

Web Technology 1

Introduction to HTML

HTML

Meta Tag

Text Formatting

Lists

Tables

Frames

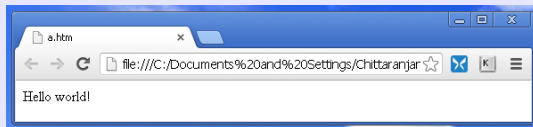
IFrame

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HTML

- HTML (HyperText Markup Language) is the language for creating web pages and other information that can be displayed in a web browser
- HTML documents are written using *HTML tags* embedded in *angular brackets*. **W3C (World Wide Web Consortium)** has defined the HTML tags
- A **Web Page** is a web document with .htm or .html extension
- A **Web browser** is a specific software program required to display Web pages

```
<HTML>  
Hello world!  
</HTML>
```



HTML

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Adding a Title

- Header contains important information about the page
- Title is the small text that will appear in title bar of viewer's browser
- Body is the part in which the web page content are entered
- Each *embedded tag* has both opening and closing tags
- *Standalone tags* don't have closing tags

```
<HTML>
```

```
<HEAD>
```

```
<TITLE>My company web page</TITLE>
```

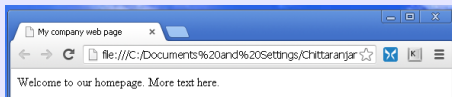
```
</HEAD>
```

```
<BODY>
```

```
Welcome to our homepage. More text here.
```

```
</BODY>
```

```
</HTML>
```



HTML

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HTML...

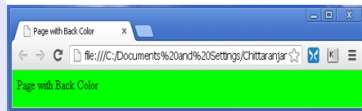
HTML Comments

HTML comment starts with `<!--` and ends with `-->`

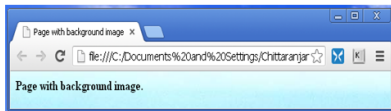
HTML Background

- BGCOLOR is used to set the background color. It can be set using specific color or 6-digit hexadecimal color code
- BACKGROUND is used to set the background image

```
<HTML>
<HEAD>
<TITLE>Page with Back Color</TITLE>
</HEAD>
<BODY BGCOLOR="#00FF00">
Page with Back Color
</BODY>
</HTML>
```



```
<HTML>
<HEAD>
<TITLE>Page with background image</TITLE>
</HEAD>
<BODY BACKGROUND="Blue.jpg">
<B>Page with background image.</B>
</BODY>
</HTML>
```



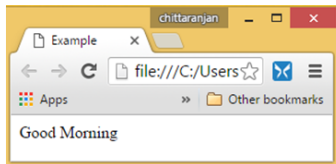
HTML

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Meta Tag

- It provides metadata about the document. Metadata will not be displayed on the page
- These are used to specify page description, keywords, author of the document, last modified etc
- It always go inside the <HEAD> tag

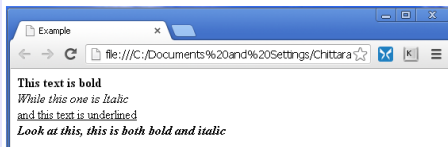
```
<HTML>
<HEAD>
<TITLE> Example </TITLE>
<META name = "description" content=" Example of META tag">
<META name = "author" content=" CRP">
<META http-equiv="refresh" content="15">
</HEAD>
<BODY>
Good Morning
</BODY>
</HTML>
```

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Text Formatting

- Bold, Italic, Underline
- When you use nested tags you must be sure that they do not overlap each other. They must be nested exactly
- superscript: <sup> and subscript: <sub>

```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<BODY>
<B>This text is bold</B><br>
<I>While this one is Italic</I><br>
<U>and this text is underlined</U><br>
<B><I>Look at this, this is both bold and italic</I></B>
</BODY>
</HTML>
```

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Text Formatting...

Text Formatting

```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<BODY>
<FONT SIZE=4>4This text is bold</FONT><br>
<FONT SIZE=7>7This text is bold</FONT><br>
<FONT FACE="ARIAL">This text is in ARIAL font</FONT><br>
<FONT FACE="IMPACT">This text is in IMPACT font</FONT><br>
<FONT COLOR="#FF0000">This text is in red color.</FONT><br>
<FONT COLOR="#0000FF">This text is in green color.</FONT><br>
<B><I><FONT SIZE="5" FACE="IMPACT" COLOR="#00FF00">
How is this ?
</FONT></I></B>
</BODY>
</HTML>
```



Text Formatting...

