



Chapter 3

HTML





HTML



HTML

HTML is a language for describing **web pages**.

HTML stands for Hyper Text Markup Language

HTML is not a programming language, it is a **markup language**

A markup language is a set of **markup tags**

HTML uses markup tags to describe web pages

HTML (Hypertext Markup Language) is used to create document on the World Wide Web. It is simply a collection of certain key words called 'Tags' that are helpful in writing the document to be displayed using a browser on Internet

```
<!-- height="450" viewBox="0 0 450 450" -->
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="bg1">
    <stop stop-color="#000000" offset="0%" />
    <stop stop-color="#101010" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#bg1)" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="0%" y1="0%" x2="100%" y2="100%" id="bg2">
        <stop stop-color="#fff" stop-opacity="0" offset="0%" />
        <stop stop-color="#fff" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1000" height="1000">
        <feOffset dy="16" in="SourceAlpha" result="offsetOut">
          <feGaussianBlur stdDeviation="4" in="offsetOut">
            <feColorMatrix values="2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix" />
          </feGaussianBlur>
        </feOffset>
      </filter>
      <fill-rule="evenodd" />
    </defs>
  </svg>
</div>
```



HTML TOOLS

HTML Terminology

Some commonly used terms in HTML are:

a) **Tag**: Tags are always written within angles brackets. it is a piece of text is used to identify an element so that the browser realizes how to display its contents'.<**HTML**> tag indicates the start of an HTML document .HTML tag can be two types

-**Paired Tags** :A tag is said to be a paired tag if text is placed between a tag and its companions tag.In paired tag ,the first tag is referred to as opening tag and the second tag is referred to as closing tag.

-**Unpaired Tags**: An unpaired tag does not have a companion tag .unpaired tag also known as singular or Stand-Alone tags.e.g:
,<hr> etc.

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="grad1">
    <stop stop-color="red" offset="0%" />
    <stop stop-color="blue" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#grad1)" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.583%" y1="19.875%" x2="100%" y2="100%" id="grad2">
        <stop stop-color="red" stop-opacity="0.5" offset="0%" />
        <stop stop-color="red" stop-opacity="0.5" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="2000" height="2000">
        <feOffset dy="16" in="SourceGraphic" result="offset"></feOffset>
        <feGaussianBlur stdDeviation="40" result="blur"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix"></feColorMatrix>
      </filter>
      <fill-rule="evenodd">
        <path d="M 48 48 C 48 48 48 48 48 48" />
      </fill-rule>
    </defs>
  </svg>
</div>
```




HTML TOOLS

HTML Terminology

b) **Attribute**: Attribute is the property of an tag that specified in the opening angle brackets. It supplies additional information like color,size,home font-style etc to the browser about a tag. E.g. most of the common attributes are height, color ,width ,src , border , align etc.

d) **ELEMENT**: Element is the component of a document's structure such as a title, a paragraph or a list. It can include an opening and a closing tag and the contents within it.

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="grad1">
    <stop stop-color="black" offset="0%" />
    <stop stop-color="white" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#grad1)" id="rect1">
</rect>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96" id="svg1">
    <defs>
      <linearGradient x1="87.565X" y1="19.875X" x2="100%" y2="100%" id="grad2">
        <stop stop-color="black" stop-opacity="0" offset="0%" />
        <stop stop-color="black" stop-opacity="1" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1000%" height="1000%" id="filter1">
        <feOffset dy="16" in="SourceAlpha" result="offsetAlpha">
          <feGaussianBlur stdDeviation="4" in="offsetAlpha">
            <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix">
            </feColorMatrix>
          </feGaussianBlur>
        </feOffset>
      </filter>
    </defs>
    <fill-rule="evenodd">
      <path d="M 0 0 L 96 0 L 96 96 L 0 96 L 0 0" />
    </path>
  </svg>
</div>
```



HTML

HOW TO CREATE AN HTML DOCUMENT

The essential tags that are required to create a HTML document are:

`<HTML>.....</HTML>`

`<HEAD>.....</HEAD>`

`<BODY>.....</BODY>`

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="grad1">
    <stop stop-color="black" offset="0%" />
    <stop stop-color="white" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#grad1)" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.5653%" y1="15.875%" x2="100%" y2="100%" id="grad2">
        <stop stop-color="black" stop-opacity="0.5" offset="0%" />
        <stop stop-color="black" stop-opacity="0.5" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="5000" height="5000">
        <feOffset dy="16" in="SourceAlpha" result="offsetAlpha"></feOffset>
        <feGaussianBlur stdDeviation="4" in="offsetAlpha" result="blurAlpha"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix"></feColorMatrix>
      </filter>
      <fill-rule="evenodd">
        <path d="M 48 48 C 48 48 48 48 48 48" />
      </fill-rule>
    </defs>
  </svg>
</div>
```




HTML

HTML Tag <HTML>

The <HTML> tag encloses all other HTML tags and associated text within your document. The format is:

<HTML>

Your Title and Document (contains text with HTML tags) goes here

</HTML>

Most HTML tags have two parts, an opening tag and closing tag. The closing tag is the same as the opening tag, except for the slash mark e.g. </HTML>. The slash mark is always used in closing tags.

```
<!-- SVG code snippet -->
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="grad1">
    <stop stop-color="red" offset="0%" />
    <stop stop-color="blue" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#grad1)" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.583%" y1="19.875%" x2="100%" y2="100%" id="grad2">
        <stop stop-color="white" stop-opacity="0" offset="0%" />
        <stop stop-color="white" stop-opacity="1" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1500%" height="1500%">
        <feOffset dy="16" in="SourceGraphic" result="offset"></feOffset>
        <feGaussianBlur stdDeviation="40" in="offset" result="blur"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix"></feColorMatrix>
      </filter>
      <full-rule="evenodd">
        <path d="M 48 48 C 48 48 48 48 48 48" />
      </full-rule>
    </defs>
    <rect width="96" height="96" fill="url(#grad2)" />
    <filter id="filter1" />
  </svg>
</div>
```



HTML

HEAD Tag <HEAD>

HEAD tag comes after the HTML start tag. It contains TITLE tag to give the document a title that displays on the browser's title bar at the top. The Format is:

<HEAD>

<TITLE>

Your title goes here

</TITLE>

</HEAD>

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="grad1">
    <stop stop-color="black" offset="0%" />
    <stop stop-color="white" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#grad1)" stroke="black" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.565X" y1="15.878" x2="15.878" y2="87.565" id="grad2">
        <stop stop-color="black" stop-opacity="0.5" offset="0%" />
        <stop stop-color="black" stop-opacity="0.5" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1500%" height="1500%" id="filter">
        <feOffset dy="16" in="SourceGraphic" result="offset"></feOffset>
        <feGaussianBlur stdDeviation="40" in="offset" result="blur"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix" />
      </filter>
      <full-rule="evenodd" />
    </defs>
  </svg>
</div>
```




HTML

BODY Tag <BODY>

The BODY tag contains all the text and graphics of the document with all the HTML tags that are used for control and formatting of the page. The Format is:

<BODY>

Your Document goes here

</BODY>

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="grad1">
    <stop stop-color="black" offset="0%" />
    <stop stop-color="white" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#grad1)" stroke="black" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.565X" y1="15.875" x2="15.875" y2="87.565">
        <stop stop-color="black" stop-opacity="0" offset="0%" />
        <stop stop-color="black" stop-opacity="1" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1000%" height="1000%">
        <feOffset dy="16" in="SourceGraphic" result="offset"></feOffset>
        <feGaussianBlur stdDeviation="40" in="offset" result="blur"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix"></feColorMatrix>
      </filter>
      <fill-rule="evenodd">
        <path d="M 48 48 C 48 48 48 48 48 48" />
      </fill-rule>
    </defs>
  </svg>
</div>
```



HTML

Attributes used with <BODY>

BGCOLOR: used to set the background color for the document Example:

<BODY BGCOLOR="yellow">

Your document text goes here.

</BODY>

TEXT: used to set the color of the text of the document Example:

<BODY TEXT="red">Introduction to HTML: Document text changed to red color

</BODY>

Document text changed to red color

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="bg-gradient">
    <stop stop-color="black" offset="0%" />
    <stop stop-color="white" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#bg-gradient)" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.583%" y1="19.875%" x2="100%" y2="100%" id="media-control">
        <stop stop-color="black" stop-opacity="0.5" offset="0%" />
        <stop stop-color="white" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1500%" height="1500%">
        <feOffset dy="16" in="SourceGraphic" result="offset"></feOffset>
        <feGaussianBlur stdDeviation="40" in="offset" result="blur"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix"></feColorMatrix>
      </filter>
      <full-rule="evenodd">
        <path d="M 48 48 C 48 48 48 48 48 48" />
      </full-rule>
    </defs>
    <rect width="96" height="96" rx="48" fill="url(#media-control)" filter="url(#media-control)" />
  </svg>
</div>
```




HTML

Attributes used with <BODY>

BGCOLOR: used to set the background color for the document Example:

<BODY BGCOLOR="yellow">

Your document text goes here.

</BODY>

TEXT: used to set the color of the text of the document Example:

<BODY TEXT="red">Introduction to HTML: Document text changed to red color

</BODY>

Document text changed to red color

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="bg-gradient">
    <stop stop-color="black" offset="0%" />
    <stop stop-color="white" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#bg-gradient)" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.583%" y1="19.875%" x2="100%" y2="100%" id="media-control">
        <stop stop-color="black" stop-opacity="0.5" offset="0%" />
        <stop stop-color="black" stop-opacity="0.5" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1500%" height="1500%" id="media-control">
        <feOffset dy="16" in="SourceGraphic" result="offset"></feOffset>
        <feGaussianBlur stdDeviation="4" in="offset" result="blur"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix"></feColorMatrix>
      </filter>
    </defs>
    <full-rule="evenodd">
      <path d="M 48 48 C 48 48 48 48 48 48" />
    </full-rule>
  </svg>
</div>
```



HTML

Attributes used with <BODY>

MARGINS: set the left hand/right hand margin of the document
LEFTMARGIN: set the left hand margin of the document
Example:

<BODY LEFTMARGIN="60">

This document is indented 60 pixels from the left hand side of the page.

</BODY>

TOPMARGIN: set the left hand margin of the document
Example:

<BODY TOPMARGIN="60">

This document is indented 60 pixels from the top
</BODY>

```
<defs>
  <linearGradient x1="100%" y1="0%" x2="0%" y2="100%" id="grad1">
    <stop stop-color="black" offset="0%" />
    <stop stop-color="white" offset="100%" />
  </linearGradient>
</defs>
<rect width="800" height="450" rx="0" fill="url(#grad1)" />
</svg>
<div class="media-control">
  <svg width="96" height="96" viewBox="0 0 96 96">
    <defs>
      <linearGradient x1="87.583%" y1="15.875%" x2="15.875%" y2="87.583%" id="grad2">
        <stop stop-color="black" offset="0%" />
        <stop stop-color="white" offset="100%" />
      </linearGradient>
      <filter x="-500%" y="-500%" width="1500%" height="1500%" id="filter">
        <feOffset dy="16" in="SourceGraphic" result="offset"></feOffset>
        <feGaussianBlur stdDeviation="4" in="offset" result="blur"></feGaussianBlur>
        <feColorMatrix values="0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0" type="matrix" />
      </filter>
    </defs>
    <rect width="96" height="96" rx="48" fill="url(#grad2)" filter="url(#filter)" />
  </svg>
</div>
```


The image features a close-up of two hands shaking in a firm grip, signifying a business agreement or partnership. The hands are wearing dark, patterned business suits. A large, bold, white 'THANKS' is centered over a red rectangular background. On the left side, there is a vertical bar composed of a grid of colorful squares in shades of blue, red, yellow, teal, purple, orange, and green. On the right side, there are several horizontal red bars of varying lengths, some with rounded ends, creating a modern, graphic design.

THANKS