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**This document refers to:
PeaZip 3.6 executable implementation**

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PeaZip official site:
<http://www.peazip.org/>

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How to...

This mini-tutorial introduces the most common operations that can be performed through PeaZip, following chapters contains a more detailed explanation of the application and of terms used here.

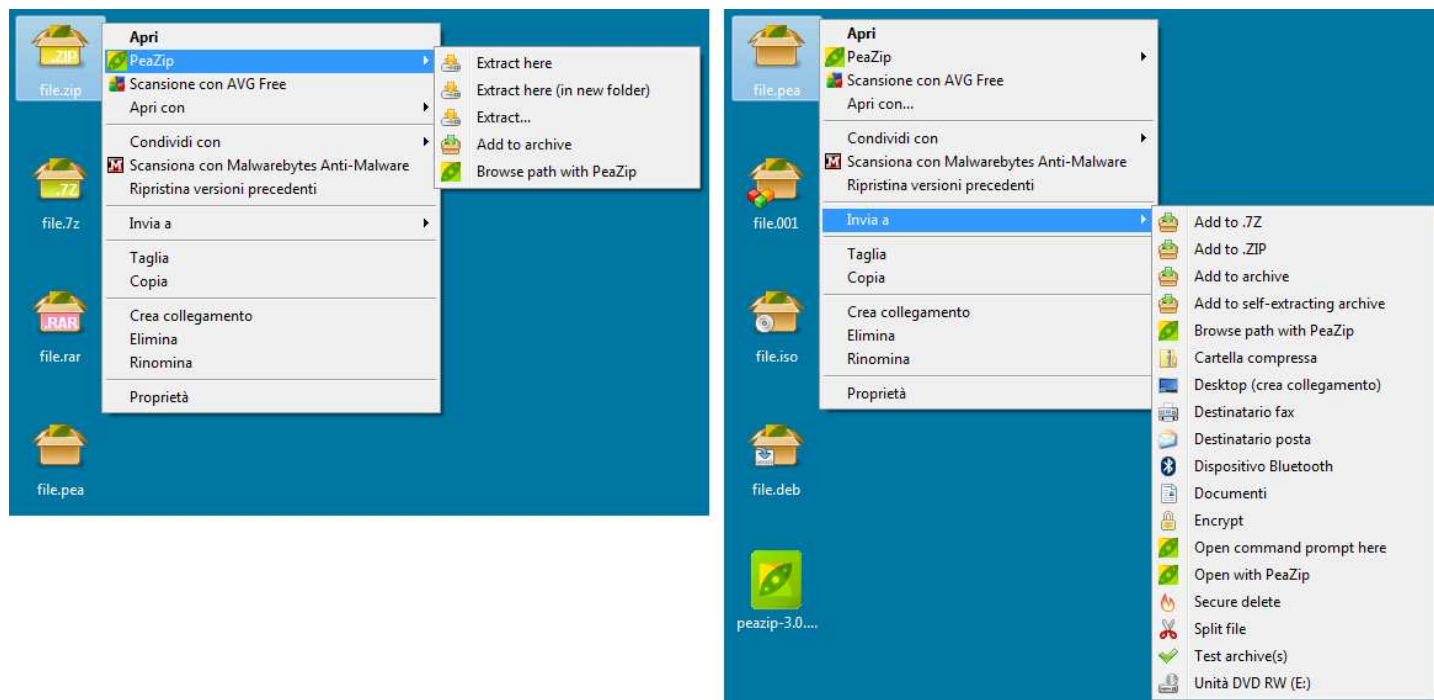


Image 1: high resolution icons, SendTo and context menu integration in Windows 7 - in previous systems menu is not cascaded, Windows 7 supports cascading menus and display icons through registry settings, which is now recommended over COM methods.

System integration can be customized running the installer choosing "Custom installation / Configuration", or in Options > Settings > "Configure file associations, context menu and SendTo menu"

EXTRACT ARCHIVE(S)

- **From the system**
 - rightclick on the archive(s) and in system's context menu click "Extract here" or "Extract here (in new folder)" to extract with no further interaction
 - otherwise use "Extract..." menu entry for having more options: output path, password, extract files to a new directory, chose to skip, rename or overwrite existing files etc.
- **Open an archive in PeaZip**, i.e. with doubleclick, or drag an archive on PeaZip's window or icon
 - click on "Extract" in toolbar or in context menu to extract only selected objects trough the confirmation dialog allowing to set all options (output path, password, naming policy, extract to a new directory etc)
 - drag files and folders to the desired destination, only selected content will be extracted (for more information see chapter about drag and drop in PeaZip)
 - click the quick extraction dropdown button on the right of "Extract" in the toolbar, it allows to directly extract the entire archive to most common destinations (skipping the confirmation dialog) and to set most important options; keyboard shortcuts: Ctrl+E (or F12) extracts the entire archive, asks for output directory; Ctrl+Alt+E extracts archive in its current folder; Ctrl+Shift+E extracts to desktop; Ctrl+Alt+Shift+E extracts to documents; Ctrl+0 extracts to the previous path, Ctrl+1..8 extracts all to 1..8 bookmark's path (if defined)
- **Open PeaZip**, select one or more archives and click "Extract" in toolbar or context menu, or use quick extraction destinations as explained at the previous point.

EXTRACT ONLY SELECTED OBJECTS FROM THE ARCHIVE

- **Open an archive in PeaZip**, i.e. with doubleclick, or drag an archive on PeaZip's window or icon
 - click "Extract" in toolbar: only selected items will be extracted
 - drag files and folders to the desired destination, only selected content will be extracted
 - rightclick and in "Extract" group of the context menu click "Extract selected" (to extract only selected items) or "Extract displayed" (to extract content of current directory or of current search filter)

ENTER A PASSWORD TO BROWSE OR EXTRACT AN ARCHIVE

- Click on the padlock icon to enter a password and optionally a keyfile. The icon is featured both in PeaZip's file browser's status bar and in the archive extraction interface; once the password is set the icon will change color.

CREATE ARCHIVE

- **From the system**
 - rightclick on objects to be archived and click on "Add to archive" in context menu or SendTo menu. It will open the archive creation confirmation dialog, more options are available in "Advanced" tab; click OK to create the archive.
 - alternatively, drag files/folders to PeaZip's window or shortcut; the same archive creation interface will be shown.
- **From PeaZip** select objects to be archived and click on "Add" button; the same archive creation interface will be shown.

ADD FILES/FOLDERS TO UPDATE EXISTING ARCHIVE

- **Open an archive in PeaZip** (i.e. with doubleclick, or drag an archive on PeaZip's window or icon), then drag files and folders to be added in the archive (or click on "Add" button and use application's context menu to add objects to the archive). It will open the archive creation confirmation dialog, click OK to update the existing archive.

CREATE ARCHIVE SPLIT IN SMALLER FILES

- While creating an archive as explained in previous points, click on "Single volume" dropdown menu to select a size for output files (volumes) the archive will be split in. Most common types of archives supports this option.

CREATE ENCRYPTED ARCHIVE

- Click on the padlock icon to enter a password and optionally a keyfile; the icon is featured both in PeaZip's file browser's status bar and in archive creation interface.
To hide names of files and directories contained in the archive check "Encrypt also filenames", please note that it will be applied only if the archive will be created in a format supporting this function, like 7Z and ARC.
Note that in archive creation interface, alongside the padlock icon, there is a warning to visually inform if encryption is set and if the current archive format supports encryption.

CREATE SEPARATE ARCHIVES

- Add objects to be archived (with PeaZip's "Add" button, or from system's context menu or SendTo menu) and before confirming with "Ok" check "Add each object to a separate archive" option

CONVERT ARCHIVES

- **From PeaZip** select archives to be converted and click on "Convert" on toolbar or context menu, non-archive files and folders can be added as well, the difference being in archives being extracted before compression stage. Using the "Convert existing archives" switch in conjunction with "Add each object to a separate archive" (default) it performs a mass conversion of listed archives, without that switch archive conversion is meant to consolidate input data in a single archive, improving compression efficiency because it allows recompression of the original data from its uncompressed form.

DIRECTLY CREATE ARCHIVES IN A SPECIFIED FORMAT AND WITH A CHOSEN COMPRESSION LEVEL

- Using "System integration" procedure in Options > Settings it is possible to enable context menu entries to directly add selected files/folders to a ZIP, 7Z or self extracting archive. For Zip and 7Z formats it is also possible to enable context menu entries to compress to fastest, normal or ultra level, bypassing the default compression level for the selected format.

CONFIGURE THE APPLICATION

- Options > Localization (and in Options > Settings, first tab) allows to set application's **language**.
- Options > Settings allows to edit applications' settings
- Options > Theme allows to change application's icons and appearance
- Options > System integration starts a procedure to configure file associations, context menu and SendTo menu entries (on Windows)
- Organize menu contains entry to customize, enable or disable browser's features, like toolbar, address bar, navigation bar, etc

What is PeaZip

PeaZip is a general purpose file and archive manager application, aiming to provide a cross-platform graphical interface for many Open Source archiving and compression utilities in order to handle most of available archiving formats like 7Z, RAR (extraction), TAR, ZIP and many other ones, see **Supported formats** chapter for more information.

The program features powerful and flexible inclusion/exclusion filters and search tools, provide optional two factor authentication through password and keyfile, and allows to deeply fine tune the job's definitions, exposing through a single, consistent frontend GUI the options of underlying applications.

The list of objects to be archived or extracted can be saved for future use, to speed up backup and restore tasks. Also the resulting command for archive creation and extraction can be saved, to get the full control on job's definition, helping the user in bridging the gap between GUI and console applications to get the best of both worlds. A detailed log is available after each operation.

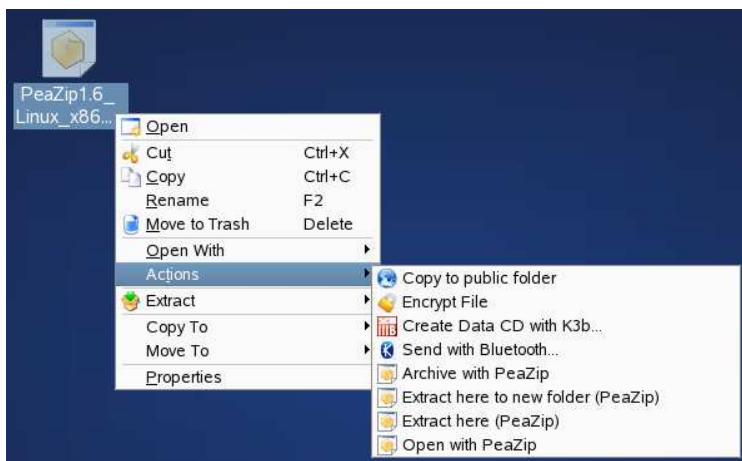
PeaZip also collects a set of handy file management tools: robust file copy, split and join files, fast or secure file deletion, calculation of a wide set of checksums and hashes over selected files, byte-to-byte comparison of two files, web search etc.

PeaZip can be used as file manager, or can be used from **context** and **SendTo menu**.

File associations and menu entries (both for context and SendTo menu) can be changed running the setup program any time it is needed.

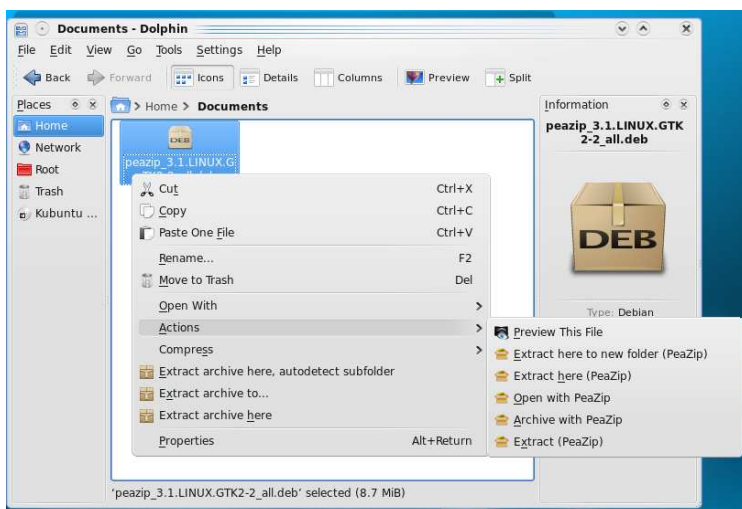
Hint: on Windows systems you can run the installation as administrator with runas command, or "Run as" entry in system's context menu; on Windows UAC will automatically ask for running the process as administrator.

If no system integration is preferred, **PeaZip Portable** is available as standalone application, not needing installation and not modifying the host system, both packages are available on application's website main page: <http://www.peazip.org/>



All the open source backend applications included in base packages contain only open source software released under OSI-approved licenses. Handling formats not supported through open source software (presently, only ACE archives) requires installing separately available plugin, which contains closed source, royalty free binaries. The list of available plugin can be browsed alongside the release map of PeaZip.

Image 2a, 2b: menu integration in Linux KDE3 and KDE4



File manager

The application starts by default with **file manager** interface, pointing to the last visited directory, for navigation in the filesystem and in archives.

*On start-up, PeaZip parses the input parameters trying to understand to what function they should be passed to (i.e. to open an archive for browsing, or adding selected objects to a new archive), see “**Customisation and scripting**” chapter for the startup parameters that can be passed to PeaZip, if you want to use it in scripts or customize system’s integration (registry entries, SendTo menu links etc...)*

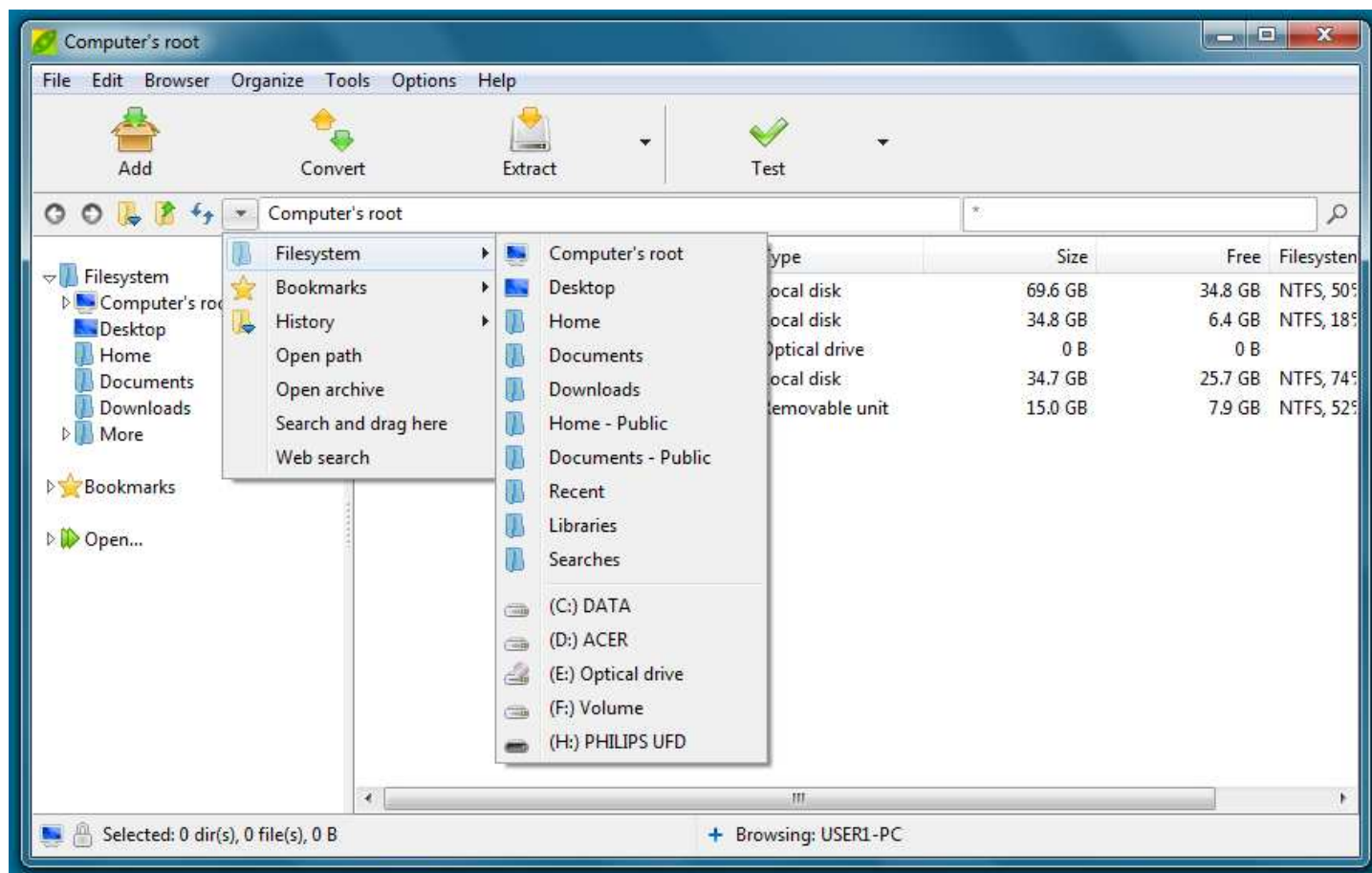


Image 3: browser showing navigation menu.

On the left, in the navigation bar, it is shown the “Open...” group allowing to launch most common operations, like opening archives and folders, system’s search, web search and Run entry to start an executable or website.

The “Applications” subgroup contains favourite applications or websites/webservices that can be defined by the user in Settings, to be launched from navigation bar and for opening selected files/folders from PeaZip’s file browser’s context menu.

Application’s main menu features:

File submenu, contains primary application’s functions.

In the first area, **Create archive** activates the archive creation interface, which allows to add files and folders to the archive’s layout and to save, restore and merge layouts for further use.

In the second area are featured Open path and Open archive entries, invoking standard file and directory selection dialog respectively; Search and drag here which open standard system’s search dialog, to search files on the system and then drag them to PeaZip.

