Web Authoring

- 21.1 Web Development Layers
- 21.2 Create a Web Page
- 21.3 Use Stylesheets
- 21.4 Test and Publish a Website

Web Authoring

Web Development Layers

Presentation Layer

To format whole web page(s) or individual elements. Stylesheet could include page layouts using Div Tags and text/table formatting properties.

The presentation layer is in the CSS.

Content layer:

To enter the content (Text, images, audio, video etc) into a web page and to create suitable hyperlinks.

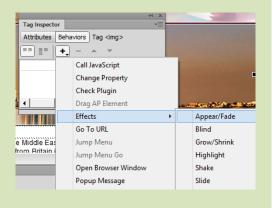
The Content layer is in the HTML.



Behaviour layer

To enter scripting language to a web page or an individual element.

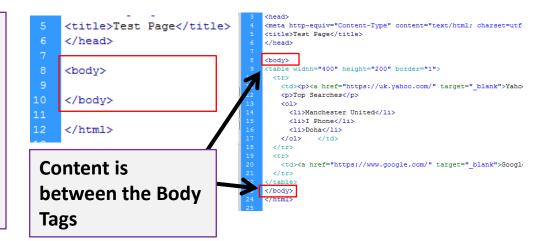
- Image Effects
- Pop up message



Web Authoring

HTML (Hyper Text Markup Language) – Content Layer

- HTML is used to develop the content layer of the website.
- The HTML file extension is .HTM or HTML
- HTML can be written in web authoring or text editing software



CSS (Cascading Style Sheet) – Presentation Layer

- Styles can be created separately or embedded into HTML.
- The CSS file extension is .CSS
- Style Sheets could be attached to a number of webpages to give a consistent layout and appearance.

```
font-family: Arial, Helvetica, sans-serif;
font-size: 18px;
font-weight: bold;
color: #8Cl031;
font-family: Arial, Helvetica, sans-serif;
font-size: 14px;
font-weight: bold;
color: #8000;
font-size: 12px;
color: #8000;
```

```
No Style Sheet

No Style Sheet

Style Sheet Attached

Style Sheet Attached

Style Sheet Attached

Style Sheet Attached
```

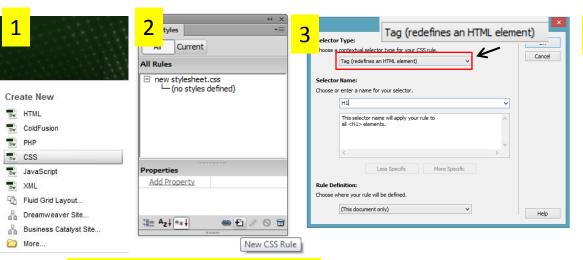
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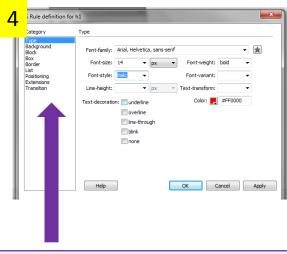
Creating CSS for Text Styles

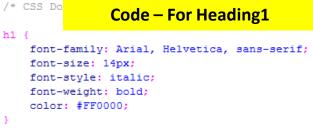
Tip: If you have been giving the task of creating a CSS then make sure you use the CSS Window.

- 1) Create New CSS and then Save
- 2) Open the CSS Window using this will eliminate mistakes
- 3) Select Tag and then write the name of the tag (H1, H2 etc.)
- 4) Select the properties for Tag (Size, colour etc.)

Tip: Write all colours in 6 hexadecimal digits e.g. #000000







CSS Styles

All Current

All Rules

In new stylesheet.css

Light high stylesheet.css

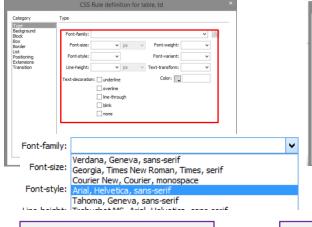
Tip: You can Align the style in Block If you are writing the code the center alignment is spelt at center.

Writing Centre will not work.

