

PDF SPLIT AND MERGE 0.6SR2 TUTORIAL

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<http://www.pdfsam.org/>

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WHAT IS PDFSAM?

PDF Split and Merge is a very simple, easy to use, free, open source utility to split and merge pdf files. It has a simple graphical interface to let the user choose pdf files, split or merge them. Pdfsam is written with Java Swing that is *"a set of Java class libraries provided as part of [Java 2 Platform, Standard Edition \(J2SE\)](#) to support building graphics user interface (GUI) and graphics functionality for client applications that will run on popular platforms such as Microsoft Windows, Linux, and Mac OSX."*¹

Pdfsam uses some external libraries such as:

- iText-1.4.6
- jcmdline-1.0.3
- jGoodies-2.0.4

It uses iText library to manipulate pdf files, jGoodies to have a nice and changeable look and feel and jcmdline to parse and validate console input arguments.

WHY PDFSAM?

I needed to merge together some pdf files a couple of years ago and it happened again since that first time. Guess what? I couldn't find an open source software to make it easily and quickly, even if there are tons of commercial software for that. This is the reason why i decided to write pdfsam, a simple, open source and free software for pdf manipulation. Actually one more thing was the iText library; i knew the main job about the pdf manipulation was already done by iText but people need something easier, simple interface, something "click and run". And here it is, pdfsam.

INSTALL AND RUN

Prerequisites:

pdfsam need a working Java Runtime Environment. It has been developed using Sun Java(TM) 2 SDK, Standard Edition, Version 1.4.2 and tested on many Microsoft Windows version and on Ubuntu 6.10 and Ubuntu 6.06 using J2SE 5.0 and J2SE 1.4.2 .

[pdfsam-0.6-sr2.zip](#)

Unzip the archive in a directory and double click the file pdfsam-0.6sr2.jar or type the command "java -jar INSTALL_DIR/pdfsam-0.6sr2.jar" in a console.

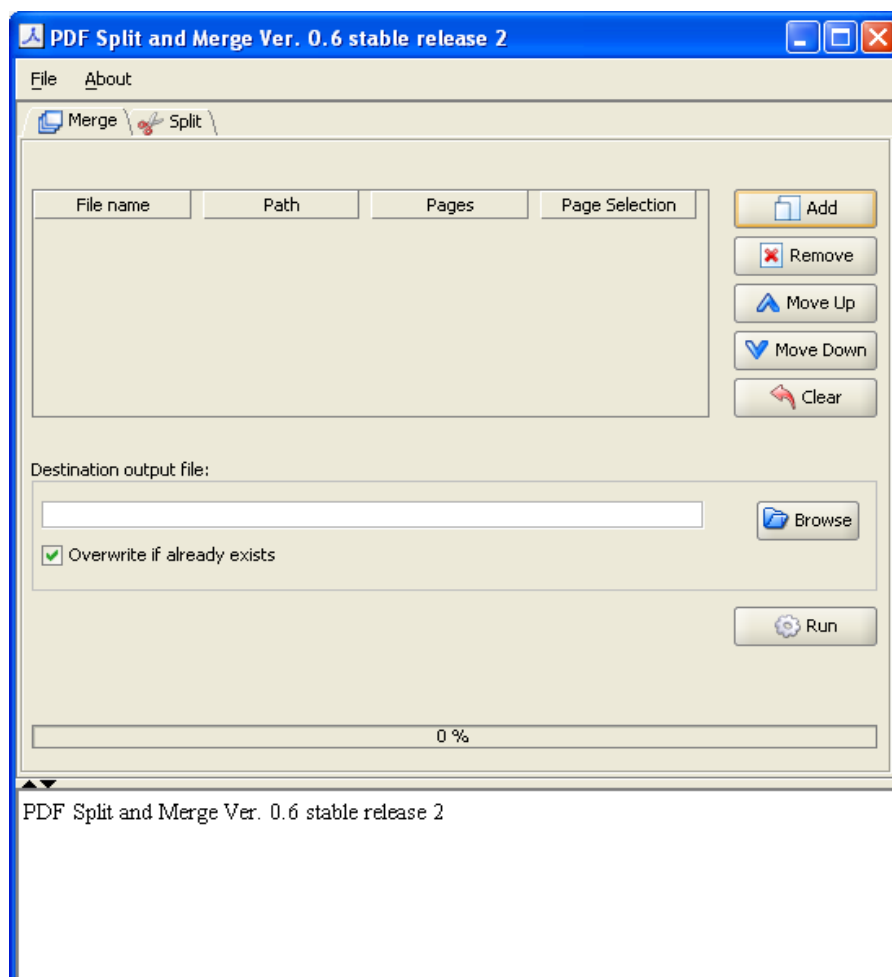
[pdfsam-win32inst-v0_6_sr2.exe](#)

