



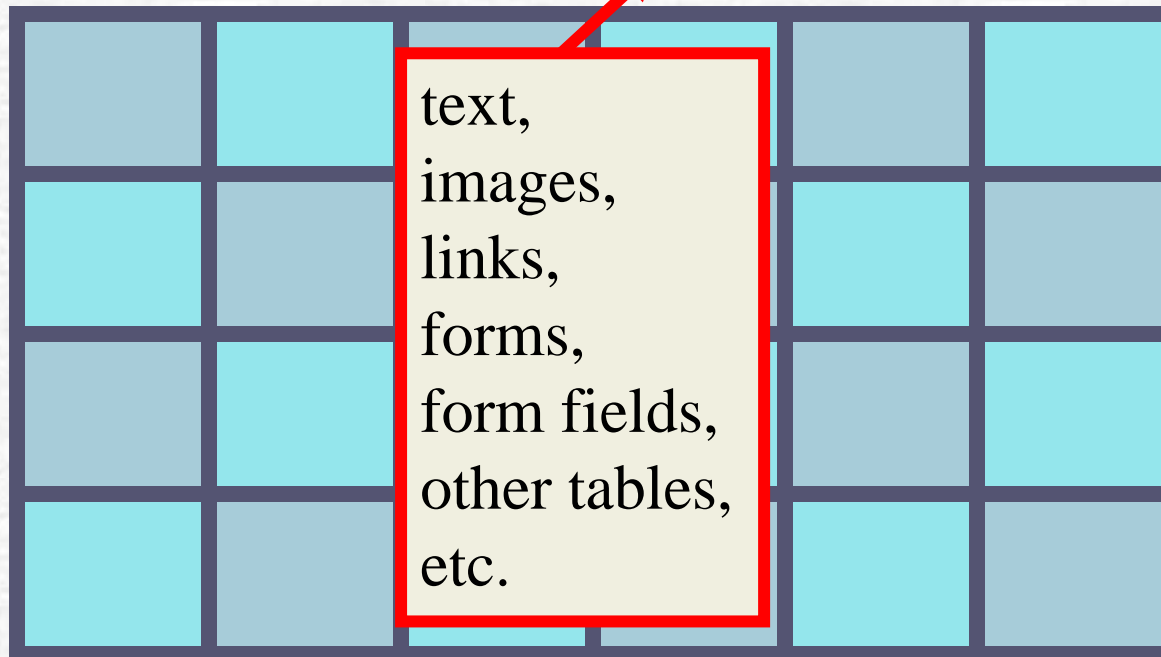
# Week 4

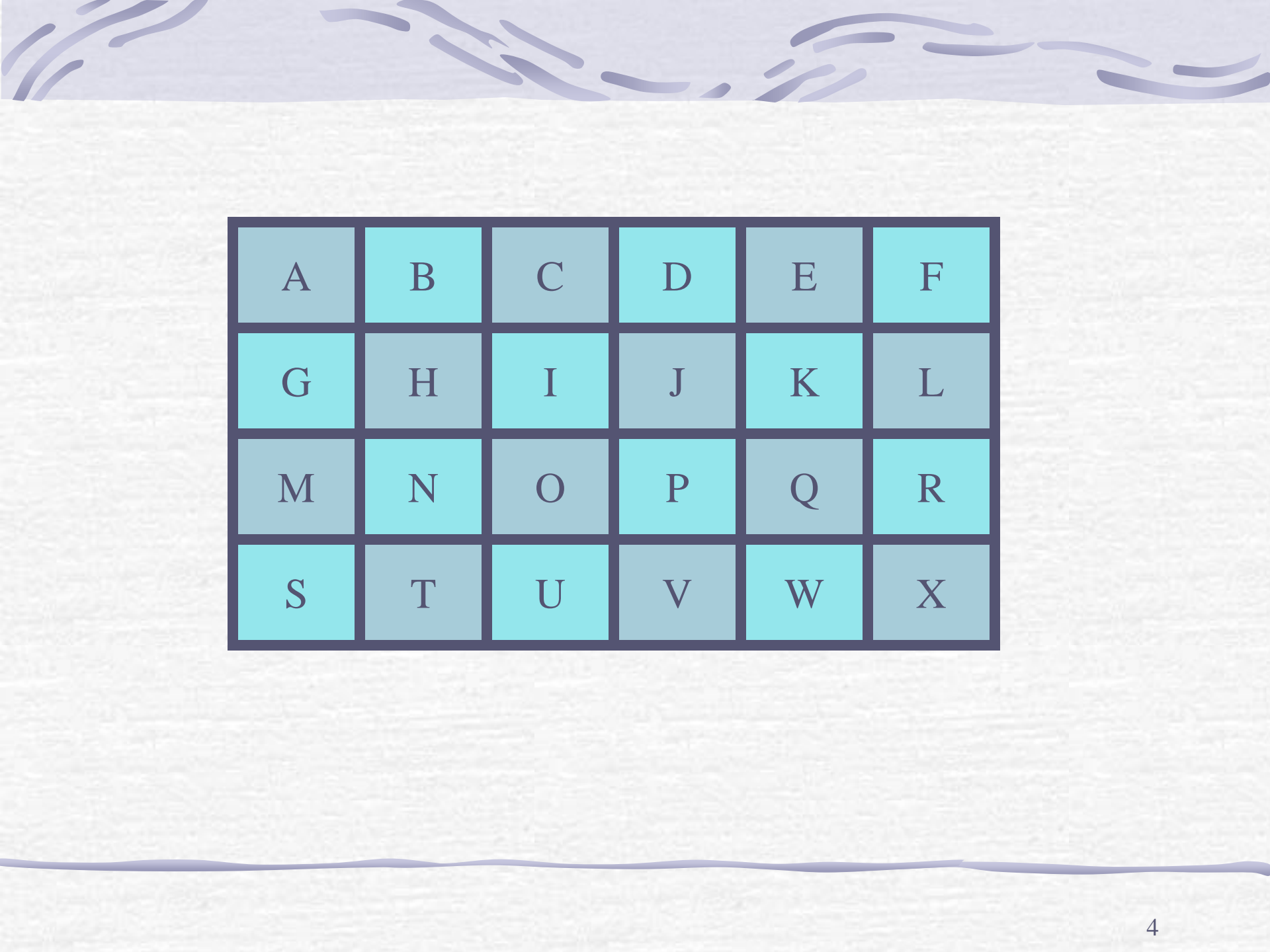
## Creating Tables using HTML



# Creating Tables using HTML


An HTML table allows you to arrange data into rows & columns of cells.