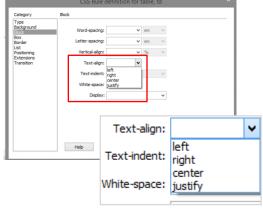
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CSS (Commonly Used Windows)

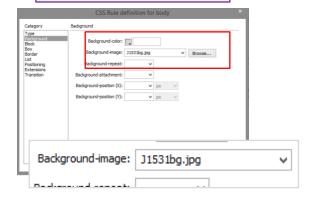




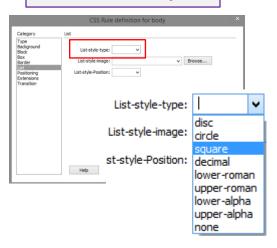
Block: Alignment



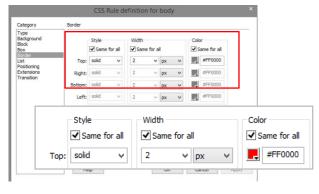
Background



List: Bullet Style



Border: Internal/External Border

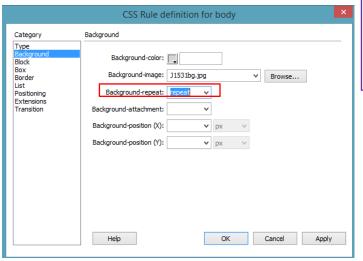


Box: Format Table

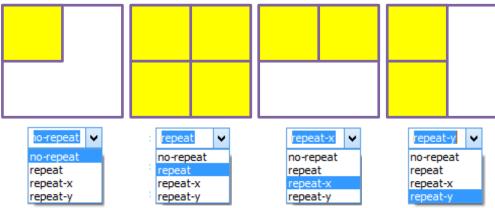
		CSS Rule	defin	ition	for boo	ly					×			
Category	Box													
Type Background Block	Width:	200	v px	~	Float:			v						
Box Border	Height:	400	v px	~	Clear:			~						
List Positioning Extensions	Padding	Same for all			Margin	✓ Same for all								
Transition	Top:	10 🗸	px	~	Тор:	2	~	рх	~					
	Right:	5 v	рх	~	Right:	2	٧	рк	~					
	Bottom:	10 v	px	~	Bottom:	2	V	рк	~					
	Left:	5 v	px	~	Left:	2	~	рк	~					
Width:	200		p	х	٧		Flo	at:				~		
Height:	400 v p			х	٧	Clear:				~				
-Padding						-N	1argi	in-						
	Same	e for al							√ Sa	me	for a	all		
Top:	10 v px			~		To	p:	2		¥	рх	٧		
n:-Lt.	:_Lı. F						n:-	LL.	2					

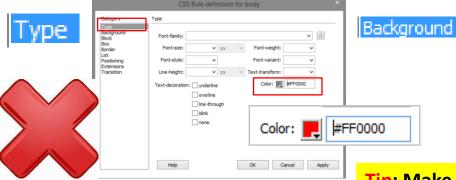
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Body Tag



Body Tag: Is used to set properties for the webpage background. You can either browse and select an image for the background or choose a colour. The background repeat option will allow you to choose how the background image will be laid out.







Tip: Make sure the background colour is not placed in the type window.

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Hexadecimal Colours

		Red	Green	Blue	RGB
	#	FF	FF	FF	White
	#	FF	00	00	Full Red
The closer the number gets	#	00	FF	00	Full Green
to 00 then the colour will become a darker shade.	#	00	00	FF	Full Blue
	#	CO	00	00	¾ ON (75%) Red
	#	80	00	00	½ On (50%) Red
	#	40	00	00	1/4 on (25%) (Darker Shade)
	#	00	00	00	OFF (Black)

Make sure all colour settings are in 6 digits Hexadecimal e.g. #000000

#000060 - (60 has been used in previous mark schemes when requested to set a colour as a dark shade)

Web Authoring

Correcting CSS for Text Styles

```
Incorrect CSS

h1 {
   font-family: arial, Times New Roman, sans-serif;
   font-size: 24px;
   font-style: italic
   fontweight: bold;
   color: redcolour
   text-align: centre;

li {
```

Correct CSS

```
h1 {
    font-family: Arial, Helvetica, sans-serif;
    font-size: 24px;
    font-style: italiq;
    font-weight: bold;
    color: #FF0000;
    text-align: center;
}
li {
```

