

PDFViewCtrl Sample

This is a simple demonstration of the PTPDFViewCtrl control. For a full featured viewer, please see the **CompleteReader** sample project.

(You can customize the UI interface using Tools library.)

Basic Viewing:

- Scroll to pan pages.
- Pinch or double tap to zoom.
- Pan or swipe to turn pages under non-continuous page mode.

Text Selection:

- Long press on text to select a word and move select widgets to change selection.




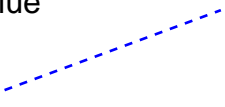

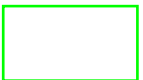
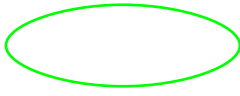



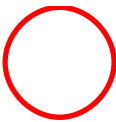



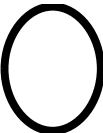
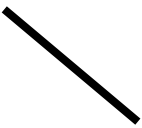




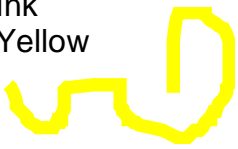
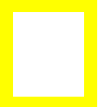
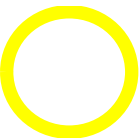
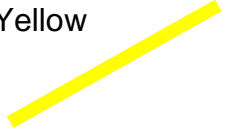






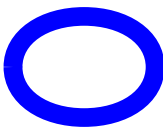
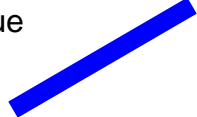




Annotation Editing: (annotations available on page 2)

- Long press in an empty area to bring up a quick menu for annotation creation.
- Single tap or long press an annotation to select an annotation for editing.
- Single click or long press (and release) a link annotation to navigate.

Form Filling: (forms available on page 3)

- Single tap or long press a form object to fill it. Text field, radio button, check box, list box, combo box are currently supported.

Ink, Rectangles, Ellipses, Lines

Ink Thin dashed Blue 	Rectangle Thin dashed Blue 	Ellipse Thin dashed Blue 	Line Thin dashed Blue 
Ink Thin solid Green 	Rectangle Thin solid Green 	Ellipse Thin solid Green 	Line Thin solid Green 
Ink Red 	Rectangle Red 	Ellipse Red 	Line Red 
Ink Black 	Rectangle Black 	Ellipse Black 	Line Black 
Ink Cyan 	Rectangle Cyan 	Ellipse Cyan 	Line Cyan 
Ink Yellow 	Rectangle Yellow 	Ellipse Yellow 	Line Yellow 
Ink Magenta 	Rectangle Magenta 	Ellipse Magenta 	Line Magenta 
Ink Blue 	Rectangle Blue 	Ellipse Blue 	Line Blue 
Ink Thick solid Red 	Rectangle Thick solid Red 	Ellipse Thick solid Red 	Line Thick solid Red 

Grant Application

Grant Application					
A. Title of Project					
B1. Request Number		B2. Request Title			
C1. Principal Investigator		C7. Mailing Address Address _____ City _____ State _____ Zip Code _____			
C2. Degree(s)					
C3. Social Security Number					
C4. Position Title		C8. Email Address			
C5. Department		C9. Phone Number (Area code and number)			
C6. Subdivision		C10. Fax Number (Area code and number)			
D1. Human Subjects	D2. If Yes, Comp. Number		E1. Vertebrate Animals	E2. If Yes, Assurance Number	
<input type="radio"/> Yes <input type="radio"/> No			<input type="radio"/> Yes <input type="radio"/> No		
F. Support Period (MM/DD/YY)		G. Initial Budget Costs		H. Support Period Costs	
From _____	Through _____	Direct Costs _____	Total Costs _____	Direct Costs _____	Total Costs _____
I. Applicant Organization Address _____ City _____ State _____ Zip Code _____			J. Type of Organization		J. Organization Code
			<input type="radio"/> Public <input type="radio"/> Private <input type="radio"/> Forprofit		K. Identification Number
					L. District
M. Legal Statement					
The legal statement goes here.			_____ Principal Investigator		
Any reference to company names and company logos in the sample forms included in this software is for demonstration purposes only and is not intended to refer to any actual organization.					



