A Tool for Dyslexia and Reading Disabilities

A browser extension designed to support individuals with dyslexia and reading disabilities. We'll discuss its features, development process, and new updates.

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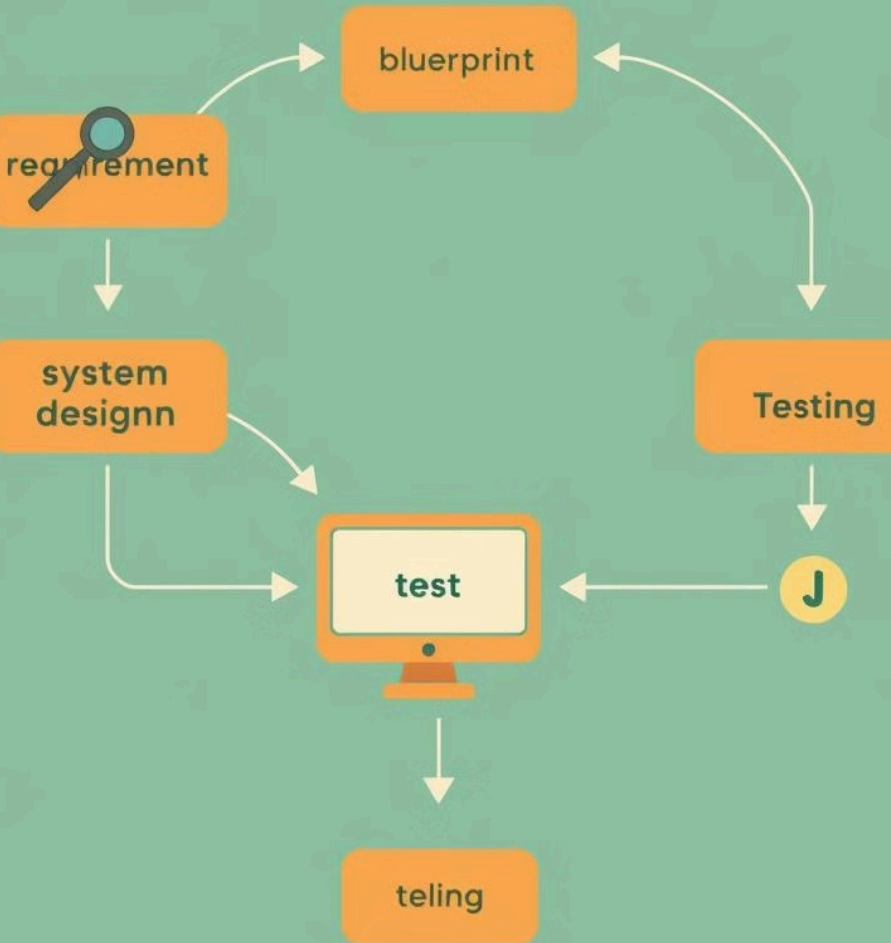
Project Overview: Enhancing Readability

Text Simplification

Rephrasing complex sentences into simpler language. This helps users understand text more easily.

Customizable Layouts

Adjust font size, line spacing, and background colors to reduce visual stress and improve clarity.

User-Centered Design Approach

1 Understanding user needs and challenges. This is the foundation of our development process.

2 Ensuring modularity, compatibility, and intuitive user interfaces. We focus on creating a seamless experience.

3 Developing the extension using HTML, CSS, and JavaScript. We use industry-standard languages for optimal performance.

4 Conducting rigorous functional and compatibility testing across multiple browsers. We ensure reliability and accessibility for all.

