# Spanning Rows

---

```
<table border="3">  
  <tr>  
    <td>Red</td> <td rowspan="2">Green</td>  
  </tr>  
  <tr>  
    <td>Blue</td>  
  </tr>  
</table>
```

# will produce this

---



# Headers and Captions

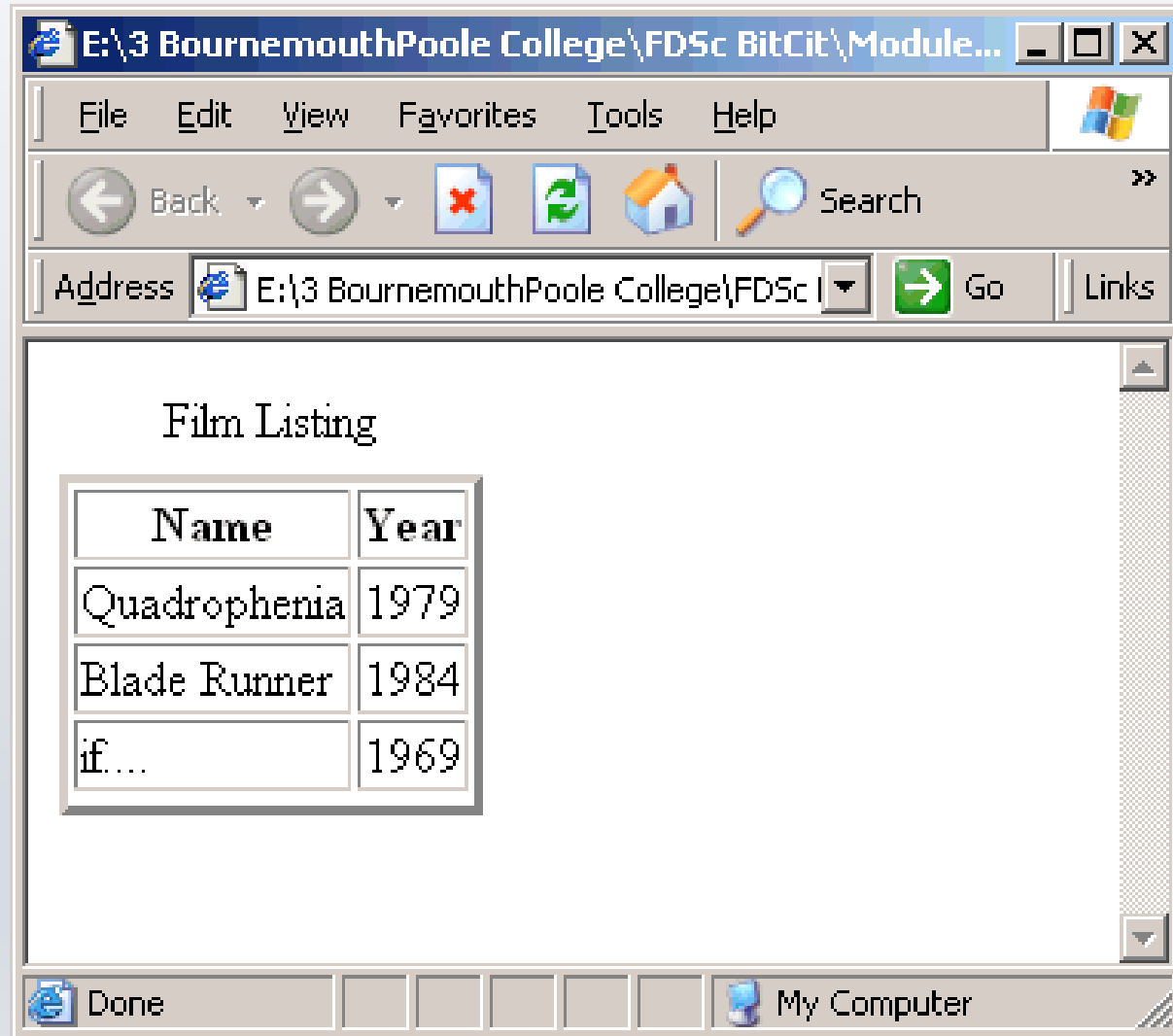
---

```
<table border="3">
<caption>Film Listing</caption>
  <tr>   <th>Name</th>           <th>Year</th> </tr>
  <tr>   <td>Quadrophenia</td> <td>1979</td> </tr>
  <tr>   <td>Blade Runner</td> <td>1984</td> </tr>
  <tr>   <td>if....</td>         <td>1969</td> </tr>
</table>
```

You can add captions and markup one of the rows as being the headings for the table.

