

## Opener

docAPP.tiff ⇝ docPS\_1.tiff ⇝

docShar.tiff ⇝ docTar\_2.tiff ⇝ docZ\_1.tiff ⇝ ...

- o **Opener** unpacks various common types of archived files; handy when perusing **ftp** servers. Currently handles:
  - \*.Z, tar, shar, lzh      unix compressed files
  - \*.gz                      GNU *gzip*-compressed files
  - \*.uu                      *uuencoded* file
  - \*.hqx, bin, sit          macintosh archives
  - \*.arc, zip, zoo          msdos *arc* archives
  - \*.PS                      (**Preview** doesn't catch cap .PS)
  - \*.arj                      msdos *arj* archives  
(extraction only)
  - \*.compressed            NeXT compressed files

When you double-click on one of these files in the Workspace, Opener will catch it and unpack it. If the file comes from a Usenet source archive (like *mod.sources*) Opener can additionally unpack and compile that software: e.g., open *comp.sources.unix/.../cpp/part{1,2,3}.Z*, and Opener will extract and attempt to build that code.

- o **Opener** creates `.tar.Z` or other archives:  
drag a collection of directories and files onto Opener's icon. A dialog panel will appear, and you can pick the format to use (`.tar`, `.tar.Z`, `.lzh`, etc), edit the archival command if you like, and edit the underlying commands by pushing the "*Edit archive table*" button in the *Preferences...* panel. In general, if you want to interact a bit to adjust the specific archival command, then drag files onto Opener's icon.
- o **Remote NeXT archives:** to submit a directory to the NeXT archives at *sonata.cc.purdue.edu* and *cs.orst.edu*, put your contribution in a folder, say *x.app*, make sure that a plain text file *x.app/README* exists, and drop *x.app/* onto Opener, creating a *remote* archive. The files *x.app.README* and *x.app.tar.Z* will be created, *ftp*-ed to the archives, and an e-mail note will be composed and addressed to the archivists to announce it. The shell scripts *Submit* and *submit* do this.
- o **Installation:**  
Because Opener includes all its source, simply put *Opener.app* in the appropriate *Apps/* directory. Make any changes in place. You may wish to remove *Opener.app/test\** (archive files used

only for testing), and *Opener.app/utils/* (source for *xlharc*, *booz*, and other archivers). If you want to use other versions of archival commands, you can: put them in *Opener.app/*; or, edit *Opener.app/Opener.table* to make paths explicit; or, put them in a well-known place and make sure that *Opener.app/*, which is typically searched first, does not contain redundant commands.

o **To add new file types:**

The file *Opener.table* lists suffix/command pairs that are used to identify and unpack various kinds of files.

You need to edit this table, and add an icon for the new type:

**add ...**

- a line to *Opener.table*,  
(formerly, new code in *Controller.m:doFile()*)
- a utility in *utils/...*, and in *Makefile.postamble*
- an icon to the TIFF suitcase in *Opener.nib*
- suffixes to *types[]* in *Controller.m:-openRequest*

o **Monitoring:**

We are interested in tracking software flow & learning how quickly and widely software travels. The first time you launch *Opener* a message is sent to a monitor mailbox.

This is a one-time message and is only used for mapping software flux. There is also a "*Suggestion...*" menu item under "*Info ±>*" which lets you send suggestions to the author. Thanks for your help.

o **Summary of changes in version 3.1.2:**

- Revised icons for .bin, .hqx, .sit (correct Apple colors)
- Corrected Joe Reiss' e-mail address
- Added .compressed filetype
- Eliminated use of *unsit* when unpacking .hqx files
- Munged *mcvert* to create only the data fork of a MacBinary needed to open these files on a NeXT (this concerns .hqx files)
- New versions of *zip*, *unzip*, *gzip* and *gunzip*

Please let me know if you find bugs or make changes.

Michael Hawley (March 10, 1994)

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o **Acknowledgements:**

Some unpacking tools were collected from the network.

**arc** v1.2 (5.21) 7-31-88

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**booz** v2.0 7-7-91

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**mcvert** v1.6 4-91

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**zip** v2.0.1 9-93 + **unzip** v5.1 2-94

© Mark Adler, Richard Wales, Jean-Loup Gailly, Kai Uwe  
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**xlharc** v0.03 (beta version)

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**unsit** v1.5c 8-3-89

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**gzip + gunzip v1.2.4 8-18-93**

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**unarj v2.3 1-92**

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Garance Alistair Drosehn (*gad@eclipse.its.rpi.edu*) provided helpful suggestions and code (via Scott Hess and Eric Scott) for safe filename-quoting, and for setting the output directory. About a hundred users have sent in comments and suggestions that have improved the program.

Denise Blakeley (*blake015@mc.duke.edu*) and Subrata Sircar (*Subrata\_Sircar@next.com*) collaborated to make Opener v3.1. They brought Opener up to NeXTSTEP 3.1 compatibility, made it and the included utilities Multi-Architecture Binaries (i.e., fat), and included new unpacking utilities gzip/gunzip and unarj. Joe Reiss (*jreiss@magnus.acs.ohio-state.edu*) contributed all-new color icons.

Denise Blakeley (*blake015@mc.duke.edu*) is the current maintainer of Opener.