

Zip

Welcome to 7-Zip 4.57!

7-Zip is a file archiver with a high compression ratio.

Additional documentation for 7-Zip includes:

- [General information about 7-Zip](#)
- [User's Guide for 7-Zip File Manager](#)
- [User's Guide for command line version](#)

See Also

- [How to register to 7-Zip](#)
- [Frequently Asked Questions \(FAQ\)](#)

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Web site: www.7-zip.org

Support: www.7-zip.org/support.html

Subscribe to news: <http://www.7-zip.org/subscribe.html>

Forum, bugs tracking: <http://sourceforge.net/projects/sevenzips/>

General Information

The main features of 7-Zip

- [Powerful file manager](#)
- [High compression ratio and high speed](#)
- [Big number of supported archive formats](#)
- [Additional command line version](#)

See Also

- [How to register 7-Zip](#)
- [License for use and distribution](#)

Supported formats

Format	Compressing	Decompressing	Filename Extensions
7z	X	X	7z
ZIP	X	X	zip
GZIP	X	X	gz gzip tgz
BZIP2	X	X	bz2 bzip2 tbz2 tbz
TAR	X	X	tar
RAR		X	rar
CAB		X	cab
ARJ		X	arj
Z		X	z taz
CPIO		X	cpio
RPM		X	rpm
DEB		X	deb
LZH		X	lzh lha
SPLIT		X	001 002 ...
CHM		X	chm chw hxs
ISO		X	iso
COMPOUND		X	msi doc xls ppt
WIM		X	wim swm
NSIS		X	exe



7-Zip creates fully ZIP compatible archives. Anyone can decompress these files by any ZIP compatible decompression utility. During compression 7-Zip can use one of the following ZIP compression methods:

- 0 - Store
- 8 - Deflate
- 9 - Deflate64
- 12 - BZip2

The current version of the 7-Zip can extract any files from ZIP archive that were compressed with one of the following methods:

- 0 - Store
- 1 - Shrink
- 6 - Implode
- 8 - Deflate
- 9 - Deflate64
- 12 - BZip2

Files compressed with other ZIP compression methods can't be extracted by the current version of the 7-Zip. But these supported methods are the most popular today, and therefore 7-Zip can decompress most ZIP archives. To extract files compressed with non-supported methods you must use some other ZIP utility.

7-Zip supports the Zip64 extension of ZIP format.

The current version of 7-Zip doesn't support Zip multivolume archives.

.H

7-Zip supports LZH archives only for listing, browsing and decompressing. 7-Zip supports -lh0-, -lh4-, -lh5-, -lh6- and -lh7- methods.

: Format

7z is a new archive format, providing a high compression ratio.

The main features of the **7z** format:

- Open architecture
- High compression ratio
- Strong AES-256 encryption
- Ability to use any compression, conversion or encryption method
- Supports files with sizes up to 16000000000 GB
- Unicode file names
- Solid compression
- Archive headers compression

7z has an open architecture, so it can support any new compression methods.

The following methods currently are integrated into **7z**:

Method	Description
LZMA	Improved and optimized version of LZ77 algorithm
PPMD	Dmitry Shkarin's PPMdH with small changes
BCJ	Converter for 32-bit x86 executables
BCJ2	Converter for 32-bit x86 executables
BZip2	Standard BWT algorithm
Deflate	Standard LZ77-based algorithm

LZMA is the default and general compression method of **7z** format. The main features of the **LZMA** method:

- High compression ratio
- Variable dictionary size (up to 4 GB)
- Compression speed: about 1 MB/s on 2 GHz CPU

- Decompression speed: about 10-20 MB/s on 2 GHz CPU
- Small memory requirement for decompression (depends from dictionary size)
- Small code size for decompression: about 5 KB
- Supports multi-threading and P4's hyper-threading

The **LZMA** compression algorithm is very suitable for embedded applications. If you want to use **LZMA** code, you can ask for consultation, custom code programming, and required developer licenses at

www.7-zip.org/support.html

7-Zip also supports encryption with the AES-256 algorithm. This algorithm uses a cipher key with length of 256 bits. To create the key, 7-Zip uses a derivation function based on an SHA-256 hash algorithm. A key derivation function produces a derived key from a text password defined by the user. To increase the cost of an exhaustive search for passwords, 7-Zip uses a big number of iterations to produce the cipher key from the text password.

ns for selecting password length

Here is an estimate of the time required for an exhaustive password search attack, when the password is a random sequence of lowercase Latin letters.

We suppose that one user can check 10 passwords per second and an organization with a budget of about \$1 billion can check 10 billion passwords per second. We also suppose that the processor in use doubles its performance every two years; so, each additional Latin letter of a long password adds about 9 years to an exhaustive key search attack.

The result is this estimate of the time to succeed in an attack:

Password Length Single User Attack Organization Attack

1	2 s	1 s
2	1 min	1 s
3	30 min	1 s
4	12 hours	1 s
5	14 days	1 s
6	1 year	1 s
7	10 years	1 s
8	19 years	20 s
9	26 years	9 min
10	37 years	4 hours
11	46 years	4 days
12	55 years	4 months
13	64 years	4 years
14	73 years	13 years
15	82 years	22 years
16	91 years	31 years
17	100 years	40 years

Performance

7z Format

Compression ratio results are very dependent upon the data used for the tests. We compared 7-Zip with some of the leading commercial archivers: PKZIP 2.04g, WinZip 7.0.

FILE SET: The Canterbury Corpus (11 files totaling 2,810,784 bytes, popular file set used to compression rates).

Archiver	Compressed size	Ratio
7-Zip (zip format)	676284	100%
PKZIP 2.04g -ex	726047	107%
WinZip 7.0 (Max)	731499	108%

7z Format

7z is the new archive format, providing a high compression ratio.

FILE SET: The GIMP 1.2.4 for Windows after full installation (127 subfolders, 1304 files totaling 27,128,826 bytes). The GIMP is the GNU Image Manipulation Program. It can be downloaded from www.gimp.org.

Archiver	Compressed size	Ratio
7-Zip (7z format)	5445402	100%
WinRAR 3.10	6004155	110%
WinAce 2.3	6242424	115%
CABARC 1.0	6455327	119%
7-Zip (zip format)	9461621	174%
PKZIP 2.50	9842800	181%

.ZIP Format

7-Zip provides the best compression ratio for GZIP format. The compression ratio is equal to its compression ratio for ZIP format (above).

.RAR Format

7-Zip provides superior decompression speed for RAR archives. For solid archives it decompresses only the minimum number of files needed. For example, consider a solid archive **archive.rar** containing 100000 files created by the command:

```
rar a archive.rar -s100 * -r
```

In this solid archive, each group of 100 files is compressed as one big file. To extract one file from that archive, 7-Zip will decompress (in memory) only some files from one group. As a result, 7-Zip can provide the combined advantages of solid compression and high speed of decompression.

Frequently Asked Questions (FAQ)

Can I use 7-Zip in a commercial organization?

Yes, 7-Zip is free software. You can use it on any computer. You don't need to register or pay for 7-Zip.

Why doesn't the command line version add files that do not have any extension?

You probably used a *.* wildcard. 7-Zip doesn't use the Windows system wildcard parser; so, 7-Zip doesn't follow the archaic rule by which *.* matches every file name. 7-Zip treats *.* as matching only a file name with an extension. To process all files, you must use a * wildcard or just omit the wildcard entirely.

Why doesn't adding, deleting or updating an existing archive work?

The current version of 7-Zip cannot change an archive created with the solid option switched on. To update a .7z archive you must create and update the archive in non-solid mode (-ms=off switch)

What about support for ACE archives?

Support for ACE can be implemented, if the source code of that format is made available, and if the source code license will allow using that code.

cense

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Licenses for files are:

- 7z.dll: GNU LGPL + unRAR restriction
- All other files: GNU LGPL

The GNU LGPL + unRAR restriction means that you must follow both GNU LGPL rules and unRAR restriction rules.

Note: You can use 7-Zip on any computer, including a computer in a commercial organization. You don't need to register or pay for 7-Zip.

Read file License.txt for full information about license.

Register 7-Zip

7-Zip is free software. However, you can support development of 7-Zip by registering.

You can find all information about registering at:

<http://www.7-zip.org/register.html>

Thank you very much in advance!

anks

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- Welsh - Owain Lewis

Zip File Manager

The 7-Zip File Manager is a program for manipulating files and folders.

The 7-Zip File Manager can work with two panels. You can switch between panels by pressing the Tab button. Most of the operations can be executed using keyboard shortcuts or by right-clicking on items and selecting the appropriate command from menu.

This Section

[Menu Items and Shortcut Keys](#)

Describes the menu items and keyboard shortcut.

[Options Dialog Box](#)

Describes what settings you can change that affect the 7-Zip File Manager.

[Benchmark](#)

Describes a 7-Zip Benchmark for measuring CPU performance.

[About Dialog Box](#)

Provides information about 7-Zip.

[Plugins](#)

Describes plugins for the 7-Zip File Manager.

ptions Dialog Box

You can change many of the settings that affect the 7-Zip File Manager in the Options dialog box. To access this dialog box select Options from the Tools menu.

The options dialog box contains the following pages:

- [System Page](#)
- [Plugins Page](#)
- [Editor Page](#)
- [Settings Page](#)
- [Language Page](#)

System Page

Allows you to specify the behavior of 7-Zip in the filing system.

