

Analysis of drawj2d for Remarkable Cloud Lines v6 Conversion

1. Introduction

The integration of diverse digital content into the Remarkable tablet environment, renowned for its paper-like writing experience, presents a compelling challenge. While the Remarkable excels in handwritten notes and annotations, the seamless conversion of external digital content such as web pages, PDF documents, and images into its native, editable format remains a key area of interest. The inherent differences between the structured and often visually rich nature of these digital sources and the Remarkable's vector-based Lines v6 format necessitate a robust conversion process. This report investigates the potential of drawj2d, a command-line tool designed for creating technical line drawings in vector format, to facilitate this conversion. Its capabilities in handling drawing primitives, text, and images, along with its support for Remarkable-specific output formats, make it a candidate for bridging this gap ¹. The user's objective is to achieve a "clipping" functionality for snippets, the ability to add icons and images, and the reorganization of layout, mirroring the flexibility of handwriting on the Remarkable. This report will delve into drawj2d's functionalities, explore the specifications of the Remarkable format, outline potential conversion workflows, and highlight the inherent limitations and challenges in realizing this objective. The core problem lies in the translation of complex digital content into the simplified, editable line-based structure that defines the Remarkable experience. The effectiveness of this translation depends heavily on the level of control drawj2d offers over fundamental drawing elements and its ability to produce output compatible with the Remarkable ecosystem.

2. Deconstructing drawj2d

Drawj2d operates as a command-line program that generates drawings based on instructions provided in a descriptive text file, typically with the .hcl extension ¹. This command-driven architecture distinguishes it from graphical user interface (GUI) based drawing tools, offering a high degree of control and scriptability. The software requires the Java Runtime Environment (JRE) version 1.8 or above to run and is platform-independent, compatible with Linux, macOS, and Windows operating systems ³. Notably, drawj2d does not necessitate a traditional installation process; users simply need to extract the contents of a downloaded zip file to begin using it ³. Basic usage involves executing commands in the terminal, specifying the input .hcl file and the desired output format ³. For instance, a user can generate a PDF file of a drawing described in drawing.hcl using the command `drawj2d -T pdf drawing.hcl` ³. For Remarkable users, specific output types like `rmn` and `rmdoc` are available ³. Testing the installation can be done by navigating to the drawj2d directory in the command line and running a command such as `java -jar drawj2d.jar --help` ⁴.

Drawj2d boasts a rich set of features that are pertinent to the task of content conversion for the Remarkable. It supports a variety of drawing primitives, including lines, points, circles, ellipses, arcs, parabolas, arrows, and dimension lines ¹. For text handling, drawj2d allows the use of any font available on the system, supports LaTeX typesetting using the Computer Modern font, and crucially, includes a single-line font specifically designed for optimal rendering on devices like the Remarkable ¹. This single-line font, often referred to as "Lines," is particularly relevant as it aligns with the stroke-based nature of handwriting on the Remarkable ⁵. Furthermore, drawj2d can import various file formats, including images (png, bmp), vector graphics (svg, dxf), and PDF documents ¹. Users can also set various attributes for drawing elements, such as color, line width, and line type (solid, dashed, dotted, dash-dotted) ¹. The ability to draw to scale (e.g., 1:50) is another feature, though its direct relevance to web content and image clipping might be limited ¹. Drawj2d supports multiple output formats, including vector formats like PDF, SVG, EPS, and EMF, as well as bitmap formats like PNG and BMP ¹. Importantly for this task, it also supports intermediate formats specifically for the Remarkable, namely rmdoc and rmn ¹. For advanced users and automation purposes, drawj2d incorporates a built-in string-based scripting language called Hecl (hcl), which allows for the creation of parameterized drawings, the definition of variables, and the implementation of more complex logic ¹. This scripting capability could be instrumental in automating the conversion process and customizing the layout of the converted content. While the command-line interface of drawj2d might initially seem less approachable than a graphical environment, its text-based input and scriptability offer significant advantages for automation. An LLM designed to drive a conversion process would likely benefit from the precise control afforded by a command-line tool. The comprehensive support for various input and output formats, particularly the direct compatibility with Remarkable's file types, strongly suggests that drawj2d was developed with the Remarkable in mind, making it a potentially valuable tool for the user's stated goals.