This version is for win32 operating systems. Double click it and than, as usual, next -> next -> next ->next... You'll find the pdfsam group in the start menu.

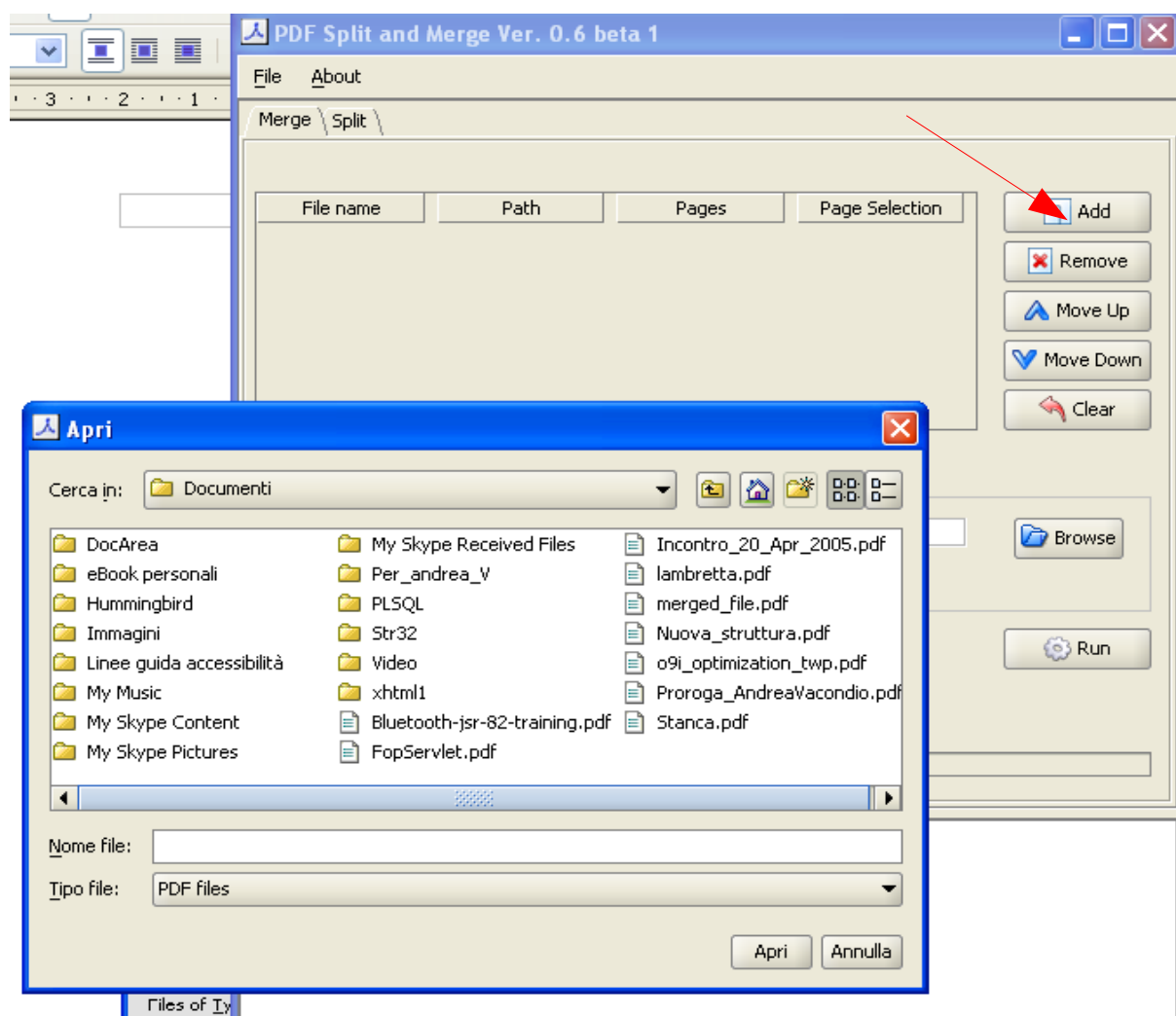
1 From the official <http://java.sun.com>

