Table-Based Web Pages

Web Authoring and Design

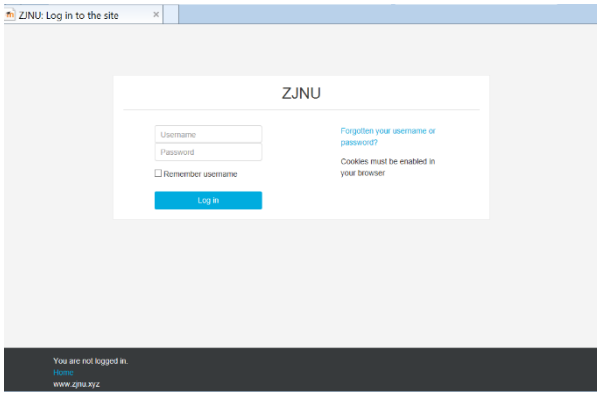
Benjamin Kenwright

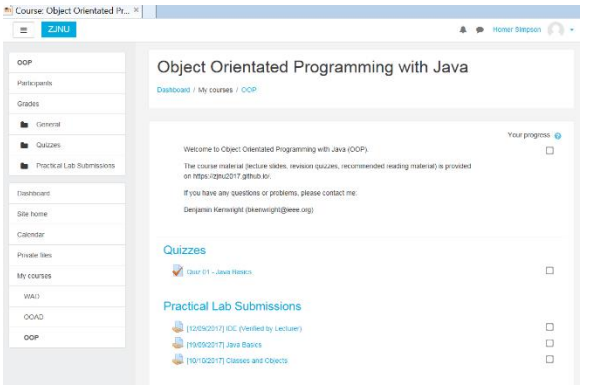
Outline

- What do we mean by Table-Based Web Sites?
- Review Table Tags/Structure
- Tips/Debugging/Applications
- Summary
- Review/Discussion

Submissions/Quizzes/GitHub

- Course material (Public)
  - https://zjnu2017.github.io/
- Submissions/Quizzes (Graded/Private)
  - www.zjnu.xyz
  - (Login – Student No)
  - Password Emailed

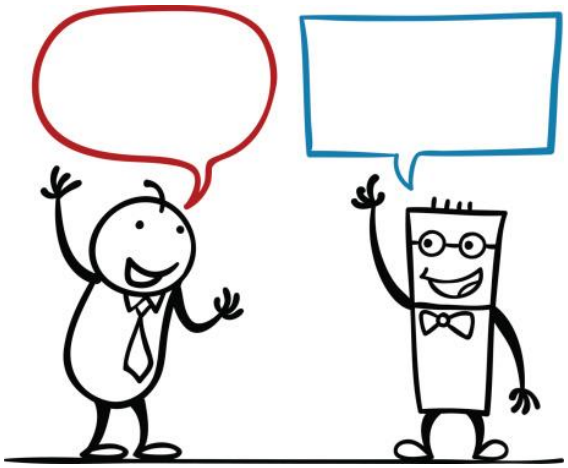




Activity

- Show examples of students Github websites

  (5-10 Minutes)



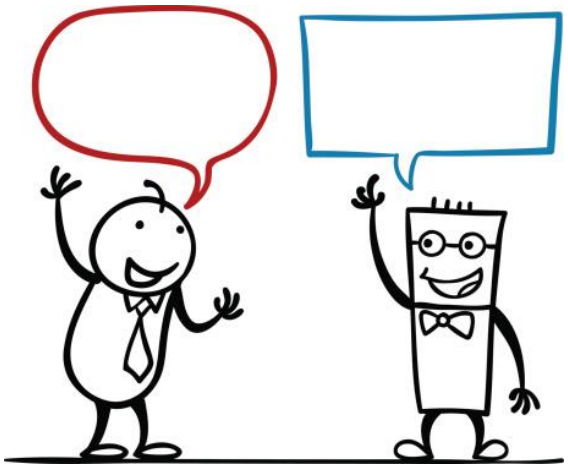
Review

- Basic Tags
  - h1~h6, p, body, title, img, a, strong, b, em, i, ...
- List Tags
  - ul li, ol li, dl dt dd, ..
- Form Tags
  - form, fieldset, legend, label, input, select, option, textarea, button, ..
- Table Tags
  - table, thead, tbody, tfoot, tr, td, colgroup, col
- …

What are Tables for?

Share examples and thoughts on what HTML could be used for?

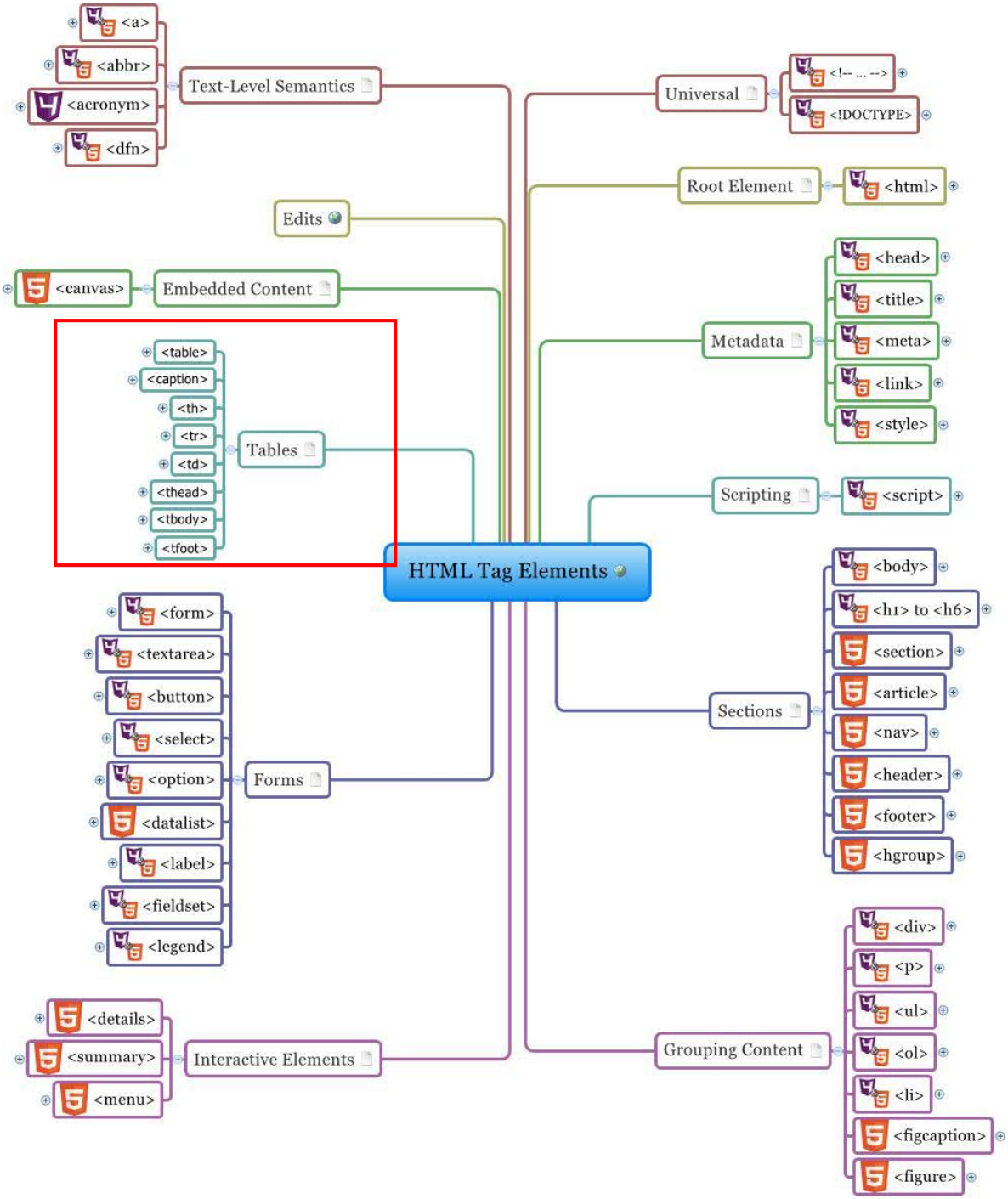
(5 Minutes)



