

PDF SPLIT AND MERGE 1.3.0E BETA TUTORIAL

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

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WHAT IS PDFSAM ENHANCED?

PDF Split and Merge is a very simple, easy to use, free, open source utility to split, merge, encrypt and manipulate pdf files. It has a simple graphical interface to let the user choose pdf files and manipulate 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-1.4.8
- jcmdline-1.0.3
- jGoodies-2.1.1
- dom4j-1.6.1
- jaxen-1.1
- bcmail-jdk14-135.jar
- bcprov-jdk14-135.jar

It uses itext-2.0.2 library to manipulate pdf files, looks-2.1.1 to have a nice and changeable look and feel, jcmdline-1.0.3 to parse and validate console input arguments, dom4j-1.6.1 and jaxen-1.1 to deal with xml format.

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 needs 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 versions and on Ubuntu using J2SE 5.0 and J2SE 1.4.2 .

pdfsam-1.3.0e-b1.zip

Unzip the archive in a directory and double click the file pdfsam-1.3.0e-b1.jar or type the command "java -jar INSTALL_DIR/pdfsam-1.3.0e-b1.jar" in a console.

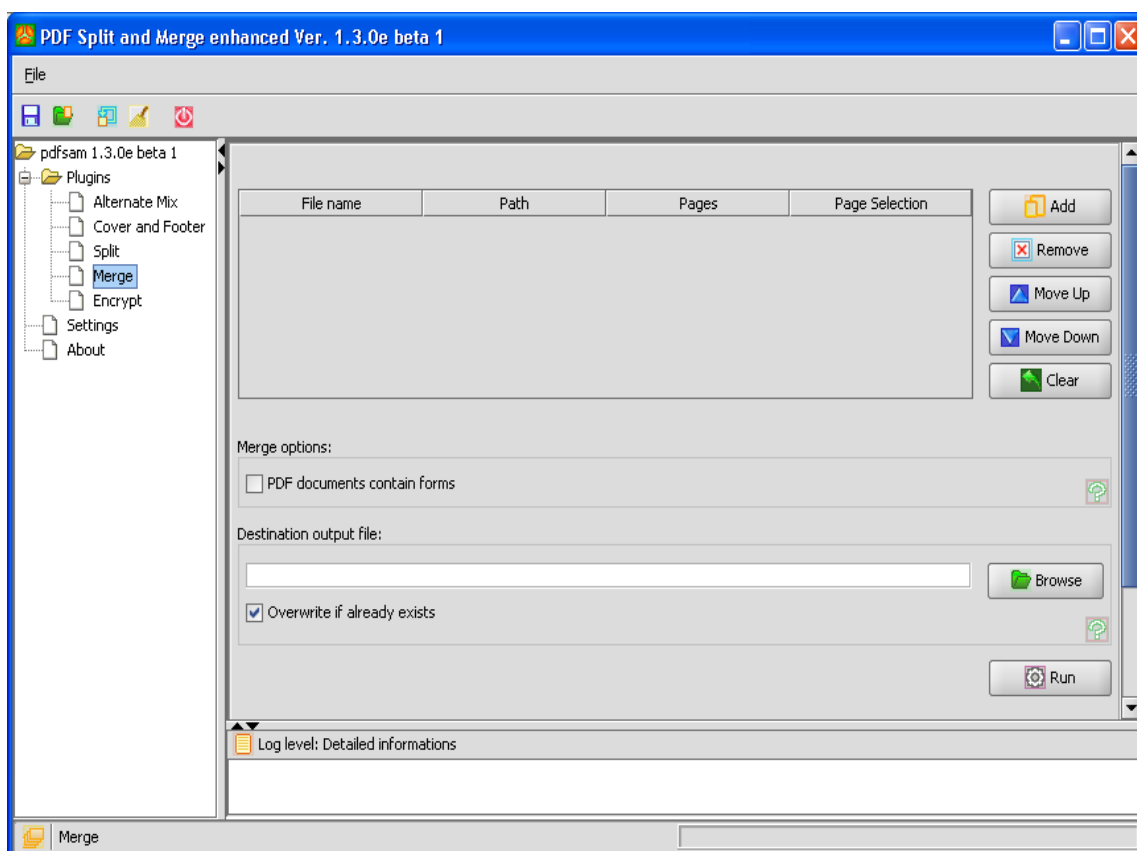
pdfsam-win32inst-v1.3.0e-b1.exe

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

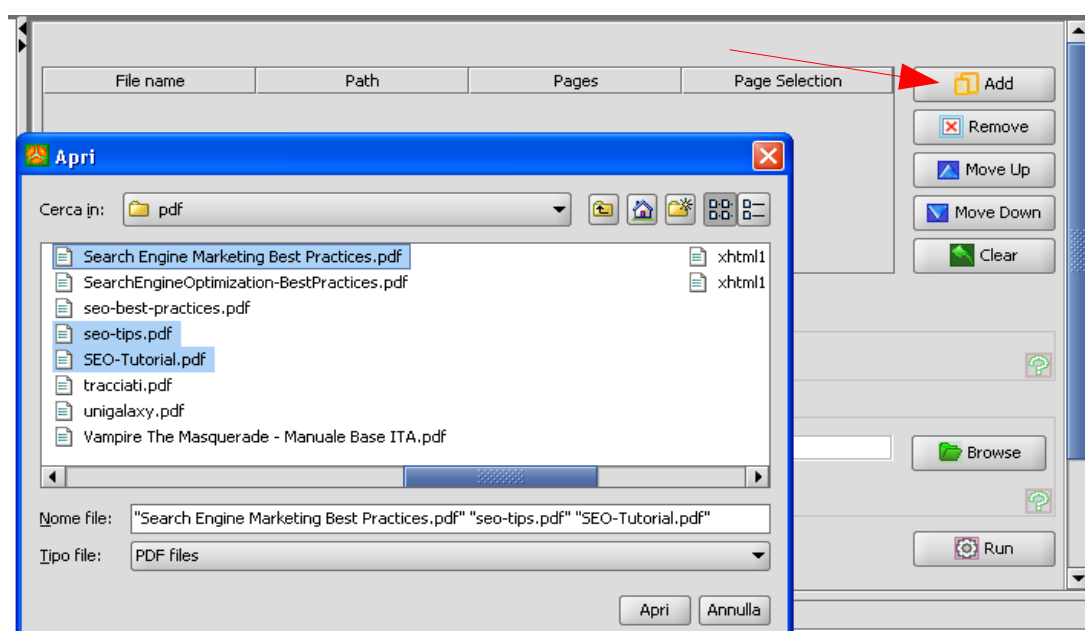
1 From the official <http://java.sun.com>

