topicSeven

HTML Tables

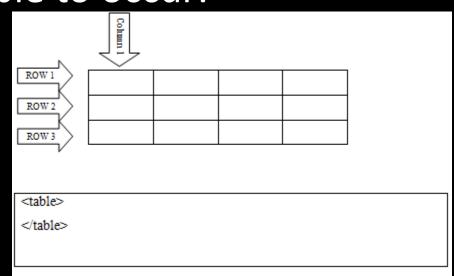
- At the end of this chapter the students should be able to:
 - Understand table format, elements, attributes, width and height.
 - Use colspan and rowspan.
 - Manipulate table to design the web page

- Tables are used on websites for two major purposes.
- The obvious purpose of arranging information in a table whiles the less obvious but more widely used is for the purpose of creating a page layout with the use of hidden tables.
- Using tables to divide the page into different sections is an extremely powerful tool.
- Almost all major sites on the web are using invisible tables to layout the pages

- The most important layout aspects that can be done with tables are:
 - Dividing the page into separate sections:
 - An invisible table is excellent for this purpose.
 - Creating menus:
 - Typically with one color for the header and another for the links following in the next lines.
 - Adding interactive form fields:
 - Typically a gray area containing a search option.
 - Creating fast loading headers for the page:
 - A colored table with a text on it loads like a bullet compared to even a small banner.
 - Easy alignment of images that have been cut into smaller pieces.
 - A simple way to allow text to be written in two or more columns next to each other.

- The importance of using tables for these layout purposes can't be overrated.
- However there are a few things to keep in mind when doing so.
- Most important is, that the content of a table is not shown until the entire table is loaded.
- If you have extremely long pages, you should divide it into two or more tables thus allowing the user to start reading the upper content while the rest of the page is loading

- Tables are defined with the tag.
- It consists of row and column.
- To insert a table on your page you simply add these tags where you want the table to occur:



- To add rows to your table use the
 and
 tags.
- It doesn't make sense to write the above lines in itself, because you can't write content outside of table cells.
- If you do write things outside of cells it will appear right above the table

Inserting Column

 You can divide rows into columns with and

```
This is row one, left side.

This is row one, right side.

This is row two, left side.

This is row two, left side.

This is row two, right side.

This is row two, right side.
```

Result:

ı	This is row one, left side.	This is row one, right side.
ı	This is row two, left side.	This is row two, right side.

Property	Description
align= left center right	left align table center table right align table
background=filename	image inserted behind the table
bgcolor=#rrggbb	background color
border=n	border thickness
bordercolor=#rrggbb	border color
bordercolordark=#rrggbb	border shadow
cellpadding=n	distance between cell and content
cellspacing=n	space between cells
nowrap	protects agains linebreaks, even though the content might be wider than the browser window.
frame= void, above, below, lhs, rhs, hsides, vsides, box	removes all outer borders shows border on top of table shows border on bottom of table shows border on left side of table shows border on right side of table shows border on both horizontal sides shows border on both vertical sides shows border on all sides of table
valign= top bottom	aligns content to top of cells aligns content to bottom of cells
width= n,n n,n%	minimum width of table in pixels minimum width in percentage of window size

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These settings can be added to both and tags.

PROPERTY	DESCRIPTION
align= left right center	aligns content to the left of cells aligns content to the right of cells aligns content to the center of the cells
background=filename	sets a background image for the cells
bgcolor=#rrggbb	sets a background color for the cells
bordercolor=#rrggbb	sets color for the border of cells
bordercolordark=#rrggbb	sets color for the border shadow of cells
valign= top middle bottom	aligns to the top of cells aligns to the middle of the cells aligns to the bottom of cells
width= n n%	specify a minimum width for the cells in pixels specify a minimum width for the cells in percent of the table width
height= n n%	minimum height of cells in pixels minimum height of cells in percentage of table height

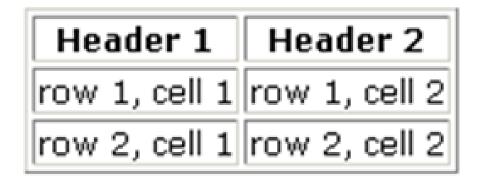
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 $T \hbox{hese settings are only valid for tags.}$

PROPERTY	DESCRIPTION
colspan=n	number of columns a cell should span
	protects agains linebreaks, even though the content of a cell might be wider than the browser window
rowspan=n	number of rows a cell should span

- If you do not specify a border attribute, the table will be displayed without borders.
- Sometimes this can be useful, but most of the time, we want the borders to show.
- To display a table with borders, specify the border attribute:

```
Header 1
Header 2
<1r>
row 1, cell 1
row 1, cell 2
row 2, cell 1
row 2, cell 2
```



Header information in a table is defined with the tag. All major browsers will display the text in the element as bold and centered.