3. Leveraging drawj2d for Web Content

To convert web content into a Remarkable-friendly format using drawj2d, the initial step involves representing the textual elements of the webpage. Drawj2d's text command, coupled with its ability to utilize various fonts, provides a means to achieve this ¹. The single-line "Lines" font available in drawj2d is particularly suitable for the Remarkable as it mimics the appearance of handwriting and ensures that the text is rendered as editable strokes on the device ⁵. For instance, a script can be written in drawj2d's .hcl language to read text from a file and render it on a Remarkable page using this font ⁵. This process involves setting the font, specifying the starting position for the text, and then iterating through the lines of the text file to draw them ⁵.

However, drawj2d's core functionalities do not include explicit support for interactive hyperlinks, a common element in web content. To address this, potential workarounds might involve representing links as plain text, perhaps with a visual distinction like underlining, or by including the URL itself as text. The interactivity of the link would be lost in this conversion,

resulting in a static representation on the Remarkable.

Regarding basic formatting found on web pages, such as headings, lists, and paragraphs, drawj2d offers several tools that can be employed. Headings could be represented using larger font sizes or by drawing a rectangle around the text using the rectangle command ². Lists could be created by indenting text or by manually drawing bullet points or numbers using circle or line primitives ². Paragraphs can be handled using the text command, which supports word wrapping within a specified width ⁹. While these methods allow for a visual structuring of the content, they might not perfectly replicate the semantic formatting of the original HTML. The translation of complex web formatting, often achieved through CSS, into drawj2d's drawing primitives will likely necessitate a degree of simplification, potentially sacrificing the original visual nuances for a more basic, line-based representation suitable for the Remarkable.

4. Processing PDF Documents with drawj2d

Drawj2d demonstrates the capability to import PDF documents, a crucial feature for converting this widely used format for the Remarkable ¹. Notably, drawj2d does not simply embed the PDF as a static image. Instead, it interprets the vector data within the PDF and redraws it as vector lines in the output, making the content editable on the Remarkable tablet ⁶. This interpretation allows users to interact with the converted PDF content on their Remarkable as if it were natively created, enabling highlighting, annotation, and even erasure of elements. For instance, a single command in drawj2d can embed a specific page of a PDF file into a Remarkable notebook ⁶.

Despite this powerful feature, drawj2d has a limitation in that it processes PDF documents on a single-page basis ¹⁰. This means that for multi-page PDF files, the conversion process would require either splitting the PDF into individual pages beforehand or using external tools that can handle the iteration through multiple pages and the subsequent combination of the drawj2d output ⁵. Tools like pdf2rmnotebook or custom scripting solutions have been suggested by the community to address this limitation ⁵. This single-page constraint introduces an additional step in the workflow for multi-page documents, requiring the LLM to manage this pre-processing or utilize external utilities to achieve a complete conversion. However, the ability to render PDF content as editable vector lines remains a significant advantage, aligning well with the user's desire for a handwriting-like interaction with the converted material.

5. Integrating Images and Icons

Drawj2d supports the import of images in various formats, including png, bmp, pdf, svg, and dxf ¹. This capability allows for the integration of visual elements, such as icons and other graphics, into the content being prepared for the Remarkable. When these images are processed by drawj2d and rendered on the Remarkable, they are approximated using monochrome lines ⁶. This conversion to a monochrome, line-based representation is due to the Remarkable's primarily monochrome display.

