NAME

arlatex - archive a number of ancillary LaTeX files into a master .tex file

SYNOPSIS

```
arlatex [--outfile=filename.tex] --document=filename.tex filename ...
arlatex --version
arlatex --help
```

DESCRIPTION

arlatex is an archiving program like **shar**, **tar**, **zip**, etc. Unlike those other archivers, however, **arlatex** is designed specifically for use with LaTeX. **arlatex** takes the name of a master .tex file and a number of ancillary files used by that master file (e.g., .tex, .sty, .cls, and .eps files). From these, **arlatex** outputs a single file that, when it's run through **latex**, both regenerates the ancillary files and compiles the document into a .dvi file.

arlatex has a few advantages over other archiving programs:

- The .tex files produced by **arlatex** are in a plain-text format. They are therefore perfectly portable and trivial to e-mail to colleagues.
- arlatex needs only LaTeX to run. There is no dependence on any external tools.
- There is no explicit extraction step. As the generated document is run through **latex**, it extracts the ancillary files and builds the document in the same step. The user running **latex** may not even notice that additional files are being produced.

arlatex works by writing a number of \begin{filecontents*} ... \end{filecontents*} blocks to the output file, followed by the contents of the master file. (In fact, any LaTeX comments at the beginning of the master file are hoisted to the top of the generated file. This enables the author to draw attention, if so desired, to the fact that ancillary files will be generated.) The filecontents* environment, part of standard LaTeX2e, writes its contents verbatim to a specified file.

OPTIONS

--version

Output the **arlatex** script's version number.

--help

Output brief arlatex usage information.

--document=.tex file

Specify the master document. The output from **arlatex** is this file with all of the other files named on the command line prepended to it. Note that --document is a *mandatory* parameter; **arlatex** will abort with an error message if --document is not specified.

--outfile=.*tex file*

Specify the output file. The output file looks just like the master document, but with a number of filecontents* environments preceding the \documentclass line. If --outfile is not specified, output will be written to the standard output device.

EXAMPLES

Suppose you have a paper called *paper.tex* that loads a custom package with \usepackage{mypackage}. You want to submit the paper to a conference, but you want to be absolutely certain that *mypackage.sty* doesn't get lost as your paper is shuttled from person to person. Here's how **arlatex** can be of use:

```
arlatex --document=paper.tex mypackage.sty --outfile=paper-submit.tex
```

When *paper-submit.tex* is processed with **latex**, it builds just like the original *paper.tex*, except that it additionally creates a *mypackage.sty* in the current directory:

```
This is TeX, Version 3.14159 (Web2C 7.3.1)
(paper-submit.tex
LaTeX2e <1999/12/01> patch level 1
Babel <v3.6Z> and hyphenation patterns for american, french, german, ngerman, italian, nohyphenation, loaded.

LaTeX Warning: Writing file `./mypackage.sty'.

(/usr/share/texmf/tex/latex/base/article.cls
Document Class: article 1999/09/10 v1.4a Standard LaTeX document class (/usr/share/texmf/tex/latex/base/size12.clo)) (mypackage.sty)
.
.
```

As another example, here's how you could bundle together all of the files needed to build a large document for longevity:

```
arlatex --document=thesis.tex abstract.tex introduction.tex
background.tex approach.tex experiments.tex relatedwork.tex
conclusions.tex before.eps after.eps fast.eps slow.eps
podunkUthesis.cls --outfile=thesis-all.tex
```

As the number of files to archive together increases it becomes more cumbersome to run **arlatex** manually. Fortunately, using **arlatex** with **bundledoc** is straightforward. **bundledoc** finds all of the files needed to build the document, and **arlatex** combines them into a single file. The following are examples of the bundle: line you might use in a **bundledoc** configuration file:

Unix:

See the **bundledoc** documentation for more information.

CAVEATS

arlatex makes use of LaTeX2e's filecontents* environment. filecontents* refuses to overwrite an existing file. However, it also refuses to create a file that exists *anywhere* that LaTeX can find it. That is, if the user running **latex** on an **arlatex**—generated .tex file already has a /usr/share/texmf/tex/latex/whatever/whatever.sty file then filecontents* will refuse to create a whatever.sty file, even in a different directory.

SEE ALSO

```
bundledoc(1), latex(1), shar(1), tar(1), zip(1)
```

v1.03 2014-08-24 2

AUTHOR

Scott Pakin, scott+bdoc@pakin.org