Associate 7-Zip with

Lists the file name extensions and associated plugins that are currently registered with 7-Zip. If file name extension is checked, 7-Zip will be used to open file with that extension. In any case you can always open all archives with 7-Zip via your right-click context menu.

Plugins Page

Allows you to specify settings for the installed plugins.

Plugins

Lists the plugins. For modifying settings of plugins, you must select the plugin and press the Options button.

Editor Page

Allows you to specify settings for the editor.

Editor

Specifies the path to the editor.

Settings Page

Allows you to specify some settings.

Show .. item

Shows .. item in file list.

Show real file icons

Shows real file icons in file list. If this option is enabled, listing updates can be slower.

Show system menu

Shows a system context sub-menu in the File menu.

Full row select

When an item is selected, the item and all its subitems are highlighted.

Show grid lines

Displays gridlines around items and subitems.

Alternative selection mode

If enabled, File Manager keeps selection mark when you move cursor.

Use large memory pages

If enabled, 7-Zip will try to use large pages. This feature allows an increase in speed of compression. This may cause 7-Zip to pause when starting compression, because of allocation of the large pages. Also, the Windows Task Manager doesn't show the real memory usage of the program, if 7-Zip uses large pages. This feature works only on Windows 2003 / XP x64 / Vista. Also you must have administrator's rights for your system. Recommended size of RAM: 1 GB or more. To install this feature you must run 7-Zip File Manager at least once, close it and reboot the system.

Language Page

Allows you to change the default language.

Language

Lists the available languages.

enchmark

This form allows you to measure the performance of your computer.

There are two tests:

1. Compression with LZMA method
2. Decompression with LZMA method

The benchmark shows a rating in MIPS (million instructions per second). The rating value is calculated from the measured speed, and it is normalized to an Intel Core 2 Duo E6600 (2.4 GHz, 4 MB L2) CPU in 64-bit Windows with multi-threading option switched off. So if you have Intel Core 2 Duo, rating values must be close to real CPU frequency.

You can change the dictionary size to increase memory usage. Also you can change the number of threads.

The **CPU Usage** column shows the percentage of time the processor is working. It's normalized for a one-thread load. For example, 180% CPU Usage for 2 threads can mean that average CPU usage is about 90% for each thread.

The **Rating / Usage** column shows rating normalized for 100% of CPU usage. That column shows performance of the one CPU thread.

The **Total rating** shows averages of the compressing and decompression ratings.

Compression speed and rating strongly depend from memory (RAM) latency.

Decompression speed and rating strongly depend on CPU integer operations. For example, an Intel Pentium 4 has big branch misprediction penalty (which is effect of long pipeline) and pretty slow multiply and shift operations. So, the Pentium 4 has pretty low decompressing ratings.

Also the program checks possible errors. If the program shows some error message, in most cases it means that your RAM is defective. If so, don't use 7-Zip for compressing data, since such errors can lead to data losses.

About Dialog Box

The About dialog box provides information about 7-Zip and allows you to register 7-Zip. This dialog box is available from the Help menu.

- Press **www.7-zip.org** button for opening 7-Zip Home Page.
- Press **Register** button to register 7-Zip.

See also [Register 7-Zip](#) for more details how to register 7-Zip.

ugins

The 7-Zip File Manager can use internal and external plugins.

Currently 7-Zip uses the following plugins:

7-Zip

Plugin for manipulating archives.

Zip Plugin

7-Zip is a plugin for manipulating archives. It makes all archive files look like usual folders in File Manager.

Most of the operations with compressed files can be initiated by right-clicking on files in the File Manager (or in Windows Explorer) and selecting the appropriate command from a menu.

ing 7-Zip

Opening archive

There are two ways to open an archive file:

- If you have the file type associated with 7-Zip, then you can open the file with 7-Zip by double-clicking the file or by right-clicking and selecting the **Open** command.
- You can right-click the archive file, point to **7-Zip**, and then click the **Open** command item.

Extracting archive

There are two ways to extract files from an archive:

- To extract all files from an archive right-click the archive file, point to **7-Zip**, and then click the **Extract files...** command item.
- To extract specific files from an archive, open it by [Open archive with 7-Zip](#), select the items to extract, and run the **Copy To...** command.

[Extract Dialog](#) will appear.

Testing archive

To test an archive, right-click the archive file, point to **7-Zip**, and then click the **Test archive** command item.

Creating and updating files in an archive

For creating or updating an archive file, right-click the file(s) or folder(s) you want to compress, point to **7-Zip**, and then click the **Add to archive...** command item. [Add to Archive Dialog](#) will appear.

Add to Archive Dialog Box

Allows you to specify options for creating or updating an archive.

How to call this dialog box

1. In Windows Explorer or in 7-Zip, right-click the file(s) or folder(s) you want to compress.
2. Point to **7-Zip**, and then click the **Add to archive...** command item.

Parameters

Archive

Provides a space for you to specify a destination archive name. You can click "..." button to display "Open" dialog box that you can use to locate archive.

Archive format

Specifies a format of created archive. Some formats (gzip and bzip2) do not support compressing more than one file per archive.

Compression level

Specifies compression level. There are 6 levels of compression:

Value	Meaning
Store	Files will be copied to archive without compression.
Fastest	Fastest compression.
Fast	Fast compression.
Normal	Compression with balanced settings.
Maximum	Can give a higher compression ratio than Normal level. But it can be slower, and it can require more memory.
Ultra	Can give a higher compression ratio than Maximum level. But it can be slower, and it can require more memory.

Compression method

Specifies compression method. Each archive format can have its own compression methods:

Method	Description
LZMA	Default compression method of 7z format. It provides high compression ratio and very fast decompression.
PPMd	Dmitry Shkarin's PPMdH algorithm with small changes. Usually it provides high compression ratio and high speed for text files.
BZip2	Standard compression method based on BWT algorithm. Usually it provides high speed and pretty good compression ratio for text files.
Deflate	Standard compression method of ZIP and GZip formats. Compression ratio is not too high. But it provides pretty fast compressing and decompressing. Deflate method supports only 32 KB dictionary.
Deflate64	Modified version of Deflate algorithm with bigger dictionary (64KB).

Estimated 7-Zip performance and memory requirements for AMD Athlon 64 X2 3800+:

Method	Level	Dictionary Size	Compressing Speed	Decompressing Speed	Mem Comp
LZMA	fastest	64 KB	4.5 MB/s		3 MB
	fast	1 MB	3 MB/s		10 MB
	normal	16 MB	2 MB/s	15 MB/s	186 MB
	maximum	32 MB	1.8 MB/s		376 MB
	ultra	64 MB	1.6 MB/s		709 MB
PPMD	fast	4 MB	1.4 MB/s		6 MB
	normal	24MB	1.2 MB/s		26 MB
	maximum	64 MB	1.0 MB/s		66 MB
	ultra	192 MB	0.9 MB/s		194 MB
Deflate	fast		15 MB/s		3 MB
	normal	32 KB	3.5 MB/s	40 MB/s	
	maximum		1.5 MB/s		
	ultra		0.4 MB/s		4MB

	normal	3 MB/s		
BZip2	maximum 900 KB	1.2 MB/s	16 MB/s	20 MB
	ultra	0.4 MB/s		

Dictionary size

Specifies Dictionary size for compression method.

Usually, a higher Dictionary size gives a higher compression ratio. But compressing can be slower and it can require more memory.

Memory (RAM) usage for LZMA compressing is about 11 times more than dictionary size. Memory usage for LZMA decompressing is close to value of dictionary size. Memory usage for PPMd compressing and decompressing is almost equal to dictionary size.

Word size

Specifies the length of words, which will be used to find identical sequences of bytes for compression.

Usually for LZMA and Deflate, big Word size gives a little bit better compression ratio and slower compression process. A big Word size parameter can significantly increase compression ratio for files which contain long identical sequences of bytes. For PPMd, the Word size strongly affects both compression ratio and compression/decompression speed.

Solid Block size

Specifies the size of a solid block. You can also disable solid mode. In solid mode all files will be compressed as continuous data blocks. Usually compressing to a solid archive improves the compression ratio. You can use this option only for 7z archives. With the current version of 7z, you can update existing archives only when solid mode is switched off and the existing archive is non-solid.

Number of CPU threads

Specifies the number of threads for compressing. A big number of threads can speed up compression speed on Multi-Processor systems. Sometimes it can increase speed even on single-core CPU.

Split to volumes

{Size}[b | k | m | g]

Specifies volume sizes in Bytes, Kilobytes (1 Kilobyte = 1024 bytes), Megabytes (1 Megabyte = 1024 Kilobytes) or Gigabytes (1 Gigabyte = 1024 Megabytes). If you specify only {Size}, 7-zip will treat it as bytes. It's possible to specify several values. Example:

10k 15k 2m

The first volume will be 10 KB, the second will be 15 KB, and all others will be 2 MB.

Parameters

Allows you to specify parameters for compression. See the [-m \(Method\)](#) switch description for more details. Omit the -m prefix (as in -m switch) when using this dialog box.

Examples

0=PPMd

uses PPMd method for compressing files.

0=bcj2 1=lzma:d23 2=lzma 3=lzma b0:1 b0s1:2 b0s2:3

uses BCJ2 filter (for x86 executables) and LZMA.

Update mode

Specifies update mode:

Value	Meaning
Add and replace files	Add all specified files to the archive.
Update and add files	Update older files in the archive and add files that are new to the archive.
Freshen existing files	Update specified files in the archive that are older than the selected disk files.
	Replace specified files only if added files are

Synchronize files newer. Always add those files, which are not present in the archive. Delete from archive those files, which are not present on the disk.