PDFTron PDF2XPS™ User Manual

Version 1.x

PDFTron PDF2XPS™ Command-Line Application User Manual
Part number: PDFTRON-1-PDF2XPSCMD
Last Updated: February 15, 2010

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1. Introduction

1.1 An Introduction to PDFTron PDF2XPS

PDFTron's PDF2XPS is an easy-to-use, multi-platform software that provides users with a high-quality and efficient way to convert PDF to XPS or OpenXPS documents.

PDF2XPS enables high-quality conversion from PDF to XPS that maintains the original document quality and preserves hyperlinks, colors and fonts. The resulting self-contained and compact XPS file can be distributed, viewed, edited, archived, printed, and published. The conversion also offers a wide range of options to control the output file size and image quality.

Like other PDFTron products, PDF2XPS does not rely on any third party components. The technology is suitable for use in high-throughput server environments and is also available as a component for integration with third party applications.

1.1.1 Key Functions

- Fast, high-quality conversion from PDF (Portable Document Format) to XPS (XML Paper Specification) or OpenXPS that maintains the original document quality and layout and preserves hyperlinks, colors and fonts.
 - Font support: Type1, TrueType, Type3 and Type0/CID Fonts, font subsetting on all supported PDF font types.
 - Color: ICC, DeviceN, Separation, RGB, CMYK, Indexed, etc.
 - Support for encrypted PDF documents (40 and 128 bit RC4, 128 bit AES, Crypt filters).
 - Support for all kinds of patterns, functions, and compression schemes.
 - Support for all annotation types.
 - Support for soft, explicit, and color-key masks.
 - The conversion preserves image and data compression resulting in small and efficient XPS documents while fully maintaining the original image quality.
- The conversion process preserves the original document's meta-data as well as other non-graphical information such as bookmarks, logical structure, and articles to produce XPS documents that directly map to their PDF equivalents.
- Forms, annotations and other PDF structures without XPS equivalents can be optionally exported as private namespace XML elements for further manipulation and processing by XPS consumers.
- Thumbnail generation option for fast navigation through multi-page documents.
- Automatic repair of broken PDF documents.
- Support for all versions of the PDF Language Standard, including Acrobat 9 documents as well as ISO PDF (ISO 32000).
- Batch conversion.
- Wild card and subfolder processing.
- 100% conversion accuracy. Features in the PDF specification that don't have XPS equivalents (such as Coons and Tensor Product shadings) can be selectively rasterized to render the exact replica of the original document.
- Available as a command-line utility, as a .NET component, and as a C/C++/Java library on various platforms (including Windows, Mac OS X, and Linux)

1.1.2 Common Use Case Scenarios

- Developers may want to use PDF2XPS to quickly add XPS support to any application or workflow that currently supports PDF.
- Server-based, on-demand conversion of PDF documents to XPS files.
- Batch processing of large PDF collections with the same conversion options.
- Extending existing applications to take advantage of the new XPS Print API and XPS print path available in Windows 7 and Vista.

1.1.3 Operating Systems Supported

- Windows 7, 2008, Vista, XP, 2003, 2000, NT
- Mac OSX
- Linux

1.1.4 System Requirements

- At least 10 MB of free disk space.
- Memory requirement is dependent on source document being converted.

1.2 PDF To XPS SDK (Software Development Kit)

For developers who are looking for a software development component to integrate into their applications, PDFTron offers a PDF to XPS conversion API as part of PDFNet SDK.

PDFNet SDK is a comprehensive, high-quality PDF developer toolkit for working with PDF files at all levels. Using the PDFNet PDF library, developers can flexibly implement and create powerful PDF solutions and applications that can generate, manipulate, view, render and print PDF documents without any third-party software dependencies.

PDFNet SDK is available as a .NET component and as a cross-platform Java and C/C++ PDF library available on a wide range of platforms (i.e. Windows, Linux, Mac OS X, Solaris, etc).