The last entry “Web search” allows searching for the selected filename (or an arbitrary string) on different web based services, as Google and Yahoo search engines, Wikipedia, etc, optionally on multiple websites at once.

This feature can help users in case of any doubt or need of any additional information about the object before archiving it or before extracting it from the archive.

Web search can also help in finding files (i.e. to replace broken/incomplete downloads) on various sources: torrents, upload services, eMule.

Please remember to download only trusted files from trusted sources, and to refer to the respective Author of each content for any information about the copyright status.

In the same area are featured **Filesystem**, **Bookmarks**, and **History** submenus which represent three alternative ways, system based, user based, and chronological based, to quickly access to most used archives or folders in the browser interface.

- **Filesystem** menu is organized following a system-centric functional and hierarchical point of view, featuring links to commonly used paths like home, desktop, documents, mounted devices and more system defined paths. If the system supports it, there are featured also searches' and libraries' folders, respectively introduced in Vista and Seven; files in those folders can be clicked to open the related virtual folder, from which drag objects into PeaZip.
- **Bookmarks** menu reflects user-centric point of view, storing user defined favourite files, folders and search definitions; last entry activates Bookmarks panel allowing to add, edit, sort and remove bookmarks. Items can be added to bookmarks also from Misc > Add to bookmarks entry in file browser's and layout composer's context menus, and from History panel's context menu.
- **History** menu is a chronological point of view, displaying the history of visited paths, archives, and filters applied during the current session; below this first section are listed latest accessed archives (this feature can be disabled for privacy, see "Settings" chapter).

Reduce to tray entry send PeaZip to tray area; right clicking on the tray icon it is possible to resume the program, or access most common program's functions.

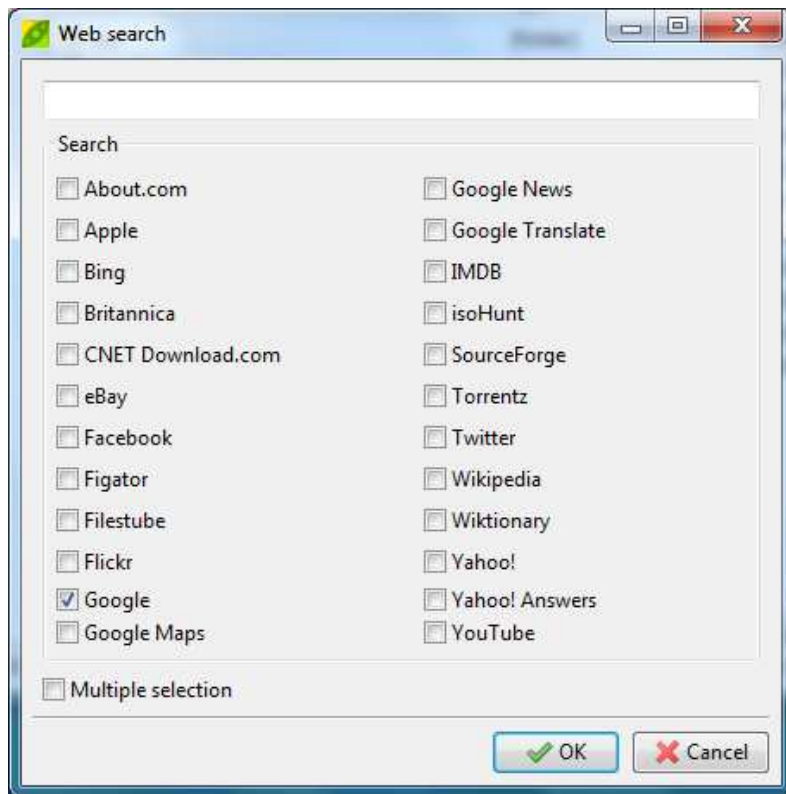


Image 4: web search form, optionally it is possible to search on multiple engines at once

Edit submenu changes the selection of currently displayed files, for date, size, extension, attributes etc... It works either for the file/archive browser and for the archiving and extraction interfaces.

Browser submenu, featured only when file manager is displayed, contains

- jump to archiving and extraction layout interfaces
- search (in PeaZip), F3
- up one level (F4)
- go to archive's or system's root level (Ctrl+U)
- **refresh** (F5) forcing refresh of currently displayed content
- **toggle browser/flat view** (F6), flat view displays all together the objects contained in the current path or in the archive

Organize menu configures the file/archive manager's aspect

- Customize (or hide) toolbar and navigation bar
- Customize browser interface: display details (default) or as list, use row selection or not (default), select columns to display
- Select the view bar to display: none, plain status bar, details, bookmarks, recent archives, history, clipboard

In this menu is also featured **Organize applications** entry, that open a modal form allowing to edit two sets of up to 8 applications (or scripts, or commands, or websites) to be used to open files overriding system's file associations. Applications can be sorted dragging up or down the application's number in the list; rightclick to select, edit or remove applications, and enter descriptions.

Some commonly featured applications are preset and can be recalled with "Reset Applications" button.

Applications are saved to a separate configuration file “custedit.txt” and are not cancelled with application’s reset (as well as “Bookmarks” list).

- “Basic edit” set allows to edit custom application with ease, selecting or typing and application or command to be used to open the file. It is also possible to enter parameters after command or application name; after the “Executable or command” string it will be passed a space and the input file name.

Note: in the first group can be defined also websites/webservices to pass the filename to as parameter; in those cases (detected by PeaZip if the name of the app starts for www. or http:// or https://) only the filename is passed, not the full qualified name (path+filename) as for local applications.

- “Advanced edit” set allows instead a bit more complex syntax, providing a string to be entered before and after the input file name (it’s up to the user decide if spaces between strings and file name are needed).

Note: by default antivirus / antimalware scanners are defined in “Advanced edit” set, because some of them requires a bit complex syntax, but it is only a convention. In the last column of the table it is possible to enter the syntax for the application when no file is passed as parameter, as this case can require a different syntax, or even invoking a different executable

Note: syntax’s examples of preset applications can be used as model to start customizing entries in both sets; clicking an entry in “Advanced edit” set will show a line displaying complete command entered, with the pseudocode “%f” representing the input file name position in the command string.

“Tools” submenu contains:

- **Enter password / Keyfile** (F9) sets the default password (and optionally keyfile, if two factor authentication is desired) to be used in browsing, testing, extraction and archive creation
- **Create keyfile** (Ctrl+F9) allows to sample entropy from the system and from user’s actions to generate a random keyfile; this utility can be also used to generate random passwords to be used in any other application/website/etc
- **Set advanced filters** (F11) sets multiple inclusion and exclusion filters to be used in browsing, testing, extraction and archive creation; filters are applied only to archive formats managed through 7z backend interface, see “Supported file types” chapter
- **System tools** submenu, collecting system’s disk utilities (clean, defrag, manage, remove), system management tools (control panel, computer management, task manager) and display environment variables (both for Linux and Windows).
- **System benchmark** utility to rate the host system in terms of MIPS (millions of integer instructions per second) and Core 2 Duo equivalent speed in MHz

“Options” submenu contains:

- **Run as different user** entry (Windows only), which closes current PeaZip instance and opens a new one with alternative user profile;
- **Localization**, to quickly change applications language;
- **Settings**, to customize application’s behaviour.
- **System integration**, to customize file associations, context menu and sendto menu entries (Windows only).
- **Theming**, to customize application’s aspect.

“Help” submenu points to project’s website and to most up to date documentation available online, as well as offline documentation included in the package: PeaZip help (linked also to F1 functional key), and a short tutorial introducing most common operations.

From this submenu it is also possible to go to PeaZip’s donation page, which allows to donate directly to some suggested worldwide charitable organizations.



Image 5: toolbar, note, on the right of the last button, the dropdown button which shows additional functions

The buttons before the bevel leaves file browser and brings to the archiving interface (Add and Convert) and to extraction interface (Extract)

The dropdown button on the right of Extract button shows quick extraction functions, allowing to extract the entire archive to most commonly used paths and to check and set most common options.

The **toolbar** features:

- ❖ “Add”
 - While browsing the filesystem, the button adds selected files and folders to the current archive layout; before confirming the creation of the archive with “Ok” it is possible to modify the list of objects to be archived (dragging them or using the context menu) as well as other options, output name etc, see “Create archive” chapter for more information.

- While browsing an existing (writeable) archive, the button brings to the archive update interface; it is possible to add files and folders to be added to the archive as in the previous case, dragging them or using context menu.
- ❖ **“Convert”**
 - Convert selected archives in the desired format (non-archive files and folders can be added as well, the difference being in archives being extracted before compression stage). Using with “Add each object to a separate archive” (default) it performs a mass conversion of listed archives, without that switch archive conversion is meant to consolidate input data in a single archive, improving compression efficiency because it allows recompression of the original data from its uncompressed form.
- ❖ **“Extract”**
 - While browsing the filesystem, extracts all selected archives; before conforming the extraction with “Ok” it is possible to modify output path and other options, and to add other archives to be extracted.
 - While browsing an archive, extracts the selected items or all the displayed items if nothing is selected, like WinRar/7-Zip (it is possible to be sure to extract the whole archive using context menu’s Extract all entry, or clicking “Extract all” link in extraction interface); before confirming the extraction with “Ok” it is possible to modify output path and other options.

On the right of “Extract” button, an arrow shows a menu with functions to directly extract all the content of the archive to most common destinations without further interaction with extraction confirmation interface

- In the upper area are listed most common extraction operations: extract all here, extract all to (allowing to select output directory), extract all to desktop, extract all to documents, extract to 1..3° bookmarked paths (if defined), and extract to default extraction path. Only first, second and third bookmarks are shown as quick extraction destination to not clutter the menu, but bookmarks 1..8 are accessible with keyboard shortcuts Ctrl+1..8. Ctrl+0 extracts to the previous output path.
- In the lower area it is possible to set most common extraction options: extract to new folder, naming policy (only for formats supported through 7z frontend), open output path after the job completes, set default extraction path
- ❖ **“Test”**
 - Test selected archives for integrity

On the right of the “Test” button, an arrow shows a menu with other functions replicating some ones featured in context menu, explained in details in context menu section of this chapter:

- List and Info to display information (more detailed in the second case) about the content of selected archives, files or folders.
- File/archive manager functions
 - (while browsing files) Copy to and Move to, and Quick delete and Secure delete
 - (while browsing archives) Delete from archive
- Misc functions: Add to bookmarks, and Explore path and Open command prompt here, to open the path being currently browsed with Explorer (or other default file manager) and command prompt respectively

To quickly jump to desired directory or archive PeaZip offers a **navigation bar** on the left of the browser, showing system’s path and user-defined bookmarks.

From Bookmarks group in navigation bar it is possible to add selected object to bookmarks, and to show/hide the bookmarks panel on the bottom of the browser, to delete, sort or comment bookmarked items.

The application also replicates the **navigation menu** (shown in Image 3) in the address bar (image 5; the menu is shown clicking on the arrow on the left of address field) and in browser’s context menu.

Navigation menus are organized in three sections as in main menu, and can be reached also from application’s context menu and from the leftmost icon in status bar.

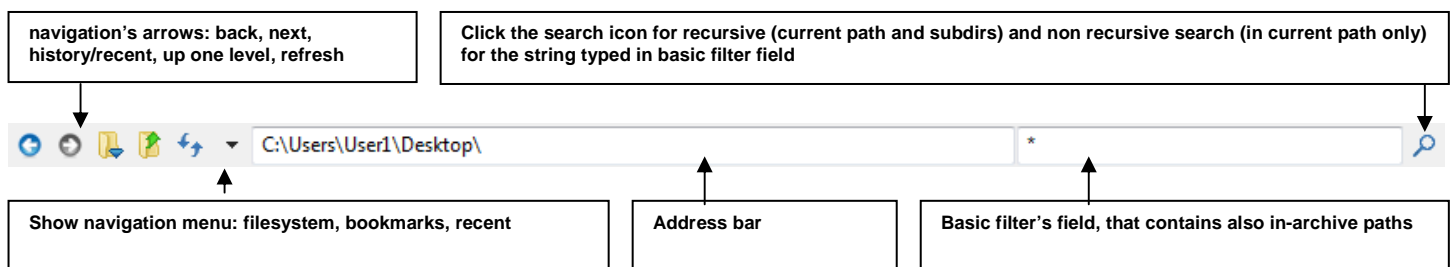


Image 6: address bar (Seven theme); back and next icons are greyed when non available (visiting last or first path in history)

In the browser’s **address bar** are featured back and forward blue arrows to navigate in previously visited path (or any previously applied search filter), an icon to browse history and recent archives, an icon to go to upper level (F4), and the “Refresh” icon (F5) that forces the browser to update; while the browser is updating the refresh icons show an animation, and the refresh icon is greyed until the browser is ready.

The magnifier icon in navigation bar can be used for basic recursive and non recursive **search** functions (F3); * (string) and ? (single character) wildcards are allowed.

This basic search filter is overridden by advanced filters (F11) only for archive types allowing inclusion/exclusion filters (i.e. 7z, rar, tar, zip...).

The **Views** bar is on the bottom of the application; the splitter between Views bar and the file browser can be used to adjust the sizes of the area.

Features Views are:

- **None**, hide views to maximize browser's area
- **Status bar**, displaying synthetic information about the currently selected and displayed content
- **Details**, which gives more detailed information than the status bar
- **Bookmarks** shows bookmarked files, folders and archives, bookmarks can be dragged to arrange them in the desired order, clicking on the leftmost column of the Bookmarks table; otherwise the bookmarks can be arranged alphabetically by bookmark's path or by description clicking on the respective column's header (clicking again will invert the order). It is possible to open bookmarked objects with PeaZip with doubleclick, but from bookmarks' context menu it is also possible to explore object's path with PeaZip or system's file manager, and to open command prompt in item's path.
- **Recent archive** collects recently visited archives
- **History** shows current session's visited paths
- **Clipboard** allows to check objects currently cut and/or copied, and to remove single objects from clipboard if it's need to refine the selection. Clipboard behaviour can be switched between two modes:
 - **Standard clipboard** (default) behaves like usual file browser's clipboard, allowing a single cut or copy operation. Any further selection replaces the previous one, and on paste operation cut objects, have been moved, are removed from clipboard, while copied objects are kept in clipboard.
 - **Advanced clipboard** allows to store multiple (and mixed) cut and copy operations; any selection is added to the previous ones (if objects are duplicate, previously selected are kept), even from different paths and disks, and executed on paste operation, which clears the clipboard content.



Image 7: status bar

On the left of both **Status bar** and **Details** views are featured two icons.

The leftmost icon represents the current path (or archive), and clicking the icon will show the navigation menu.

The padlock icon, the second on the left, as well as "Enter password / keyfile" menu entry (F9) allows to set password and keyfile to be used when operation on archives, browsing, extracting/testing or to create encrypted archives; this information is kept for the current session, and can be different for each separate instance of the application.

Encrypted content, while browsing an archive, is shown with a '*' appended to filename.

If the archive is encrypted and the password is not provided, a popup will ask the user to enter the password/keyfile when extract/test/list operation are attempted.

If the password/keyfile is set, the padlock icon is changed to highlight that.

Keyfile is not mandatory, it can be used if two factor authentication is preferred to password-only authentication; keyfile creation utility can be launched from Tools menu or with Ctrl+F9.

If the directory structure area is encrypted (i.e. .7z archives created with -mhe option), browsing is not possible until the correct password/keyfile is provided: the archive browser will be empty and "no matches" will be displayed in the status bar until it becomes possible to browse the archive, having the user provided the right password.

Please note the same can happen when the archive cannot be browsed for other reasons, i.e. it was corrupted due to bad download or storage media failure. When strong encryption is involved, it may not be possible to determine if the provided password is incorrect or if the file is corrupted, since resulting output will be random-looking in both cases.

The icon on the right side of the status bar allows to switch from browsing mode (showing only the content of the current directory, or the result of current search filter) to flat mode, showing all the content of an archive (while browsing an archive) or of the current directories and all subdirectories (if browsing the filesystem).

The file browser supports **drag and drop from system to application**.

When files and folders are dragged to file manager, they get listed in the archive creation interface (as if they were selected and added with "Add" button), allowing to fine tune the job before confirming, or cancel the job.

In the same way, objects dragged into the browser while browsing an archive will be added to the current archive, if the file type allows modifications.

In example, it will not be possible adding objects to archive types supported only for reading, or to some solid archives.

It is also not possible to add objects to some container types, like i.e. .jar files, MS Office and Open Office documents etc, that are derived by other standard formats (i.e. zip, tar etc) but features specific fields (i.e. digital signatures) not featured in the original standard.

In those cases, while PeaZip can be an useful resource to inspect and extract, it is recommended to use a specific tool for editing those files.

PeaZip checks file extension to prevent improper modifications to those file types, so if it is necessary to bypass this security recommendation it is possible by changing the file extension in one with read+write support (i.e. .zip) to be able to edit the file with PeaZip.

If a single archive file is dragged to the browser PeaZip will show a disambiguation popup to ask if adding the object to the archive or rather opening it.

