

Java Application: ShowFolderSize

Written by: Keith Fenske, <http://kwfenske.github.io/>

First version: Friday, 28 February 2014

Document revised: Thursday, 11 March 2021

Copyright © 2014 by Keith Fenske. Apache License or GNU General Public License.

Description

ShowFolderSize is a Java 1.4 console application to display the total size of files in folders named on the command line, with or without subfolders included. The TEMP folder in the following example has 5 files plus 19 more in three subfolders, for a total of 24 files:

```
java ShowFolderSize1 D:\TEMP
```

```
TEMP = 207.3 MB in 24 files and 3 subfolders.
```

```
  BACKUP = 176.7 MB in 9 files.
```

```
  DOWNLOAD = 80.9 KB in 8 files.
```

```
  UPLOAD = 196.6 KB in 2 files.
```

Redirect output to a text file, and save as CSV if desired (comma-separated values). Options go before folder names on the command line:

- ? = -help = show summary of command-line syntax
- b -kb -mb -gb -tb = show sizes in kilobytes, megabytes, etc.
- c0 = ignore uppercase/lowercase in subfolder names (default)
- c1 = -c = strict Unicode order for case in subfolder names
- i# = incremental left indent for subfolders; default is -i2
- m0 = report details for each folder, but don't add subfolders
- m1 = report details for each folder plus subfolders (default)
- m2 = show excessive details about every folder and subfolder
- r# = maximum subfolder depth to report; default is -r9
- s# = maximum subfolder depth to search; default is -s99
- v0 = output as formatted text with -b or -m options (default)
- v1 = -v = output as raw comma-separated values (see source code)

There is no graphical interface (GUI) for this program; it must be run from a command prompt, command shell, or terminal window. Folders are reported in the same order as they are given on the command line. The order of subfolders depends upon the “case” option. The character set for folder names is limited to the locale's default by `System.out.println()`; replace this with an explicit output file if you want Unicode or UTF-8.

Apache License or GNU General Public License

ShowFolderSize is free software and has been released under the terms and conditions of the Apache License (version 2.0 or later) and/or the GNU General Public License (GPL, version 2 or later). This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the license(s) for more details. You should have received a copy of the licenses along with this program. If not, see the <http://www.apache.org/licenses/> and <http://www.gnu.org/licenses/> web pages.

Installation

You must have the Java run-time environment (JRE) installed on your computer. ShowFolderSize was developed with Java 1.4 and should run on later versions. It may also run on earlier versions, but this has not been tested. You can download the JRE from Oracle (formerly Sun Microsystems):

JRE for end users: <http://www.java.com/download/>

SDK for programmers: <http://www.oracle.com/java/> or the OpenJDK builds

IDE for programmers: <http://www.eclipse.org/> or <http://www.netbeans.org/>

Once Java is installed, you need to put the program files for ShowFolderSize into a folder (directory) on your hard drive. The name of the folder and the location are your choice, except it is easier if the name does not include spaces. Assume that files will go into a “C:\Java” folder. Then create the folder and unpack the Java *.class files into this folder (if you received the program as a ZIP file). The files look something like this:

ApacheLicense20.txt (12 KB, legal notice)

GnuPublicLicense3.txt (35 KB, legal notice)

RunJavaPrograms.pdf (60 KB, more notes about running Java)

ShowFolderSize1.class (9 KB, executable program)

ShowFolderSize1.doc (30 KB, this documentation in Microsoft Word format)

ShowFolderSize1.jar (6 KB, archive file with same class files inside)

ShowFolderSize1.java (29 KB, source code)

ShowFolderSize1.manifest (1 KB, main class manifest for archive file)

ShowFolderSize1.pdf (69 KB, this documentation in Adobe Acrobat format)

ShowFolderSize1Data.class (1 KB, helper class for main program)

To run the program on Windows, start a DOS command prompt, which is Start button, Programs, Accessories, Command Prompt on Windows XP/Vista/7. Change to the folder with the program files and run the program with a “java” command:

```
c:  
cd \java  
java ShowFolderSize1
```

The program name “ShowFolderSize1” must appear exactly as shown; uppercase and lowercase letters are different in Java names. One complication may arise when trying to run this program. Java looks for an environment variable called CLASSPATH. If it finds this variable, then that is a list of folders where it looks for *.class files. It won’t look anywhere else, not even in the current directory, unless the path contains “.” as one of the choices. The symptom is an error message that says:

```
Exception in thread "main" java.lang.NoClassDefFoundError: ShowFolderSize1
```

To find out if your system has a CLASSPATH variable defined, type the following command in a DOS window:

```
set CLASSPATH
```

To temporarily change the CLASSPATH variable to the current directory, use the following command line:

```
java -cp . ShowFolderSize1
```

To permanently change the CLASSPATH, you must find where it is being set. This is in Control Panel, System, Advanced, Environment Variables on Windows XP/Vista/7.

Removal or Uninstall

To remove this program from your computer, delete the installation files listed above. If the folder that contained the files is now empty, you may also delete the folder ... if you created the folder, of course, not the system. If you created desktop shortcuts or Start menu items, then delete those too. There are no hidden configuration or preference files, and no information is stored in the Windows system registry. You don’t need an “uninstall” program.

file: ShowFolderSize1.doc 2021-10-26