

Series 1: Making File Compression Software is Easy with Java.....

# GhinZip Ver 1.0

***Simple File Compression (Zip/Jar)***

Volume 1.0



by

Goen-Ghin

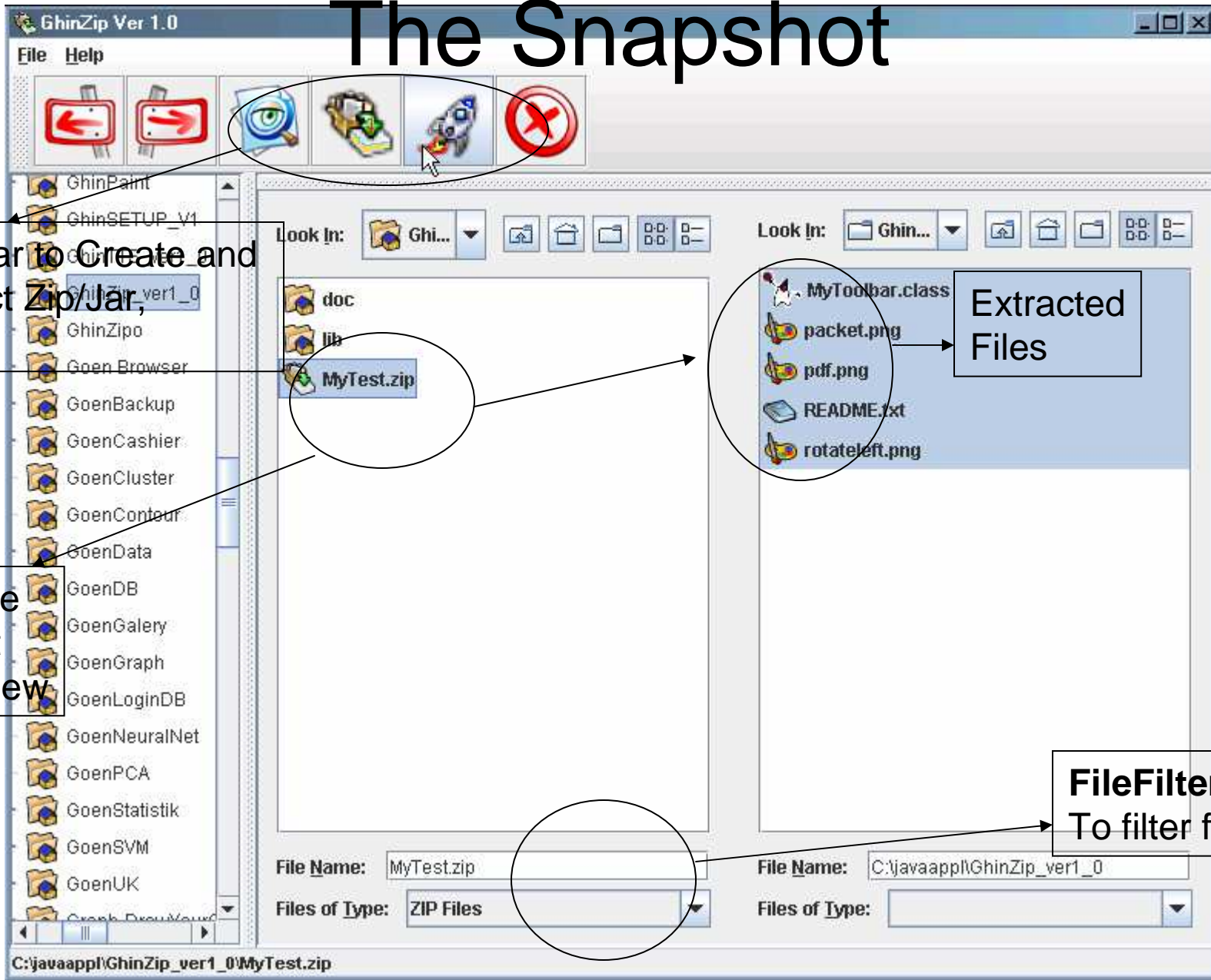
<http://javageo.com>

<http://groups.yahoo.com/group/JavaGeo/>

# Introduction

- This volume 1, will bring you to the world of java programming to create file compression software using java API
- help you to learn how to create and extract zip and jar file with java
- And also give you an idea to design java swing components to any software that you want to create !

