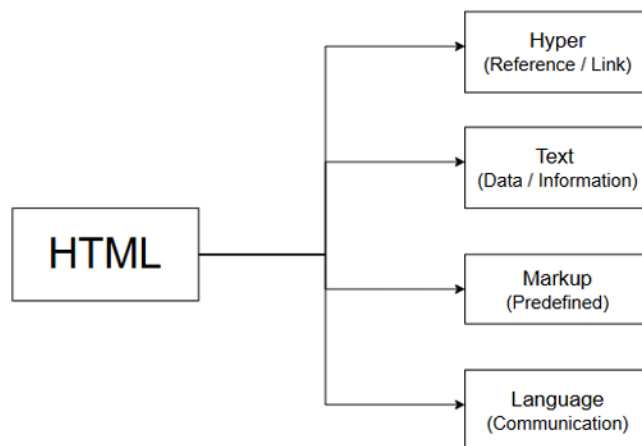# HTML 5 Basics - Structure, Tags, Types of Tags, etc.
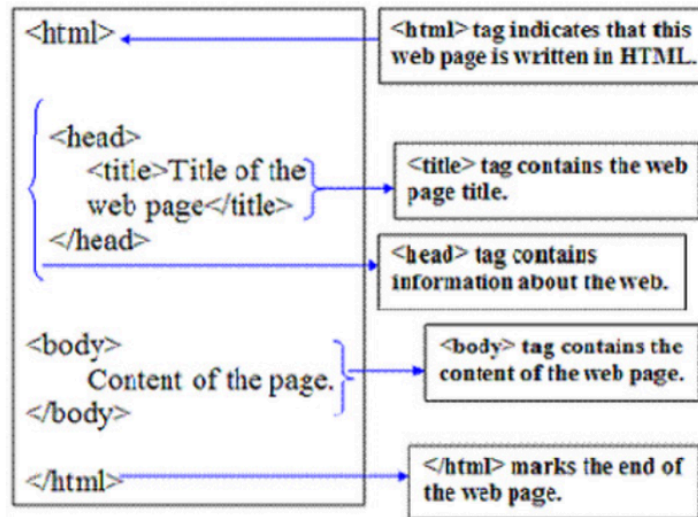
1. Introduction to HTML:

    a. HTML stands for Hyper Text Markup Language.

    b. HTML is used for developing the structure of webpage.

    c. HTML file has extension **.html or .htm**

    d. HTML files can be created by using simple text editors.

2. Structure of HTML:

    a. An HTML document is mainly divided into two parts:

    b. **head**: This contains the information about the HTML document including the title of the page, meta data, etc.

    c. **body**: This contains everything you want to display on the web page.

```
<html>                          <html> tag indicates that this
                                web page is written in HTML.

    <head>
        <title>Title of the     <title> tag contains the web
    web page</title>            page title.
    </head>
                                <head> tag contains
                                information about the web.

<body>                          <body> tag contains the
    Content of the page.        content of the web page.
</body>

</html>                         </html> marks the end of
                                the web page.
```

3. Meta Tags:

   a. **Meta Data** : The data about the data is called as Meta Data.

   b. Meta tags defined the metadata about the HTML document.

   c. Metadata is used by the browsers for how to display the content or reload the page.

4. HTML Tags:

   a. In HTML elements are represented by using tags.

   b. The predefined keywords are surrounded by '< >' is known as Tag.

   c. Tags are used to define different types of elements.

5. Types of Tags:

   a. There are two types of tags:

       i.   Paired Tags / Container Tags

       ii. Unpaired Tags / Non-container Tags / Self-closing Tags

b. Paired Tags / Container Tags:
   i.   HTML tags which contain opening tags along with its closing tags are known as paired tags.
   ii. It is also called container tags because it is capable of containing the other HTML elements inside it.
   iii. Example: <h1>.......</h1>, <div>.....</div>, etc.

c. Unpaired Tags / Non-container Tags / Self-closing Tags:
   i.   HTML tags which does not need closing tag is known as Unpaired tags.
   ii. It is also called as Non-container tags because they are not capable to contain any element inside it.
   iii. Example: <img/>, <br>, <hr>, <input>, <meta>, <link>, etc.

6. Heading Tags:
   a. HTML heading tags are used to provide headings to webpage.
   b. Headings tags are <h1>, <h2>, <h3>, <h4>, <h5>, <h6>, etc.
   c. Heading tags are paired types of tags.
   d. <h1> tag displays heading in bigger font-size whereas <h6> in lower font size.
   e. Example ⇒ <h1> Hello World! </h1>
   f. Size of Each heading tag ⇒
      i.   <h1> → 2em
      ii. <h2> → 1.5em
      iii. <h3> → 1.17em
      iv. <h4> → bold (1em)
      v.   <h5> → 0.83em
      vi. <h6> → 0.67em

g. Here, em stands for element size. 1em = 16px

7. Paragraph Tag:

    a. To provide paragraphs in web page we have to use paragraph tag.

    b. Example ⇒ <p> This is a paragraph </p>

    c. We can use multiple paragraph tags to provide paragraphs in web page.

    d. Paragraph tag is a paired tag.