

A2PS

**NAME**

a2ps – format files for printing on a PostScript printer

**SYNOPSIS****a2ps** [*OPTION*]... [*FILE*]...**DESCRIPTION**

Convert *FILE*(s) or standard input to PostScript. By default, the output is sent to the default printer. An output file may be specified with **-o**.

Mandatory arguments to long options are mandatory for short options too. Long options marked with \* require a yes/no argument, corresponding short options stand for 'yes'.

**Tasks:****--version**

display version

**--help** display this help**--guess**

report guessed types of FILES

**--which**

report the full path of library files named FILES

**--glob** report the full path of library files matching FILES**--list=defaults**

display default settings and parameters

**--list=TOPIC**

detailed list on TOPIC (delegations, encodings, features, variables, media, ppd, printers, prologues, style-sheets, user-options)

After having performed the task, exit successfully. Detailed lists may provide additional help on specific features.

**Global:****-q, --quiet, --silent**

be really quiet

**-v, --verbose[=LEVEL]**

set verbosity on, or to LEVEL

**=, --user-option=OPTION**

use the user defined shortcut OPTION

**--debug**

enable debugging features

**-D, --define=KEY[:VALUE]**

unset variable KEY or set to VALUE

**Sheets:****-M, --medium=NAME**

use output medium NAME

**-r, --landscape**

print in landscape mode

**-R, --portrait**

print in portrait mode

**--columns=NUM**

number of columns per sheet

**--rows=NUM**

number of rows per sheet

- major=*DIRECTION***  
first fill (*DIRECTION*=) rows, or columns
- 1, -2, ..., -9**  
predefined font sizes and layouts for 1.. 9 virtuals
- A, --file-align=*MODE***  
align separate files according to *MODE* (fill, rank page, sheet, or a number)
- j, --borders\***  
print borders around columns
- margin[=*NUM*]**  
define an interior margin of size *NUM*

The options **-1.. -9** affect several primitive parameters to set up predefined layouts with 80 columns. Therefore the order matters: **'-R -f40 -2'** is equivalent to **'-2'**. To modify the layout, use **'-2Rf40'**, or compose primitive options (**'--columns'**, **'--font-size'** etc.).

#### Virtual pages:

- line-numbers=*NUM***  
precede each *NUM* lines with its line number
- C** alias for **--line-numbers=5**
- f, --font-size=*SIZE***  
use font *SIZE* (float) for the body text
- L, --lines-per-page=*NUM***  
scale the font to print *NUM* lines per virtual
- l, --chars-per-line=*NUM***  
scale the font to print *NUM* columns per virtual
- m, --catman**  
process *FILE* as a man page (same as **-L66**)
- T, --tabsize=*NUM***  
set tabulator size to *NUM*
- non-printable-format=*FMT*** specify how non-printable chars are printed

#### Headings:

- B, --no-header**  
no page headers at all
- b, --header[=*TEXT*]**  
set page header
- u, --underlay[=*TEXT*]**  
print *TEXT* under every page
- center-title[=*TEXT*]**  
set page title to *TITLE*
- left-title[=*TEXT*]**  
set left and right page title to *TEXT*
- right-title[=*TEXT*]**
- left-footer[=*TEXT*]**  
set sheet footers to *TEXT*
- footer[=*TEXT*]**
- right-footer[=*TEXT*]**

The *TEXT*s may use special escapes.

#### Input:

- a, --pages[=*RANGE*]**  
select the pages to print

- c, --truncate-lines\***  
cut long lines
- i, --interpret\***  
interpret tab, bs and ff chars
- end-of-line=TYPE**  
specify the eol char (TYPE: r, n, nr, rn, any)
- X, --encoding=NAME**  
use input encoding NAME
- t, --title=NAME**  
set the name of the job
- stdin=NAME**  
set the name of the input file stdin
- print-anyway\***  
force binary printing
- Z, --delegate\***  
delegate files to another application
- toc[=TEXT]**  
generate a table of content

When delegations are enabled, a2ps may use other applications to handle the processing of files that should not be printed as raw information, e.g., HTML PostScript, PDF etc.

