# Differences between HTML4 and HTML5

## New Doctype Declaration

### HTML4
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

### HTML5
<!DOCTYPE html>

## New Elements

### Structural Elements
<header>, <footer>, <section>, <article>, <aside>, <nav>

### Media Elements
<audio>, <video>

### Interactive Elements
<details>, <summary>, <dialog>

## Deprecated Elements

Some elements from HTML4 are not supported in HTML5:

<center>, <font>, <big>, <strike>, <tt>, and others.

## Form Enhancements

### New Input Types
email, url, number, range, date, datetime-local, month, week, time, search, color

### New Attributes
placeholder, required, autofocus, pattern, min, max, step

## Multimedia Support
HTML5 provides native support for audio and video without requiring plugins:

### Audio
<audio> element with controls, autoplay, and loop attributes.

### Video
<video> element with controls, autoplay, loop, and poster attributes.

## Graphics

HTML5 introduces new APIs for drawing and manipulating graphics:

### Canvas API

<canvas> element for drawing graphics using JavaScript.

### SVG Support

Improved support for Scalable Vector Graphics (SVG).

## Scripting

### JavaScript API

HTML5 includes several new JavaScript APIs, such as the Geolocation API, Web Storage API, Web Workers, and WebSockets.

### Event Handling

Enhanced event handling capabilities.

## Deprecated Attributes

Several attributes from HTML4 are no longer supported:

### Frame-related attributes

frameborder, scrolling, marginwidth, marginheight.

### Formatting attributes

align, bgcolor, border, cellpadding, cellspacing.

## Local Storage

HTML5 provides two new ways to store data on the client-side:

### LocalStorage

Allows storing data with no expiration date.

### SessionStorage

Allows storing data for the duration of the page session.

## Better Error Handling

HTML5 is designed to handle errors more gracefully, making it easier for developers to create robust applications.

## Enhanced Accessibility

HTML5 includes several new features to improve accessibility:

### ARIA (Accessible Rich Internet Applications)

Provides roles and properties to make web content more accessible.

## Mobile Device Support

HTML5 is designed with mobile devices in mind, providing features for responsive design and touch events.