FOUNDATIONS OF WEB DESIGN

CLASS 2

HTML Structure and Tags

https://dem-1323.github.io/foundations-of-web-design/

INTRO TO HTML

What Is It?

- HyperText Markup Language
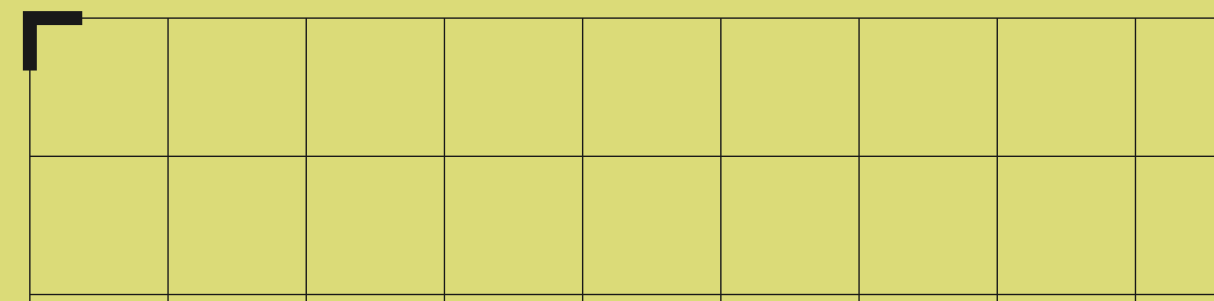- The standard language for creating web pages
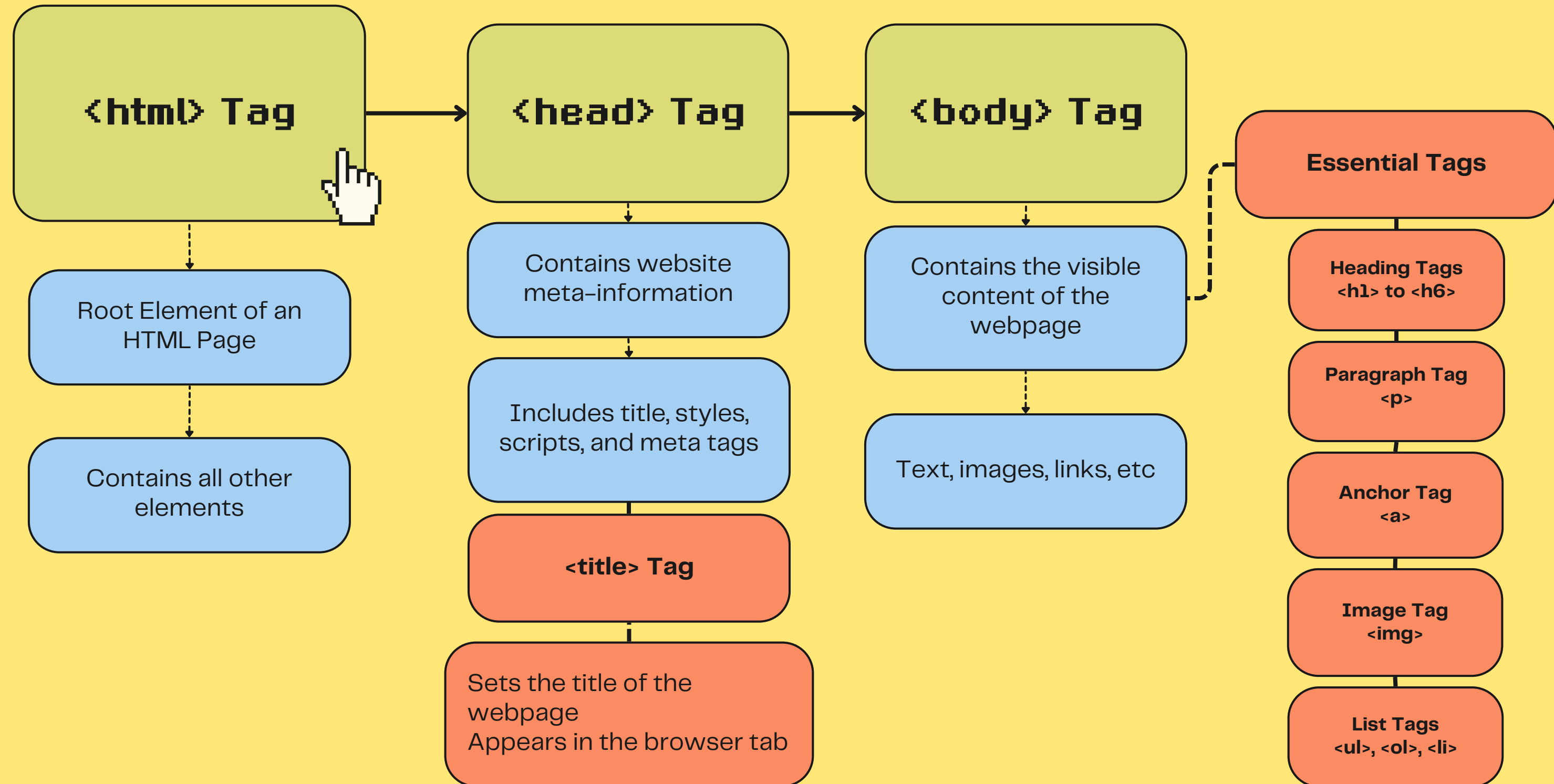- Structures content on the web

