PdfMerge Version 2.1 (Jan 27/2018) - An Open Source Pdf Splitter/Merger with bookmark importing and pagination.

Abstract

PdfMerge was written to fill the need for producing large PDF documents from multiple sources in an automated way. To serve this need it meets the following requirements:

- Allow the split/merge process to be programmatically driven
- Allow the creation of bookmark trees by specifying bookmarks to be added
- Allow the import of bookmarks from the merged documents.
- Support merging of large documents quickly
- Allow population of document title fields
- Supports optional page numbering and footer annotation

GUI Usage

<u>The main GUI is as follows:</u>

To get started:

- Open PdfMerge
- Drag and drop PDF files into the grid
- Change the bookmark names in the grid
- Enter a filename under “Save to PDF”
- Click “Merge”
- Click “View Last Merged

Adding and Arranging PDF Files

There are a few ways to add files

- Select one or more PDF files and drag and drop them onto the PdfMerge window
- Press the Add Files button

Once files are added you can change the order using the up and down arrows. If multiple files are selected the whole group will moved.

The "X" button will delete the selected files.

Press the "View" button to show the selected PDF files as is without merging.

If you wish to undo your changes (after saving them) use the Edit → Undo menu item or press CTRL-Z.

Merging PDF Files

Once you have selected the files to merge and the order, you should select the Filename here:

Press the "…" button to select using a File Browser, or type in the file name and path.

When you are ready to merge press the "Merge/Split" button.

Use the "View Last Merged" button to check the result.

Saving and Recalling a Merging Plan

PdfMerge allows you to save and recall merge a merging plan into a command file. This is done using the "File" menu or the tool bar open and save buttons. Once saved, this command file can also be used programmatically as explained here:

MERGE COMMAND FILE – PLAIN TEXT FORMAT

MERGE COMMAND FILE – XML FORMAT

Importing and Adding Bookmarks

The easiest approach to bookmarks is to add all the files needed, and then select *Tools → Copy All Filenames to Bookmarks*. This will cause the file names to be entered in to the bookmark column and all the bookmarks in each file will be imported at one level below the specified bookmarks.

Example	Resulting Bookmarks

Another example is shown below using the “Level” column to import at different levels in the bookmark tree. In this case the bookmarks from the staff report PDF are imported at level 1 under the agenda bookmark.

Example	Resulting Bookmarks

Numbering Pages and Adding Footers

PdfMerge will add page numbers and footnotes to the merged PDF if desired. An example is shown below.

Example

Resulting PDF

Agenda
Monday October 1st, 2016

1. Welcome
2. **Motion** to adopt the agenda
3. Discuss assignments
4. Staff Reports – see attached
5. Correspondence
6. Closing

Oct 1, 2016 Agenda **Page 3 of 7**

Setting the Annotation Fields in the Merged PDF

Set the title, subject, and author fields using the menu item *Tools → PDF Annotations*.

Example	Result in merged PDF

Using Page Number Ranges to Split PDF Files

By default, PdfMerge will include all pages in a result. To split out a subset of pages specify a page range in "Pages" column.

Valid page number range examples:

Entry	Result
all	All pages (default)
1	Splits out page 1 only
1-4	Splits out pages 1 to 4
1-4;10;12	Splits out pages 1,2,3,4,10,12

Command Line Syntax

pdfmerge <merge_command_file_name> <output_file_name> [/showpdf] [/showgui]

Arguments:

merge_command_file_name: Command file in plain text or XML format
output_file_name: Name of output PDF file
/showpdf: optional, causes PDF to be shown after it is merged
/showgui: optional, causes GUI to be displayed after merge is completed

Examples:

pdfmerge
pdfmerge plan.xml myagendapackage.pdf
pdfmerge plan.xml myagendapackage.pdf /showpdf
pdfmerge plan.xml myagendapackage.pdf /showgui
pdfmerge plan.xml myagendapackage.pdf /showpdf /showgui

Merge Command File – Plain Text Format

Merge files are used from the GUI or from the command line to perform merges programmatically.

Each line of the merge file contains
<pdf filename>; <page range>; <password>; <bookmark (optional)>;level (optional)

Option	Description	Examples
pdf filename	Any valid pdf filename.	c:\tmp\shell.pdf compliance.pdf
page range	The range of pages to extract	1 (page one only) 1-4 (pages one to four) all (all pages)
include	If set to "exclude" bookmarks will not be imported	include exclude
bookmark	Optional bookmark name. If not specified file bookmarks will not be imported. If specified file bookmarks will form a sub tree under the specified bookmark.	LevelOneBookMark >SubBookMark
level	This is used to arrange bookmarks in a hierarchy. An exception will result if a level is skipped. The default is the root level.	1 2 3

An optional information line may be added to the end:
[Info];<Document Title>;<Document Subject>
This information will populate the title and subject information fields in the PDF file.

This is a sample merge file and result:

c:\tmp\shell.pdf;1-4;include;TITLE PAGE
c:\tmp\shell.pdf;5;include
c:\tmp\compliance.pdf;all;include;COMPLIANCE
c:\tmp\shell.pdf;6;include
c:\tmp\summary.pdf;all;include;TEST SUMMARY
c:\tmp\shell.pdf;7;include
c:\tmp\shell.pdf;8;include;DETAILED RESULTS
c:\tmp\shell.pdf;11;include
c:\tmp\phasea.pdf;all;include;PhaseA;1
c:\tmp\shell.pdf;12;include
c:\tmp\phaseb.pdf;all;include;PhaseB;1
[Info];Document Title Rev X;Document Information

Merge Command File – XML Format

XML format is the preferred format for command files and should always be used when Unicode bookmarks are required. If you are generating XML from an external program, please ensure a utf-16 file is being created.

The XML schema and sample XML are shown below:

XML Schema

```
Schema Set
  { } Empty Namespace
    cmdschema.xsd
      merge
        file [0..*]
          path xs:string
          pages [0..1] xs:string
          bookmark [0..1] xs:string
          level [0..1] xs:byte
          @ exclude xs:byte
        info [0..1]
          author [0..1] xs:string
          subject [0..1] xs:string
          title [0..1] xs:string
        options [0..1]
          outfile [0..1] xs:string
          annotation [0..1] xs:string
          startpage [0..1] xs:byte
          paginationformat [0..1] xs:byte
```

Example XML Command File

```xml
<?xml version="1.0" encoding="utf-16"?>
<merge>
  <file>
    <path>D:\pdftest\eula-en.pdf</path>
    <pages>all</pages>
    <bookmark>eula-en</bookmark>
  </file>
  <file>
    <path>D:\pdftest\readme.pdf</path>
    <pages>all</pages>
    <bookmark>readme</bookmark>
  </file>
  <file exclude="1">
    <path>D:\pdftest\eula-en.pdf</path>
    <pages>all</pages>
    <bookmark>eula-en</bookmark>
  </file>
  <file>
    <path>D:\pdftest\readme.pdf</path>
    <pages>all</pages>
    <bookmark>readme</bookmark>
    <level>1</level>
  </file>
  <info>
    <author>Charles Van Lingen</author>
    <subject>Sample File</subject>
    <title>Pdf Split and Merge with
Bookmarks</title>
  </info>
  <options>
    <outfile>D:\pdftest\output.pdf</outfile>
    <annotation>Test of Pdf Split and
Merge</annotation>
    <startpage>1</startpage>
    <paginationformat>0</paginationformat>
  </options>
</merge>
```

Sample XML in GUI:

Sample XML Output

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http://sourceforge.net/projects/pdfmerge

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