HTML Tables and Tags

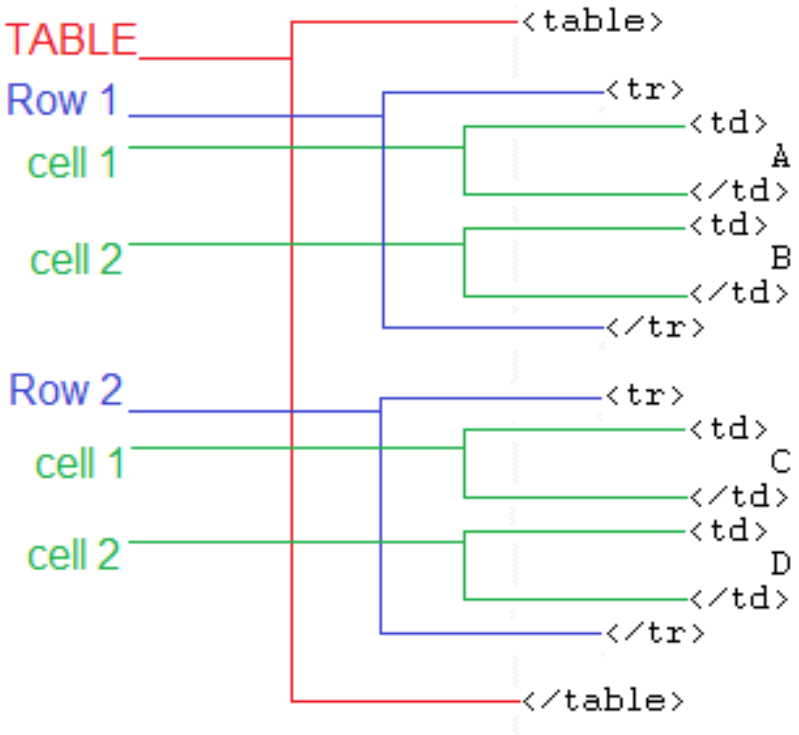
- The table element is used to represent multiple dimensions data. How to organize and present tabular data in a web page or application is interesting and challenging

- The table element is made from these 5 parts:
  - Table caption - <caption>
  - Row group - <thead>, <tbody>, <tfoot>
  - Column group - <colgroup>, <col>
  - Table rows - <tr>
  - Table cells - <td>, <th>

