# Styling

```
<h1 style="color:blue;">This is a heading</h1>
```

```
This is a paragraph.
```

```
<h1 style="background-color:red">PGDAC</h1>
```

<h1 style="border:2px solid red">Hello World</h1>

#### The HTML <head> Element

<head> Defines information about the document

<title> Defines the title of a document

<base> Defines a default address or a default target for

all links on a page

link> Defines the relationship between a document

and an external resource

<meta> Defines metadata about an HTML document

<script> Defines a client-side script

<style> Defines style information for a document

## <Doctype>

. <!DOCTYPE html>

 Note The <!DOCTYPE> declaration must be the very first thing in your HTML document, before the <html> tag.

 it is an instruction to the web browser about what version of HTML the page is written in.

# Hr (horizontal line)

<hr width=50% align=left color="red">

#### 1. Character Encoding

Defines which character set the page uses.

<meta charset="UTF-8">

#### **Viewport (Responsive Design)**

Controls how the page is displayed on mobile devices.

<meta name="viewport" content="width=device-width, initial-scale=1.0">

 $width=device-width \rightarrow fits page to device screen.$ 

initial-scale= $1.0 \rightarrow sets zoom level$ .

#### **Page Description**

Gives a short summary for search engines (SEO)

<meta name="description" content="Learn HTML metadata options with examples.">

<meta name="keywords" content="HTML, meta tags, SEO, metadata">

<meta name="author" content="Anu Mehra">

<meta http-equiv="refresh" content="30"> <!-- refresh every 30s -->

#### What is SEO?

#### (Search Engine Optimization)

SEO is the process of **improving a website** so that it ranks higher in **search engine results** (like Google, Bing).

Higher ranking  $\rightarrow$  More visibility  $\rightarrow$  More visitors.

#### <base>

 Specify a default URL and a default target for all links on a page:

#### <meta>

- The <meta> tag provides metadata about the HTML document. Metadata will not be displayed on the page, but will be machine parsable.
- Meta elements are typically used to specify page description, keywords, author of the document, last modified, and other metadata.

- The metadata can be used by browsers (how to display content or reload page), search engines (keywords), or other web services.
- Metadata is always passed as name/value pairs.

# Example

- <meta name="keywords" content="HTML, CSS, XML, XHTML, JavaScript">

<meta name="description" content="my web page ">

# Refresh page after 30 second

<meta http-equiv="refresh" content="30">

# Setting the viewport to make your website look good on all devices:

- <meta name="viewport" content="width=device-width,</p>
- . initial-scale=1.0">

# Html Listing

- 1) Ordered list
- 2) Un ordered list
- 3) definition list

#### Unordered list

```
    ------Example 1------
    noida
    delhi
    pune
```

· -----Example 2-----

```
- 
        noida
        delhi
        pune
```

| Value  | Description                                     |
|--------|---|
| disc   | Sets the list item marker to a bullet (default) |
| circle | Sets the list item marker to a circle           |
| square | Sets the list item marker to a square           |
| none   | The list items will not be marked               |
|        |   |

## OrderedList

```
. <0|>
```

```
. noida
delhi
pune
```

| Туре     | Description  |
|----------|--|
| type="1" | The list items will be numbered with numbers (default)       |
| type="A" | The list items will be numbered with uppercase letters       |
| type="a" | The list items will be numbered with lowercase letters       |
| type="I" | The list items will be numbered with uppercase roman numbers |
| type="i" | The list items will be numbered with lowercase roman numbers |

#### **HTML Definition Lists**

- A definition list is a list of items, with a description of each item.
- ✓ The <dl> tag defines a definition list.
- The <dl> tag is used in conjunction with <dt> (defines the item in the list) and <dd> (describes the item in the list):

## **HTML Images**

- ✓ Defined with the <img> tag.
- Empty tag, contains only attributes, no closing tag

#### Syntax for defining an image:

<img src="url" alt="some text">

src Attribute

Specifies the url of the Image

✓ alt Attribute

The alt attribute specifies an alternate text for an image, if the image cannot be displayed.