For more details, please visit PDFTron's website at <http://www.pdftron.com> or contact a PDFTron representative via info@pdftron.com.

1.3 About This Manual

This manual is intended as a guide to the installation and use of PDF2XPS Command Line Utility. It is intended for users who are familiar with PDF and XPS documents, graphic image file creation, graphic file manipulation and general computer processes.

- [Section 1](#) introduces PDF2XPS and describes the manual.
- [Section 2](#) explains how to install and uninstall PDF2XPS.
- [Section 3](#) covers basic use of PDF2XPS.
- [Section 4](#) covers general PDF2XPS related questions
- [Section 5](#) is where you will find all the support information you may require, such as how to report a problem with the software.

2. Installing and Uninstalling PDF2XPS

2.1 PDF2XPS Installation

PDF2XPS Command-line Application is supplied as a download from a distributor or directly from www.pdftron.com. The release is packaged as a .zip file (PDF2XPS.zip). To install the software, simply unzip the archive in the desired location and make sure to preserve the directory/folder structure during this process. To register the software, copy the license file provided to you into the "PDF2XPS" folder.

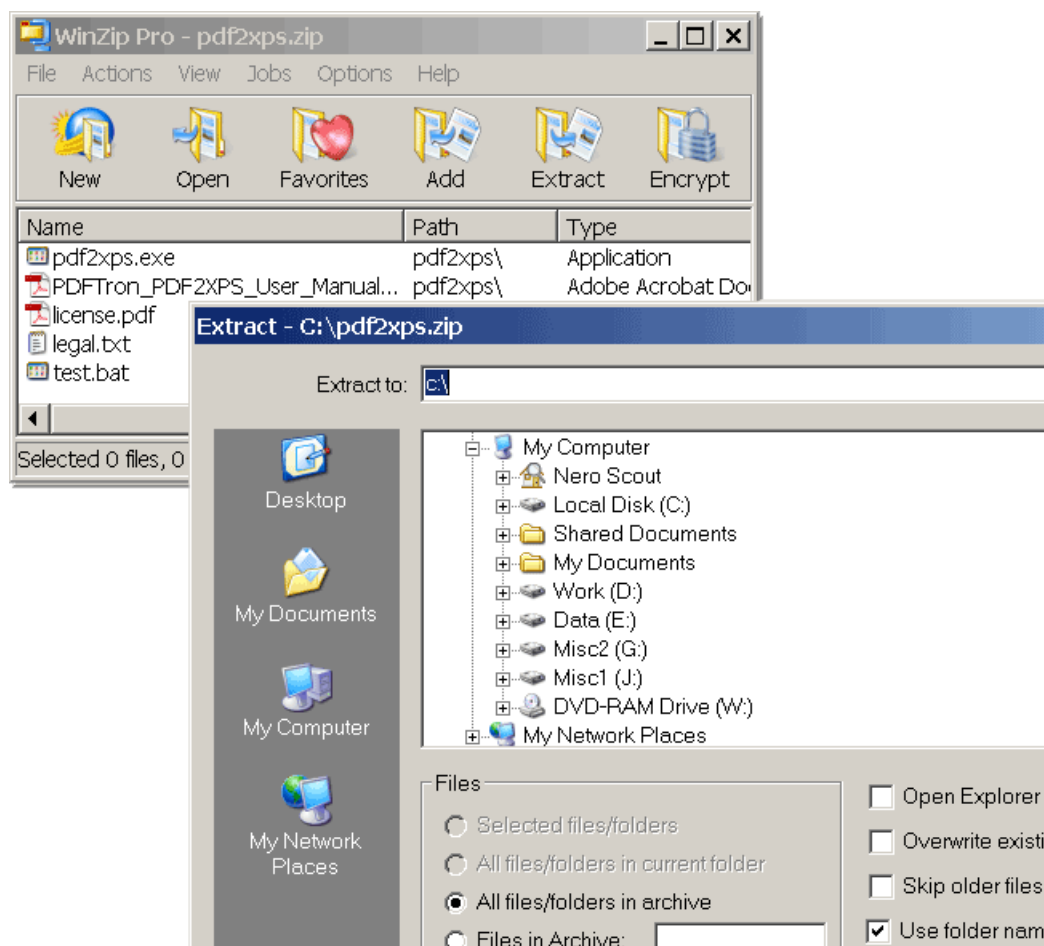


Figure 2.1 – Extracting PDF2XPS Archive using WinZip

2.2 Demo Version Installation

If you wish to evaluate the product, you can download the demo version of the product without any serial number or license key.

