1. Overview

ComPDFKit Conversion SDK is a high-performance library designed for extracting and transforming the data within your PDF files, such as text, images, tables, links, and annotations, into various file formats. Our Conversion SDK retains the original document layout and the properties of the file data, ensuring a seamless document conversion experience.

Effortlessly integrate the ComPDFKit Conversion SDK into your projects in just a few steps, and enable the following file format conversions:

- Convert PDF to Word (.docx)
- Convert PDF to Excel (.xlsx)
- · Convert PDF to PowerPoint (.pptx)
- Convert PDF to HTML (.html)
- Convert PDF to CSV (.csv)
- Convert PDF to Image (.png, .jpg, .jpeg, .bmp, .tiff)
- Convert PDF to Plain Text (.txt)
- Convert PDF to Rich Text Format (.rtf)
- Convert PDF to Structured Data (.json)
- Convert PDF to Markdown (.md)

Harness the power of ComPDFKit Conversion SDK and take your document processing to the next level with intelligent tools designed for accuracy and efficiency. To enhance your format conversion results, ComPDFKit offers AI-powered document tools with the following capabilities:

- Optical Character Recognition (OCR)
- Layout Analysis
- Table Recognition

1.1 Why ComPDFKit Conversion SDK

• Mature Technology

With years of technology accumulation, we have established a complete mechanism of product iteration to offer a continuous guarantee for product competitiveness.

• Complete PDF and Format Conversion Functionalities

Our comprehensive features can meet diverse needs and are easy for our customers to use without training costs.

High-quality Service

professional service and technical support to quickly respond to users' feedback through onsite service or remote support like telephone, email, etc.

Independent Intellectual

Property Rights

Our technology is independent and compliant with ISO, helping enterprises conduct international business without considering copyright risks.

1.2 ComPDFKit Conversion SDK

The ComPDFKit Conversion SDK is designed to facilitate the effortless conversion of PDF files into various other formats, all while preserving the original layout and formatting of the documents. In this guide, we will explore the ComPDFKit Conversion SDK and demonstrate how to utilize it within your Mac projects.

1.3 License & Trial

The ComPDFKit Conversion SDK is a commercial SDK that requires a license to grant developers the right to develop and distribute their applications. In development mode, each license is only valid for one device ID. ComPDFKit provides flexible licensing models, please contact our marketing team for more information. However, even if you have a license, it is prohibited to distribute any documents, sample code, or source code of the ComPDFKit Conversion SDK to any third parties.

If you do not have a License, please feel free to contact the ComPDFKit Team to obtain a License to try the ComPDFKit Conversion SDK.

2. Getting Started

With just a few lines of code, you can easily integrate the ComPDFKit Conversion SDK into your project. In this section, we will introduce the package structure of the ComPDFKit Conversion SDK for objective-c, system requirements for running it, methods of integration, as well as how to run the Demo.

2.1 System Requirements

Development	System	Development	Notice
Platform	Requirements	Environment	
Mac	- macOS 10.15 and above (Intel and Apple M1 chips).	Xcode 13.0 or higher.	The ComPDFKit Conversion SDK for iOS currently does not support OCR. The ComPDFKit Conversion SDK only supports real machines with arm64 and armv7 architectures and currently does not support emulators.

2.2 SDK Package Structure

You can contact us to get our PDF format conversion SDK package. The ComPDFKit Conversion SDK for Objective-C contains the following files:

- "doc" API reference and developer guide.
- "lib" Contains ComPDFKit Conversion SDK dynamic libraries (arm64).
- "samples" Folder with sample projects in Objective-C.
- "resource" Contains font files and OCR models.
- "release_notes.txt" Release notes.
- "legal.txt" Legal and copyright information.



2.3 How to Run the Demo

ComPDFKit Conversion SDK provides demos in the "samples" folder. Before running the demo, make sure you have configured your environment correctly and installed CMake (3.0 or higher) on your machine. To run the demo, you can

follow these steps:

- 1. Open a terminal window and navigate to the "samples/demo" folder of the ComPDFKit Conversion SDK.
- 2. Enter the following command to run the demo.

```
./RunDemo.sh
```

Output files (Word, Excel, PowerPoint, etc.) will be generated in the "samples/output_files" folder.