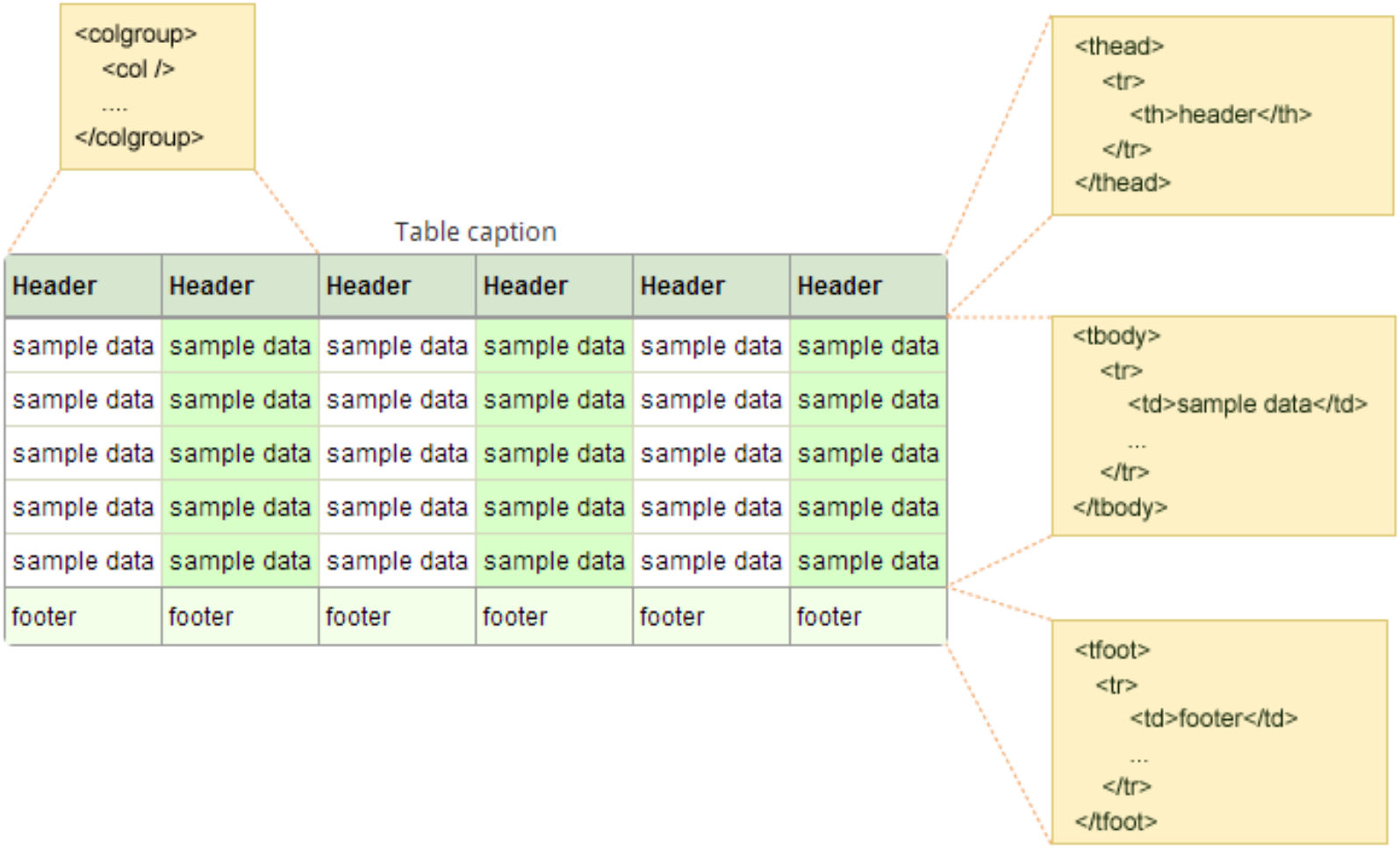

HTML Tag Elements
Text-Level Semantics
<a>
<abbr>
<acronym>
<dfn>
Edits
Embedded Content
<canvas>
Tables
<table>
<caption>
<th>
<tr>
<td>
<thead>
<tbody>
<tfoot>
Forms
<form>
<textarea>
<button>
<select>
<option>
<datalist>
<label>
<fieldset>
<legend>
Interactive Elements
<details>
<summary>
<menu>
Universal
<!-- ... -->
<!DOCTYPE>
Root Element
<html>
Metadata
<head>
<title>
<meta>
<link>
<style>
Scripting
<script>
Sections
<body>
<h1> to <h6>
<section>
<article>
<nav>
<header>
<footer>
<hgroup>
Grouping Content

<p>
<ul>
<ol>
<li>
<figcaption>
<figure>

Review Table Tags



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


<colgroup>
<col />
....
</colgroup>
Table caption
Header
Header
Header
Header
Header
Header
sample data
footer
<thead>
<tr>
<th>header</th>
</tr>
</thead>
<tbody>
<tr>
<td>sample data</td>
...
</tr>
</tbody>
<tfoot>
<tr>
<td>footer</td>
...
</tr>
</tfoot>

Question

- What is the tag to identify a row inside of a table?

a) <tr>

b) <row>

c) <th>

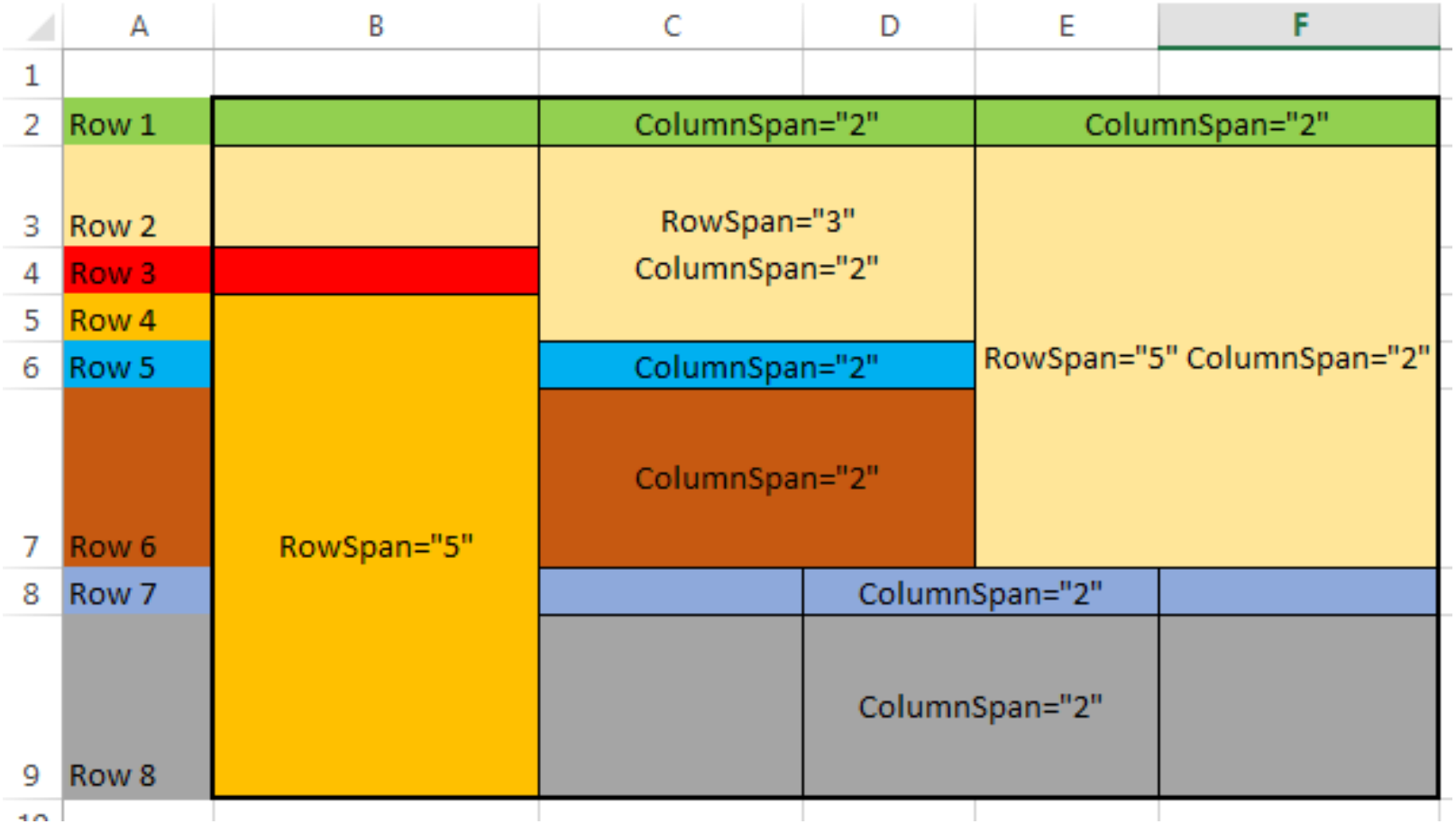
d) <td>

Answer

- a) tr

Colspan/Rowspan

```
<table>
<tr>  <td colspan="3"> </td>  <td> </td> </tr>
<tr>  <td> </td>  <td> </td>  <td> </td>  <td> </td> </tr>
<tr>  <td> </td>  <td> </td>  <td> </td>  <td> </td> </tr>
</table>
```