To do this, go to PDFTron's **Downloads** page at www.pdftron.com/downloads.html. Click on the appropriate product name/version. This will bring you to the link to the page to download the demo. Download the zip file (PDF2XPS.zip) and extract the archive in the desired location, while making sure to preserve the directory (folder) structure when extracting the archive. Download the zip file *pdf2xps.zip*. Extract the archive in the desired location (making sure to preserve the folder structure). This will provide you a working copy of the application along with various examples. The limitation of the evaluation version is that all output pages will have demo stamp.

Simply delete the

3. Overview

PDFTron PDF2XPS is a command-line application designed to convert PDF documents to XPS files while presenting several options to control resolution and quality. This section covers the basic usage of PDF2XPS explaining all of the available options.

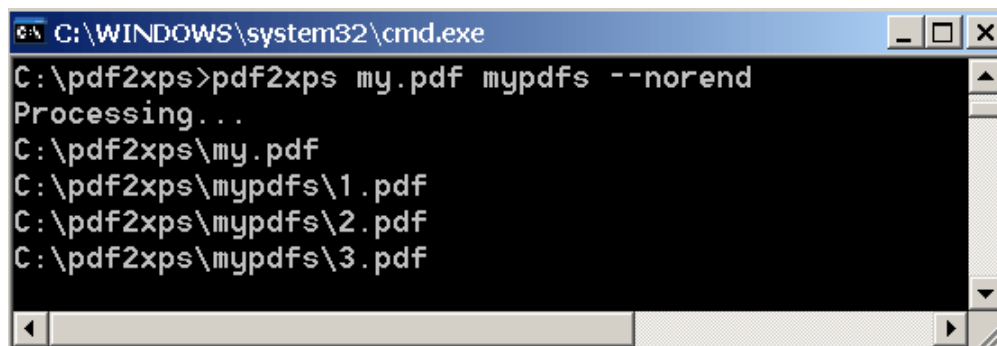


Figure 3.0 PDF2XPS Command-line Application.

3.1 Basic Syntax

The basic command-line syntax is:

```
pdf2xps [options] file1 file2 folder1 file3 ...
```

The following is a list of available command-line options for PDF2XPS:

10

11

3.3 Basic Usage

3.3.1 How do I save converted files in a given folder?

By default, PDF2XPS saves converted files in the current working folder. To specify another output location, use the '-o' (or '--output') parameter. For example:

```
pdf2xps -o "c:\My Output" 1.pdf 2.pdf 3.pdf
```

Note: If the specified path does not exist, PDF2XPS will attempt to create the necessary folders.

3.3.2 How can I control the output name for converted files?

PDF2XPS will, by default, create a single file with the name of the input PDF file. The output filename can be changed using the '--prefix' option. For example, the following command-line generates an output document named outdoc.xps:

```
pdf2xps --prefix outdoc mydoc.pdf
```

3.3.3 How do I specify which pages to convert?

By default, PDF2XPS will convert all PDF pages into an output XPS file. You can specify a subset of pages to convert using the '-a' or '--pages' options. For example:

```
pdf2xps -a 1,3,10 in.pdf
```

will convert only pages 1, 3, and 10. Please note that PDF2XPS assumes that all pages are numbered sequentially starting from page 1.

To specify a range of pages, use dash character between numbers. For example:

```
pdf2xps -a 1,10-20,50- in.pdf
```

will convert the first page, pages in the range from 10 to 20 and all pages starting with page 50 to the last page in the document.