Tip: If you are asked to correct a CSS then you could either re-write it completely or edit the existing CSS and correct the errors

Stylesheet1

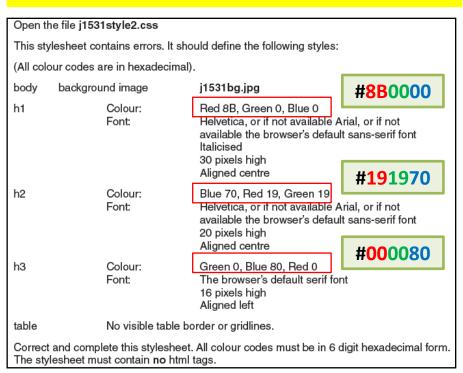
- Font: Arial, Helvetica or default sans-serif font
- Font Size: 24px
- Italic, Bold, Red
- Center Aligned.

Corrected Mistakes

- Times New Roman removed
- Semi Colons (;) in correct place at the end of each part of the code.
- Font-Weight (missing dash)
- Colour now in correct format.
- To close the CSS Tag

Web Authoring

Correcting CSS for Text Styles



Mistakes:

- No brackets to open and close CSS Tags
- No semi-colons to separate parts of the CSS
- Colours in wrong order
- Spelling mistakes
- Unnecessary Text

```
{background-image: url(J1531bg.jpg);
h1 {
    font-family: Helvetica, Arial, sans-serif;
    font-size: 30px;
    font-style: italic;
    color: #8b0000:
    text-align: center;
h2 (font-family: Helvetica, Arial, sans-serif;
    font-size: 20px;
    color: #191970:
                           If you are editing the
    text-align: center;
                           CSS then put the
                           brackets {Start & End }
h3 {
                           in the correct place for
    font-family: serif;
    font-size: 16px;
                           each tag.
    color: #000080;
    text-align: left;
                           Then use the CSS
                           window to enter correct
table, td { border:0;
                           CSS and delete the old
                           (useless) code.
```

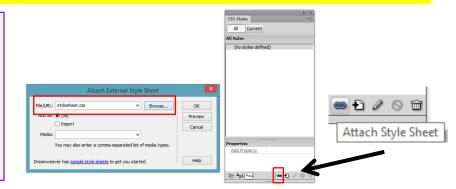
```
background image
                           J1531bg.JPG
               Red 8B, Green 0, Blue 0
           Helvetica, or if not available Arial, if not available any sans-serif font
       Italicised
       30 pixels high
       Aligned centre
               Blue 70, Red 19, Green 19
   Font: Helvetica, or if not available Arial, if not available any sans-serif font
       20 pixels high
       Aligned centre
               Green 0, Blue 80, Red 0
   Font: The browser's default serif font
       16 pixels high
       Aligned left
table
           No visible table border or gridlines.
```

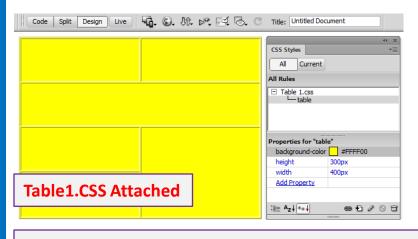
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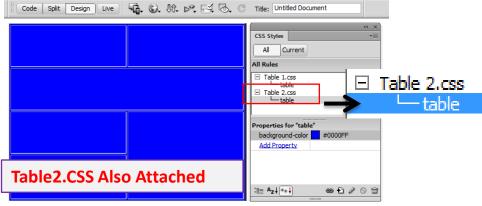
Attaching Style Sheet

Attaching Style Sheet

- Open the CSS Window
- 2. Click on the Attach Style Sheet Icon
- Click on the browse button and select stylesheet.
- Click Ok to Attach Style Sheet.







