

Emmet

What is Emmet?

- Emmet is a plugin for text editors that helps with writing HTML and CSS quickly.
- It uses abbreviations to expand into full-fledged code snippets, speeding up the development process.

Key Features

1. HTML Abbreviations:

- Abbreviations in Emmet are shorthand notations that expand into full HTML tags.
- Example: Typing `div>ul>li*5` and pressing the Emmet expand key (usually Tab or Ctrl+E) will produce:

```
<div>
  <ul>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
    <li></li>
  </ul>
</div>
```

2. CSS Abbreviations:

- Emmet also provides shortcuts for CSS.
- Example: Typing `m10` and pressing the expand key will produce:

```
margin: 10px;
```

3. Customization:

- Emmet allows users to create custom snippets and expanders, tailoring the plugin to their specific workflow.

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4. Multi-line Editing:

- Emmet supports multi-line editing and multiple selections, making it easier to apply changes across several lines of code at once.

How to Use Emmet

1. Installation:

- Most modern code editors, such as VSCode, Sublime Text, and Atom, have Emmet built-in or available as an extension.

2. Basic Usage:

- Start typing an abbreviation and press the expand key to convert it into full code.
- Example: Typing `nav>ul>li*3>a{Item $}` will produce:

```
<nav>
  <ul>
    <li><a href="">Item 1</a></li>
    <li><a href="">Item 2</a></li>
    <li><a href="">Item 3</a></li>
  </ul>
</nav>
```

3. Advanced Usage:

- Emmet offers features like Emmet Math, filtering, and traversing which can be explored through its [official documentation](#).

Screen Readers

What is a Screen Reader?

- A screen reader is an assistive technology that reads the content of the screen aloud to users who are visually impaired or have difficulty reading text.

Key Features

1. Text-to-Speech:

- Screen readers convert digital text into synthesized speech, enabling users to listen to the content.

2. Braille Displays:

- Some screen readers can also output content to refreshable braille displays for users who prefer braille.

3. Keyboard Navigation:

- Screen readers enable users to navigate through content using keyboard shortcuts, bypassing the need for a mouse.

4. Support for Various Formats:

- Screen readers can read text in various formats, including web pages, documents, emails, and software interfaces.

Popular Screen Readers

1. JAWS (Job Access With Speech):

- A widely used screen reader for Windows.

2. NVDA (NonVisual Desktop Access):

- A free and open-source screen reader for Windows.

3. VoiceOver:

- Built-in screen reader for macOS and iOS devices.

4. TalkBack:

- Screen reader for Android devices.

How to Use a Screen Reader

1. Installation:

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- Some screen readers come pre-installed on devices, like VoiceOver on Apple devices and TalkBack on Android. Others, like JAWS and NVDA, need to be downloaded and installed.

2. Basic Navigation:

- Use keyboard shortcuts to move through the interface. For example, in NVDA, `Insert + Down Arrow` starts reading continuously, while `Tab` moves to the next focusable element.

3. Web Accessibility Considerations:

- Ensure web content is accessible by following standards such as WCAG (Web Content Accessibility Guidelines).
- Use semantic HTML, provide alternative text for images, and ensure proper ARIA (Accessible Rich Internet Applications) roles and attributes.

4. Testing:

- Test websites and applications with screen readers to ensure accessibility. Use tools like Lighthouse or Axe for automated accessibility testing.

Best Practices for Accessibility

1. Use Semantic HTML:

- Use proper HTML tags (`<header>` , `<nav>` , `<main>` , `<footer>`) to define sections of a page.

2. Provide Alternative Text:

- Use `alt` attributes on images to describe their content.

3. Ensure Keyboard Navigability:

- Make sure all interactive elements (links, buttons) are accessible via keyboard.

4. ARIA Landmarks:

- Use ARIA landmarks to improve navigation for screen reader users (`role="banner"` , `role="navigation"` , etc.).

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By understanding and utilizing Emmet, developers can significantly enhance their coding efficiency, while screen readers ensure web accessibility for all users, fostering an inclusive digital environment.