MERGE

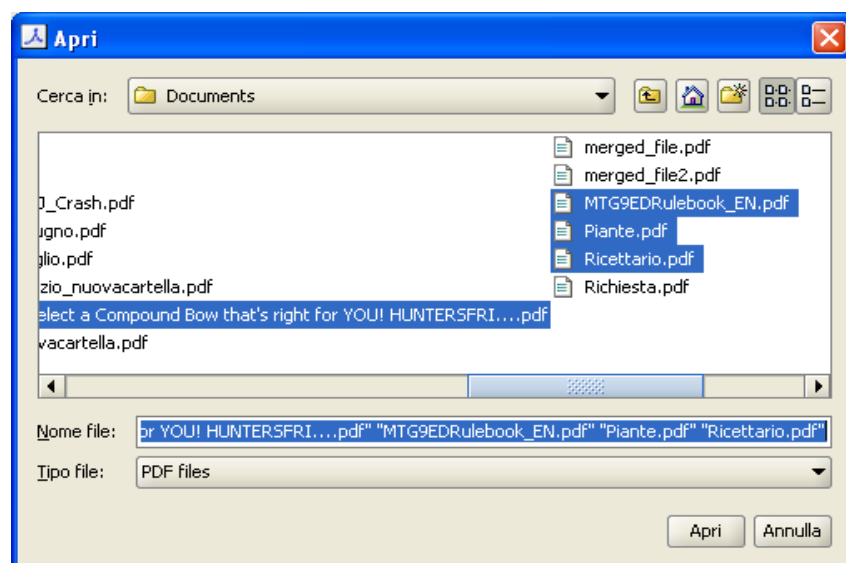
Here is the Merge main window:



Click the "Add" button to choose the pdf files you want to merge together.



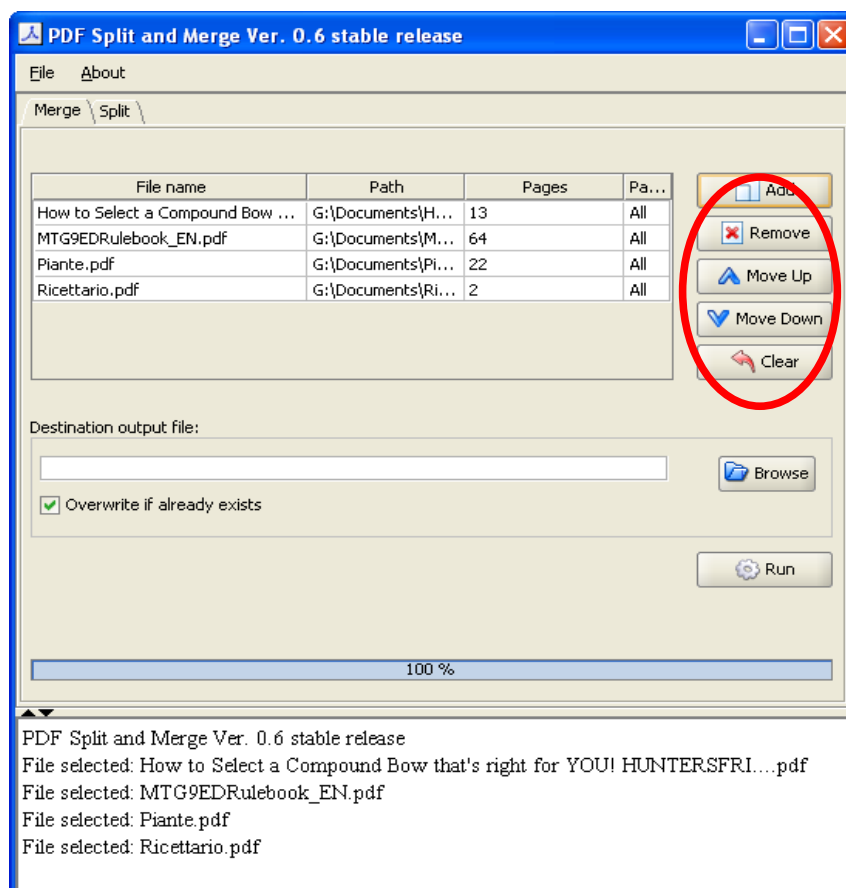
Select pdf files you want to merge; if you want to select more the one file press the "shift" button on you keyboard.