2.4 Apply the License

You need to initialize the ComPDFKit Conversion SDK with a license before calling any API. You can contact ComPDFKit team to get a trial license.

Sample

```
#import <Foundation/Foundation.h>
#import "conversion.h"
#import "common.h"

// Verify the license
NSInteger licenseResult = [LibraryManager licenseVerify:@"<your_license_string>"];
if (licenseResult != 0) {
    // Handle license error
}
```

3. Conversion Guides

ComPDFKit Conversion SDK allows developers to use a simple API to convert PDF to the most commonly used file formats like Word, Excel, PPT, HTML, CSV, PNG, JPEG, RTF, TXT, JSON, Markdown, etc. It provides a wealth of customized conversion options, such as whether to include images or annotations in PDF documents, whether to enable OCR or layout analysis, etc.

3.1 Get Conversion Progress

ComPDFKit Conversion SDK obtains the conversion progress through block callbacks. The following example demonstrates how to get the conversion progress while performing a PDF to Word task:

```
[LibraryManager setProgress:^(int current, int total) {
    NSLog(@"conversion rate: %d/%d", current, total);
} isMT:YES];

WordOptions *options = [[WordOptions alloc] init];
[CPDFConversion startPDFToWord:@"input.pdf" password:@"" outputPath:@"output.docx" options:options];
```

3.2 Cancel Conversion Task

ComPDFKit Conversion SDK supports interrupting your ongoing conversion task at any time. The following example demonstrates how to interrupt your ongoing conversion task:

```
[CPDFConversion cancel];
```

3.3 Select Page Range for Conversion

ComPDFKit Conversion SDK supports converting a specific page range. If an empty string is passed, it will convert all pages. Below is an example showing how to specify a page range during conversion:

```
WordOptions *options = [[WordOptions alloc] init];
options.pageRanges = @"1-3,5,7-9";
```

3.4 Contain Image and Annotation Options

Overview

In the process of converting PDF documents into various formats, ComPDFKit Conversion SDK offers two additional options for users: one option to determine whether images are included in the generated document, and another to decide if annotations from the PDF file are to be retained.

- With the containImage option enabled, ComPDFKit Conversion SDK will extract the images from the PDF document and embed them in the corresponding pages and positions in the output file. For areas with overlapping images, ComPDFKit Conversion SDK merges these images into one and embeds it into the exact location on the corresponding page of the output file.
- When the containAnnotation option is selected, most annotations are converted into raster images and embedded at the respective positions within your document. However, certain types of annotations, such as highlights, underlines, strikeouts, and squiggly, are converted into their respective formatting equivalents in the converted Word, PPT, and HTML documents, and are marked over the corresponding text. It is important to note that the conversion won't be 100% accurate in every instance.

In the ComPDFKit Conversion SDK, the options of including image and annotation are commonly used in the following format conversion:

- PDF to Word
- PDF to Excel
- PDF to PPT
- PDF to HTML
- PDF to RTF
- PDF to JSON
- PDF to Markdown

About Text Markup Annotation

- **Highlight Annotation:** When converting to Word format, Microsoft Word only supports 15 highlight colors. To best replicate the original document, the highlighted text will have a background color that matches the original annotation's color. In PPT, native highlight tags are used for the corresponding marked text. In HTML format, a <a href="https://example.com/span="https://ex
- Underline & Wavy Line Annotations: When converting to Word and PPT formats, underlined or wavy lines will appear over the marked text. In HTML, the corresponding styles are applied to represent these annotations. If a piece of text is marked with both underline and wavy lines, only one will be applied during conversion, as underlines are essentially a form of wavy lines in Word, PPT, and HTML.
- Strikethrough Annotations: When converting to Word and PPT formats, strikethroughs will be applied over the marked text. However, the color of the strikethrough may not match the original PDF, as Word and PPT rely on the font color. In HTML, the strikethrough will maintain the original color.

Sample

This Sample demonstrates how to use the ComPDFKit Conversion SDK to convert a PDF document to a Word document with the selected options: Include images and annotations.

```
WordOptions *options = [[WordOptions alloc] init];
options.containImage = YES;
options.containAnnotation = YES;
[CPDFConversion startPDFToWord:@"input.pdf" password:@"" outputPath:@"output.docx" options:options];
```

3.5 Page Layout Modes

In certain formats, the page layout mode plays a key role in the quality of the converted document. ComPDFKit Conversion SDK supports two layout modes: Flow Layout and Box Layout.