Basic Structure

```
<!DOCTYPE html>
<html>
    <head>
        <title></title>
    </head>
    <body></body>
</html>
```

Doctype Declaration

```
<!DOCTYPE html>
```

- Informs the browser about the HTML version
- Ensures proper rendering

HTML TAGS

<html> Tag

<head> Tag

<body> Tag

Essential Tags

Root Element of an HTML Page

Contains all other elements

Contains website meta-information

Includes title, styles, scripts, and meta tags

<title> Tag

Sets the title of the webpage
Appears in the browser tab

Contains the visible content of the webpage

Text, images, links, etc

Heading Tags <h1> to <h6>

Paragraph Tag <p>

Anchor Tag <a>

Image Tag <img>

**List Tags <ul>, <ol>, **

HEADING TAGS

Heading Tags <h1> to <h6>
- **Define headings**
- **<h1> is the most important, <h6> is the least**
- **Changes from larger to smaller**

Example:

<h1>This is a heading</h1>

<h2>This is a heading</h2>

<h3>This is a heading</h3>

<h4>This is a heading</h4>

.....

This is a heading

This is a heading

This is a heading

This is a heading

This is a heading

This is a heading

PARAGRAPH TAG

<p> Tag
- **Defines paragraphs**

Example:

<p>This is a paragraph</p>

<p>Lorem ipsum….</p>

This is a paragraph

Lorem ipsum dolor sit amet consectetur adipisicing elit. Ducimus fugiat enim sit quod corporis ipsam velit autem officia quidem excepturi tenetur, labore id placeat quae possimus? Aliquam expedita nemo quos!
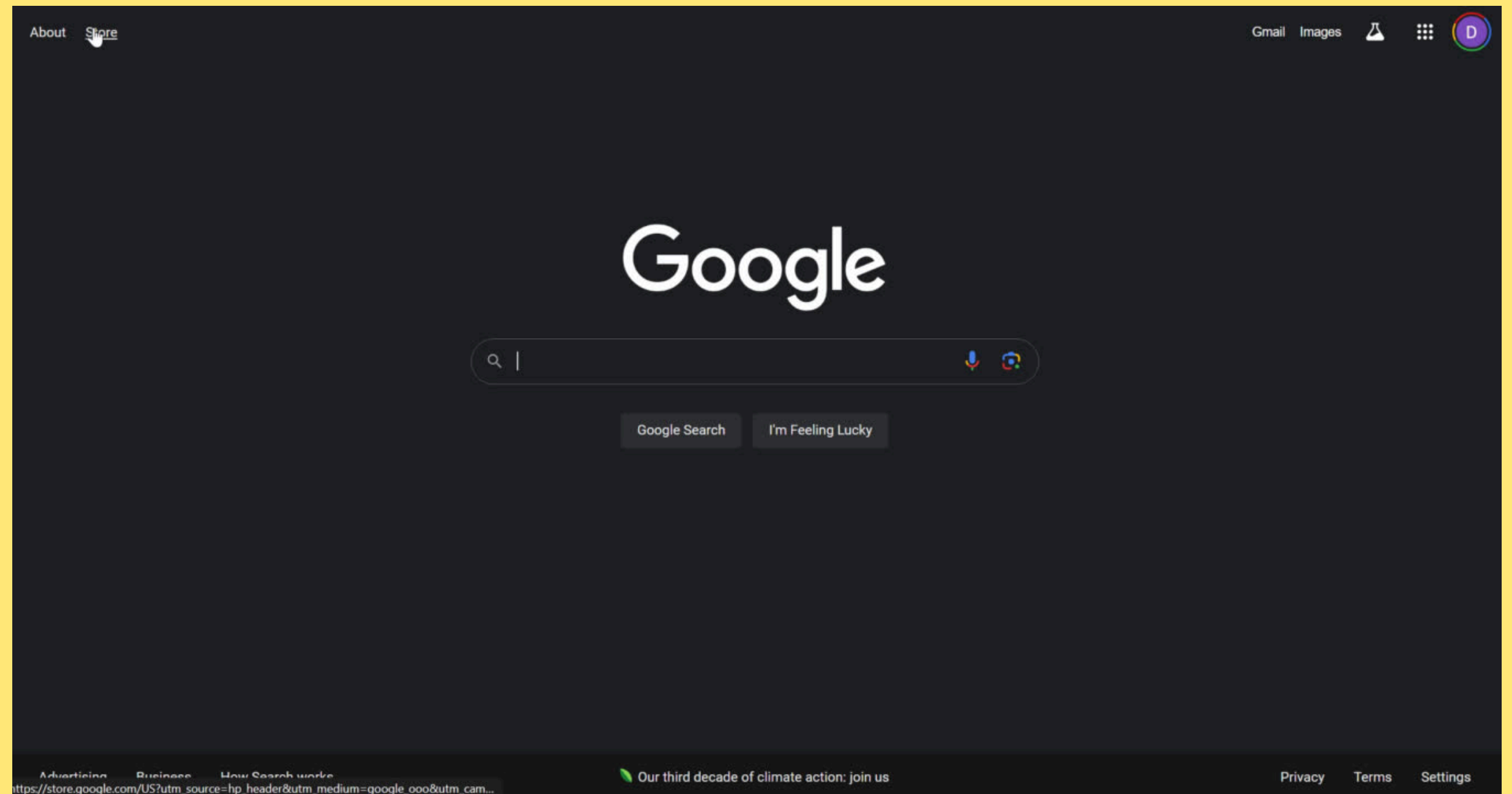
ANCHOR TAG

<a> Tag
- **Creates hyperlinks**
- **Attributes: href, target**

Example:

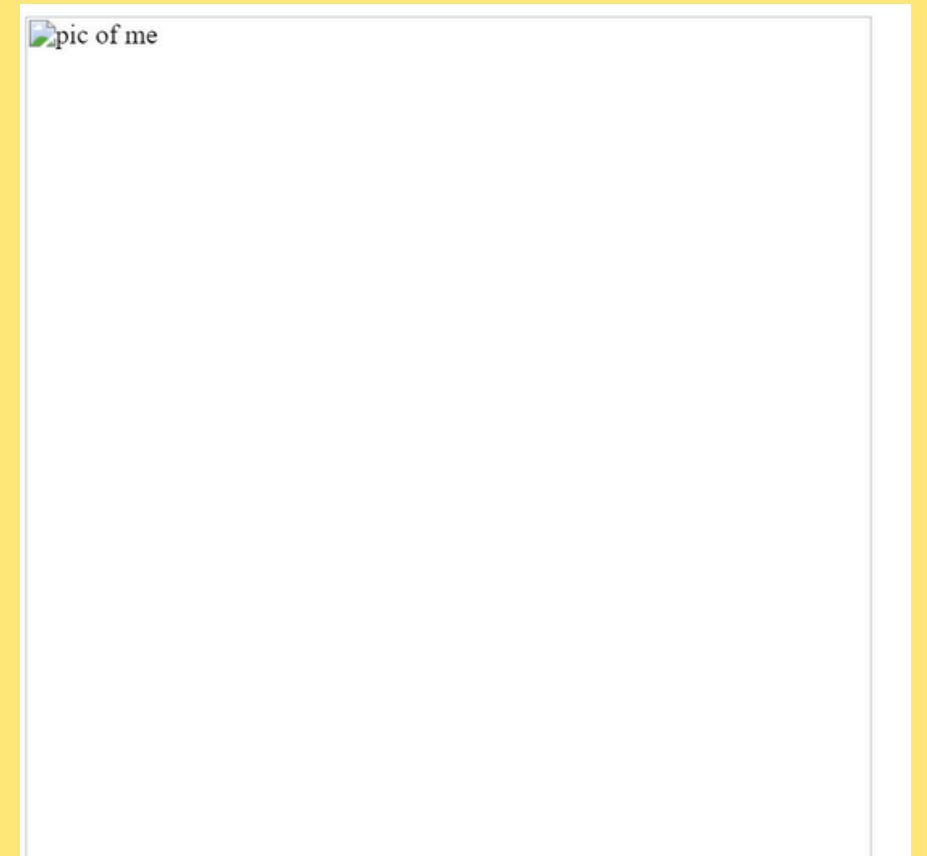Visit Google

IMAGE TAG

<img> Tag
- **Embeds images**
- **Attributes: src, alt**

Example:
<img src="me.jpg" alt="pic of me"
width="500px">

pic of me

LIST TAGS

Unordered List \ Tag
- **Defines a bullet list**

Ordered List \ Tag
- **Defines a numbered list**

\ Tag
- **Defines a list item**
- **Used with \ and \<ol>**

Example:

```
<ul>
 <li>Item 1</li>
 <li>Item 2</li>
</ul>

<ol>
 <li>First item</li>
 <li>Second item</li>
</ol>
```

- Item 1
- Item 2

1. First item
2. Second item

DIV AND SPAN TAGS

<div> Tag
- **Defines a division or section**

** Tag**
- **Defines a section in a document**

Example:
<div class="bio">This is a div for a bio
 <p>Here is a short bio in the bio div</p>
</div>
This is a span

This is a div for a bio

Here is a short bio in the bio div

This is a span

HTML ATTRIBUTES

Attributes
- Provide additional information about elements
- Always in name/value pairs like name="value"
- Common attributes: **id, class, style, src, href, alt**

CREATE A SIMPLE HTML DOCUMENT

Create a simple HTML document:
- Title: Simple HTML page
- Heading: Welcome to My Webpage
- Paragraph: This is a paragraph on my webpage.
- Link: Visit a favorite website
- Image: Add an image with a description

COMPLETE CLASS EXERCISE 2

GO TO COURSE WEBSITE:
- Click on Class Exercises
- Click **Class Exercise 2** in Week 1 Section

FOLLOW THE INSTRUCTIONS:
- **Download** starter_code.zip
- Unzip the folder and get started with your HTML file

Foundations of Web Design

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Class Exercise 2:

Creating a Web Page with Lists, Links, and Images

Goal:

Create a webpage with:

- 1 ordered list
- 1 nested unordered list
- 2 links to other websites
- 2 images

Instructions:

Download starter_code02.zip:

- Unzip the folder and get started with your HTML file

Create a New HTML File:

- In your "Week 1" folder, create a new folder named "CE02"
- Open your "CE02" folder and create an HTML file named "CE02.html"

Basic HTML Structure:

- Open your "CE02.html" file.
- Type the following basic HTML structure into the file:

COMPLETE CLASS EXERCISE 2 CONT.

CREATE A WEBPAGE WITH:

- 1 ordered list
- 1 nested unordered list
- 2 links to other websites
- 2 images