

HTML, CSS, Bootstrap, Javascript and jQuery



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Chapter 1

HTML

1.1 Introduction

In this chapter, various component of HTML are discussed to design a web page.

The basic structure for an HTML page is shown below.

- Entries inside the `</... />` are known as tags. Most of the tags has an opening and closing e.g. `<head>` (opening head) and `</head>` (closing head). Some of the tags do not have closing tags e.g. `<!DOCTYPE ...>` and `
`. We need to write the HTML codes inside the tags.
- The comments are written between `<!--` and `-->`.
- Here Line 1 gives the details of the ‘HTML version’ to the web-browser. The ‘html’ tells it is version 5.
- The ‘head’ tag (Lines 3-5) contains the header related tags e.g. ‘title for the page’ and ‘links for the css files’ etc.
- The ‘body’ tag (7-11) contains the actual HTML code which is displayed on the web-browser. Also, we add all the JavaScript related codes just before the closing body tag (`</body>`).

```
1 <!DOCTYPE html> <!-- tells browser above the html version -->
2 <html> <!-- beginning of the html document -->
3   <head>
4     <!-- header related tags e.g. title, links etc. -->
5   </head>
6
7   <body>
8     <!-- actual html document here -->
9
10    <!-- add JavaScript files here -->
11  </body>
12 </html>
```

1.2 First code

In below code, the message “Hello World” is displayed on the HTML page. The [Fig. 1.1](#) is the resultant HTML page.

- The title (Line 4) appears on the top of the browser.
- The tag `<h1>` is called ‘header’ tag, which has the larger size than the normal text (see the size of ‘Hello World!’).
- The tag `<p>` is called the ‘paragraph’ tag, which can be used to write the paragraphs.

```
<!DOCTYPE html>
<html>
```

(continues on next page)

(continued from previous page)

```

<head>
  <title>HTML Tutorial</title>
</head>
<body>
  <h1> Hello World! </h1>
  <p> This is the first HTML code </p>
</body>
</html>

```



Fig. 1.1: First code

1.3 Basic tags

- The [Table 1.1](#) shows the list of tags which are required for writing the basic ‘HTML’ codes i.e. without any style e.g. bold, italics and numbering etc.

Table 1.1: List of basic tags

Tag	Description	Example
h1, ..., h6	Header tag h1 to h6	<h2> Hi </h2>
p	paragraphs (Line changes at the end)	<p> Hi </p>
span	No line change after span	Hi Bye.
div	make division between contents	<div> ... </div>
a	hyperlink	see Section 1.9
center	Move content to center	<center> Hi </center>
br	Line break (no closing tag)	 or
hr	horizontal line (no closing tag)	<hr /> or <hr>
pre	preserve formatting	<pre> ... </pre>
table	insert table	see Section 1.5

- Let’s see the example of each of these tags,

Note: All the new codes are added below the previous codes in the ‘body’ tag. Therefore only newly added codes are shown in the tutorial.

```

<h2> Heading 2 </h2>
  <h6> Heading 6 </h6>

```

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