Extension Control

Enable Extension

Feature Toggles

Font Size Control

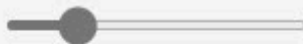Text Styling

Font Type

Colors

Highlighting

Spacing Controls

Text Settings

Reading Settings

Font Size

Bold

Italic

Enhanced Accessibility and Usability

1 Font Size Adjustments

Users can easily increase or decrease font sizes to suit their comfort level, addressing visual impairments and eye strain.
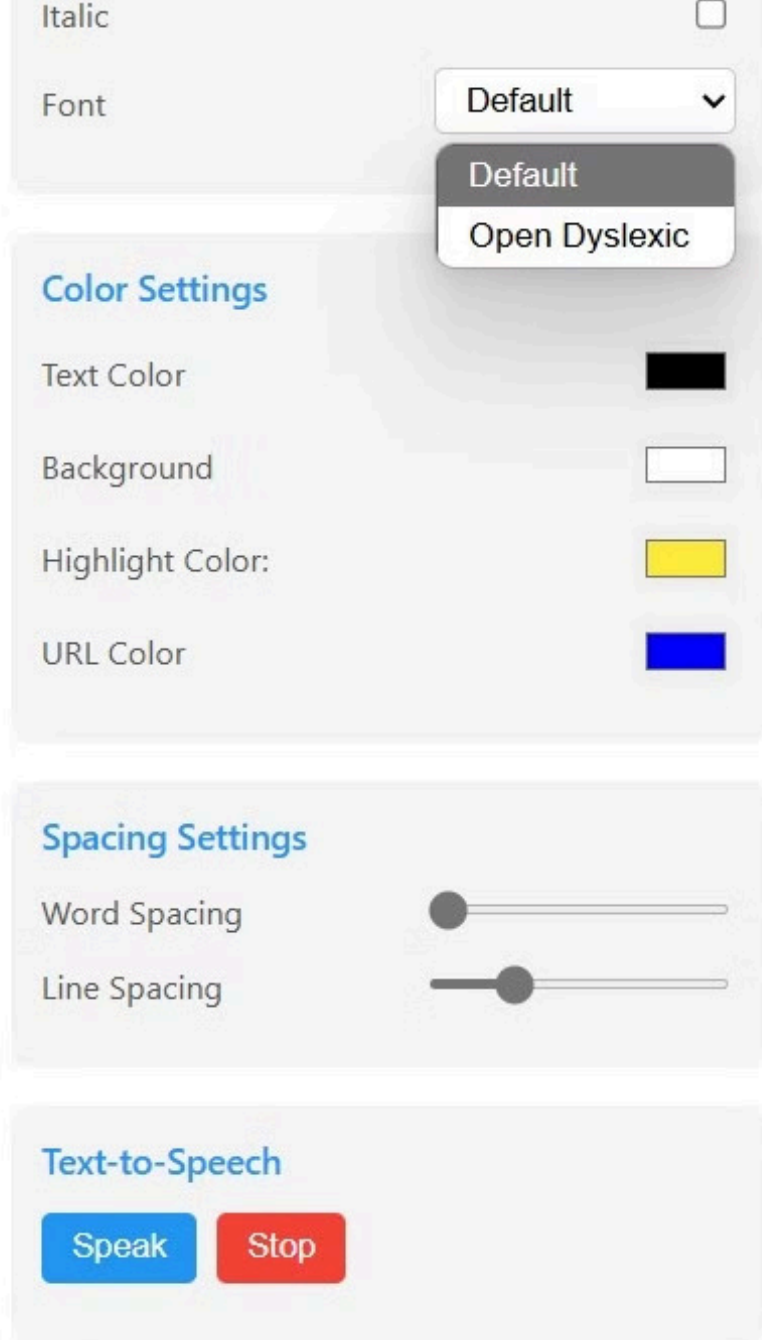
2 Font Style Options

A variety of font styles, including bold, italic, and dyslexia-friendly fonts like OpenDyslexic, are available. This allows users to choose styles that best support their individual needs.

3 Font and Background Color Customization

Users can select colors that enhance text contrast and readability, especially beneficial for users with dyslexia.

Italic ☐

Font Default ▾

Default
Open Dyslexic

Color Settings

Text Color ⬛

Background ⬜

Highlight Color: 🟨

URL Color 🟦

Spacing Settings

Word Spacing ⬤━━━━━

Line Spacing ━━⬤━━━

Text-to-Speech

Speak Stop

Additional Features: Empowerment and Support

1 **Line and Word Spacing**

Users can customize spacing between lines and words to improve text readability and comprehension, particularly helpful for dense text.

2 **Highlighting Text**

Users can highlight specific sections of text to improve focus and emphasize key information, aiding concentration during studying or reviewing.

3 **Text-to-Speech Feature**

A built-in text-to-speech functionality allows users to listen to text content, supporting auditory learners and individuals with severe reading difficulties.

