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HowTo: Extract Archives [tar|gz|bz2|rar|zip|7z|tbz2|tgz|Z]

Posted on Tuesday December 27th, 2016 (<https://www.shellhacks.com/extract-archive-tar-gz-bz2-rar-zip-7z-tbz2-tgz-z/>) by admin (<https://www.shellhacks.com/author/admin/>)

(<https://www.shellhacks.com/extract-archive-tar-gz-bz2-rar-zip-7z-tbz2-tgz-z/>)

A small note about how to unpack and uncompress the most popular types of archives from the Linux command line.

Unpack [tar|tar.gz|tgz|tar.bz2|tbz2] Files in Linux

Use the following commands to extract **TAR** archives compressed with **GZIP** and **BZIP2**:

```
$ tar xvf file.tar
$ tar xvzf file.tar.gz
$ tar xvzf file.tar.tgz
$ tar xvjf file.tar.bz2
$ tar xvjf file.tar.tbz2
```

Uncompress [zip|rar|bz2|gz|Z|7z] Files in Linux

Use the following commands to uncompress archives or files, compressed with **ZIP**, **GUNZIP**, **RAR**, **BUNZIP2**, **COMPRESS** and **7Z** programs:

```
$ unzip file.zip
$ gunzip file.gz
$ unrar x file.rar
$ bunzip2 file.bz2
$ uncompress file.Z
$ 7z x file.7z
```

Extract Archives with Shell Function

You can create a bash shell function as follows (add to your ~/.bashrc):

```

function extract {
  if [ -z "$1" ]; then
    # display usage if no parameters given
    echo "Usage: extract ."
  else
    if [ -f $1 ] ; then
      # NAME=${1%.*}
      # mkdir $NAME && cd $NAME
      case $1 in
        *.tar.bz2) tar xvjf ../$1 ;;
        *.tar.gz) tar xvzf ../$1 ;;
        *.tar.xz) tar xvJf ../$1 ;;
        *.lzma) unlzma ../$1 ;;
        *.bz2) bunzip2 ../$1 ;;
        *.rar) unrar x -ad ../$1 ;;
        *.gz) gunzip ../$1 ;;
        *.tar) tar xvf ../$1 ;;
        *.tbz2) tar xvjf ../$1 ;;
        *.tgz) tar xvzf ../$1 ;;
        *.zip) unzip ../$1 ;;
        *.Z) uncompress ../$1 ;;
        *.7z) 7z x ../$1 ;;
        *.xz) unxz ../$1 ;;
        *.exe) cabextract ../$1 ;;
        *) echo "extract: '$1' - unknown archive method" ;;
      esac
    else
      echo "$1 - file does not exist"
    fi
  fi
}

```

Source: <https://github.com/xvoland/Extract> (<https://github.com/xvoland/Extract>)

Reload .bashrc file.

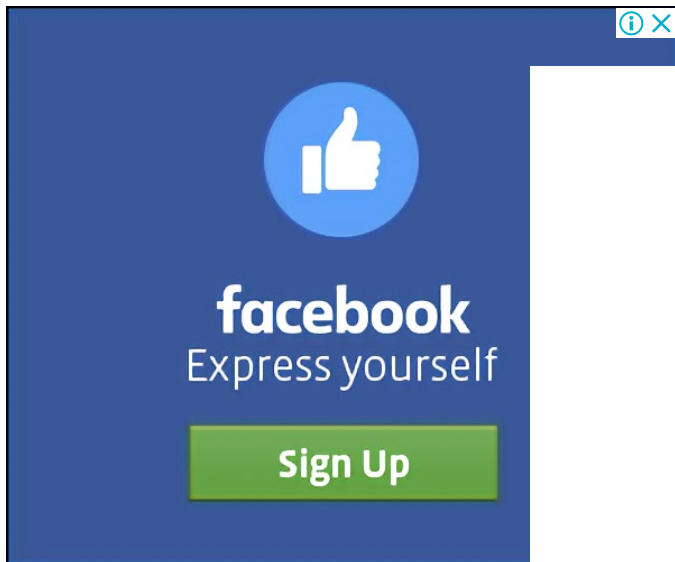
```
$ . ~/.bashrc
```

Now use **extract** command for unpacking and uncompressing the most popular archive types:

```

$ extract file.rar
$ extract file.tar.gz2
$ extract file.7z

```



Comment (1) (<https://www.shellhacks.com/extract-archive-tar-gz-bz2-rar-zip-7z-tbz2-tgz-z/#comments>)