# Table with caption and headings

---



# Applying CSS to Tables

---

```
<html>
<head>
  <link rel="stylesheet" href="Table07.css"
                                              type="text/css"></link>
</head>
<body>
  <table>
    <tr><th>Name</th><th>Year</th></tr>
    <tr><td class="title">Quadrophenia</td><td>1979</td></tr>
    <tr><td class="title">Blade Runner</td><td>1984</td></tr>
    <tr><td class="title">if....</td><td>1969</td></tr>
  </table>
</body>
</html>
```

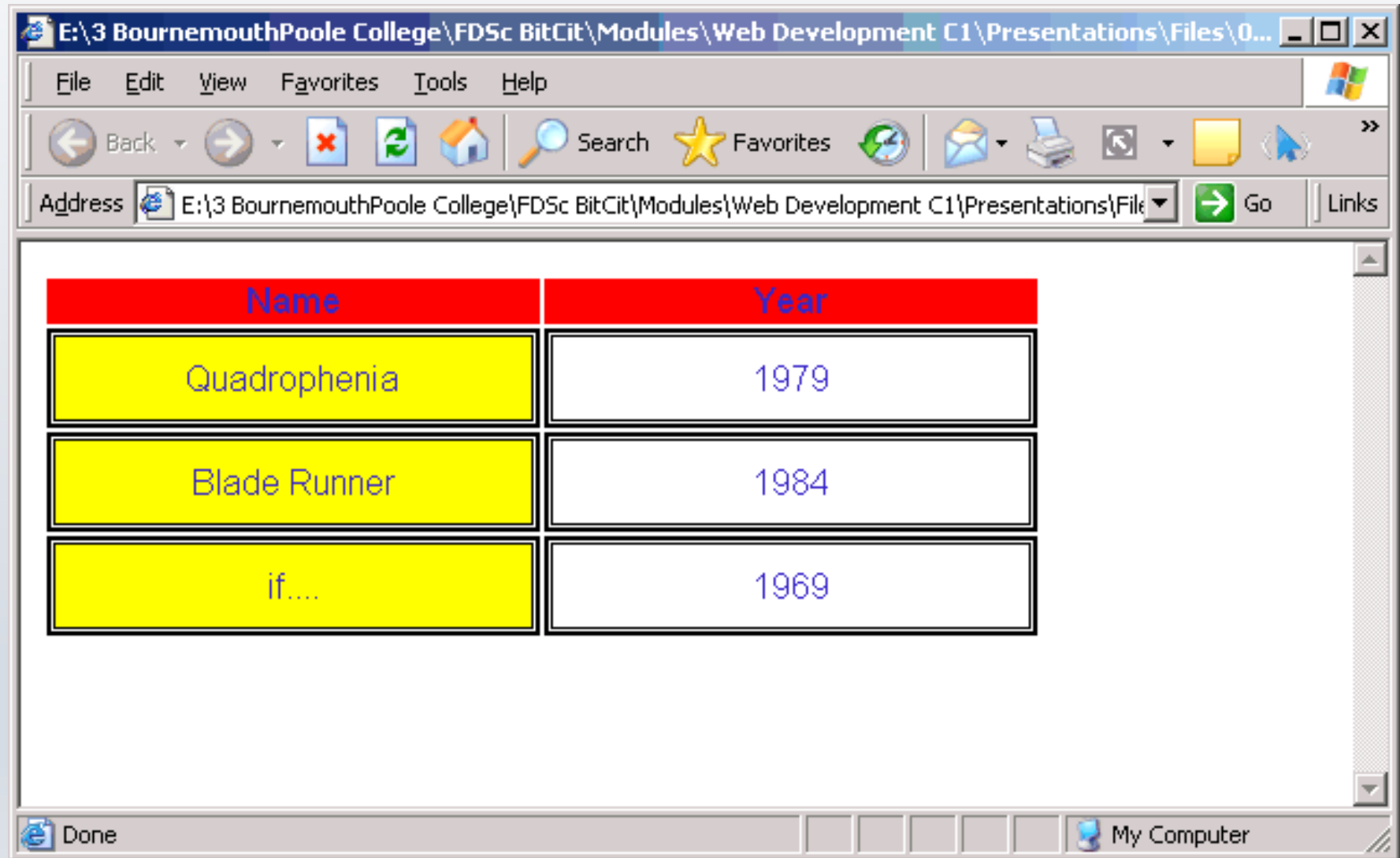
```
table
{
font-family: Arial;
color: Blue;
text-align: center;
vertical-align: middle;
}

th
{
font-weight: bold;
background-color: red;
}

td
{
width: 200px;
padding: 10px;
border: double;
border-color: black;
}

td.title
{
background-color: yellow;
}
```

will produce this monstrosity....