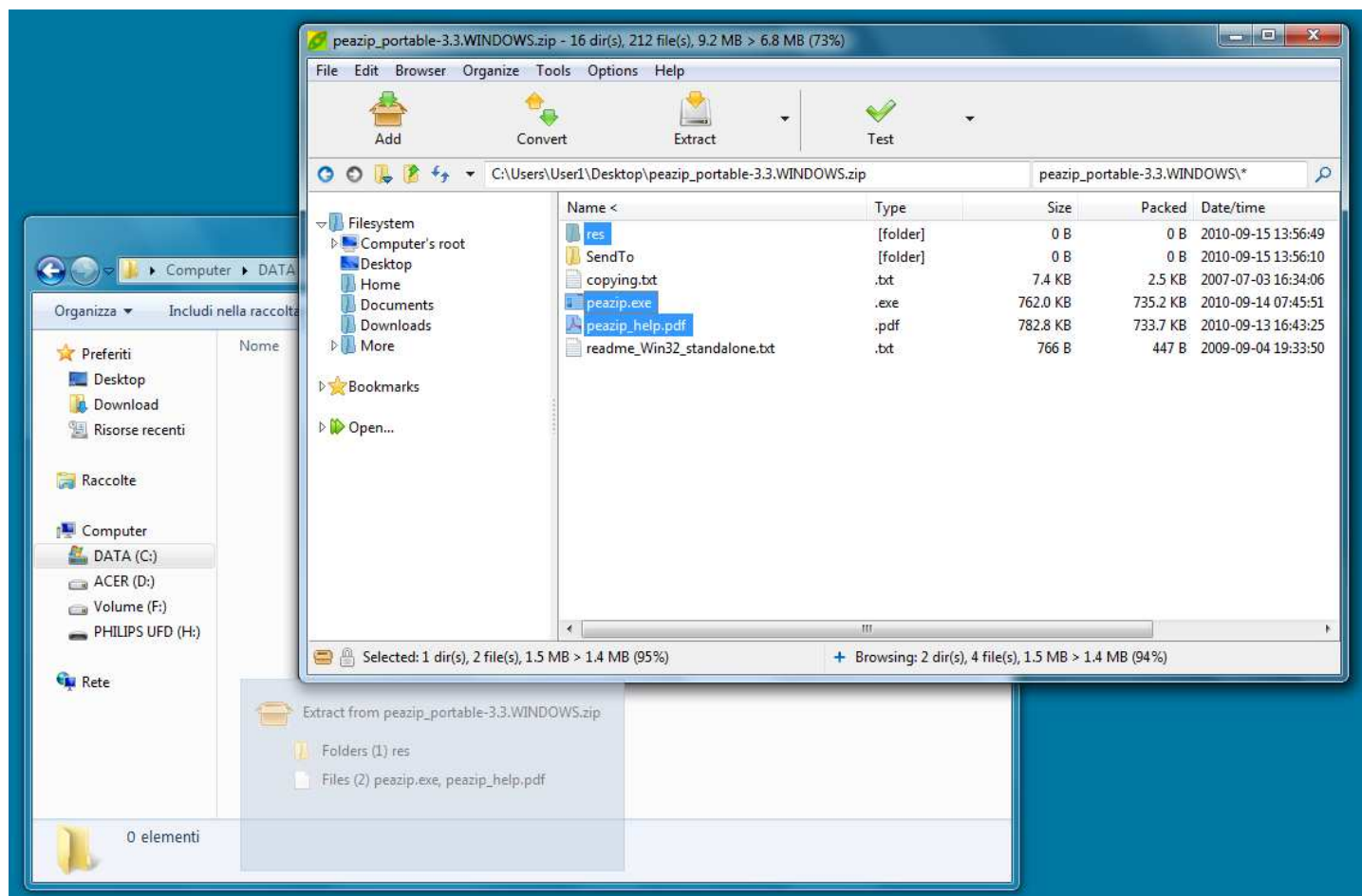


Image 8: drag and drop from application to system (Windows only); files and folders can be dragged from the filesystem or from archives to the desktop or (file)Explorer's windows with Address field enabled (as it is by default on all Windows versions). Drag and drop operations, as well cut/copy selections, are cancelled pressing Esc

Browser interface features also a custom **drag and drop from application to the system** function (in Windows only, Image 7).

Dragging an archived file or folder from PeaZip to the system will extract it to the desired location; if the file is not contained into an archive it is copied to the desired location instead.

The custom drag and drop to system feature doesn't need to copy files being dragged to system's temp folder before, resulting in faster operation when big files are involved, and in better security if temp folder has not the same desired security policies of actual output folder.

This drag and drop implementation will not show default Windows drag and drop cursors, but instead it will show a transparent information area following the mouse and reporting detailed information on content being dragged, and it can drag files to the path of (file)Explorer windows with Address field enabled (as it is by default on all Windows versions), or to the desktop; it will prompt a directory selection dialog if the path is not recognized i.e. content is dropped to an application other than (file)Explorer.

Pressing **control on drag and drop operation** from/to application (while browsing files) pops up a context menu to chose between archive, browse, extract, copy or move files.

In the file browser, clicking on **titles bar** column's header sorts displayed objects by the selected column i.e. name, full (file and path) name, extension, date, size etc; a second click inverts the order.

Archives and folders are highlighted (respectively, green and orange), such objects can be opened for browsing with double-click.

Archives contained into another archive will be opened in a separate instance of PeaZip; please note that by default this is a "preview" operation, extracting data to a temporary folder (by default in the same path, if writeable).

Hint: to open multi volume archives, the first volume (i.e. the one with .001 extension) must be selected as input file.

*Hint: unsupported file types can be forcedly open as archives in PeaZip as **custom format**: this allows to use an arbitrary binary, and to customize the command's syntax, for dealing with them.*

*Otherwise, Open With > **Open as archive** in application's context menu forces trying to open unknown file formats through the 7z/p7zip backend, so it is useful for opening a file thought to be a variant of another format as zip, tar, cab etc, rather than switching to the "Custom" interface.*

The browser can switch between **flat view** mode, displaying all objects contained in the archive, and classic browser mode, using "Toggles browse/flat view" (F6) in main and context menu or the icon in the right part of the status bar. Flat view is used also when performing basic search or applying advanced filters; opening a folder will browse it in classic mode, exiting the flat view mode.

Hint: some applications don't explicitly declare the name of directories contained in the archive; in this way PeaZip cannot list those undeclared objects. Switching to flat mode, or using search or filter feature, will allow seeing all the content of those malformed archives. Extraction, listing and testing of the archive is not affected by this issue.

ACE, ARC, PAQ/LPAQ, PEA and QUAD/BALZ archives can be browsed by PeaZip in flat mode only.

In "Options > Settings > Open archive" it is possible to set PeaZip to start browsing (archives) as classic browser, as flat view or to remember last used mode. Browsing of the filesystem, rather than of archives, is not affected by this setting and will always start in classic mode since listing a path in flat mode could take very long time (i.e. if it is a root folder), and the user will be warned of that when switching to flat mode is requested while browsing the filesystem.

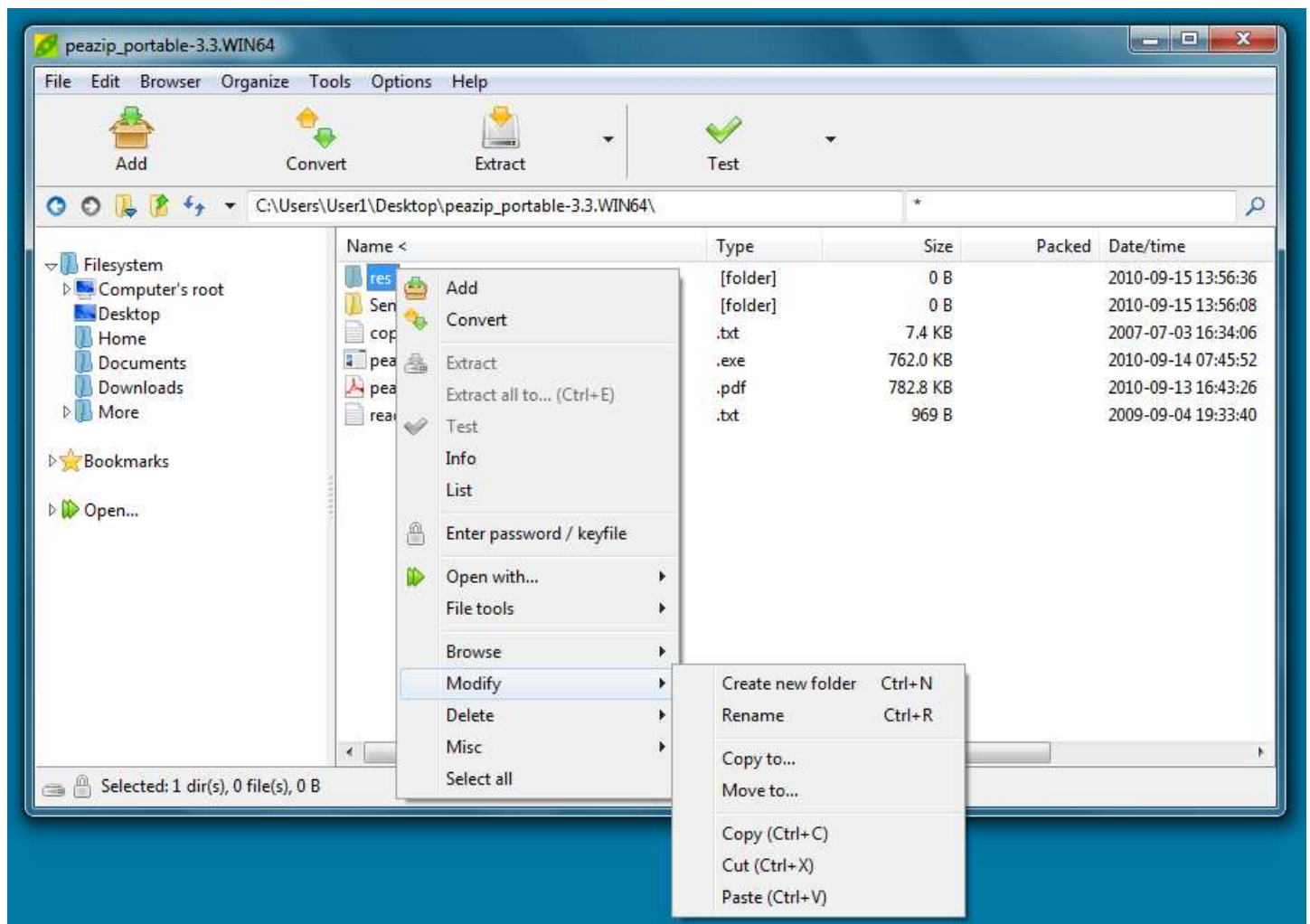


Image 9: browser, showing the context menu.

Extract/test functions are shown disabled when no archive is selected

In "Open with..." submenu it is possible to run selected files and folders (in filesystem as well inside archives) with preferred programs, scan with antivirus/antimalware etc; applications can be set in Options > Settings > Open with... which is reachable also from this menu. Click on the padlock menu entry (or the same icon in the status bar) to set password (and optionally a keyfile) to be used to extract or add files to the archive. Some archive types need password to be set before showing the content of the archive for browsing.

The browser's **context menu**, activated right clicking on the archive browser area, is context sensitive and provides different options while browsing the filesystem and archives of various types (which supports different operations).

In the top area it is featured “**Add**” entry: while browsing the filesystem it will send selected files and folders to the archive layout, while browsing an archive it open a submenu allowing to add files or folders or to open a search dialog from which files/folders can be dragged into the archive itself.

In this case objects will be archived starting from archive’s root, compressed and encrypted accordingly to the archive’s settings.

Note: currently adding objects to archive adds them in archive’s root.

If it is needed to add objects to a subfolder of the archive, a workaround is to place the files in a folder (or nested folders) with that name, and then add that folder to the archive: this will place the file in archive’s subfolder with same name.

I.e. to add thisfile.txt to \thisfolder1\thisfolder2\ subfolder in the archive, create thisfolder1 (where you prefer on the disk), create thisfolder2 into thisfolder1 and move (or copy) thisfile.txt into thisfolder2. Adding or dragging thisfolder1 to the archive will place thisfile.txt in the desired subfolder \thisfolder1\thisfolder2\ of the archive.

Please note that if it is possible for the archive format to store objects with different passwords into the same archive (i.e. in .7z format), you can set the different passwords each time you add objects.

*Note **adding files/folders to encrypted .7z archives**: .7z archive format can store objects encrypted with different passwords in the same archive, so when adding an object to an encrypted 7z archive the object will be encrypted with the password/keyfile currently set (in the form which popup clicking on the padlock icon).*

If the .7z archive is encrypted with “Content and filenames” option, objects can be added only using the same password / keyfile for the whole archive.

By default, if same object exists in the archive (same name and same path in archive’s directory tree), the object will be updated: if the object the user is adding is newer, it will replace the older object; if it’s older, the archive will not be updated.

Please note that for some archive types, notably most solid archives (i.e. .7z created with solid archive switch enabled), or archive types supported only for browsing extraction (i.e. CAB, RAR...), doesn’t allow neither add/update nor delete operations.

In the same area is featured “**Convert**” entry, to convert files/folders or existing archive(s), even of multiple mixed types, in the desired output format.

The second area provides **archive management related features**: extract, extract in new folder, test, list and info (verbose listing of properties of archived objects).

While browsing archives those entries are transformed in submenu allowing applying the action to the whole archive, or only to displayed or selected objects.

It’s recommended to use “displayed” selection to operate on all displayed objects rather than extend the selection to all objects, because it’s faster for the user and because it allows to compose the command in a more elegant way, using current filter definition rather than enumerating all objects.

The third area contains **file-related functions**: “Open with” group allows to choose if opening the selected file or folder with a new instance of PeaZip, or with associated application or with custom application, or with up to 16 user-selected custom applications, websites/webservices or scripts. It also allows to force opening the file as an archive, to allow i.e. to open archives with changed or unknown extension, or to discover archives hidden with concatenation in another type of file using copy /b or similar techniques.

Hint: in Tools > Settings in Applications tab it is possible to define two sets of up to 8 custom application or scripts each (i.e. editors, players, antivirus/antimalware etc) to be used to open files and folders bypassing the default system’s file associations; by default PeaZip tries to find some of most common applications to valorise the entries.

While browsing an archive, “**Open with**” submenu is replaced by “**Extract and open with...**” and “**Preview with...**” submenus; preview functions will extract selected objects to a temporary folder rather than to the output path, and then take the programmed action on the output.

Hint: if the archive is in a read only path, preview functions will transparently switch to user’s temporary folder, while extract here functions will warn the user and ask to select a writeable output path.

Double-clicking an object while browsing the filesystem triggers open with associated application action, while browsing an archive it triggers preview with associated application action.

When performing any of those actions while browsing archives, the selected object will be extracted without replicating the directory structure in the archive.

If replicating the archive structure is desired, uncheck “Always ignore paths for Extract and...” option (see “Settings” chapter). If the object is a directory paths will not be ignored, this condition overrides all other switches.

In this third area, “File tools” submenu contains a set of file management tools described in its own chapter.

Fourth area contains **file managing-related functions**.

Browse submenu replicates the navigation menu structure previously described (filesystem/bookmarks/recent/history), collected in "Browse" submenu.

"Modify" submenu contains: create new folder, rename, copy or move to, cut, copy, paste (using robust file copy/move with system's **robocopy**, or xcopy on pre-Vista systems).

Cut, copy and paste operations can also be performed with keyboard shortcuts of Ctrl+X, Ctrl+C and Ctrl+V respectively. Pressing Ctrl+V while browsing an archive adds objects from clipboard to the archive; in this case objects will not be removed from the filesystem even if Ctrl+X was used, since PeaZip tries to not automatize potentially dangerous operations such file deletion, letting that kind of decision under the full control of the user.

"Delete" submenu contains quick delete, which allows the **fast deletion** of selected objects, without needing to move them to recycle bin, and secure delete (only in the filesystem, not available in archives) which performs a secure file deletion as described in "File tools" chapter.

While browsing archives filesystem related functions (including cut, copy, paste) are disabled and the area shows only simple deletion from archive, if this action is supported for the current archive type.

Last entry in this area, "Misc", contains various entries: add to bookmarks, web search submenu, plus entries to open a system's explorer window or a system's console session in current path.

File manager's keyboard shortcuts

File/archive browser supports following keyboard shortcuts; some functions are format-specific and will be ignored if not supported for the current archive type.

Functional keys:

F1	help
F2	browse desktop / Ctrl+F2 browse user's home / Shift+F2 browse computer's root / Ctrl+Shift+F2 browse archive root, if browsing inside an archive (otherwise browse computer's root)
F3	search (recursivity option is remembered) / Ctrl+F3 start as non recursive (search here) / Shift+F3 recursive
F4	up one level
F5	refresh
F6	toggle browse/flat view
F7	browse most recently visited item (Ctrl, second, Shift, third)
F8	browse first item in bookmarks list (Ctrl, second, Shift, third)
F9	set password/keyfile / Ctrl+F9 create keyfile or random password
F10	menu
F11	set advanced filters
F12	extract all to...

~	!	@	#	\$	%	^	&	*	()	-	+	Backspace
Tab	Q	W	E	R	T	Y	U	I	O	P	{	}	
Caps Lock	A	S	D	F	G	H	J	K	L	:	"	Enter	
Shift	Z	X	C	V	B	N	M	<	>	?	Shift		
Ctrl	Win Key	Alt									Alt	Win Key	Menu
													Ctrl

Extract without confirmation (from browser and extraction interface):

Extract all to... (open selection dialog)	Ctrl+E
Extract all here	Ctrl+Alt+E
Extract all to Desktop	Ctrl+Shift+E
Extract all to Documents	Ctrl+Alt+Shift+E
Extract to previous output path (if set)	Ctrl+0
Extract to path of 1..8' favourite (if set)	Ctrl+1..8
Extract to default path (if set)	Ctrl+9

Extract:

Extract all content	Ctrl+L
Extract displayed content	Ctrl+D
Extract selected content / to new folder	Ctrl+S; use Ctrl+Enter / Shift+Enter to toggle extract to new folder
Test all (when browsing an archive)	Ctrl+T

Note: "extract selected" extracts the entire selected archive(s) if browsing the filesystem, and extracts selected item(s) if browsing an archive.

Extract and open / preview (on selected objects):

Extract and open with PeaZip	Ctrl+Z
Extract and open with default application	Ctrl+O
Extract and open with ...	Ctrl+W
Preview functions	same as previous ones, using Ctrl+Alt+Z/O/W
Preview selected	Enter or doubleclick

File Tools (when browsing the filesystem):

Compare selected object with...	=
Checksum and hash of selected objects	?

