



INTRODUCING HTML



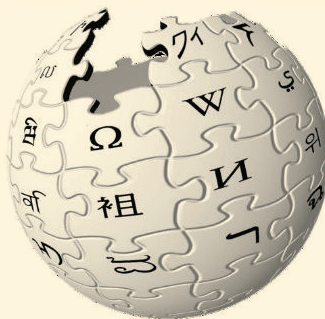
Learning Outcomes

At the end of this lesson, students will be able to:

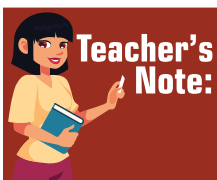
- ♦ Know about HTML and its features.
- ♦ Rules for writing HTML codes.
- ♦ Contrast between a container and empty tags.
- ♦ Design a Web page.



Samaira wants to surf some of the famous websites. Provide her with the website links of the following.



WIKIPEDIA
The Free Encyclopedia



Teacher's Note:

Ask students if they have ever thought about which language is used to build these superb websites. Inform them that Markup languages are used to create websites.

Hello Friends!! We use Markup languages to create websites. HTML and XML are the most popular Markup Languages.

Let's learn about one of them, i.e. HTML



INTRODUCTION TO HTML

HTML stands for **Hypertext Markup Language**. It is one of the most popular and widely used languages for creating web pages. Websites consist of multiple web pages with text, pictures, videos, and animation because of HTML. HTML contains a number of tags that are easy to learn and work with.

Tim Berners-Lee developed HTML in 1991.

HTML Released Year

HTML 1

1993

HTML 2

1995

HTML 3

1997

HTML 4

1999

HTML
4.01

2012

HTML 5

2014

Key Features of HTML

- ◆ A platform-independent language.
- ◆ A very easy and simple language.
- ◆ It allows us to build tables and add a link to the web page.



Let me Answer

What is the full form of HTML?

- ❖ It offers a flexible way to construct web pages along with the text.



TERMINOLOGIES RELATED TO HTML

Hypertext

Using tags called Hypertext, a basic text is transformed into a dynamic text. Also, it has the unique ability to link to other web pages.

Markup Language

A language which uses special symbols called Tags to format text documents and tells the browser how to display the text.

Tags

Tags are the basic building blocks of a web page. Each HTML tag carries out a certain task, and some are used for formatting text while some are used for adding images and videos and some others are used for navigation.



Let me Answer

Explain Platform independent language.



Do You Know?

HTML is also called tag-based language.

Webpage

A webpage is a formatted document that is translated and displayed by the web browser of your computer system.

Rules for Writing HTML codes

In order to write HTML codes, we need to abide by some rules. These are:

- ❖ Tags should always be surrounded by angle brackets. < >
- ❖ Values given to the attributes should be enclosed within the double quotes.

REMEMBER IT!



There should be no spaces between < and > in a tag.

Tags in HTML

HTML is a markup language which uses tags to markup the content of web pages. Tags are used as keywords in HTML. Each tag is used to carry out a certain operation, which browser software can recognise. Attributes are characteristics that have been assigned to each tag. Attributes of tags can be used to modify their properties.

Let us look into some HTML tags and their attributes.

Tag	Attributes
<BODY>	Background
	Face, size, colour
	SRC, width, height

The HTML tags can be categorised as

❖ **Container Tags:** A tag that has both an open and close tag is called a Container tag. For

Example: <HTML> </HTML>

↓
Opening Tag

↓
Closing Tag

❖ **Empty Tags:** A tag that only contains an open tag and no closing tag is called an Empty Tag. For Example:
, <HR> and many more.

❖ **Block Level Tags:** The block level tags start on a new line by default and occupy the entire available width. For Example: Paragraph <P>, Horizontal rule <HR>, etc.

❖ **Text Level Tags:** The text level tags are used to mark up parts of the text. These tags do not start with a new line. For Example: Bold , Subscript <sub>, etc.

Structure of HTML document

The HTML file is a text document that contains markup tags. The markup tags instruct the web browser on how to display the webpage. An HTML file is saved with .htm or .html extension.