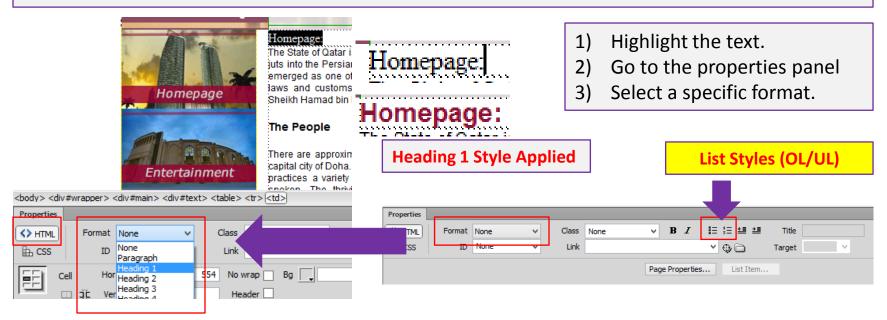
Hierarchy of multiple attached stylesheets

Adding additional stylesheets will over rule elements from previously attached stylesheets. In the example show above once the Table2.CSS is attached then the colour of the table has changed from Yellow (from the Table1.CSS) to Blue (Table2.CSS) however the other elements have stayed the same.

Web Authoring

Applying CSS Text Styles

CSS text styles for heading, paragraphs and list styles can be applied to text in a HTML webpage (in the content layer). The properties panel at the bottom of the page can be used to apply particular text styles. You can also use the code view to apply styles.

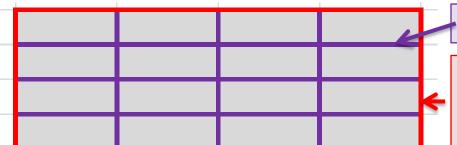


Code View: Remember to open <h1> and close </h1> the tags

<h1>Sony to sell PC unit and cut jobs</h1>

Web Authoring

CSS for Tables



TD: Internal Border (Style, Size, Colour)

Table: External Border (Style, Size, Colour)
Table Colour, Padding, Text Alignment,
Table size, Collapse Border etc

Tip: If you have set internal borders for a table then create the additional TD Tag.

Set the stylesheet so that each table has:

- a yellow background colour
- a width of 80% of the window
- navy blue solid borders

Both TD/Table

- collapsed borders
- external borders of 4 pixels
- internal gridlines of 2 pixels
- cell padding to the top and bottom of 10 pixels
- cell padding to the left and right of 20 pixels
- text centre aligned in all cells.

TD: Internal Border

Solid, 2 Px, Navy Blue (80)

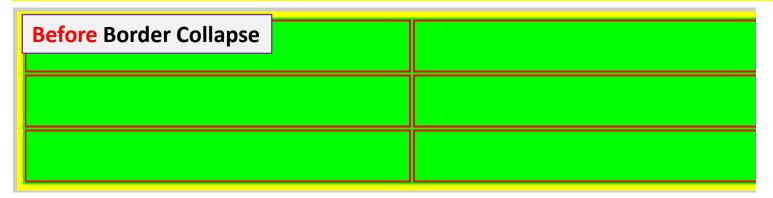
Table: External Border

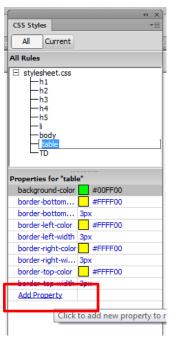
- Solid, 4 Pixels, Navy Blue (80)
- Yellow Background Colour
- 80% Width of the window
- Cell Padding (Top & Bottom 10Px), (Left & Right 20Px)
- Text Align Centre
- Collapse Border

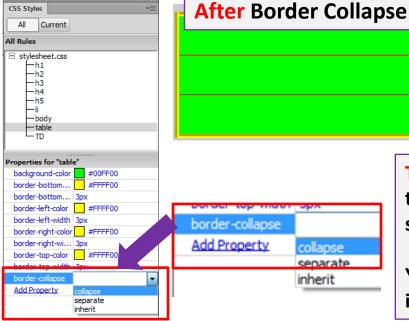
Some tags from table would also work in TD like text alignment or cell padding.

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Border Collapse





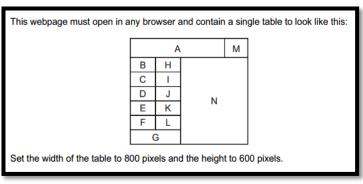


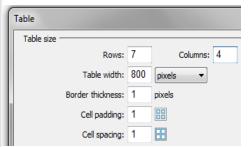
Tip: Border Collapse will make the border into one as you can see in the example.

