

Fig. 6.2 Different web pages of a website

DUCTION TO HTML

ord, HTML stands for Hyper Text Markup Language. It is a simple text form or create web pages. A web page contains text, pictures, video, audio, etc. Su web page using the HTML.



Hyper Text refers to any computer based system that uses line web page. When such links are clicked, the user reaches on a specusing such hypertext documents, a user can move from one we page. Such online documents are viewed in web browsers like Grefox, etc.

Features of HTML

Some important features of HTML are:

- HTML is a markup language and not a programming language.
- HTML is not a case sensitive language.
- This markup language consists of a set of markup tags. 13.
 - These markup tags in HTML are used to describe the data and the purpose of such data on web pages.
 - HTML is purely a desktop publishing solution and not a word processing tool.
 - A collection of HTML tags are used to design the page layout and hyperlinks.

WEB BROWSERS THAT SUPPORT HTML 5.0

In the present time, most of the modern day browsers support HTML. Some of the popular browsers include - Internet Explorer, Google Chrome, Netscape Navigator, etc.



Google Chrome



Netscape



Internet Explorer

Fig. 6.3 Some popular web browers

TML TAGS

TML tags tells the manner in which a web browser displays the text, pictures, etc. of a web page. These gs are used to give instructions in a web page. >

me important features of HTML tags are:

- 1. HTML tags contain keywords that are enclosed within the angular brackets i.e <>.
- Usually, these tags are in pairs comprising of Start and End tags. For example, <U> and </U> respectively. Here, <U> is the start tag and </U> is the end tag.
- 3. You can also call Start tag as ON tag and the End tag is called as OFF tag.
- 4. When there are both Start and End tag in HTML tags, these are called container tag. But if no End tag is there or OFF tag is missing, it is called an empty tag.
- 5. If there is no difference in spelling, the case of the tags does not make a difference. So, <html> and <HTML> represents the same tag.
- Any space between the tags does not affect the output in HTML.

STRUCTURE OF AN HTML DOCUMENT

An HTML document is also known as a web page. This document has two main parts – HEAD and BODY: The HEAD section consists of <a href="https://www.neads.nd.edu.nd images. links, etc. The content given in the BODY section is displayed in a web page. Some common tags for BODY section includes <body>, <h1>, and tags.

The basic syntax of an HTML document:

<html>

chead>

</head>

«body»

</body>

</html>

and

GETTING STARTED WITH HTML 1

You can start working on an HTML document with two basic tools. These tools are HTML editor to create the web pages and a browser required to view these web pages.

Working on HTML Editor

Basically, there are two types of HTML editors — WYSIWYG editor and text editor.

WYSIWYG Editor: The word WYSIWYG stands for What You See Is What You Get. This editor provides a graphical user interface that enables to create web pages without using the HTML tags. Some commonly used WYSIWYG editors are Adobe Dreamweaver and MS Expression Web.

Text Editor: This type of HTML editor requires the knowledge of HTML tags to create a web page. For example, Notepad, Wordpad, etc.

Create and Save a Web Page Using an HTML Editor (Practical) Importan

In order to create a web page using the Notepad, follow the steps given below:

- Click the Start button and go to All Programs option.
- Choose the Accessories folder from the All Programs menu.
- Navigate and select the Notepad from Accessories menu.
 - Start typing the HTML document.

- 5. Go to File option in the Notepad window.
 - 6. Select the Save As or Save option from the File menu.

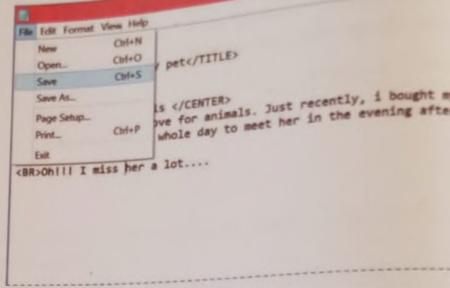


Fig. 6.4

The Save As dialog box appears on the screen.