Options

Specifies compression options:

Option	Meaning
Create SFX archive	Create self-extracting archive. You can use this option only for 7z archives. Look to -sfx (Create SFX archive) switch description for more details about SFX modules.
Compress shared files	Compress files open for writing by another applications.

Encryption

Specifies password and encryption options.

Enter password

Specify password here

Reenter password

Reenter password here for verification

Show Password

Shows Password

Encryption method

Specifies the encryption method. For 7z format, it can be only AES-256. For ZIP format you can select ZipCrypto or AES-256. Use ZipCrypto, if you want to get archive compatible with most of the ZIP archivers. AES-256 provides stronger encryption, but now AES-256 is supported only by 7-Zip, WinZip and some other ZIP archivers.

Encrypt file names

Enables or disables archive header encryption, including file name encryption.

Extract Dialog Box

Allows you to specify options for extracting files from archive.

How to run this dialog box

There are two ways to run this dialog

- To extract all files from an archive:
 - a. In Windows Explorer or in 7-Zip, right-click the archive file.
 - b. Point to **7-Zip**, and then click **Extract files....**
- To extract specified files from an archive opened in the browsing window:
 - a. Open archive with 7-Zip.
 - b. Select items to extract.
 - c. Right-click items and then click **Copy To....**

Parameters

Extract to

Provides a space for you to specify an output folder. You can click "..." button to display "Browse for folder" dialog box that you can use to locate output folder.

Path mode

Specify extract mode:

Value	Meaning
Full pathnames	Extract files with full pathnames.
Current pathnames	Extract files with all relative paths.
No pathnames	Extract files without folder paths.

Overwrite mode

Specify overwrite mode for files that already present on disk:

Value	Meaning
Ask before overwrite	Ask before overwriting existing files.
Overwrite without prompt	Overwrite existing files without prompt.
Skip existing files	Skip extracting of existing files.
Auto rename	Rename extracted files, if a file with the same name already exists. For example, file document.txt will be renamed to document_1.txt.

Files

Specifies files for extracting:

Value	Meaning
Selected files	Extract only files that are selected in the main window.
All files	Extract all files.

Password

Specifies a password for encrypted archives.

Zip Options Dialog Box

You can change many of the settings that affect the 7-Zip Plugin in the 7-Zip Options Dialog Box. To access this dialog box, select Options from the Tools menu, then select the Plugins Page, select 7-Zip plugin, and press Options.

The options dialog box contains the following pages:

- [System Page](#)
- [Folders Page](#)

System Page

Allows you to specify behavior of 7-Zip in Windows Shell.

Integrate 7-Zip to shell context menu

Select this check box to add 7-Zip commands to Shell Context Menu.

Cascaded context menu

Select this check box to group 7-Zip context menu items to one **7-Zip** submenu.

Context menu items

Lists the optional context menu items. If an item is checked, 7-Zip will add this item to the context menu.

Folders Page

Allows you to set the folders which 7-Zip will use for internal purposes.

Working folder

The working folder section allows you to specify a folder which will be used for temporary archive files:

System temp folder

7-Zip will use the Windows temp folder.

Current

7-Zip will use the folder containing the target archive.

Specified

7-Zip will use the folder specified in the following edit control.

Use for removable drives only

Specifies whether 7-Zip should use the specified folder settings only for removable drives; for other drives, 7-Zip will create temporary archives in the folder containing the target archive. If you clear this check box, 7-Zip always will use the specified folder settings mode always.

7-Zip uses temporary archive files for all update operations. So, for speed reasons, it is recommended that you select the **System temp folder** option and select **Use for removable drives only** check box.

Command Line Version User's Guide

7z.exe is the command line version of 7-Zip. 7z.exe uses 7z.dll from the 7-Zip package. 7z.dll is used by the 7-Zip File Manager also.

7za.exe (a = alone) is a standalone version of 7-Zip. 7za.exe supports only 7z, cab, zip, gzip, bzip2, Z and tar formats. 7za.exe doesn't use external modules.

- [Command Line syntax](#)
- [Exit Codes](#)
- [Commands](#)
- [Switches](#)

Command Line Syntax

```
7z <command> [<switch>...] <base_archive_name> [<arguments>...]  
<arguments> ::= <switch> | <wildcard> | <filename> | <list_file>  
<switch> ::= <switch_symbol><switch_characters>[<option>]  
<switch_symbol> ::= '/' | '-'  
<list_file> ::= @{filename}
```

Expressions in square brackets (between '[' and ']') are optional.

Expressions in curly braces ('{' and '}') mean that instead of that Expression (including braces), the user must substitute some string.

Expression

```
expression1 | expression2 | ... | expressionN
```

means that any (but only one) from these expressions must be specified.

[Commands](#) and [switches](#) can be entered in upper or lower case.

Command is the first non-switch argument.

The "base_archive_name" must be the first filename on the command line after the command.

The switches and other filenames can be in any order.

Wildcards or filenames with spaces must be quoted:

```
"Dir\Program files\*"
Dir "\"Program files\""
```

Switch options can be combined to save command line length. However, some switch options take optional string arguments and therefore, must be the last option in a combined argument token string because 7-Zip accepts the rest of the argument token as the optional argument.

7-Zip uses wild name matching similar to Windows 95:

- '*' means a sequence of arbitrary characters.
- '?' means any character.

7-Zip doesn't use the system wildcard parser. 7-Zip doesn't follow the

archaic rule by which *.* means any file. 7-Zip treats *.* as matching the name of any file that has an extension. To process all files, you must use a * wildcard.

Examples:

*.txt means all files with an extension of ".txt"

?a* means all files with a second character of "a"

1 means all names that contains character "1"

..* means all names that contain two "." means characters

The default wildcard "*" will be used if there is no filename/wildcard in the command line.

Slash ('\') at the end of a path means a directory. Without a Slash ('\') at the end of the path, the path can refer either to a file or a directory.

st file

You can supply one or more filenames or wildcards for special list files (files containing lists of files). The filenames in such list file must be separated by new line symbol(s).

For list files, 7-Zip uses UTF-8 encoding by default. You can change encoding using [-SCS](#) switch.

Multiple list files are supported.

For example, if the file "listfile.txt" contains the following:

```
My programs\*.cpp  
Src\*.cpp
```

then the command

```
7z a -tzip archive.zip @listfile.txt
```

adds to the archive "archive.zip" all "*.cpp" files from directories "My programs" and "Src".

Short and Long File Names

7-Zip supports short file names (like FILENA~1.TXT) in some cases. However, it's strongly recommended to use only the real (long) file names.

Exit Codes from 7-Zip

7-Zip returns the following exit codes:

Code	Meaning
0	No error
1	Warning (Non fatal error(s)). For example, one or more files were locked by some other application, so they were not compressed.
2	Fatal error
7	Command line error
8	Not enough memory for operation
255	User stopped the process

Command Line Commands

The command is the first non-switch argument on the command line.

Command names are not case sensitive.

See also [Command Line Syntax](#) for more details about using the command line.

Commands quick reference

Command	Description
a	Add
b	Benchmark
d	Delete
e	Extract
l	List
t	Test
u	Update
x	eXtract with full paths

(Add) command

Adds files to archive.

amples

```
7z a -tzip archive.zip subdir\
```

adds all files and subfolders from folder subdir to archive archive.zip.

```
7z a -t7z Files.7z *.txt -r
```

adds all *.txt files from current folder and its subfolders to archive Files.7z.

itches that can be used with this command

[-i \(Include\)](#) [-m \(Method\)](#)

[-p \(Set Password\)](#)

[-r \(Recurse\)](#)

[-sfx \(create SFX\)](#)

[-si \(use StdIn\)](#)

[-so \(use StdOut\)](#)

[-ssw \(Compress shared files\)](#)

[-t \(Type of archive\)](#)

[-u \(Update\)](#)

[-v \(Volumes\)](#)

[-w \(Working Dir\)](#)

[-x \(Exclude\)](#)

e also

Commands: [d \(Delete\)](#), [u \(Update\)](#)

Switches: [-u \(Update\)](#)

(Benchmark) command

Measures speed of the CPU and checks RAM for errors.

ntax

```
b [number_of_iterations] [-mmt{N}] [-md{N}] [-mm={Method}]
```

There are two tests:

1. Compressing with LZMA method
2. Decompressing with LZMA method

The benchmark shows a rating in MIPS (million instructions per second). The rating value is calculated from the measured CPU speed and it is normalized with Intel Core 2 Duo E6600 (2.4 GHz, 4 MB L2) CPU in 64-bit Windows with multi-threading option switched off. So if you have Intel Core 2 Duo, rating values must be close to real CPU frequency.

You can change the upper dictionary size to increase memory usage by `-md{N}` switch. Also, you can change the number of threads by `-mmt{N}` switch.

The **Dict** column shows dictionary size. For example, 21 means $2^{21} = 2$ MB.

The **Usage** column shows the percentage of time the processor is working. It's normalized for a one-thread load. For example, 180% CPU Usage for 2 threads can mean that average CPU usage is about 90% for each thread.

The **R / U** column shows the rating normalized for 100% of CPU usage. That column shows the performance of one average CPU thread.

Avr shows averages for different dictionary sizes.

Tot shows averages of the compression and decompression ratings.

Compression speed and rating strongly depend on memory (RAM) latency.