A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X



A&B		C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X

A,B,G,H, M,N,S,T	C	D	E	F
	I	J	K	L
	O	P	Q	R
	U	V	W	X

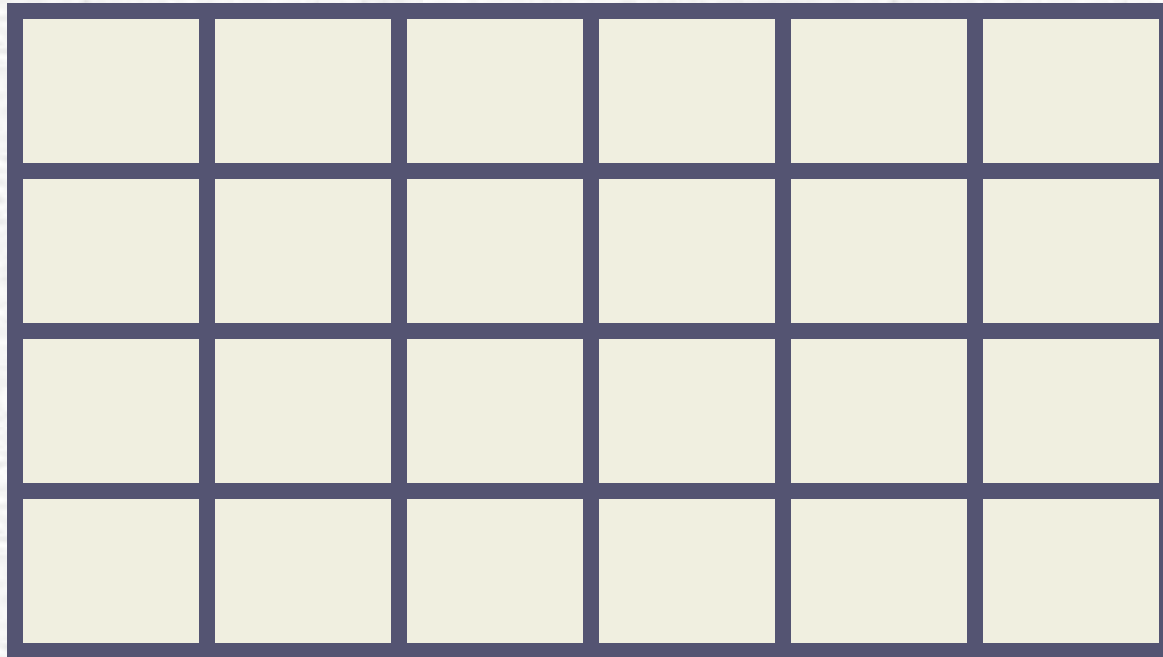
A,B,G,H, M,N,S,T	C	D	E	F
	I	J	K	L
	O	P & Q		R
	U	V	W	X