MERGE

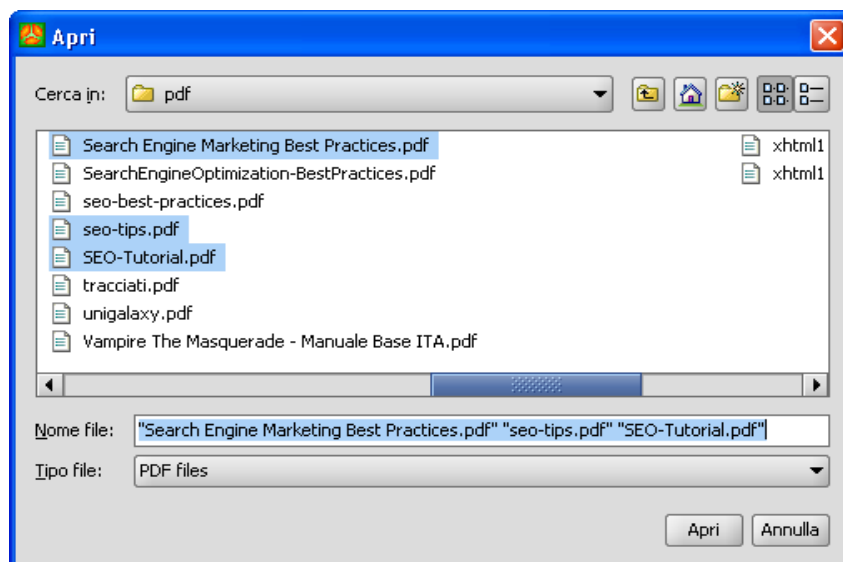
Here is the Merge main window:



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



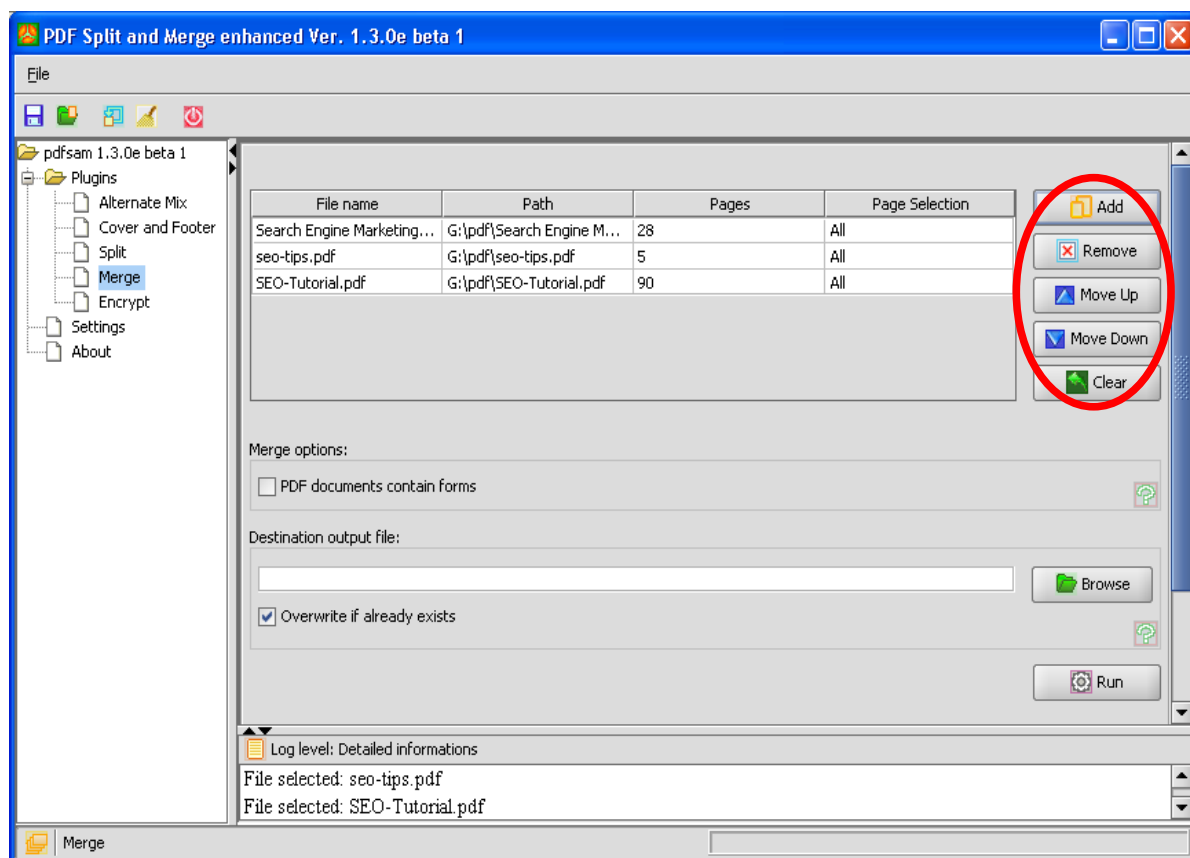
Select pdf files you want to merge; if you want to select more the one file press the "shift" button on you keyboard.



