foxit PDF SDK

DEVELOPER GUIDE
FOXIT PDF CONVERSION SDK

For Java

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1 INTRODUCTION TO FOXIT PDF CONVERSION SDK

Foxit PDF Conversion SDK is a flexible high-performance library for conversion between PDF files and MS Office files while maintaining the layout and format of your original documents. It offers advanced conversion capabilities as well as the same quality and user experience you can expect from Foxit. The engines for creating MS office files or PDF files are developed independently by Foxit and no 3rd party office engine is required to be pre-installed on your machine. Foxit PDF Conversion SDK can be used as a standalone library or as an add-on with Foxit PDF SDK.

1.1 Why Choose Foxit PDF Conversion SDK

Foxit is a leading software provider of solutions for reading, editing, creating, organizing, and securing PDF documents. Foxit PDF SDK libraries have been used in many of today's leading apps, and are proven, robust, and battle-tested to provide the quality, performance, and features that the industry's largest apps demand. Foxit PDF Conversion SDK is a new SDK product independently developed by Foxit. Customers choose Foxit PDF Conversion SDK for the following reasons:

- **Easy to integrate**

Developers can seamlessly integrate Foxit PDF Conversion SDK into their own applications.

- **Lightweight footprint**

Does not exhaust system resource and deploys quickly.

- **Independently-developed engine**

The core technology of the Conversion SDK is developed independently by Foxit.

- **Premium World-side Support**

Foxit offers premium support for its developer products because when you are developing mission critical products you need the best support. Foxit has one of the PDF industry's largest team of support engineers. Updates are released on a regular basis to improve user experience by adding new features and enhancements.

1.2 Foxit PDF Conversion SDK for Java

In this guide, we focus on the introduction of Foxit PDF Conversion SDK for Java API on Windows and Linux platforms. Foxit PDF Conversion SDK for Java API ships with simple-to-use APIs that can help Java developers do conversion between PDFs and MS Office files (only support docx, pptx and xlsx format files).

1.3 Evaluation

Foxit PDF Conversion SDK allows users to download a trial version to evaluate the SDK. The trial version has no difference from a standard version except for the 14-day limitation trial period. After the evaluation period expires, customers should contact Foxit sales team and purchase licenses to continue using Foxit PDF Conversion SDK.

1.4 License

Developers should purchase licenses to use Foxit PDF Conversion SDK in their solutions. Licenses grant users permissions to release their applications based on PDF SDK libraries. However, users are prohibited to distribute any documents, sample codes, or source codes in the SDK released package to any third party without the permission from Foxit Software Incorporated.

1.5 About this guide

This guide is intended for developers who need to integrate Foxit PDF Conversion SDK for Java into their own applications. It aims at introducing installation package structure on desktop platform with Java, and the usage of SDK.

2 GETTING STARTED

It is very easy to setup Foxit PDF Conversion SDK and see it in action! This guide will provide you with a brief introduction about our SDK package. The following sections introduce the contents of system requirements, the installation package as well as how to run a demo, and how to initialize Foxit PDF Conversion SDK.

2.1 System Requirements

Platform	System Requirement	JDK version	Note
Windows	Windows Vista, 7, 8 and 10 (32-bit and 64-bit) Windows Server 2003, 2008 and 2012 (32-bit and 64-bit)	At least 1.8	It only supports for Windows 8/10 classic style, but not for Store App or Universal App.
Linux	x86/x64 (32-bit and 64-bit OS) armv7/armv8 For Linux (x86 and x64), the minimum supported version of the GCC compiler is gcc4.9.4.	At least 1.8	The sample for Linux x86/x64 has been tested on Ubuntu14.0 32/64 bit. The sample for Linux armv7/armv8 has been tested on armv7 or armv8 OS.

Note:

- Starting from version 1.1, Foxit PDF Conversion SDK supports machine learning-based recognition functionality which can identify borderless tables in PDF documents. By default, it is disabled, if you want to enable it, please make sure the network is connected first.
- For PDF2Office, it supports Windows and Linux platforms. For Office2PDF, it only supports Windows platform currently.

2.2 What is in the Package

In this guide, the highlighted rectangle in the figure is the version of the SDK. Here the SDK version is 2.0, so it shows 2_0.

Package for Windows Java is named "foxitpdfconversionsdk_2_0_win_java.zip", package for Linux (x86/x64) Java is named "foxitpdfconversionsdk_2_0_linux_java.zip", and package for Linux (armv7/armv8) Java is named "foxitpdfconversionsdk_2_0_linux_arm_java.zip". They have the similar structure, so in this guide mainly introduce "foxitpdfconversionsdk_2_0_win_java.zip" as an example.