A,B,G,H, M,N,S,T	C	D	E	F
	I	J	K	L
	O	P & Q		R
	U	V	W	X

A,B,G,H,  
M,N,S,T

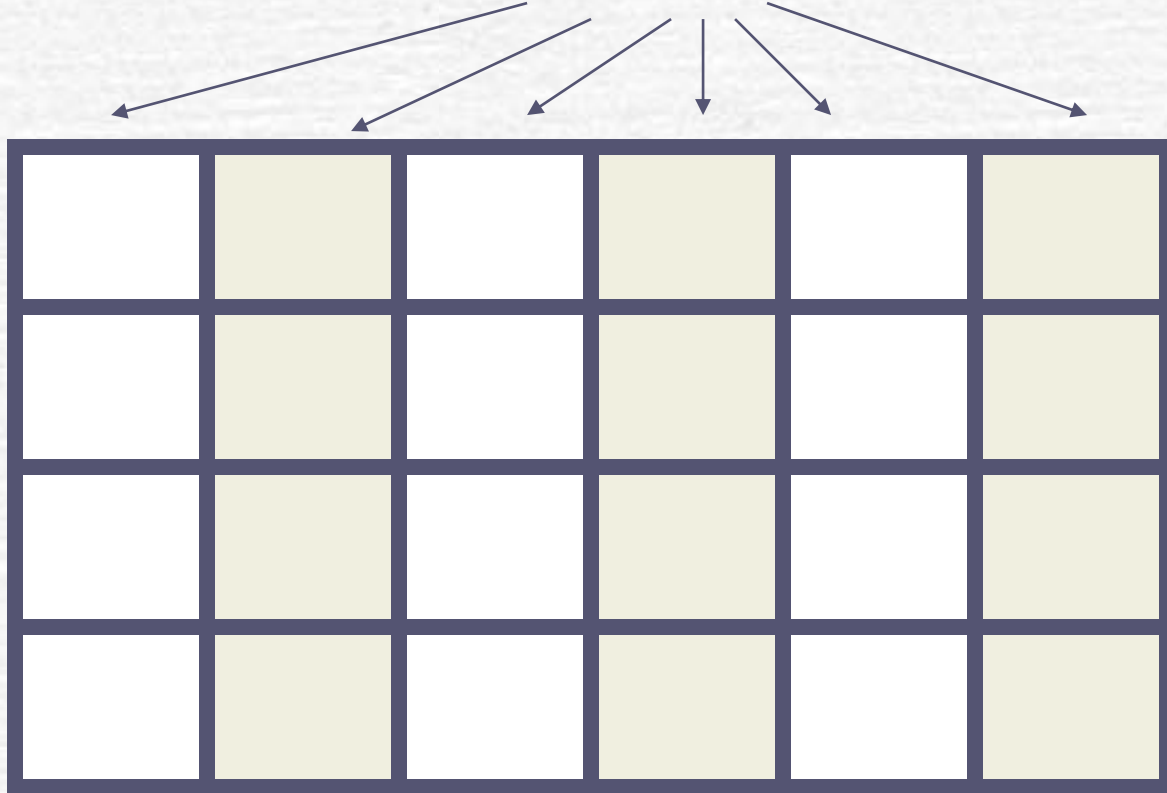
C	D	E	F
I	J	K	L
O	P & Q	R	
U	V	W	X

## Structure of an HTML Table




A diagram illustrating the structure of an HTML table. It consists of a 4x6 grid of 24 empty cells, representing a table with 4 rows and 6 columns. The grid is composed of dark blue borders forming a 4x6 array of squares.

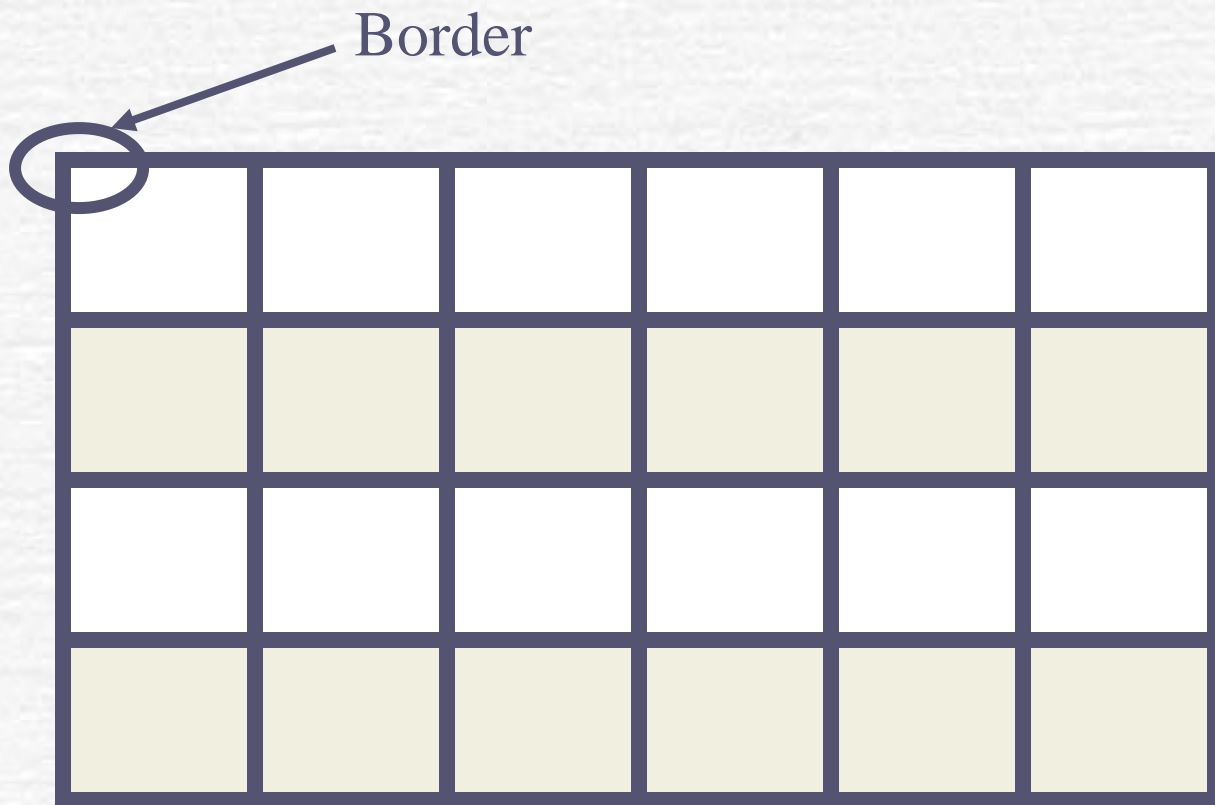

# Columns



Rows

Cells	Cells	Cells	Cells	Cells	Cells
Cells	Cells	Cells	Cells	Cells	Cells
Cells	Cells	Cells	Cells	Cells	Cells
Cells	Cells	Cells	Cells	Cells	Cells