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
Row 1
Row 2
Row 3
Row 4
Row 5
Row 6
Row 7
Row 8
ColumnSpan="2"
ColumnSpan="2"
RowSpan="3"
ColumnSpan="2"
RowSpan="5" ColumnSpan="2"
ColumnSpan="2"
ColumnSpan="2"
RowSpan="5"
ColumnSpan="2"

	DynDNS Pro	Dyn Standard DNS	DynECT Managed DNS			
			Lite 10	Lite 25	Lite 50	Enterprise
Domain Style	yourname.dyndns.org	yourdomain.com	yourdomain.com			yourdomain.com
Resource Records	Up to 30 yourname.dyndns.org style hostnames	50 records	100 records	200 records	500 records	500+ records
Domains/Zones	N/A	1 Zone (yourdomain.com)	10 Zones	25 Zones	50 Zones	50+ Zones
DNS Queries per Month	N/A	600,000	600,000	1,200,000	1,800,000	1,800,000+
Record Types	One A record One MX record	A, AAAA, CNAME, MX, TXT, SRV, NS, LOC, PTR	A, AAAA, CERT, CNAME, DHCID, DNAME, DNSKEY, DS, IPSECKEY, KEY, KX, LOC, MX, NAPTR, NS, NSAP, PTR, PX, RP, SOA, SPF, SRV, SSHFP, TXT			
Network Style	Unicast Network in 5 global data centers		IP Anycast Network in 15 global data centers and the fastest, most secure, stable and reliable DNS network available on the market today.			
Advanced Features	No		DNSSEC			Active Failover Traffic Management Advanced Traffic Management

Question

- Which of the following are table tags?

a) table, thead, tr, td

b) colspan, table, tr

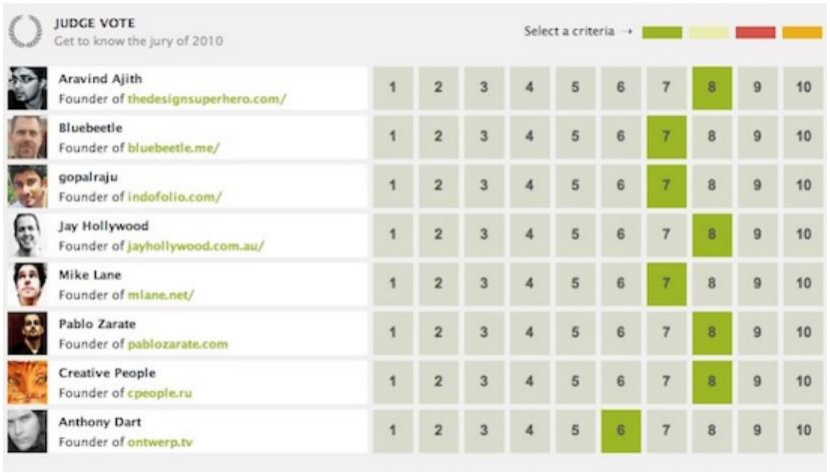
c) table, tt, tr, td

Answer

- a) table, thead, tr, td

Other options include table row elements and attributes

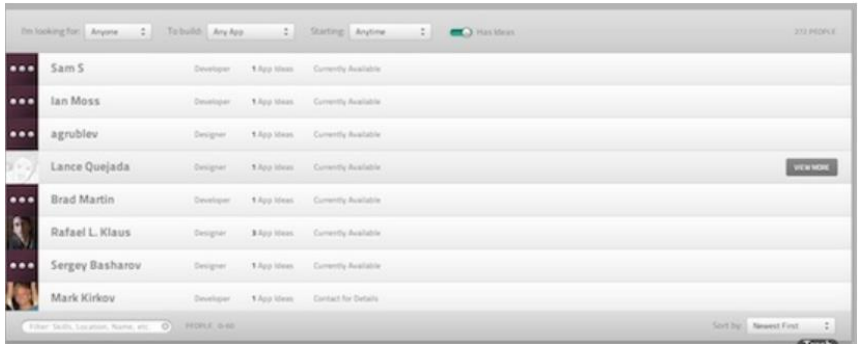
HTML Table Examples



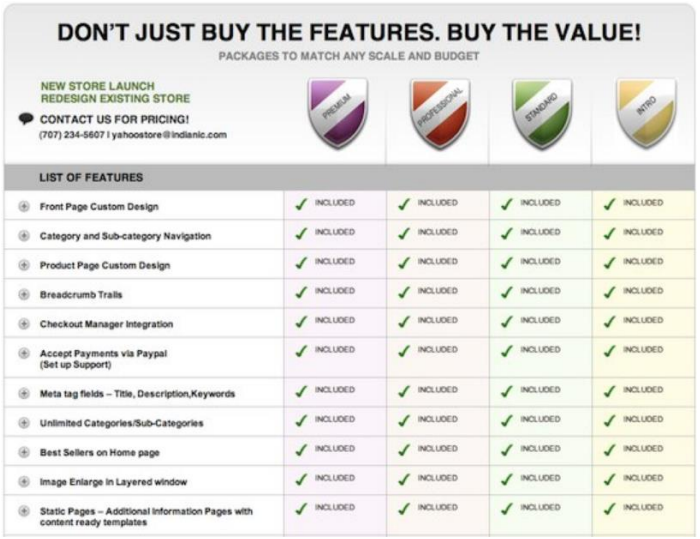
JUDGE VOTE
Get to know the jury of 2010

Select a criteria →

	1	2	3	4	5	6	7	8	9	10
Aravind Ajith Founder of thedesignsuperhero.com/								8		
Bluebeetle Founder of bluebeetle.me/							7			
gopalraju Founder of indofolio.com/							7			
Jay Hollywood Founder of jayhollywood.com.au/								8		
Mike Lane Founder of mlane.net/							7			
Pablo Zarate Founder of pablozarate.com								8		
Creative People Founder of cpeople.ru								8		
Anthony Dart Founder of ontwerp.tv						6				



