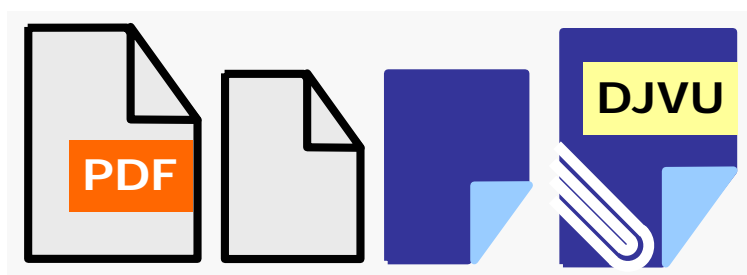


Konstantin Kravtsov's

Djvu-Spec Pdf 2 DjVu Converter v.1.x.x

User Manual



Djvu-Spec
2016

About User manual

User manual is written by Kravtsov K.I.

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No animal suffered from this manual!

<h2>Collaboration</h2>
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DjVuLibre project maintained by Leon Bottou, Yann LeCun, Bill C Riemers, and Jeffery Triggs

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1. About

Djvu-Spec Pdf 2 Djvu Converter (DSP2D) – user-friendly GUI application. It help you easy convert pdf to djvu.

Djvu-Spec Pdf 2 Djvu Converter written by [Kravtsov Konstantin Ivanovich](#)

[Project on SourceForge net](#)

[Discussion on ru-board](#)

Main features:

- Easy point'n'click changing options.
- All pdf2djvu options used.
- Set of options can be stored as "profile".
- Autosave of last applied options (profile «Last start»).
- Support command line (convert pdf from explorer's «Open with»).
- Autaname of target djvu.
- Transfer all available pdf data.

IDE - Delphi 7.

Converter engine - [pdf2djvu](#) by Jakub Wilk.

1.1 License

[GNU GENERAL PUBLIC LICENSE Version 2](#)

Use it free for any legal purposes.

1.2 System requirements

Hardware – Pentium IV, 1Gb RAM, 2Gb free space on disk, where temp folder located.

For viewing source and converted e-book install:
--

[WinDjView](#). Or any viewer, associated with "djvu" file extension.

[Adobe Reader](#) Or any viewer, associated with "pdf" file extension.

2. Capabilities

PDF good, rich of useful features, but DjVu much faster and easier to work with, require no fonts. Djvu can carry annotations, hidden text layer in UTF8, outline (bookmarks). Often DjVu more comfortable.

It's a pity that djvu used rare.

This application help to easy convert pdf e-book to djvu e-book.

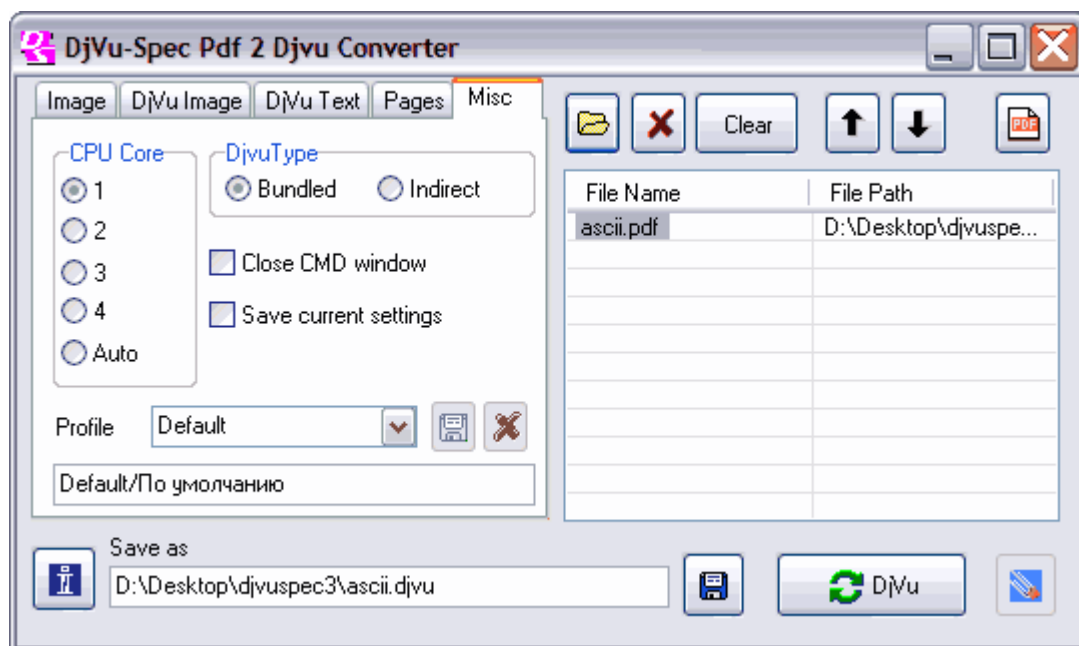
Used engine of Jacob Wilk [pdf2djvu](#) good, but it rich option hard to enter manually. My application simplify it use. Support of profiling allows to use presets ("profile"). The bad news is that [DjvuLibre](#) utilities, used by pdf2djvu, do not capable to make djvu with shared dictionary – so djvu obtained not so compact. You may convert with "Recode Next", save separately foreground and background by WinDjview in tiff, then make smaller djvu by DjvuSmall and DjvuImager.