Download the package for Windows Java and extract it to a new directory like "foxitpdfconversionsdk_2_0_win_java", which is shown in Figure 2-1. The release package contains the following folders:

doc:	API reference, developer guide
examples:	sample demo
lib:	libraries and license files
res:	font-related configuration files

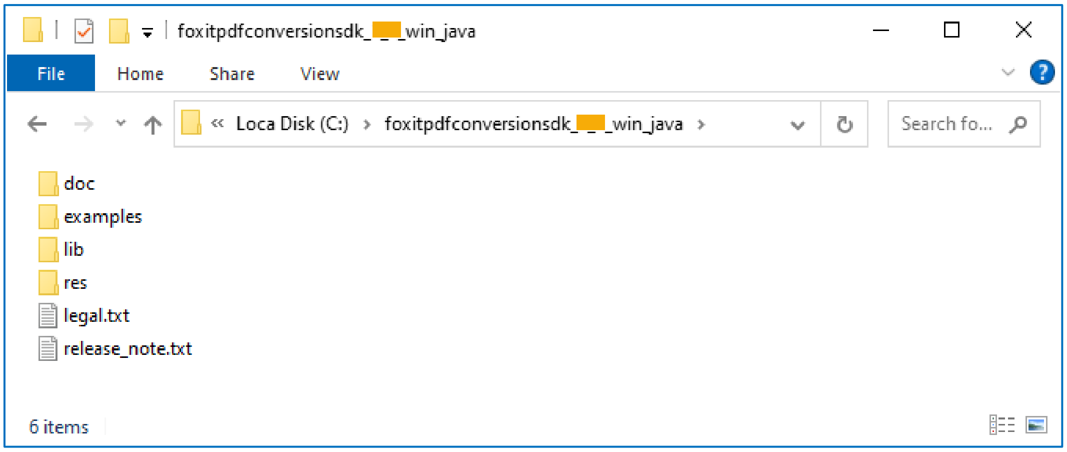
foxitpdfconversionsdk_[redacted]_win_java
File
Home
Share
View
Loca Disk (C:) › foxitpdfconversionsdk_[redacted]_win_java ›
Search fo...
doc
examples
lib
res
legal.txt
release_note.txt
6 items

Figure 2-1

Note:

- In "res\metrics_data" folder, it contains the metrics data files which are used to simulate the Office format document typesetting process during PDF to Office conversion.
- In "res\office2pdf" folder, it contains the resource files which are used to simulate the Office format document typesetting process during Office to PDF conversion.

2.3 How to run a demo

The following is the list for minimum version support for current release of Foxit PDF Conversion SDK for Linux platform:

OS	Tool chain	GLIBC
Linux x86/x64	gcc 4.9.4	GLIBC_2.17
Linux armv7	gcc-arm-8.3-2019.03-x86_64-arm-linux-gnueabihf	GLIBC_2.28
Linux armv8	gcc-arm-8.3-2019.03-x86_64-aarch64-linux-gnu	GLIBC_2.27

2.3.1 Run the demo using batch script

Foxit PDF Conversion SDK provides a pdf2office and an office2pdf demo in the "examples" folder.

To run the pdf2office demo, go to directory "\examples\simple_demo\pdf2office", and run the demo by "RunDemo.bat" for Windows or by "RunDemo.sh" for Linux.

To run the office2pdf demo, first you should copy all the files under "res\office2pdf" folder to the directory where the java.exe is located. Then go to directory "\examples\simple_demo\office2pdf", and run the demo by "RunDemo.bat" for Windows.

"\examples\simple_demo\input_files" contains the input files used in this demo. The output files (Word, Excel, PowerPoint, or PDF) will be generated in a folder named by the project name under "examples\simple_demo\output_files\" folder.

2.3.2 Run a demo using Eclipse IDE

In order to reduce the size of the package, we did not provide the Eclipse project for the demo. Therefore, if you want to run the demo in Eclipse IDE, you should do the steps below:

1) Create a Java project in Eclipse, and then integrate the SDK libraries into the project.
2) Copy the java file of the demo that you want to run, and then paste it to the project. For example, for pdf2office demo, copy the "pdf2office.java" file (under "\examples\simple_demo\pdf2office") to the "src" folder of the project.
3) Open the Java file, modify the *output_path* and *input_path* path as your need. For example, if you want to use the default test files in the code, you may need to use an absolute path which points to the "output_files" and "input_files" folders in the "examples\simple_demo".
4) Run the demo. Right-click the project, choose **Run As** -> **Java Application** to run the project.

2.4 How to initialize Foxit PDF Conversion SDK

It is necessary for apps to initialize Foxit PDF Conversion SDK using a license before calling any APIs. The trial license files can be found in the "lib" folder.

```
// Load the library.
// You can also use System.load("filename") instead. The filename argument must be an absolute path name.
static {
  String os = System.getProperty("os.name").toLowerCase();
  String lib = "fpdfconversionsdk_java_";
  if (os.startsWith("win")) {
    lib += "win";
  } else {
        lib += "linux";
    }
    if (System.getProperty("sun.arch.data.model").equals("64")) {
        lib += "64";
    } else {
        lib += "32";
    }
    System.loadLibrary(lib);
}

// Initialize the library.
int error_code = Library.initialize("sn", "key");
if (error_code != e_ErrSuccess) {
            return;
}
```

Note *The value of "sn" can be got from "**conversionsdk_sn.txt**" (the string after "SN=") and the value of "key" can be got from "**conversionsdk_key.txt**" (the string after "Sign=").*

SUPPORT

Foxit Support

In order to provide you with a more personalized support for a resolution, please log in to your Foxit account and submit a ticket so that we can collect details about your issue. We will work to get your problem solved as quickly as we can once your ticket is routed to our support team.

You can also check out our Support Center, choose Foxit PDF SDK which also has a lot of helpful articles that may help with solving your issue.

Phone Support:

Phone: 1-866-MYFOXIT or 1-866-693-6948