Sam S	Developer · 1 App Ideas · Currently Available
Ian Moss	Developer · 1 App Ideas · Currently Available
agrublev	Designer · 1 App Ideas · Currently Available
Lance Quejada	Designer · 1 App Ideas · Currently Available · VIEW MORE
Brad Martin	Developer · 1 App Ideas · Currently Available
Rafael L. Klaus	Designer · 3 App Ideas · Currently Available
Sergey Basharov	Designer · 1 App Ideas · Currently Available
Mark Kirkov	Developer · 1 App Ideas · Contact for Details



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LIST OF FEATURES	PREMIUM	PROFESSIONAL	STANDARD	INTRO
Front Page Custom Design	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Category and Sub-category Navigation	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Product Page Custom Design	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Breadcrumb Trails	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Checkout Manager Integration	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Accept Payments via Paypal (Set up Support)	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Meta tag fields – Title, Description,Keywords	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Unlimited Categories/Sub-Categories	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Best Sellers on Home page	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Image Enlarge in Layered window	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED
Static Pages – Additional Information Pages with content ready templates	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED	✓ INCLUDED

	BASIC	PROFESSIONAL	BUSINESS	ENTERPRISE	PREMIER
	$24 monthly	$59 monthly	$99 monthly Most Popular	$249 monthly	$699 monthly
	Sign Up	Sign Up	Sign Up	Sign Up	Sign Up
Set up fee	waived	waived	waived	waived	waived
Transaction Fee	2.0%	1.0%	1.0%	0.5%	0%
Max SKUs	100	2,500	10,000	25,000	50,000
Storage	100 MB	500 MB	1000 MB	2.5 GB	5 GB
Bandwidth	unlimited	unlimited	unlimited	unlimited	unlimited
Custom Domains	✓	✓	✓	✓	✓
SSL Checkout	✓	✓	✓	✓	✓
SSL Admin		✓	✓	✓	✓
Discount Codes		✓	✓	✓	✓
Carrier Shipping			✓	✓	✓
Real-Time Stats			✓	✓	✓
Adwords credit	$ 25.00	$ 50.00	$ 50.00	$ 75.00	$ 75.00
All prices are USD	Sign Up	Sign Up	Sign Up	Sign Up	Sign Up

HTML Table Tips

TIP 1 - Keep your tables as simple as possible

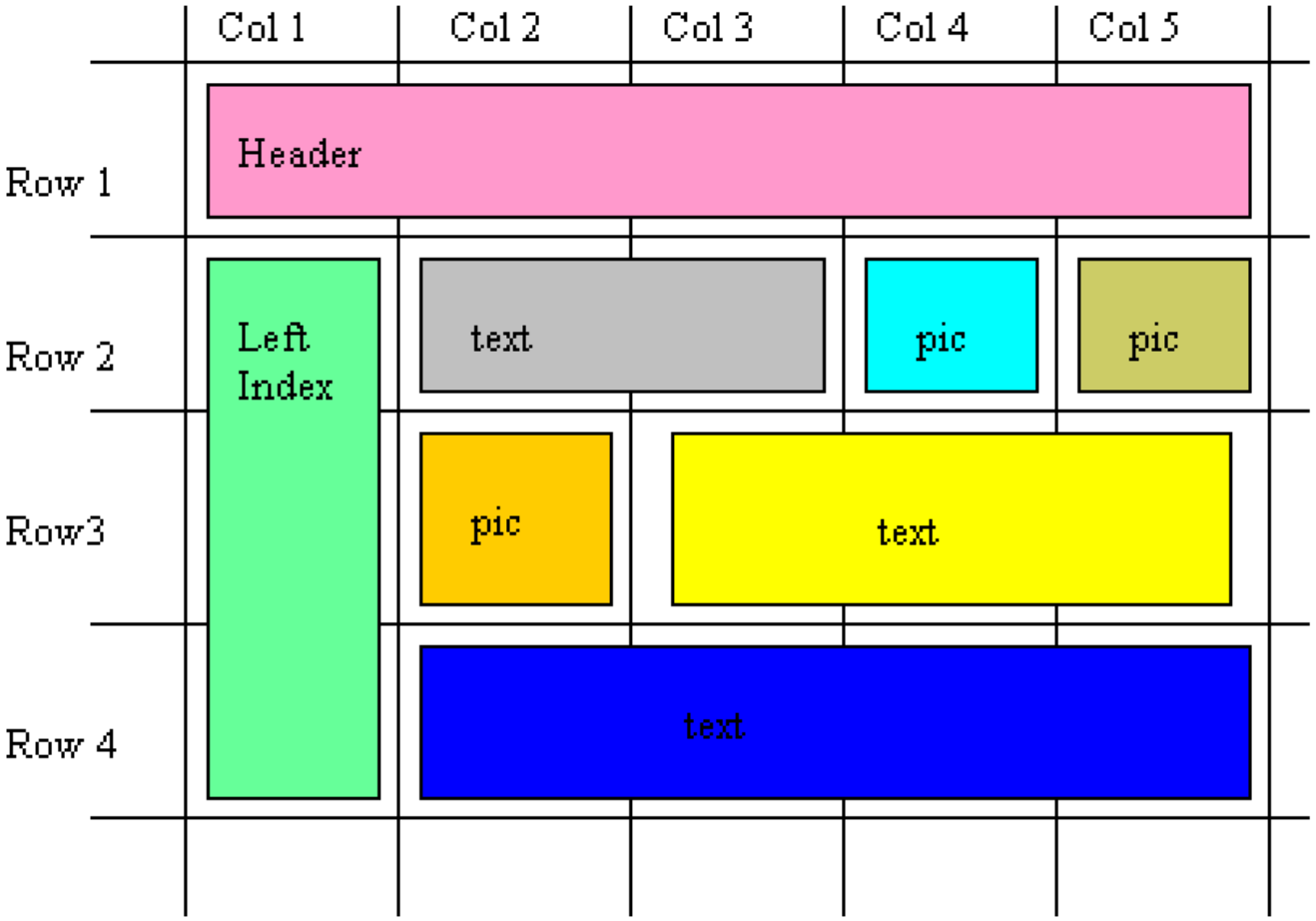
- Nesting tables 'inside' tables is ok - but keep it to the minimum
- You can usually achieve the same layout effect by using more rows and columns in your main table