## Caption


Table header

Control width of each column


## Control Height of each Row


## Border


# Border


## Border


## Border

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

Column span



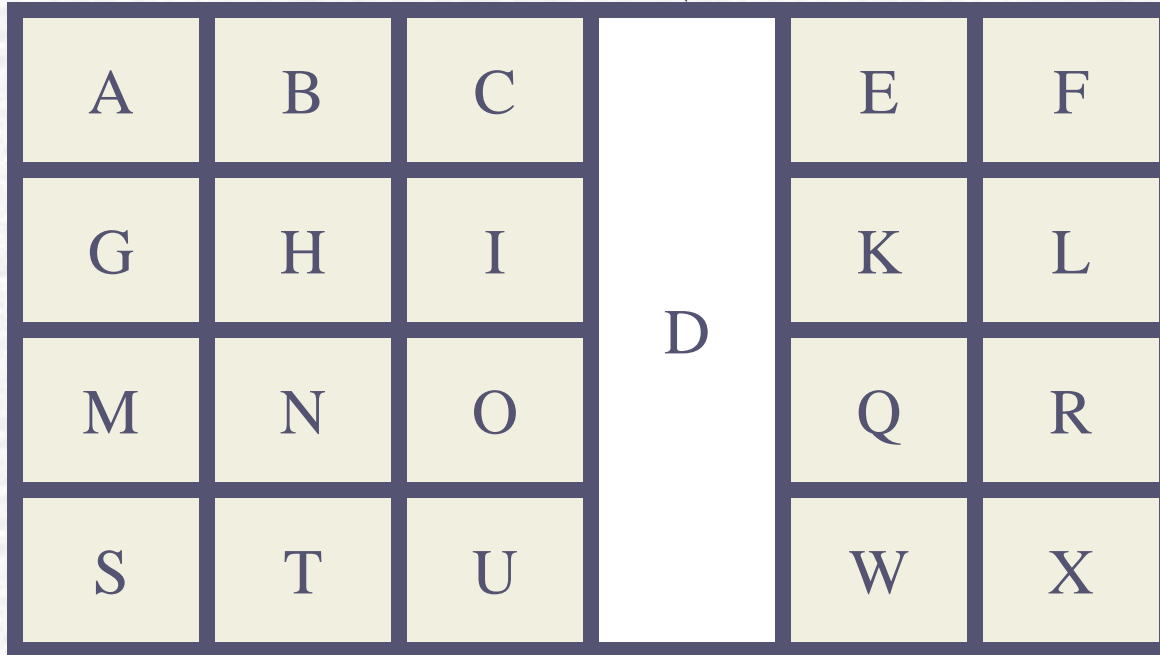
A&B		C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	X

Column span

A&B					C	D	E	F
G	H	I	J	K	L			
M	N	O	P	Q	R			
S	T							

Column span

Row span



A	B	C	D	E	F
G	H	I		K	L
M	N	O		Q	R
S	T	U		W	X

Row span

A	B	C	D	E	F
G	H	I		K	L
M	N	O		Q	
S	T	U		W	X

Row span

Row and Column span

A	B	C			D	E
F	G	C			H	I
M	N	C			Q	L
S	T	U	V	W	X	

Pop Quiz ----- How many Columns? How many Rows?

A	B	C	D	E	F
G	H	I		J	R
L	M			K	
N	O	P		Q	

Answer = 6 Columns

A	B	C	D	E	F
G	H	I	D	J	R
L	M			K	
N	O	P		Q	

Answer = 4 Rows

A	B	C	D	E	F
G	H	I		J	R
L	M			K	
N	O	P		Q	

Answer = 6 Columns and 4 Rows

A	B	C	D	E	F
G	H	I		J	R
L	M			K	
N	O	P		Q	

## Pop Quiz # 2

How many Columns? How many Rows?

A	B	C	D	E	
G	H	I		J	R
	M		K		
N	O	P	Q		
			S		

Answer: Columns = 6  
Rows = 5

## Pop Quiz # 2

How many Columns? How many Rows?

A	B	C	D	E	
G	H	I		J	R
	M		K		
N	O	P	Q		
			S		

Table 1


Table 2


Table 1


Table 2



Table 3

Table 1 →

	<table border="1"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>								

← Table 2

Table #2 is inside Table#1

Show me how !!




# Table Tags



Opening Tag

Closing Tag

Tag to create the Table:

Tag to create Caption:

Optional

Tag to create each Row:

Tag to create Header Row:

Optional

Tag to create each Cell:


# Table Tags



Opening Tag

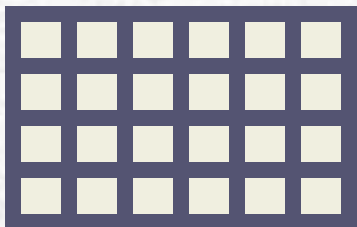
Closing Tag

Tag to create the Table:

Tag to create each Row:

Tag to create each Cell:

Required  
In EVERY  
Table



# Table Tags



Opening Tag

Closing Tag

Tag to create the Table:

`<TABLE>`

`</TABLE>`

Tag to create Caption:

`<CAPTION>`

`</CAPTION>`

Tag to create each Row:

`<TR>`

`</TR>`

Tag to create Header Row:

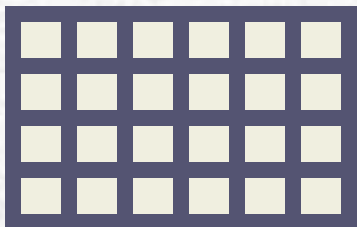
`<TH>`

`</TH>`

Tag to create each Cell:

`<TD>`

`</TD>`



# Table Tags



Opening Tag

Closing Tag

Tag to create the Table:

`<TABLE>`

`</TABLE>`

Tag to create Caption:

`<CAPTION>`

`</CAPTION>`

Tag to create each Row:

`<TR>`

`</TR>`

Tag to create Header Row:

`<TH>`

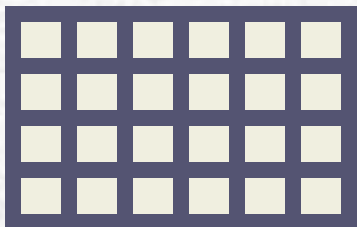
`</TH>`

Tag to create each Cell:

`<TD>`

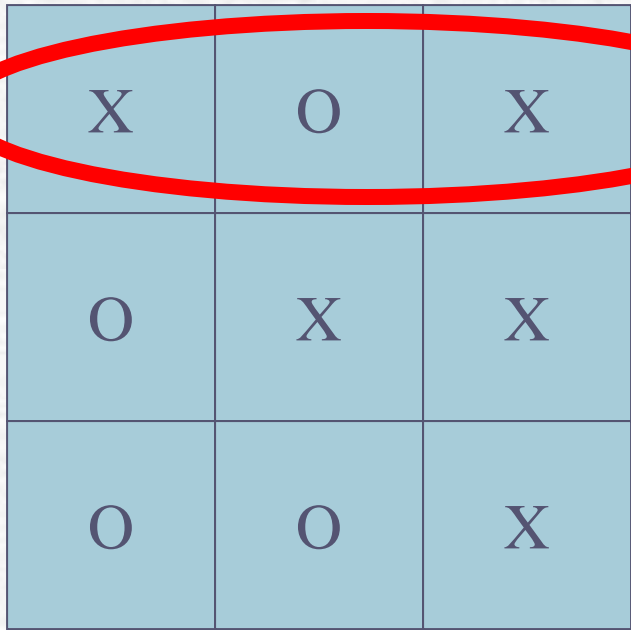
`</TD>`

**Nested**



X	O	X
O	X	X
O	O	X

```
<html>  
<head>  
  <title>table one</title>  
</head>  
<body>  
  
  </body>  
</html>
```



X	O	X
O	X	X
O	O	X

<table>

</table>

X	O	X
O	X	X
O	O	X

<table>  
<tr>  
  
</tr>

</table>

X	O	X
O	X	X
O	O	X

```
<table>  
  <tr>  
  </tr>  
  <tr>  
  </tr>
```

```
</table>
```

X	O	X
O	X	X
O	O	X

```
<table>  
  <tr>  
  </tr>  
  
  <tr>  
  </tr>  
  
  <tr>  
  </tr>  
</table>
```

X	O	X
O	X	X
O	O	X

```
<table>  
<tr>  
<td>  
</td>  
</tr>  
  
</table>
```

X	O	X
O	X	X
O	O	X

```
<table>  
  <tr>  
    <td>X  
  </td>  
  </tr>  
  
  <tr>  
    <td>O  
  </td>  
    <td>X  
  </td>  
    <td>X  
  </td>  
  </tr>  
  
  <tr>  
    <td>O  
  </td>  
    <td>O  
  </td>  
    <td>X  
  </td>  
  </tr>  
</table>
```

X	O	X
O	X	X
O	O	X

```
<table>  
  <tr>  
    <td>X </td>  
  
  </tr>  
  
</table>
```

X	O	X
O	X	X
O	O	X

```
<table>  
<tr>  
<td>X </td>  
<td>O</td>  
</tr>  
</table>
```

X	O	X
O	X	X
O	O	X

```
<table>  
<tr>  
<td>X</td>  
<td>O</td>  
<td>X</td>  
</tr>
```

```
</table>
```

X	O	X
O	X	X
O	O	X

```
<table>  
  <tr>  
    <td>X</td>  
    <td>O</td>  
    <td>X</td>  
  </tr>
```

```
</table>
```

1	X	O	X
2	O	X	X
3	O	O	X

```

<table>
  <tr>
    <td>X</td>
    <td>O</td>
    <td>X</td>
  </tr>
  <tr>
    <td>O</td>
    <td>X</td>
    <td>X</td>
  </tr>
  <tr>
    <td>O</td>
    <td>O</td>
    <td>X</td>
  </tr>
</table>

```

Row 1

Row 2

Row 3

Border

X	O	X
O	X	X
O	O	X

`<table border= "1">`

`<tr>`

`<td>X</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>X</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`</table>`

X	O	X
O	X	X
O	O	X

`<table border= “2”>`

`<tr>`

`<td>X</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>X</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`</table>`

X	O	X
O	X	X
O	O	X

`<table border= “3”>`

`<tr>`

`<td>X</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>X</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`</table>`

X	O	X
---	---	---

O	X	X
---	---	---

O	O	X
---	---	---

`<table border= “0”>`

`<tr>`

`<td>X</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>X</td>`

`<td>X</td>`

`</tr>`

`<tr>`

`<td>O</td>`

`<td>O</td>`

`<td>X</td>`

`</tr>`

`</table>`

X	O	X
O	X	X
O	O	X

`<td align="center">X</td>`

X	O	X
O	X	X
O	O	X

`<td align="right">X</td>`

X	O	X
O	X	X
O	O	X

align="right", "left", "center"

valign="middle"

valign="bottom"

valign="top"

X	O	X
O	X	X
O	O	X

```
<table border="1">
```

```
<tr>
```

```
<td align="center">X</td>
```

```
<td align="center">O</td>
```

```
<td align="center">X</td>
```

```
</tr>
```

```
<tr>
```

```
<td align="center">O</td>
```

```
<td align="center">X</td>
```

```
<td align="center">X</td>
```

```
</tr>
```

```
<tr>
```

```
<td align="center">O</td>
```

```
<td align="center">O</td>
```

```
<td align="center">X</td>
```

```
</tr>
```

```
</table>
```

It's  
YOUR  
Turn !