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, a single page number means that page. Comma separated value are accepted. (ex 4,13-25 if you want to merge page 4 and 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. 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 Selection
Search Engine Marketing...	G:\pdf\Search Engine M...	28	All
seo-tips.pdf	G:\pdf\seo-tips.pdf	5	All
SEO-Tutorial.pdf	G:\pdf\SEO-Tutorial.pdf	90	All

Check the box if your documents contain pdf forms. This will tell pdftsam to use a different merge algorithm specific to deal with forms. Setting this options all the documents will be loaded in memory with a very high memory usage.

Merge options:

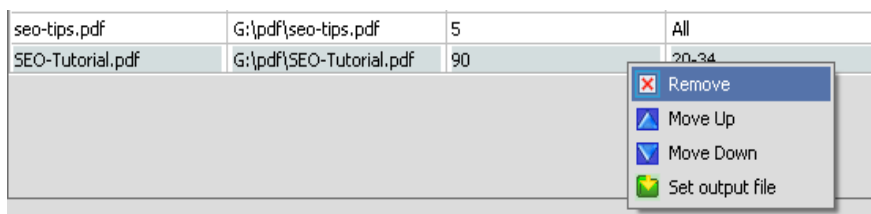
☐ PDF documents contain forms

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.

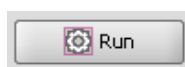
Destination output file:

☒ 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.

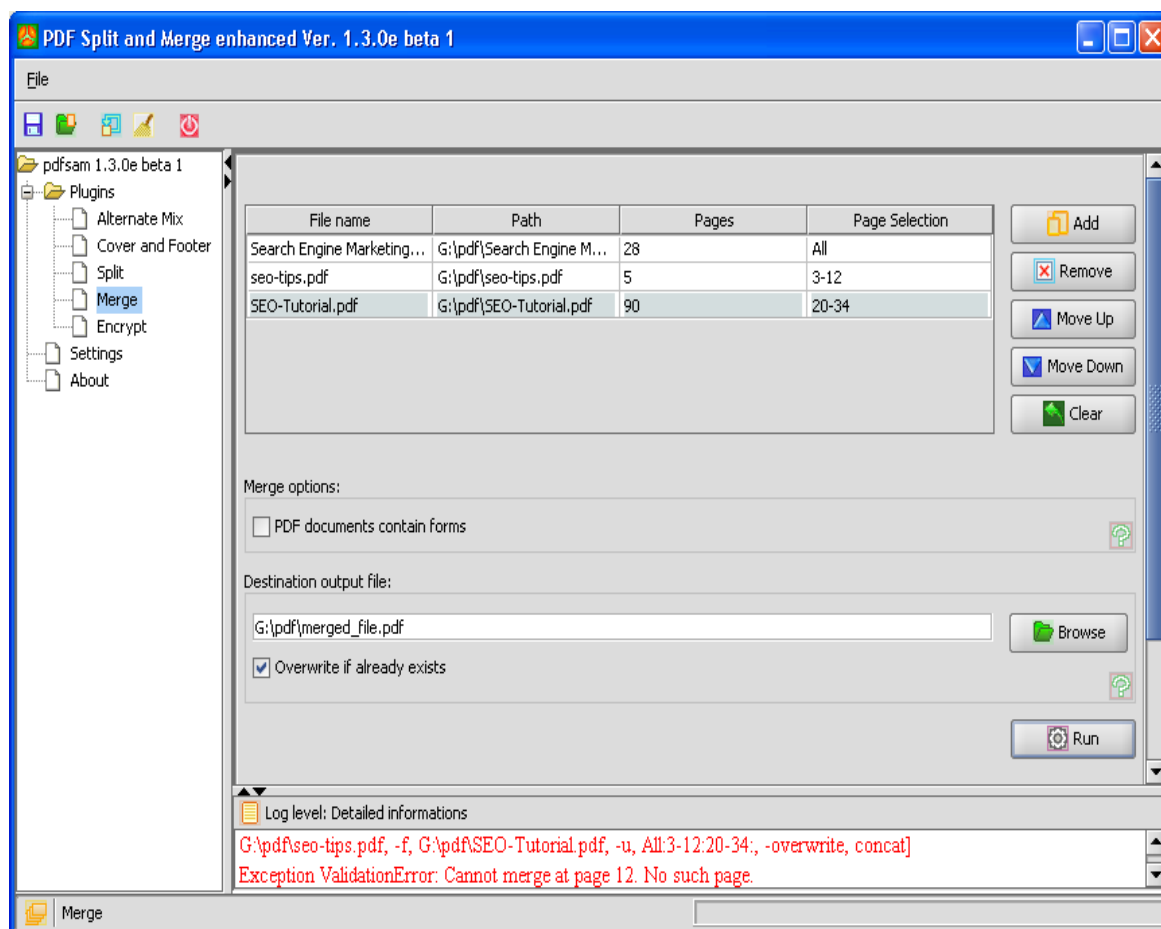


Click the "Run" button.



