

# 🌟 Glass PDF Generator - Chrome Extension

A modern Chrome extension that generates pixel-perfect PDFs from web pages and local files with a stunning glass-morphic interface.



## 🌟 Features

### 🎨 Glass-Morphic Interface

- **Modern Design:** Beautiful glass-morphic UI with blur effects and translucent elements
- **Responsive Layout:** Adapts seamlessly to different screen sizes
- **Smooth Animations:** Fluid transitions and micro-interactions for enhanced UX

### 📄 Advanced PDF Generation

- **Pixel-Perfect Rendering:** Canvas-based generation avoiding print CSS issues
- **High-Quality Output:** Professional PDFs with proper scaling and resolution
- **Smart Page Breaks:** Interactive page break adjustment with drag-and-drop
- **Element Exclusion:** Click to exclude unwanted elements from PDF

## Professional Tools

- **Interactive Overlays:** Visual page break management with real-time preview
- **Element Selection:** Intuitive click-to-exclude interface with highlighting
- **Custom Settings:** Comprehensive PDF customization options
- **Multiple Formats:** Support for various page sizes and orientations

## Advanced Features

- **Background Processing:** Service worker for efficient PDF generation
- **Local File Support:** Generate PDFs from local HTML files
- **Download Management:** Integrated download with progress tracking
- **Built-in Viewer:** Modern PDF viewer with zoom, navigation, and tools

## Installation

### From Chrome Web Store (Coming Soon)

1. Visit the Chrome Web Store
2. Search for "Glass PDF Generator"
3. Click "Add to Chrome"

### Manual Installation (Developer Mode)

1. Download or clone this repository
2. Open Chrome and navigate to `chrome://extensions/`
3. Enable "Developer mode" in the top right
4. Click "Load unpacked" and select the extension folder
5. The Glass PDF Generator icon will appear in your toolbar

# Usage

## Quick PDF Generation

1. **Navigate** to any web page
2. **Click** the Glass PDF Generator icon in the toolbar
3. **Click** "Generate PDF" for instant conversion
4. **Choose** save location and download

## Advanced Configuration

1. **Click** "Advanced" in the popup for detailed settings
2. **Adjust** page format, orientation, scale, and margins
3. **Enable** options like background printing and viewer mode
4. **Generate** with custom settings

## Interactive Page Management

1. **Click** "Adjust Breaks" to manage page breaks
2. **Drag** the blue lines to reposition page breaks
3. **Add** new breaks or reset to defaults
4. **Save** changes and generate PDF

## Element Exclusion

1. **Click** "Exclude Elements" to enter selection mode
2. **Click** on page elements to exclude them from PDF
3. **See** real-time highlighting of excluded elements
4. **Save** selections and generate clean PDF

# Key Benefits

## For Web Developers

- **Accurate Rendering:** No more broken layouts in PDF exports
- **Developer Tools:** Element inspection and exclusion capabilities
- **Local File Support:** Test HTML files before publishing

## For Content Creators

- **Professional Output:** High-quality PDFs for presentations and documents
- **Custom Formatting:** Full control over page layout and appearance
- **Batch Processing:** Efficient handling of multiple pages

## For End Users

- **Simple Interface:** One-click PDF generation with beautiful UI
- **Reliable Results:** Consistent, professional PDF output
- **Modern Experience:** Glass-morphic design that's pleasant to use

# Technical Specifications

## Architecture

- **Manifest V3:** Latest Chrome extension standard
- **Service Worker:** Background processing for efficiency
- **Content Scripts:** Page interaction and overlay management
- **Canvas Rendering:** High-quality image capture

## Supported Features

- **Page Formats:** Letter, A4, Legal, A3, Custom sizes
- **Orientations:** Portrait and Landscape
- **Scaling:** 10% to 500% with custom values
- **Margins:** Customizable margins in inches
- **Quality:** 300 DPI for print-ready output

## Browser Compatibility

- **Chrome:** Version 88+ (Manifest V3 support required)
- **Chromium:** Based browsers with extension support
- **Edge:** Chromium-based Edge browsers

## Privacy & Security

### Data Protection

- **No Data Collection:** Extension works entirely locally
- **No External Servers:** All processing happens in your browser
- **Secure Processing:** Uses Chrome's built-in PDF capabilities

### Permissions

- **Active Tab:** Access current page for PDF generation
- **Downloads:** Save generated PDFs to your computer
- **Storage:** Save user preferences and settings
- **Scripting:** Inject content scripts for page interaction

# Updates & Support

## Version History

- **v1.0.0:** Initial release with full feature set
- Modern glass-morphic interface
- Advanced PDF generation capabilities
- Interactive page break management
- Element exclusion system

## Getting Help

- **Issues:** Report bugs or feature requests on GitHub
- **Documentation:** Comprehensive guides and tutorials
- **Community:** Join discussions and share feedback

# Development

## Project Structure

```
chrome-pdf-extension/  
├─ manifest.json          # Extension manifest  
├─ background.js          # Service worker  
├─ popup/  
│   ├─ popup.html  
│   ├─ popup.css  
│   └─ popup.js  
├─ content/               # Content scripts  
│   ├─ content.js  
│   └─ overlay.css  
├─ pdf-viewer/            # Built-in PDF viewer  
│   ├─ viewer.html  
│   ├─ viewer.css  
│   └─ viewer.js  
├─ utils/                 # Utility functions  
│   ├─ pdf-generator.js  
│   └─ helpers.js  
└─ assets/                # Icons and resources  
    └─ icons/
```

## Key Technologies

- **JavaScript ES6+:** Modern JavaScript with async/await
- **CSS Grid/Flexbox:** Responsive layout system
- **Chrome Extension APIs:** Native browser integration
- **Canvas API:** High-quality image rendering
- **CSS Backdrop-Filter:** Glass-morphic effects



## License

This project is licensed under the MIT License - see the [LICENSE](#) file for details.



## Acknowledgments

- **Chrome Extension Team:** For excellent documentation and APIs
- **Glass-morphism Community:** For design inspiration
- **Open Source Contributors:** For libraries and tools used

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**Made with ❤️ for the web development community**

Transform any web page into a beautiful PDF with the power of modern web technologies and glass-morphic design.