#### Pretty-printing:

- E, --pretty-print[=LANG]**  
enable pretty-printing (set style to LANG)
- highlight-level=LEVEL**  
set pretty printing highlight LEVEL LEVEL can be none, normal or heavy
- g** alias for **--highlight-level=heavy**
- strip-level=NUM**  
level of comments stripping

#### Output:

- o, --output=FILE**  
leave output to file FILE. If FILE is '-', leave output to stdout.
- version-control=WORD**  
override the usual version control
- suffix=SUFFIX**  
override the usual backup suffix
- P, --printer=NAME**  
send output to printer NAME
- d** send output to the default printer (this is the default behavior)

#### PostScript:

- prologue=FILE**  
include FILE.pro as PostScript prologue
- ppd[=KEY]**  
automatic PPD selection or set to KEY
- n, --copies=NUM**  
print NUM copies of each page
- s, --sides=MODE**  
set the duplex MODE ('1' or 'simplex', '2' or 'duplex', 'tumble')

- S, --setpagedevice=K[:V]**  
pass a page device definition to output
- statusdict=K[:[:V]**  
pass a statusdict definition to the output
- k, --page-prefeed**  
enable page prefeed
- K, --no-page-prefeed**  
disable page prefeed

By default a2ps is tuned to do what you want to, so trust it. To pretty print the content of the 'src' directory and a table of content, and send the result to the printer 'lw',

```
$ a2ps -P lw --toc src/*
```

To process the files 'sample.ps' and 'sample.html' and display the result,

```
$ a2ps -P display sample.ps sample.html
```

To process a mailbox in 4 up,

```
$ a2ps --mail -4 mailbox
```

To print as a booklet on the default printer, which is Duplex capable,

```
$ a2ps --book paper.dvi.gz -d
```

News, updates and documentation: visit <http://www.gnu.org/software/a2ps/>.

## AUTHOR

Written by Akim Demaille, Miguel Santana.

## REPORTING BUGS

Report bugs to <bug-a2ps@gnu.org>.

## COPYRIGHT

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## SEE ALSO

**a2ps(1)**, **card(1)**, **fixps(1)**, **pdiff(1)**, **psset(1)**, **texi2dvi4a2ps(1)**.

The full documentation for **a2ps** is maintained as a Texinfo manual. If the **info** and **a2ps** programs are properly installed at your site, the command

**info a2ps**

should give you access to the complete manual.

## CARD

**NAME**

`card` – print reference card of program options

**SYNOPSIS**

`card` [*OPTION*]... *PROGRAM*...

**DESCRIPTION**

Print a reference card of the PROGRAMs thanks to their inline help.

**OPTIONS**

**-h, --help**

display this help and exit

**-v, --version**

display version information and exit

**-o, --output=FILE**

save the output in FILE

**-l, --language=LL**

print the help in the language LL (default: English)

**--command=CMD**

perform pretty-printing on the output of CMD (e.g. **--command='netscape -help'**)

Options for `a2ps` are given after '--', for instance

```
$ card -lfr a2ps -- -Pdisplay -4
```

News, updates and documentation: <http://www.inf.enst.fr/~demaille/a2ps/>

**AUTHOR**

Written by Akim Demaille.

**REPORTING BUGS**

Report bugs to <bug-a2ps@gnu.org>.

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**SEE ALSO**

**a2ps(1)**, **card(1)**, **fixps(1)**, **pdiff(1)**, **psset(1)**, **texi2dvi4a2ps(1)**.

The full documentation for **card** is maintained as a Texinfo manual. If the **info** and **card** programs are properly installed at your site, the command

**info card**

should give you access to the complete manual.

