



All About “Zipping and Stuffing” *Compressing Files and Creating Zip Files*



What is File Compression?

- A way to eliminate or minimize redundancy in a file, making file smaller without loss of information

*Example: set of characters
“AAAADDDDDDD” could be reduced to
“4A7D” (64% smaller)*

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What is an Archive?

- An archive is the container that holds compressed files.
- An archive can contain a single file or many files
- Each archive is a single document like word processing document, graphics file or database

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Different Types of Compression

- Different computers, different operating systems use different types of compression
- Macintosh uses “.sit” format
- Windows uses “.zip” format
- Unix-based uses “.Z” or “.gz” formats
Plus, there are numerous other formats

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Windows and Zip

- In Win XP “unzip” is included; but a utility required to create a zipped file
- Pre-Win XP, a utility was required to “unzip” or open a zipped file
- Pre-Win XP, a utility was required to create a zip file

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What about Encoding?

- Encoding transforms files for transporting across the Internet
- Windows-based files are 8-bit files
- Nearly all gateways only supported 7-bit files. An 8-bit file thru a 7-bit gateway damaged file contents. File encoding converted 8-bit files into 7-bit files for transferring intact

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Common Encoding Methods

- **UUencoding** takes only the 8-bit data fork and converts it into a 7-bit file
- **Mime** - really a map
 - Maps a particular method of encoding to the application to decode the file
 - Netscape or IE helper applications require you specify the MIME-type

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Common Encoding Methods cont.

- **Base 64 encoding** takes an 8-bit file and converts it to a 7-bit file
 - Fairly new and produces the smallest file of these encoding methods
- **BinHex encoding** takes the 8-bit resource and data forks of Mac files and converts them into a single 7-bit file with a ".hqx" extension

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Why Compress Files?

- To simplify exchanging files
- To streamline the exchange of files - *reduced object size*
- To reduce errors when exchanging files - *validate accuracy*
- To secure the data - *encryption*

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StuffIt Wizards

- **New Archive** — creates a new archive
- **Compress & FTP** — compress and upload via FTP
- **Compress & Email** — compress and send files via email

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StuffIt Tools

- **Schedule Backups** — backup now or later
- **StuffIt Express P.E.** — automate everyday tasks
- **DiskIndex** — search and browse CD's offline
- **Sea Builder** — create custom self-extracting archives

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What Can StuffIt Do?

- **Create a Scheduled Backup**
 - Create a back task then use Scheduler to automatically run that task
- **Create an Encrypted Archive**
 1. Select the files/folders to compress
 2. Right click the files, choose "Encrypt" from menu
 3. Prompted for password to use to encrypt

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StuffIt Can...



- **DiskIndex - search and browse CD's offline**
 - Create an index of CD's or DVD's
 - Allows you to browse or search contents offline, without inserting it into your computer

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StuffIt Can...



- **Create Self-Extracting Archives**
- **SEA Builder**
 - A utility to convert a Zip file to a self-extracting archive ".exe" that expand to full size without any additional tools or utilities.

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Thank you!



1. I appreciate your attention
2. Let's look at StuffIt
3. Let's see how it works
4. Let's examine file sizes for compression
5. Thanks again!

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The End!



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