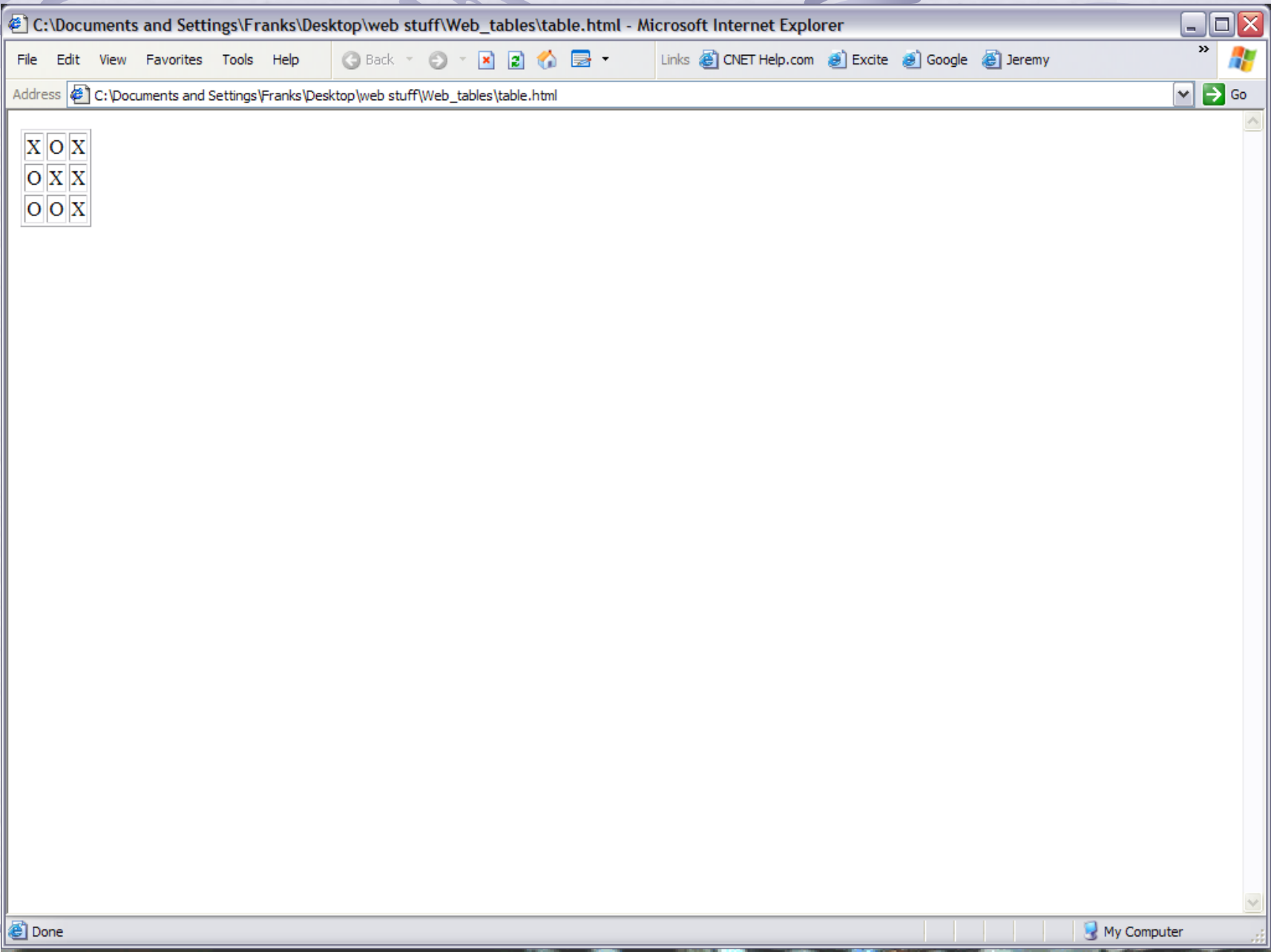


# Using “Notepad++” To create this table

X	O	X
O	X	X
O	O	X



Title = “Table One”  
File name = “table1.html”




C:\Documents and Settings\Franks\Desktop\web stuff\Web\_tables\table.html - Microsoft Internet Explorer


File Edit View Favorites Tools Help Back Forward Home Stop Links CNET Help.com Excite Google Jeremy

Address C:\Documents and Settings\Franks\Desktop\web stuff\Web\_tables\table.html Go

X	O	X
O	X	X
O	O	X



X	O	X
O	X	X
O	O	X



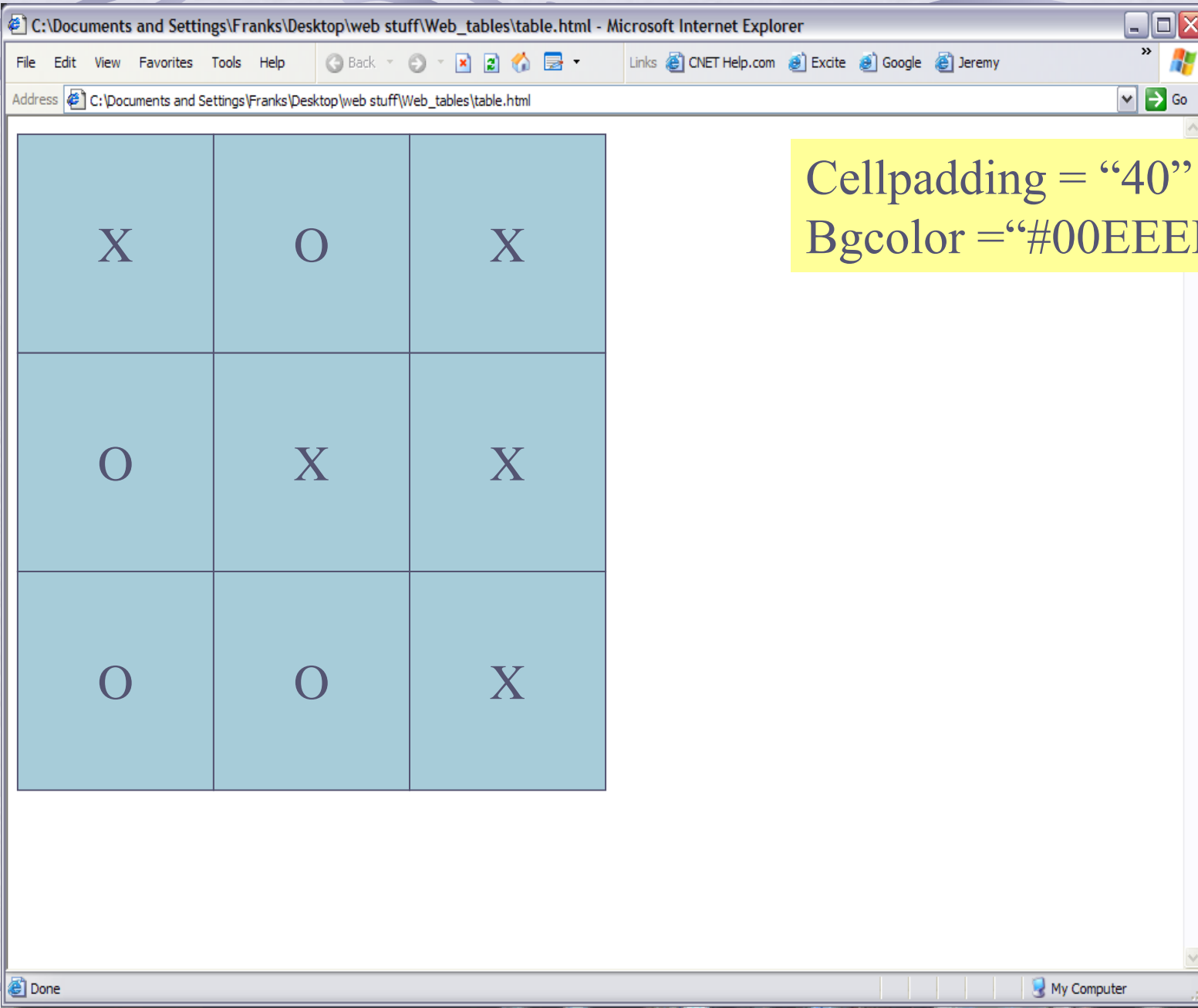
```
<html>
<head>
<title>Table One</title>
</head>
<table border="1">
  <tr>
    <td align="center">X</td>
    <td align="center">O</td>
    <td align="center">X</td>
  </tr>
  <tr>
    <td align="center">O</td>
    <td align="center">X</td>
    <td align="center">X</td>
  </tr>
</table>
```