# **Images Alignment**

| Align=position | Image/Text Placement                             |
|----------------|--|
| Left           | Image on left edge; text flows to right of image |
| Right          | Image on right edge; text flows to left          |
| Тор            | Image is left; words align with top of image     |
| Bottom         | Image is left; words align with bottom of image  |
| Middle         | Words align with middle of image                 |

### **Image Map**

- The <map> tag is used to define a client-side image-map.
  An image-map is an image with clickable areas.
- The required name attribute of the <map> element is associated with the <img>'s usemap attribute and creates a relationship between the image and the map.
- The <map> element contains a number of <area> elements, that defines the clickable areas in the image map.

### **Image Map Example**

```
<img src="planets.gif" width="145" height="126" alt="Planets" usemap="#planetmap">
```

#### **HTML Tables**

<TABLE> table tag

<CAPTION> optional table title

<TR> table row

<TH> table column header (Bold & Centered)

<TD> table data element

## Tables Example

```
<TABLE BORDER=1>
<CAPTION>Table Caption</CAPTION>
<TR><TH>Heading1</TH>
<TH>Heading2</TH></TR>
<TR><TD>Row1 Col1 Data</TD><TD>Row1 Col2 Data</TD></TR>
<TR><TD>Row2 Col1 Data</TD><TD>Row2 Col2 Data</TD></TR>
<TR><TD>Row3 Col1 Data</TD><TD>Row3 Col2 Data</TD></TR>
</TABLE>
```

#### <TABLE> Element Attributes

| Attribute   | Value                              | Description   |
|-------------|------------------------------------|---|
| align       | left<br>center<br>right            | Specifies the alignment of a table according to surrounding text                            |
| bgcolor     | rgb(x,x,x)<br>#xxxxxx<br>colorname | Not supported in HTML5. Deprecated in HTML 4.01. Specifies the background color for a table |
| border      | 1                                  | Specifies whether the table cells should have borders or not                                |
| cellpadding | pixels                             | Not supported in HTML5. Specifies the space between the cell wall and the cell content      |
| cellspacing | pixels                             | Not supported in HTML5. Specifies the space between cells                                   |
| width       | pixels<br>%                        | Not supported in HTML5. Specifies the width of a table                                      |

#### ▼TR> Table Row Attributes

Valid for the table row: ALIGN -- left, center, right VALIGN -- top, middle, bottom BGCOLOR -- background color



```
<TABLE ALIGN="center" WIDTH="300" HEIGHT=

<TR ALIGN="left" VALIGN="top" BGCOLOR="red"

<TR ALIGN="center" VALIGN="middle" BGCOLOR="lightblue"><TD>Three</TD><TD>Four</TD>

<TR ALIGN="right" VALIGN="bottom" BGCOLOR="yellow"><TD>Five</TD><TD>Six</TD>

</TABLE>
```

#### <TD> Table Cell Attributes

Valid for the table cell:

colspan -- how many columns this cell occupies

rowspan -- how many rows this cell occupies

```
<TABLE ALIGN="center" WIDTH="300" HEIGHT="200" border="1">
<TR>
<TD colspan="1" rowspan="2">a</TD>
<TD colspan="1" rowspan="1">b</TD>
</TR>
</TR>
<TR>
<TD colspan="1" rowspan="1">c</TD>
</TR>
</TR>
</TR>
</TABLE>
```

table { border-collapse: separate; border-spacing: 5px; }

· /\* cellspacing="5" \*/

```
<caption>heading for table </caption>
```

# HTML <div> & <span> Tag

#### **HTML Block Elements**

Block level elements normally start (and end) with a new line

when displayed in a browser.

Examples: <h1>, , <<u>ul</u>>,

#### **HTML Inline Elements**

Inline elements are normally displayed without starting a new line.