Once your files has been selected you'll see a table containing file ditails:

- File name: The file name
- Path: The file absolute path in the filesystem
- Pages: The total number of pages in the document
- Page Selection: "All" means that you want to merge the whole document, "page-topage" means you want to merge only pages between "page" and "topage" comprehensive. (ex 13-25 if you want to merge pages between 13 and 25).

Use the buttons "Move Up", "Move Down" to change the files order or select one or more and drag&drop. Press "Remove" to remove unwanted file from the list.



Double click the Page Selection cell if you want to merge only a subset of the document.

File name	Path	Pages	Page Sele...
How to Select a Compound Bow ...	G:\Documents\H...	13	All
MTG9EDRulebook_EN.pdf	G:\Documents\M...	64	All
Piante.pdf	G:\Documents\Pi...	22	All
Ricettario.pdf	G:\Documents\RI...	2	All

Fill with the pages subset you want to merge; page numbers are comprehended. You may use print notation like "2,12-16,17" or simply "2" if you want to merge only page number 2.

File name	Path	Pages	Page Sele...
How to Select a Compound Bow ...	G:\Documents\H...	13	All
MTG9EDRulebook_EN.pdf	G:\Documents\M...	64	All
Piante.pdf	G:\Documents\Pi...	22	5-8
Ricettario.pdf	G:\Documents\Ri...	2	All

Fill the destination field with the output file name or select it using the "Browse" button. Check or uncheck "Overwrite" if you want overwrite the output pdf document if it already exists.

Destination output file:

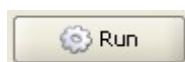
c:\temp\ouput.pdf Browse

☒ Overwrite if already exists

You can automatically set a default output file by clicking with the right button on a file in merge table and selecting "Set output file". This will fill the output filed with a default filename in the same directory as the selected file ion merge table.