Navigation:

Toggle browse mode / flat view mode
Go to computer's or archive's root
Search
Browse most recently visited item
Browse first item in bookmarks list
Open directory/archive
Up one level
Go to object's path
Go back in history
Forward in history
Select all

* or F6
Ctrl+U
F3 / Ctrl+F3 non recursive / Shift+F3 recursive
F7
F8
< or Enter or doubleclick on the folder/archive
> or click on blue back arrow icon or F4
Ctrl+P (useful in flat view and search/filter mode)
Ctrl+B or Backspace
Ctrl+F
Ctrl+A

Views

None, hide "Views" panel
Status bar: basic information, navigation and password icons
Details, replicate and extend status bar's functions
Bookmarks, organize favourite files, folders and search filters
Recent, latest handled archives
History, files, folders and filters visited during current session
Clipboard, objects currently scheduled for copy or move operations

Ctrl+Alt+0
Ctrl+Alt+1
Ctrl+ Alt+2
Ctrl+ Alt+3
Ctrl+ Alt+4
Ctrl+ Alt+5
Ctrl+ Alt+6

Navigation bar

None, hide navigation bar
Navigation: system's resources and bookmarks
Tree: simple system's folders tree

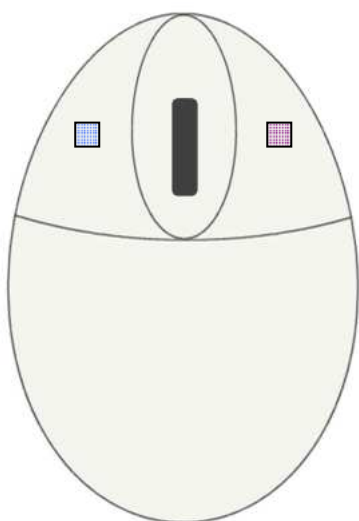
Ctrl+Shift+1
Ctrl+ Shift+2
Ctrl+ Shift+3


Modify:

Quick delete / Delete form archive
Secure delete (files only)
Refresh
Create new folder
Rename
Cut
Copy
Paste
Cancel current selection and clear clipboard

Del
Shift+Del
F5 or icon in first column of titles' bar
Ctrl+N
Ctrl+R
Ctrl+X
Ctrl+C
Ctrl+V
Esc

File manager's mouse controls



 **Doubleclick:** preview selected object with associated application

 **Rightclick:** activate file/archive browser's context menu

Enter password (F9)

Password form allows to set password and, optionally, a keyfile for two factor authentication.

Once a password is entered, it is used by:

- file manager, since some encrypted archives needs password for being browsed
- archive extraction, to open encrypted archives
- archive creation, to create encrypted archive (if the selected format supports encryption); in archive creation interface it is specified if the password is set and if encryption is supported for selected archive format.

“Encrypt also filenames” option is used during creation of 7Z and ARC formats: if checked, the encrypted archive will need password for being browsed, else the content will be visible; in both cases extraction will require the password.

The padlock icon in file browser’s status bar (also shown in archiving and extraction interfaces) will change to visually inform that a password is set.

The password is kept until changed or until PeaZip is closed; multiple instances of PeaZip can keep different passwords.

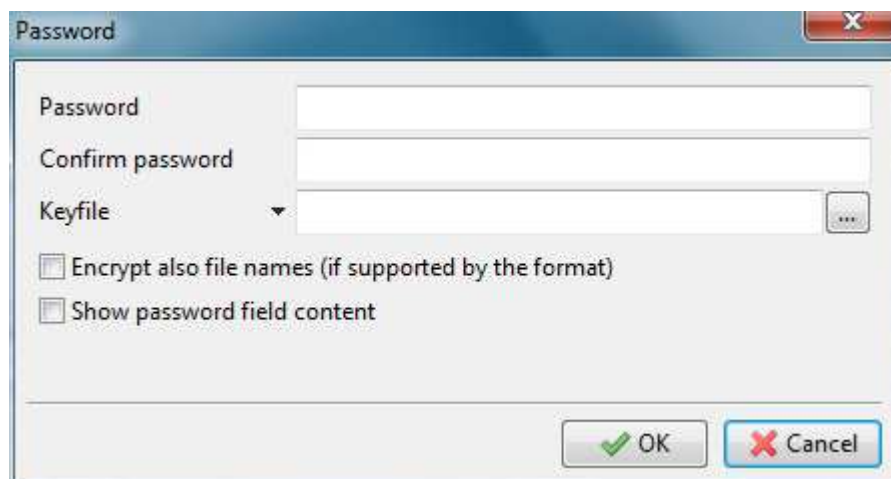


Image 10: enter password and keyfile

Create keyfile (Ctrl+F9)

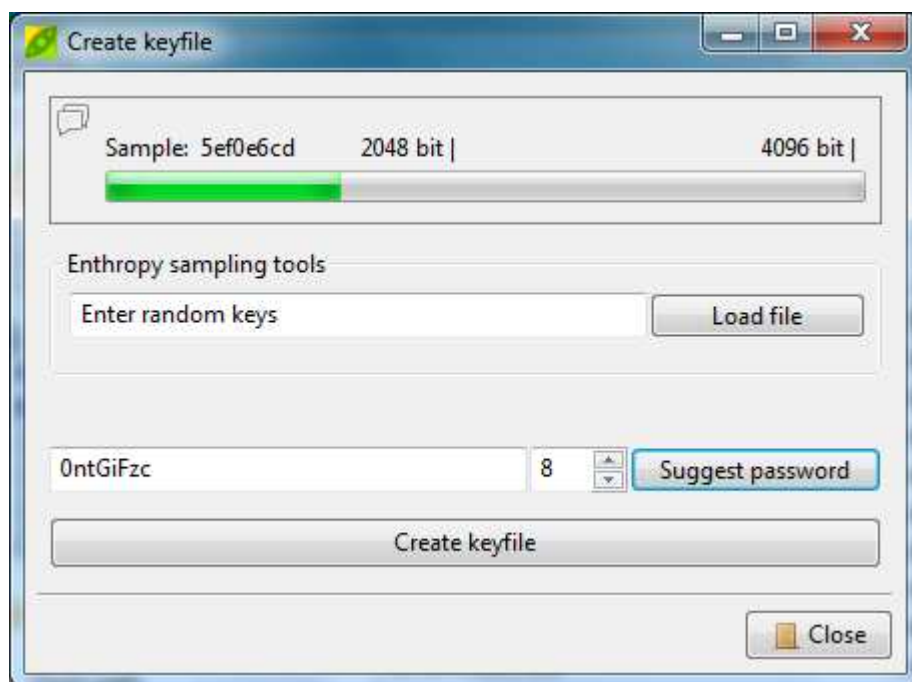


Image 12: keyfile generation utility

For higher security against dictionary and some social engineering attacks, a **keyfile** can be used along with the passphrase to key the encryption.

The keyfile need to be securely managed since its content need to remain secret as well as the passphrase; any file can be used as a key, but it's strongly recommended to use a randomly generated file.

If a keyfile is used for a non-PEA archive, the SHA256 hash of the file (no size limit) encoded in Base64 (RFC 4648) will be prepended to the password, then it will be possible to work on archives encrypted with a keyfile using PeaZip or any application following the same convention, or simply entering the Base64-encoded hash as the first part of the password. PeaZip can **create a random keyfile** sampling different entropy sources and submitting entropy collected to a robust random number generation routine, in the same interface it's also possible to generate a 4-64 character **random password**; the password will contain mixed case base characters and digits only, in order to be typeable on any keyboard layout and to be accepted by almost all applications or online password forms.

The passwords and keyfiles generated in that way can be used not only in PeaZip but also in any other application requiring a strong password or a random keyfile.

This utility uses functions provided by pea's libraries so refer to Pea documentation for any detail about random number generation and entropy collection in PeaZip project.

Set advanced filters (F11)

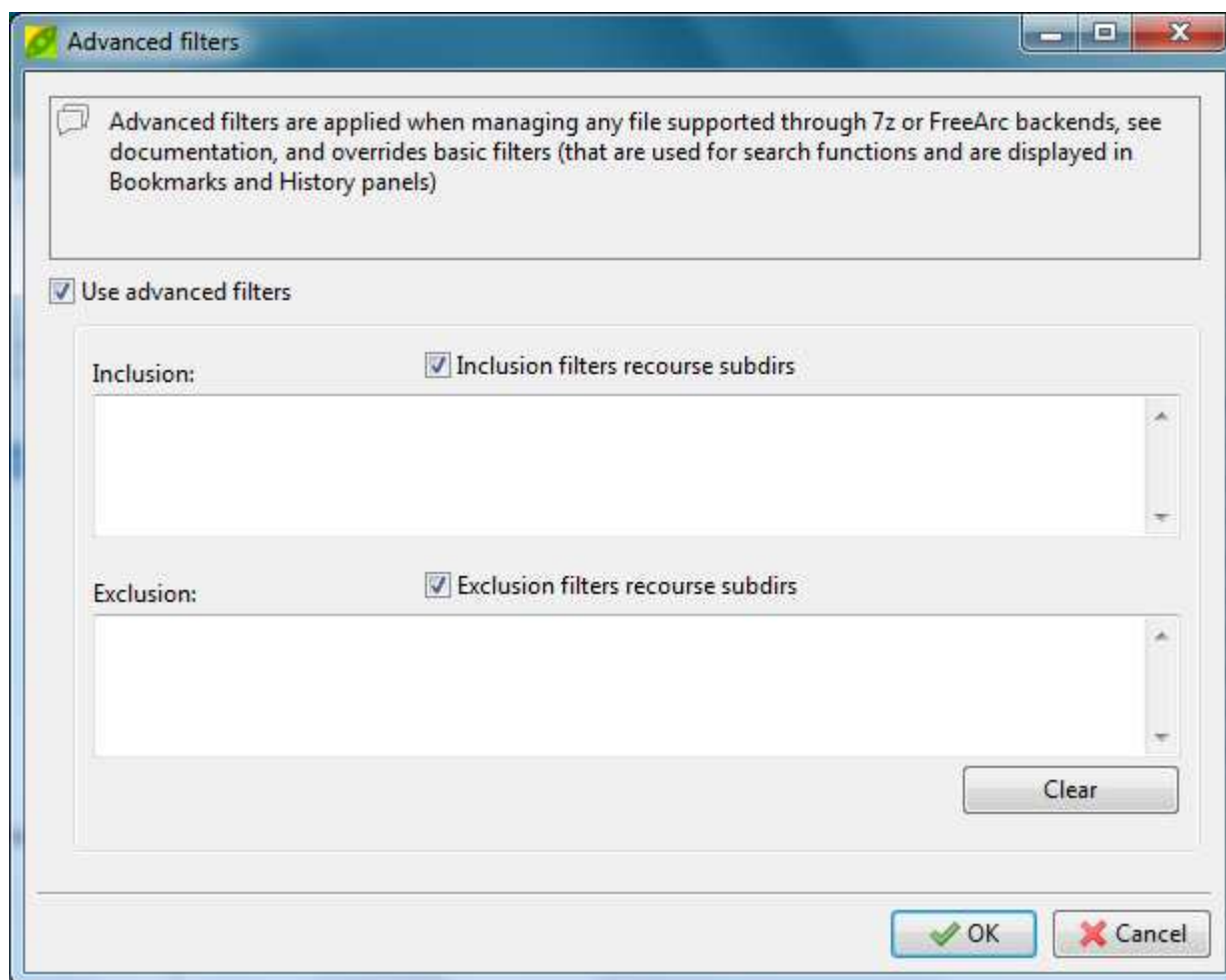


Image 11: inclusion and exclusion filters

“Advanced filters” form allows to use multiple inclusion and exclusion criteria, one per line, that can optionally recurse subdirs of the archive (“Inclusion/Exclusion filters recurse subdirs” options), and can be applied only to archive formats supported through 7z and FreeArc backends.

The filters can be applied to archive’s navigation, extraction and creation

Advanced filters bypass the archive browser’s basic search filter (in mentioned archive types) so address bar is disabled, while browsing archives which supports advanced filters, if “Use advanced filters” option is checked.

Multiple filters, one per line, can be written in the inclusion and exclusion fields; string delimiters (“ on Windows and ‘ on Linux and other *x systems) are not needed to be explicitly entered by the user.

In example, if the user needs to extract (or display) only “myfile.txt” plus all files named “your file” and all .mp3 files, but not .mp3 starting with a and m, could write in the inclusion field:

```
myfile.txt
your file.*
*.mp3
```

and in the exclusion field:

```
a*.mp3
m*.mp3
```

To exclude **directories**, use the syntax `dirname*\` which excludes all objects contained in the directory named “dirname”. To exclude **subdirectories**, the filter in previous example can be modified as `dirname*\subfoldername*` to exclude all items inside “subfoldername” which is inside “dirname”. Both absolute and relative paths can be used.

Advanced filters can be set from main menu, which shows the entry checked if advanced filters are in use, and from checkboxes in archive and extraction. Please refer to 7z documentation about inclusion and exclusion filters to understand how they work to get best result from this very flexible tool.

File tools

PeaZip collect also handy file management utilities which are not strictly archiving-related. Those utilities are accessible from file manager and (except for secure file deletion) from archive extraction and creation interfaces.

Secure file deletion is intended for securely remove files and folders from disk, avoiding possible data recovery. In the application’s context menus it is featured alongside quick deletion’s entry rather than in other file tools’ submenu. Secure deletion accepts multiple files and directories as input, and provides multiple overwriting of file data with random data stream (AES256 CTR) forcing flush to disk each time, then replacement of content with randomly sized random data to fake file size, and multiple renaming of the file (or folder) with random string. Please use it carefully since wiped data will reasonably be not recoverable with known means. Anyway please note that secure file deletion doesn’t overcome any known risk of data leakage, since may exist copies of the data as temporary files saved by application that accessed the file, or as not securely deleted older version of the file, or cached by the system: wiping a file cannot affect that data, which can be recovered with software utilities or specific hardware probes. Moreover, flash based storage usually re-allocates sectors for writing transparently for the software, in order to reduce unit’s wear since flash units have a shorter lifespan in terms of writes; this doesn’t allow to efficiently physically overwrite original content, reducing the efficiency of file wiping. In those cases only wiping the whole disk would be effective, but this can be very time consuming and, for flash based disks, it will lead to fast wear and reduced lifespan of devices (complete disk wipe is currently not implemented PeaZip’s file wipe procedure). In “Settings > File Tools” it is possible to set number of passes to perform (2, 4, 8, 16) over the data.

Compare files performs byte to byte comparison between two files; unlike checksum or hash based comparison byte to byte comparison can spot exactly what are the different bytes and it is not susceptible of collisions under any circumstance, even if this condition is highly improbable and very difficult or not practically possible to trigger if a proper hash function is chosen.

Check files can perform multiple, user selected hash and checksum on multiple files at once; this is useful to find duplicate files and to check files for corruption when an original checksum or hash value is known. In Tools > Settings > File Tools it is possible to select algorithms to be performed over the input files.

File split/join: plain split file is a format supported in “create archive” interface and split volumes can be merged back to original file from “browse archive” interface, but for ease of use those functions are available from “File tools” menu too.

List/information (from file browser): lists content of selected files/folders; in info mode it shows number of files and folders, older and newer object’s date/time, total space occupation, and larger and smaller object’s sizes.

Hexadecimal preview (beta): a very basic tool to view the content of a file represented as hexadecimal values. Shows offset, hexadecimal representation of bytes, and possible utf8 translation of each string of 16 bytes per row. At current level of implementation please note that:

- not all rows could be correctly represented in the GUI as utf8 strings, but they will be correctly written to file using save report feature;
- the implementation is slow and so it’s limited to small files (up to 16MB).

Extract archives

This interface is activated when one or more archives are selected for extraction from file manager, or when browsing an archive the whole content or part of it is selected for extraction; the main application's menu is enabled (except for Browser submenu) and three tabs are featured.

It is possible to skip this confirmation interface extracting archives directly from the system using “extract here” or “Extract here (in new folder)” context menu entries.

It is also possible to skip confirmation interface and to extract directly from PeaZip's file/archive browser, in example:

- open the archive and drag desired files and folders to the desired output location on your system
- open the archive, rightclick on an item and select “Extract and open with...” to perform both the two operations on the item with a single click
- select a quick extraction destination from the dropdown menu on the right of “Extract” button in toolbar
- Ctrl+E extracts the entire archive, asks for output directory (the same does F12)
- Ctrl+Alt+E extracts archive in its current folder
- Ctrl+Shift+E extracts to desktop
- Ctrl+Alt+Shift+E extracts to user's documents
- Ctrl+0 extracts to the previous output path
- Ctrl+1..8 extracts to 1..8 favourite's path (if defined)
- Ctrl+9 extracts to default output path (if defined)

The aforementioned keyboard shortcuts are available also from the archive extraction interface, to directly start extraction bypassing the confirmation dialog.