Decompression speed and rating strongly depend on the integer

performance of the CPU. For example, the Intel Pentium 4 has big branch misprediction penalty (which is an effect of its long pipeline) and pretty slow multiply and shift operations. So, the Pentium 4 has pretty low decompressing ratings.

You can run a CRC calculation benchmark by specifying `-mm=crc`. That test shows the speed of CRC calculation in MB/s. The first column shows the size of the block. The next column shows the speed of CRC calculation for one thread. The other columns are results for multi-threaded CRC calculation.

amples

```
7z b
```

runs benchmarking.

```
7z b -mmt1 -md26
```

runs benchmarking with one thread and 64 MB dictionary.

```
7z b 30
```

runs benchmarking with default settings for 30 iterations.

(Delete) command

Deletes files from archive.

ample

```
7z d archive.zip *.bak -r
```

deletes *.bak files from archive archive.zip.

itches that can be used with this command

[-i \(Include\)](#) [-m \(Method\)](#)

[-p \(Set Password\)](#)

[-r \(Recurse\)](#)

[-u \(Update\)](#)

[-w \(Working Dir\)](#)

[-x \(Exclude\)](#)

e also

Commands: [a \(Add\)](#), [u \(Update\)](#)

Switches: [-u \(Update\)](#)

(Extract) command

Extracts files from an archive to the current directory or to the output directory. The output directory can be specified by [-o \(Set Output Directory\)](#) switch.

This command copies all extracted files to one directory. If you want extract files with full paths, you must use [x \(Extract with full paths\)](#) command.

7-Zip will prompt the user before overwriting existing files unless the user specifies the [-y \(Assume Yes on all queries\)](#) switch. If the user gives a **no** answer, 7-Zip will prompt for the file to be extracted to a new filename. Then a **no** answer skips that file; or, **yes** prompts for new filename.

7-Zip accepts the following responses:

Answer	Abbr.	Action
Yes	y	
No	n	
Always	a	Assume YES for ALL subsequent queries of the same class
Skip	s	Assume NO for ALL subsequent queries of the same class
Quit	q	Quit the program

Abbreviated responses are allowed.

amples

```
7z e archive.zip
```

extracts all files from archive archive.zip to the current directory.

```
7z e archive.zip -oc:\soft *.cpp -r
```

extracts all *.cpp files from archive archive.zip to c:\soft folder.

itches that can be used with this command

-ai (Include archives) -an (Disable parsing of archive_name)
-ao (Overwrite mode)
-ax (Exclude archives)
-i (Include)
-o (Set Output Directory)
-p (Set Password)
-r (Recurse)
-so (use StdOut)
-x (Exclude)
-y (Assume Yes on all queries)

e also

Commands: x (Extract with full paths)

List contents of archive) command

Lists contents of archive.

amples

```
7z l archive.zip
```

lists all files from archive archive.zip.

itches that can be used with this command

[-ai \(Include archives\)](#) [-an \(Disable parsing of archive_name\)](#)

[-ax \(Exclude archives\)](#)

[-i \(Include\)](#)

[-slt \(Show technical information\)](#)

[-p \(Set Password\)](#)

[-r \(Recurse\)](#)

[-x \(Exclude\)](#)

Test integrity of archive) command

Tests archive files.

ample

```
7z t archive.zip *.doc -r
```

tests *.doc files in archive archive.zip.

itches that can be used with this command

[-ai \(Include archives\)](#) [-an \(Disable parsing of archive_name\)](#)

[-ax \(Exclude archives\)](#)

[-i \(Include\)](#)

[-p \(Set Password\)](#)

[-r \(Recurse\)](#)

[-x \(Exclude\)](#)

(Update) command

Update older files in the archive and add files that are not already in the archive.

Note: The current version of 7-Zip cannot change an archive which was created with the solid option switched on. To update a .7z archive you must create and update that archive only in non-solid mode (-ms=off switch).

ample

```
7z u archive.zip *.doc
```

updates *.doc files to archive archive.zip.

itches that can be used with this command

- [-i \(Include\)](#)
- [-m \(Method\)](#)
- [-p \(Set Password\)](#)
- [-r \(Recurse\)](#)
- [-sfx \(create SFX\)](#)
- [-si \(use StdIn\)](#)
- [-so \(use StdOut\)](#)
- [-ssw \(Compress shared files\)](#)
- [-t \(Type of archive\)](#)
- [-u \(Update\)](#)
- [-w \(Working Dir\)](#)
- [-x \(Exclude\)](#)

e also

Commands: [a \(Add\)](#), [d \(Delete\)](#),

Switches: [-u \(Update\)](#)

(Extract with full paths) command

Extracts files from an archive with their full paths in the current directory, or in an output directory if specified.

See the [e \(Extract\)](#) command description for more details.

amples

```
7z x archive.zip
```

extracts all files from the archive archive.zip to the current directory.

```
7z x archive.zip -oc:\soft *.cpp -r
```

extracts all *.cpp files from the archive archive.zip to c:\soft folder.

itches that can be used with this command

[-ai \(Include archives\)](#) [-an \(Disable parsing of archive_name\)](#)

[-ao \(Overwrite mode\)](#)

[-ax \(Exclude archives\)](#)

[-i \(Include\)](#)

[-o \(Set Output Directory\)](#)

[-p \(Set Password\)](#)

[-r \(Recurse\)](#)

[-so \(use StdOut\)](#)

[-x \(Exclude\)](#)

[-y \(Assume Yes on all queries\)](#)

e also

Commands: [e \(Extract\)](#)

Command Line Switches

Syntax

```
<switch;> ::= <switch_symbol><switch_characters>[<option>]  
<switch_symbol> ::= '/' | '-'
```

On the command line, a switch consists of a switch specifier, either a dash (-) or a forward slash (/), followed by the name of the switch. Switch names cannot be abbreviated.

Some switches take an argument after the switch name. No spaces or tabs are allowed within a switch specification. Switch names are not case sensitive, but arguments can be case sensitive.

Switch can be used in any place in command line.

See also [Command Line Syntax](#) for more details about using the command line.

7itch quick reference

Switch	Description
--	Stop switches parsing
-ai	Include archive filenames
-an	Disable parsing of archive_name
-ao	Overwrite mode
-ax	Exclude archive filenames
-i	Include filenames
-m	Set Compression Method
-o	Set Output directory
-p	Set Password
-r	Recurse subdirectories
-scs	Set charset for list files
-seml	Send archive by email
-slp	Set Large Pages mode
-slt	Show technical information
-sfx	Create SFX archive
-si	Read data from StdIn
-so	Write data to StdOut
-ssc	Set Sensitive Case mode
-ssw	Compress files open for writing
-t	Type of archive
-u	Update options
-v	Create Volumes
-w	Set Working directory
-x	Exclude filenames
-y	Assume Yes on all queries

(Stop switches parsing) switch

Disables switch parsing after "--" on the command line. This is to allow 7-Zip to use file names that start with "-".

ntax

--

amples

```
7z t -- -ArchiveName.7z
```

```
tests -ArchiveName.7z archive.
```

i (Include archive filenames) switch

Specifies additional include archive filenames and wildcards.

Multiple include switches are supported.

ntax

```
-ai[<recurse_type>]<file_ref>
```

```
<recurse_type> ::= r[- | 0]
```

```
<file_ref> ::= @{listfile} | !{wildcard}
```

Parameters

<recurse_type>

Specifies how wildcards and file names in this switch must be used. If this option is not given, recursion will be not used. For more details see specification of the [-r \(Recurse\)](#) switch.

```
<recurse_type> ::= r[- | 0]
```

<file_ref>

Specifies filenames and wildcards or list file that specify processed files.

```
<file_ref> ::= @{listfile} | !{wildcard}
```

Option	Description
{listfile}	Specifies name of list file. See List file description.
{wildcard}	Specifies wildcard or filename.

Examples

```
7z t -an -air!*.7z
```

tests *.7z archives in current directory and all it's subdirectories.

Commands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [e \(Extract\)](#), [l \(List\)](#), [t \(Test\)](#), [u \(Update\)](#), [x \(Extract with full paths\)](#)

e also

Switches: [-ax \(Exclude archives\)](#) [-an \(Disable parsing of archive_name\)](#)

n (Disable parsing of archive_name) switch

Disables parsing of the archive_name field on the command line. This switch must be used with the [-ai \(Include archives\) switch](#). If you use a file list for your archives, you specify it with the -ai switch, so you need to disable parsing of archive_name field from command line.

ntax

-an

amples

```
7z t -an -ai!* .7z -ax!a* .7z
```

tests all *.7z archives, except a*.7z archives.

mmands that can be used with this switch

[e \(Extract\)](#), [l \(List\)](#), [t \(Test\)](#), [x \(Extract with full paths\)](#)

e also

Switches: [-ai \(Include archives\)](#) [-ax \(Exclude archives\)](#)

o (Overwrite mode) switch

Specifies the overwrite mode during extraction, to overwrite files already present on disk.

ntax

-ao[a | s | t | u]

Switch	Description
-aoa	Overwrite All existing files without prompt.
-aos	Skip extracting of existing files.
-aou	aUto rename extracting file (for example, name.txt will be renamed to name_1.txt).
-aot	auto rename existing file (for example, name.txt will be renamed to name_1.txt).

amples

```
7z x test.zip -aoa
```

extracts all files from test.zip archive and overwrites existing files without any prompt.

mmands that can be used with this switch

[e \(Extract\)](#), [x \(Extract with full paths\)](#)

e also

Switches: [-y \(assume Yes on all queries\)](#),

x (Exclude archive filenames) switch

Specifies archives to be excluded from the operation.