- Flow Layout: This layout uses paragraph indentations, columns, and tab positions to adjust the content. Its main advantage is flexibility; content can flow automatically as the document is edited, and it adapts to various screen sizes on different devices. This layout also supports structured maintenance and can implement consistent global formatting through style templates (e.g., titles, body text). Common use cases include documents that are frequently modified, such as reports, manuals, and dynamic tables.
- Box Layout: Based on the PDF's "digital paper" model, this layout accurately positions every element (text, images, tables) on the page using a coordinate system (e.g., text is positioned 5 cm from the top and 3 cm from the left).
 The main advantage is high-precision rendering, which ensures consistency across different platforms. This layout is particularly useful for documents requiring precise reproduction, such as contracts, design drafts, and academic papers.

In the ComPDFKit Conversion SDK, page layout modes are commonly used in the following format conversions:

- PDF to Word
- PDF to HTML

Sample

This example demonstrates how to convert a PDF document to Word with Flow Layout and Box Layout:

```
WordOptions *options = [[WordOptions alloc] init];
options.pageLayoutMode = PageLayoutModeFlow; // or PageLayoutModeBox
[CPDFConversion startPDFToWord:@"input.pdf" password:@"" outputPath:@"output.docx" options:options];
```

3.6 OCR

Overview

OCR (Optical Character Recognition) is the process of converting images of typed, handwritten, or printed text into machine-encoded text.

OCR is commonly used for text recognition and extraction from the following types of documents:

- · Non-editable scanned PDF files.
- Photographs of documents.
- Scene photos such as advertising layouts, signboards, etc.
- Identification cards, passports, vehicle license plates, and other official plates.
- Invoices, bills, receipts, and other financial documents.

The following features support OCR:

- PDF to Word
- PDF to Excel
- PDF to PPT
- PDF to HTML

- PDF to RTF
- PDF to TXT
- PDF to CSV
- PDF to JSON
- PDF to Markdown

OCR Language Support of ComPDFKit Conversion SDK:

English French Chinese (Simplified) Chinese (Traditional) Japanese Korean
Chinese (Simplified) Chinese (Traditional) Japanese
Chinese (Traditional) Japanese
Japanese
-
Korean
German
Serbian (latin)
al Occitan
Danish
Italian
Spanish
Portuguese
Maori
Malay
Maltese
Dutch
Norwegian
Polish
Romanian
Slovak
Slovenian
Albanian
Swedish
Swahili
Tagalog
Turkish
Uzbek

Latn	Afrikaans	Afrikaans
Latn	Azərbaycan	Azerbaijani
Latn	Bosanski	Bosnian
Latn	Čeština	Czech
Latn	Cymraeg	Welsh
Latn	Eesti keel	Estonian
Latn	Gaeilge	Irish
Latn	Hrvatski	Croatian
Latn	Magyar	Hungarian
Latn	Bahasa Indonesia	Indonesian
Latn	Íslenska	Icelandic
Latn	Kurdî	Kurdish
Latn	Lietuvių	Lithuanian
Latn	Latviešu	Latvian

Converting Images to Other Document Formats

The OCR function also supports converting input images into Word, Excel, PPT, HTML, CSV, RTF, TXT, Json and other formats. This sample demonstrates how to use the ComPDFKit OCR function to convert image files to DOCX file.

```
// Set the OCR model path and language
[LibraryManager setDocumentAIModel:@"<model_path>" ocrLanguage:OCRLanguageEnglish];
[LibraryManager setOCRLanguage:OCRLanguageChinese];

WordOptions *options = [[WordOptions alloc] init];
options.enableOCR = YES;
[CPDFConversion startPDFToWord:@"input.png" password:@"" outputPath:@"output.docx" options:options];
```

Notice

- The quality of the OCR result depends on the quality of the input image. If the input image has a low resolution, the OCR result quality will be affected. A good rule of thumb is that the more pixels in the character shapes, the better. If the character bounding box is smaller than 20x20 pixels, OCR quality will drop exponentially. The ideal image is a grayscale image with a resolution around 300 DPI.
- When performing OCR, make sure the OCR language setting matches the language in the PDF document to achieve the best OCR conversion quality.
- OCR functionality currently does not support operating systems lower than MacOS 10.14.