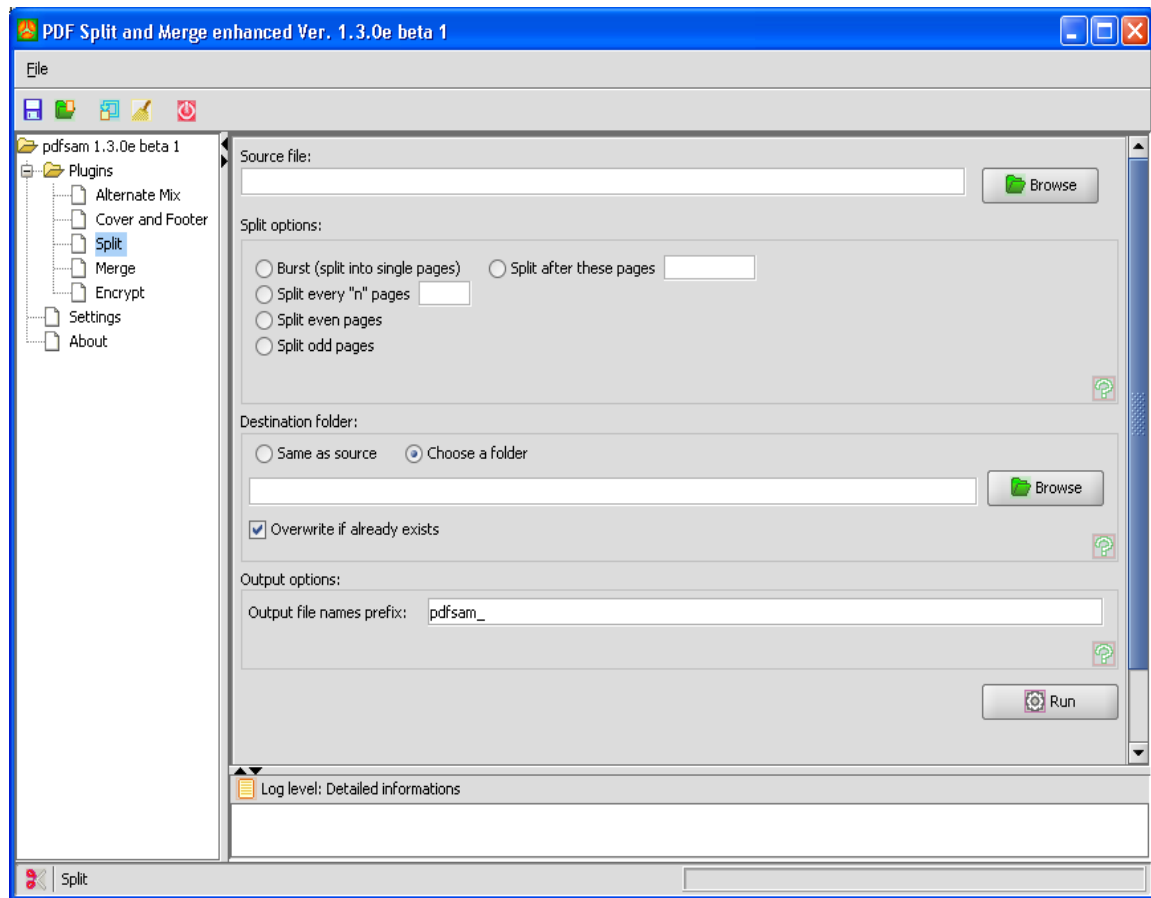
If no error occurs you'll see the progress bar growing till 100% and a black message on the log panel saying "Total processed pages: xxxx-", otherwise you'll find a red error message.

In the example above we had an error message saying we cannot merge pages between 3 and 120 because the document has only 5 pages.

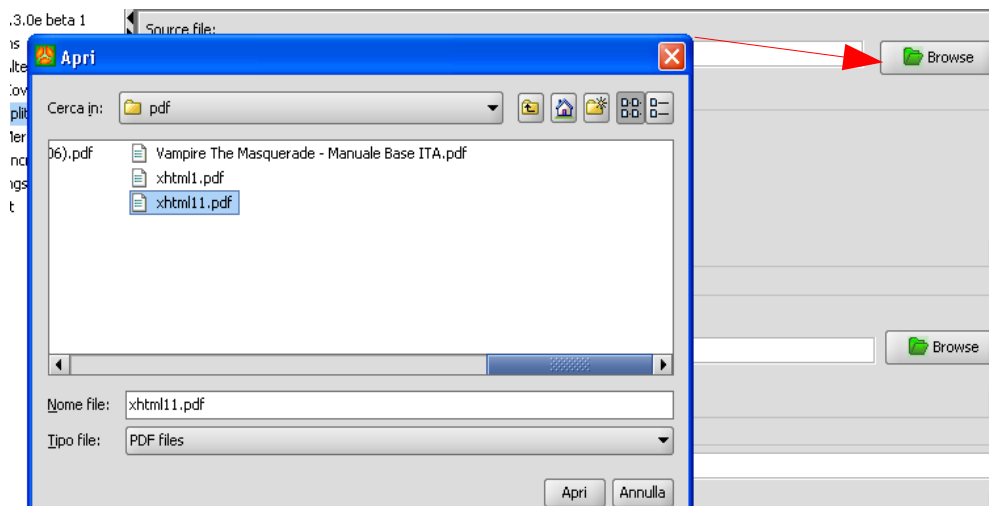


SPLIT

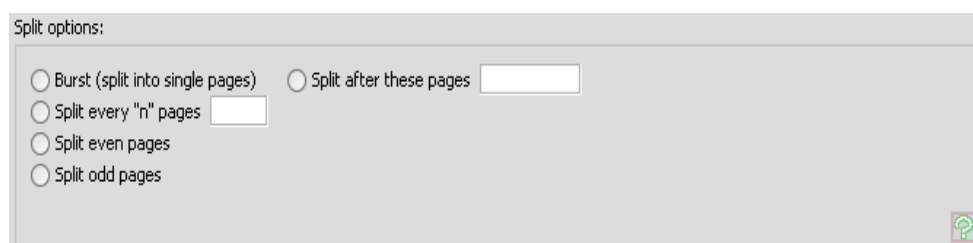
Here is the split main window:



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



Select the split option you need:



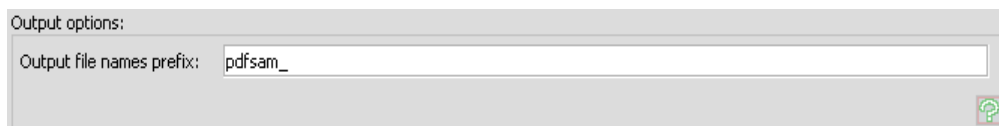
- *Burst* splits the pdf file into single pages, one pdf file-one page.
- *Split every "n" pages* splits the pdf file into files made of "n" pages. (Ex. If you selected a file made of 100 pages and you split it every 25 pages, you'll have 4 pdf files made of 25 pages).
- *Split even pages* splits the 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:



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.