Application support drag'n'drop of pdf's to add files (~60 files - more - can get error after convert).

Application supports opening files from Explorer's context menu. Right click on **pdf** file (now only one). Select item Open with -> Pdf 2 Djvu Converter . (If it not present, add it manually "Choose default program"->"Browse". Choose installation path and select p2d.exe).

3. Main window

After launch see:



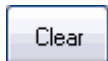
«Add PDF to file list» - uses standard dialog for open file. Support multiple select. All choosed pdfs will be converted to single djvu with common settings.

File Name	File Path

Simple file list. On left file name, on right – file path.



«Delete selected» – remove selected file from file list.



«Clear all file list» - clear file list.



«Move file higher/lower in order» – move selected file up or down in order. Pdf pages will be placed in djvu in file list order.



«View selected PDF» - open selected file for view in default viewer.



- show window «About».



«Select target djvu name and path» - standard dialog for set name and path.

Save as
D:\Desktop\djvuspec3\ascii.djvu

name and path of djvu created.



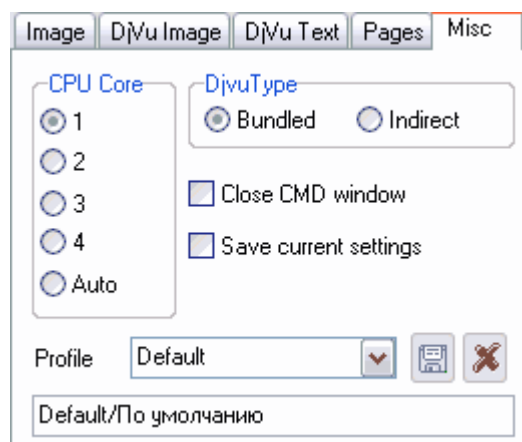
«Convert PDFs to one DjVu» - make conversion.



«View target DjVu» - view created djvu after conversion in default viewer.

To the left from file manager placed tabs with options, described later.

4. Tab «Misc»







«CPU Core» - how many cpu cores to use. Current pdf2djvu does not use. Always used 1 core.

«Djvu Type» - Bundled – all pages in one file. Indirect – every page as separate file.

«Close CMD window» - pdf2djvu starts in cmd-window and that window can be closed automatically after conversion. Pdf2djvu calculates statistics, which can be interested to view and close cmd-window manually.

«Save current settings» - save conversion settings in profile "Last start".

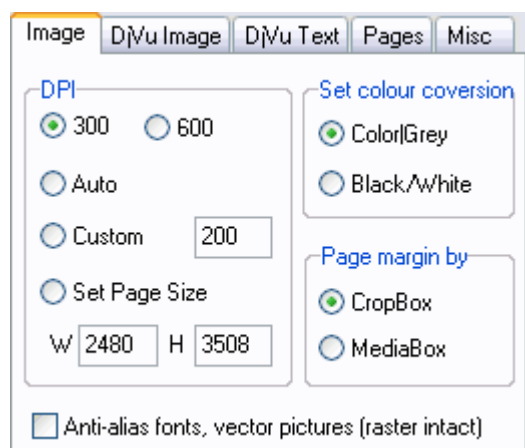
«Profile» - dropdown list to change profile using. After choose profile will be loaded and applied.

  /   - disabled/enabled buttons for save and delete profile. Profiles "Last start" and "Default" cannot be changed or deleted and buttons will be disabled on them (you can edit p2d.ini manually).

Below «Profile» field for profile description. Editable.

To create new profile simply set options and enter profile name in dropdown "Profile", enter description text in edit box below. Then press "Save Current Profile" button.

5. Tab «Image»



"DPI" – set dpi of converted pdf page.

Allowed 300, 600 dpi.

Auto – (not recommended) autodetect.

Custom – set manually (1-1200 allowed).

Set Page Size – set pixel dimensions. Pdf page will be resized to fit.

Anti-alias fonts, vector pictures – soften edges of image for djvu foreground layer.
Not recommended – increase file size.