Sample

This Sample demonstrates how to use the ComPDFKit OCR function to convert a PDF to DOCX file.

```
// Set the OCR model path and language
[LibraryManager setDocumentAIModel:@"<model_path>" ocrLanguage:OCRLanguageEnglish];
[LibraryManager setOCRLanguage:OCRLanguageChinese];

WordOptions *options = [[WordOptions alloc] init];
options.enableOCR = YES;
[CPDFConversion startPDFToWord:@"word.pdf" password:@"" outputPath:@"output.docx" options:options];
```

3.7 Layout Analysis

Overview

Layout analysis is the process of leveraging Artificial Intelligence (AI) technology to parse and understand the structure of a document's layout. Its primary goal is to extract text, images, tables, layers, and other data from the input documents.

Layout analysis has several common use cases, including:

- Intelligent recognition of tables within PDF documents: This feature is particularly useful for analyzing company financial statements, invoices, bank statements, experimental data, medical test reports, and more.
- Smart extraction of text, images, or tables from PDF documents through layout analysis: This functionality greatly aids in the analysis and extraction of information from identification cards, receipts, licenses, documents, ancient books, and other various types of files.

Features that support Layout Analysis:

- · PDF to Word
- PDF to Excel
- PDF to PPT
- PDF to HTML
- PDF to RTF
- PDF to TXT
- PDF to CSV
- PDF to JSON
- PDF to Markdown

Notice

- You need to integrate the OCR module before using layout analysis.
- When the OCR is enabled, the layout analysis is automatically enabled.

Sample

This Sample demonstrates how to use the ComPDFKit OCR function to convert PDF to DOCX file.

```
WordOptions *options = [[WordOptions alloc] init];
options.enableAILayout = YES;
[CPDFConversion startPDFToWord:@"input.pdf" password:@"" outputPath:@"output.docx" options:options];
```

3.8 Convert PDF to Word

Overview

Converting PDF to Word is an operation that converts the PDF format file into a editing Word format file. By converting PDF to Word, you can easily edit, modify, insert, or delete text and pictures, adjust layout and properties.

Layout differences

• Word's Streaming Layout Ideal for editing, with your editing, the content dynamically adapts to different positions. However, a Word file would display differently due to the incompatibility of various software or app versions. It makes it unsuitable for precise documentation like electronic files or certificates.

• PDF's Fixed Page Layout: Ensures a stable, uniform appearance and print quality across all devices. The content and formatting are locked upon creation, making alterations difficult without affecting the overall layout. It's preferred for formal documentation such as business reports and official electronic records.

Sample

```
WordOptions *options = [[WordOptions alloc] init];
[CPDFConversion startPDFToWord:@"word.pdf" password:@"" outputPath:@"output.docx" options:options];
```

3.9 Convert PDF to Excel

Overview

ComPDFKit Conversion SDK supports converting PDF documents to Microsoft Excel format (.xlsx). By extracting, parsing, and importing data from PDF into Excel, users can further edit, analyze, or share Excel files. This feature helps increase productivity, reduce manual entry errors, and simplify complex document processing tasks.

Set the content options for Excel

When converting PDF files to Excel files, you need to pay attention to the settings of the following options, which will directly affect the content written to the Excel file.

- Content options:
 If you enable the AllContent option, The converted XIsx file will contain all the contents in the PDF.
- Worksheet options:

Options	Description
ExcelWorksheetForTable	Create one sheet for one table.
ExcelWorksheetForPage	Create one sheet for one PDF page.
ExcelWorksheetForDocument	Create one sheet for the entire PDF document.

Sample

This sample demonstrates how to convert from a PDF to XLSX file.

```
ExcelOptions *options = [[ExcelOptions alloc] init];
[CPDFConversion startPDFToExcel:@"excel.pdf" password:@"" outputPath:@"output.xlsx" options:options];
```

3.10 Convert PDF to PowerPoint

Overview

ComPDFKit Conversion SDK provides the function of converting PDF files to PowerPoint files and restoring the layout and format of the original document, which can meet the needs of users for the presentation and editing of document content in Microsoft PowerPoint.