Positive Impact: Creating a More Inclusive Digital Landscape
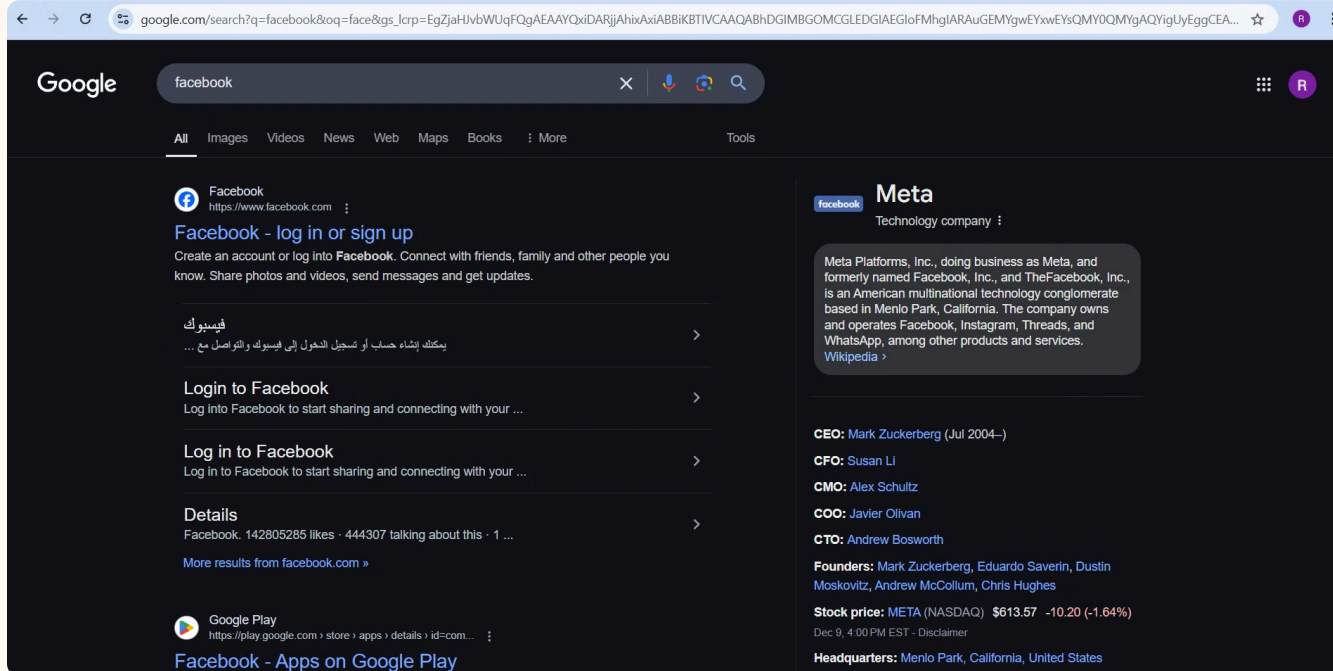
Improved Readability

Adjustments in size, style, and color cater to individual preferences and needs, making reading less stressful and more enjoyable.

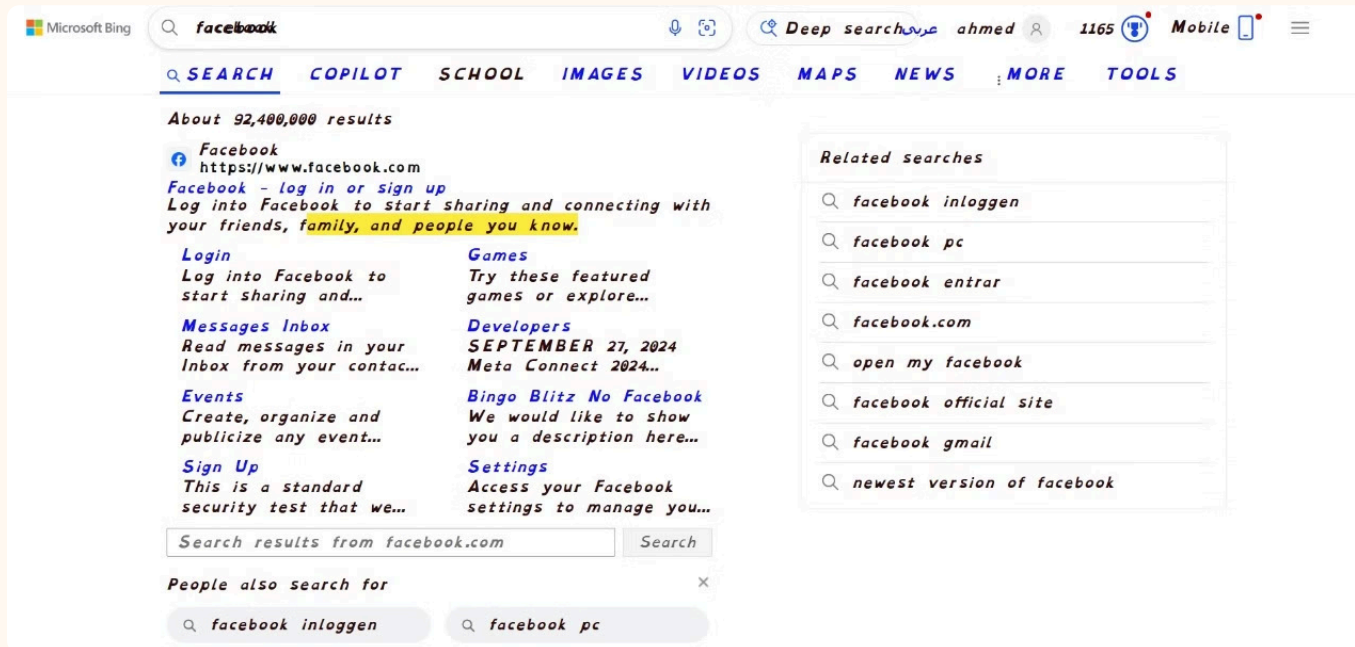## Support for Dyslexia and Visual Impairments

