Dive into development

The Amazing World of HTML PART 3





Web development

Charlies' last day on HTML

Charlie learns that HTML5 is the latest version of HTML, bringing new features and enhancements



• HTML5 introduces new elements, APIs, and improved multimedia support.



What is HTML5

- The first working draft of HTML5 was published in January 2008
- HTML5 was finally issued as a W3C Recommendation in 2014
- It's not a programming language but a markup language used to structure content on the web

HTML5 new features

- 1. < Semantic > Elements:
 - It introduced new semantic tags for structuring web content
 - They help search engines better understand the structure and content of your web page
 - most of them are <header>, <nav>, <section>, <article>,
 and <footer>



HTML5 new features

1. < Semantic Elements:

- It introduced new semantic tags for structuring web content
- They help search engines better understand the structure and content of your web page
- those are <article>, <aside>, <details>, <figcaption>,
 <figure>, <footer>, <header>, <main>, <mark>, <nav>,
 <section>, <summary>, <time>



2. <video> and <audio>:

- allow you to embed multimedia content on your web pages
- supporting video and audio playback with optional controls

3. Canvas for Graphics:

- allows you to draw 2D graphics dynamically with JavaScript
- making it suitable for creating interactive games and data visualizations



4. Local Storage:

- allows you to store key-value pairs on the client-side
- making it useful for caching, saving user preferences, or maintaining application state



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5. Geolocation:

geolocation API permits you to access a user's location

6. WebSockets:

- offer real-time communication between a client and server
- ideal for apps requiring instant updates and chat functionality



7. Form Enhancements:

- HTML5 introduced new input types and attributes
- those are :-

```
<input type="date">
<input type="email">
<input type="number">
<input type="range">
<input type="color">
```

8. Scalable Vector Graphics (SVG):

• SVG allows you to create resolution-independent vector graphics for logos, icons, and illustrations



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9. Accessibility:

- HTML5 promotes accessibility through ARIA(Accessible Rich Internet Applications) roles and attributes
- It will help screen readers and assistive technologies interpret web content more accurately

10. Web Workers:

- allow for multi-threading in web applications
- improving performance by running scripts concurrently in the background



11. Drag and Drop:

 providing a user-friendly way to move and organize content within your web apps

```
<div id="dragElement" draggable="true">
    Drag me!
</div>
<!---Mulualem Eshetu---->
```

12. Data Attributes (data-*):

 allow you to store custom data within HTML elements, which can be accessed and manipulated with JavaScript

```
<div data-user-id="123" data-role="admin"></div>
<!---Mulualem Eshetu--->
```



Key point's charli take from his journey

- Utilize semantic tags to create well-structured and accessible web pages, improving SEO and user experience
- Leverage multimedia elements for richer content and better user engagement
- Take advantage of HTML5's form enhancements for userfriendly input forms
- Implement the Geolocation API for location-based services
- Ensure accessibility with ARIA roles, broadening your user base and improving SEO
- Enhance user interactions with drag-and-drop and improve performance with Web Workers





Thanks for reading, hope you enjoyed it!

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