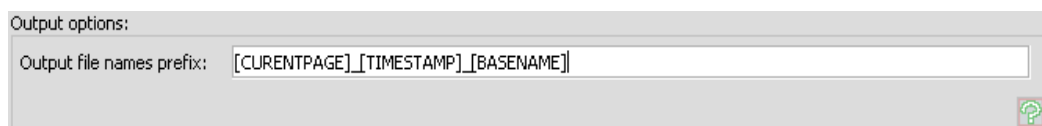


Output options:

Output file names prefix: pdftsam_

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".

Pdftsam also supports complex prefix. If the prefix contains one among [CURRENTPAGE] and [TIMESTAMP] complex prefix are enabled and pdftsam perform variable substitution. Available variables are [CURRENTPAGE], [TIMESTAMP], [BASENAME]. The variable [BASENAME] doesn't enable complex prefix because it doesn't ensure unique output filenames but it can be use together with [CURRENTPAGE] or [TIMESTAMP] or both.



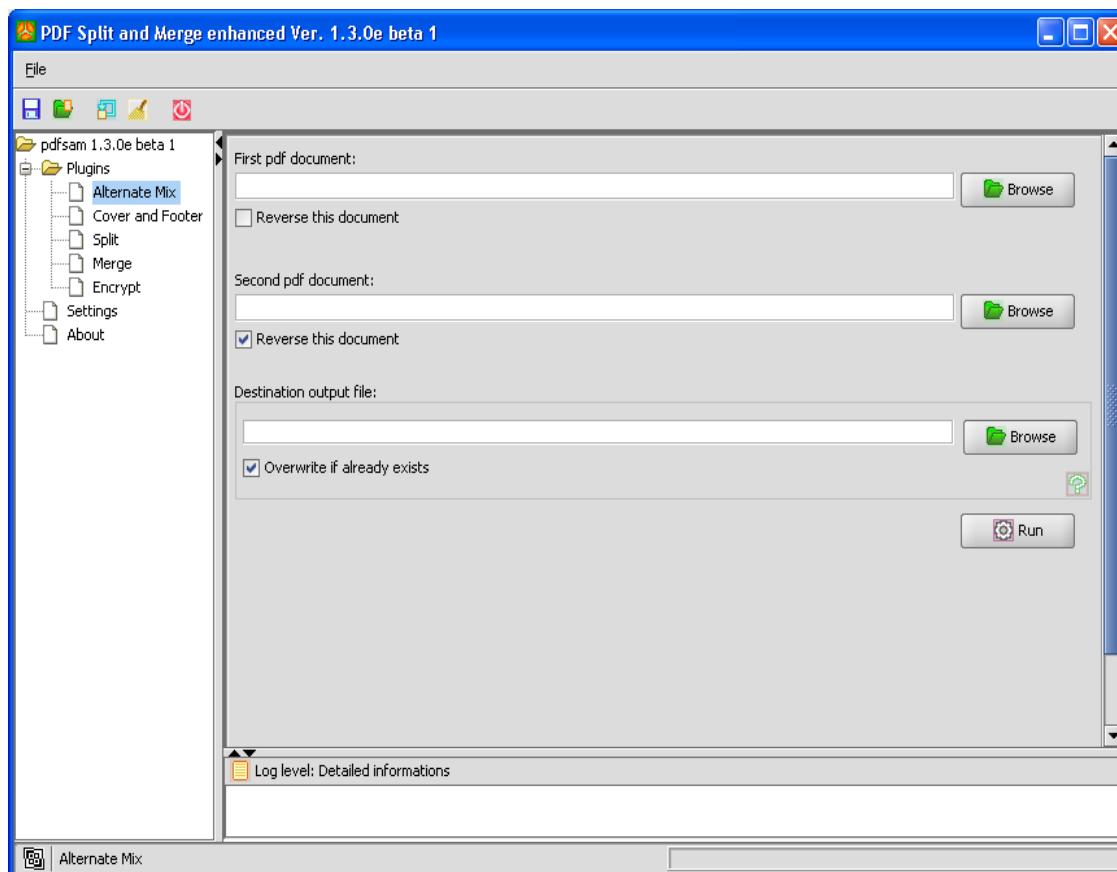
Output options:

Output file names prefix: [CURRENTPAGE]_[TIMESTAMP]_[BASENAME]

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

ALTERNATE MIX

Here is the Alternate Mix main window.



Click the "Browse" buttons to select the pdf files you want to mix.
Select if documents pages must be in reverse order or not.