TIP 2 - Keep your tables as short as possible

- Better to have a sequence of smaller tables than one big one

TIP 3 - Pen and Paper First

- Plan your initial layout

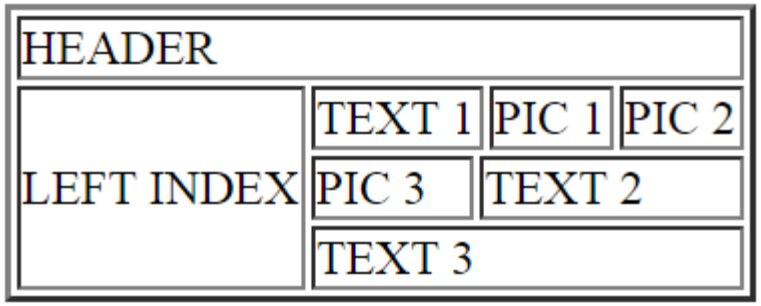


TIP 4 - Label the empty 'TD' data cells (Debugging)

- Once you have completed the blank table then label/number the data cells so you can **see** which is which when you start filling them up

- I know it sounds a bit 'simple' - but when you start filling the cells up with content, the page in your html editor expands enormously and its much easier to locate a cell in your editor if its labelled than if its not

```
<table border="1">
    <tr> ** Row 1 **
    <td colspan="5">HEADER</td>
    </tr>

    <tr> ** Row 2 **
    <td rowspan="3">LEFT
    INDEX</td>
    <td colspan="2">TEXT 1</td>
    <td>PIC 1</td>
    <td>PIC 2</td>
    </tr>

    <tr> ** Row 3 **
    <td>PIC 3</td>
    <td colspan="3">TEXT 2</td>
    </tr>

    <tr> ** Row 4 **
    <td colspan="4">TEXT 3</td>
    </tr>
</table>
```

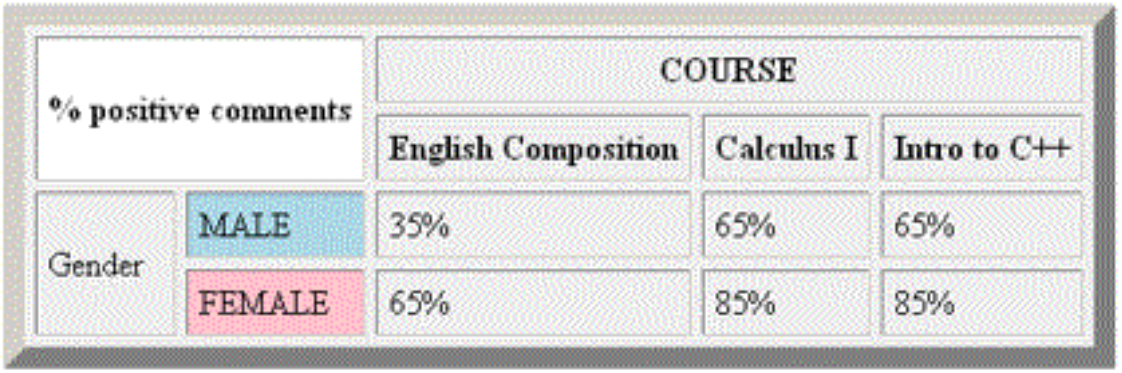


TIP 5 – Table Width="%"

- Declare the size of the table either as fixed units
  - e.g., <table width="700"> where 700 is measured in pixels
- or you can define it as a percentage (%) of the screen its viewed in
  - e.g., <table width="100%">

TIP 6 – Borders and colours to see what you are doing

- The *normal* border effect you get using "border=1" is quite ugly really and most of the time you will have set the parameter to border="0". However - while you are building your table - and especially when you a faulting a table - turn up the volume to border="2" **so you can <u>see</u> what you are doing**



% positive comments		COURSE		
		English Composition	Calculus I	Intro to C++
Gender	MALE	35%	65%	65%
	FEMALE	65%	85%	85%

TIP 7 - Table attribute "SUMMARY".

- The table attribute "summary" should be used to describe what is inside the table for the convenience of non visual site visitors

- Example:

  <table width="100%" summary="Top page table incorporating top header bar, left side index bar and data cells of text and pictures">

Table Background Colour

- You can set the background color of your table and cells simply by using "bgcolor" attribute