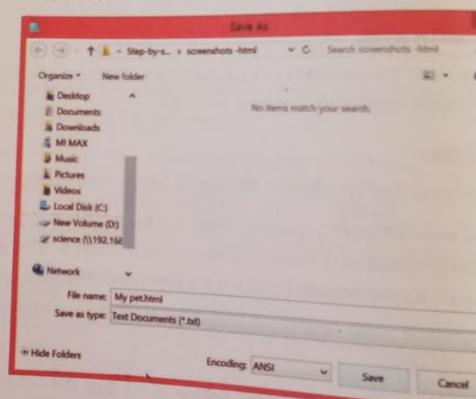


Fig. 6.5

- Go to the desired location where you want to save the file.
- Type the name of the file in the File name textbox. Give the file name with

The <TITLE> element specifies the title of the document. It is present inside the <HEA parameter of the <head>. There is only one <TITLE> tag in an HTML document.

<HTML>

<HEAD>

<TITLE> GARDEN OF ROSES </TITLE>

</HEAD>

</HTML>)

Output (Practical

GARDEN OF ROSES

© file:///D:/WORK/Step-by-step%20computer%206/screenshots%20-html/body%20element.html

Fig. 6.7



Parameters are the tags that are used within a container tag. Only have parameters. For example,

<HTML>

....tags... Parameters

</HTML>

The properties associated with a given tag is called the attribute of an element. Conta

BODY Element

The <BODY> shows the data to be displayed in the web browser. It may be a text, ima is used to make a website more attractive. The BODY element contains many attributes. S BACKGROUND, BGCOLOR and TEXT. Let us discuss them.

Background

The Background attribute allows you to set an image as background for a document. It URL of the image to be used for background. The file extension of the image should be Joint Photographic Experts Group) or .gif (i.e. Graphics Interchange Format). The f



extensions are very small as compared to other file formats like .bmp. Thus, small file size facilitates easy <HTML>

«HEAD> <TITLE> BEAUTIFUL NATURE </TITLE> </HEAD> «BODY BACKGROUND = "flowers.jpg"> </BODY> </HTML> Bgcolor ~



The BGCOLOR attribute helps to set the colour to the background. The three major colours are Red, Green and Blue. Combination of these major colours brings out different colours. The value given for

For example,

the

<HTML>

<HEAD>

<TITLE> COLOURFUL SKY </TITLE>

</HEAD>

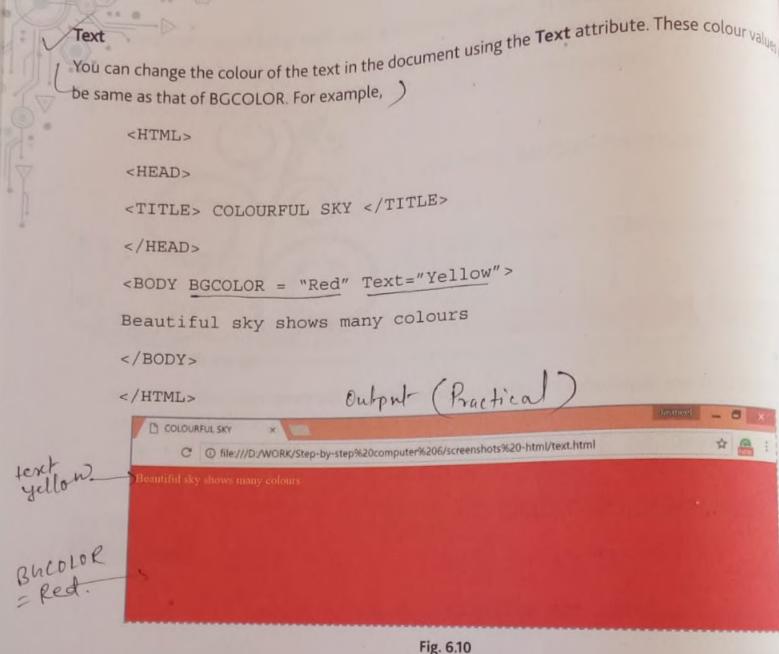
<BODY BGCOLOR = "#4657A7">

</BODY>

</HTML>

Output (Practical)