"Set colour conversion"

Color/Grey – image colors will be as is (see "Djvu Image").

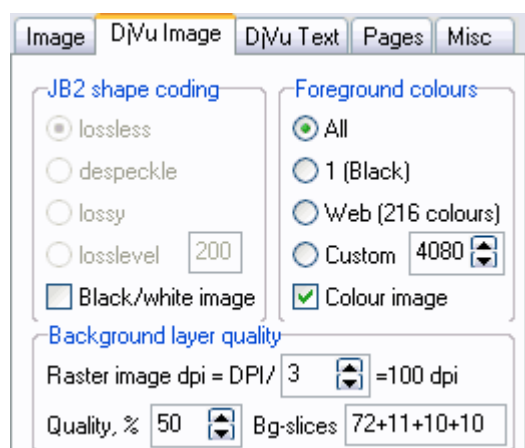
Black/White – image converted to 1-bit color (see "Djvu Image").

"Page margin by"

CropBox – cropbox (what you see) parameter of pdf will be used as page margin.

MediaBox – mediabox parameter of pdf will be used as page margin.

6. Tab «Djvu Image»



"JB2 shape coding"

lossless – image coded without loss (losslevel=0).

despeckle – little dot noise will be removed (losslevel=1).

lossy – jb2 shape coding (losslevel=100).

losslevel – manual set of losslevel (0=<losslevel=<200).

Black/White image – similar to set "Image"-"Set colour conversion"-"Black/White".

Important note. JB2 DjvuLibre codec can't preserve halftone raster:

Source PDF	JB2 lossless	JB2 lossy

Use lossless option to preserve halftone raster. It makes JB2 compress capabilities useless...

"Foreground colours"

pdf2djvu for colour/grey coding saves vector font and drawings as foreground djvu layer (jb2-coded), raster – as background layer (IW44-coded). Images coded by csepdjvu.

Foreground layer can contain colors (as djvu 3 specification 1-4080 colors).

All – all possible colors will be saved.

1 (Black) – all colors converted to black.

Web (216 colors) – colors will be reduced to 216-colors web palette.

Custom – manually set number of colors (1-4080). Does not work now. May be later Wilk make workable this option.

Colour image – similar to set "Image"-"Set colour conversion"-"Color/Grey".

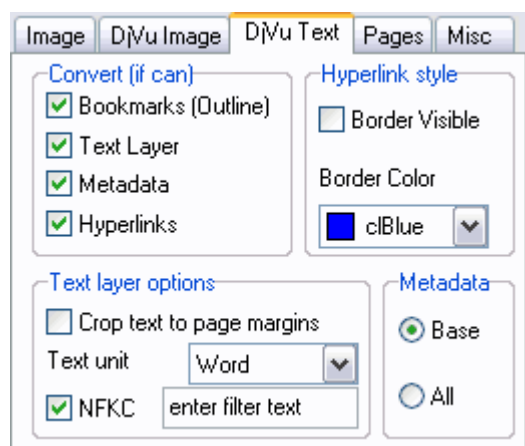
"Background layer quality"

Raster image dpi – divider from 1 to 12. On right side shown calculated final resolution of background layer.

"Quality, %" – set quantity of image data to be stored in background layer. % similar to jpeg quality. 0 – user defined.

Bg slices – enter bg-slices parameter for IW44-codec (Quality will be set to 0).

7. Tab «DjVu Text»



"Convert (if can)" – options of transfer if item exist in source pdf. If some data absent nothing will be done.

Bookmarks (Outline) – set to transfer outline.

Text layer – set to transfer hidden text layer.

Metadata – set to transfer metadata. Additional options see "Metadata" below.

Hyperlinks – set to transfer hyperlinks.

"Text layer options" – additional options of text layer transfer.

Crop text with page margins – set if need to transfer text in page margins only (setted on "Image" tab).

Text unit – set minimal text block – word or line. Word is preferred for exact text selection.

NFKC – [normalization of Unicode chars](#).

In input box you can set filter, which must preserve whitespace, control characters and decimal digits. Manually setted filter turns NFKC off.

"Hyperlinks"

Border visible – set to turn on visibility of hyperlink rectangle.

Border color – set border color of hyperlink rectangle.

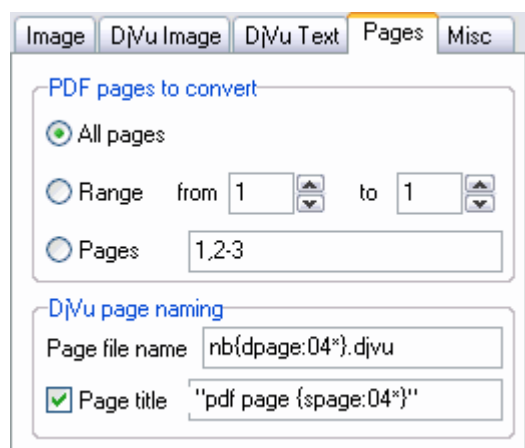
Объем переносимых метаданных (просматриваются только в) можно задать в группе "Метаинфо". В случае нескольких входных документов используются только метаданные из первого.