For the specific purpose of incorporating icons, which are often available in standard image formats, drawj2d can likely import these and position them appropriately within the drawing using its coordinate system and positioning commands ². Given the vector-based nature of both drawj2d and the Remarkable's native format, using icons in SVG format might yield better results compared to raster images like PNG or JPG. SVG images are scalable without loss of quality and can be directly interpreted as vector paths, potentially leading to a sharper and more editable representation on the Remarkable. In contrast, raster images would need to be approximated by a series of monochrome lines, which might result in a less crisp visual appearance. The loss of color information during the monochrome conversion is an important consideration, as icons often rely on color to convey meaning. The conversion process might need to account for this by using different line thicknesses or patterns to represent variations that were originally conveyed through color.

6. Controlling Layout and Organization

Drawj2d provides a robust set of features for controlling the layout and organization of drawing elements, which are essential for structuring web content, PDF information, and integrated images effectively for the Remarkable. The program operates within a coordinate system where units can be specified as meters or millimeters, with millimeters being the native unit ¹. The `unitlength` command allows for scaling the drawing to different dimensions ². Page dimensions can also be set using command-line options like `-W` for width and `-H` for height, enabling the user to match the Remarkable's screen dimensions ¹. The dimensions of the Remarkable 2 screen are approximately 157 mm in width and 209 mm in height ⁶.

For positioning elements, drawj2d offers commands like `moveto` to set the drawing cursor to specific coordinates ². Relative movements can be achieved using commands like `moverel` and `movepolar`, allowing for precise placement of subsequent elements based on the current cursor position ⁹. A particularly powerful feature for organizing complex layouts is the `block` command ⁹. This command allows users to define a group of drawing elements as a block, which can then be subjected to transformations like rotation, flipping, and scaling as a single unit ⁹. This capability could be very useful for clipping sections of content and reorganizing them on a Remarkable page.

Furthermore, drawj2d's built-in scripting language, Hecl, provides advanced capabilities for layout manipulation ¹. Using Hecl, one can define variables to store coordinates or dimensions, use loops to generate repetitive elements, and implement conditional logic to adjust the layout based on the content being converted ⁹. This scripting extensibility allows for a high degree of automation and customization in how content is arranged on the Remarkable page. The combination of precise coordinate control, block transformations, and the power of the Hecl scripting language makes drawj2d well-equipped for handling the layout and organization requirements of converting diverse digital content for the Remarkable.

7. Understanding the Remarkable Cloud Lines v6

Format

The Remarkable tablet utilizes a proprietary file format for storing notebooks and annotations. The most current version of this format, known as Lines v6, corresponds to software releases within system software 3.0 and later ¹³. This format is based around a Conflict-free Replicated Data Type (CRDT) sequence, which is documented in the open-source project [ricklupton/rmscene](#) ¹³. The rmscene library, primarily written in Python, allows for the reading and parsing of v6 files, including the extraction of both drawn lines and text ¹⁴. Associated with this library is the rmc tool, which can convert .rm files (the raw "lines" sequence files) to other formats like SVG, PDF, and Markdown ¹⁴.

A Remarkable notebook, in its native form, consists of the raw "lines" sequence files (with the .rm extension) along with additional metadata files that record information about pages, user preferences, and document titles ¹³. The .rm file itself is a contiguous, uncompressed binary format that stores pages, layers, lines, and points with attributes such as coordinates, pressure, and pen rotation ¹⁶. For transferring notebooks to and from the Remarkable, two primary archive formats are used: .rmdoc and .rmn ³. The .rmdoc format is a zip archive, while .rmn is a tar archive, both essentially containing the same underlying data ³. The .rmn format, as detailed in the reMarkable Connection Utility (RCU) manual, is the preferred format for backups as it is lossless and includes the raw editable data (.rm files), metadata, and any custom templates used in the notebook ²². The Remarkable's native format is fundamentally optimized for the creation and manipulation of handwritten notes and annotations, focusing on strokes and basic text rendering ⁶.

Understanding this underlying structure is crucial for ensuring that content generated by drawj2d can be correctly interpreted and rendered by the Remarkable software. While drawj2d directly supports outputting to .rmdoc and .rmn, knowing that these are containers for the CRDT-based .rm files provides a deeper understanding of the compatibility and potential for more advanced manipulations if needed. The Remarkable's focus on a simplified, stroke-based format implies that complex formatting and interactive elements from source content might not have direct equivalents, influencing the conversion strategies employed.