Heading

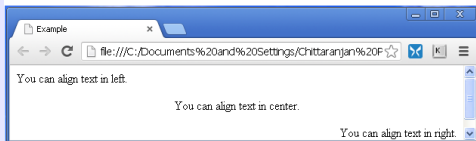
There are 6 levels of headings h1 through h6. h1 has the largest and h6 has the smallest font size

Paragraph

Paragraph: <P>

** ** is used to insert a space

```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<BODY>
<P ALIGN="left">You can align text in left.</P>
<P ALIGN="center">You can align text in center.</P>
<P ALIGN="right">You can align text in right.</P>
</BODY>
</HTML>
```



Lists

Lists

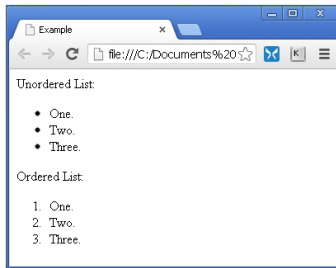
List is a collection of one or more items

Unordered List: type: disc, circle, square

Ordered List: type: 1, A, a, i, I

start: 4, C

```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<BODY>
Unordered List:
<UL>
<LI>One.
<LI>Two.
<LI>Three.
</UL>
Ordered List:
<OL>
<LI>One.
<LI>Two.
<LI>Three.
</OL>
</BODY>
</HTML>
```



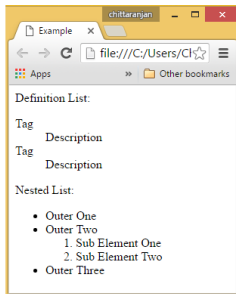
Lists

Definition List: list items consist of two parts: a term and its description

Nested List: Nested lists may be used to display sub-elements of an item. Any of the three types of lists may be nested in another

```
<HTML>
<HEAD>
<TITLE> Example </TITLE>
</HEAD>
<BODY>
Definition List:
<DL>
<DT>Tag </DT>
<DD> Description </DD>
<DT> Tag </DT>
<DD> Description </DD>
</DL>
```

```
Nested List:
<UL>
<LI>Outer One </LI>
<LI> Outer Two
<OL>
<LI> Sub Element One </LI>
<LI> Sub Element Two </LI>
</OL>
</LI>
<LI> Outer Three</LI>
</UL>
</BODY>
</HTML>
```

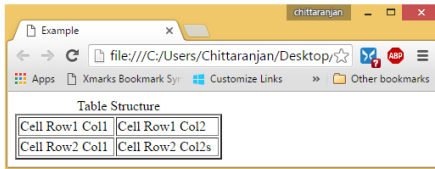


Tables

Border value indicates the thickness of the outermost table boundary in pixels

Caption describes the title of table data

```
<HTML>
<HEAD>
<TITLE> Example </TITLE>
</HEAD>
<BODY>
<TABLE WIDTH=50% BORDER=2>
<CAPTION> Table Structure</CAPTION>
<TR>
<TD> Cell Row1 Col1</TD>
<TD> Cell Row1 Col2</TD>
</TR>
<TR>
<TD> Cell Row2 Col1</TD>
<TD> Cell Row2 Col2s</TD>
</TR>
</TABLE>
</BODY>
</HTML>
```

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Tables

ALIGN: Left, Right, Center

VALIGN: Top, Bottom

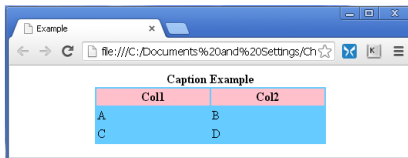
```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<BODY>
<TABLE WIDTH=50% HEIGHT=100 BORDER=3>
<TR>
<TD ALIGN=LEFT VALIGN=TOP>TOP LEFT</TD>
<TD ALIGN=RIGHT VALIGN=TOP>TOP RIGHT</TD>
</TR>
<TR>
<TD ALIGN=LEFT VALIGN=BOTTOM>BOTTOM LEFT</TD>
<TD ALIGN=RIGHT VALIGN=BOTTOM>BOTTOM RIGHT</TD>
</TR>
</TABLE>
</BODY>
</HTML>
```

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Tables

Table Header helps to understand the meaning of data in a row/column

```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<BODY>
<TABLE width="300" BGCOLOR="#66CCFF" Align="center">
<CAPTION Align="Top"><b>Caption Example</b></CAPTION>
<TR BGCOLOR="pink">
<TH>Col1</TH>
<TH>Col2</TH>
</TR>
<TR>
<TD width="50%">A</TD>
<TD width="50%">B</TD>
</TR>
<TR>
<TD width="50%">C</TD>
<TD width="50%">D</TD>
</TR>
</TABLE>
</BODY>
</HTML>
```