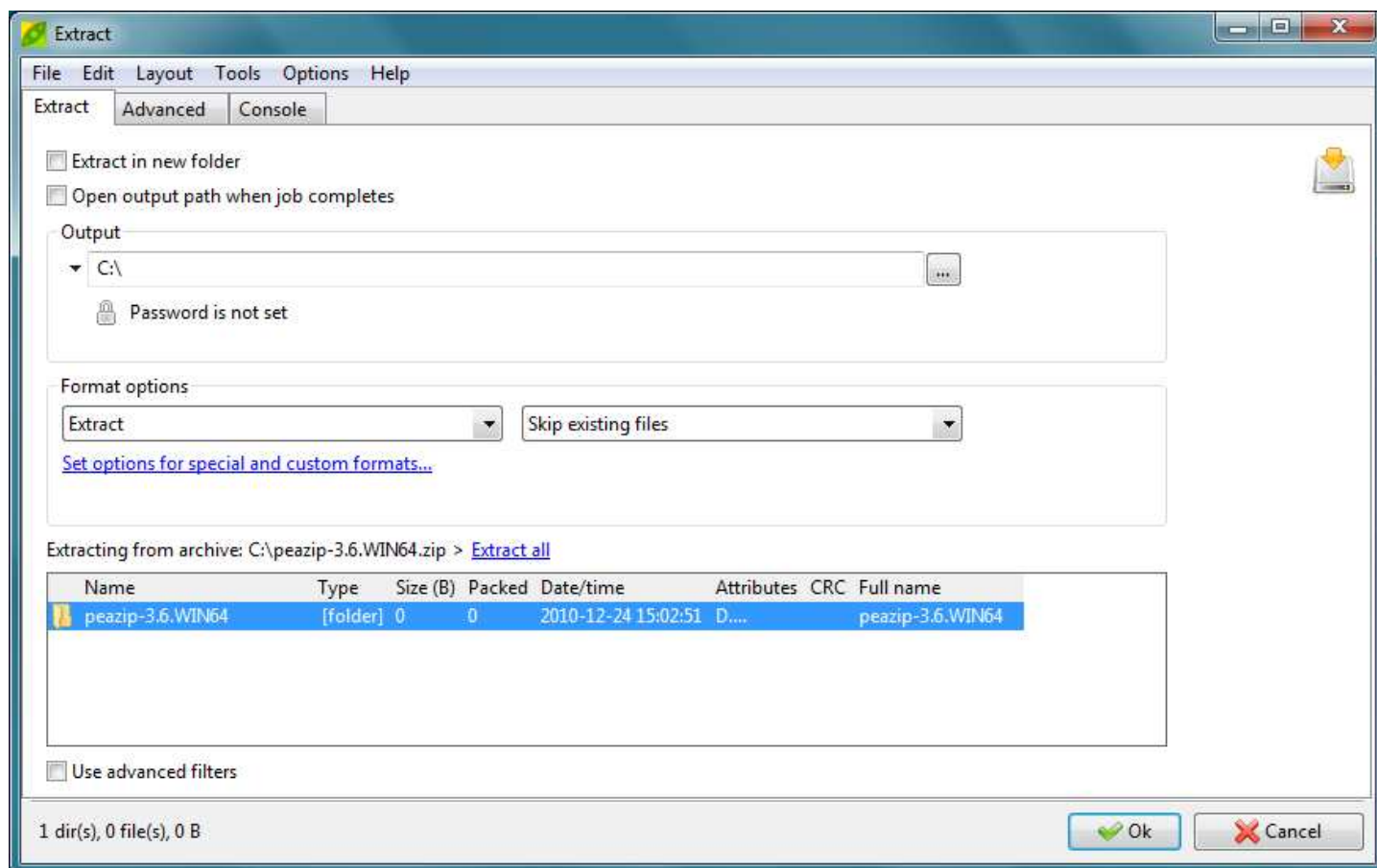


Image 13: Extraction interface

rightclick to display the context menu to add/remove objects from extraction layout, and display other related functions;

click on the arrow on the left of the output address for quick selection of the output path in system's paths, favourites, and recently opened directories.

Extract

This is the main tab for extraction jobs, containing most commonly used parameters and **Ok** and **Cancel** button to confirm start or to discard the current operation.

Clicking Ok also saves modifications to extraction options, while Cancel discards the modifications; it is also possible to confirm changes with an empty layout in order to modify PeaZip's behaviour without the need to start a job.

Options will not be saved if forcedly modified entering a special operation mode, i.e. when using system's context menu entries "Extract here" or "Extract here (in new folder)".

Extract in new folder checkbox, when checked, triggers extraction to a fresh new folder, avoiding possible naming conflict and unwanted "tarbomb" effect (when an unexpectedly large number of files is extracted in current path getting mixed with existing files).

Open output path when job completes automatically open the output directory where the archive was extracted to.

Output group allows to select output directory; on the left of the address box, the arrow button popup a navigation menu similar to the one featured in file manager, to speed up the selection of most used paths.

The extraction's navigation menu is organized in **Filesystem**, **Bookmarks** and **Recent** submenus, containing only directory entries where the file manager's navigation menu can feature also file entries.

In the navigation menu is also featured "Use default output path" entry to select an output path to be used by default in place of archive's path, useful if the user often extracts to the same path.

When this feature is active, the "Use default output path" entry is flagged, and can be clicked again to remove the flag and deactivate the option.

In Output group it is also possible to set the **password**, if needed for extraction, and to control if password is set or not.

Format options

This group set options for 7z backend, that is used to support most common file formats.

- Possible actions performed by the extraction routine:
 - "Extract" extracts archived objects with paths, replicating the directory structure of the input data;
 - "Extract (without path)" will extract all archived files to the same path;
 - "List" will show archive's content;
 - "List (with details)" will give a more detailed report on archive's content, the same given by "Info" entries in context menu. List functions will always be performed in pipe mode (even if 7z option is set to "console mode"), using graphical wrapper in order to make easier reading and saving the report.
 - "Test" will perform type specific tests to prove or disprove archive's integrity.
- What the extraction routine will do in case of naming conflict while extracting data. When changed, this parameter is remembered and saved to PeaZip's configuration file so it is necessary to change it only the first time if a different policy is desired. Please note that also using "Extract in new folder" switch is enough to assure avoiding naming conflict.
 - "Skip existing files" assure that pre-existing objects are not touched by the extraction operation, being the conflicting objects not extracted from the archive (default).
 - "Auto rename extracted files" assign a new unique name to objects being extracted from the archive each time a naming conflict is encountered; that policy assures that pre-existing objects will keep their names and new ones will get new unique names.
 - "Auto rename existing files" assures that extracted objects get the desired name while pre-existing objects are renamed with a new unique name.
 - "Overwrite existing files" make all pre-existing objects overwritten by extracted objects.
 - "Ask before overwriting (in console)": no defined policy, the console will be shown alongside graphic process launcher allowing the user to decide interactively if overwriting or skipping files.

This group also links to "Advanced" tab which contains job parameters for other backend executables.

On the bottom of the tab are listed the archives that are going to be extracted (**extraction layout**), with the total number of archives and total size; additional archives can be dragged here to be added to the list.

If extracting from inside an archive, the layout will not accept modifications from drag and drop or context menu, but it is available "Extract all" link in the line before the extraction layout to turn with a single click a partial extraction in extraction of the entire archive, if desired.

Rightclicking on the input list shows the **contextual menu**, which features functions to add archives to extraction layout (add files, search and drag here, load layout), and other related functions.

The layout can be saved to a UTF-8 text file (for maximum flexibility of use); when a layout is loaded each object is checked (must exist, duplicates are skipped).

From the context menu it is also possible to remove objects from the archive's layout ("Remove selected objects" and "Clear layout") and to explore selected object's path.

"Go to file browser" can be used to return to file browsing without discarding the current list of archives, in example to navigate and search for other archives to be added to the list from file browser interface.

"Open with..." submenu of context menu allows opening the selected object with PeaZip, associated application, or a custom applications.

"File Tools" submenu allows quick access to some PeaZip functions to be applied on selected objects (see "File tools" chapter).

Objects in the archive layout can be sorted by name, full name, size, extension, type, attributes etc, clicking on titles in archive layout's title bar.

“Use advanced filters” checkbox shows if advanced filters are set or not; clicking the unchecked box will show the advanced filter’s form to set inclusion/exclusion filters, clicking the checked box will deactivate advanced filters.

Advanced

This tab features “**Special formats**” group which is similar to “Format options” group of previous tab, and allows to set parameters for non-7z backend executables. Notably, in this group it is possible to change action for FreeArc backend to “Repair”, which (for ARC archives only) verifies integrity and tries to repair the archive(s) using the recovery records that may have been included at the archive creation.

Extract supported non-archive types checkbox, unchecked by default, allows some non-archive types like executables, MS Office and Open Office documents etc to be treated as archives, in order to be disassembled.

In file manager those file types are displayed with special icons to show they can be accessed as archives by PeaZip, but will not be treated as archives by default.

Extract unsupported file types checkbox, unchecked by default, allows any arbitrary type of file to be treated as an archive by PeaZip, providing the user can specify a custom executable backend to handle the file type in “**Custom parameters**” group, which is enabled if this option is checked.

Console

From this tab, only when extraction is launched while browsing inside an archive, it is possible to transform the job defined in the GUI interface into a command line that can be edited (independently from the job definition in the GUI frontend).

Rightclicking on “Click to import...” label or on “Save job” button it is possible to compose the command line operating on all, displayed or selected objects, if partial extraction of content is supported for the current archive type (7z, arc, rar, tar, zip...).

This command line can be launched or saved as a text file for future use, as study, scripting, analysis etc.

Note about extraction

The default operation is extracting recreating the full parent path’s directory tree, as saved in the archive, in the extraction destination path.

This may be necessary to preserve the functionalities of reciprocal links of archived objects, i.e. link files, hypertexts, scripts, programs, databases etc...

In extraction confirmation interface it is possible to override this behaviour selecting “Extract (without paths)” in extraction option: this option will flatten the extracted content to a single directory, all information about the original directory tree (both up and below the directory of the selected items) will not be preserved.

In Options > Settings, Open archive tab, are featured “Always ignore paths...” directives, in order to extract items from the archive in a flat mode without recreating the directory tree, as with “Extract (without paths)”.

These directives can be fine tuned for each special extraction mode: for drag and drop operations, for extract and open with, and for extract selected or displayed objects (all objects shown with current browsing or search filter).

Unlike “Extract (without paths)”, “Always ignore paths...” directives are overridden if one of the selected objects is a directory, this because as flat extraction will lose information about directory tree it is considered unfit for directories, so will be applied only if files are selected.

To apply flat extraction to a directory, rightclick, extract > extract selected objects, set “Extract (without paths)”.

By default these directives are set on for “drag and drop” and “extract and open with” operations, so by default all partial extraction operations starting from file/archive browser interface behaves in the same way, trying to ignore re-creating paths, while by default all special operations starting from the extraction confirmation dialog (extract selected and displayed) will not.

Create / convert archives

This interface is activated when files and folders are selected for being added to an archive from file manager, or when, browsing an archive, it is requested to update it adding other files and folders.

The same interface is activated using for archive conversion, which activates by default “Convert existing archives” and “Add each object to a separate archive” options.

The main application’s menu is enabled (except for Browser submenu) and three tabs are featured.

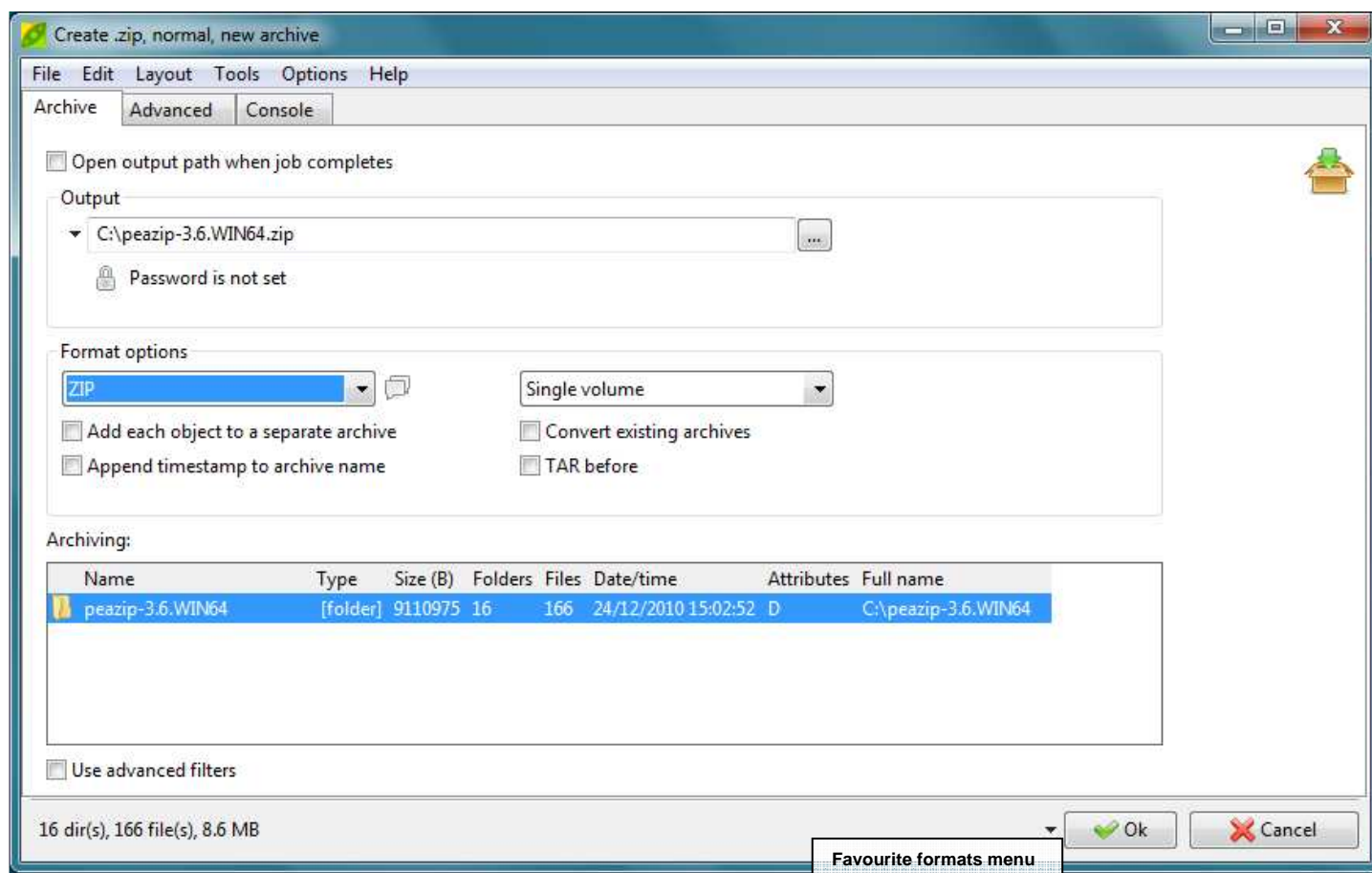


Image 14: “Create archive” interface

rightclick to display the context menu to add files and folders to archiving layout (add files, add folder, search and drag here, load layout), and display other related functions;

click on the arrow on the left of the output address for quick selection of the output path in system’s paths, favourites, and recently opened directories.

Archive

This is the main tab for archive creation (or update) jobs, containing most commonly used parameters and **Ok** and **Cancel** button to confirm start or to discard the current operation.

Clicking Ok also saves modifications to archive creation options, while Cancel discards the modifications; it is also possible to confirm changes with an empty layout in order to modify PeaZip’s behaviour without the need to start a job.

Options will not be saved if forcedly modified entering a special operation mode, i.e. adding files to an existing archives.

Please note that some options (like TAR before or conversion switches, or some advanced format options) are context dependent and will be reset in next job instances.

Open output path when job completes automatically open the output directory where the archive was created in.

Output group allows to select output directory and file name; on the left of the address box, the arrow button popup a navigation menu similar to the one featured in file manager, to speed up the selection of most used paths.

The archiving navigation menu is organized in **Filesystem**, **Bookmarks** and **Recent** submenus, containing only directory entries where the file manager’s navigation menu can feature also file entries.

In Output group it is also possible to set the **password** to create an encrypted archive; if a password is set the field will inform if the selected archive format supports encryption, in this case for better visibility the advice is evidenced in green.

From password popup it is possible to check/uncheck “Encrypt filenames” option, which, if supported by the selected archive format (7Z and ARC formats) does not allow to browse the content of the archive if the right password is not provided.

Format options group allows to set the archive format, more options for each format can be fine-tuned in “Advanced” tab (see next chapter for more details); last used compression options will be remembered to be used as default, avoiding the need to set it in advanced tab following times the format is used; resetting applications default resets also compression options.

The info icon in the right of the archive type selection combobox will display a brief explanation of the characteristics and features offered by the selected format.

The arrow on the left of OK button shows **favourite formats** menu, which for brevity and simplicity displays only some of the supported archive format, the most widespread. Favourite formats can be customized in Options > Settings > Create archive.

In the same group it is possible to set **Volume size**, allow (optionally) splitting the resulting archive in volumes of given size, choosing between presets (from 1.44 MB FD to 8.5 GB DVD DL size) or freely composing a custom size.

This option is not supported by some formats (i.e. self extracting archives) and will be automatically overridden if not supported (the combo box will be greyed to be noticed by the user).

*Hint: to store large files/archives on **small supports**, or to respect **mail attachments size limitations**, it is possible to split the output in volumes of desired size (“Options” tab), instead of spending more time for a deeper compression which is not always capable to reduce the output under the desired size.*

Add each object to a separate archive send each item in the list to a separate archive.

In example, adding x folders to the archive list with this option checked will create x separate archives; if it is desired to add each file contained in a folder to a separate archive, instead, select the files in file manager and click “Add” to add them individually to the list.

Convert existing archives extracts listed archives (not modifies non-archive files and folders) in order to recompress the original data from its uncompressed form, which can improve compression ratio.

Used with previous option (default, if “Convert” function was requested), it performs a mass conversion of listed archives into the desired format.

After the extraction stage it asks for confirmation to proceed with compression, this allows to abort the process in case of problems (disk full, unknown password, corrupted archives etc) or to further modify the extracted data before the compression.

After the compression stage, it asks for confirmation before deleting temporary files and folders created for conversion, however original archives are not deleted and not modified in any stage of the conversion to let the user in control about keeping or removing them.

TAR before option allows to consolidate all input objects in a single TAR archive, temporarily saved in the output path, which will then (in a second pass) be compress/encrypt/split using the format specified in archive type combo box (after that second pass the temporary TAR archive will be deleted).

That option allows easily merging the advantages of TAR format (of mainstream and standard usage on most Unix systems) with features of other archive formats. It is especially useful as it allows to select compression-only formats (like gz, bz, quad) to compress archives of multiple objects (resulting i.e. in tar.gz or tar.bz or tar.quad) quite transparently for the user, but however it can be used in conjunction with any format (forming i.e tar.7z, tar.paq, tar.pea and so on).