Customizations help mitigate common challenges faced by users with dyslexia, such as difficulty distinguishing letters.

User-Friendliness

A seamless and intuitive interface ensures that users can access these powerful features without technical barriers.
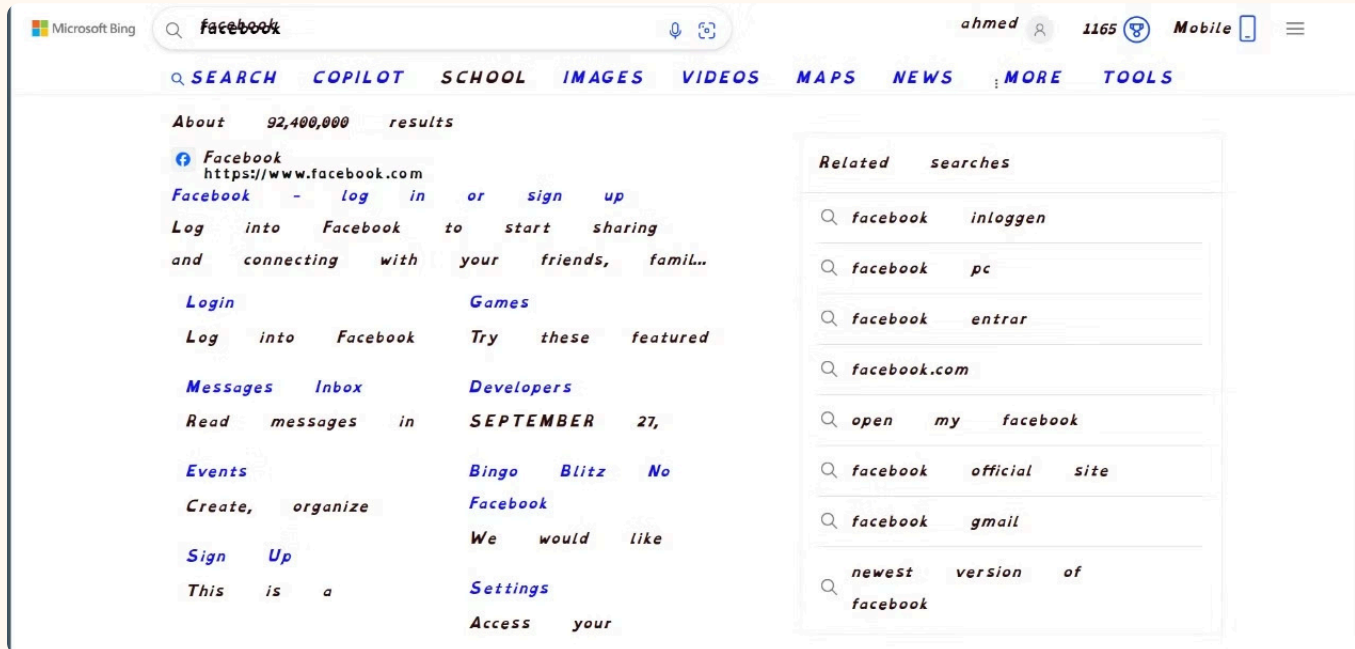
Let's test it!

Highlighting & applying OpenDyslexic font

Apply spacing between words and lines

by these features, the user can get the most helpful reading experience for him and his case.

Conclusion: Embracing Inclusivity

This browser extension is more than just a tool; it's a step toward inclusivity in digital spaces. We're empowering individuals to access information with confidence and ease.