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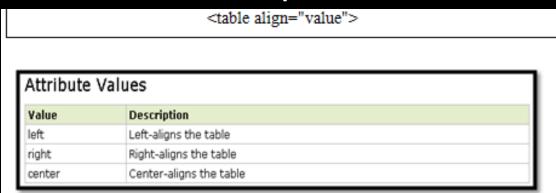
- The width attribute specifies the width of a table.
- If the width attribute is not set, a table takes up the space it needs to display the table data.
- It can be either in pixel or percentage.
- To display a table with specified width, specify the width attribute

```
>
Month
Savings
>
January
$100
>
February
$80
</table
```

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Centering a Table on the Page

- The align attribute specifies the alignment of a table according to surrounding text.
- Normally, an HTML table will have a break before and after it.
- The align attribute allows other HTML elements to wrap around the table.



```
Month
Savings
>
January
$100
>
February
$80
```

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Combining Tables

- Several tables can be combined together to create a more systematic page arrangement.
- Its likes creating a table in a table:

Aligning a Cell's Contents

 To align cell contents, we must used align attribute within the tags

```
align="right">Align Right

align="center">Align Center
```

- You can also use another alignment command for your cells, the vertical alignment command.
- The vertical alignment commands come in useful if your table cells don't have the same number of lines inside each cell.

Tags	Functions
valign="top"	Aligns contents to the top of the cell.
valign="middle"	Aligns contents halfway between the top and bottom of the cell.
valign="bottom"	Aligns contents to the bottom of the cell.

```
I'm on top! <br />
So i start on top!
I'm in the middle
I start at the bottom.
```

The table looks like this:

I'm aligned to the top! So I start on top!

I'm in the middle.

I start at the bottom.

- Background is a nonstandard attribute supported by Netscape Navigator (NN), Microsoft Internet Explorer (MSIE), and Web TV.
- The value is the URL of the background image.
- If the image dimensions are smaller than the table dimensions and there is enough space in the table, the image will tile.

- Browsers vary in handling table backgrounds.
- The results will not always be what you had anticipated.
- MSIE places background images behind the entire table.
- Netscape Navigator 4.x tries to place the background image into each table cell.
- If BACKGROUND and BGCOLOR are both coded with appropriate values the BACKGROUND will take precedence if the image can load.

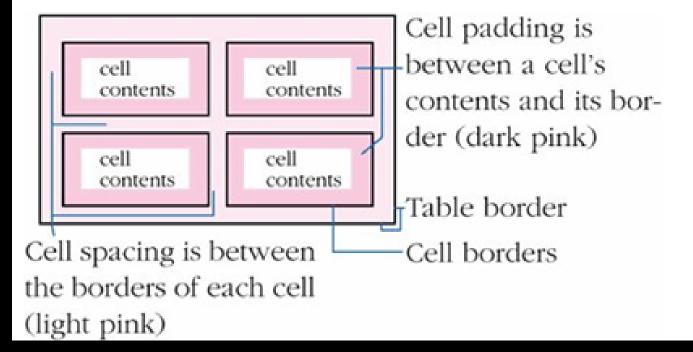
- If for some reason the image fails to load, the browser will use the value of BGCOLOR.
- You must not to get carried away with background images in tables.
- Rarely are they effective and download time increases with the use of images.
- Sometimes users will not wait for images to download

- If you have to code BACKGROUND for a table try to use a very subtle image, such as a watermark.
- Tables with background images are often difficult to read.

Controlling the Space

- The space in the table can be control using the cellpadding and cellspacing attribute.
- Think of cellpadding as the width of the inside cell borders for the table cells.
- It is an attribute of the element which
 is set for the entire table in the table tag.
- Cellspacing, on the other hand, refers to how space is left between each cell wall in a table.
- If you want no spaces at all, you MUST set cellspacing="0", otherwise the default is cellspacing="1", even if you don't even mention cellspacing

All cells have a cellpadding of "18" I left the middle cell empty, except for a space.
I also started the first sentence of this cell with a space.



Spanning a Cell across Columns and Rows

- These two features, Colspan and Rowspan, allow you to extend columns and rows across multiple other columns and rows when they would usually be forced to stop.
- In this section you will learn how to extend columns and rows.



Colspan

- Column Span extends cells on a horizontal row (left and right).
- The line to add for Column Span is colspan="X".
- This line adds onto the cell so the final result would look like this

.

- The "X" in the line, is replaced with the number of cells it extends past.
- So for example, if it is covering the distance that of 3 cells above or below it, the line would look like

- Row Span meanwhile extends cells on a vertical row (up and down).
- The line to add for Row Span is rowspan="x".
- This line adds onto the cell so the final result would look like this

.