# Row Groups

---

You can group together rows into three categories like this:

```
<table>
  <thead>
    <tr><th>Name</th><th>Year</th></tr>
  </thead>

  <tfoot>
    <tr><td colspan="3">Compiled by KJW</td></tr>
  </tfoot>

  <tbody>
    <tr><td class="title">Quadrophenia</td><td>1979</td></tr>
    <tr><td class="title">Blade Runner</td><td>1984</td></tr>
    <tr><td class="title">if...</td><td>1969</td></tr>
  </tbody>

</table>
```

# Purpose of Rowgroups

---

It enables you hang styles on them in a CSS.

It may one day be possible to display the `<thead>` and `<tfoot>` elements as fixed, and have the body elements scroll independently.

Another possibility is that the `<thead>` and `<tfoot>` elements could print on every page of a long table that is printed.

The W3C requires that a `<tfoot>` element, if there is one, should appear before the `<tbody>` element.

# Column Groups

```
<table border="3">  
  <caption>Film Listing</caption>
```

```
  <colgroup id="filminfo">  
    <col span="2" class="main" />  
    <col span="1" class="star" />  
  </colgroup>
```

```
col.main  
  { color: red; }
```

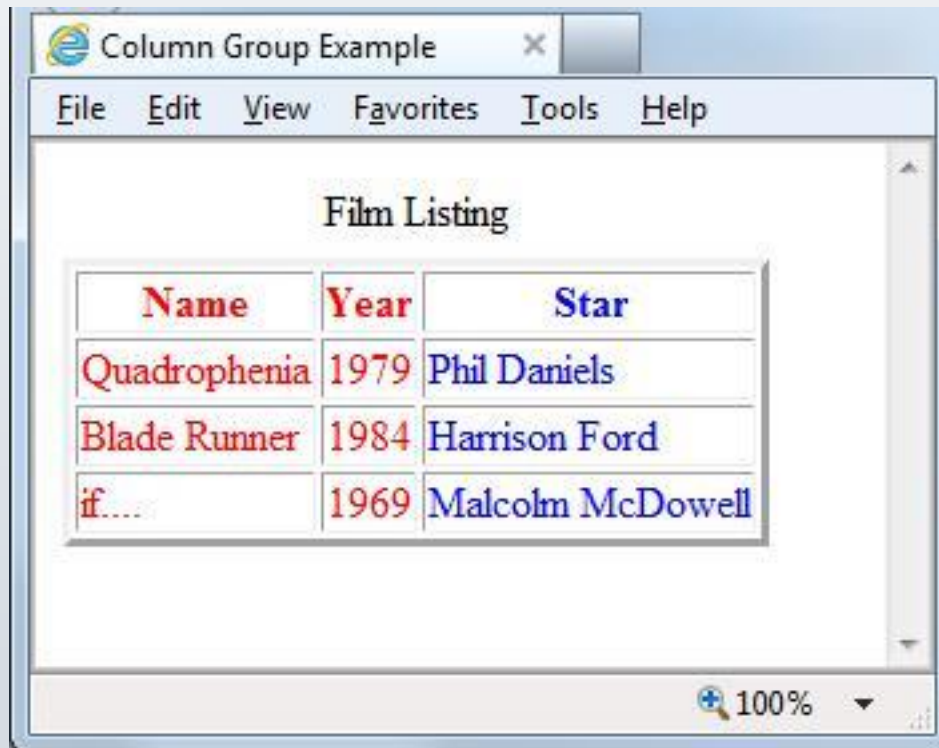
```
col.star  
  { color: blue; }
```

```
<tr><th>Name</th><th>Year</th><th>Star</th></tr>  
<tr><td>Quadrophenia</td><td>1979</td><td>Phil Daniels</td></tr>  
<tr><td>Blade Runner</td><td>1984</td><td>Harrison Ford</td></tr>  
<tr><td>if....</td><td>1969</td><td>Malcolm McDowell</td></tr>  
</table>
```

You could then attach a style to that group of columns if you wish.

# Gives you this

---



The screenshot shows a web browser window with the title 'Column Group Example'. The browser's menu bar includes 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. The main content area displays a table titled 'Film Listing'. The table has three columns: 'Name', 'Year', and 'Star'. The data rows are as follows:

Name	Year	Star
Quadrophenia	1979	Phil Daniels
Blade Runner	1984	Harrison Ford
if....	1969	Malcolm McDowell

The browser's status bar at the bottom right shows a magnifying glass icon and '100%'.