HEADINGS IN HTML

In HTML, you can use header element to show a text as heading on the web page. Heading look different from the other text as it is bold. Header element has the heading tag with the syntax -<Hn>....
/Hn>. Here, n can take the value from 1 to 6. Heading 1 is the most important and local control of the control prominent on the web page. The sixth heading shows the least important text and it is smallest

Important things to remember while using heading tag:

- The text entered within the heading tag will appear bold and prominent.
- A blank line is shown above and below each heading.
- As the number increases in the heading tag, the importance and size of the heading in



For example, <HTML> <P align = "center"> Population explosion in Indian cities <BODY> <P> The escalating population growth is greatly responsible large scale depletion of our natural resources </P> </BODY> output (Practical) </HTML> C O file:///D:/WORK/Step-by-step%20computer%206/screenshots%20-html/paragraph%20break.ht ☆ 🚗 : Population explosion in Indian cities The escalating population growth is greatly responsible for large scale depletion of our natural resources

Fig. 6.12

In order to insert a break in one line,
 tag is used. Similar to <P> tag,
 can also be used container tag as well as an empty tag.

For example,

<HTML>

<BODY>

 Population explosion in India

 Escalating population and limited resources

</BODY>

</HTML>



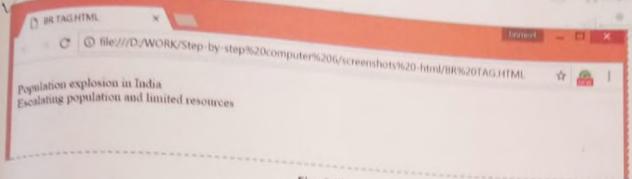


Fig. 6.13

FORMATTING TAGS

you can give style to a text in an HTML document. In order to format text, different tags are provided by

Bold

in order to make the text bold, you can use tag.

for example,

<HTML>

<BODY>

<P> I live in East Delhi near Akshardham Temple and it
is really magnificent.

</BODY>

</HTML>

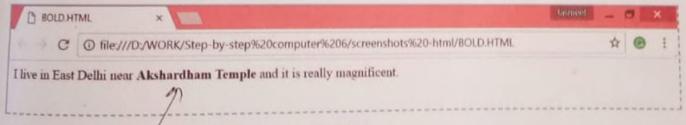
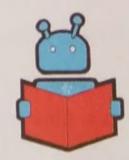


Fig. 6.14

Bold.



Italic <>>

<!> tag is used to make the text italic.

For example,

<HTML>

<BODY>

<P> I live in East Delhi near Akshardham Temple and is really magnificent.

 I use to take <I> metro </I> to reach my workplace.

</BODY>

</HTML>

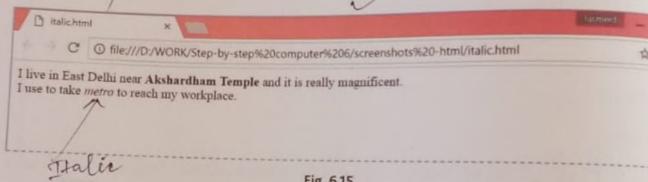


Fig. 6.15

Underline <U>

The <U> tag is used to make the text underlined. If there is space between the words, then the space gets underlined.

For example,

<BODY>

<P> I live in <U>East Delhi</U> near Akshardham Temple < and it is really magnificent.

 I use to take <I> metro </I> to reach my <U> workplace </BODY>

</HTML>





Objective

- Web page, website and web browser
- Introduction to HTML programming and its features
- Basic structure of a HTML document
- Getting started with HTML document
- Create and save a web page using an HTML editor

- Open a web page on a web browser
- Basic HTML tags
- Headings in HTML
- Use of <P> and
 tags
- Formatting tags

WEB PAGE, WEBSITE AND WEB BROWSER

You can view any online document present on World Wide Web in software called web brows Firefox, Google Chrome, Internet Explorer or Edge, Apple's Safari are some popular web brows documents that are displayed on web browsers are called web pages. A website is a collection web pages that are connected in various ways.)