8. Mapping drawj2d Features to Remarkable Lines v6 Requirements

The following table summarizes the compatibility between key features of drawj2d and the requirements and characteristics of the Remarkable Lines v6 format:

Feature Category	drawj2d Capability	Remarkable Lines v6 Format	Compatibility Assessment
Drawing Primitives	Lines, circles, rectangles, etc. (vector-based)	Stores vector-based strokes (lines, curves, etc.) in .rm files.	High: Direct compatibility as both use vector graphics.

Text Handling	Any font, LaTeX, single-line "Lines" font	Supports basic text rendering; drawj2d's single-line font is well-suited.	High: Single-line font provides a good match for editable text on Remarkable. Other fonts might render as outlines ⁶ .
Image Import	png, bmp, pdf, svg, dxf	Supports embedding of images (converted to monochrome lines by drawj2d).	Medium: Drawj2d supports import, but Remarkable displays in monochrome ⁶ . SVG might be preferable for better quality ⁸ .
PDF Processing	Import and interpretation as vector lines (single-page at a time)	Can display PDFs. Drawj2d's approach creates editable vector lines ⁶ .	Medium: Good for editability, but single-page limitation requires external handling for multi-page documents ¹⁰ .
Layout Control	Coordinate system, units, positioning commands, block transformations, Hecl script	Page dimensions (fixed), organization through layers within .rm files ¹⁶ .	High: Drawj2d offers good control over layout that can be mapped to Remarkable's page structure ¹ . Hecl allows for complex organization ¹ .
Output Formats	.rmdoc (zip), .rmn (tar)	Native formats for transferring notebooks to the Remarkable cloud and device ¹ .	High: Direct output to these formats simplifies the transfer process.
Interactive Links	No explicit support.	No native support in .rm format.	Low: Requires creative workarounds if link functionality is desired.
Color Support	Supports color definitions ¹ .	Primarily monochrome display ⁶).	Low to Medium: Color information will largely be lost on standard Remarkable devices ⁶ . Newer Pro models have limited color support that drawj2d can potentially

			leverage ⁶ .
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The analysis indicates a fundamental compatibility between drawj2d's vector-based approach and the Remarkable's Lines v6 format. The shared use of vector graphics for drawing primitives and the availability of a single-line font in drawj2d align well with the Remarkable's strengths in handling editable, stroke-based content. Furthermore, the direct support for Remarkable-specific output formats simplifies the integration process. However, certain limitations of the Remarkable, such as its primarily monochrome display, and the single-page PDF processing constraint in drawj2d will influence the design and complexity of any conversion workflow. The lack of native support for interactive links in both systems also presents a challenge for converting web content with hyperlinks.

9. Developing a Conversion Workflow

A potential workflow for converting web content to a Remarkable-compatible format using drawj2d would involve several steps. First, the structured content of the webpage needs to be extracted using web scraping techniques. Tools like XPath or CSS selectors can be employed to target specific elements such as text, headings, lists, and images from the HTML of the page ²⁵. For less structured content, simpler methods like parsing the plain text might be necessary ²⁷. Second, these extracted web elements need to be mapped to corresponding drawj2d commands. Text can be translated using the text command with the "Lines" font, while headings and other formatted elements might require using a combination of text commands with different font sizes or drawing primitives like rectangles ². Images would be embedded using the image command, specifying the path to the image file ². Finally, drawj2d would process the generated .hcl file to produce an .rmdoc or .rmn file, which can then be transferred to the Remarkable ¹.