- The "X" in the line, is replaced with the number of cells it extends.
- So for example, if it is covering the distance that of 3 cells left or right of it, the line would look like .

<TABLE BORDER="1">

<TR> <TD> Cell 1 </TD> <TD> Cell 2

</TD> </TR>

<TR> <TD COLSPAN="2"> Cell 3 </TD>

</TR>

</TABLE>

</BODY>....

My Homepage - Microsoft Internet Explorer

Cell 1 Cell 2

Cell 3

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....<BODY>

<TABLE BORDER="1">

<TR> <TD ROWSPAN="2"> Cell 1 </TD>

3 </TD> </TR>

</TABLE>

</BODY>....

My Homepage - Microsoft Internet Explorer

Cell 1 Cell 2 Cell 3

```
Normal_Table.html - Notepad
File Edit Format View Help
< html>
<head><title>Table</title></head>
<body>
No.
Name
Age
1.
>1.

Shahrul Nizam

23
2.
Ahmad Hafiz
27
Table - Microsoft Internet Explorer - [Working Offline]
```

E Done

</body>

</html>

File Edit View Favorites Tools Help Back Favorites Favo

🤰 My Computer

Links »

Age

💹 My Computer

>>

```
colspan.html - Notepad
File Edit Format View Help
<htm1>
<head><title>Table</title></head>
<body>
No.
Name
Age
Colspan 3 column
2.
Colspan 2 column
Table - Microsoft Internet Explorer - [Working Offline]
Favorites Tools Help
                                   Search
                                       Favorites
</body>
</html>
                  Address 🥝 yClass\IMD 152 INTERNET RESOURCES\Contoh\Table\colspan.html 💌
```

No.

Done

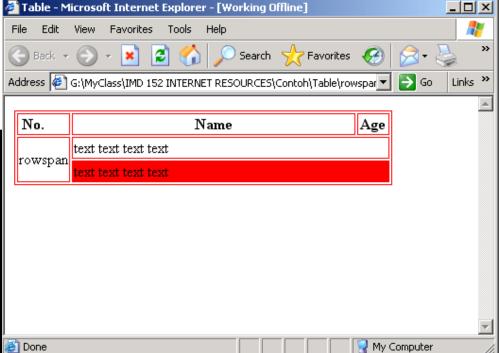
Colspan 3 column

Colspan 2 column

Name

```
rowspan.html - Notepad
File Edit Format View Help
<html>
<head><title>Table</title></head>
<body>
No.
Name
Age
rowspan
text text text text
text text text text
                  Table - Microsoft Internet Explorer - [Working Offline]
```

</body> </html>



- Before you create a complicated table, it's really important to have a vision of what you're about to construct.
- You should know how many rows and columns you need, how big these should be, and where each of the items on your page should go.



Design your page on a piece of paper with a pen



Figure out how many rows and columns you will need. Identify any rows or columns that will span more than one space.



If necessary, you can nest one table inside another. However, you should keep nesting to a minimum as it tends to slow browsers download sometimes causes them to break down altogether.



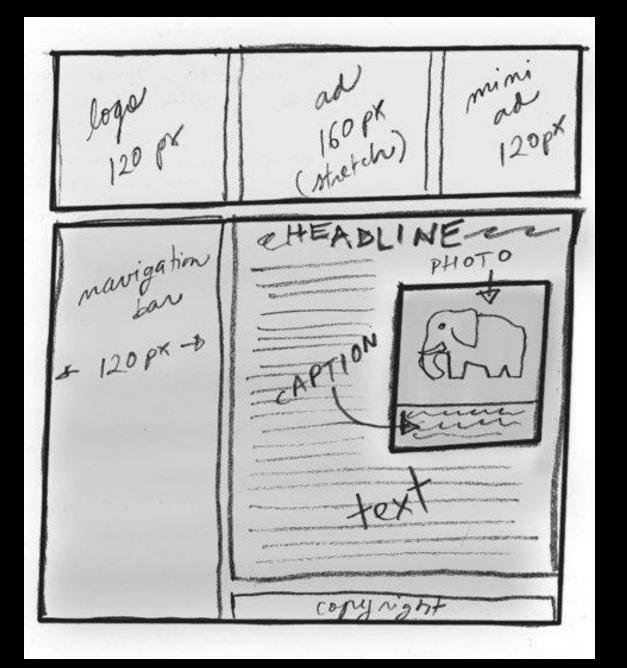
If you're going to make a static, fixed design, measure how wide your table should be (the standard is around 600 pixels) and then decide how many pixels wide each column should be. For liquid designs, use percentages.



Create the skeleton of your page with just the table tags but little or no content.



Finally, create or insert the content.



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