You can preview the difference in the browser or live view.

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Creating a Table

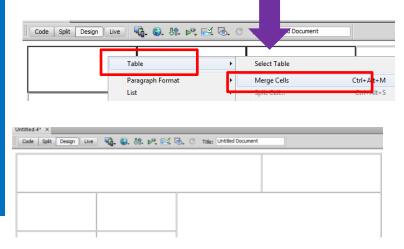




Creating Tables

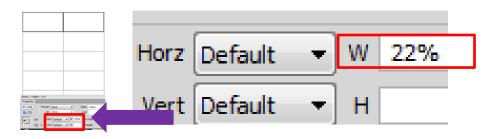
- 1) Insert >> Table
- 2) Work out the number of rows and columns.
- 3) Set border, padding and spacing if necessary.

Merging Cells: Highlight cells to merge.
Right click >> Table >> Merge Cells.



For all cells in rows 2 to 6 in the table, set the width of the:

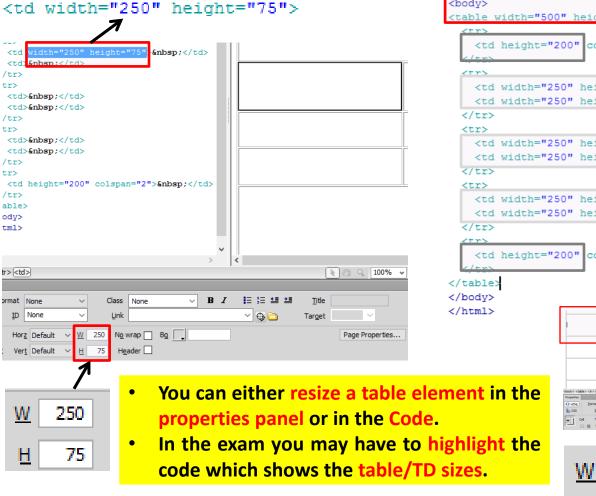
- first (left) column to 22% of the width of the table
- second column to 22% of the width of the table.



Column Width: You can change a column width to the a percentage in the properties panel.

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Setting Table Size



50%

75

Н

Width (W)

Height (H)

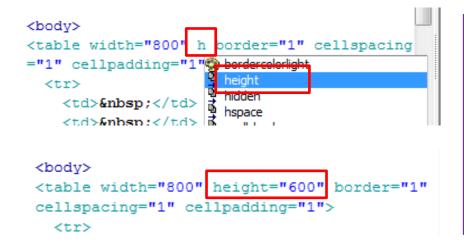
%

also be set as a

Web Authoring

Creating a Table





Tip:

To set the height of the table you must go into the code view.

You would have to click after the table width and then enter Height. You can then set the height.

Web Authoring

Tables are used to structure (layout) the content on a webpage. HTML tags are used to format the table. The table header (Thead), footer (Tfoot) and body (Tfoot) needs to be inserted in this order.

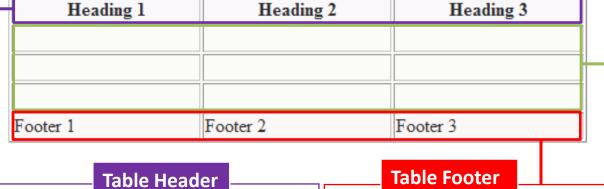
Table HTML Tags:

Table:v

TD: Table Data

THEAD & TH: Header

Tfoot: Footer **Tbody: Body**



```
<body>
<thead>
Heading 1
 Heading 2
 Heading 3
</thead>
```

```
>
 Footer 1
 Footer 2
 Footer 3
```