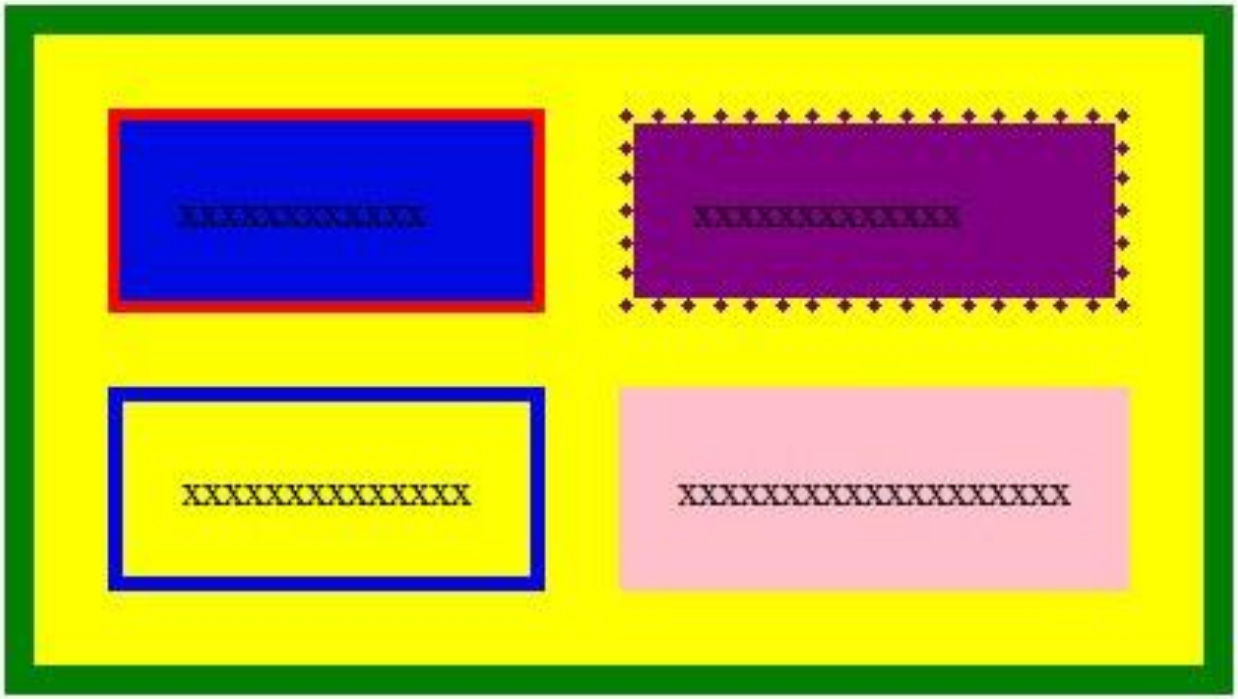
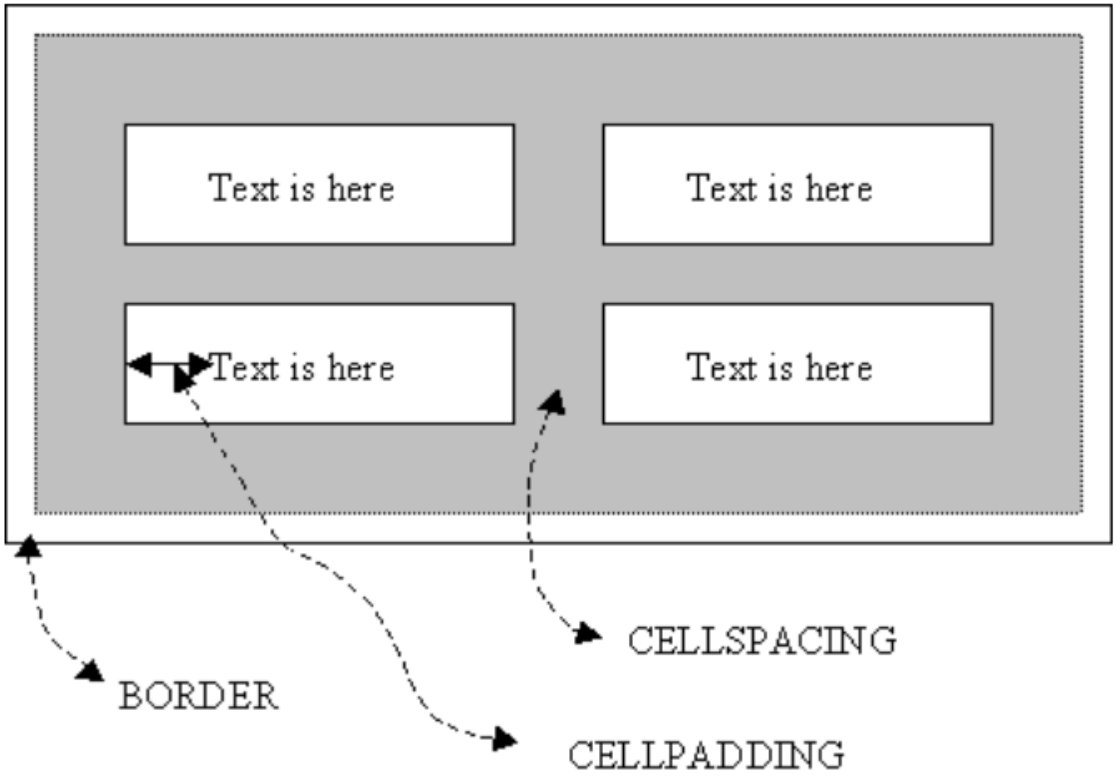


Table Background Colour

```
<table bgcolor="yellow" cellpadding="20" cellspacing="25" style="border:10
solid green">

<tr>
  <td bgcolor="light blue" style="border:4 solid red">xxxxxxxxxxxx</td>
  <td bgcolor="purple" style="border:5 dotted purple">xxxxxxxxxxxxx</td>
</tr>

<tr>
   <td style="border:5 solid blue">xxxxxxxxxxxxxx</td>
   <td bgcolor="pink">xxxxxxxxxxxxxxxxxx</td>
</tr>

</table>
```

Cellpadding and Cellspacing

- Control spacing between content and borders



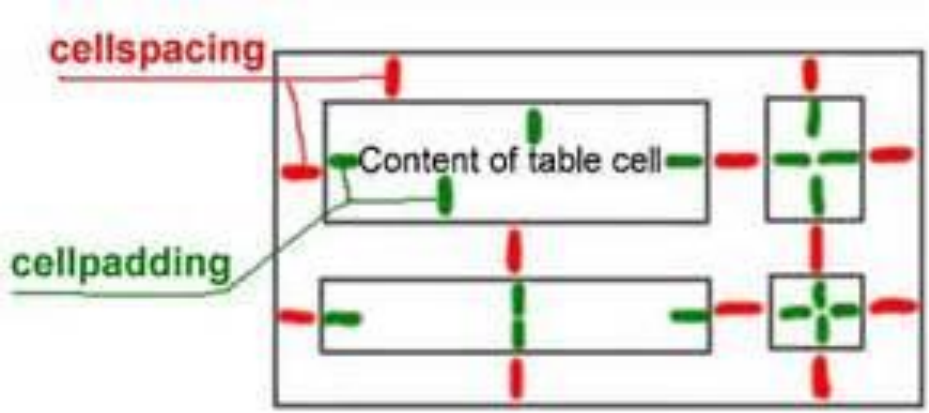
Cellpadding and Cellspacing

- **Cellpadding** is an attribute of <table> tag. By using cellpadding attribute you can set the amount of space between the contents of the cell and the cell wall

