Tutorial 04 – HTML Image Map & Table

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Learning Outcomes

1. Image Map
2. HTML table

HTML Image Map (<IMG usemap=…> + <map><area>)

USEMAP attribute (of <IMG>)

- It specifies an image as a client-side image-map (an image with clickable areas).
- It is associated with a <map> element's name attribute
- **Note**: It cannot be used if the <img> tag is a descendant of an <a> or <button> element.

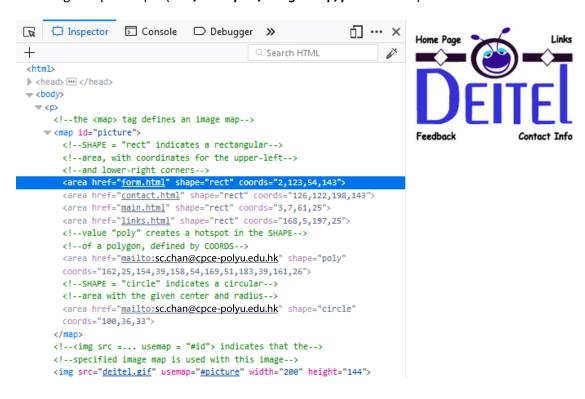| Syntax	Attribute Values
`<img usemap="#mapname">`	#mapname: A hash character ("#") plus the name of the <map> element to use

Map element (<MAP>) and area element (<AREA>)

The <map> tag

- is used to define a client-side image-map.
- required `name` attribute of the `<map>` element is associated with the `<img>`'s usemap attribute and creates a relationship between the image and the map.
- The `<map>` element contains a number of `<area>` elements,
  - <area> tag defines the clickable areas in the image map.

Syntax	Attribute	Value	Description

`<map name="mapname">`
`<area`
`shape="rect"`
`coords="x1,y1,x2,y2"`
`href="url">`
`<area`
`shape="circle"`
`coords="cx,cy,r" ...>`
`<area`
`shape="poly"`
`coords="x1,y1,x2, y2, ...,`
`xn,yn" ...>`
`</map>`
	coords	*coordinates*	Specifies the coordinates of the area

	href	*URL*	Specifies the hyperlink target for the area
	shape	• default • rect • circle • poly	Specifies the shape of the area

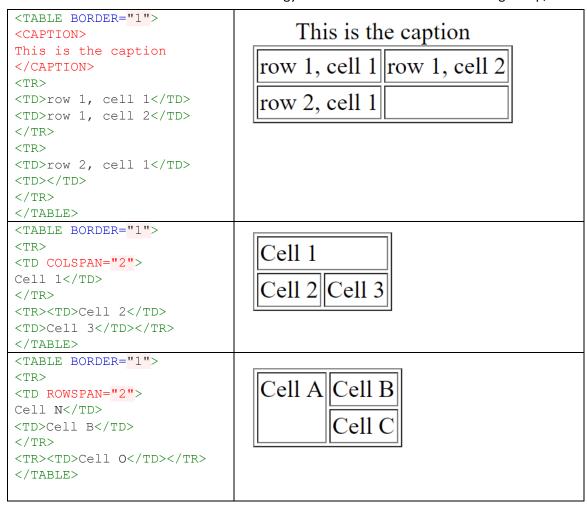- Image Map example (See */Examples/Image Map/picture.html*)

HTML Tables (<TABLE>)

- convenient methods of formatting
- A browser displays a table as a set of rows and columns
- The table is generated using a group of table tags

Tag	Description
`<TABLE></TABLE>`	Beginning and end of the table
`<TR> </TR>`	Table Row; One row of a table.
`<TD> </TD>`	Table Data; One cell in a row.
`<CAPTION> </CAPTION>`	Title of the table written above the table. (optional)
`<TH> </TH>`	Table Head. Heading over a column. (optional)

Table Examples

HTML Code	Browser Output

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

`<TABLE BORDER="1">`
`<TR>`
`<TD>row 1, cell 1</TD>`
`<TD>row 1, cell 2</TD>`
`</TR>`
`<TR>`
`<TD>row 2, cell 1</TD>`
`<TD>row 2, cell 2</TD>`
`</TR>`
`</TABLE>`
	row 1, cell 1 row 1, cell 2
	row 2, cell 1 row 2, cell 2

`<TABLE BORDER="1">`
`<TR>`
`<TH>Heading 1</TH>`
`<TH>Heading 2</TH>`
`</TR>`
`<TR>`
`<TD>row 1, cell 1</TD>`
`<TD>row 1, cell 2</TD>`
`</TR>`
`<TR>`
`<TD>row 2, cell 1</TD>`
`<TD>row 2, cell 2</TD>`
`</TR>`
`</TABLE>`
	Heading 1 **Heading 2**
	row 1, cell 1 row 1, cell 2
	row 2, cell 1 row 2, cell 2

``` <TABLE BORDER="1"> <CAPTION> This is the caption </CAPTION> <TR> <TD>row 1, cell 1</TD> <TD>row 1, cell 2</TD> </TR> <TR> <TD>row 2, cell 1</TD> <TD></TD> </TR> </TABLE> ```	This is the caption row 1, cell 1 | row 1, cell 2 row 2, cell 1 |
``` <TABLE BORDER="1"> <TR> <TD COLSPAN="2"> Cell 1</TD> </TR> <TR><TD>Cell 2</TD> <TD>Cell 3</TD></TR> </TABLE> ```	Cell 1 Cell 2 | Cell 3
``` <TABLE BORDER="1"> <TR> <TD ROWSPAN="2"> Cell N</TD> <TD>Cell B</TD> </TR> <TR><TD>Cell O</TD></TR> </TABLE> ```	Cell A | Cell B | Cell C

Taking HTML Further

- Building HTML skills
- Dynamic HTML (DHTML) and programming languages
- HTML editors
- Resources to Help Develop Web-building Skills (Books / Web sites / Software / Help files)

DHTML and Programming Languages

- HTML and most browsers can run small program segments (scripts) as part of displaying a Web page
  - JavaScript
- Program segments can be created that are executed by the Web server and which customize the Web page before it is sent to the browser
  - Perl, Java Servlet, JSP, PHP

HTML Table Exercise

By using the HTML table and the given text file, create your own weekly schedule with the formatting as specified below:

- The table should have a visible border.
- Other formatting like title, heading text and background colour (Lightgrey) are bonus exercise.
- An example of the HTML page should render as follows:

HKCC Timetable 2021-22 Semester 2

Time	Monday	Tuesday	Wednesday	Thursday	Friday
0830-0900					
0900-0930	SEHH1001 101(L) HHB-101		SEHH1001 101(T) HHB-201		
0930-1000					
1000-1030					
1030-1100					
1100-1130					
1130-1200					
1200-1230					
1230-1300					SEHH1002 102(T) WK-202
1300-1330					
1330-1400					
1400-1430					
1430-1500		SEHH1002 102(L) WK-102			
1500-1530					
1530-1600					
1600-1630					
1630-1700					
1700-1730					
1730-1800					
1800-1830					