Let us learn the basic structure of the HTML document:

<HTML>

<HEAD>

<TITLE> Title of the web page </TITLE>

</HEAD>

<BODY>

Content of the web page

</BODY>

</HTML>



REMEMBER IT!

Head contains the information which is not to be shown on the web page whereas body contains the information which is to be shown on the web page.

Designing a Web Page

We already know, how to create a basic HTML document. Now, let us learn to create a web page using some different tags.

```
<html>
<head>
<title> English Essays </title>
</head>
<body bgcolor="green">
    <h1> English Essays </h1>

    <h2> 1. Importance of trees </h2>
```

Trees give us life directly and indirectly as they are the source of oxygen production, CO₂, consumption and source of rain. They are the most precious gift to humanity on the earth. We must be grateful, give honour and preserve it for the wellness of humankind. We should understand the importance of trees in our lives and do our best to save trees to save a life, save the environment on the earth and make the earth a green earth.

```
</body>
</html>
```

Type the above in the Notepad window with the desired name.html

This file can be located in Windows Explorer, and double-click on the file icon.

The web page will appear like this:

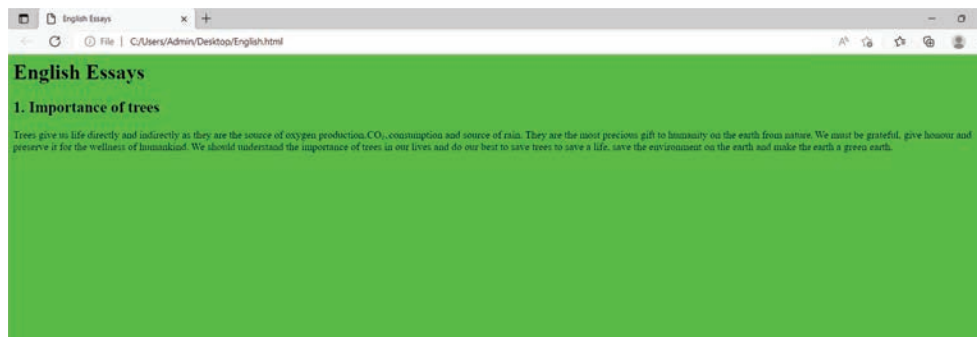


Figure 7.1 Web page



EDITING AN HTML DOCUMENT

Follow the given steps to edit an existing HTML document.

Steps:

1. Navigate to the location where you've saved your file.
2. Right-click on your file to open the context menu.

3. Move your cursor over the 'Open with ' option, and a sub-menu will open.
4. Click on the Notepad.

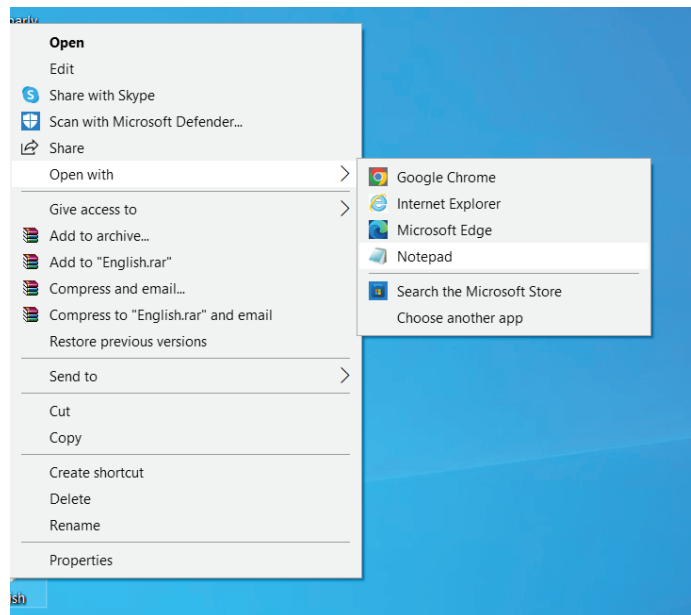


Figure 7.2 Editing HTML File

Once you are done making the changes, you need to save the file by pressing the Ctrl + S keys.



Kids' IQ

Where do we write the HTML document?

