

NAME

`dvipdfmx`, `xdvipdfmx`, `dvipdfm` – produce PDF files directly from DVI files

SYNOPSIS

dvipdfmx or **dvipdfm** [*options*] *file*[.dvi]

DESCRIPTION

The program **dvipdfmx** generates a PDF file from a DVI file. DVI files are the output produced by TeX. **groff** can also generate DVI files using **groddvi**(-Tdvi).

In TeX Live, **dvipdfm** is another incarnation of **dvipdfmx** rather than a separate program. Compatibility is attempted as best as possible.

In addition, **xdvipdfmx** is yet another incarnation. It is used as the back end for **xetex**(1) and is not intended to be invoked directly.

dvipdfmx recognizes several commonly used **\special** commands, which are extensions to the DVI format. Specifically, it understands color specials, papersize specials, tpic specials (which allow it to be used with **pic**), hypertext specials, and some PostScript specials. These extensions allow documents to contain color, figures, and hyperlinks. The program tries to mimic the behavior of **dvips** where possible, so that many macro packages produced for use with **dvips** will also work with **dvipdfmx**. In addition, **Dvipdfmx** understands its own specific **\special** commands to allow access to PDF features such as annotations and bookmarks.

Unrecognized specials will generate warning messages. Packages that may need a **dvipdfm** or **dvipdfmx** driver option include *geometry*, *hyperref*, *bookmark*, *graphicx*, and *xcolor*.

For issues related to bounding boxes (and hence image sizes), see **extractbb**(1).

OPTIONS

Unlike with many other programs, argument values must be separated from option names by a space, not an = sign; option names cannot be abbreviated; and `-` and `--` cannot be used interchangeably.

-c Ignore (or accept) color **\specials**. By default, color **\specials** are interpreted normally (changeable in the configuration file). The **-c** option may be used to produce a black and white document from a document containing color TeX **\special** commands.

--dvipdfm

Enable **dvipdfm** emulation mode. This is the default if the executable name is ‘dvipdfm’.

-d number

Specify the number of decimal digits in the PDF output; must be between 0 and 5, default is 2.

-e Ignored, for (semi-)compatibility with **dvipdfm**.

-f map_file

Read the font map file given by *map_file*. The default map file in TeX Live is *pdfTeX.map*, as defined in the configuration file. **--help** Show a help message and exit successfully.

-l Select landscape mode. In other words, exchange the *x* and *y* dimensions of the paper.

- m mag**
Magnify the input document by *mag*.
- o filename**
Set the PDF output file name; use '-' for stdout. By default, the name of the output file is derived from the input, that is, *file.pdf*.
- p paper**
Select the papersize by name (e.g., **letter**, **legal**, **ledger**, **tabloid**, **a3**, **a4**, or **a5**)
- q** Quiet mode.
- r size**
Set resolution of bitmapped fonts to **size** dots per inch. Bitmapped fonts are generated by the Kpathsea library, which uses Metafont. Bitmapped fonts are included as Type 3 fonts in the PDF output file. Default is 600.
- s page_specifications**
Select the pages of the DVI file to be processed; default is '-', meaning all pages. The *page_specifications* consists of a comma separated list of *page_ranges*:

$$\text{page_specifications} := \text{page_specification}[, \text{page_specifications}]$$
 where

$$\text{page_specification} := \text{single_page} | \text{page_range}$$

$$\text{page_range} := [\text{first_page}] - [\text{last_page}]$$
 An empty *first_page* is treated as the first page of the DVI file, and an empty *last_page* is treated as the last page of the DVI file.

 Examples:
 - s 1,3,5**
includes pages 1, 3, and 5;
 - s -** includes all pages;
 - s -, -**
includes two copies of all pages in the DVI file; and
 - s 1-10**
includes the first ten pages of the DVI file.
- t** Search for thumbnail images of each page in the directory named by the **TMPDIR** environment variable. The thumbnail images must be named in a specific format: the same base name as the DVI file and the page number as the extension to the file name. **dvipdfmx** does not generate such thumbnails itself, but it is distributed with a wrapper program named **dvipdft** that does so.
- version**
Show a help message and exit successfully.
- v** Increase verbosity. Results of the **-v** option are cumulative (e.g., **-vv** increases the verbosity by two increments). Maximum verbosity is four.
- kpathsea-debug number**
Have Kpathsea output debugging information; '-1' for everything (voluminous).

-x x_offset

Set the left margin to *x_offset*. The default left margin is **1.0in**. The dimension may be specified in any units understood by TeX (e.g., **bp**, **pt**, **in**, **cm**).

-y y_offset

Set the top margin to *y_offset*. The default top margin is **1.0in**. The dimension may be specified in any units understood by TeX (e.g., **bpt**, **pt**, **in**, **cm**).

-z number

Set the compression level to *compression_level*. Compression levels range from 0 (no compression) to 9 (maximum compression) and correspond to the values understood by zlib; default is 9.

-C number

Miscellaneous option flags; see the --help output for details.

-D template

PostScript to PDF conversion command line template; the default is taken from the configuration file, which also gives all the details and mentions several possibilities.

-E Always try to embed fonts, ignoring licensing flags, etc.

-I number

Image cache life in hours; default is -2, meaning to not cache images at all. A value of -1 means to erase all old images and also new images; 0 means to erase all old images but leave new images.

-K number

Encryption key length; default 40.

-M Process MetaPost PostScript output.

-O number

Set maximum depth of open bookmark items; default 0.

-P number

Set permission flags for PDF encryption; default 0x003C.

-S Enable PDF encryption.

-V number

Set PDF minor version; default 5 (from the configuration file).

IMAGE BOUNDING BOXES

When including images with **dvipdfmx**, their bounding boxes should be generated by running **extractbb**. The result will be in an **.xbb** file; the xbb information is the same as for the PDF format.

ENVIRONMENT

dvipdfmx uses the **kpathsea** library for locating the files that it opens. Hence, the environment variables documented in the *Kpathsea library* documentation influence **dvipdfmx**. It also uses the value of the environment variable **TMPDIR** as the directory to search for thumbnail images of each page.

FILES

The precise location of the following files is determined by the *Kpathsea library* configuration. The location may be determined by using **kpsewhich**, e.g.,

kpsewhich --progname=dvipdfmx --format='other text files' dvipdfmx.cfg

dvipdfmx.cfg

Default configuration file

pdfTeX.map

The default font map file (this may be changed in the config file).

**.tfm* TeX font metrics

**.vf* TeX virtual font files

**.pfb* PostScript Type 1 font files

texmf.cnf

The Kpathsea library configuration file. The location of this file may be found by typing

kpsewhich texmf.cnf

SEE ALSO

dvipdft(1), **extractbb(1)**, **tex(1)**, **dvips(1)**, **groff(1)**, **grodvi(1)**, **pic(1)**, and the *Kpathsea library* Info documentation (<http://tug.org/kpathsea>).

AUTHOR

Primarily Mark A. Wicks; dvipdfmx extensions primarily by Jin-Hwan Cho, Shunsaku Hirata, and Matthias Franz. For the version in TeX Live, all bugs and other reports should go to the **dvipdfmx** maintainers at `tex-k (at) tug.org`. This man page edited for TeX Live by Bob Tennent and others.