All even pages can be selected using the 'e' (or 'even') string. For example, the following line converts all even pages:

```
pdf2xps --pages even in.pdf
```

Similarly odd pages can be selected using the 'o' (or 'odd') string. The following line renders all odd pages in the document and every page in the range from 100 to the last page:

```
pdf2xps --pages odd,100- in.pdf
```

3.3.4 How do I batch convert files?

PDF2XPS supports batch conversion of many PDF files in a single pass. To convert all PDF files in a given folder(s) you can use the following syntax:

```
pdf2xps myfolder1
```

The '--subfolders' option can be used to recursively process all subfolders. For example, the following line will convert all documents in 'myfolder1' and 'myfolder2' as well as all subfolders:

```
pdf2xps --subfolders myfolder1 myfolder2
```

By default, PDF2XPS will convert all files with the extension '.pdf'. To select different files based on the extension use the '--extension' parameter. For example, to convert all PDF documents with a custom extension '.blob', you could use the following line:

```
pdf2xps --extension .blob --subfolders myfolder1
```

The use of wild characters is also allowed. For example, to convert all PDF files starting with 'x' in the current folder use:

```
pdf2xps x*.pdf
```

3.3.5 How do I convert to OpenXPS?

By default, PDF2XPS will convert PDF files to the XPS format. You can specify the output format to be OpenXPS using the --openxps option. The following command-line would generate the OpenXPS File 1.xps:

```
pdf2xps --openxps 1.pdf
```

3.3.6 How do I convert a password protected PDF?

PDF2XPS will, without user intervention, convert documents secured with a master/owner password. If the document is secured using a user (or 'file open') password, PDF2XPS will prompt you to enter the password.

For unattended conversion, the password can also be specified directly on the command-line using the '-p' (or --password) option. For example:

```
pdf2xps -p secret secured.pdf
```

The above command line will convert PDF to XPS and will use the provided password ('secret') to open the secured document (i.e. 'secured.pdf').

Note: PDF2XPS supports all standard security options available in PDF, including 40 and 128 bit RC4 encryption, Crypt filters, and AES (Advanced Encryption Standard) encryption.

3.3.7 What quality can I expect from the output document?

Since PDF2XPS always attempts to maintain the original document appearance, the vast majority of output files will successfully preserve the appearance and quality of the original PDF documents. Occasionally, there will be PDF elements that have no equivalent in XPS. In these cases PDF2XPS will by default render the necessary elements at 92 dpi or at the resolution given by the --dpi parameter. For example:

```
pdf2xps --dpi 200 doc.pdf
```

would render those elements at 200 dots per inch.

In other select cases, to generate the exact appearance of the original PDF document, an entire page may need to be rendered. In these cases rendering can be disabled using the '--norender' option as in the following example:

```
pdf2xps --norender doc.pdf
```

This option will preserve resolution independent properties of input PDF documents (including fonts, paths, and shadings) as well as text selection and extraction capability in XPS processing software.

3.4 General Usage Examples

Example 1. The simplest command line: Convert PDF to XPS.

Notes:

- Converts 'my.pdf' to 'my.xps' located in the current working folder.

```
pdf2xps my.pdf
```

Example 2. Convert PDF to Open XPS.

Notes:

- The '-o' (or --output) parameter is used to specify the output folder. If this option was not specified, all images would be stored in the current working folder.
- The --openxps parameter specifies that the output should be an Open XPS file.
- The '--verb' option instructs PDF2XPS to output more feedback in the console window.

```
pdf2xps --openxps --verb 2 -o ex1 my.pdf
```

Example 3. Preserve maximum editability of source PDF document.

Notes:

- The --norender parameter is used to prevent selective rasterization of PDF pages that may not accurately map to XPS due to use of specific blend modes or other PDF features without a direct XPS equivalent. Individual graphical elements on the page (such as certain types of shadings may still be rasterized).
- The '-p' (or --pass) parameter is used to specify the password (i.e. 'my pass') required to open the encrypted document.

```
pdf2xps --norender -o --pass "my pass" outdir my.pdf
```

Example 4. Batch convert PDF to XPS.