FIXPS

## NAME

fixps – sanitize PostScript files

## SYNOPSIS

**fixps** [*OPTIONS*] *FILE*

## DESCRIPTION

Try to fix common PostScript problems that break postprocessing.

## OPTIONS

- h, --help**  
display this help and exit
- v, --version**  
display version information and exit
- q, --quiet**  
don't print informational messages
- o, --output=FILE**  
save result in FILE. If FILE is '-', send to stdout
- f, --force**  
force full rewrite by ghostscript
- n, --no-fix**  
don't fix the FILE, but still honor '-o'
- c, --check, --dry-run**  
don't perform any action

### Fixes:

- Remove junk before and after PostScript content
- Use only Unix end of lines (\n)
- Remove empty lines
- Fix Apple prologue (fixmacps)
- Fix FrameMaker prologue (fixfmps)
- Fix CorelDraw prologue (fixnt)
- Fix Windows NT 3.5/4.0 prologue (fixnt)
- Fix Windows 95 prologue
- Ensure there is a '%BeginSetup/%EndSetup' section
- Removes Canvas' extraneous '%EndDocument:' comments
- Split too long lines

If the FILE seems really in a bad state, ghostscript may be used to perform a full rewrite. The output might then be significantly bigger, but much safer.

## AUTHOR

Written by Akim Demaille.

## REPORTING BUGS

Report bugs to <bug-a2ps@gnu.org>

## COPYRIGHT

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## SEE ALSO

**a2ps(1)**, **card(1)**, **fixps(1)**, **pdiff(1)**, **psset(1)**, **texi2dvi4a2ps(1)**.

The full documentation for **fixps** is maintained as a Texinfo manual. If the **info** and **fixps** programs are properly installed at your site, the command

**info fixps**

should give you access to the complete manual.

OGONKIFY

**NAME**

ogonkify – international support for PostScript

**SYNOPSIS**

**ogonkify** [**-p** *procset*] [**-e** *encoding*] [**-r** *Old=New*] [**-a**] [**-c**] [**-h**] [**-t**] [**-A**] [**-C**] [**-H**] [**-T**] [**-AT**] [**-CT**] [**-ATH**] [**-CTH**] [**-E**] [**-N**] [**-M**] [**-mp**] [**-SO**] [**-AX**] [**-F**] [**-RS**] [**--**] *file* ...

**DESCRIPTION**

**ogonkify** does various munging of PostScript files related to printing in different languages. Its main use is to filter the output of Netscape, Mosaic and other programs in order to print in languages that don't use the standard Western-European encoding (ISO 8859-1).

**SUMMARY USAGE**

Installation instructions are provided in the file `INSTALL`. Assuming the installation has been correctly completed, save the PostScript output of Netscape or Mosaic to a file, say **output.ps**. Then print it using

```
% ogonkify -AT -N output.ps | lpr
```

in the case of Netscape, or

```
% ogonkify -AT -M output.ps | lpr
```

in the case of Mosaic.

You may want to change the **-AT** option to **-CT** in order to use a high quality Courier font from IBM (at the price of slower printing).

An alternative way to print from Netscape is to set the printing command in the printing dialog box to:

```
ogonkify -AT -N | lpr
```

For more details, see the `USAGE` section below.