The application will try to check if “TAR before” option is needed; however the user can check/uncheck this option anytime before launching the archiving process.

Append timestamp to archive name will append current date and time to the name of the archive, it is useful for archiving and backup purpose.

On the bottom of the tab are listed the archives that are going to be archived (**archiving layout**), with the total number of files and folders and total size; additional files and folders can be dragged here to be added to the list.

Rightclicking on the input list shows the **contextual menu**, which features functions to add files and folders to archiving layout (add files, add folder, search ad drag here, load layout), and other related functions.

The layout can be saved to a UTF-8 text file (for maximum flexibility of use); when a layout is loaded each object is checked (must exist, duplicates are skipped).

From the context menu it is also possible to remove objects from the archive's layout (“Remove selected objects” and “Clear layout”) and to explore selected object's path.

“Go to file browser” can be used to return to file browsing without discarding the current list of archives, in example to navigate and search for other files and folders to be added to the list from file browser interface.

“Open with...” submenu of context menu allows opening the selected object with PeaZip, associated application, or a custom applications.

“File Tools” submenu allows quick access to some PeaZip functions to be applied on selected objects (see “File tools” chapter).

Objects in the archive layout can be sorted by name, full name, size, extension, type, attributes etc, clicking on titles in archive layout's title bar.

“Use advanced filters” checkbox shows if advanced filters are set or not; clicking the unchecked box will show the advanced filter’s form to set inclusion/exclusion filters, clicking the checked box will deactivate advanced filters.

Advanced

This tab contains fine-grained options for each supported format, including compression level.

Once advanced options for a given format are set, they are remembered, so it is usually not needed to use Advanced tab and all of archive creation can be done from Archive tab.

*Hint: most of **multimedia file formats** (like jpg, png, mpg, avi, mp3...) are already compressed with algorithms that are either lossy and/or strongly optimized for the specific data structure, so compressing them with general purpose lossless compression algorithms, even most powerful ones, are likely to provide only marginal benefits in terms of size, compared with huge benefits which can be obtained compressing other types of files (bmp, tiff, doc, xls, txt, html...).*

Consequently, it is recommended to use fastest compression settings, or fast algorithms (i.e. gz and zip’s deflate), or even “Store” option to don’t compress, to archive those types of files in a computationally efficient way; in this way it is possible to consolidate and optionally encrypt files that are sent to the archive, without spending much time for compression.

Backend executables can be used by PeaZip in the native console mode or, by default, through a graphic wrapper (see “PeaLauncher” chapter), displaying additional information usually not given by the console application (exit code explanation, input size, elapsed time in ms, speed in B/ms) and allowing to save a job report (console output plus additional information); this behaviour can be customized in Options > Settings.

7z - Performances scales very well on multicore machines; following formats are recommended:

7Z when high compression is desired; offers powerful encryption

ZIP to provide archives which all Windows user can read with integrated “compressed folders” utility, or with most of mainstream file/archive managers

TAR (optionally compressed with GZ or BZip2) to provide archives which most Unix (Linux, BSD ...) users can read with applications usually bundled by default

Selecting a format supported through 7z executable (7z, Bzip2, GZip, Self-extracting, Tar, Zip) it will be displayed the 7z option subpanel, featuring Options, Compression and Encryption group box.

“Compression” group box allows choosing compression level and algorithm and to fine tune compression options, which are format specific.

Last used compression level and method is remembered by PeaZip for 7z backend, but other custom options (dictionary, word, passes, solid block size) will be remembered only for the current session (until the archive type is changed or edited) and next times the last used compression level will be proposed with its default settings.

Option “Compress files open for writing” allows to add files to the archive even if open for writing by other applications, very useful when running backup jobs (otherwise, if the option is not checked, open for writing files will be skipped); the last used setting is remembered.

“Create self-extracting archive” options create a Win32 executable (.exe) that will self extract archive content (archived and compressed in 7z format); the receiver will then not need any application to extract the archive since all what is needed for extraction is embedded in the archive itself. As drawback the resulting file will be about 80KB bigger than the raw archive and the executable must be in a single volume (Volume size option will be greyed). Checking this option the user can choose between a console and a graphical interface (default) for the self-extracting application.

“Encryption” group box contains encryption related options:

- “Algorithm” allows to chose encryption algorithm; 7Z format supports AES, while ZIP supports AES and ZipCrypto algorithm. AES is always used with 256 bit keys. ZipCrypto is a weak algorithm but may be useful if the user need to generate encrypted .zip archives compatible with some outdated applications not supporting new WinZip standard AES-based AE encryption.

“Options” group box allows choosing other format specific options:

- “Function” combo box allow to choose the policy to follow when a pre-existing archive with the given name is found on the system:
 - new archive will force the creation of a new archive, with unique name;
 - add will append the input objects to the archive content, if an archive with the given name exists;
 - update will substitute matching objects into the archive, if existing, with input objects.
- “Threads” combo box allow specifying the number of threads to try to generate for parallelising and speeding up the execution of the application (possible only for LZMA, Deflate, Deflate64 and BZip2 algorithms) on Hyper threading-enabled / multi-core / multi-CPU environments; on Windows systems single processor systems will be recognized and will use “no multithreading” option by default while multi processor system will use “generic multithreading” option by default; on non Windows systems “no multithreading” is the default option.
- “Other” edit box allows to freely enter additional parameters for the archiving job. This string is inserted by default after all the parameters set by the GUI and its syntax is not checked, so use with caution.

- Send by mail open a new mail in the default mail client, attaching the resulting archive; it requires a compatible mail client as default system client, i.e. Outlook or Outlook Express in Windows, and doesn't work with multi volume archives (the options is hidden if Volume size is not "Single volume").

ARC - *Recommended when high compression is desired; offers powerful encryption and, optionally, recovery records. Performances scales very well on multicore machines.*

In FreeARC's options subpanel, it is possible to adjust compression level, specify file grouping strategy for solid archives, create recovery records to attempt archive's repair in case of corruption, encrypt the archive with various encryption algorithms (AES, Serpent, Twofish, and Blowfish), create self extracting archives selecting from many sfx modules.

The format is currently being actively developed.

Custom - *Allows to select an external compressor/decompressor to support file types which are unknown to PeaZip*

Selecting "Custom" format, it will be displayed a subpanel allowing to specify archiver/compression utility to use to perform the job, alongside parameters (free editing) and syntax (the way parameters, input list and output name should be organized on the resulting command line).

Last 8 used custom executables are remembered and can be chosen from a popup menu rightclicking on executable's selection control.

Please note that exact syntax of the command for a custom executable may need to be utterly adjusted, this can be done in "Console" tab, which allows importing and free editing of the job definition.

Pea - *Recommended when powerful encryption and integrity check are desired; provides fast compression*

Selecting Pea as archive format it will be displayed the Pea option panel; this is the archive format developed from the author of PeaZip and it is supported through Pea executable; for more information on it you may look the documentation about Pea on <http://www.peazip.org/peazip.help>.

QUAD/BALZ - *Recommended when it is desired to provide average to good compression, with fast uncompressing*

Selecting QUAD/BALZ, the option subpanel will allow to choose compressor engine between QUAD and BALZ (newer ROLZ-based compressor), and if using max compression mode (for both QUAD and BALZ, compression will be slower, but decompression will remain fast). QUAD and BALZ are compression only algorithms and likewise other ones (GZ, BZ2, LPAQ) they can benefit of "TAR before" switch for handling multiple input files.

Split - *Recommended to split a single large file to the desired size, without attempting compression*

Options for file split are limited to optional integrity check algorithm to be performed on the file; integrity check information will be saved on a separate file, allowing files splitted by PeaZip to be joined by other similar applications (like Unix split, Hjsplit, FileTools etc).

UPX - *Recommended to developers to reduce the size of executables*

UPX compression is intended mainly for developers needing to reduce the size of executables before distribution.

It can accept only a single executable file at time and is not intended to be used as a general purpose compression utility; in fact misapplying Strip and/or UPX on non suitable executables (i.e. jet stripped executables) may easily lead to unusable output executables.

It is possible to omit either UPX compression (selecting "do not compress" in "Compression" combo box) or Strip pre-processing (unchecking "Strip before UPX").

By default it is created a backup copy of the executable before Strip/UPX (option "Keep executable's backup"), named as the executable with .backup extension appended.

***PAQ** - *Recommended when highest possible compression is desired (experimental; speed and memory usage makes it not recommendable for general purpose use on current generation machines)*

PAQ is a very powerful compression scheme and it's presently in research state; different versions and branches exist and you should use the very same implementation to compress and uncompress data, PeaZip uses PAQ8O for compression.

It brings unmatched compression ratio, better than any other compressor; the downside is that the algorithm has very high memory and computing power requirements for today's machines, resulting to be very slow if compared to mainstream compression algorithms, so the user should carefully consider if the speed/compression trade-off would be advantageous case by case.

To obtain best results while compressing many small files you should also consider consolidation them before (i.e. using tar) since PAQ would store filenames (and sizes) in uncompressed form.

ZPAQ is faster and lighter than PAQ, at the cost of a slightly inferior compression ratio.

Please note that for ZPAQ currently PeaZip supports only storing/extracting to full pathnames, so output options will be ignored for that format.

Console

From this tab it is possible to transform the job defined in the GUI interface into a command line that can be edited (independently from the job definition in the GUI frontend); this command line can be launched or saved to a text file for future use (study, scripting, analysis etc).

Keyboard shortcuts for archive extraction and creation

~ `	1	2	3	4	5	6	7	8	9	0	- _	+ =	Backspace
Tab	Q	W	E	R	T	Y	U	I	O	P	{ [}]	 _
Caps Lock	A	S	D	F	G	H	J	K	L	:	" '	Enter	
Shift	Z	X	C	V	B	N	M	< ,	> .	? /	Shift		
Ctrl	Win Key	Alt							Alt	Win Key	Menu	Ctrl	

Operations:

Archive / Extract (as Ok button)	Ctrl+Alt+Enter
Cancel (as Cancel button)	Shift+Backspace

In extraction layout:

Toggle extract to new folder on/off	Shift+Ctrl+N
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In archiving layout

Change archive type to 7Z	Shift+Ctrl+7
Change archive type to BZip2	Shift+Ctrl+B
Change archive type to GZ	Shift+Ctrl+G
Change archive type to 7Z self extracting	Shift+Ctrl+S
Change archive type to TAR	Shift+Ctrl+T
Change archive type to ZIP	Shift+Ctrl+Z

File tools:

Checksum/hash selected files	?
Compared selected file with...	=

Archive layout-related: (the archive list is selected)

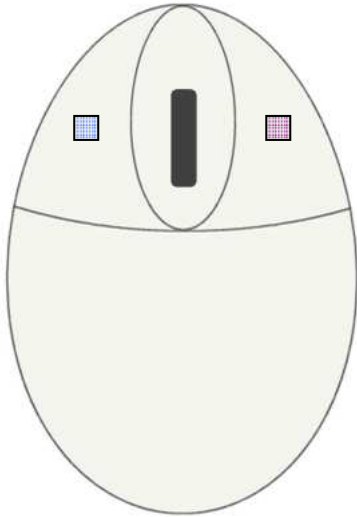
Add file(s)	Ctrl+A
Add folder	Ctrl+F
Add from search dialog (drag to archive)	(context menu only)
Load archive's layout	Ctrl+L
Save archive's layout	Ctrl+S
Open object with default application	Ctrl+O or Enter or doubleclick
Open object with ...	Ctrl+W

Remove selected object from archive's layout	Cancel or Ctrl+R or Ctrl+Backspace
Refresh	F5 or refresh icon on the left of layout's titles row


Extract without confirmation (from browser and extraction interface):

Extract all to... (open selection dialog)	Ctrl+E
Extract all here	Ctrl+Alt+E
Extract all to Desktop	Ctrl+Shift+E

Mouse controls for archive extraction and creation



 **Doubleclick:** open selected object with associated application or browse folder

 **Rightclick:** activate “create layout” context menu;

PeaLauncher

PeaLauncher is the job's graphic wrapper, a component that graphically displays an underlying job performed by a console-based backend used by PeaZip to create, extract, test or list an archive

By default, the window closes if no errors are detected, but remains always open for test, info and list jobs which requires the user to read the job's report.

It is possible to always keep the job's window open after job termination, to inspect job's log and command line, selecting "Always keep open" in PeaLauncher combo box in Options > Settings

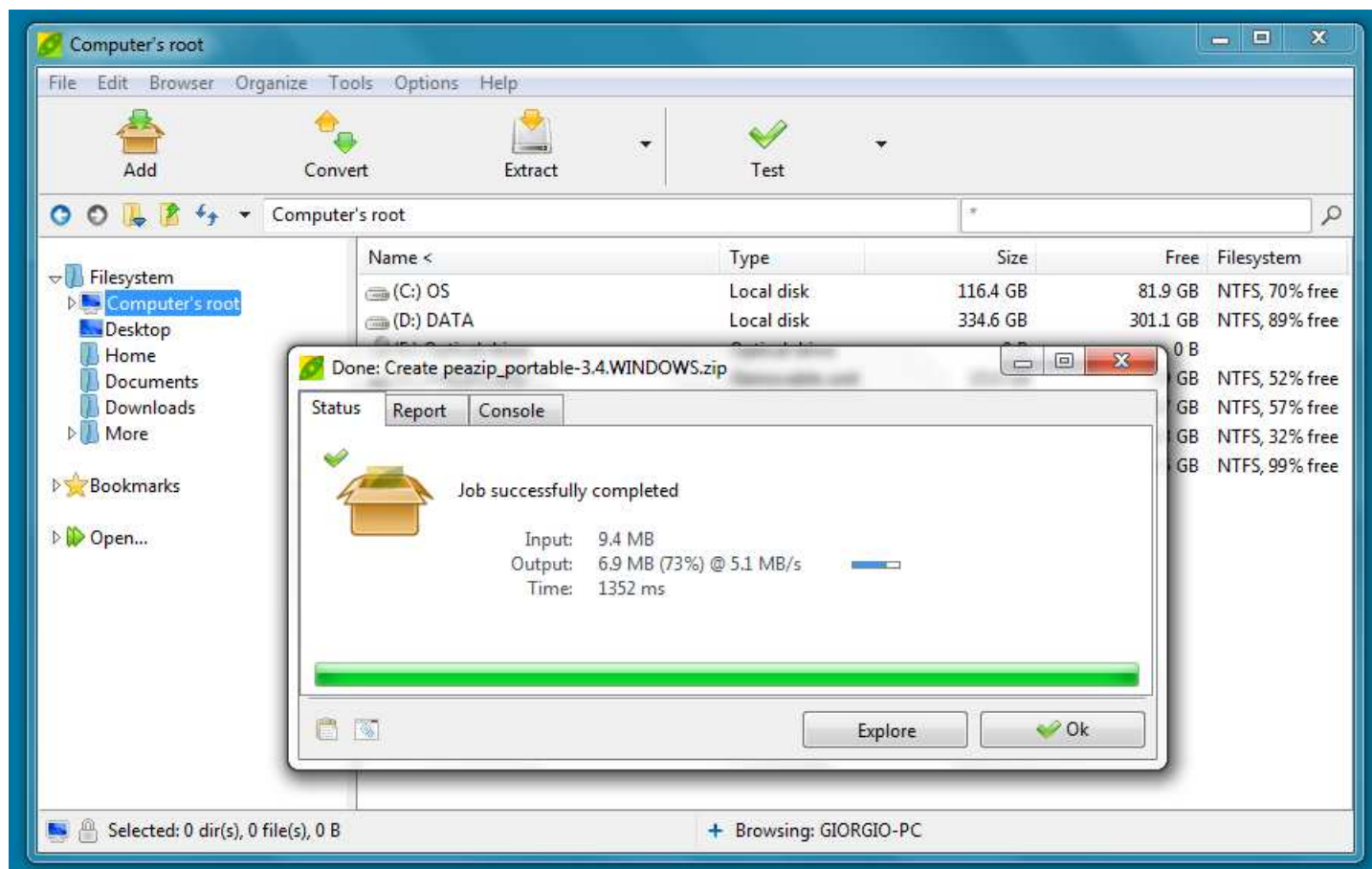


Image 15: PeaLauncher; it will auto close by default, this behaviour can be changed in Options > Settings

The graphical wrapper is not invoked if jobs are running in console interface, either because they need to run in console (UNACE, UPX) or because the user selected to use "Console interface" in program's options; however list and test always run in graphic wrapper mode using pipes to give readable job log.

In console mode, the console will automatically close when job is completed without prompting any message if the job completes without errors, otherwise an error report will popup.

PeaLauncher can run also in "GUI + console" mode (see Settings chapter) displaying both the graphical interface and the underlying job running in its native console interface, showing its native progress indicator, usually more detailed and reliable than GUI's one.

PeaLauncher's "Options" tab allows to set, for the current job: if the output path should be opened at the end of the job, and if to shut down the system when the job has terminated. The tab is available only while the job is running.

PeaLauncher can be invoked with no parameters, or with a single archive file as parameter (i.e. dragging an archive over the executable, or a link to PeaLauncher), to be used as a minimalist standalone extraction application.

Settings

Options > Localization allows to set application's language; the application will be restarted with chosen localization.

Options > Settings allows to configure behaviour and aspect of PeaZip application.

Reset button deletes configuration file (including recent archives history) and resets to default theme; it does not remove bookmarks nor changes "Open with" associations, which are saved in separate files.

The link "Configure file associations, context menu and SendTo menu" in the button area allows to change how PeaZip is integrated in the system, without the need to run the setup package.

This entry is available also for PeaZip Portable and allows to integrate the software in the system if desired. To remove system integration it is possible to run this function and chose "none of the above group" for files, context menu and SendTo menu, or else running unins000.exe in PeaZip's folder (unins001.exe for the installable version) for complete removal of any integration with the system.

