

jdrutils

Version 1.4

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Abstract

FlowframTk comes with a number of command line applications for converting JDR and AJR files to other formats. This document describes those applications.

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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 [options] jdr file png file
```

Options:

- crop Crop image to bounding box (default)
- nocrop Image size the same as canvas.
- alpha Add alpha channel. The background is transparent.
- noalpha No alpha channel (default). The background is white.

Purpose:

Converts a JDR file to a PNG file.

Limitations:

The output file will use always RGB colour space. Any CMYK specifications will be converted to RGB.

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 colour.

6 **jdr2tex**

Syntax:

```
jdr2tex jdr file tex file
```

Purpose:

Converts a JDR file to a \LaTeX file containing a `pgfpicture` environment.

Limitations:

Gradient paint is not available for line or text colour.

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 LaTeX 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:

FlowframTk 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 *<basename>**<n>*.png, where *<basename>* 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 FlowframTk's configuration directory¹. To do this, use your favourite text editor to create a file called `psfontmap`. Each line must be in the form:

```
<PostScript font name>=<Family declaration>,<Series declaration>,<Shape declaration>
```

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

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