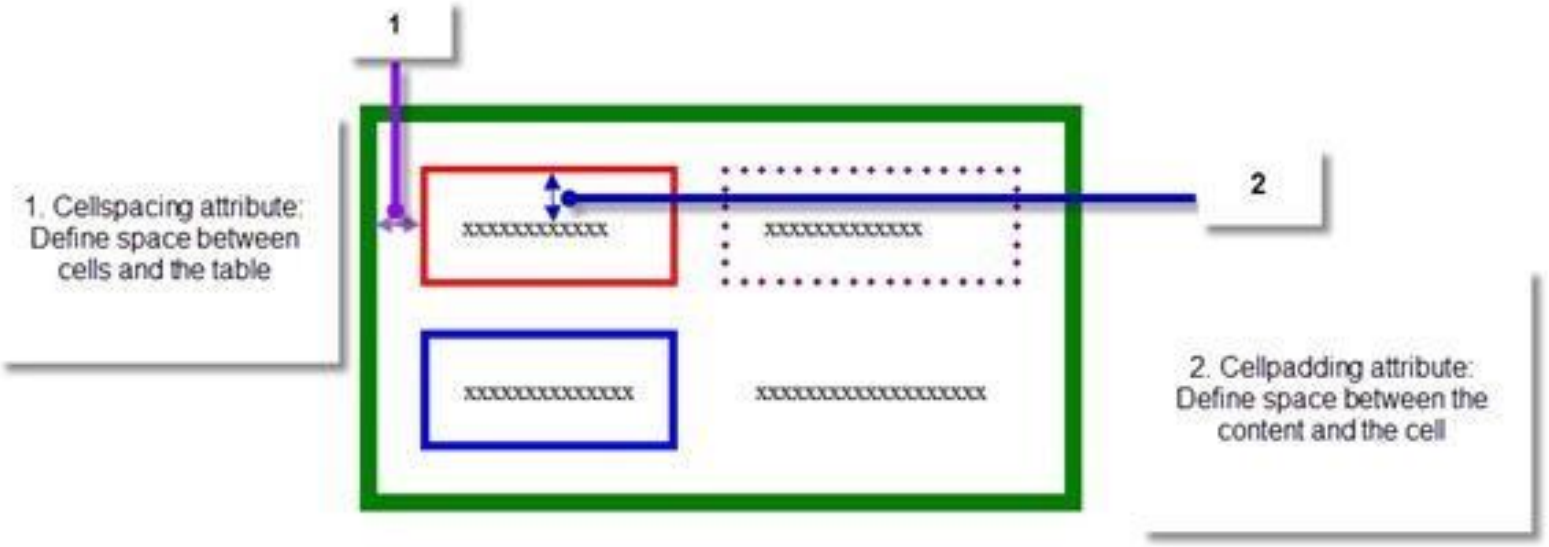
- **Cellspacing** is also an attribute of <table> tag. By using cellspacing attribute you can set the amount of space between the table cells

Example: <table cellpadding="4">

Example <table cellspacing="4">



Cellpadding and Cellspacing



HTML code for this table:

```
<table cellpadding="20" cellspacing="25" style="border:10 solid green"><tr><td style="border:4 solid red">
xxxxxxxxxxxx</td><td style="border:5 dotted purple">xxxxxxxxxxxxx</td></tr>
<tr><td style="border:5 solid blue">xxxxxxxxxxxxxx</td><td>xxxxxxxxxxxxxxxxxx</td></tr></table>
```

Table Background Image

- Background attribute to add any images as background of your table or to each cell separately

```
<table>
   <tr>
       <td style="background: url(tree.jpg);">
 ..

</table>
```

You are learning Web Designing
You are learning Web Designing
Something
WonderHowTo
link to section1 of this web page
Link to section2 of another web page
Cell with image as a background
Using different background for table.
Cell with another image as background
You are learning Web Designing

Question

- This attribute of the table HTML element configures the amount of space between the content of each table cell and the edge of the table cell

a) cell
b) valign
c) cellpadding
d) colspan

Answer

- c) cellpadding

Question

- HTML element that configures the row(s) in the table footer area is “tbody”

a) True
b) False

Answer

- b) False

It should be “tfoot”

Table Borders

- You can also apply border to your image by using the "style" attribute

<img style="border:5 solid yellow" src=“world.jpg" height="200" width="400" alt="image">

Note on Anchors

- Open links in a new window using the ‘target’ attribute

<a href=“cat.html" target="_blank" >Link to Cats</a>

- Clickable Images
  - ▷Take advantage of graphics

<a href=“cats.html" target="_blank" ><img src="path of the image"></a>

Special Characters

- Display HTML coding on your web page for visitors to see (e.g., <, >, &, ..)
- Popular escape codes:

CODE	DESCRIPTION	RESULT
	Space	
<	Less than	<
>	Greater than	>
"	Quotation	"
&	Ampersand	&
©	Copyright	©
®	Registered	®
¶	Paragraph Sign	¶
¢	Cent	¢
²	Superscript (example 2)	²
¼	Fraction (example ¼)	¼
£	Pound	£
°	Degrees	°
¥	Yen	¥

Sub and Sup

Example:

Regular Text.

_{Lowered SUB text.}

Regular text.

^{Raised SUP text.}

Regular Text. Lowered SUB text. Regular Text. Raised SUP text.

This Week

- Review Slides
- Read Associated Chapters
- Practical Tasks
  - Experiment and Have Fun
- Online Quizzes
  - Additional quizzes each week
- Update Github Website
  - Regularly make commits/updates
  - Structure your/folders/sections
    - Manage/demonstrate different features/techniques

Summary

- Overview of Traditional Table-Based HTML Techniques
- See how HTML Tables allow you to format/represent data/layouts in an organised manner
- Next week we'll move onto CSS for controlling/formatting
  - Split Content from Formatting
  - Greater control and customizability

Questions/Discussion

Individual Project

- Develop and Implement at Tutorial Website on HTML/CSS
- Published on Github
  - ▷Show regular progressive updates
  - ▷Github commit history/log
  - ▷(Submitted with the final website at the end)
- Multiple Pages
  - ▷Theme
- Professional Solution

Deliverables

- Easy to use/Structured
  - Navigation section,
  - Logo section
  - Footer
  - …
- Website:
  - contact page,
  - about page
  - home page
  - content pages (tutorials)
  - Resizable
  - Support different browsers
  - +
- Style:
  - Consistent layout/theme
  - Modern and interesting (use colors and formatting)
  - `fav' icon (browser tab)
  - Comments in html
  - Images (.jpg/.gifs), ..
- `Professional implementation'
  - Use of tags/styles/formatting should be done in a professional/well organised way

Revision Questions

Question

- How would you automatically transfer your visitors to a new web page?

Answer

- You can do it with the help of meta tag mentioned below:

```
<META HTTP-EQUIV="Refresh" CONTENT="2";
                                URL="http://www.cats.com">
```

- Place this tag between <HEAD></HEAD>
- It will load yousite.com in 2 seconds.

Question

- What is a <dl> tag in HTML?

a) definition list tag
b) delete tag
c) double tab tag
d) table column tag

Answer

- a) definition list tag

<dl> is a definition list tag used in HTML

It is used with <dt> and <dd>

<dt> list the item while <dd> describes it

Question

- Colspan=n can be added to only what tag?

a) Table

b) Td

c) Tr

Answer

- Answer b)