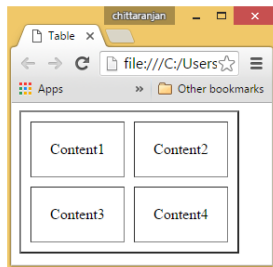
Col1	Col2
A	B
C	D

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Cellpadding & Cellspacing

Cellpadding is the amount of space between the edges of the cell and cell content. *Cellspacing* is the amount of space between the cell borders

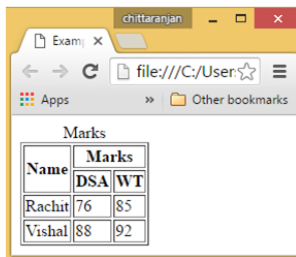
```
<HTML>
<HEAD>
<TITLE> Table </TITLE>
</HEAD>
<BODY>
<TABLE BORDER=2 CELLPADDING=20 CELLSPACING=10>
<TR>
<TD> Content1 </TD>
<TD> Content2 </TD>
</TR>
<TR>
<TD> Content3 </TD>
<TD> Content4 </TD>
</TR>
</TABLE>
</BODY>
</HTML>
```

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Rowspan & Colspan

Rowspan indicates the number of rows a cell spans while
Colspan indicates the number of columns a cell spans

```
<HTML>
<HEAD>
<TITLE> Example </TITLE>
</HEAD>
<BODY>
<TABLE BORDER=1>
<CAPTION> Marks</CAPTION>
<TR>
<TH ROWSPAN=2> Name</TH>
<TH COLSPAN=2> Marks</TH>
</TR>
<TR>
<TH> DSA</TH> <TH> WT</TH>
</TR>
<TR>
<TD> Rachit</TD><TD>76</TD><TD>85</TD>
</TR>
<TR>
<TD> Vishal</TD><TD>88</TD><TD>92</TD>
</TR>
</TABLE>
</BODY>
</HTML>
```



The screenshot shows a web browser window with the title 'chittaranjan'. The address bar shows the file path 'file:///C:/User...'. The browser displays the rendered HTML table with the caption 'Marks'.

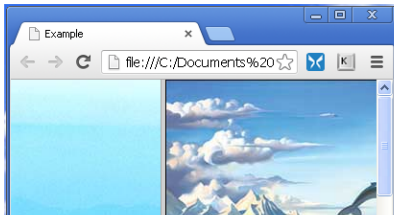
Name	Marks	
	DSA	WT
Rachit	76	85
Vishal	88	92

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Frames

A web page may be divided into several blocks called *frames*. Each frame may display a separate web page
Frames are used to have the menu in one frame and the content in another frame

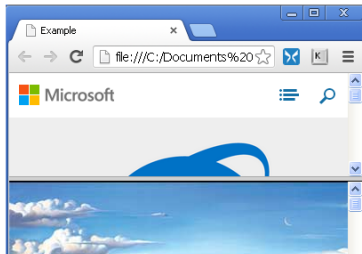
```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<FRAMESET COLS="40%,*">
<FRAME SRC="Blue.jpg" SCROLLING="No">
<FRAME SRC="test.jpg">
</FRAMESET>
</HTML>
```

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Frames

<FRAMESET> defines the characteristics of the frames such as number of frames to be created, orientation, width, height
Nested frames are possible

```
<HTML>
<HEAD>
<TITLE>Example</TITLE>
</HEAD>
<FRAMESET ROWS="50%,50%">
<FRAME SRC="http://www.microsoft.com">
<FRAME SRC="test.jpg">
</FRAMESET>
</HTML>
```

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IFrame

- IFrame tag can appear anywhere in the document
- It defines a rectangular region within the document in which the browser can display a separate document
- It is used to embed another document within the current HTML document

```
<HTML>
<HEAD>
<TITLE> Inline Frame </TITLE>
</HEAD>
<BODY>
Normal Content <BR>
<IFRAME SRC="5.html" WIDTH=200
HEIGHT=300>
Sorry! Not Supported
</IFRAME>
<BR> Normal Text
</BODY>
</HTML>
```

Normal Content

Red Content

Thick Content

Green Content

Thick Red Content

Normal Text

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