Multiple exclude archive switches are supported.

ntax

```
-ax[<recurse_type>]<file_ref>
```

```
<recurse_type> ::= r[- | 0]
```

```
<file_ref> ::= @{listfile} | !{wildcard}
```

See [-xi \(Include archive filenames\)](#) switch description for information about option parameters.

amples

```
7z t -an -ai!* .7z -ax!a* .7z
```

tests all *.7z archives, except a*.7z archives.

mmands that can be used with this switch

[e \(Extract\)](#), [l \(List\)](#), [t \(Test\)](#), [x \(Extract with full paths\)](#)

e also

Switches: [-ai \(Include archives\)](#) [-an \(Disable parsing of archive_name\)](#)

(Include filenames) switch

Specifies additional include filenames and wildcards.

Multiple include switches are supported.

ntax

```
-i[<recurse_type>]<file_ref>
```

```
<recurse_type> ::= r[- | 0]
```

```
<file_ref> ::= @{listfile} | !{wildcard}
```

Parameters

<recurse_type>

Specifies how wildcards and file names in this switch must be used. If this option is not given, then the global value, assigned by the [-r \(Recurse\)](#) switch will be used. For more details see specification of the [-r \(Recurse\)](#) switch.

```
<recurse_type> ::= r[- | 0]
```

<file_ref>

Specifies filenames and wildcards, or a list file, for files to be processed.

```
<file_ref> ::= @{listfile} | !{wildcard}
```

Option	Description
{listfile}	Specifies name of list file. See List file description.
{wildcard}	Specifies wildcard or filename.

Examples

```
7z a -tzip src.zip *.txt -ir!DIR1\*.cpp
```

adds to src.zip archive all *.txt files from current directory and all *.cpp files from directory DIR1 and from all it's subdirectories.

Commands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [e \(Extract\)](#), [l \(List\)](#), [t \(Test\)](#), [u \(Update\)](#), [x \(Extract with full paths\)](#)

See also

Switches: [-r \(Recurse\)](#), [-x \(Exclude\)](#)

1 (Set compression Method) switch

Specifies the compression method.

ntax

-m<method_parameters>

The format for this switch depends on the archive type.

)

Parameter	Default	Description
x=[0 1 3 5 7 9]	5	Sets level of compression.
m={MethodID}	Deflate	Sets a method: Copy, Deflate, Deflate64, BZip2.
fb={NumFastBytes}	32	Sets number of Fast Bytes for Deflate encoder.
pass={NumPasses}	1	Sets number of Passes for Deflate encoder.
d={Size}[b k m]	900000	Sets Dictionary size for BZip2
mt=[off on {N}]	on	Sets multithreading mode.
em={EncryptionMethodID}	ZipCrypto	Sets a encryption method: ZipCrypto, AES128, AES192, AES256

x=[0 | 1 | 3 | 5 | 7 | 9]

Sets level of compression. x=0 means Copy mode (no compression).

Deflate / Deflate64 settings:

Level	NumFastBytes	NumPasses	Description
1			Fastest
3	32	1	Fast
5			Normal
7	64	3	Maximum

9 128 10 Ultra

x=1 and x=3 with Deflate method set fast mode for compression.

BZip2 settings:

Level Dictionary NumPasses Description

1	100000		Fastest
3	500000	1	Fast
5			Normal
7	900000	2	Maximum
9		7	Ultra

fb={NumFastBytes}

Sets the number of fast bytes for the Deflate/Deflate64 encoder. It can be in the range from 3 to 258 (257 for Deflate64). Usually, a big number gives a little bit better compression ratio and a slower compression process. A large fast bytes parameter can significantly increase the compression ratio for files which contain long identical sequences of bytes.

pass={NumPasses}

Sets number of passes for Deflate encoder. It can be in the range from 1 to 15 for Deflate and from 1 to 10 for BZip2. Usually, a big number gives a little bit better compression ratio and a slower compression process.

d={Size}[b|k|m]

Sets the Dictionary size for BZip2. You must specify the size in bytes, kilobytes, or megabytes. The maximum value for the Dictionary size is 900000b. If you do not specify any symbol from set [b|k|m], dictionary size will be calculated as DictionarySize = 2^Size bytes.

mt=[off | on | {N}]

Sets multithread mode. If you have a multiprocessor or multicore system, you can get a speed increase with this switch. This option affects only compression with BZip2, Deflate and Deflate64 methods and decompression of BZip2 streams. Each thread in the multithread

mode uses 32 MB of RAM for buffering. If you specify {N}, 7-Zip tries to use N threads.

.ip

GZip uses the same parameters as Zip, but GZip compresses only with Deflate method.

ip2

Parameter	Default	Description
x=[1 3 5 7 9]	5	Sets level of compression.
pass={NumPasses}	1	Sets number of Passes for Bzip2 encoder.
mt=[off on {N}]	on	Sets multithreading mode.

x=[1 | 3 | 5 | 7 | 9]

Sets level of compression

Level	NumPasses	Description
5	1	Default compression method.
7	2	Maximum compression method.
9	7	Ultra compression method.

pass={NumPasses}

Sets the number of passes. It can be in the range from 1 to 10. The default value is 1 for normal mode, 2 for maximum mode and 7 for ultra mode. A bigger number can give a little bit better compression ratio and a slower compression process.

mt=[off | on | {N}]

Sets multithread mode. If you have a multiprocessor or multicore system, you can get a speed increase with this switch. If you specify {N}, for example mt=4, 7-Zip tries to use 4 threads.

Parameter	Default	Description
-----------	---------	-------------

x=[0 | 1 | 3 | 5 | 7 | 9] 5 Sets level of compression.
s=[off | on | [e] [{N}f] [{N}b | {N}k | {N}m | {N}g] on Sets solid mode.
f=[off | on] on Enables or disables compression filters for executable files.
hc=[off | on] on Enables or disables archive header compressing.
he=[off | on] off Enables or disables archive header encryption.
b{C1}[s{S1}]:{C2}[s{S2}] LZMA Sets binding beetwen coders.
{N}={MethodID}[:param1[:param2][..] LZMA Sets a method: LZMA, PPMd, BZip2, Deflate, BCJ, BCJ2, Copy.
mt=[off | on | {N}] on Sets multithreading mode.

x=[0 | 1 | 5 | 7 | 9]

Sets level of compression

Level	Method	Dictionary	FastBytes	MatchFinder	Filter	Description
0	Copy					No compression
1	LZMA	64 KB	32	HC4	BCJ	Fastest compression
3	LZMA	1 MB	32	HC4	BCJ	Fast compression
5	LZMA	16 MB	32	BT4	BCJ	Normal compression
7	LZMA	32 MB	64	BT4	BCJ	Maximum compression
9	LZMA	64 MB	64	BT4	BCJ2	Ultra compression

s=[off | on | [e] [{N}f] [{N}b | {N}k | {N}m | {N}g]]

Enables or disables solid mode. The default mode is s=on. In solid mode, files are grouped together. Usually, compressing in solid mode improves the compression ratio.

e	Use a separate solid block for each new file extension
{N}f	Set the limit for number of files in one solid block
{N}b {N}k {N}m {N}g	Set a limit for the total size of a solid block in bytes

These are the default limits for the solid block size:

Compression Level	Solid block size
Store	0 B
Fastest	16 MB
Fast	128 MB
Normal	2 GB
Maximum	4 GB
Ultra	4 GB

Limitation of the solid block size usually decreases compression ratio but gives the following advantages:

- Decreases losses in case of future archive damage.
- Decreases extraction time of a group of files (or just one file), so long as the group doesn't contain the entire archive.

The current version of 7-Zip doesn't support updating of solid archives, if it requires repacking solid blocks.

Example:

```
s=100f10m
```

set solid mode with 100 files & 10 MB limits per one solid block.

f=[off | on]

Enables or disables compression filters for executable files: dll, exe, ocx, sfx, sys. It uses BCJ2 filter in Ultra mode and BCJ filter in other modes. The default mode is f=on.

hc=[off | on]

Enables or disables archive header compressing. The default mode is hc=on. If archive header compressing is enabled, some parts of archive header will be compressed with LZMA method.

he=[off | on]

Enables or disables archive header encryption. The default mode is he=off.

{N}

Sets order of methods. It is used also to associate parameters with methods. Numbers must begin from 0. Methods that have smaller numbers will be used before others.

b{C1}[s{S1}]:{C2}[s{S2}]

Binds output stream S1 in coder C1 with input stream S2 in coder C2. If stream number is not specified, stream with number 0 will be used.

Usually coder has one input stream and one output stream. In 7z some coders can have multiple input and output streams.

For example, [BCJ2](#) encoder has one input stream and four output streams.

mt=[off | on | {N}]

Sets multithread mode. If you have a multiprocessor or multicore system, you can get an increase with this switch. 7-Zip supports multithread mode only for LZMA compression and BZip2 compression / decompression. If you specify {N}, for example mt=4, 7-Zip tries to use 4 threads. LZMA compression uses only 2 threads.

{N}={MethodID}[:param1][:param2] ... [:paramN]

Sets compression method. You can use any number of methods. The default method is LZMA.

Parameters must be in one of the following forms:

- {ParamName}={ParamValue}.

- {ParamName}{ParamValue}, if {ParamValue} is number and {ParamName} doesn't contain numbers.