Notes:

- The -a (or '--pages') option instructs PDF2XPS to convert only the first two pages in all PDF documents stored under 'dir1' and 'dir2' folders.
- The '--subfolders' option is used to recursively process all PDF documents stored in subfolders of dir1 and dir2.

```
pdf2xps -a 1-2 --subfolders dir1 dir2
```

```

12 0 obj      %PDF-1.4
<<           /F2 1 Tf stream trailer<<
             B 0 1 q /Filter /Fl
/Len g h 18 18 576 756 re h W n 0 B >> 18
R /G3 cc 1 1 3 cm 2 2 0 c b d /Size 268 1 1

```

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12 0 obj      %PDF-1.4
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             B 0 1 q /Filter /Flt
/Len g       0 b
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             B 0 1 q /Filter /Fl
/Len g       0 b
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<<           /F2 1 Tf stream trailer<<
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12 0 obj      %PDF-1.4
<<           /F2 1 Tf stream trailer<<
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           /G3 gs 1 1 3 cm 0 0 0 c

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12 0 obj      %PDF-1.4
<<           /F2 1 Tf stream trailer<<
             B 0 1 q /Filter /Flt
/Len g       0 b
R            18 18 576 756 re h W n /S
           /G3 gs 1 1 3 cm 0 0 0 c

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```

12 0 obj      %PDF-1.4
<<           /F2 1 Tf stream trailer<<
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/Len g       0 b
R            18 18 576 756 re h W n /S
           (/G) cc 1 1 3 cm 0 0 0 cscd 1 1 1 cs 1 1 1 sc
           /Size 268

```

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12 0 obj      %PDF-1.4
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/Len g       0 b
R            18 18 576 756 re h W n /S
           (/G) cc 1 1 3 cm 0 0 0 cscd 1 1 1 cs 1 1 1 sc
           /Size 268

```

```

12 0 obj      %PDF-1.4
<<           /F2 1 Tf stream trailer<<
             B 0 1 q                /Filter /Flt
/Len g       18 18 576 756 re h W n 0 B   >> 18
R            /G3 ca 1 1 3 cm 1 2 0 0 0 0 b d /S size 268 1 1

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```

12 0 obj      %PDF-1.4
<<           /F2 1 Tf stream trailer<<
             B 0 1 q /Filter /Flt
/Len g       0 b
R            18 18 576 756 re h W n /S size 268

```

```

12 0 obj      %PDF-1.4
<<           /F2 1 Tf stream trailer<<
             B 0 1 q /Filter /Flt
/Len g       0 b
R            18 18 576 756 re h W n /S
           (/G) cc 1 1 3 cm 0 0 0 cscd /Size 268

```

To provide additional feedback, PDF2XPS returns exit codes after completing processing. The exit codes can be used to provide user feedback, for logging etc. This is particularly important for applications running in an unattended environment.

Exit Code	Description
0	All files converted successfully.
1	Unspecified error.
2	Document is secured. Need a valid password to open the document.
3	Bad license key
4	Failed to create the output directory
5	Bad input filename or path

The following illustrates a sample Windows batch script that processes exit codes:

at h
nts
e th
th
res
ngs

nde

man
we
t th
ew
s th
ply

5. Support

5.1 Reporting Problems

If you encounter a problem or question regarding PDFTron PDF2XPS, which is not addressed on PDFTron's website, please submit a problem report to PDFTron's Support group at <http://www.pdftron.com/reportproblem.html>.

When submitting a problem you will be asked to provide the following information:

- Contact details
- Product and Version of the product
- Detailed description of problem
- Problem file(s)
- Whether you have an AMS (Annual Maintenance Subscription)
- Any other information that may be related

5.2 Contact Information

To contact PDFTron directly, please use the contact information below:

Tel: 1-604-730-8989

Fax: 1-604-676-2477

Web site: www.pdftron.com

Email Contacts:

General Business Inquiries: info@pdftron.com

Sales & Licensing: sales@pdftron.com

Product Support: support@pdftron.com

Professional Services: services@pdftron.com

Website related questions: webmaster@pdftron.com

Press & News: press@pdftron.com