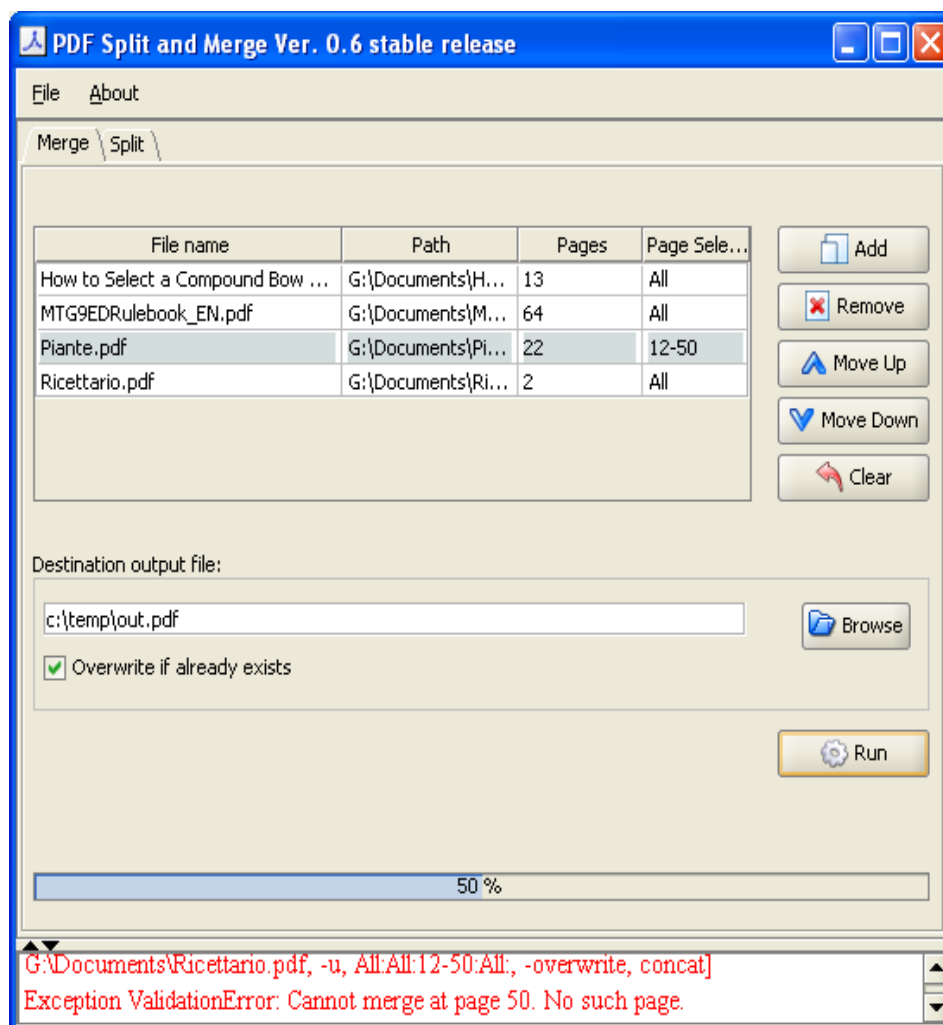


Click the "Run" button.



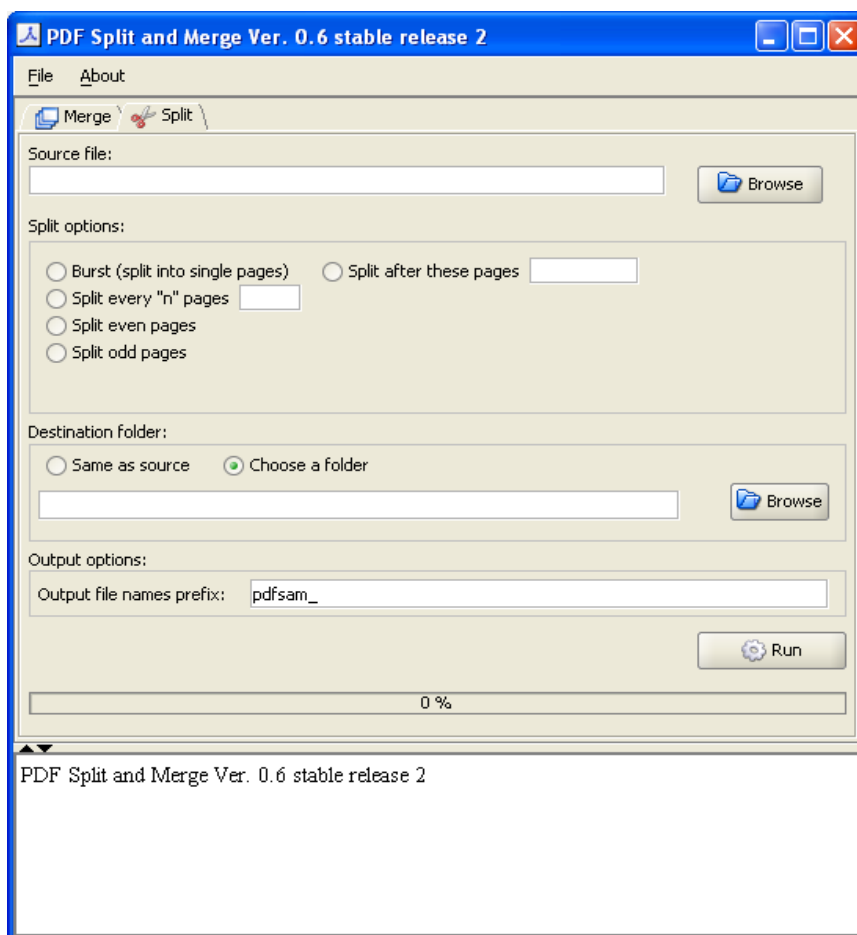
If no error occurs you'll see the progress bar growing till 100% and a black message on the log panel saying "Total processed pages: xxxx-", otherwise you'll find a red error message.