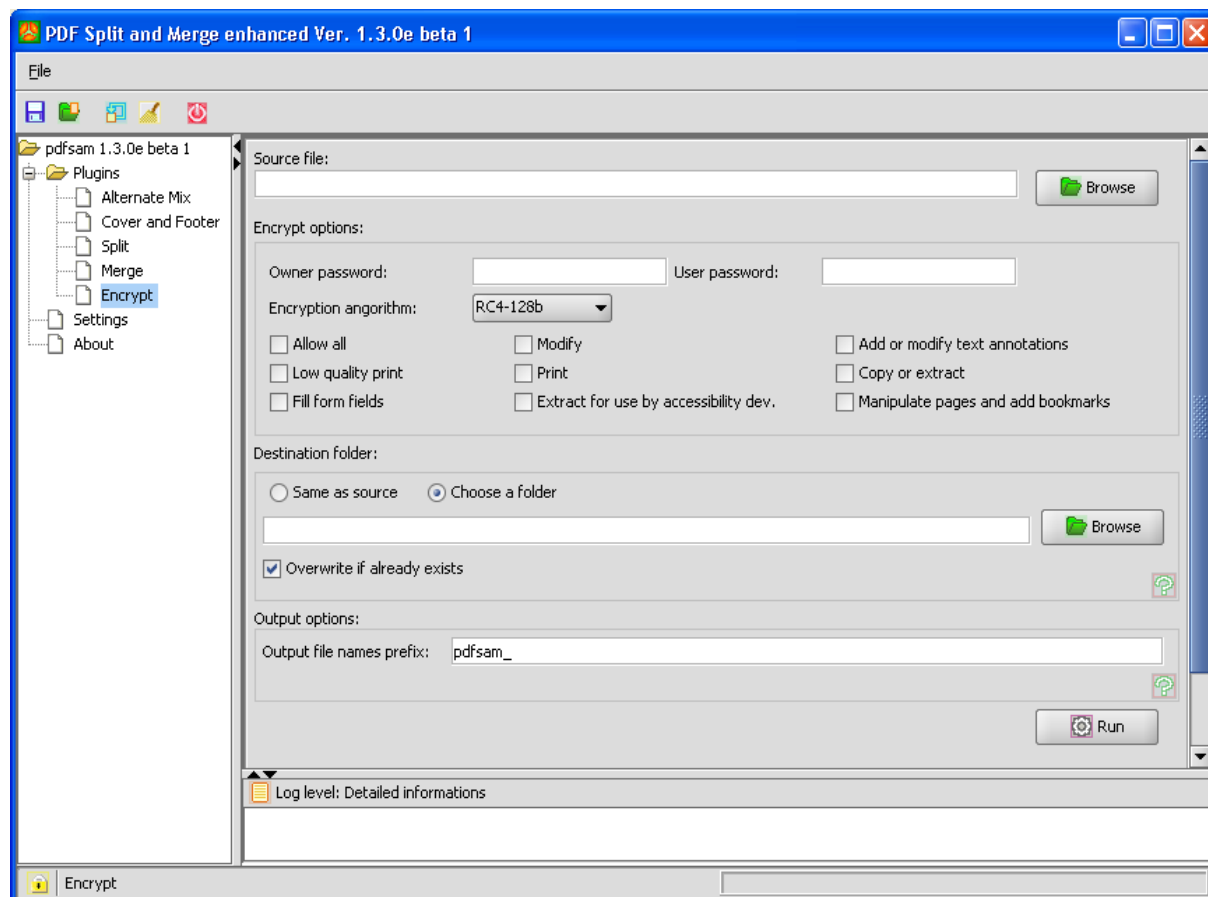
Select a destination output file and set if it should overwrite an already existing file.



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

ENCRYPT

Here is the Encrypt main window.



Click the "Browse" button to select the pdf file you want to encrypt.

Set the encrypt options:

- *Owner password*: The admin password to open the document with write permissions.
- *User password*: The user password to open the document with read permissions.
- *Encryption Algorithm*: The encryption type you want for your document.

Finally set the permissions for your document.



Select the destination folder for the resulting encrypted pdf file. Check or uncheck "Overwrite" if you want overwrite the output pdf document if it already exists.



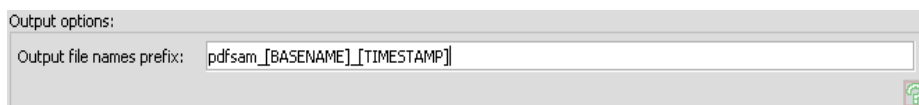
Destination folder can be chosen clicking the "Browse" button and finding the folder on your filesystem or selecting "Same as source", with this option you'll have all output pdf files in the same directory as the source file.

Select output prefix if needed.



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

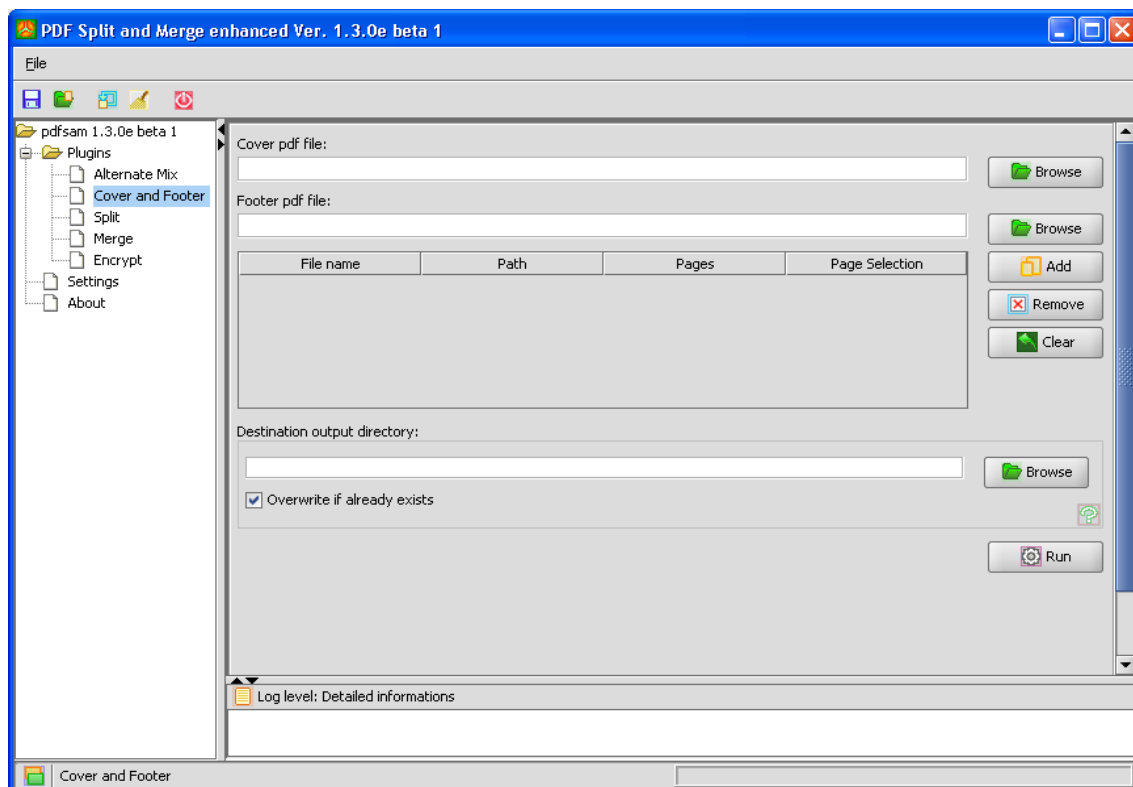
Pdftsam also supports complex prefix. If the prefix contains [TIMESTAMP], complex prefix are enabled and pdftsam perform variable substitution. Available variables are [TIMESTAMP], [BASENAME]. The variable [BASENAME] doesn't enable complex prefix because it doesn't ensure unique output filenames but it can be use together with [TIMESTAMP].