**OPTIONS**

- p** Includes the specified procset in the output file.
- e** Set the encoding of the output. Defaults to **L2** (ISO 8859-2, a.k.a. ISO Latin-2). Other possible values are **L1** (ISO 8859-1, a.k.a. ISO Latin-1), **L3** (ISO 8859-3, a.k.a. ISO Latin-3), **L4** (ISO 8859-4, a.k.a. ISO Latin-4), **L5** (ISO 8859-9, a.k.a. ISO Latin-5), **L6** (ISO 8859-10, a.k.a. ISO Latin-6), **L7** (ISO 8859-13, a.k.a. ISO Latin-7), **L9** (ISO 8859-15, a.k.a. ISO Latin-9), **CP1250** (Microsoft Code Page 1250, a.k.a. CeP), **ibmpc** (Original IBM-PC encoding), **mac** (Apple Macintosh encoding) and **hp** (HP Roman Encoding).
- r** Use the font *New* in place of *Old*. Will lead to ugly or unreadable output when the metrics mismatch.
- a** Do the right font remappings for using Courier-Ogonki in place of Courier (the **a** stands for Adobe Courier). This avoids downloading any fonts to the printer.
- c** Do the right font remappings for using IBM Courier in place of Adobe Courier.
- t** Do the right font remappings for using Times-Roman-Ogonki in place of Times-Roman.
- h** Do the right font remappings for using Helvetica-Ogonki in place of Helvetica.

- A** Like **-a** but also downloads the Courier–Ogonki fonts.
- C** Like **-c**, but also downloads the IBM Courier fonts.
- H** Like **-h**, but also downloads the Helvetica–xxx–Ogonki fonts.
- T** Like **-t**, but also downloads the Times–xxx–Ogonki fonts.
- CT** Equivalent to **-C -T**.
- CTH** Equivalent to **-C -T -H**.
- E** Add the **Euro** currency sign to all standard fonts (use with **-e L9**).
- N** Do **Netscape** processing.
- M** Do **Mosaic** processing.
- mp** Do **mp** processing. Will not work with the **-A** option (use **-C** instead).
- SO** Do **StarOffice** processing.
- AX** Do **ApplixWare** processing.
- F** Do **XFig** processing.
- RS** Recode standard fonts. This is likely to work with applications that leave fonts in **Adobe-StandardEncoding**, typically applications that do not even support printing even of characters.
- End options.

## USAGE

Let us assume that you want to print a WWW page encoded in ISO Latin–2. Netscape stubbornly insists on printing it as ISO Latin–1. By using the File->Print command, have Netscape send the output to a file, say `alamakota.ps`.

As **ogonkify** is configured for ISO Latin–2 by default, passing it the PostScript generated by Netscape will correct the encoding of the fonts. It is enough to do:

```
% ogonkify -N <alamakota.ps | lpr
```

However, most printers do not have fonts with the needed characters installed; synthesized fonts will be downloaded and used instead of Courier and Times–Roman with **-AT**, and a very good Courier font from IBM will be used with: **-CT**. The command will therefore typically be:

```
% ogonkify -N -AT <alamakota.ps | lpr
```

or eventually

```
% ogonkify -N -CT <alamakota.ps | lpr
```

Typical usage with other programs is:

```
% ogonkify -M -AT <alamakota.ps | lpr
```

```
% ogonkify -mp -AT <alamakota.ps | lpr
```

```
% ogonkify -SO -AT <alamakota.ps | lpr
% ogonkify -AX -ATH <alamakota.ps | lpr
% ogonkify -XF -ATH <alamakota.ps | lpr
```

## BUGS

Characters with an ‘ogonek’ should be constructed differently (for instance, the ‘ogonek’ used with an ‘a’ should be differently shaped than the one used with an ‘e’.)

It would be better to patch the programs we have the sources to than to post-process the produced PostScript.

The program is written in Perl.

## NOTES

In order to view the output PostScript with Ghostscript, you might need to run **gs** with the flag **-dNO-PLATFONTS**, and **ghostview** with the flag **-arguments -dNOPLATFONTS**.

Netscape, IBM, Adobe, PostScript, StarOffice, ApplixWare and possibly others are registered trademarks.

## THANKS

Much of the composite character data have been provided by Primoz Peterlin, H. Turgut Uyar, Ricardas Cepas, Kristof Petrovay and Jan Prikryl.

Jacek Pliszka provided the support for **StarOffice**. Andrzej Baginski provided the support for **ApplixWare**.

Markku Rossi wrote **genscript** and provided many useful encoding vectors with the distribution.