In the example above we had an error message saying we cannot merge pages between 2 and 30 because the document has only 3 pages.

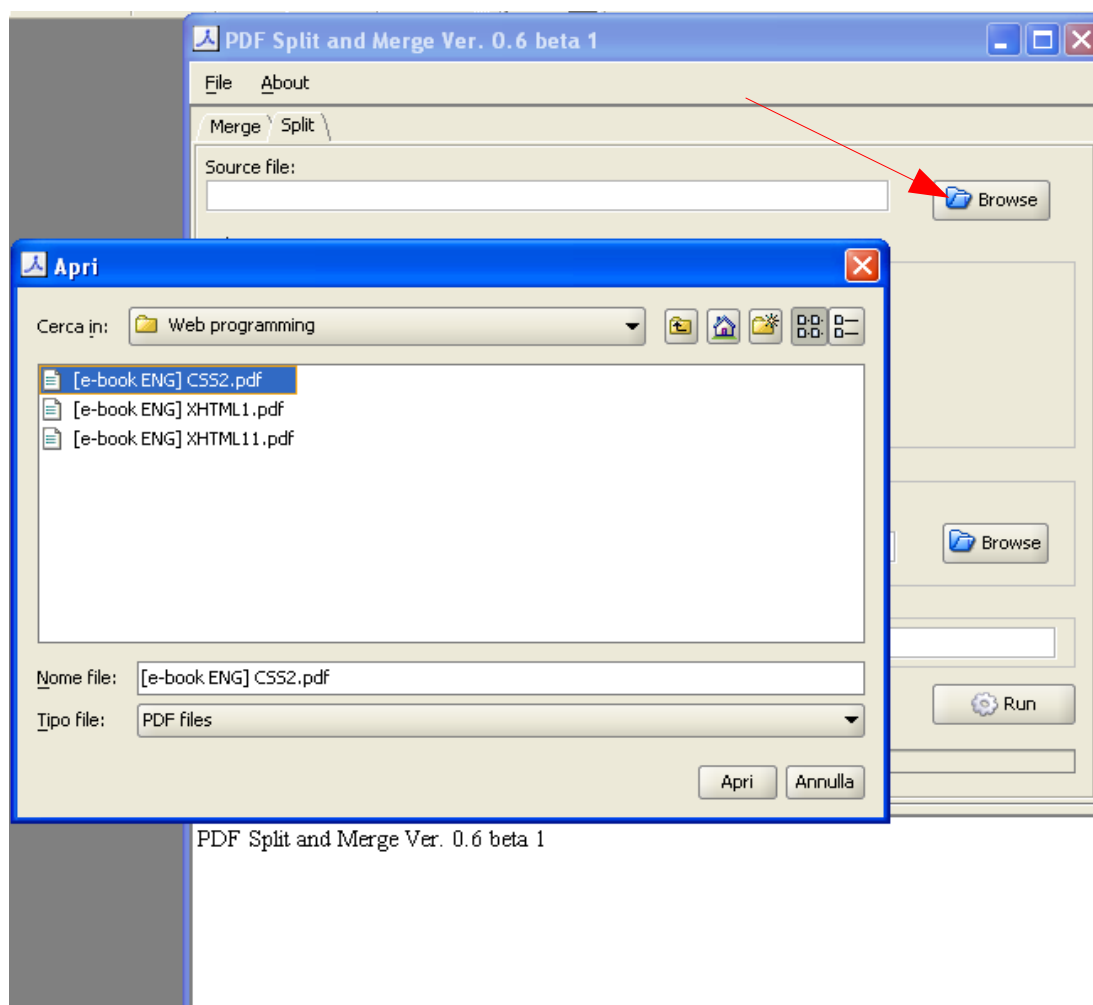


SPLIT

Here is the split main window:



Click the "Browse" button to select the pdf file to split.



Select the split option you need:

Split options:

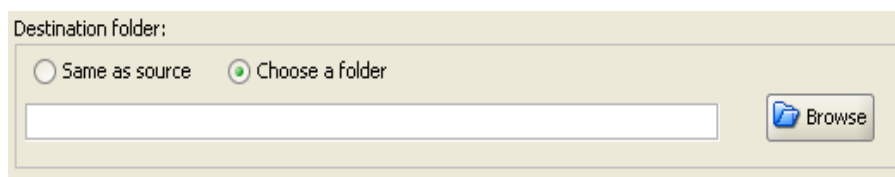
☐ Burst (split into single pages)
 ☐ Split after these pages

☐ Split every "n" pages

☐ Split even pages
 ☐ Split odd pages

- *Burst* splits the pdf file into single pages, one pdf file-one page.
- *Split every "n" pages* splits the pdf file into files made of "n" pages. (Ex. If you selected a file made of 100 pages and you split it every 25 pages, you'll have 4 pdf files made of 25 pages).
- *Split even pages* splits the pdf file every even page.
- *Split odd pages* splits the pdf file every odd page.
- *Split after these pages* splits the pdf file at the submitted page numbers. Numbers must be separated by "-" (Ex. 12-45-75). You may specify just one page number to split the document in two subdocuments. Note that page numbers will be ordered and zero, negative or too big numbers are pruned.

Select the destination folder for resulting pdf files:

A dialog box titled "Destination folder:". It contains two radio buttons: "Same as source" (unselected) and "Choose a folder" (selected). Below the radio buttons is a text input field. To the right of the input field is a "Browse" button with a folder icon.

Destination folder can be chosen clicking the "Browse" button and finding the folder on your filesystem or selecting "Same as source", with this option you'll have all output pdf files in the same directory as the source file.

Select output prefix if needed.

A dialog box titled "Output options:". It contains a label "Output file names prefix:" followed by a text input field containing the text "pdfsam_".