Examples: <b>, , <a>, <img>

#### The HTML <div> Element

- The HTML <div> element is a block level element that can be used as a container for grouping other HTML elements.
- It is a block level element, the browser will display a line break before and after it.
- When used together with CSS, the <div> element can be used to set style attributes to large blocks of content.
- Another common use of the <div> element, is for document layout.
- The <div> tag is used to group block-elements to format them with CSS.

# Example

- . <div style="background-color:black;color:white;padding:20px;">
- . <h2>PGDAC</h2>
- . ....
- . \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/p>
- . </div>

# **HTML < frameset> Tag**

- ✓ The <frameset> tag defines a frameset.
- The <frameset> element holds one or more <frame> elements. Each <frame> element can hold a separate document.
- The <<u>frameset</u>> element specifies HOW MANY columns or rows there will be in the <u>frameset</u>.
- ✓ <<u>frameset</u>> tag attributes:

Rows="20%,80%"

Cols ="20%,80%"

## Example

## <Frame> tag Attributes

- ✓ Name- refers the name of the frame
- Src-location of the web page to be loaded
- ✓ noresize not resizable
- Scrolling auto, yes, no
- ✓ frameborder 1, 0

#### **HTML Iframes**

An <u>iframe</u> is used to display a web page within a web page.

**Syntax for adding an <u>iframe</u>**: <iframe src="URL"></iframe>

The URL points to the location of the separate page.

**Iframe** - Set Height and Width

Example

<iframe src="demo\_iframe.htm" width="200" height="200"></iframe>

Iframe - Remove the Border

Example <iframe src="demo\_iframe.htm" frameborder="0"></iframe>

Use <u>iframe</u> as a Target for a Link

**Example** <iframe src="demo\_iframe.htm" name="iframe\_a"></iframe> <a href="http://www.w3schools.com" target="iframe\_a"> W3Schools.com</a>

# <marquee> Tag

<marquee> tag is used for scrolling piece of text or image displayed either horizontally across or vertically down.

| Attribute    | Value                              | Description  |
|--------------|------------------------------------|--|
| bgcolor      | rgb(x,x,x)<br>#xxxxxx<br>colorname | Deprecated - Specifies the background color.   |
| direction    | Up, down<br>left, right            | Defines the direction of scrolling the content.  |
| loop         | number                             | Specifies how many times to loop. The default value is INFINITE, which means that the marquee loops endlessly. |
| scrolldelay  | seconds                            | Defines how long to delay between each jump.   |
| scrollamount | number                             | Defines how how far to jump.   |
| width        | pixels or %                        | Defines the width of marquee.  |

# HTML <fieldset> Tag

- The <<u>fieldset</u>> tag is used to group related elements in a form.
- The <<u>fieldset</u>> tag draws a box around the related elements.

```
<form>
<fieldset name="personalia" disabled>
<legend align="center">Personal Info:</legend>
Name: <input type="text"><br>
Email: <input type="text"><br>
Date of birth: <input type="text">
</fieldset>
</form>
```

## HTML < optgroup > Tag

 The <optgroup> is used to group related options in a dropdown list.

```
<select>
<optgroup label="Swedish Cars">
 <option value="volvo">Volvo</option>
 <option value="saab">Saab</option>
</optgroup>
<optgroup label="German Cars">
 <option value="mercedes">Mercedes</option>
 <option value="audi">Audi</option>
</optgroup>
</select>
```

# HTML Video Tag

- HTML 5 supports <video> tag also. The HTML video tag is used for streaming video files such as a movie clip, song clip on the web page.
- Currently, there are three video formats supported for HTML video tag:
- □ mp4
- □ webM
- ogg

#### Click to add title

- <video controls>
- <source src="movie.mp4" type="video/mp4">
- Your browser does not support the html video tag.
- □ </video>

#### Click to add title

<video width="320" height="240" controls autoplay loop>

- <source src="movie.mp4" type="video/mp4">
- </video>



# The multiple Attribute

- A file upload field that accepts multiple values:
- Choose files
- <input type="file" name="img" multiple>