"Metadata" – (can see only in DjView DjvuLibre). If converted 2 or more pdfs metadata will be used from first pdf in file list.

Base – Bibtex (Title, Author, Subject, Creator, Producer, CreationDate, ModDate. Time stamp according to [RFC 3999](#). Date and time separated by space.)

All – all available metadata transferred.

8. Tab «Pages»



"PDF pages to convert"

Warning! If file list contains 2 or more pdfs then, if set to convert, for example, pages from 1 to 1, only 1st page of each pdf will be converted. Option set to all pdfs.

All pages – all pages will be converted.

Range from ... to ... - set page range.

Pages – set page numbers in ascending order separated by comma (e.g. 1, 5, 10). Page range setted using dash (1-3 – pages from 1 to 3).

"DjVu page naming"

Page file name – set page file name with .djv or .djvu extension.

Name must be composed from lowercase ASCII letters, digits, `_`, `+`, `-` and `.`, cannot start with a plus, dash, comma or a dot, cannot contain two consecutive dots.

Page title – page can have a title (can see only in DjView DjvuLibre). Any symbols. Start and end with quotes if space present.

Name and title can be set by template.

Template syntax: The template language is roughly modelled on the [Python string formatting syntax](#).

A template is a piece of text which contains fields, surrounded by curly braces `{}`. Fields are replaced with appropriately formatted values when the template is evaluated. Moreover, `{{` is replaced with a single `{` and `}}` is replaced with a single `}`.

Field syntax: Each field consists of a variable name, optionally followed by a shift, optionally followed by a format specification. The shift is a signed (i.e. starting with a `+` or `-` character) integer. The format specification consists of a colon, followed by a width specification.

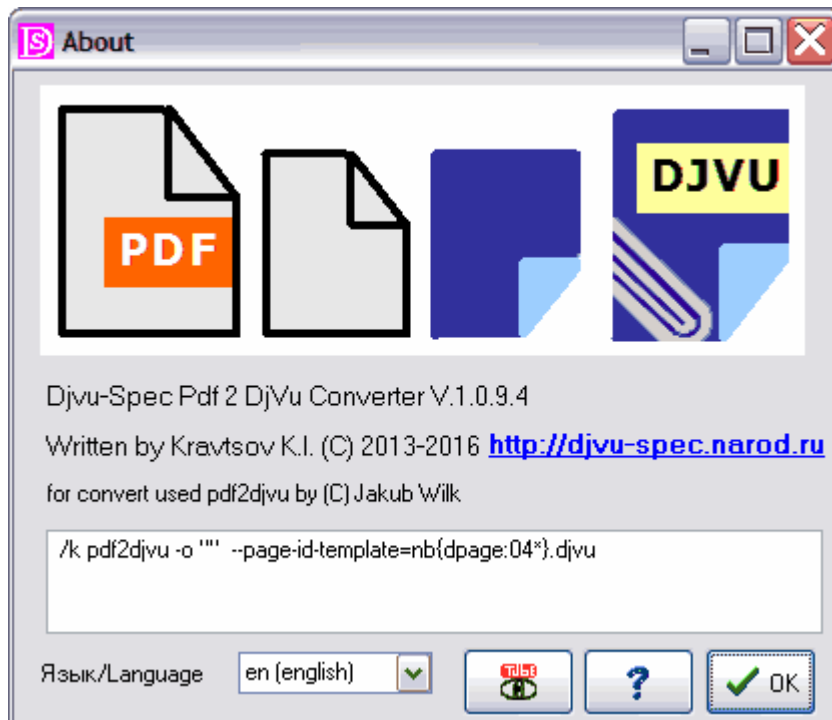
The width specification is a decimal integer defining the minimum field width. If not specified, then the field width will be determined by the content. Preceding the width specification with a zero (0) character enables zero-padding. The width specification is optionally followed by an asterisk (*) character, which increases the minimum field width to the width of the longest possible content of the variable.

Available variables

page, spage - Page number in the PDF document.

dpage - Page number in the DjVu document

9. Window «About»



Edit box shows prepared string for pdf2djvu launch.

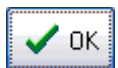
Язык/Language – dropdown list to choose language:
ru (русский),
en (english)).



- open help file in default system pdf viewer.



- open video help in default internet browser.



- close "About" window.