

jdrutils

Version 1.3

Nicola Talbot

July 14, 2009

Abstract

Jpgfdraw comes with a number of command line applications for converting JDR and AJR files to other formats. There are currently no tools for converting other formats to JDR or AJR. This document describes those applications.

Contents

1	ajr2jdr	1
2	jdr2ajr	2
3	jdr2eps	2
4	jdr2png	3
5	jdr2svg	3
6	jdr2tex	3
7	eps2jdr	4

1 ajr2jdr

Syntax:

```
ajr2jdr [options] ajr file jdr file
```

Purpose:

Converts an AJR file (specified by *ajr file*) to a JDR file (specified by *jdr file*.)

Options:

-settings [*n*] Controls how settings are saved in the output file. Optionally followed by an integer *n* (if omitted *n*=1):

- 0** don't save settings
- 1** save all settings
- 2** only save paper size (v1.3 only, for earlier versions equivalent to 0)
- nosettings** Equivalent to **-settings 0**
- settings.as.input** Only save settings if they were given in the input file (Default)
- v1.0** Use version 1.0 for the output format. (You may lose information if the input file has a higher version number.)
- v1.1** Use version 1.1 for the output format. (You may lose information if the input file has a higher version number.)
- v1.2** Use version 1.2 for the output format.
- v1.3** Use version 1.3 for the output format.
- v1.4** Use version 1.4 for the output format. (Default)

2 jdr2ajr

Syntax:

```
jdr2ajr [<options>] <jdr file> <ajr file>
```

Purpose:

Converts a JDR file (specified by *<jdr file>*) to an AJR file (specified by *<ajr file>*.)

Options:

- settings [*<n>*]** Controls how settings are saved in the output file. Optionally followed by an integer *<n>* (if omitted *<n>*=1):
 - 0** don't save settings
 - 1** save all settings
 - 2** only save paper size (v1.3 only, for earlier versions equivalent to 0)
- nosettings** Equivalent to **-settings 0**
- settings.as.input** Only save settings if they were given in the input file (Default)
- v1.0** Use version 1.0 for the output format. (You may lose information if the input file has a higher version number.)
- v1.1** Use version 1.1 for the output format. (You may lose information if the input file has a higher version number.)
- v1.2** Use version 1.2 for the output format.
- v1.3** Use version 1.3 for the output format.
- v1.4** Use version 1.4 for the output format. (Default)

3 jdr2eps

Syntax:

```
jdr2eps <jdr file> <eps file>
```

Purpose:

Converts a JDR file to an EPS file.

Limitations:

Transparency is not implemented.

4 jdr2png

Syntax:

```
jdr2png <jdr file> <png file>
```

Purpose:

Converts a JDR file to a PNG file.

Limitations:

The output file will use always RGB color space. Any CMYK specifications will be converted to RGB. The background color will be white not transparent.

5 jdr2svg

Syntax:

```
jdr2svg <jdr file> <svg file>
```

Purpose:

Converts a JDR file to an SVG file.

Limitations:

Gradient paint is not available for line or text color.

6 jdr2tex

Syntax:

```
jdr2tex <jdr file> <tex file>
```

Purpose:

Converts a JDR file to a L^AT_EX file containing a `pgfpicture` environment.

Limitations:

Gradient paint is not available for line or text color.

7 eps2jdr

Syntax:

```
eps2jdr [options] <eps file> <jdr file>
```

Options:

- bitmap** *<basename>* Extract bitmaps to be saved as *<basename>**<n>*.png.
- v1.0** Save as JDR version 1.0
- v1.1** Save as JDR version 1.1
- v1.2** Save as JDR version 1.2
- v1.3** Save as JDR version 1.3
- v1.4** Save as JDR version 1.4 (default)
- normalsize** *<n>* Set the normal L^AT_EX font size to *<n>*
- verbose** Verbose output
- version** Print current version number and exit

Purpose:

Converts an Encapsulated PostScript file to a JDR file.

Limitations:

`Jpgfdraw` doesn't have anything like the functionality of PostScript, so there are many limitations. There are many PostScript commands that are either not implemented at all or only work in a limited way. If `eps2jdr` doesn't work on an EPS file, try using `eps2eps` on the EPS file and try on the output of that. However there is still no guarantee that it will work.

If `eps2jdr` can't implement a PostScript command, it will do one of the following:

1. Find the nearest approximation

2. Print a warning message and ignore the command (popping any operands off the stack where necessary)
3. Print an error message, and exit.

If the EPS file contains images (via the `image` or `colorimage` operators), each image will be extracted and saved as a PNG file with name $\langle \textit{basename} \rangle \langle n \rangle .\textit{png}$, where $\langle \textit{basename} \rangle$ is the basename of the output JDR file, unless the `-bitmap` option was used.

Font substitutions may occur, but you can create a PostScript to L^AT_EX font map in Jpgfdraw's configuration directory¹. To do this, use your favourite text editor to create a file called `psfontmap`. Each line must be in the form:

$\langle \textit{PostScript font name} \rangle = \langle \textit{Family declaration} \rangle, \langle \textit{Series declaration} \rangle, \langle \textit{Shape declaration} \rangle$

The PostScript font name may be a regular express. For example:

`.*obliquebold=,\bfseries,\slshape`