# HTML basics-1

Computer Science SIUE

#### HTML

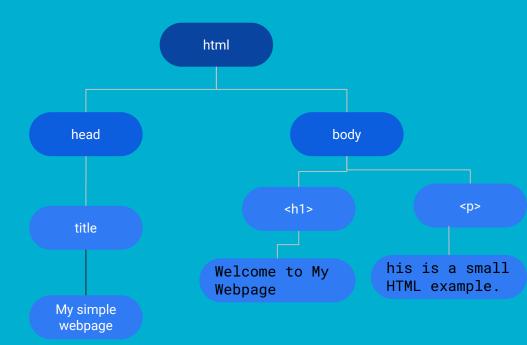


#### HIMIL

- A language to describe the structure of a webpage
- CSS describe the style
- Browser will parse this code and will display the content
- DOCTYPE is a way to tell the browser what version of html is the program is using
- May parse the page differently
- For html-5 <!DOCTYPE html>
- Nested structure
- Html tags
- Attribute, lang is an attribute specifying the languag

#### HTML

- <head>: Not the body, not part of webpage
- DOM: Document object model
- Indentation is not necessary but good programming skill
- <h1> to <h6>



#### **HTML** headers

<h1> to <h6>

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Header Types Example</title>
</head>
<body>
    <h1>This is a Level 1 Heading (h1)</h1>
    <h2>This is a Level 2 Heading (h2)</h2>
    <h3>This is a Level 3 Heading (h3)</h3>
    <h4>This is a Level 4 Heading (h4)</h4>
    <h5>This is a Level 5 Heading (h5)</h5>
    <h6>This is a Level 6 Heading (h6)</h6>
    This is a paragraph of text.
</body>
</html>
```

# HTML paragraph

```
<!DOCTYPE html>
<html lang="en">
<head>
      <title>Paragraph Tag Examples</title>
</head>
<body>
      <h1>Various Uses of the Paragraph Tag</h1>
      <h2>Normal Paragraph</h2>
      This is a normal paragraph with some text.
      <h2>Paragraph with Line Breaks</h2>
      This paragraph<br/>br>has line<br/>breaks.
      <h2>Paragraph with Emphasis</h2>
      <em>This paragraph is emphasized.</em>
      <h2>Paragraph with Strong Emphasis</h2>
      <strong>This paragraph has strong emphasis.</strong>
      <h2>Indented Paragraph</h2>
      This paragraph has an indentation of 20 pixels.
</body>
</html>
```

## HTML break tag

```
<!DOCTYPE html>
<html lang="en">
<head>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <title>Emphasis on <br> Tag</title>
</head>
<body>
      <h1>Line Breaks with &lt;br&gt; Tag</h1>
      <h2>Normal Paragraph</h2>
      This is a normal paragraph with some text.
      <h2>Using &lt;br&gt; for Line Breaks</h2>
      This paragraph<br/>br>has line<br/>br>breaks using the &lt;br&gt; tag.
      <h2>More Examples</h2>
      This is br>another example br>of using line breaks br>with the < br&gt; tag. 
      <h2>Line Breaks in Text</h2>
      You can insert line breaks<br/>br>anywhere in your text to<br/>br>control the layout.
</body>
</html>
```

## HTML text formatting

- The <em> tag indicates emphasized text, such as text having an emphasized pronunciation when spoken, and is italicized by default.
- The <strong> tag indicates text that has strong importance, and is bolded by default.
- The <cite> tag denotes a title, such as a book or song title, and is italicized by default. Ex: <cite>Spaceballs</cite> is a parody of the <cite>Star Wars</cite> trilogy. yields: Spaceballs is a parody of the Star Wars trilogy.
- The <mark> tag denotes important content that should be semantically highlighted and is rendered with a yellow background by
  default. Ex: <mark>Highlight</mark> what is important. yields: Highlight what is important.
- The <b> tag indicates text that needs attention, like key words in a document abstract or product names in a review, and renders the text in bold. Ex: Mix the **flour** and **oil** together.
- The <i> tag indicates text in an alternative voice, such as a word or phrase in a foreign language, and is rendered using italics. Ex: *Dashi* is a stock used in Japanese cooking.
- The <u> tag denotes text that should appear differently from normal text, such as misspelled words, and is underlined by default. Ex: Misspelled is often misspelled as mispelled.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>HTML Program with Comments</title>
</head>
<body>
   <!-- This is a comment explaining the purpose of the heading -->
    <h1>Welcome to My Website</h1>
   This is a paragraph of text.
   <!-- Comment within a paragraph -->
   Here's some text <!-- and here's an inline comment --> with comments.
   <1--
   This is a multi-line comment.
   It can span multiple lines.
   Useful for longer explanations.
</body>
</html>
```

#### **HTML lists**

- Ordered list
- Unordered list

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>Ordered List</title>
</head>
<body>
   <h1>Favorite Fruits</h1>
   <01>
      Apples
      Bananas
      Oranges
      Grapes
   </body>
</html>
```

## **Nested lists**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Ordered List</title>
</head>
<body>
  <h1>Favorite Fruits</h1>
  <01>
     Apples
       <u1>
            Red
            Green
            Yellow
            Dead
       Bananas
     Oranges
     Grapes
  </body>
</html>
```

#### Ordered list attribute

## **Images**

- <img> tab no end tag
- Two mandatory attributes src and alt
- Image is in the same folder as the html file
- Width attribute (auto scale height)

# Hyperlinks

Tag is <a> and attribute is href

#### HTML tables

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Table with <thead>
Example</title>
</head>
<body>
  <h1>Product Inventory</h1>
  <thead>
                                002
       Widget B
         Product ID
                                $14.99
         Product Name
                             Price
                             003
    </thead>
                                Widget C
    $9.99
       001
                           Widget A
                         $10.99
                       </body>
       </html>
```

- Tags
- <thead><</p>
- <</li>

## HTML table

```
<!DOCTYPE html>
<html lang="en">
<head>
 <title>Ordered List</title>
</head>
<style>
 table, th, td {
  border: 2px solid gray;
</style>
<body>
 <caption>State Weather Extremes</caption>
  Lowest
   Highest
```

# Spanning multiple columns and rows

```
<!DOCTYPE html>
<html lang="en">
<head>
 <title>Ordered List</title>
</head>
<style>
table, th, td {
  border: 2px solid gray; }
</style>
<body>
 <caption>Team Schedule</caption>
   Mon
    Wed
    Fri
```

```
9:00
  Warmup
 10:00
 Drills
 Skills Test
 Scrimmage
 11:00
 Film
 Weights
 </body>
</html>
```