Throughout writing the Postscript code, I used the **ghostscript** interpreter, by Peter Deutsch.

Larry Wall wrote **perl**, the syntax and semantics of which are a never ending source of puzzlement.

## AUTHOR

Juliusz Chroboczek <jec@dcs.ed.ac.uk>, with help from loads of people.

PDIFF

## NAME

**pdiff** – produce a pretty comparison between files

## SYNOPSIS

**pdiff** *FILE1 FILE2* [-- *A2PS-OPTIONS...*]

## DESCRIPTION

Pretty print the differences between *FILE1* and *FILE2*.

## OPTIONS

**-h, --help**

display this help and exit

**-v, --version**

display version information and exit

**-q, --quiet**

don't print informational messages

**-l, --lines**

search for line differences ('diff')

**-w, --words**

search for word differences ('wdiff')

**-o, --output=FILE**

save the output in *FILE*

Options for *a2ps* are given after '--', for instance

```
$ pdiff COPYING COPYING.LIB -- -Pdisplay
```

News, updates and documentation: <http://www.inf.enst.fr/~demaille/a2ps/>.

## AUTHOR

Written by Akim Demaille.

## REPORTING BUGS

Report bugs to <bug-a2ps@gnu.org>.

## COPYRIGHT

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## SEE ALSO

**a2ps**(1), **card**(1), **fixps**(1), **pdiff**(1), **psset**(1), **texi2dvi4a2ps**(1).

The full documentation for **pdiff** is maintained as a Texinfo manual. If the **info** and **pdiff** programs are properly installed at your site, the command

**info pdiff**

should give you access to the complete manual.

PSMANDUP

## NAME

**psmandup** – print duplex on non duplex printers

## SYNOPSIS

**psmandup** *FILE*

## DESCRIPTION

Tries to produce a version of the PostScript *FILE* to print in manual Duplex.

## OPTIONS

**-h, --help**

display this help and exit

**-v, --version**

display version information and exit

**-q, --quiet**

don't print informational messages

**-o, --output=FILE**

save result in *FILE*. If *FILE* is '-', send to stdout

**-n, --no-fix**

don't call fixps to fix PS problems in *FILE*

**-f, --front**

output only the front pages (recto) on the regular tray

**-b, --back**

output only the back pages (verso) on the manual feed tray

Produced output is meant for PS level 2 printers which don't support Duplex printing, but support Manual Feed. Once the first set of pages is printed (odd pages), manual feed is asked: introduce the odd pages to print the even pages on the other side.

Because there is usually a short time out for manually fed jobs, you should really be next to the printer. If ever the time out expired, use the option **-b** to send only the missing part.

Environment variables FIXPS, PSSELECT and PSSET, if defined, are used to find the tools.

News, updates and documentation: <http://www.inf.enst.fr/~demaille/a2ps/>

## AUTHOR

Written by Akim Demaille.

## REPORTING BUGS

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## SEE ALSO

**a2ps(1)**, **card(1)**, **fixps(1)**, **pdiff(1)**, **psset(1)**, **texi2dvi4a2ps(1)**.

The full documentation for **psmandup** is maintained as a Texinfo manual. If the **info** and **psmandup** programs are properly installed at your site, the command

**info psmandup**

should give you access to the complete manual.

PSSET

## NAME

psset – insert page device request in PostScript files

## SYNOPSIS

**psset** *FILE*

## DESCRIPTION

Produce a version of the PostScript *FILE* with a protected call to the PostScript operator ‘setpagedevice’. Typical use is making *FILE* print duplex, or on the manual tray etc.