Supported methods:

MethodID	Description
LZMA	Algorithm based on LZ algorithm
PPMd	Dmitry Shkarin's PPMdH with small changes
BZip2	BWT algorithm
Deflate	LZ+Huffman
Copy	No compression

Supported filters:

MethodID	Description
BCJ	converter for x86 executables
BCJ2	converter for x86 executables (version 2)
BC_ARM	converter for ARM (little endian) executables
BC_ARMThumb	converter for ARM Thumb (little endian) executables
BC_IA64	converter for IA-64 executables
BC_PPC_B	converter for PowerPC (big endian) executables
BC_SPARC	converter for SPARC executables

Filters increase the compression ratio for some types of files. Filters must be used with one of the compression method (for example, BCJ + LZMA).

MA

LZMA is an algorithm based on Lempel-Ziv algorithm. It provides very fast decompression (about 10-20 times faster than compression).

Memory requirements for compression and decompression also are different (see [d={Size}\[b|k|m\]](#) switch for details).

Parameter	Default	Description
a=[0 1]	1	Sets compressing mode
d={Size}[b k m]	24	Sets Dictionary size

<u>mf={MF_ID}</u>	bt4	Sets Match Finder
<u>fb={N}</u>	32	Sets number of Fast Bytes
<u>mc={N}</u>	32	Sets Number of Cycles for Match Finder
<u>lc={N}</u>	3	Sets number of Literal Context bits - [0, 8]
<u>lp={N}</u>	0	Sets number of Literal Pos bits - [0, 4]
<u>pb={N}</u>	2	Set number of Pos Bits - [0, 4]

a=[0|1]

Sets compression mode: 0 = fast, 1 = normal. Default value is 1.

d={Size}[b|k|m]

Sets Dictionary size for LZMA. You must specify the size in bytes, kilobytes, or megabytes. The maximum value for dictionary size is 1 GB = 2³⁰ bytes. Default values for LZMA are 24 (16 MB) in normal mode, 25 (32 MB) in maximum mode (-mx=7) and 26 (64 MB) in ultra mode (-mx=9). If you do not specify any symbol from the set [b|k|m], the dictionary size will be calculated as DictionarySize = 2^{Size} bytes. For decompressing a file compressed by LZMA method with dictionary size N, you need about N bytes of memory (RAM) available.

mf={MF_ID}

Sets Match Finder for LZMA. Default method is bt4. Algorithms from hc* group don't provide a good compression ratio, but they often work pretty fast in combination with fast mode (a=0). Memory requirements depend on dictionary size (parameter "d" in table below).

MF_ID	Memory	Description
bt2	d*9.5 + 4 MB	Binary Tree with 2 bytes hashing.
bt3	d*11.5 + 4 MB	Binary Tree with 3 bytes hashing.
bt4	d*11.5 + 4 MB	Binary Tree with 4 bytes hashing.
hc4	d*7.5 + 4 MB	Hash Chain with 4 bytes hashing.

Note: Your operation system also needs some amount of physical memory for internal purposes. So keep at least 32MB of physical memory unused.

fb={N}

Sets number of fast bytes for LZMA. It can be in the range from 5 to 273. The default value is 32 for normal mode and 64 for maximum and ultra modes. Usually, a big number gives a little bit better compression ratio and slower compression process.

mc={N}

Sets number of cycles (passes) for match finder. It can be in range from 0 to 1000000000. Default value is $(16 + \text{number_of_fast_bytes} / 2)$ for BT* match finders and $(8 + \text{number_of_fast_bytes} / 4)$ for HC4 match finder. If you specify $mc=0$, LZMA will use default value. Usually, a big number gives a little bit better compression ratio and slower compression process. For example, $mf=HC4$ and $mc=10000$ can provide almost the same compression ratio as $mf=BT4$.

lc={N}

Sets the number of literal context bits (high bits of previous literal). It can be in range from 0 to 8. Default value is 3. Sometimes $lc=4$ gives gain for big files.

lp={N}

Sets the number of literal pos bits (low bits of current position for literals). It can be in the range from 0 to 4. The default value is 0. The lp switch is intended for periodical data when the period is equal to 2^{value} (where $lp=\text{value}$). For example, for 32-bit (4 bytes) periodical data you can use $lp=2$. Often it's better to set $lc=0$, if you change lp switch.

pb={N}

Sets the number of pos bits (low bits of current position). It can be in the range from 0 to 4. The default value is 2. The pb switch is intended for periodical data when the period is equal 2^{value} (where $lp=\text{value}$).

Md

PPMd is a PPM-based algorithm. This algorithm is mostly based on Dmitry Shkarin's PPMdH source code. PPMd provides very good

compression ratio for plain text files. There is no difference between compression speed and decompression speed. Memory requirements for compression and decompression also are the same.

Parameter	Default	Description
<u>mem={Size}[b k m]</u>	24	Sets size of used memory for PPMd.
<u>o={Size}</u>	6	Sets model order for PPMd.

mem={Size}[b|k|m]

Sets the size of memory used for PPMd. You must specify the size in bytes, kilobytes, or megabytes. The maximum value is 2GB = 2^{31} bytes. The default value is 24 (16MB). If you do not specify any symbol from the set [b|k|m], the memory size will be calculated as (2^{Size}) bytes. PPMd uses the same amount of memory for compression and decompression.

o={Size}

Sets the model order for PPMd. The size must be in the range [2,32]. The default value is 6.

:J2

BCJ2 is a Branch converter for 32-bit x86 executables (version 2). It converts some branch instructions for increasing further compression.

A BCJ2 encoder has one input stream and four output streams:

- s0: main stream. It requires further compression.
- s1: stream for converted CALL values. It requires further compression.
- s2: stream for converted JUMP values. It requires further compression.
- s3: service stream. It is already compressed.

If LZMA is used, the size of the dictionary for streams s1 and s2 can be much smaller (512 KB is enough for most cases) than the dictionary size for stream s0.

amples

```
7z a -tzip archive.zip *.jpg -mx0
```

adds *.jpg files to archive.zip archive without compression.

```
7z a -t7z archive.7z *.exe *.dll -m0=BCJ -m1=LZMA:d=21 -ms -mmt
```

adds *.exe and *.dll files to solid archive archive.7z using LZMA method with 2 MB dictionary and BCJ converter. Compression will use multithreading optimization.

```
7z a -t7z archive.7z *.exe *.dll -m0=BCJ2 -m1=LZMA:d23 -m2=LZMA:d19  
-mb0:1 -mb0s1:2 -mb0s2:3
```

adds *.exe and *.dll files to archive archive.7z using BCJ2 converter, LZMA with 8 MB dictionary for main output stream (s0), and LZMA with 512 KB dictionary for s1 and s2 output streams of BCJ2.

```
7z a -t7z archive.7z *.txt -m0=PPMd
```

adds *.txt files to archive archive.7z using PPMd method.

mmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [u \(Update\)](#),

e also

Switches: [-t \(set Type of archive\)](#),

(set Output directory) switch

Specifies a destination directory where files are to be extracted.

This switch can be used only with extraction commands.

ntax

-o{dir_path}

{dir_path}

This is the destination directory path. It's not required to end with a backslash.

ample

```
7z x archive.zip -oc:\Doc
```

extracts all files from the archive.zip archive to the c:\Doc directory.

```
7z x *.zip -o*
```

extracts all *.zip archives to subfolders with names of these archives.

mmmands that can be used with this switch

[e \(Extract\)](#), [x \(Extract with full paths\)](#)

(set Password) switch

Specifies password.

ntax

-p{password}

{password}

Specifies password.

amples

```
7z a archive.7z -psecret -mhe *.txt
```

compresses *.txt files to archive.7z using password "secret". Also it encrypts archive headers (-mhe switch), so filenames will be encrypted.

```
7z x archive.zip -psecret
```

extracts all files from archive.zip using password "secret".

mmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [e \(Extract\)](#), [t \(Test\)](#), [u \(Update\)](#), [x \(Extract with full paths\)](#)

(Recurse subdirectories) switch

Specifies the method of treating wildcards and filenames on the command line.

ntax

-r[- | 0]

Switch	Description
-r	Enable recurse subdirectories.
-r-	Disable recurse subdirectories. This option is default for all commands.
-r0	Enable recurse subdirectories only for wildcard names.

amples

```
7z l archive.zip *.doc -r-
```

lists all *.doc files that belong to the archived root directory in the archive.zip archive.

```
7z a -tzip archive.zip -r src\*.cpp src\*.h
```

adds all *.cpp and *.h files from directory src and all it's subdirectories to the archive.zip archive.

mmmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [e \(Extract\)](#), [l \(List\)](#), [t \(Test\)](#), [u \(Update\)](#), [x \(Extract with full paths\)](#)

e also

Switches: [-i \(Include\)](#), [-x \(Exclude\)](#)

cs (Set charset for list files) switch

Sets charset for list files.

ntax

-scs{UTF-8 | WIN | DOS}

Default charset is UTF-8.

UTF-8

Unicode UTF-8 character set.

WIN

Default character set of Windows.

DOS

Default DOS (OEM) character set of Windows.

ample

```
7z a archive.7z @listfile.txt -scsWIN
```

compresses files from listfile.txt list, that contains list of files in default character set of Windows.

mmands that can be used with this switch

[a \(Add\)](#), [u \(Update\)](#)

eml (Send archive by email) switch

Sends an archive by e-mail.

ntax

-sem1[.]

[.]

