Documentation

The Java™ Tutorials

Trail: Deployment

Lesson: Packaging Programs in JAR Files **Section:** Working with Manifest Files: The Basics

The Java Tutorials have been written for JDK 8. Examples and practices described in this page don't take advantage of improvements introduced in later releases.

Modifying a Manifest File

You use the m command-line option to add custom information to the manifest during creation of a JAR file. This section describes the m option.

The Jar tool automatically puts a default manifest with the pathname META-INF/MANIFEST.MF into any JAR file you create. You can enable special JAR file functionality, such as package sealing, by modifying the default manifest. Typically, modifying the default manifest involves adding special-purpose headers to the manifest that allow the JAR file to perform a particular desired function.

To modify the manifest, you must first prepare a text file containing the information you wish to add to the manifest. You then use the Jar tool's m option to add the information in your file to the manifest.

Warning: The text file from which you are creating the manifest must end with a new line or carriage return. The last line will not be parsed properly if it does not end with a new line or carriage return.

The basic command has this format:

jar cfm jar-file manifest-addition input-file(s)

Let's look at the options and arguments used in this command:

- The c option indicates that you want to *create* a JAR file.
- The m option indicates that you want to merge information from an existing file into the manifest file of the JAR file you're creating.
- The f option indicates that you want the output to go to a file (the JAR file you're creating) rather than to standard output.
- manifest-addition is the name (or path and name) of the existing text file whose contents you want to add to the contents of JAR file's manifest.
- jar-file is the name that you want the resulting JAR file to have.
- The input-file(s) argument is a space-separated list of one or more files that you want to be placed in your JAR file.

The $\ensuremath{\mathtt{m}}$ and $\ensuremath{\mathtt{f}}$ options must be in the same order as the corresponding arguments.

Note: The contents of the manifest must be encoded in UTF-8.

The remaining sections of this lesson demonstrate specific modifications you may want to make to the manifest file.

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