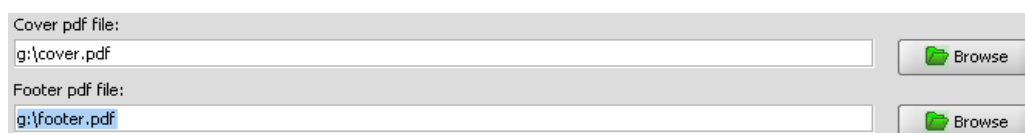
Click "Run" and you find the operation result in the log section.

COVER AND FOOTER

Here is the Cover and Footer main window.

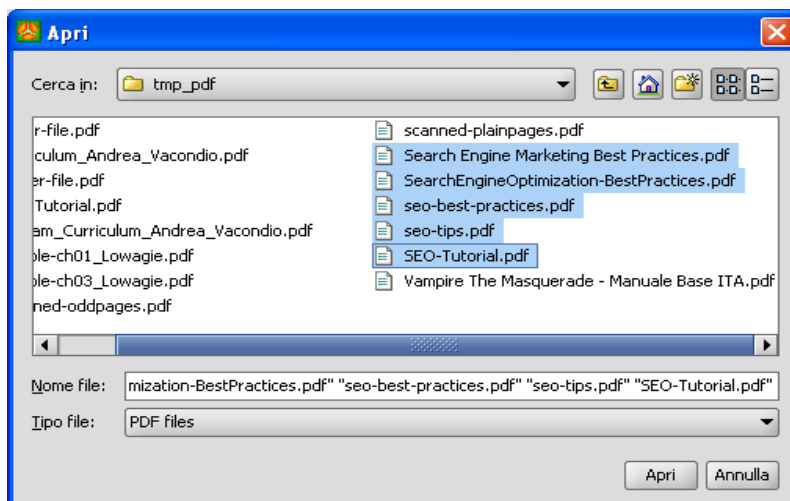


Click the "Browse" buttons to select the pdf file you want to add as a cover or a footer or both.



Click the "Add" button to choose the pdf files you want to add you cover/footer.

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, a single page number means that page. Comma separated value are accepted. (ex 4,13-25 if you want to merge page 4 and pages between 13 and 25).

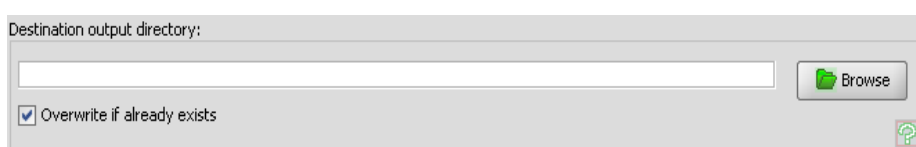
Use the buttons "Move Up", "Move Down" to change the files order or select one or more and drag&drop. Press "Remove" to remove unwanted file from the list.

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

Fill with the pages subset you want to merge; page numbers are comprehended.

File name	Path	Pages	Page Selection
Search Engine Marketin...	G:\tmp_pdf\Search Engi...	28	All
SearchEngineOptimizati...	G:\tmp_pdf\SearchEngi...	9	All
seo-best-practices.pdf	G:\tmp_pdf\seo-best-pr...	1	All
seo-tips.pdf	G:\tmp_pdf\seo-tips.pdf	5	All
SEO-Tutorial.pdf	G:\tmp_pdf\SEO-Tutori...	90	10-35

Fill the destination field with the output directory name or select it using the "Browse" button. Check or uncheck "Overwrite" if you want overwrite the output pdf documents if they 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.

File name	Path	Pages	Page Selection
Search Engine Marketin...	G:\tmp_pdf\Search Engi...	28	All
SearchEngineOptimizati...	G:\tmp_pdf\SearchEngi...	9	All
seo-best-practices.pdf	G:\tmp_pdf\seo-best-pr...	1	All
seo-tips.pdf	G:\tmp_pdf\seo-tips.pdf	5	All
SEO-Tutorial.pdf	G:\tmp_pdf\SEO-Tutori...	90	0-35

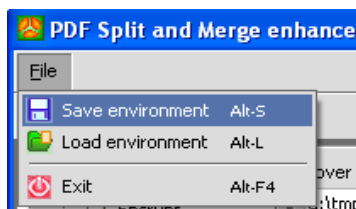
Remove
Set output file

Click the "Run" button.

For each file in your table, 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.