Sample

This sample demonstrates how to convert from a PDF to PPTX file.

```
PptOptions *options = [[PptOptions alloc] init];
[CPDFConversion startPDFToPpt:@"ppt.pdf" password:@"" outputPath:@"output.pptx" options:options];
```

3.11 Convert PDF to HTML

Overview

ComPDFKit Conversion SDK provides the PDF to HTML function, which can convert PDF files to HTML files while maintaining the layout and format of the original document, allowing users to browse and view the document on Web.

Notice

When converting PDF to HTML format, ComPDFKit Conversion SDK provides the following four options to create HTML files:

Options	Description	
HtmlOptionSinglePage	Convert the entire PDF file into a single HTML file, where all PDF pages are connected in sequence according to page number, displayed on the same HTML page.	
HtmlOptionSinglePageWithBookmark	Convert the PDF file into a single HTML file with an outline for navigation at the beginning of the HTML page. Still, all PDF pages are connected in sequence according to page number, displayed on the same HTML page.	
HtmlOptionMultiPage	Convert the PDF file into multiple HTML files. Each HTML file corresponds to a PDF page, and users can navigate to the next HTML file via a link at the bottom of the HTML page.	
HtmlOptionMultiPageWithBookmark	Convert the PDF file into multiple HTML files. Each HTML file corresponds to a PDF page, and users can navigate to the next HTML file via a link at the bottom of the HTML page. The links of all the HTML files are presented in an outline HTML file for navigation.	

Sample

This sample demonstrates how to convert from a PDF to HTML file.

```
HtmlOptions *options = [[HtmlOptions alloc] init];
[CPDFConversion startPDFToHtml:@"html.pdf" password:@"" outputPath:@"output.html" options:options];
```

3.12 Convert PDF to CSV

Overview

ComPDFKit Conversion SDK supports converting PDF documents to CSV (Comma-Separated Values). Converting PDF to CSV is a common need, usually used to extract tabular or structured data from PDF documents and convert them into CSV files.

Sample

This sample demonstrates how to convert from a PDF to CSV file.

```
ExcelOptions *options = [[ExcelOptions alloc] init];
options.CSVFormat = YES;
[CPDFConversion startPDFToExcel:@"csv.pdf" password:@"" outputPath:@"output.csv" options:options];
```

3.13 Convert PDF to Image

Overview

ComPDFKit Conversion SDK provides an API for converting PDF to images. Integrate ComPDFKit Conversion SDK to your apps to convert PDF into images easily.

Setting Image Formats

In ComPDFKit Conversion SDK, supported image formats include:

- ImageTypeJPG
- ImageTypeJPEG
- ImageTypePNG
- ImageTypeBMP
- ImageTypeTIFF

Setting Image Color Modes

Supported image color modes in ComPDFKit Conversion SDK include:

- ImageColorModeColor: Color mode, where the image effect is consistent with the original PDF page.
- ImageColorModeGray: Grayscale mode.
- ImageColorModeBinary: Black and white mode, which applies binarization to the original effect.

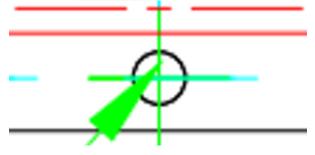
Setting Image Scaling

The SDK supports setting image scaling. The default scaling is 1.0, which maintains the original PDF page size. If you want to double the image size, you can set Scaling to 2.0; similarly, to reduce the image size by half, set Scaling to 0.5.

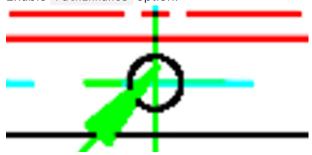
Enhancing Image Path Display

The SDK supports an option called PathEnhance for enhancing the display of image paths. This option can be enabled when you want to enhance the display effect of paths within the PDF page.

Not enable PathEnhance option(original PDF rendering effect):



• Enable PathEnhance option:



Notice

- A higher Scaling value results in images with higher resolution, but it also increases memory usage and slows down the conversion.
- A higher Scaling value does not necessarily equate to higher clarity; the clarity also depends on the original image resolution in the document.