Output files will be named with the same name of the input pdf file and with a progressive leading number. You can specify a prefix for the output name and the final result will be something like "0_prefix_filename.pdf".

Click "Run" and you find the operation result in the log section.

CONSOLE

pdfsam-console is a command line application. It uses jcmdline to parse input parameters and it executes the proper command. It's the core application and it provides pdf manipulation. The main GUI loads plugins, once clicked the plugin "Run" button (merge or split), the plugin performs input data validation and, if everything is correct, it creates an arguments array and then it sends it to the console.

To run the console type the following command: `java -jar /PATH_TO_PDFSAM/lib/pdfsam-console-CURRENT_VERSION.jar`

Here is a list of the console arguments:

Usage: Pdfsam options command

where:

command = command to execute {[concat], [split]} (required)

and options are:

Merge

-?

prints usage to stdout; exits (optional)

-f <file>

pdf files to concat. a list of existing pdf files (EX. -f /tmp/file1.pdf -f /tmp/file2.pdf)

-h

prints usage to stdout; exits (optional)

-help

-l <file> displays verbose help information (optional)
 -log <file> csv file containing pdf files list to concat in comma separated value format (optional)
 -o <file> text file to log output messages (optional)
 -u <string> pdf output file. if it doesn't exist it's created, if it exists it must be writeable (required).
 page selection script. You can set a subset of pages to merge. Accepted values: "all" or "num1-num2" separated by ":" (EX. -f /tmp/file1.pdf -f /tmp/file2.pdf -u all:all:), (EX. -f /tmp/file1.pdf -f /tmp/file2.pdf -u all:12-14:) to merge file1.pdf and pages 12,13,14 of file2.pdf. If -u is not set default behaviour is to merge document completely (optional).
 -overwrite if passed, overwrite existing output file
 -version displays command's version (optional).