Causes the archive to be deleted after attaching a copy of it to the email message.

ample

```
7z a archive.7z -sem1 a.txt
```

compresses the a.txt file and sends it in archive.7z by email.

mmands that can be used with this switch

[a \(Add\)](#), [u \(Update\)](#)

fx (Create SFX archive) switch

Creates self extracting archive.

ntax

-sfx[[{SFX_Module}](#)]

{SFX_Module}

Specifies the SFX module that will be combined with the archive. This module must be placed in the same directory as the 7z.exe. If {SFX_Module} is not assigned, 7-Zip will use standard console SFX module 7zCon.sfx.

SFX_Module	Description
7z.sfx	Windows version.
7zCon.sfx	Console version.
7zS.sfx	Windows version for installers.
7zSD.sfx	Windows version for installers (uses MSVCRT.dll).

All SFX modules are uncompressed. You can use UPX program (<http://upx.sourceforge.net>) to compress such modules. After compressing by the UPX program, the size of the sfx module will be reduced to 40-50% of its original size.

X modules for installers

SFX modules for installers are included in an external package (7z_extra). You can download these modules from www.7-zip.org. SFX modules for installers (7zS.sfx and 7zSD.sfx) allow you to create your own installation program. Such a module extracts the archive to the user's temp folder, and runs a specified program, and removes the temp files after the program finishes. A self-extracting archive for installers must be created as joining 3 files: SFX_Module, Installer_Config, 7z_Archive. In addition, an optional file, Installer_Config, is allowed. You can use the following command to create an installer self-extracting archive:

```
copy /b 7zS.sfx + config.txt + archive.7z archive.exe
```

An optimally small installation package size can be achieved, if the installation files are uncompressed before including them in the 7z archive.

-y switch for installer module specifies quiet mode extraction.

Installer Config file format

This config file contains commands for the Installer. The file begins with the string `;!@Install@!UTF-8!` and ends with `;!@InstallEnd@!`. The file must be written in UTF-8 encoding. The file contains any or all these string pairs:

```
ID_String="Value"
```

ID_String	Description
Title	Title for messages
BeginPrompt	Begin Prompt message
Progress	Value can be "yes" or "no". Default value is "yes".
RunProgram	Command for executing. Default value is "setup.exe". Substring <code>%%T</code> will be replaced with path to temporary folder, where files were extracted
Directory	Directory prefix for "RunProgram". Default value is <code>.\</code>
ExecuteFile	Name of file for executing
ExecuteParameters	Parameters for "ExecuteFile"

You may omit any pair.

There are two ways to run a installation program: **RunProgram** and **ExecuteFile**. Use **RunProgram**, if you want to run a program from the .7z archive. Use **ExecuteFile**, if you want to open a document from the .7z archive, or if you want to execute a command from Windows.

If you use **RunProgram**, and if you specify empty directory prefix: **Directory=""**, the system searches for the executable file in the following sequence:

1. The directory from which the application (installer) loaded.

2. The temporary folder, where files were extracted.
3. The Windows system directory.

nfig file Examples

```
;!@Install@!UTF-8!  
Title="7-Zip 4.00"  
BeginPrompt="Do you want to install the 7-Zip 4.00?"  
RunProgram="setup.exe"  
;!@InstallEnd@!
```

```
;!@Install@!UTF-8!  
Title="7-Zip 4.00"  
BeginPrompt="Do you want to install the 7-Zip 4.00?"  
ExecuteFile="7zip.msi"  
;!@InstallEnd@!
```

```
;!@Install@!UTF-8!  
Title="7-Zip 4.01 Update"  
BeginPrompt="Do you want to install the 7-Zip 4.01 Update?"  
ExecuteFile="msiexec.exe"  
ExecuteParameters="/i 7zip.msi REINSTALL=ALL REINSTALLMODE=vomus"  
;!@InstallEnd@!
```

amples

```
7z a -sfx a.exe *.txt
```

adds *.txt files to self extracting archive a.exe using the default console SFX module.

```
7z a -sfx7z.sfx a.exe *
```

adds all files to self extracting archive a.exe with module 7z.sfx using windows version of SFX mudule.

mmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [u \(Update\)](#),

i (read data from stdin) switch

Causes 7-Zip to read data from stdin (standard input) instead of from disc files.

ntax

`-si{file_name}`

{file_name}

Specifies a name that will be stored in the archive for the compressed data. If file_name is not specified, data will be stored without a name.

Note: The current version of 7-Zip does not support reading of archives from stdin.

ample

```
7z a archive.gz -tgzip -siDoc2.txt < Doc.txt
```

compresses input stream from file Doc.txt to archive.gz archive using Doc2.txt file name.

mmands that can be used with this switch

[a \(Add\)](#), [u \(Update\)](#)

o (write data to stdout) switch

Causes 7-Zip to write output data to stdout (standard output stream).

ntax

-so

amples

```
7z x archive.gz -so > Doc.txt
```

decompresses archive.gz archive to output stream and then redirects that stream to Doc.txt file.

```
7z a dummy -tgzip -so Doc.txt > archive.gz
```

compresses the Doc.txt file to the 7-Zip standard output stream and writes that stream to archive.gz file.

mmands that can be used with this switch

[a \(Add\)](#), [e \(Extract\)](#), [u \(Update\)](#), [x \(Extract with full paths\)](#)

lp (Set Large Pages mode) switch

Sets Large Pages mode.

ntax

-slp[-]

Switch	Description
-slp	Enables Large Pages mode.
-slp-	Disables Large Pages mode. This option is default for all commands.

Large Pages mode increases the speed of compression. However, there is a pause at the start of compression while 7-Zip allocates the large pages in memory. If 7-Zip can't allocate large pages, it allocates usual small pages. Also, the Windows Task Manager doesn't show the real memory usage of the program, if 7-Zip uses large pages. This feature works only on Windows 2003 / XP x64 / Vista. Also, it requires administrator's rights for your system. The recommended size of RAM for this feature is 1 GB or more. To install this feature, you must run the 7-Zip File Manager at least once, close it, and then reboot the system.

Your system can hang for several seconds at compressing starting, if you use -slp mode. So it's not recommended to use -slp mode to compress small data sets (less than 100 MB).

ample

```
7z a archive.7z -slp a.iso
```

compresses a.iso file with Large Pages mode switched on.

It (Show technical information) switch

Sets technical mode for [l\(List\)](#) command.

ntax

-slt

ample

```
7z l -slt archive.7z
```

shows detailed technical information for the files in archive.7z.

mmands that can be used with this switch

[l\(List\)](#)

sc (Set Sensitive Case mode) switch

Sets sensitive case mode for file names.

ntax

-scs[-]

Switch	Description
-ssc	Set case-sensitive mode. It's default for Posix/Linux systems.
-ssc-	Set case-insensitive mode. It's default for Windows systems.

ample

```
7z a archive.7z A*.txt -ssc -r
```

compresses all A*.txt files from current directory and all it's subdirectories. That command doesn't compress a*.txt files.

mmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [e \(Extract\)](#), [l \(List\)](#), [t \(Test\)](#), [u \(Update\)](#), [x \(Extract with full paths\)](#)

sw (Compress files open for writing) switch

Compresses files open for writing by another applications. If this switch is not set, 7-zip doesn't include such files to archive.

ntax

-SSW

ample

```
7z a archive.7z -ssw *.txt
```

compresses all *.txt files in current folder including files open for writing by another applications.

mmands that can be used with this switch

[a \(Add\)](#), [u \(Update\)](#)

(set Type of archive) switch

Specifies the type of archive.

ntax

-t{archive_type}

{archive_type}

Specifies the type of archive. It can be: 7z, zip, gzip, bzip2, or tar. 7z format is the default.

Note: gzip or bzip2 formats support only one file per archive. If you want to compress more than one file to these formats, create a tar archive first, and then compress it with your selected format.

ample

```
7z a -tzip archive.zip *.txt
```

adds all *.txt files from current directory to zip archive archive.zip.

mmands that can be used with this switch

[a \(Add\)](#), [u \(Update\)](#)

(Update options) switch

Specifies how to update files in an archive and (or) how to create new archives.

ntax

-u[-]<action_set>[!{new_archive_name}]

<action_set> ::= <state_action>...

<state_action> ::= <state><action>

<state> ::= p | q | r | x | y | z | w

<action> ::= 0 | 1 | 2 | 3

rameters

dash (-)

Disables any updates in the base archive.

The term **base archive** means the archive assigned by "base_archive_name" on the command line. See [Command line syntax](#) for more details.

{new_archive_name}

Specifies the path name of the new archive to be created. All options in this switch will refer to this new archive.

If not assigned, then all options in this switch will refer to the base archive of the command.

<state>

Specifies the state of a particular file to be processed.

<state> ::= p | q | r | x | y | z | w

For each unique filename there are 6 variants of state:

<state>	State condition	File on Disk	File in Archive
p	File exists in archive, but is not matched with wildcard.		Exists, but is not matched
q	File exists in archive, but doesn't exist on disk.	Doesn't exist	Exists
r	File doesn't exist in archive, but exists on disk.	Exists	Doesn't exist
x	File in archive is newer than the file on disk.	Older	Newer
y	File in archive is older than the file on disk.	Newer	Older
z	File in archive is same as the file on disk	Same	Same
w	Can not be detected what file is newer (times are the same, sizes are different)	?	?

<action>

Specifies the action for a given [<state>](#).

`<action> ::= 0 | 1 | 2 | 3`

For each state you can specify one of the three variants of actions:

<action>	Description
0	Ignore file (don't create item in new archive for this file)
1	Copy file (copy from old archive to new)
2	Compress (compress file from disk to new archive)
3	Create Anti-item (item that will delete file or directory during extracting). This feature is supported only in 7z format.

marks

Any update command (such as [a \(Add\)](#), [d \(Delete\)](#), [u \(Update\)](#)) can be assigned in these terms.