Sample

The following complete example code demonstrates how to convert a PDF document into PNG format.

```
ImageOptions *options = [[ImageOptions alloc] init];
options.imageType = ImageTypePNG;
options.imageScaling = 2.0;
[CPDFConversion startPDFToImage:@"input.pdf" password:@"" outputPath:@"output_folder" options:options];
```

3.14 Convert PDF to RTF

Overview

RTF is a popular text format that can retain the format and style data of the text, and it is convenient for most text readers to read and write. Integrate ComPDFKit Conversion SDK to convert PDF to RTF files now.

Sample

This sample demonstrates how to convert from a PDF to RTF file.

```
RtfOptions *options = [[RtfOptions alloc] init];
[CPDFConversion startPDFToRtf:@"rtf.pdf" password:@"" outputPath:@"output.rtf" options:options];
```

3.15 Convert PDF to TXT

Overview

When you need to extract the text content in the PDF file, in order for data analysis, text mining, information retrieval, etc. Using ComPDFKit Convert SDK, you can easily extract the text in the PDF into the TXT file.

Preserving Table Format

The SDK supports an option called TableFormat that preserves the table format when writing the TXT file, meaning that the original table structure is maintained. It is generally recommended to enable this option, especially useful for data extraction scenarios.

Sample

This sample demonstrates how to convert from a PDF to TXT file.

```
TxtOptions *options = [[TxtOptions alloc] init];
[CPDFConversion startPDFToTxt:@"txt.pdf" password:@"" outputPath:@"output.txt" options:options];
```

3.16 Convert PDF to Searchable PDF

Overview

To make a searchable PDF by adding invisible text to an image based PDF such as a scanned document using OCR.

Sample

Full code sample which shows how to use the ComPDFKit OCR module on scanned documents in multiple languages.

```
SearchablePdfOptions *options = [[SearchablePdfOptions alloc] init];
[CPDFConversion startPDFToSearchablePDF:@"scan.pdf" password:@"" outputPath:@"output.pdf" options:options];
```

3.17 Releasing Library Resources

Overview

Releases the files and memory resources occupied by the ComPDFKit Conversion SDK.

Notice

 After calling this interface to release library resources, the ComPDFKit Conversion SDK will no longer function properly and must be reloaded.

Sample

```
// Release SDK resources.
[LibraryManager release];
```

4 Data Extraction Guide

Unleash the Power of Data with ComPDFKit Conversion SDK's Data Extraction to detect, recognize, analyze, and extract the PDF text, image, table, etc.

4.1 Extract PDF To JSON

Overview

Extract text, tables and images from PDF documents to Json file.

Standard table and non-standard table

Commonly, tables can be divided into two categories: standard tables and non-standard tables. The specific definitions are as follows:

 Standard table: The table border and the inner lines of the table are complete and clear. There is no need to manually add table lines to divide the table content.

	EXTERIOR - RAMPS, DOORS, and LIFTS			
Spec #	Spec	Initials	Notes	
101	REMOVAL OF ITEMS FROM WORK AREA Homeowner is responsible for removing objects from the work area. However, contractor is to double check that the items have been removed and that the area is prepared for conversion.			
102	INITIAL INSPECTION AND REPAIR Inspect the general area (concrete, doorway, threshold, etc.) for damage. Immediately report any "unforeseen items" to the Care Manager and Koremen.			
103	PREPARE YARD Prepare the existing yard for the ramp modification and cement. This includes the addition of dirt as needed, the excavating of the land, leveling, and grading of soil away from the home.			
104	DEMOLITION Demolish and remove existing areas only as necessary to construct the modification outlined in the specifications. Dispose of tear out in a code legal dump. Follow all environmental protection measures (lead safe practices) as required by the EPA and local ordinances.		Existing landing and ramps	
105A	DOOR THRESHOLD LANDING FOR VPL Construct a preservative treated wood landing at the door threshold height, approximately 42" above ground level or the concrete. 5'x6'. Add new steps. The landing should attach to existing porch and connect to new VPL. (Refer to diagram)		McKinley Collins approved aluminum modular platform and stairs with hand rails.	
106	VERTICAL PLATFORM LIFT Install a Bruno (or equivalent) vertical platform lift system per manufacturer's specifications. Ensure the lift has access to appropriate electrical outlets. Lift to have battery backup and call capability from bottom or top.		Pour a concrete base for the VPL. Ensure level. Must have manual override for power outages. Ensure smooth operation.	
106a	ELECTRIC FOR INSTALLING VPL Check with local zoning, fire, electric, and other code enforcement agencies regarding contractor licensing required for installation. Install based upon these requirements.		Add outlet to side of house for VPL.	
115	CONCRETE LANDING Excavate area to create new concrete landing and loading area. Form and pour 4" thick, 25SF, 2200 PSI concrete slab, to create an area to allow VPL stationary installation and client access point. Use straight, solid forms between temps of 40-100F. All concrete shall be: ofree of voids and cavities. ofreated with liquid curing compound. oprotected from the weather while curing. obroom finished across direction of traffic. Create a smooth transition onto the driveway/sidewalk from landing.		Extend the concrete a minimum 5' wide to the edge of the home.	
	Remove all forms, re-grade and spot seed.			