# The Snapshot



Toolbar to Create and Extract Zip/Jar, File

Zip File Select And view

Extracted Files

FileFilter To filter files

# Class & Functionality

## **Class**

GhinZip

FileNode

SimpleFilter

IconCellRenderer

IconData

MyFileChooser

MyToolbar

menulistener

etc

functionalities are

- Search Zip/Jar File
- Create and Extract Zip/Jar File
- ,Copy,Rename,Delete File
- View file Properties
- Filter file
- Create File/Directory
- Easy to use

## **Method**

createMenuBar()

createZipArchive()

createJarArchive()

extractZipFILE()

extractJarFILE()

popup

etc

# Code Create Zip/Jar File

```
byte buffer[] = new byte[BUFFER_SIZE];
// Open archive file
FileOutputStream stream = new FileOutputStream(archiveFile);
ZipOutputStream out = new ZipOutputStream(stream);

//if JAR FILE
//FileOutputStream stream = new FileOutputStream(archiveFile);
//JarOutputStream out = new JarOutputStream(stream,new Manifest());
for (int k = 0; k < selected.length; k++)
{
    if (selected[k]==null || !selected[k].exists() ||
        selected[k].isDirectory())
        continue; // Just in case...
    setStatus("Adding "+selected[k].getName());

    // Add file entry
    ZipEntry zipAdd = new ZipEntry(selected[k].getName());
    zipAdd.setTime(selected[k].lastModified());

//JarEntry jarAdd = new JarEntry(selected[k].getName());
//jarAdd.setTime(selected[k].lastModified());

    out.putNextEntry(zipAdd);
    // Read input & write to output
    FileInputStream in = new FileInputStream(selected[k]);
    while (true)
    {
        int nRead = in.read(buffer, 0, buffer.length);
        if (nRead <= 0)
            break;
        out.write(buffer, 0, nRead);
    }
    in.close();
}
out.close();
stream.close();
setStatus("Adding completed OK");
```

# Code Extracted Zip/Jar File

```
//if JAR
//JarFile zipFile = new JarFile(fileSelect);

byte buffer[] = new byte[BUFFER_SIZE];
// Open the archive file
FileInputStream stream = new FileInputStream(selZipFile);
ZipInputStream in = new ZipInputStream(stream);

// Find archive entry
while (true)
{
    ZipEntry zipExtract = in.getNextEntry();
    if (zipExtract == null)
        break;

    setStatus("Extracting "+zipExtract.getName());

    // Create output file and check required directory
    File outFile = new File(outputDir,zipExtract.getName());
    File parent = outFile.getParentFile();
    if (parent != null && !parent.exists())
        parent.mkdirs();

    // Extract unzipped file
    FileOutputStream out = new FileOutputStream(outFile);
    while (true)
    {
        int nRead = in.read(buffer,
                            0, buffer.length);
        if (nRead <= 0)
            break;
        out.write(buffer, 0, nRead);
    }
    out.close();
    in.closeEntry();
}
}
```

# Popup Menu and Button Listener

```
• class menuListener implements ActionListener {
•     public void actionPerformed(ActionEvent e) {
•         //run with
•         if (e.getActionCommand() == "Zip")
•             {
•                 Thread runner1 = new Thread() {
•                     public void run() {
•                         try {
•                             runZipFile(myFileExplorer.getSelectedFile());
•                         }
•                         catch (Exception e){System.out.println(e);}
•                     }
•                 };
•                 runner1.start();
•             }
•     }
```

```
String stringChoose = ev.getActionCommand();
    if(stringChoose=="ApproveSelection")
    {
if(myFile.endsWith(".txt") ) runFile(TEXT_PROGRAM,file);
if(myFile.endsWith(".xls") ||myFile.endsWith(".odl")) runFile(SHEET_PROGRAM,file);
if(myFile.endsWith(".jpg")||myFile.endsWith(".png") ) runFile(IMAGE_PROGRAM,file);
if(myFile.endsWith(".doc")||myFile.endsWith(".odt") ) runFile(DOKU_PROGRAM,file);
if(myFile.endsWith(".html")||myFile.endsWith(".php") ) runFile(WEB_PROGRAM,file);
if(myFile.endsWith(".java") ) runFile(JAVA_PROGRAM,file);
if(myFile.endsWith(".jar") ) runFile(JAR_PROGRAM,file);
    }
```

# Source Code

- The completed source code is inside the directory in file of javageo group or
- <http://www.javageo.com>
- You can download the source code...  
Play ,Modify and be succesfull with it...!  
Good luck !!

See you on next volume and series !!