## Additional Table Options

Width = "pixels" or "%"  
Height = "pixels" or "%"  
Cellpadding = "default 3"  
Cellspacing = "default 3"  
Bgcolor = "#RRGGBB"  
Bordercolor = "#RRGGBB"  
Align = "Left/Right/Center"

```
<table border="1" width="100%" cellpadding="3" cellspacing="3"
  bgcolor="#FFFFFF" align="center">
```

```
<td align="center">X</td>
</tr>
</table>
</body>
</html>
```



Row 1

Colspan = 4

Row 2

Colspan = 4

Row 3

Column 1

Column 2

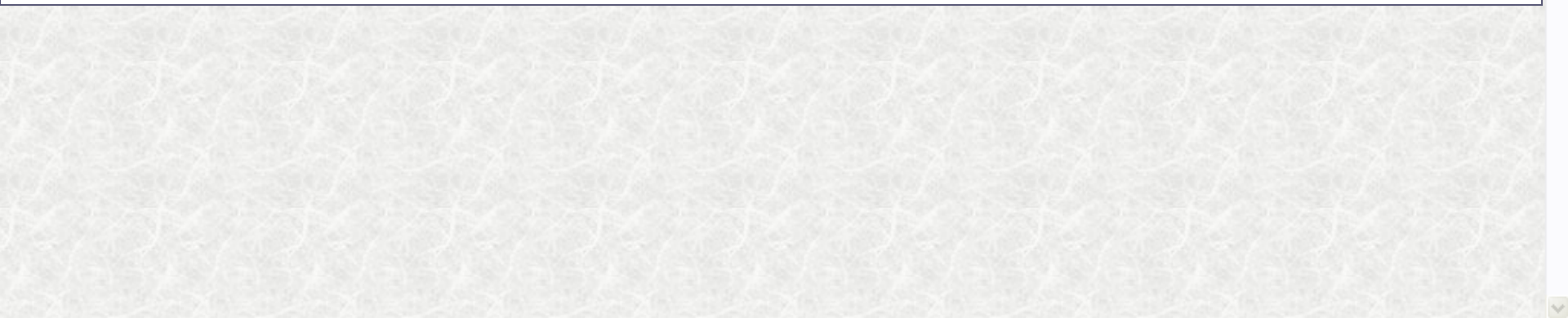
Column 3

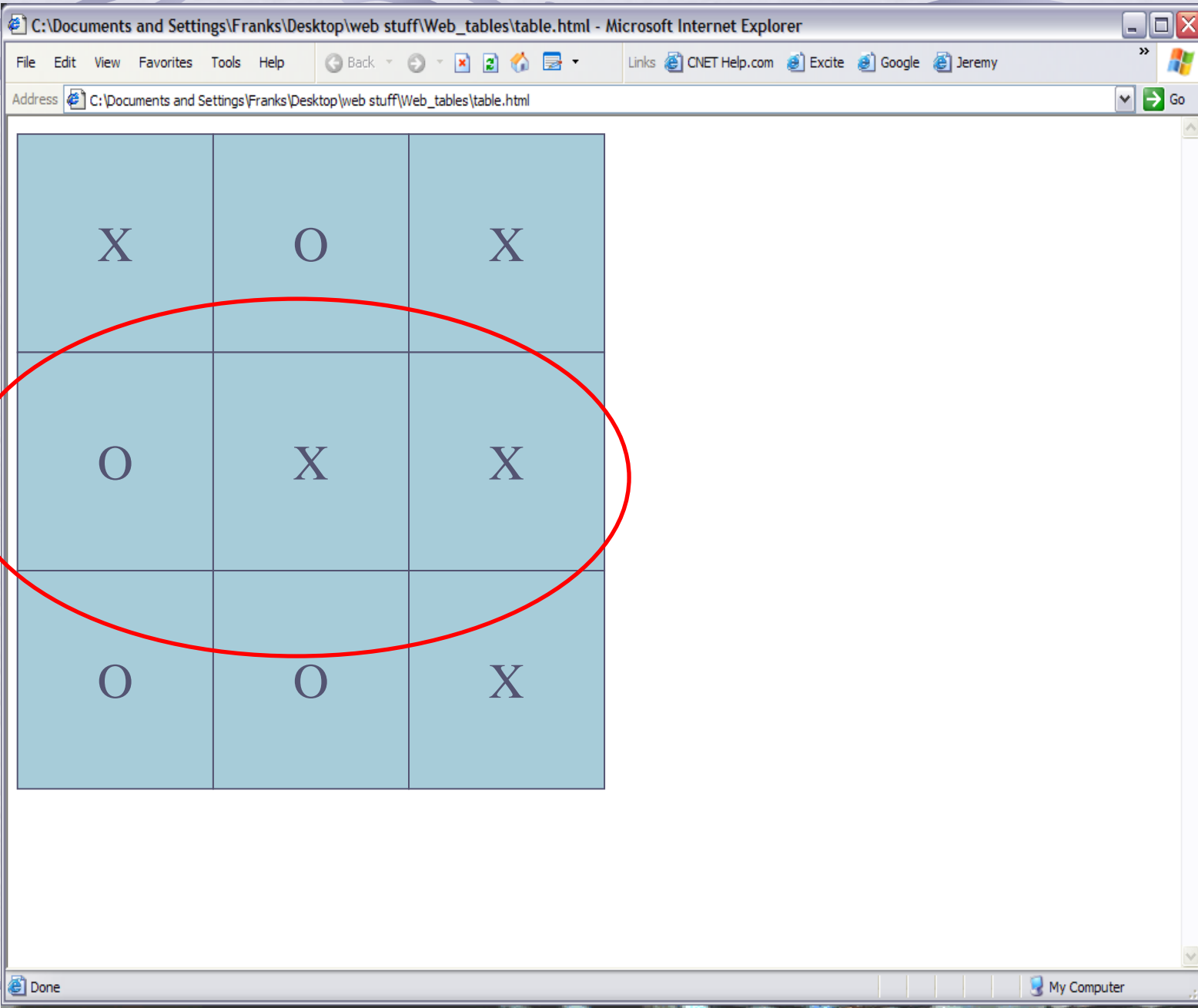
Column 4

Row 4

Colspan = 4







A 3x3 tic-tac-toe grid with a light blue background. The grid contains the following characters:

X	O	X
O		
O	O	X

A red circle is drawn around the middle row, which contains a single 'O' character.

X	O	X
O		
O	O	X

```
<html>
<head>
<title>Table One</title>
</head>
<table border="1">
  <tr>
    <td align="center">X</td>
    <td align="center">O</td>
    <td align="center">X</td>
  </tr>
  <tr>
    <td align="center">O</td>
    <td align="center">X</td>
    <td align="center">X</td>
  </tr>
  <tr>
    <td align="center">O</td>
    <td align="center">O</td>
    <td align="center">X</td>
  </tr>
</table>
</body>
</html>
```

X	O	X
O		
O	O	X

```
<html>
<head>
<title>Table One</title>
</head>
<table border="1">
  <tr>
    <td align="center">X</td>
    <td align="center">O</td>
    <td align="center">X</td>
  </tr>
  <tr>
    <td colspan="3"> O </td>
  </tr>
  <tr>
    <td align="center">O</td>
    <td align="center">O</td>
    <td align="center">X</td>
  </tr>
</table>
</body>
</html>
```

# Aligning Cell Content

- By default, a cell's content are aligned horizontally to the left and vertically in the middle.
- Use `VALIGN=direction` to change the vertical alignment, where "direction" is top, middle, bottom, or baseline
- Use `ALIGN=direction` to change the horizontal alignment where "direction" is left, center, or right