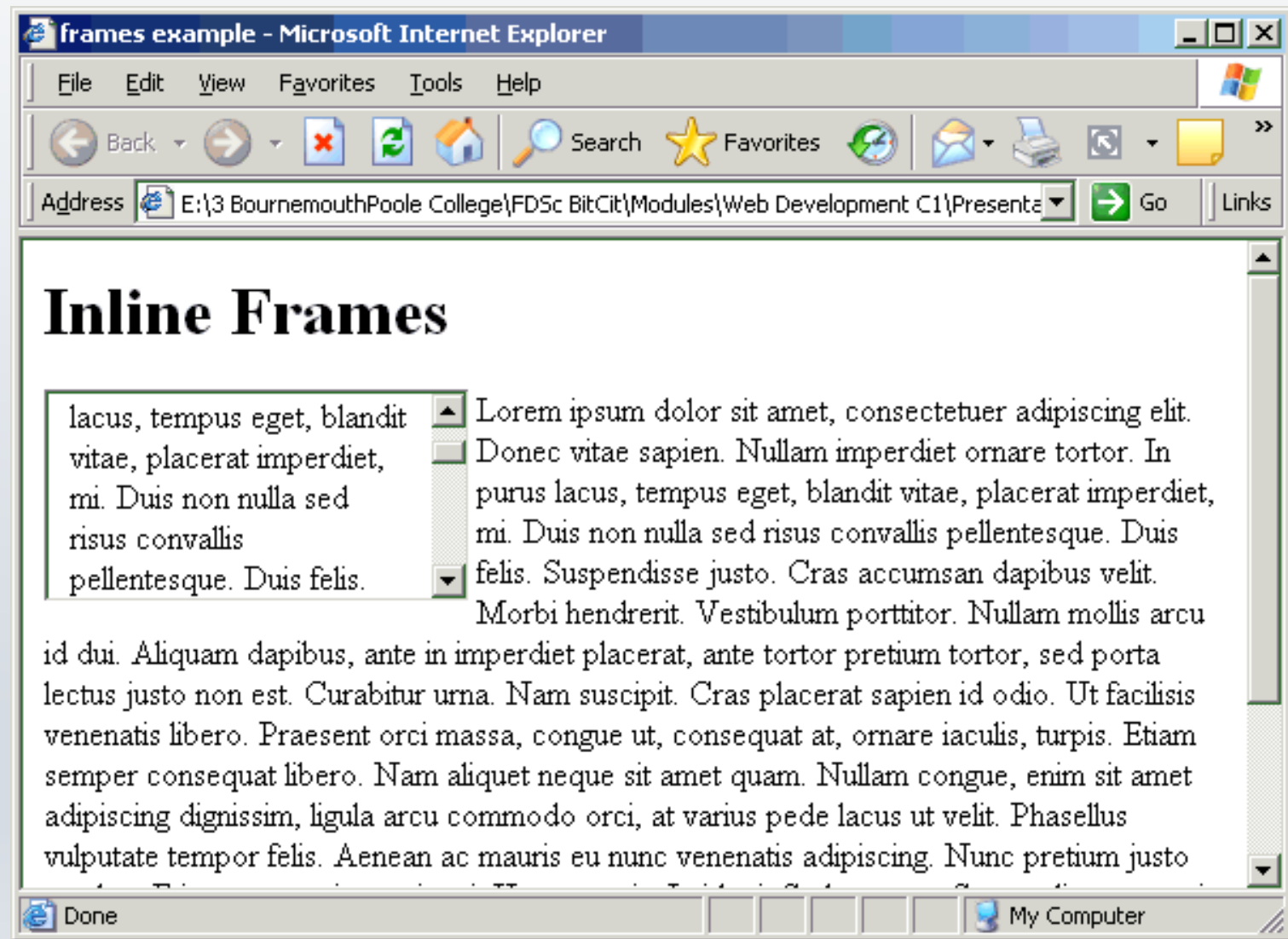
# Inline (Floating) Frames

---

Rather than being part of the structure of the document, an iframe can be placed anywhere on the page:

```
<body>
  <h1>Inline Frames</h1>
  <p>
    <iframe src="long.htm" width="200"
              height="100" align="left"></iframe>
  </p>
  <p>Lorem ipsum dolor sit amet.....</p>
</body>
</html>
```

# will produce this...



# History

---

Initially an Internet Explorer specific tag.

Incorporated into the HTML 4.0 and XHTML 1.0 as standard.

It is part of HTML5.

Dropped from XHTML 1.1 standard.

There are other ways of getting the same effect by using CSS.