Fig. 6.1 A website

For example, the output is same for the following:
<head>My lovely memories</head>

Or
<head> My lovely memories </head>

Or

<head>

My lovely memories

</head>

7. When you use more than one tag or when tags are used in combination, a close the most recent tag first.
For example, when you use tags to make the text bold and italic, like

<I> EARLY MORNING </I><I> EARLY MORNING </I>

Correct way

HTML ELEMENTS

An HTML element has a Start tag, the element content and an End tag. The matter the End tag is called the element tag. For example,

Start Tag

Start Tag

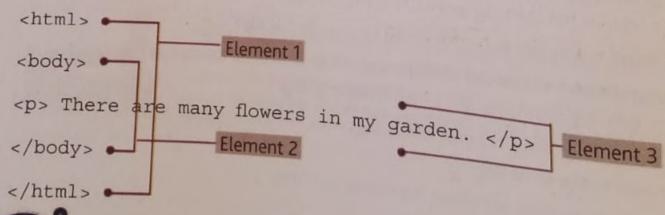
Element content

End Tag

The HTML elements determine the structure and behaviour of different parts of an

NESTED HTML ELEMENTS

Most of the HTML elements can have other HTML elements. These elements are can be elements. For example,



10. Click the Save option in the Save As dialog box. When you double click the file icon at the location where your file is saved, the HTML document opens on the default web browser.

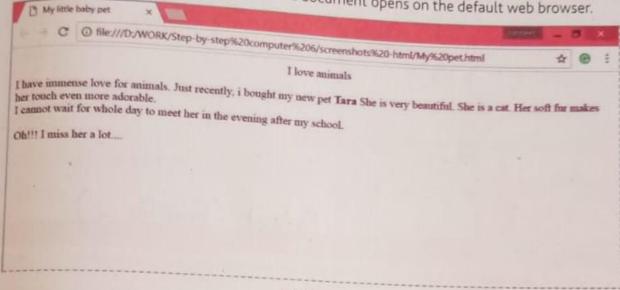


Fig. 6.6

Opening a Web Page on a Web Browser

Navigate the location where you have saved your file and select the desired file. The selected web page opens on your default web browser.

BASIC HTML TAGS

HTML Element /

(HTML tag indicates that the document shown on web browser is an HTML document. It is a container tag with both the start and the end tag. All other tags like <head>, <body>, , etc. are present inside the <html>.

<HTML>

<HEAD>

</HEAD>

</HTML>

EAD Element

he <HEAD> specifies the heading of the document shown on the title bar of the browser window. It gives formation about the document. It is also a container tag.

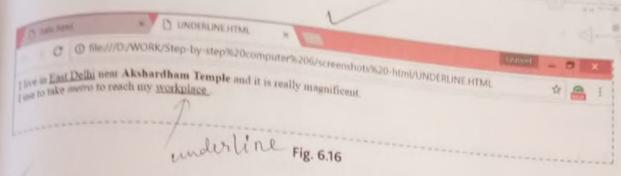
```
ple,
HTML>
BODY>
HI> Honesty is the best policy </HI>
H2> Honesty is the best policy </H2>
H3> Honesty is the best policy </H3>
H4> Honesty is the best policy </H4>
H5> Honesty is the best policy </H5>
16> Honesty is the best policy </H6>
BODY>
                                 Output (Practical)
HTML>
THEADINGS.html
 C O file:///D:/WORK/Step-by-step%20computer%206/screenshots%20-html/HEADINGS.html
Ionesty is the best policy
onesty is the best policy
onesty is the best policy
nesty is the best policy
esty is the best policy
isty is the best policy
```

Fig. 6.11

and
 TAG

hite spaces are not important. In order to insert a break in the line and in paragraph, two HTML - < P > and < BR >.

P> element gives break between the lines or extra space in the beginning of a paragraph. that comes under paragraph tag is align. It gives different alignment options to set a paragraph. er left, right or centre of the web page. When align attribute is not given, the paragraph starts side of the web page. The Paragraph tag can be used as a container tag or as an empty tag.



inter CENTER>

the text can be placed in the centre using the <CENTER > tag. The text to which <CENTER > is

avexample,

<HTML>

<BODY>

CENTER> WELCOME TO THE YEAR END STOCK CLEARANCE SALE

AT YOUR NEAREST STORE </CENTER>

Avail heavy discount offers. Terms and conditions apply.