Split

-? prints usage to stdout; exits (optional)
 -f <file> input pdf file to split (required)
 -h prints usage to stdout; exits (optional)
 -help displays verbose help information (optional)
 -n <num> page number to split at if -s is SPLIT or NSPLIT (optional)
 -log <file> text file to log output messages (optional)
 -o <dir> output directory (required).
 -s <string> split type {[BURST], [ODD], [EVEN], [SPLIT], [NSPLIT]} (required)
 -version displays command's version (optional).

Examples:

```

java -jar pdpsam-console-0.4.3.jar -f c:\t.pdf -o c:\ -s ODD split
ava -jar pdpsam-console-0.4.3.jar -f c:\file1.pdf -f c:\file2.pdf -o c:\out_file.pdf -u all:1-3: concat
  
```

TWEAK&TIPS

If you have some trouble loading plugins try this:

- Open the file config.xml with good editor (Notepad++..) .
- Fill the tag "*plugins_absolute_dir*" with the absolute path to your plugins directory .
- Save .

pdfsam tries to find plugins directory but, if there's some trouble, you can specify the absolute path as described.

You can change pdfsam look in this way:

- Open the file config.xml with good editor (Notepad++..) .
- Change value in tag "*LAF*" with a number from 1 to 6 .
- If you selected a LookAndFeel from 3 to 5 you can even select a theme from 0 to 12 setting it in tag "*theme*".
- Save .

You can extract portion of a single file:

- In merge section select only one file.
- Set a the page subset you need to extract (Ex. 12-23).
- Select an output file.
- Merge.

You can change language this way:

- Open the file config.xml with good editor (Notepad++..) .
- Change value in tag "*l18n*" with a language code en_GB, it_IT, sv_SE, pt_BR....
- Save .

pdfsam tries to find the language you specified and if can't find it the default language will be used.

MORE INFO ABOUT PLUGS

If you are interested in plugin developing here is what you need to know:

You'll have access to functionality provided by iText library and pdfsam-console. You plugin must have a GUI and this GUI must implement it.pdfsam.interfaces.PlugablePanel interface and must extend javax.swing.JPanel.

If you want to send a message to the main Graphical Interface set the properties read by "*getLogMsg()*" and "*getLogColor()*" and than fire a property change "*firePropertyChange*(*"LOG"*, *null*, *"LOG_UPDATED"*)".

Deployment must be made creating a directory under "*plugins*" folder, moving in that directory you jar file and creating in the same directory a file named config.xml.

Config.xml must be written as shown above where classpath is the path to the GUI main class to load at startup.

```
<?xml version="1.0" encoding="UTF-8"?>
<plugin>
  <data>
    <classname>
      it.pdfsam.plugin.merge.GUI.MergeMainGUI
    </classname>
  </data>
</plugin>
```

THANKS TO OPEN SOURCE PROJECTS INVOLVED

This simple tool is free software and this has been possible thanks to many other open source projects.

I'd like to thank:

Ubuntu linux distro because most of the time i work on pdfsam at home, on my personal pc.

Eclipse, the development platform i used.

OpenOffice, the suite i used to write this document.

Notepad++, the editor i used many times to make changes in text files (php, txt etc) while working on win32 platform.

SourceForge because it hosts pdfsam givin' me a lot of usefull services.

WordPress for the website.

phpBB for the forum.

iText library, **jGoodies** and **jcmdline** library to make pdfsam a working tool.

David Vignoni for his icons.

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