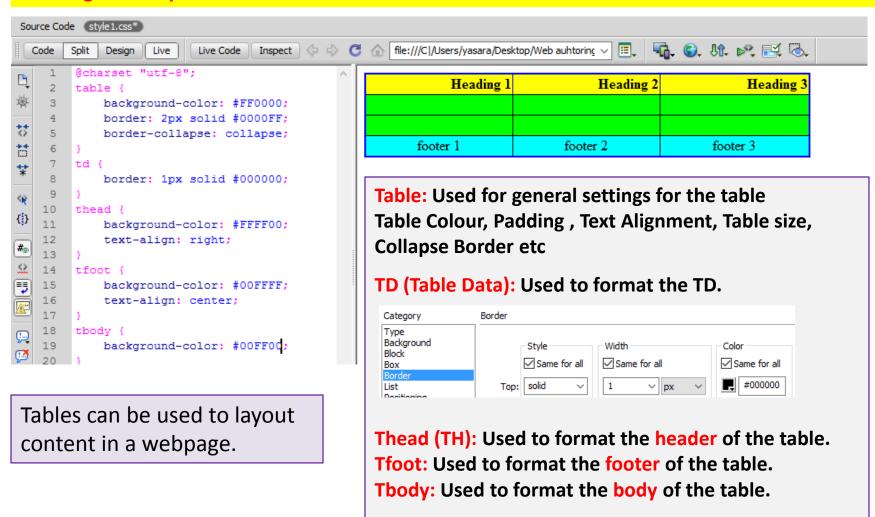
</tfoot>

<tfoot>

Table Body

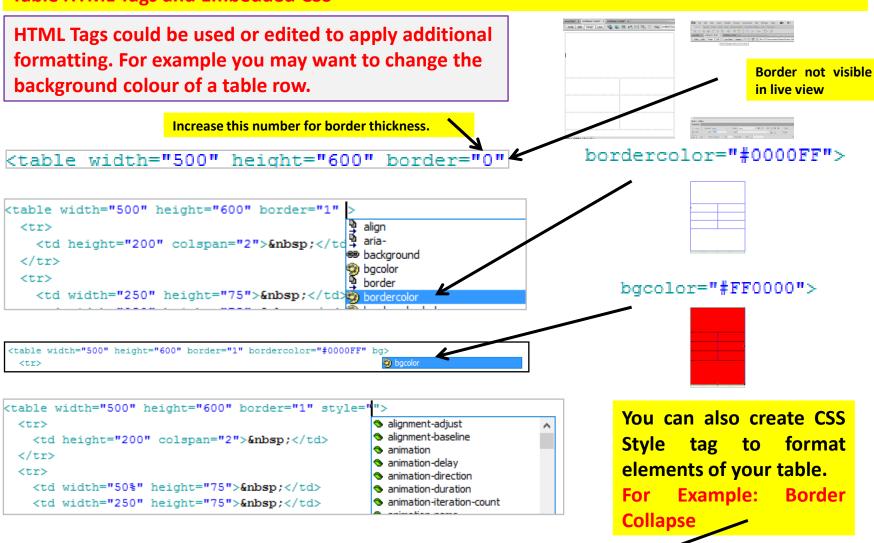
Web Authoring

Creating Table Style Sheet



Web Authoring

Table HTML Tags and Embedded CSS



style="border-collapse:collapse">

Web Authoring

Use of Embedded CSS in HTML

Nov 2015

The table will be centre aligned within the browser.

Create a web page called n15_3_sponsor.htm

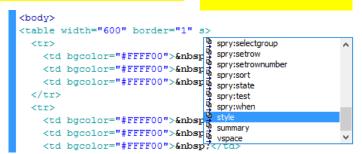
This web page must work in all browsers and will have a table structure as shown below. Table borders and gridlines must be visible.

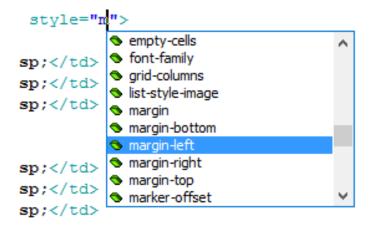
The table will be centre aligned within the browser.

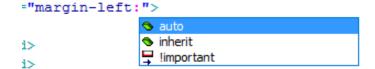
Each table cell is identified with a letter and all dimensions are in pixels.

A 620 × 190					
B	C				
310 × 235	310 × 235				
D	E				
310 × 80	310 × 80				
F	G				
310 × 235	310 × 235				
H	J				
310 × 80	310 × 80				
K 620 × 160					

The letters shown in the table must **not** appear on your final web page.







Web Authoring

Table Alignment

The properties panel can be used to align content (V or H) in a Table Cell (TD).

