

Hypertext Markup Language (HTML)

Dr. Garrett Dancik

Web development overview

- **Hypertext Markup Language (HTML)** describes the structure of a web page
 - HTML pages are composed of elements that are specified using tags
 - `<p> This is a paragraph </p>`
 - `<h1> This is a header </h1>`

Basic web page structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<!--The page header contains the title, optional styles, scripts, and metadata -->
```

```
<head>
```

```
<title>Page Title</title>
```

```
</head>
```

```
<!-- the page body, contains the elements that the user sees -->
```

```
<body>
```

```
<h1>This is a Heading</h1>
```

```
<p>This is a paragraph.</p>
```

```
</body>
```

```
</html>
```

Common paired tags

Tag	Description
<code><h1> ... </h1></code> <code><h6> ... </h6></code>	Headings from large (h1) to small (h6)
<code><p> ... </p></code>	A paragraph
<code><div> ... </div></code>	A “container” to divide page into sections
<code> ... </code>	A hyperlink
<code><form> ... </form></code>	A web form containing elements that collect user input
<code> ... </code>	Makes text bold
<code><i> ... </i></code>	Italicizes text
<code> ... </code> or <code> ... </code>	An unordered or ordered list
<code> ... </code>	A list item
<code><button type="button">... </button></code>	A clickable button
<code> ... </code>	Groups inline elements in a document

Common unpaired (single) tags

Tag	Description
<code>
</code>	A line break
<code><hr></code>	A thematic break (displayed as a horizontal line)
<code></code>	Displays the image <i>file.jpg</i>
<code><input type = "text"></code>	Text box input
<code><input type = "password"></code>	Password input (input is masked by *s)
<code><input type = "submit"></code>	A form's submit button

Tables in HTML

Tag	Description
<code><table>...</table></code>	Begins and ends the table
<code><tr> </tr></code>	Begins and ends a table row
<code><th> ... </th></code>	Begins and ends a table header cell
<code><td> ... </td></code>	Begins and ends a table data cell

Example

(CSS style not shown)

```
<table>
<tr>
  <th> First column </th>
  <th> Second column </th>
</tr>
<tr>
  <td> A </td>
  <td> B </td>
</tr>
</table>
```

First column	Second column
A	B