

## CommonJavaJars - A package with useful libraries for Java GUIs

To reduce the package size of other R packages with Java GUIs and to reduce jar file conflicts, this package provides a few commonly used Java libraries.

You should be able to load them by calling the `rJava .jpackage` function (a good place is most likely the `.onLoad` function of your package):

```
.jpackage("CommonJavaJars", jars=c("forms-1.2.0.jar", "iText-2.1.4.jar"))
```

But since the version numbers of the jar files in `CommonJavaJars` can change, best practice is to use the function `loadJars` and to specify only an unambiguous part of the name, if there are no reasons not to use the latest version:

```
loadJars(c("forms", "iText"))
```

We provide the following Java libraries:

- Apache Commons Logging under the Apache License, Version 2.0, January 2004, <http://commons.apache.org/logging/>, Copyright 2001-2007 The Apache Software Foundation
- Apache jog4j under Apache License 2.0, <http://logging.apache.org/log4j/>, Copyright 2007 The Apache Software Foundation
- Apache Commons Lang under Apache License 2.0, <http://commons.apache.org/lang/>, Copyright 2001-2011 The Apache Software Foundation
- Apache Commons Collections under the Apache License, Version 2.0, January 2004, <http://commons.apache.org/collections/>, Copyright 2001-2008 The Apache Software Foundation
- Apache Commons Validator under the Apache License, Version 2.0, January 2004, <http://commons.apache.org/validator/>, Copyright 2001-2010 The Apache Software Foundation
- Apache Commons IO under the Apache License, Version 2.2 (last compatible with JDK 1.5), 2004, <http://commons.apache.org/io/>, Copyright 2002-2012 The Apache Software Foundation
- JLaTeXMath under GPL  $\geq$  2.0, <http://forge.scilab.org/index.php/p/jlatexmath/>, Copyright 2004-2007, 2009 Calixte, Coolsaet, Cleemput, Vermeulen and Universiteit Gent
- iText 2.1.4 under LGPL, <http://itextpdf.com/>, Copyright by Bruno Lowagie
- SwingWorker under LGPL, <https://swingworker.dev.java.net/>, Copyright (c) 2005 Sun Microsystems
- JXLayer under BSD License, <https://jxlayer.dev.java.net/>, Copyright 2006-2009, Alexander Potochkin
- JGoodies Forms and Commons under BSD License, <http://www.jgoodies.com/freeware/forms/>, Copyright JGoodies Karsten Lentzsch
- JSON Processing dual licensed under CDDL 1.1 and GPL 2 with Classpath Exception, <https://jsonp.java.net/>, Copyright (c) 2011-2013 Oracle
- AFCommons under the LGPL  $\geq$  2.1, <https://github.com/kornl/afcommons/>, Copyright (c) 2007-2014 by Kornelius Rohmeyer, Bernd Bischl, Santhosh Kumar T (ComponentTitledBorder class), Jerry Huxtable (filter code), Sebastian Haufe (JListDnD class), Romain Guy (Star class), Oracle (CloseTabPanel)
- JHLIR under BSD License, <http://jhlir.r-forge.r-project.org/>, Copyright (c) 2008-2010 by Bernd Bischl and Kornelius Rohmeyer
- JRIEngine and REngine under LGPL-2.1, <http://www.rforge.net/rJava/>, Copyright 2010 by Simon Urbanek. Please use these two jar files only if package `rJava` does not provide them.

Please note that we only recommend to use JRIEngine and REngine from this package if the rJava version is less than 0.8-3. Otherwise the package rJava provides these jar files.

```
# The following few lines are based on the code of the rJava .jpackage function
if (!is.null(sessionInfo()$otherPkgs$rJava$Version) && sessionInfo()$otherPkgs$rJava$Version < "0.8-3") {
  classes <- system.file("R28", package = "CommonJavaJars", lib.loc = NULL)
  if (nchar(classes)) {
    .jaddClassPath(classes)
    jars <- grep(".*\\.jar", list.files(classes, full.names = TRUE), TRUE, value = TRUE)
    if (length(jars)) {
      .jaddClassPath(jars)
    }
  }
}
# Otherwise load from rJava.
```