ENVIRONMENT

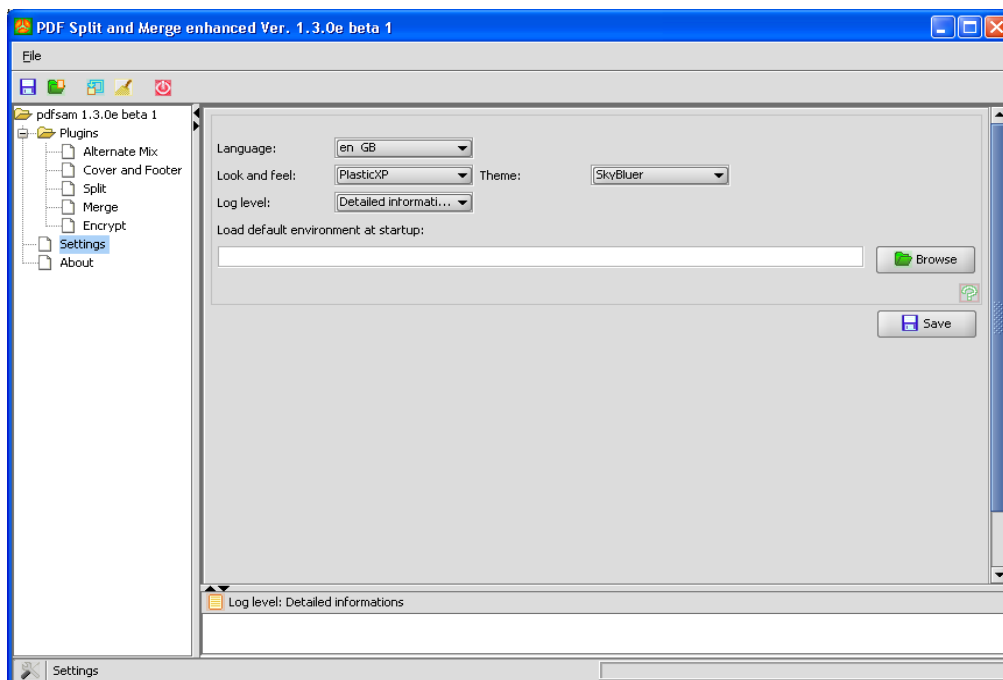
Using pdfsam enhanced you'll be able to save and load an environment.



The feature will let you save an xml file containing the current status of every pdfsam plugin. This feature is usefull if you have recurrent jobs and you don't want to set plugin options every time.

SETTINGS

Here is the Settings main window.



In this section you'll be able to set your preferences.

- *Language*: set your language
- *Look and feel*: pdfsam look and feel
- *Log level*: log messages level you want to see in the log panel.
- *Default environment*: pdfsam will load this file at start up.

Click "Save" and restart pdfsam to have your changes applied.

CONSOLE

pdpsam-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, 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/pdpsam-console-CURRENT_VERSION.jar"*

Here is a list of the console arguments:

Usage: Pdpsam options command

where:

command = command to execute {[concat], [split], [encrypt], [mix]} (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

displays verbose help information (optional)

-l <file>

csv file containing pdf files list to concat in comma separated value format (optional)

-log <file>

text file to log output messages (optional)

-o <file>

pdf output file. if it doesn't exist it's created, if it exists it must be writeable (required).

-u <string>

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

-copyfields

use this if input documents contain forms. This option will lead to a high memory

usage.

-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).

-overwrite
overwrite existing output file (optional)

-p <s>
prefix for the output files name (optional). If it contains "[CURRENTPAGE]" or "[TIMESTAMP]" it performs variable substitution. (Ex. [BASENAME]_prefix_[CURRENTPAGE] generates FileName_prefix_005.pdf). Available prefix variables: [CURRENTPAGE], [TIMESTAMP], [BASENAME]

-s <string>
split type {[BURST], [ODD], [EVEN], [SPLIT], [NSPLIT]} (required)

-version
displays command's version (optional).

Encrypt

-?
prints usage to stdout; exits (optional)

-allow <s>
permissions: a list of permissions {[print], [modify], [copy], [fill], [assembly], [screenreaders], [modifyannotation], [degradedprinting]} (optional)

-apwd <s>
administrator password for the document, max 32 chars (optional)

-etype <s>
encryption algorithm {[rc4_40], [rc4_128], [aes_128]}. If omitted it uses rc4_128

(optional)

-f <f>
pdf files to encrypt: a list of existing pdf files (EX. -f /tmp/file1.pdf -f /tmp/file2.pdf) (required)

-h
prints usage to stdout; exits (optional)

-help
displays verbose help information (optional)

-log <f>
text file to log output messages (optional)

-o <dir>
output directory (required)

-p <s>
prefix for the output files name (optional). If it contains "[TIMESTAMP]" it performs variable substitution. (Ex. [BASENAME]_prefix_[TIMESTAMP] generates FileName_prefix_20070412231928.pdf).

Available prefix variables: [TIMESTAMP], [BASENAME]

-upwd <s>
user password for the document, max 32 chars (optional)

-overwrite
overwrite existing output file (optional)

-version
displays command's version (optional)

Examples:

```
java -jar pdfsam-console.jar -f /tmp/1.pdf -o /tmp -apwd hallo -upwd word -allow print -allow fill
-etypc rc4_128 -p encrypted_ encrypt
```

Mix

-?
prints usage to stdout; exits (optional)

-f1 <f>
first input pdf file to split (required)

-f2 <f>
second input pdf file to split (required)

-h
prints usage to stdout; exits (optional)

-help
displays verbose help information (optional)

-log <f>
text file to log output messages (optional)

-o <f>
pdf output file: if it doesn't exist it's created, if it exists it must be writeable
(required)

-overwrite
overwrite existing output file (optional)

-reversefirst
reverse first input file (optional)

-reversesecond
reverse second input file (optional)

-version
displays command's version (optional)

Examples:

```
java -jar pdfsam-console.jar -o /tmp/outfile.pdf -f1 /tmp/1.pdf -f2 /tmp/2.pdf -reversesecond mix
```

TWEAK&TIPS

If you have some trouble loading plugins try this:

- Open the file config.xml with good editor (Notepad++..) .
- Fill the tag *“plugs_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 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.

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

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.

dom4j and **jaxen** libraries.

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

Elisa Bortolotti for her icons.

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All the others..

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Version 2, June 1991

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