## HTML BASIC

#### HTML Documents

All HTML documents must start with a document type declaration: <!DOCTYPE html>.

The HTML document itself begins with <html> and ends with </html>.

The visible part of the HTML document is between <body> and </body>.

### **Example:**

```
<!DOCTYPE html>
<html>
<body>
<h1>My First Heading</h1>
My first paragraph.
</body>
</html>
```

### The <!DOCTYPE> Declaration

The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.

It must only appear once, at the top of the page (before any HTML tags).

The <!DOCTYPE> declaration is not case sensitive.

The <!DOCTYPE> declaration for HTML5 is:

```
<!DOCTYPE html>
```

# HTML Headings

HTML headings are defined with the <h1> to <h6> tags.

<h1> defines the most important heading. <h6> defines the least important heading:

#### **Example:**

```
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
```

# HTML Paragraphs

HTML paragraphs are defined with the tag:

#### **Example:**

```
This is a paragraph.
This is another paragraph.
```

### • HTML Links

HTML links are defined with the <a> tag:

```
<a href="https://www.phinma.edu.ph/">This is a link</a>
```

# HTML Images

HTML images are defined with the <img> tag.

The source file (src), alternative text (alt), width, and height are provided as attributes:

#### **Example:**

```
<img src="phinma.jpg" alt=" phinma.com" width="104" height="142">
```

### HTML Elements

The HTML **element** is everything from the start tag to the end tag:

#### **Example:**

```
<tagname>Content goes here...</tagname>
Example of some HTML elements:
<h1>My First Heading</h1>
My first paragraph.
```

### HTML Attributes

- All HTML elements can have attributes
- Attributes provide additional information about elements
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"

### The href Attribute

The <a> tag defines a hyperlink. The href attribute specifies the URL of the page the link goes to:

#### **Example:**

```
<a href="https://www.phinma.edu.ph/">Visit PHINMA</a>
```

### The src Attribute

The <img> tag is used to embed an image in an HTML page. The src attribute specifies the path to the image to be displayed:

#### **Example:**

```
<img src="img_girl.jpg">
```

# The width and height Attributes

The <img> tag should also contain the width and height attributes, which specify the width and height of the image (in pixels):

#### **Example:**

```
<img src="img girl.jpg" width="500" height="600">
```

### The alt Attribute

The required alt attribute for the <img> tag specifies an alternate text for an image, if the image for some reason cannot be displayed. This can be due to a slow connection, or an error in the src attribute, or if the user uses a screen reader.

```
<img src="img_girl.jpg" alt="Girl with a jacket">
```

# HTML Formatting Elements

Formatting elements were designed to display special types of text:

- <b> Bold text
- <strong> Important text
- <i> Italic text
- <em> Emphasized text
- <mark> Marked text
- <small> Smaller text
- <del> Deleted text
- <ins> Inserted text
- <sub> Subscript text
- <sup> Superscript text

# HTML <b> and <strong> Elements

The HTML (b) element defines bold text, without any extra importance.

### **Example:**

```
<br/><b>This text is bold</b>
<strong>This text is important!</strong>
```

### HTML <i> and <em> Elements

The HTML <i> element defines a part of text in an alternate voice or mood. The content inside is typically displayed in italic.

```
<i>This text is italic</i><em>This text is emphasized</em>
```

### HTML <small> Element

The HTML <small> element defines smaller text:

#### **Example:**

<small>This is some smaller text.</small>

### HTML <mark> Element

The HTML <mark> element defines text that should be marked or highlighted:

#### **Example:**

Do not forget to buy <mark>milk</mark> today.

### HTML <del> Element

The HTML <del> element defines text that has been deleted from a document. Browsers will usually strike a line through deleted text:

### **Example:**

My favorite color is <del>blue</del> red.

### HTML <ins> Element

The HTML <ins> element defines a text that has been inserted into a document. Browsers will usually underline inserted text:

#### **Example:**

My favorite color is <del>blue</del> <ins>red</ins>.