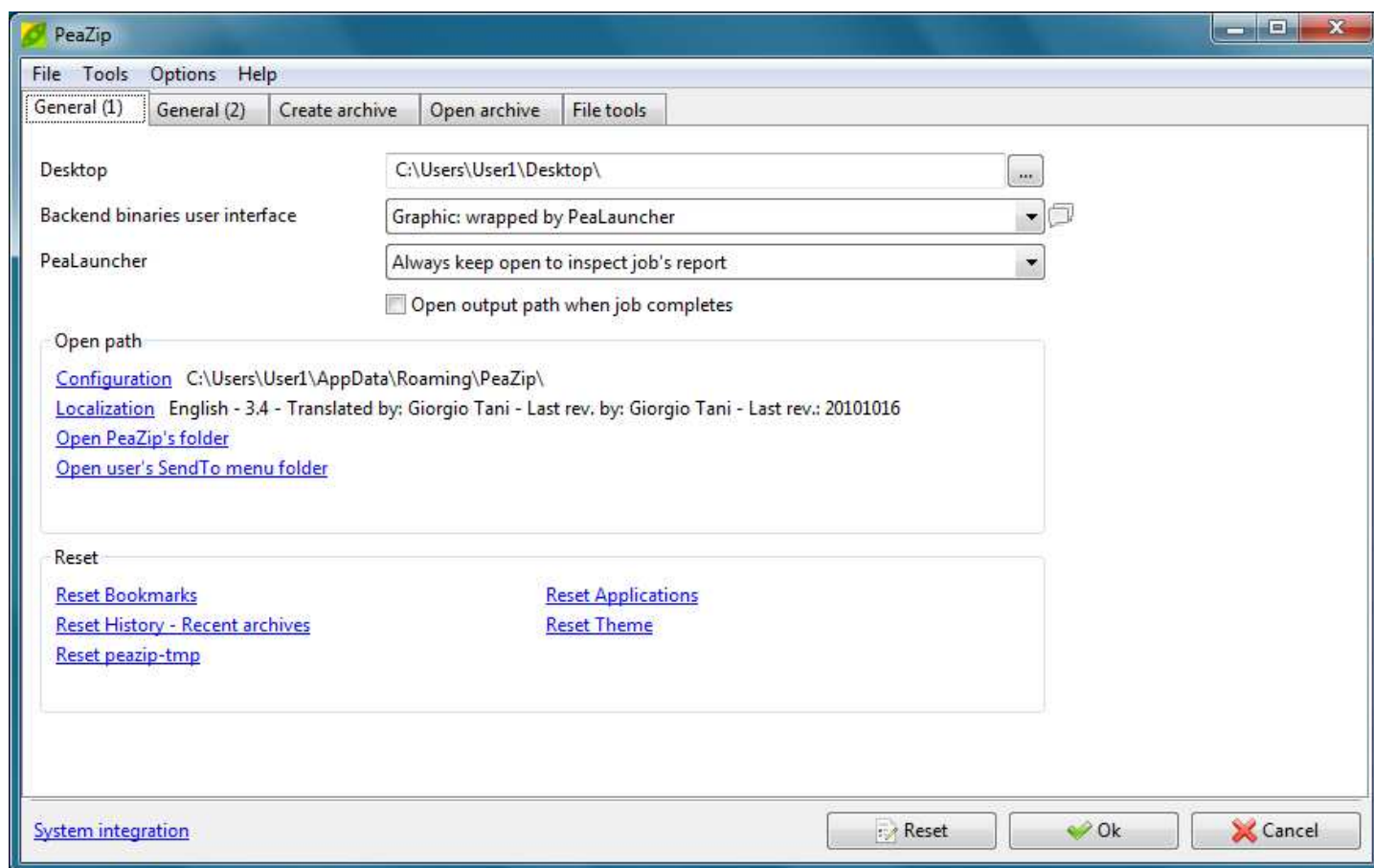


Image 16: settings panels

General (1)

- "Desktop" contains the path of user's desktop, if correctly got from PeaZip; it also allow to set an arbitrary path to be used as desktop for the application, if preferred.
- "Backend binaries user interface" group allow to chose the way the backend command-line applications will run:
 - in the native console interface (console mode), giving detailed and real time progress indication;
 - through a graphical wrapper using pipes (graphic, default), giving a very detailed job log and allowing to pause, resume and change priority of the job;
 - graphic + console: like the previous, but also showing native console interface: gives a responsive UI and at the same time plenty details and real time progress indication.
- "PeaLauncher" sets the policy about PeaLauncher window:
 - always keep the window open, useful to inspect job's report and command line
 - keep open only if needed (default from version 2.6), keeps the window open only in case of errors, or for test, info and list jobs requiring the user to read the job's report
 - run minimized, run the job's window minimized in order to not steal focus from other activities, but show the job's window if needed (error, list/test jobs).
 - always force to close the window at job termination, regardless the kind and the result of the job
- Open path group contains links to open application's paths

- Configuration path, containing configuration, bookmarks and “Open with” files, and the persistent randomness collector file
- Localization, PeaZip’s /res/lang subfolder, containing available language files. If the language file is correctly loaded, translator’s name and translation’s revision date are displayed.
- Open PeaZip folder
- “Open user’s SendTo menu folder” help in creating, editing and removing SendTo menu links, and to copy those entries from one user to another, or from reference examples in \SendTo folder in program’s directory.
- Reset switches:
 - Reset bookmarks: delete bookmarks
 - Reset History – Recent archives: delete records of latest visited or created archives
 - Reset peazip-tmp: from version 3.0, on Windows, PeaZip uses temporary files to allow adding multiple input to a single instance of the application from context menu. Temp files are deleted automatically (otherwise the mechanism would not work) but in case of any kind of problem this reset switch removes any possible leftover. This allows also to continue adding input from the same directory selecting objects and using context menu’s entry, as an alternative to dragging the object to the application window that might be less handy if the desktop is crowded by windows (this reset is applied also using main “Reset” button).

To avoid using temporary files at all, it is possible to add multiple items to a single instance using SendTo menu entries. SendTo menu links can be simply copied to one user to another as needed, they are located in C:\Documents and Settings\username\SendTo (Windows XP) or C:\Users\username\AppData\Roaming\Microsoft\Windows\SendTo (Vista/7), assuming C as system’s disk.

- Reset Applications: delete configuration of custom editors/players/scripts/websites etc that can be associated to override default system’s associations in “Open with...” tab, and parse the system to build a list of default application for “Open with...” menu
- Reset Theme: change visual aspect of the application to the default values for the default theme (this reset is applied also using main “Reset” button)

General (2)

- “Encoding” group contains character encoding related options
 - Encode job definition as UTF-8 text: if checked job definition files are saved with UTF-8 encoding header, otherwise no header will be prepended to the file.
 - Archive browser interface’s character encoding option: if flagged, displays extended characters in archived object’s names as UTF-8 text, otherwise replaces extended characters with “?” jolly character (as in pre-2.5 releases).
 - 7z/p7zip -scc allows to set the character set to be used in list operations for archive types supported through 7z/pzip backend, default is UTF-8. If DOS charset is chosen on Windows systems, the characters are utterly converted from the console’s charset to the Windows’ charset, but at current level of development it is successful only if system’s console environment uses single-character encoding or UTF-8 (CP65001).
 - 7z/p7zip’s -mcu if flagged allows to use UTF8 encoding inside ZIP archives for file names that contain non-ASCII symbols

Note: replacing extended characters with “?” jolly character may improve commands syntax if, for any reason (i.e. limitations due to guest OS, archiving software creating the archive being read, or archive format limitations), the character set used while creating the archive cannot be successfully translated on the current machine opening the archive.

- “Other” group:
 - “Execute jobs in parallel when possible” (off by default) when this option is flagged PeaZip launches all scheduled compression and extraction jobs at once; if the option is not flagged jobs are launched sequentially in order to improve disk performances reducing the number of concurrent operations to be performed at once on the disk.
 - “Save history of last used archives”: on by default, allows to keep track of recently created and opened archives (File > Recent submenu); disabling the option the history will not be tracked, the submenu will be disabled and existing items will be cleaned closing the application.
 - “Show hints”, on by default, enable or disable application’s hint popup.
 - “(Windows) Copy files in restartable mode” (off by default) when activated, on Windows, copies files with Robocopy in restartable mode, which is slower but can be useful on networks to automatically retry and continue the operation in case of errors.
 - “(Windows) Get volume information for network units” (on by default) when activated collects size, free space and other information about network mapped units. If the network is slow or a mapped unit gets disconnected, the operation may require many seconds, so if a slowdown is detected this option is automatically unchecked, but is always possible to change the value manually as desired.

- “Working directory” (output folder / system’s temp folder) allows to set the temporary working directory for archive creation/updating or archive preview operations, by default the output path is used.

Create archive

- “Favourite formats” allows choosing a selection of user’s favourite formats to be displayed in the popup menu on the left of Ok button in archive creation interface, for a quicker selection.
- “Default format” sets the default archive/compression type, by default last used format is kept

Open archive

- “Archive browser interface” sets the way the content of archives is displayed: a classic navigable browser (default), or flat view to show all archive’s content, or last used mode.
- “Fast open routine, stop browsing if list exceeds:”, default on. PeaZip will stop representing archive’s content in the GUI if the resulting list’s memory stream is bigger than the given value. It allows to quickly opening very big and populated archives stopping preliminary operations if they are taking too much time/memory, allowing the user to narrow the selection with full functional search or filter functions. Extract/list/test operations are not affected by this setting, it is applied to archive browsing only.
- “Advanced” group contains less often used settings
 - “Always ignore paths...” directives: ignore paths extracts file(s) to output path not re-creating the directory structure as is in the archive, by default it is on for drag and drop and extract and open with operations. It can be fine tuned applying the directive to:
 - Drag and drop operations
 - Extract and open with... operations
 - Extract displayed objects (objects shown in current browsing or search filter)
 - Extract selected objects

Hint: when extracting a folder from the archive the paths will be always preserved, overriding this option for all ignore paths switches; see Extract archives chapter, Note about extraction paragraph for more information about how extraction operations can be fine tuned and customized in PeaZip.

- “On extract/list/test operations from system’s menus” set PeaZip behaviour when an extract, list or test operation is launched from a system’s menu entry:
 - Don’t ask for password: assume the archive is not encrypted and immediately start the operation without spending time in searching if a password is needed;
 - Test if password is needed (slower): the default behaviour with PeaZip evaluating if a password is needed, time needed depends from type and size of the archive; test can be limited to archives under 100 MB or 2 GB of size;
 - Always ask for password: always popup password request, note that it is possible to ignore it (press enter or Ok button) to immediately start without providing a password.

File Tools

- “Checksum/hash files” group allows to select algorithms to be used for file checksum/has and how to display the result (hexadecimal, hex LSB, Base64).
- “Secure deletion” group allows choosing number of passes to perform to securely delete files (2-16); each pass perform: overwrite file with random data, mask original file size, rename file.

Customize theme

Themes set the default values various visual settings of the application, and for Pea and PeaLauncher executables. Theming values can be saved in the current configuration, and will override correspondent theme settings, which can be restored clicking on “Reset” link for each variable. To prevent using of too high levels of transparency that will make the application unusable (up to totally invisible) there is a maximum level of transparency hard coded for the application.

From Options > Themes, in the “Theme” drop down menu the user can chose to use preset themes which comes packed with PeaZip, or a custom theme, selecting a theme package with extension “.theme.7z”.

Themes can be downloaded from “Download themes” link on the same panel, pointing to <http://www.peazip.org/peazip-themes.html>

The user can also create new themes clicking on “Create Theme from current settings”, it will be created a theme package on the desktop named nameofthetheme.theme.7z; themes can be distributed as independent packages.

To further customise themes, or to remove unwanted themes, “Manage Themes” opens the path containing themes, that is in user’s application data for installable versions or inside PeaZip’s folder for portable versions.

Theme’s graphic can be edited with any graphic files editor, and theme.txt can be edited as UTF-8 text.

The file note.readme (plain text) is inherited from the original theme, please edit it with relevant information and credits about the new theme if you plan to release it.

It is recommended to not delete or modify the default theme, saved in \PeaZip\res\themes\, that is “seven” for Windows versions and “firecrystal” for Linux versions

Program’s icons, on Windows, are stored in \PeaZip\res\icons\ path and can be edited with a suitable editor or replaced with custom icon files; on Linux systems icons (in PNG format) are stored accordingly the distribution and the desktop environment policies, i.e. \opt\kde3\share\icons\ or \usr\share\icons\

Hint: custom, user-provided icons and other resources can be found on <http://code.google.com/p/peazip-resources/downloads/list>.

Advanced settings editing

Program’s configuration is stored in conf.txt file, which by default is saved in /res folder in application’s path, but an alternative location, either as absolute or relative path, can be set in second line of altconf.txt file in the same folder: “**same**” string in altconf.txt specify the data has to be saved in program’s res path (best for portable packages) and “**appdata**” specify the data has to be saved to %appdata%\PeaZip\ path in user profile (Windows) or /.PeaZip/ path in user’s home on Unix systems, to guarantee write access to data from current user’s profile and allow different users to store different and private profiles for PeaZip.

In this way only the invariant data (including altconf.txt, binaries, graphic and default themes, language files etc), which needs to be accessed only for reading during normal program’s usage, is stored in program’s path, that could be even set as read-only.

All variable data files (conf.txt, rnd, custedit.txt and bookmarks.txt), which can need to be accessed for writing during normal program’s usage, will be stored in res folder (by default) or any other path specified in altconf.txt.

Variable data path in use is shown on the bottom of the Settings panel; if the altconf.txt file is deleted PeaZip will rebuild a default one which sets variable data path in /res folder.

The user will then be able to keep separate pre-set configuration files which can be used alternatively editing the altconf.txt file, or to package the application to fulfill custom needs as to keep the variable and invariant data stored in separated paths.

Supported formats

See also <http://www.peazip.org/peazip-free-archiver.html>

Main families are:

Through **Pea** executable (LGPL, Windows and Linux)

- Full support
 - PEA: security focused, flexible integrity check and optional two factor authentication with passphrase and keyfile (AES256 EAX mode authenticated encryption), fast compression comparable with Zip/Gzip, native multi volume spanning.
 - Split: compatible volume spanning (file split/join) function with optional integrity check

Through Igor Pavlov's **7z** (LGPL, Windows) and Myspace's POSIX 7z (LGPL, Linux)

- Full support
 - 7z, 7z sfx: feature-rich archiving format, strong AES encryption, awesome compression ratio and optionally auto extracting archives (sfx, Win32 executables)
 - Bzip2 (BZ, BZ2, TBZ, TBZ2): single file compressor, adequate speed and good compression ratio
 - Gzip (GZ, TGZ): fast single file compressor, adequate compression ratio
 - TAR: mainstream archiving and backup format for Unix platforms, often used to archive data to be compressed with GZip, BZip2 or other algorithms
 - ZIP: mainstream archiving and compression format for Windows platform; support covers also Deflate64, LZMA and PPMd compressed archives, and AES-encrypted archives
- Browse/extract support
 - ARJ, LHA, LZH: popular archiving format on DOS and early Windows platform
 - CPIO, Z, TAZ, TZ: archive/compression formats for Unix platforms
 - LZMA: single file compressed with LZMA algorithm, introduced with 7z format; and XZ: single file compressor, based on LZMA-family algorithm, providing excellent compression ratio
 - RAR: popular archiving and compression format, with advanced encryption and error recovery features
 - Various archive types based on ZIP or its modifications
 - Java archives: JAR, EAR, WAR
 - PAK, PK3, PK4 : modified zip archives, used to store data by some popular games (like Quake3, Quake4, Doom3)
 - SMZIP
 - UP3: U3 portable application's package format
 - XPI: Mozilla package format (addons for Firefox, Thunderbird etc)
 - MBR, FAT and NTFS filesystems
 - Various disk images
 - ISO standard disk image format
 - UDF widespread disk image format
 - Various executable file types
 - NSIS: Open Source Windows installer format
 - Some Windows executables
 - MSI Microsoft's proprietary installer format for Windows
 - Various (non-archive) compressed file formats, like
 - CAB compressed archive format
 - Compound
 - Some of MS Office formats: DOC, XLS, PPT
 - CHM, CHW, HXS compressed help files
 - WIM, SWM Windows image format
 - OpenOffice file types: container files for text, database, image and multimedia data: ods, ots, odb, odf, odg, otg, odp, otp, odt, ott, oth, odm, oxt.
 - Gnumeric .gnm files
 - SWF, FLV
 - Various Linux installer formats:
 - DEB (Debian based)
 - PET/PUP (Puppy Linux)
 - RPM (Redhat based)
 - SLP (Stampede Linux)
 - Various Macintosh formats: DMG/HFS package/disk image format

Through **PAQ/LPAQ**, Matt Mahoney et al. (GPL, Windows and Linux)

- Full support
 - PAQ80, ZPAQ, LPAQ8

- Read only
 - Older PAQ8 formats F/JD/L: experimental compressor; at cost of high computing time and memory usage provides best known compression ratio for most data structures
 - Older LPAQ1 and LPAQ5: lighter and faster version of PAQ, at the cost of some compression (single file compressor)

Through **Strip** (GNU binutils) and **UPX** (GPL Markus F.X.J. Oberhumer, László Molnár and John F. Reiser)

- Compression only
 - Strip strips symbols from executables and UPX apply compression: this allows containing the size of binaries of different types (exe, elf, etc...), which is important i.e. for distribute smaller packages; this feature is mainly oriented to developers.