For converting PDF documents, the workflow would begin with an optional step of splitting multi-page PDFs into single pages using tools like PDFsam Basic or scripting ⁵. Then, for each page, the content can be embedded into a drawj2d drawing using the image command, leveraging drawj2d's ability to interpret the PDF as vector lines ⁵. Alternatively, more advanced techniques could be explored to extract specific elements from the PDF and represent them using drawj2d primitives. The resulting drawj2d output would again be an .rmdoc or .rmn file. Converting images would involve ensuring the image is in a format supported by drawj2d (png or svg are preferable). The image command in drawj2d would then be used to embed the image into a .hcl file, which is subsequently processed to create a Remarkable-compatible file ².

The automation of this entire process, especially the mapping of source content to drawj2d commands and the handling of different content types, is where an LLM would play a crucial role. The LLM would need to be trained to understand the structure and semantics of web content and PDFs and to generate the appropriate drawj2d .hcl syntax to represent them visually on the Remarkable. This would likely involve careful prompt engineering and potentially fine-tuning the LLM on examples of desired conversions.

10. Limitations and Challenges

Several limitations and challenges need to be considered when aiming to convert web content, PDFs, and images to the Remarkable format using drawj2d. Accurately representing the complex formatting and diverse visual structures found on web pages and in PDF documents within drawj2d's line-drawing paradigm can be challenging ⁵. This might lead to simplifications and a potential loss of some of the original formatting or visual fidelity. The Remarkable's primarily monochrome display means that any color information present in the source content, whether from web pages, PDFs, or images, will be lost or mapped to grayscale by drawj2d ⁶.

The single-page PDF processing limitation in drawj2d necessitates the use of external tools or additional scripting to handle multi-page documents, adding complexity to the overall workflow ¹⁰. Neither drawj2d nor the Remarkable's native .rm format natively supports interactive hyperlinks, requiring creative workarounds if this functionality is desired in the converted content. There is also a learning curve associated with drawj2d's descriptive language, which might require some initial effort to master for effective content representation.

Furthermore, the official documentation for the Remarkable Lines v6 format is limited. The detailed specifications rely on reverse-engineered information and community efforts, primarily through projects like rmscene ¹³. This lack of comprehensive official documentation could pose challenges in ensuring full compatibility and understanding all the nuances of the format, potentially making the conversion process somewhat reliant on community knowledge and ongoing research. Achieving a perfect, pixel-level replication of the original content on the Remarkable is unlikely due to the fundamental differences between the technologies involved and the Remarkable's focus on a simplified, handwriting-centric user experience. The conversion process will likely involve trade-offs between visual accuracy and the desired level of editability and natural interaction on the Remarkable.

11. Conclusion and Future Directions

In summary, drawj2d presents a promising tool for converting web content, PDF documents, and images into a format suitable for the Remarkable cloud Lines v6 format. Its strengths lie in its ability to generate vector-based drawings, its direct support for Remarkable output formats (.rmdoc and .rmn), and its built-in scripting language (Hecl), which allows for automation and customization of the conversion process. However, limitations such as the monochrome output on the Remarkable, the single-page PDF processing constraint in drawj2d, and the challenges in perfectly replicating complex formatting need to be carefully considered.

Achieving the user's objective of "clipping" snippets, adding icons/images, and reorganizing the layout using drawj2d appears feasible, although it will likely require a significant development effort. The control over layout offered by drawj2d, especially with the block command and Hecl scripting, provides the necessary tools for content manipulation. Further

exploration of drawj2d's command reference ¹ and scripting capabilities ⁹ will be crucial. Experimentation with various web scraping and PDF extraction techniques will be necessary to obtain structured content that can be effectively translated into drawj2d commands. Developing .hcl templates or scripts tailored to common content types and desired layouts will be a key step in the automation process. For more fine-grained control over the Remarkable's native format, investigating tools like rmscene ¹³ could be beneficial. It might also be prudent to consider alternative tools or hybrid approaches ²⁹ if drawj2d alone does not fully meet all the requirements. The automation of this conversion process using an LLM will require careful prompt engineering and a deep understanding of both drawj2d and the Remarkable's technical specifications. The evolving nature of web technologies and the Remarkable's software suggests that the conversion solution might need to be adaptable and updated over time to maintain compatibility and effectiveness.

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