</BODY>

</HTML>

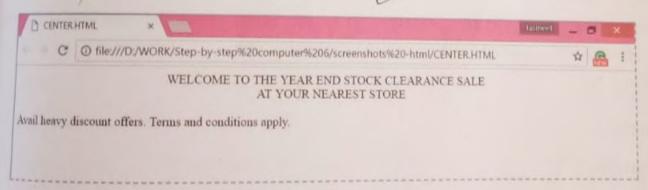


Fig. 6.17

ubscript <SUB>

text placed between the **SUB**>...**/SUB**> tags appears slightly below the usual level of the text. Thus the tween these tags is smaller in font size than the normal text.

Superscript <SUP>

The text placed between the **^{...}** tags appears slightly above the usual level of the text between these tags is smaller in font size than the normal text.

```
For example,

(HTML>

<BODY>

<P> My son Sunny has <SUP>temporary</SUP> set of teeth.

<P> He has <SUP>20</SUP> milk teeth.

</BODY>

</HTML>
```

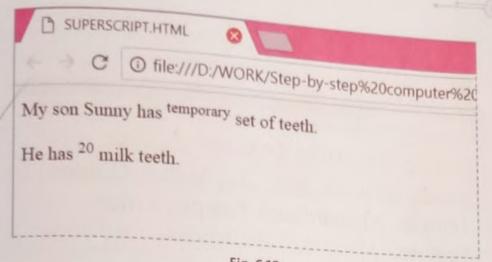


Fig. 6.19

Tag

hange the colour, size and type of font for a piece of text. It is a container tag. It has three s - FACE, COLOR and SIZE.

FONT

ACE = "NAME OF THE FONT"

DLOR = "COLOUR NAME"

ZE = "TEXT SIZE" >....

FONT>

le,

TML>

ODY>

ONT FACE = "VERDANA" COLOR = "RED" SIZE = "12">

me exciting Indian tourist destinations are:

ONT>

NT FACE = "TIMES NEW ROMAN" COLOR = "BLACK" SIZE = "12">

Mahal, Golden Temple, Akshardham Temple, Lotus Temple.

ONT>

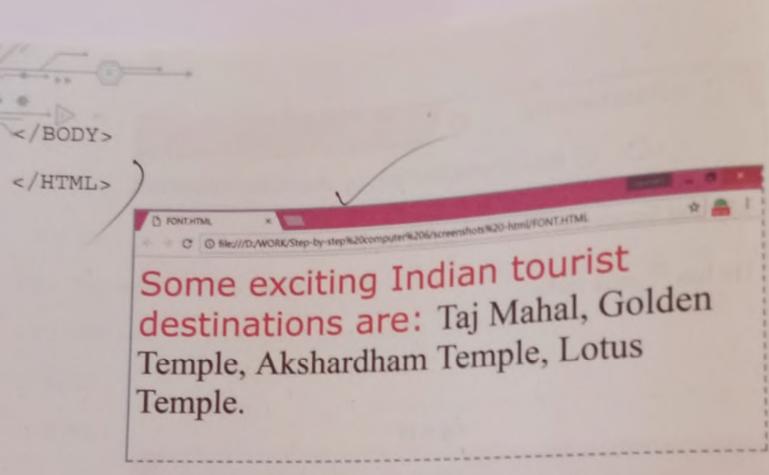


Fig. 6.20

Timothy John Berners-Lee

Timothy John Berners-Lee or Sir Tim Berners-Lee was a British computer scientist. He is well known as the inventor of the World Wide Web. He received a knighthood in 2004 by Queen Elizabeth II of the United Kingdom. Also he was awarded the inaugural Millennium Technology Prize by the Finnish Technology Award Foundation. He was working as a software engineering consultant at CERN in 1980. At CERN, he developed a program that could store information in files that were in contained connections (or links) both within and among separate files. This technique was later known as hypertext.

In 1989, he proposed the creation of global hypertext document system. was to provide an ability to share results, techniques, and practices of his reschanging their e-mail. Moreover, Berners-Lee wrote the software for the fit