# Controlling Cell Spacing

- Cell spacing is the space *between* cells while cell padding is the space *around* the contents of a cell
- To control both types of spacing, use the `CELLSPACING =n` and `CELLPADDING=n` attributes in the `<TABLE>` tag

# Nesting Tables

- ✔ Create the inner table
- ✔ Create the outer table and determine which cell of the outer table will hold the inner table
- ✔ Test both tables separately to make sure they work
- ✔ Copy the inner table into the cell of the outer table
- ✔ Don't nest too many tables. If you find yourself doing that, find an easier way to lay out your Web page

# Changing a Cell's Color

- To change a cell's color, add the `BGCOLOR="color"` attribute to the `<TD>` tag
- Example:  
`<TD BGCOLOR="blue">`

# Dividing Your Table into Column Groups

- You can divide your table into two kinds of column groups: structural and non-structural.
- Structural column groups control where dividing lines are drawn; Non-structural groups do not
- Both let you format an entire column of cells at once

# Column Groups

- To create structural column groups, type `<COLGROUP SPAN=n>` after the `<TABLE>` tag, where `n` is the number of columns in the group
- To create non-structural column groups, type `<COL SPAN=n>`, where `n` is the number of columns in the group

# Dividing Table into Horizontal Sections

- You can also create a horizontal section consisting of one or more rows. This allows you to format the rows all at once
- To create a horizontal section, type `<THEAD>`, `<TBODY>`, or `<TFOOT>` before the first `<TR>` tag of the section
- Netscape does not support these tags

# Controlling Line Breaks

- Unless you specify otherwise a browser will divide the lines in a cell as it sees fit.
- The NOWRAP attribute placed within the `<TD>` tag forces the browser to keep all the text in a cell on one line
- Example:
  - `<TD NOWRAP>Washington, D.C.`