Through Ilia Muraviev's **QUAD** (GPL) and **BALZ** (Public Domain)

- Full support
 - QUAD: high performance ROLZ-based compressor which features high compression ratio and fast decompression
 - BALZ: enhances overall performances compared to QUAD

Through Bulat Ziganshin's **FreeARC** (GPL)

- Full support
 - FreeArc's ARC/WRC, FreeArc's sfx: experimental archive format, featuring efficient compression (high ratio and good speed), and advanced features like strong encryption and recovery records

(SEPARATE PLUGIN)

Through UNACEV2.DLL 2.6.0.0 (Windows) and UNACE (Linux): royalty-free, Marcel Lemke, ACE Compression Software

- Browse/extract support
 - ACE: popular compression format, used mainly on Windows systems

Customisation and scripting

PeaZip portable doesn't need installation and doesn't modify the host system, however program's most used functions can be integrated, under Windows, in SendTo and context menu and, under Linux, in FreeDesktop-compliant desktop environments through .desktop files (Gnome, KDE...) and Nautilus scripts (Gnome); examples are in FreeDesktop_integration folder included in Linux packages.

In the same way it is possible to extend the integration automatically provided by installable packages, creating quick links in system's menus or in scripts for most of the program's internal functions.

PeaZip acts as a frontend for many Open Source archiving executables, each with its own syntax developed and maintained by respective third parts Authors, see "Supported formats" chapter for a comprehensive list of technologies employed in PeaZip.

For the syntax for each backend executable please refer to the original Authors and the original documentation (i.e. in 7-Zip's or FreeArc's documentation and websites), however one of the scopes of PeaZip is offering a simple and homogeneous command line interface to mask the complexity and the differences in command line syntax of underlying applications.

Quick access to most used PeaZip's functions is provided passing as first parameter a constant string value identifying the quick function; those methods can be used invoking PeaZip from scripts or also creating a link to PeaZip executable with the given first parameter (on any host system).

While through PeaZip's GUI it is possible to use underlying applications with great granularity (and save command lines for any further use), PeaZip itself is made accessible through command line to offer an easy access to most common functions.

The full list of strings accepted as quick link to PeaZip functions when passed as first parameter is:

- add2archive: add to a new archive and open PeaZip GUI to set archive's type and options;
- add2pea: add to a new .pea archive;
- add2crypt: add to a new encrypted .pea archive;
- add2split: raw split a single input file;
- add2wipe: securely delete selected file(s);
- add2compare: byte to byte compare two files;
- add27z: add to a new .7z archive;
- add27zmail: add to a new .7z archive and attach it to a mail (requires compatible mail client) *
- add2separate7z: add each input to a separate new .7z archive;
- add2sfx7z: add to a new self extracting 7z archive (.exe);

- add2sfx7zmail: add to a new self extracting archive and attach it to a mail (requires compatible mail client) *
- add2zip: add to a new .zip archive;
- add2zipmail: add to a new .zip archive and attach it to a mail (requires compatible mail client) *
- add2separatezip: add each input to a separate new .zip archive;
- ext2browse: open (and browse if applicable) the archive(s) in PeaZip GUI;
- ext2browsepath: browse the selected folder (or its path, if a file is selected) in PeaZip
- ext2here: extract archive(s) here;
- ext2folder: extract archive(s) here, each in a new folder named after the archive;
- ext2full: extract archive(s), allowing to specify i/o options, password and keyfile;
- ext2to: extract archive(s) to specified folder;
- ext2tofolder: extract archive(s) to specified folder, each in a new folder named after the archive;
- ext2list: list archive(s) content, to quickly look what is in the archive;
- ext2test: test archive(s) content;
- ext2main: extract archives from main applications "Archive extraction" interface;
- ext2commandprompt: open the command prompt in the selected folder (or in its path, if a file is selected)
- ext2openpwtest requires password as paramstr(2) (always delimited) and archive's full name as paramstr(3): try to list the archive and terminate with exit code 0 if archive is not encrypted, 1 if it is encrypted, 2 if it is non readable (corrupted or with encrypted file list), -1 if archive is not found.

**mail functions require a compatible mail client, like i.e. Outlook and Outlook Express, to be the default mail client of the system*

-add2archive, -ext2main and -ext2browse open the PeaZip GUI, to allow further user's interaction

Alternatively, on Windows platforms PeaZip can also send multiple input to a single instance through registry entries using temporary files; temp files are deleted automatically (otherwise the mechanism would not work) but in case of any kind of problem there is a reset switch in Options > Settings first tab to remove any possible leftover:

- add2multi works like -add2archive
- add2multi7z works like -add27z, but stays in the archiving interface until the user click "Ok" button; it can be modified in -add2multi7zfastest, *normal, or *ultra to directly set the compression to fastest, normal or ultra levels presets (the compression method used is the one defined by the user)
- add2multizip works like -add2zip, but stays in the archiving interface until the user click "Ok" button; likewise the previous switch it can be modified to *fastest, *normal, or *ultra compression level
- add2multisfx works like -add2sfx7z, but stays in the archiving interface until the user click "Ok" button
- ext2multi works like -ext2main

While the instance accepting files is open, it is possible to continue adding input from the same directory selecting objects and using context menu's entry, as an alternative to dragging the object to the application window that might be less handy if the desktop is crowded by windows.

An example of command line syntax may be: *peazip -add2zip file1 file2 directory3*

which will add specified objects (in the example file 1 and 2, and all content of directory 3) to a .zip archive, auto named after the 1st object (in this case will be named file1.zip and will be saved in the same path of file1); using -add27z instead of -add2zip will perform the same task but will result in a .7z archive (-add2pea will result in a .pea archive, -add2sfx7z will result in an self extracting executable and so on).

Another example may be: *peazip -ext2here archive1*

which will extract archive1 in the same path; using -ext2folder archive1 will be extracted to a new folder named "archive1" in the same path of archive1.

Translations

Lazarus development environment has migrated to UTF-8 for LCL (GUI-related libraries), see UTF-8 support status in [Lazarus](#) and PeaZip documentation, so the application's user interface can now be translated in any language.

Language files are UTF-8 encoded text files which can be edited using any suitable text editor.

To create a new translation file you can:

1. copy en.txt (in PeaZip's path in /res/lang subfolder) or any other language file, if you prefer starting from another language, to a new file;
2. edit lines 2 to 6 of the document to enter language name (both in English and in the original language for better readability), PeaZip's **version (major.minor) the translation is aimed to**, translator's and last last revisor's name and last revision date;
3. translate the text after the "variable_name: " part in "=== PeaZip text group ===" AND "=== PeaLauncher text group ===" sections of the file (don't move or remove lines, don't change the "variable_name: " part);
4. optionally, translate the mini-tutorial after "=== about text group ===" line (free editing, it is loaded and displayed "as is" as application's mini-tutorial).

In "[PeaZip translations](#)" download page, there is a package named `peazip-x.y.about_translations.zip` containing a spreadsheet file to help in creating and maintaining localizations, simply compiling column D of the spreadsheet.

The spreadsheet shows variable name (column B), corresponding text string in english (column C) and a blank, yellow column (D) for typing the translated text strings.

On the right, a column E (blue) will show the "variable_name: " part assembled with the translated string: the content of this area can be copied and paste to replace the text in "=== PeaZip text group ===" and "=== PeaLauncher text group ===" sections (the spreadsheet features TWO pages, one for each of the two groups).

Lines must be pasted in the original order (it is sufficient to sort them by column F).

After column F are featured all currently available translations, in order to help translators more proficient in other languages than English, and to help to spot out what localizations need to be updated.

At each version all language files are mass-updated, with missing text lines in English; to update a localization, it's enough to update the English text lines.

For a better result it is also recommended to check all the language file to see if the update is coherent with linguistic style used by the translator of the current version.

For languages spoken in different ways in different countries (i.e. English, Spanish, Portuguese...) it is recommended to fork the translation, creating i.e. `en-us`, `pt-br` etc

PeaZip can load out of order (not optimal for performances) language files for older or newer versions.

IMPORTANT: the spreadsheet contains 3 pages, "PeaZip text group", "PeaLauncher text group", and "About text group": all pages need to be completed and pasted (column E, for first two pages) in the language file; the "About text group" can be freely edited.

Translated language files can be sent to giorgio.tani.software@gmail.com, to be evaluated for inclusion in future updates or publication in <http://code.google.com/p/peazip-translations/>

All translated language files should be considered as released under GFDL, GNU Free Documentation License, as they have to be considered derivative work from the application's language file which is released under [GFDL](#).

Configuration, themes and bookmarks files, saved archive layouts, job logs and exported command lines are saved, for PeaZip 2.2 and beyond, as UTF-8 encoded text.

Older archive layouts (saved as ANSI text by previous versions of PeaZip) can still be used by PeaZip.

Notes

SendTo and context menu

Launching the program through links in SendTo, or any other link to the application, or through scripts, allows receiving multiple input arguments for each instance of the program, while entries in Windows' context menu, by design, can receive a single input argument for each instance.

PeaZip's Context Menu items can handle multiple input argument through a temporary files list, the temporary files are automatically deleted (otherwise the mechanism would not function), and in any case it is possible to force deleting them in Options > Settings > Reset `peazip-tmp` (or resetting PeaZip).

For a similar Windows' design choice, on pre-Windows 7 systems, program's entries in Windows context menu are not grouped in a submenu since it will involve much more complex approach than creating separate registry entries; registry method is now (for Windows 7 and later) recommended over the previous COM method.

SendTo menu are simple link files, they can be freely renamed, or have the icon changed, and can be copied or moved to one user to another as needed, they are located in `C:\Documents and Settings\{username}\SendTo` (Windows XP) or `C:\Users\{username}\AppData\Roaming\Microsoft\Windows\SendTo` (Vista/7), assuming C as system's disk.

All available SendTo links are featured in "SendTo" folder in PeaZip's path, more can be built using the switches explained in "Customisation and scripting".

Context menu entries are written in the registry; the exact location, different in 7 and previous systems, can be read in the InnoSetup scripts in "installer" dir of source package. They can be modified using a registry editor, but manually modifying registry is not generally recommended to users.

Creation of RAR archives

No free software application can create RAR archives, unless the operation is performed invoking WinRAR binary itself, because the RAR format is proprietary, moreover, the UnRAR license explicitly disallows to reverse engineering the file format definitions implemented to build functional RAR creation software.

With WinRAR installed you can use PeaZip's "Custom" archive type interface to use `rar.exe` to create RAR format archives through PeaZip's GUI: chose "Custom" format in compression dialog and the first time go to "Advanced" tab to tell PeaZip how to use the executable

1 - locate where the `rar.exe` executable is in your system, in "Executable" filed

2 - write a (which stands for create archive) in "Parameters" filed

3 - select the second entry in "Syntax" dropdown menu: "parameters, output, input"

Now any time you will select "Custom" format compression PeaZip will automatically use the syntax

`rar.exe a nameofthearchive nameoftheinputfiles`

Please note that `rar.exe` command line syntax is not a 1:1 replacement of WinRar features, especially worth of notice is that "a" command creates the archive storing full paths (and creation storing relative paths option is not even featured) while WinRar GUI application creates by default archives storing relative paths.

ACE archives

Unace may require to interactively respond to some warning messages extracting archives (i.e. if an object with this name jet exists in the output path), or to enter a password for handling an encrypted archive. If the console is not available for user's input (as when calling unace through gwrap executable), the feedback cannot be entered and the application would freeze waiting for feedback.

To avoid this possible stall situation unace extraction and test operations are always called in console mode by PeaZip, while listing operations, as for all other formats, are always launched in graphical mode of operation to offer better output information handling (and since naming conflict and password request conditions cannot be encountered in list mode).

To run test on ACE archive it's recommended to save the command line as text and then execute it as command line or as script, in order to don't get the console's window closed after the operation completes.

Please note that from PeaZip 1.9.1 the program's base packages contain only open source software, so handling ACE archives will require installing a separate plugin (see application's website) as described in "Plugin" chapter. Trying to open an ACE archive without the plugin installed will result in a message to remember the UNACE plugin is required.

Office, Open Office, MSI and EXE files

Files in those formats are actually containers from different resource objects which can be browsed and extracted by PeaZip.

However since those file types are more commonly archived rather than handled as archives themselves, PeaZip by default don't handle them as archives unless they are explicitly opened with "Open archive" function so double clicking on files of those types within PeaZip starts the associated application rather than opening them as archives.

UTF-8 support

From version 2.2 UTF-8 character encoding is supported, allowing to properly handle extended characters in filenames and to deploy localization of PeaZip's user interface text in any language.

It should be noted however that, at present level of development of Lazarus/FreePascal project, most of the underlying FreePascal file-handling routines are still ANSI-only, meaning the UTF-8 strings PeaZip uses internally still have to be translated to ANSI strings to be passed to some functions.

As PeaZip aims 1) to stay cross-platform and 2) to bridge the gap between GUI and console worlds, allowing to easily export jobs as command lines, UTF-8 support is utterly complicated because each system / desktop environment / widgetset PeaZip is ported to has different levels and ways of supporting UTF-8 encoding for different APIs, for system pipes, for command line interpreters etc.

This issue currently causes:

- PeaZip cannot browse files/dirs containing characters which are not featured in host system's character's set (they will be replaced by ? wildcard) due to the need of ANSI translation for strings passed to some FPC routines;
- decoding of names of archived objects containing extended characters, from version 3.0.1, is supported for file types handled using 7z/p7zip backend (using backend's -sccUTF-8 option). However in some cases, due to the archive format specifications, or to issues of the software used to create the archive being examined, or due to charset conversion problems between the source system and the target system that is reading the archive, the conversion of character in filenames inside the archive may fail anyway. Optionally extended characters can be set to be always replaced by jolly "?" character to avoid possible issues between archive's and system's character encodings on some special cases.

In any case the ability of operate (test, create, extract etc) on the whole archive is not affected by this issue

Compilation, build and porting

PeaZip, Pea and Gwrap are written in FreePascal (highly compatible with Delphi and ObjectPascal languages) and require [Lazarus IDE](#) to be compiled; Windows setup scripts (.iss files) are developed using Inno Setup.

To compile PeaZip binaries open the .lpi file of the desired binary (i.e. peach.lpi for peazip binary) and select "build all".

FreePascal supports multiple widgetsets (Win32, WinCE, GTK1, GTK2, Qt, Carbon, fpGUI) to allow compilation of GUI applications for the various supported systems and to create different "flavours" of the application for platforms supporting multiple widgetsets (i.e Linux).

PeaZip's sourcecode is cross platform, platform-specific code portions are contained in conditional compilations blocks.

Deploying the application to other targets than MSWINDOWS and LINUX may require adaptation of those platform specific areas (and possibly other fine-tunings); PC-BSD users successfully built PeaZip on *BSD platform.

PeaZip will also need various backend compression and archiving applications to be reachable in expected directories within the application's path, please refer to the structure of any of the precompiled packages, either installable or portable, to see what third parts binaries must be included, and refer to respective Authors for ports of those utilities.

Being PeaZip programmed as frontend/backend application, missing or unwanted backend binaries can be omitted, at the cost of losing the ability of handling supported formats; for the same reason, backend binaries can be freely replaced with 64 bit counterparts or with updated versions (which will work fine as long as they follow the same syntax).

PeaZip code should be fairly easy to port on Delphi and other Pascal dialects; the underlying [crypto library](#) is explicitly written to be portable to most or all Pascal dialects, however due to some ASM parts some of its features may be x86 processor specific.

From version 2.5 PeaLauncher was extended to be also a standalone extraction application; this could make porting easier at least for basic extraction features, since its user interface is more simpler than PeaZip's one.

Qt issues

Currently, Lazarus/FreePascal IDE support for Qt widgetset, on Linux platform, is marked as beta.

It means under some circumstances some unexpected behaviours may show; known issues are:

- In most cases, the drag and drop from system to the Qt version of the application will not work
- In some distribution Qt PeaZip will miss the close window icon; the application can be closed using File > Quit in main menu (Ctrl+Q keyboard shortcut)

Install/uninstall on Linux

On Linux systems, PeaZip installer automatically create menu entries for KDE (on most versions); to add PeaZip to Gnome menu copy the "Archiving" folder placed in PeaZip/FreeDesktop_integration/nautilus-scripts to system's Nautilus script's folder (in most versions open "Scripts" menu in system's context menu, and select "Open script's folder").

PeaZip is meant to be desktop independent as possible, so it is not limited to be used under KDE and Gnome, and does not require different packages to run on different desktop environments.

On PeaZip's official website are featured generic Linux packages, meant to be compatible with as many distributions and versions as possible, providing the system supports the widgetset (GTK2 * or Qt **) and the installer format, in example:

DEB ***: Debian, Ubuntu/Kubuntu, Knoppix, ...

RPM: Fedora, Mandriva, SUSE, Red Hat, ArkLinux, ...

TGZ: Slackware based.

TAR.GZ (PeaZip Portable) does not need to be installed, so it is the recommended package if you just want to test the application. It can be used on any Linux family extracting the package and running peazip binary in program's directory.

Third parts packages explicitly targeted to a specific distribution/version are listed on the download page below the official generic packages, those packages are highly recommended for best integration with a specific Linux distribution and version.

If a package does not run on a specific system please launch peazip binary on a console to get a more detailed error report.

* On some Linux distributions the GTK2 version may require to install some components of gtk/gdk libraries, like libgdk_pixbuf, those components are quite common and can be usually found in repositories of each distribution.

** Qt widgetset packages requires Qt 4.3.4 or more recent, and needs libqt4intl.so installed in /usr/local/lib or equivalent directory (copy the file and run ldconfig; it is done automatically in installable packages), such as /usr/lib or /usr/lib32 on some 64 bit distributions. A copy of libqt4intl.so is available in PeaZip's directory, ./usr/local/share/PeaZip/ for the installable packages.

*** DEB packages reports (all) for architecture check, so can be installed on 32 and 64 bit systems (providing that ia32 libs are available).

Note for third parts packagers: those packages can be transformed in i386 DEB if desired; i386 DEB can anyway be installed on 64 bit systems using dpkg -i --force-architecture

Please note that ia32-libs are required to run any 32 bit binary on 64 bit systems.

PeaZip binaries are currently compiled for 32 bit, you will need Lazarus/FPC if you want to compile them from sources.

All backend compression/extraction "engines" (pea, p7zip, *paq, freearc etc) are compiled for 32 bit, please refer to respective Authors for source packages (all are released under OSI approved Open Source licenses) if you want to recompile them.