• Non-Standard Tables: Tables lacking borders or clear inner lines, requiring manual additions of table lines to separate contents.

features	precision	recall	F1-score	MCC	AUROC
В	0.823 ± 0.311	0.024 ± 0.012	0.047 ± 0.022	0.130 ± 0.055	0.799 ± 0.013
BC	0.818 ± 0.173	0.057 ± 0.016	0.106 ± 0.028	$\textbf{0.197} \pm 0.045$	0.842 ± 0.005
BT	0.542 ± 0.177	0.051 ± 0.030	0.092 ± 0.052	0.138 ± 0.060	0.786 ± 0.009
BV	0.745 ± 0.040	0.232 ± 0.047	0.350 ± 0.068	$\textbf{0.372} \pm 0.055$	0.815 ± 0.006
BY	0.781 ± 0.022	0.153 ± 0.014	0.256 ± 0.020	$\textbf{0.314} \pm 0.016$	0.820 ± 0.004
BTV	0.709 ± 0.011	0.268 ± 0.013	0.389 ± 0.015	$\textbf{0.393} \pm 0.013$	0.832 ± 0.003
BCTVY	0.793 ± 0.009	$\textbf{0.424} \pm 0.011$	$\textbf{0.552} \pm 0.010$	$\textbf{0.541} \pm 0.008$	$\textbf{0.890} \pm 0.002$

Table Extraction Option

ComPDFKit Conversion SDK supports the option ContainTable, when enabled, will extract table content from PDFs and output the table structure; otherwise, table content will be treated as regular text.

Notice

• Without enabling AI layout analysis or OCR options, tables in the original PDF cannot be extracted. It is recommended to enable AI layout analysis or OCR for high-precision table recognition.

Sample

Full sample code which illustrates the text extraction capabilities.

```
JsonOptions *jsonOptions = [[JsonOptions alloc] init];
[CPDFConversion startPDFToJson:@"json.pdf" password:@"" outputPath:@"output.json" options:jsonOptions];
```

4.2 Extract PDF To Markdown

Overview

Extract text, tables and images from PDF documents to Markdown file.

Sample

Full code sample which shows how to convert from a PDF to Markdown file.

```
MarkdownOptions *markdownOptions = [[MarkdownOptions alloc] init];
[CPDFConversion StartPDFToMarkdown:@"markdown.pdf" password:@"" outputPath:@"output.md"
options:markdownOptions];
```

5. Support

5.1 Contact Us

Thanks for your interest in ComPDFKit Conversion SDK, the easy-to-use and powerful development solution. If you encounter technical questions or bug issues when using ComPDFKit Conversion SDK, please submit the problem report to the ComPDFKit team. More information as follows would help us to solve your problem:

- ComPDFKit Conversion SDK product and version.
- Your operating system and IDE version.
- Detailed descriptions of the problem.
- · Any other related information, such as an error screenshot.

Contact Inforation

- Home link: https://www.compdf.com
- Technical Support: https://www.compdf.com/support
- Email: support@compdf.com

Thanks,

The ComPDFKit Team