## OPTIONS

- h, --help**  
display this help and exit
- v, --version**  
display version information and exit
- q, --quiet**  
don't print informational messages
- o, --output=FILE**  
save result in *FILE*. If *FILE* is '-', send to stdout
- n, --no-fix**  
don't run 'fixps' to fix PS problems in *FILE*
- S, --setpagedevice=KEY[:VALUE]**  
pass a page device definition to output. Multiple values accumulate
- a, --at=PAGE**  
insert the page device definitions at *PAGE*. Default is *PAGE*=0, standing for the Document's Setup section

### Shortcuts:

- m, --manualfeed**  
alias for **-SManualFeed:true**
- s, --simplex**  
alias for **-SDuplex:false**
- d, --duplex**  
alias for **-SDuplex:true -STumble:false** corresponds to Duplex, binding along the long edge
- t, --tumble**  
alias for **-SDuplex:true -STumble:true** corresponds to Duplex, binding along the short edge

Produced output is meant for PS level 2 printers.

News, updates and documentation: visit <http://www.inf.enst.fr/~demaille/a2ps/>

## AUTHOR

Written by Akim Demaille.

## REPORTING BUGS

Report bugs to <bug-a2ps@gnu.org>

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## SEE ALSO

**a2ps(1)**, **card(1)**, **fixps(1)**, **pdiff(1)**, **psset(1)**, **texi2dvi4a2ps(1)**.

The full documentation for **psset** is maintained as a Texinfo manual. If the **info** and **psset** programs are properly installed at your site, the command

**info psset**

should give you access to the complete manual.

TEXI2DVI

## NAME

texi2dvi4a2ps – Compile Texinfo and LaTeX files to DVI or PDF

## SYNOPSIS

**texi2dvi4a2ps** [*OPTION*]... *FILE*...

## DESCRIPTION

Run each Texinfo or LaTeX *FILE* through TeX in turn until all cross-references are resolved, building all indices. The directory containing each *FILE* is searched for included files. The suffix of *FILE* is used to determine its language (LaTeX or Texinfo).

Makeinfo is used to perform Texinfo macro expansion before running TeX when needed.

### Operation modes:

- b, --batch**  
no interaction
- c, --clean**  
remove all auxiliary files
- D, --debug**  
turn on shell debugging (set **-x**)
- h, --help**  
display this help and exit successfully
- o, --output=OFILE**  
leave output in *OFILE* (implies **--clean**); Only one input *FILE* may be specified in this case
- q, --quiet**  
no output unless errors (implies **--batch**)
- s, --silent**  
same as **--quiet**
- v, --version**  
display version information and exit successfully
- V, --verbose**  
report on what is done

### TeX tuning:

- @** use @input instead of \input; for preloaded Texinfo
- e, --expand**  
force macro expansion using makeinfo
- I DIR** search *DIR* for Texinfo files
- l, --language=LANG**  
specify the *LANG* of *FILE* (LaTeX or Texinfo)
- p, --pdf**  
use pdftex or pdflatex for processing
- t, --texinfo=CMD**  
insert *CMD* after @setfilename in copy of input file multiple values accumulate

The values of the BIBTEX, LATEX (or PDFLATEX), MAKEINDEX, MAKEINFO, TEX (or PDFTEX), and TEXINDEX environment variables are used to run those commands, if they are set.

## REPORTING BUGS

Email bug reports to <bug-texinfo@gnu.org>, general questions and discussion to <help-texinfo@gnu.org>. Texinfo home page: <http://www.gnu.org/software/texinfo/>

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**SEE ALSO**

texi2dvi4a2ps is exactly the same script as texi2dvi, part of the package GNU Texinfo. It is used by a2ps when delegating LaTeX and Texinfo files. Instead of checking whether the version of texi2dvi which is installed is recent enough, it is more convenient for the users that a2ps is shipped with the version of texi2dvi it requires. **a2ps(1)**, **card(1)**, **fixps(1)**, **pdiff(1)**, **psset(1)**, **texi2dvi4a2ps(1)**.

The full documentation for **texi2dvi** is maintained as a Texinfo manual. If the **info** and **texi2dvi** programs are properly installed at your site, the command

**info texi2dvi**

should give you access to the complete manual.