ARCHIVE ([HTTPS://WWW.SHELLHACKS.COM/TAG/ARCHIVE/](https://www.shellhacks.com/tag/archive/))

ONE REPLY TO "HOWTO: EXTRACT ARCHIVES [TAR|GZ|BZ2|RAR|ZIP|7Z|TBZ2|TGZ|Z]"



ALESHKA

REPLY

Saturday November 17th, 2018 at 02:03 AM (<https://www.shellhacks.com/extract-archive-tar-gz-bz2-rar-zip-7z-tbz2-tgz-z/#comment-7267>)

Для zsh

```

function extract {
  if [ -z "$1" ]; then
    # display usage if no parameters given
    echo "Usage: extract ."
  else
    if [ -f $1 ] ; then
      # NAME=${1%.*}
      # mkdir $NAME && cd $NAME
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        *.tar.bz2) tar xvjf $1 ;;
        *.tar.gz) tar xvzf $1 ;;
        *.tar.xz) tar xvJf $1 ;;
        *.lzma) unlzma $1 ;;
        *.bz2) bunzip2 $1 ;;
        *.rar) unrar x -ad $1 ;;
        *.gz) gunzip $1 ;;
        *.tar) tar xvf $1 ;;
        *.tbz2) tar xvjf $1 ;;
        *.tgz) tar xvzf $1 ;;
        *.zip) unzip $1 ;;
        *.Z) uncompress $1 ;;
        *.7z) 7z x $1 ;;
        *.xz) unxz $1 ;;
        *.exe) cabextract $1 ;;
        *) echo "extract: '$1' - unknown archive method" ;;
      esac
    else
      echo "$1 - file does not exist"
    fi
  fi
}

```

LEAVE A REPLY

Comment

Name

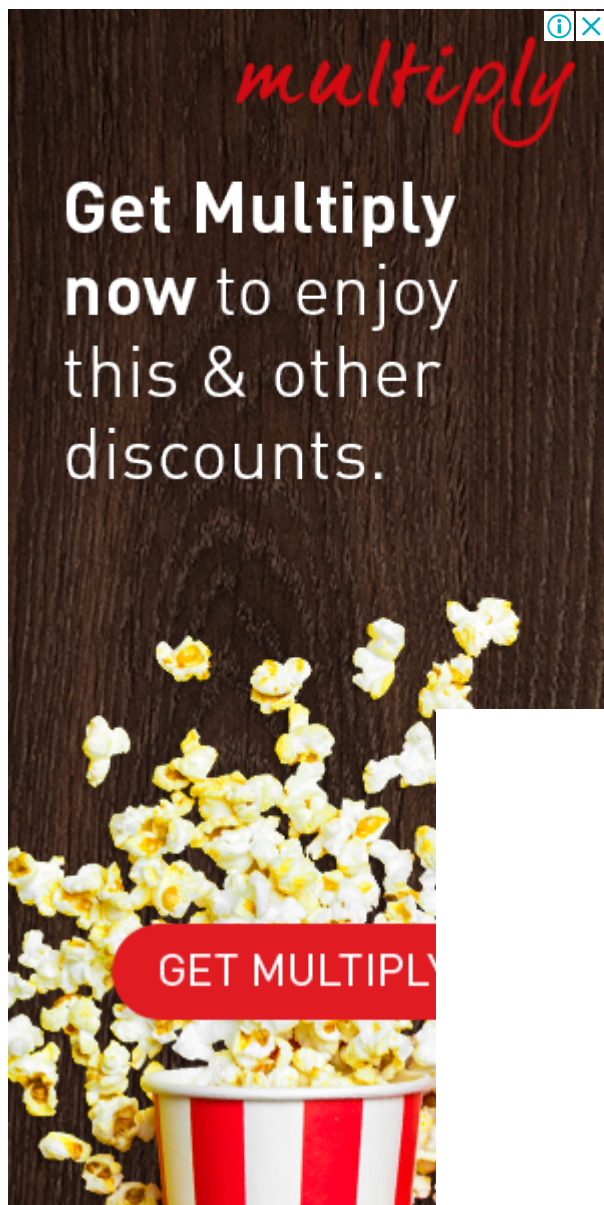
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◀ CASE STATEMENT IN BASH [EXAMPLE] ([HTTPS://WWW.SHELLHACKS.COM/CASE-STATEMENT-BASH-EXAMPLE/](https://www.shellhacks.com/case-statement-bash-example/))

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([HTTPS://WWW.SHELLHACKS.COM/FIND-TOP-PROCESSES-MEMORY-USAGE-LINUX/](https://www.shellhacks.com/find-top-processes-memory-usage-linux/))



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