The following table shows action sets for update commands.

command \ <u><state></u>	p	q	r	x	y	z	w
<u>d (Delete)</u>	1	0	0	0	0	0	0
<u>a (Add)</u>	1	1	2	2	2	2	2
<u>u (Update)</u>	1	1	2	1	2	1	2
<u>Synchronize</u>	1	0	2	1	2	1	2

If you don't specify a !{new archive name} option, then all options will refer to the main archive (the archive assigned on the command line after the 7z command). If you specify !{new archive name} option, then 7-Zip also will create a new archive with the specified name and all options will refer to that new archive.

Multiple update switches are supported. 7-Zip can create any number of new archives during one operation.

By default, the action set for each new archive is assigned as the action set of the main command. There are 3 different action sets for commands: a (Add), d (Delete), u (Update). You can overload any <state_action> pair.

ne zone notes

If you change time zone (when you move your computer to another time zone or if there are clock changes for daylight saving in your zone), you can have some problems with update commands that depend from file's modification time. It's strongly recommended to use only file system that uses Coordinated Universal Time (UTC) and archive format that also uses UTC. In that case you will have no problems with time zone changes. Also it's recommended to use only UTC formats in other cases, for example, if you send files to someone in another time zone.

Also in some cases there are no problems, if both file system and archive format use local time, for example, FAT file system and ZIP format.

- UTC file systems: NTFS
- UTC archive formats: 7z, tar, gzip2, iso, wim
- Local time file systems : FAT, FAT32

- Local time archive formats : rar, zip, cab

amples

```
7z u c:\1\exist.7z -u- -up0q3x2z0!c:\1\update.7z *
```

creates a new archive update.7z and writes to this archive all files from current directory which differ from files in exist.7z archive. exist.7z archive will not be changed.

```
7z u c:\1\exist.7z -up0q3x2z0!c:\1\update.7z * -ms=off
```

creates a new archive update.7z and writes to this archive all files from the current directory which differ from files in exist.7z archive.

Note: The current version of 7-Zip cannot change an archive created with the solid option switched on. To update a .7z archive, you must create and update the archive in non-solid mode (-ms=off switch).

mmmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [u \(Update\)](#),

(Create Volumes) switch

Specifies volume sizes.

ntax

```
-v{Size}[b | k | m | g]
```

{Size}[b | k | m | g]

Specifies volume size in Bytes, Kilobytes (1 Kilobyte = 1024 bytes), Megabytes (1 Megabyte = 1024 Kilobytes) or Gigabytes (1 Gigabyte = 1024 Megabytes). if you specify only {Size}, 7-zip will treat it as bytes.

It's possible to specify several -v switches.

NOTE: Please don't use volumes (and don't copy volumes) before finishing archiving. 7-Zip can change any volume (including first volume) at the end of archiving operation.

amples

```
7z a a.7z *.txt -v10k -v15k -v2m
```

creates multivolume a.7z archive. First volume will be 10 KB, second will be 15 KB, and all others will be 2 MB.

mmands that can be used with this switch

[a \(Add\)](#),

/ (set Working directory) switch

Sets the working directory for the temporary base archive. By default, 7-Zip builds a new base archive file in the same directory as the old base archive file. By specifying this switch, you can set the working directory where the temporary base archive file will be built. After the temporary base archive file is built, it is copied over the original archive; then, the temporary file is deleted.

ntax

-w[[{dir_path}](#)]

{dir_path}

Specifies the destination directory path. It's not required that a path end with a backslash.

If <dir_path> is not assigned, then 7-Zip will use the Windows temporary directory.

ample

```
7z a -tzip archive.zip *.cpp -wc:\temp
```

adds *.cpp files to the archive.zip archive, creating a temporary archive in c:\temp folder.

mmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [u \(Update\)](#),

(Exclude filenames) switch

Specifies which filenames or wildcarded names must be excluded from the operation.

Multiple exclude switches are supported.

ntax

```
-x[<recurse_type>]<file_ref>
```

```
<recurse_type> ::= r[- | 0]
```

```
<file_ref> ::= @{listfile} | !{wildcard}
```

See [-i \(Include\)](#) switch description for information about option parameters.

amples

```
7z a -tzip archive.zip *.txt -x!temp.*
```

adds to the archive archive.zip all *.txt files, except temp.* files.

mmands that can be used with this switch

[a \(Add\)](#), [d \(Delete\)](#), [e \(Extract\)](#), [l \(List\)](#), [t \(Test\)](#), [u \(Update\)](#), [x \(Extract with full paths\)](#)

e also

Switches: [-r \(Recurse\)](#), [-i \(Include\)](#)

(assume Yes on all queries) switch

Disables most of the normal user queries during 7-Zip execution. You can use this switch to suppress overwrite queries in the [e \(Extract\)](#) and [x \(Extract with full paths\)](#) commands.

ntax

-y

amples

```
7z x src.zip -y
```

extracts all files from src.zip archive. All overwrite queries will be suppressed and files on disk with same filenames as in archive will be overwritten.

mmands that can be used with this switch

[e \(Extract\)](#), [x \(Extract with full paths\)](#)

e also

Switches: [-ao \(Overwrite mode\)](#),

Menu Items

Note: 'Grey' refers to the numeric keypad.

e

Menu item	Shortcut	Description
System		Submenu with menu commands from system shell
Open	Enter	Open current item
Open Inside	Ctrl+PgDn	Open current item as folder inside 7-Zip
Open Outside	Shift+Enter	Open current item in new window
Edit	F4	Open selected item with editor
Rename	F2	Rename selected item
Copy To...	F5	Copy selected items
Move To...	F6	Move selected items
Delete	Delete	Delete selected items
Split file...		Split file to parts
Combine files...		Combine files to one file
Comment	Ctrl+Z	Set comment for file
Calculate checksum		Calculates CRC checksum for files
Create Folder	F7	Create new folder
Create File	Shift+F4	Creates new file
Exit	Alt+F4	Closes the program.

lit

Menu Item	Shortcut	Description
Select All	Shift+ [Grey +]	Select all items
Deselect All	Shift+ [Grey -]	Select all items

Invert Selection	[Grey *]	Select / Deselect all items
Select...	[Grey +]	Select specified items
Deselect...	[Grey -]	Deselect specified items
Select by Type	Alt+[Grey +]	Select all items with the same extension as current item
Deselect by Type	Alt+[Grey -]	Deselect all items with the same extension as current item

ew

Menu Item	Shortcut	Description
Large Icons	Ctrl+1	Displays items by using large icons
Small Icons	Ctrl+2	Displays items by using small icons
List	Ctrl+3	Displays items in a list
Details	Ctrl+4	Displays items in a list with detailed information about each item
Name	Ctrl+F3	Sort items by Name
Type	Ctrl+F4	Sort items by Type
Date	Ctrl+F5	Sort items by Date
Size	Ctrl+F6	Sort items by Size
Unsorted	Ctrl+F7	Do not sort items
Flat View		Switch Flat view mode for list of files
2 Panels	F9	Switch On/Off second panel
Toolbars		Menu items for toolbars handling
Open Root Folder	\	Open root computer folder
Up One Level	Backspace	Open the folder one level up
Folders History...	Alt+F12	Open folders history
Refresh	Ctrl+R	Refresh items list

otions

Menu Item	Shortcut	Description
Options...		Open Options dialog box

avorites

Menu Item	Shortcut	Description
Add folder to Favorites as		Adds folder to favorites

lp

Menu Item	Shortcut	Description
Contents...	F1	Opens 7-Zip Help
About 7-Zip...		Opens About dialog box

scellaneous commands

Shortcut	Description
Tab	Switch between panels
Insert	Select / Deselect current item
Shift+F10	Display the shortcut menu for the selected items
RightCtrl+0 Alt+0 ...	Open folder bookmark
RightCtrl+9 Alt+9 Shift+RightCtrl+0 Shift+Alt+0 ...	Creates folder bookmark
Shift+RightCtrl+9 Shift+Alt+9	
Alt+F1	Edit the Folder Address on left panel
Alt+F2	Edit the Folder Address on right panel
Ctrl+[Grey +]	Adjust optimal column width for items
Alt+Up	Open same folder in other panel
Alt+Left, Alt+Right	Open current folder in other panel

Keyboard Shortcuts

Key	Normal	Ctrl	Alt	Shift
Tab	Switch panel			
F1	Help		Left Path	
F2	Rename		Right Path	
F3	View	Sort by Name		
F4	Edit	Sort by Type	Exit	Create File
F5	Copy	Sort by Date		
F6	Move	Sort by Size		
F7	Create Folder	Unsorted		
F9	1/2 Panels			
F10	Menu			Shortcut Menu
F12			Folders History	
0-9		R: Folder Bookmark	Folder Bookmark	
A		Select All		
N		Create File		
R		Refresh		
Z		Comment		
Backspace	Up One Level			
Enter	Open		Properties	Open outside
Insert	Select Item			
Delete	Delete Item			
Page Down		Open Inside		
Page Up		Up One Level		
			Open same	

Up			folder	
Left			Open current folder	
Right			Open current folder	
\	Open root			
Grey /	Open root			
Grey *	Select All			
Grey +	Select	Adjust columns	Select by Type	Select All
Grey -	Deselect		Deselect by Type	Deselect All