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Let's Recall

- HTML stands for Hypertext Markup Language.
- Tags are the basic building blocks of a web page.
- Attributes are characteristics that have been assigned to each tag.
- A tag that has both an open and close tag is called a Container tag.
- A tag that only contains an open tag and no closing tag, is called an Empty Tag.
- The markup tags instruct the web browser on how to display the webpage.
- An HTML file is saved with .htm or.html extension.



A. Fill in the blanks

1. HTML stands for
2. developed HTML in 1993.
3. HTML is a platform language.
4. are the basic building blocks of a web page.
5. are characteristics that have been assigned to each tag.

B. Write T for True statements and F for false statements.

1. HTML was developed in 1981. ☐
2. HTML is a very difficult language. ☐
3. Hypertext transforms a basic text into a dynamic text. ☐
4. Tags should always be surrounded by curly brackets. ☐
5. A tag that only contains an open tag and no closing tag is called a container tag. ☐

C. Answer in one word.

1. The basic building blocks of a web page.
2. A language which uses tags to format text documents and tells the browser how to display the text.
3. A formatted document that is translated and displayed by the web browser.

4. Characteristics of tags that can be used to modify them.
5. The tag starts on a new line by default and occupies the entire available width.

D. Answer the following questions.

1. What is the basic structure of the HTML document?

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2. Explain different types of HTML tags.

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3. Write the rules for writing HTML codes.

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4. Explain any three terminologies related to HTML.

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5. Write some HTML tags with their attributes.

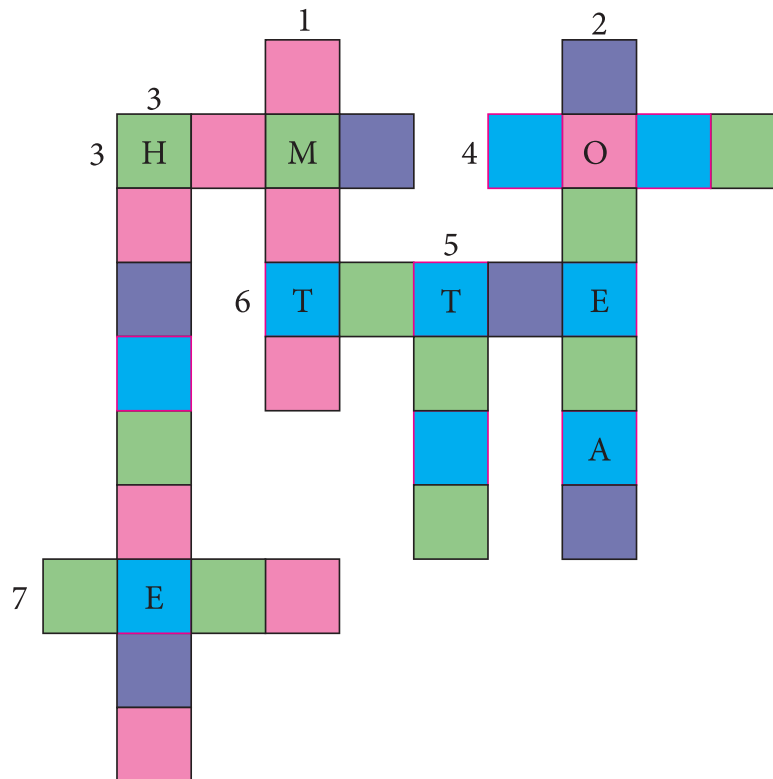
.....

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Critical Thinking

Solve the crossword using the given clues.



Down:

1. The tags which have only an opening tag.
2. Most commonly used Text Editor for web page designing.
3. A tag that transforms a basic text into a dynamic text.
5. Attribute used to change colour of the text in a web page.

Across:

3. Markup language used to create web pages.
4. Tag used to define the text to be shown on the web page.
6. Tag is used to define what is to be shown on the title bar when the web page is opened in the web browser.
7. Tag used to define header area of the web page.



Team Work

A. Surf the internet with the help of your teacher to find out the programming languages used for creating these websites.

www.youtube.com - _____

www.google.com - _____

www.facebook.com - _____

www.twitter.com - _____

B. Find out 10 website and programming language used to create it by using Google.

Name of the website	Programming language used to create the website

Remarks :- What you have learned from this exercise?

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