



ZIP (or RAR) Files

What are they ?

Reasons to use ZIP files



- Compress 'bulky' files, smaller to transmit
- Package-Up many small files
- Provide Envelope Integrity – tamper.evident
- Provide password encryption / protection
- Break up large files

How do they work ?

- Advanced algorithms to compress files
- Looks for multiple occurrences
(eg. 5 separate spaces becomes 5* space)
- Can combine multiple files in to one envelope
- Add a Check-Sum across whole envelope
- Reverse the process at the other end ...
(Have UnZip program or be self-extracting)

Programs available

- Originally PKZIP / PKUNZIP **free**
- Replaced with Win-ZIP - **free trial, then \$40**
- RAR format added, using Win-RAR – **free trail, \$29**
- 7-Zip - Open Source - **free, but limited packaging**
- Since Win-ME, Windows natively handles ZIP as
‘Compressed format’
- My preference . . . Win-RAR



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7-Zip

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

Download 7-Zip 16.02 (2016-05-21) for Windows:

Link	Type	Windows	Size
Download	.exe	32-bit x86	1 MB
Download	.exe	64-bit x64	1 MB

License

7-Zip is **open source** software. Most of the source code is under the **GNU LGPL** license. The unRAR code is under a mixed license: GNU LGPL + unRAR restrictions. Check license information here: [7-Zip license](#).

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.

The main features of 7-Zip

- High compression ratio in [7z format](#) with **LZMA** and **LZMA2** compression
- Supported formats:
 - Packing / unpacking: 7z, XZ, BZIP2, GZIP, TAR, ZIP and WIM
 - Unpacking only: AR, ARJ, CAB, CHM, CPIO, CramFS, DMG, EXT, FAT, GPT, HFS, IHEX, ISO, LZH, LZMA, MBR, MSI, NSIS, NTFS, QCOW2, RAR, RPM, SquashFS, UDF, EFI, VDI, VHD, VMDK, WIM, XAR and Z.
- For ZIP and GZIP formats, **7-Zip** provides a compression ratio that is 2-10 % better than the ratio provided by PKZip and WinZip
- Strong AES-256 encryption in 7z and ZIP formats
- Self-extracting capability for 7z format
- Integration with Windows Shell



WinRAR and RAR archiver downloads

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Latest English WinRAR and RAR beta versions

Software name	User interface	License	Size
WinRAR x86 (32 bit) 5.40 beta 3	Graphical and command line	Trial	1916 KB
WinRAR x64 (64 bit) 5.40 beta 3	Graphical and command line	Trial	2131 KB
RAR 5.40 beta 3 for Linux	Command line only	Trial	1095 KB
RAR 5.40 beta 3 for Linux x64	Command line only	Trial	1129 KB
RAR 5.40 beta 3 for FreeBSD	Command line only	Trial	1565 KB
RAR 5.40 beta 3 for Mac OS X	Command line only	Trial	496 KB

Latest localized WinRAR beta versions

Language	Version	Size
Albanian (32 bit)	5.40 beta 3	2016 KB
Albanian (64 bit)	5.40 beta 3	2238 KB
Arabic (32 bit)	5.40 beta 3	1966 KB
Arabic (64 bit)	5.40 beta 3	2191 KB
Armenian (32 bit)	5.40 beta 3	1966 KB
Armenian (64 bit)	5.40 beta 3	2191 KB
Bulgarian (32 bit)	5.40 beta 3	1978 KB
Bulgarian (64 bit)	5.40 beta 3	2270 KB
Chinese Traditional (32 bit)	5.40 beta 3	2166 KB

Demonstrate

- Compressed Word doc
- Bundled Resume docs
- Bundled Program elements
- Bundled Personal files backup
- Password Protected file

- Expanding a .RAR file set
- Building a ZIP file, with PSW