

# Lesson 2: HTML Structure and Elements

## Basic Structure of an HTML Document

Every HTML document follows a standard structure that includes essential elements:

- `<!DOCTYPE html>`: Declares the document type and version of HTML (HTML5).
- `<html>`: The root element of the webpage.
- `<head>`: Contains metadata (character encoding, title, styles, scripts).
- `<body>`: The main content of the webpage, including text, images, and links.

## Common Tags in HTML

These are frequently used tags for structuring a webpage:

- **Headings** (`<h1>` to `<h6>`): Define different levels of headings, where `<h1>` is the largest and `<h6>` is the smallest.
- **Paragraphs** (`<p>`): Used to write text content in blocks.
- **Links** (`<a>`): Used to create hyperlinks; the `href` attribute defines the destination.
- **Images** (`<img>`): Used to display images; the `src` attribute specifies the image path.
- **Divisions** (`<div>`) and **Spans** (`<span>`): Used to group elements for styling or layout purposes.
- **Lists**:
  - **Ordered List** (`<ol>`): Creates a numbered list.
  - **Unordered List** (`<ul>`): Creates a bulleted list.
  - **List Item** (`<li>`): Represents each item in a list.

## Semantic HTML

Semantic HTML improves accessibility and SEO by giving meaning to webpage sections:

- `<header>`: Defines the top section, usually containing a logo or navigation links.
- `<nav>`: Represents a navigation menu with links to other pages.
- `<main>`: Wraps the main content of the page (excluding sidebars or footers).
- `<section>`: Groups related content, like different sections of an article.
- `<article>`: Represents standalone content, such as a blog post.
- `<aside>`: Defines side content, such as sidebars, advertisements, or related links.
- `<footer>`: Contains footer content like copyright info or contact details.

## **Task: Create a Simple Webpage**

Students will build a webpage that includes:

- A heading (<h1>)
- A paragraph (<p>)
- An image (<img>)
- A list (<ul> or <ol>)
- A link (<a>)

## **Resources:**

- **YouTube:** <https://youtu.be/pQN-pnXPaVg?si=GEHZIt0jhcjxxuqw>.
- **W3Schools:** <https://www.w3schools.com/html/default.asp>
- **MDN Web Docs:** [https://developer.mozilla.org/en-US/docs/Learn\\_web\\_development/Core/Structuring\\_content](https://developer.mozilla.org/en-US/docs/Learn_web_development/Core/Structuring_content)