### • HTML Tables

A table in HTML consists of table cells inside rows and columns.

## **Table Cells**

Each table cell is defined by a and a tag.

Everything between and are the content of the table cell.

### **Example:**

### **Table Rows**

Each table row starts with a and ends with a tag.

### **Table Headers**

Sometimes you want your cells to be table header cells. In those cases use the tag instead of the tag:

### **Example:**

Let the first row be table header cells:

```
Person 1
 Person 2
 Person 3
Emil
 Tobias
 Linus
16
 14
 10
```

### • HTML Table Borders

To add a border, use the CSS border property on table, th, and td elements:

```
table, th, td {
  border: 1px solid black;
}
```

# Collapsed Table Borders

To avoid having double borders like in the example above, set the CSS border-collapse property to collapse.

This will make the borders collapse into a single border:

#### **Example:**

```
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
```

# **Style Table Borders**

If you set a background color of each cell, and give the border a white color (the same as the document background), you get the impression of an invisible border:

#### **Example:**

```
table, th, td {
  border: 1px solid white;
  border-collapse: collapse;
}
th, td {
  background-color: #96D4D4;
}
```

### **Round Table Borders**

With the border-radius property, the borders get rounded corners:

```
table, th, td {
  border: 1px solid black;
  border-radius: 10px;
}
```

## • HTML Table Sizes

HTML tables can have different sizes for each column, row or the entire table.

### **HTML Table Width**

To set the width of a table, add the style attribute to the element:

### **Example:**

Set the width of the table to 100%:

```
Firstname
 Lastname
 Age
Jill
 Smith
 50
Eve
 Jackson
 94
```

### HTML Table Column Width

To set the size of a specific column, add the style attribute on a or element:

### **Example:**

Set the width of the first column to 70%:

```
Firstname
Lastname
 Age
Jill
Smith
50
Eve
Jackson
 94
```

# HTML Table Row Height

To set the height of a specific row, add the style attribute on a table row element:

### **Example:**

Set the height of the second row to 200 pixels:

```
Firstname
Lastname
 Age
Jill
Smith
 50
Eve
Jackson
94
```

# • HTML Table Headers

Table headers are defined with th elements. Each th element represents a table cell.

```
Firstname
 Lastname
 Age
Jill
 Smith
 50
Eve
 Jackson
 94
```

### **Vertical Table Headers**

To use the first column as table headers, define the first cell in each row as a element:

### **Example:**

```
Firstname
 Jill
 Eve
Lastname
 Smith
 Jackson
Age
 94
 50
```

# Align Table Headers

To left-align the table headers, use the CSS text-align property:

### **Example:**

```
th {
  text-align: left;
}
```

# Header for Multiple Columns

To do this, use the colspan attribute on the element:

### **Example:**

```
Name
Age
Jill
Smith
50
Eve
Jackson
94
```

# **Table Caption**

To add a caption to a table, use the <caption> tag:

# HTML Table Padding & Spacing

HTML tables can adjust the padding inside the cells, and also the space between the cells.

# HTML Table - Cell Padding

Cell padding is the space between the cell edges and the cell content.

To add padding on table cells, use the CSS padding property:

#### **Example:**

```
th, td {
  padding: 15px;
}
```

To add padding only above the content, use the padding-top property.

And the others sides with the padding-bottom, padding-left, and padding-right properties:

#### **Example:**

```
th, td {
  padding-top: 10px;
  padding-bottom: 20px;
  padding-left: 30px;
  padding-right: 40px;
}
```

# HTML Table - Cell Spacing

To change the space between table cells, use the CSS border-spacing property on the table element:

```
table {
  border-spacing: 30px;
}
```

# HTML Table Colspan & Rowspan

HTML tables can have cells that span over multiple rows and/or columns.

# HTML Table - Colspan

To make a cell span over multiple columns, use the colspan attribute:

#### **Example:**

```
Name
Age
Jill
Smith
43
Eve
Jackson
57
```

# HTML Table - Rowspan

To make a cell span over multiple rows, use the rowspan attribute: