

Package ‘RImageJ’

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Title R bindings for ImageJ

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Description Bindings between R and the ImageJ java based image processing and Analysis platform

Depends R (>= 2.11.0), rJava (>= 0.8-0), grDevices

SystemRequirements Java (>= 5.0)

License GPL (>= 3.0)

URL <http://rsbweb.nih.gov/ij/index.html>,
<http://romainfrancois.blog.free.fr/index.php?category/R-package/RImageJ>

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RImageJ-package

R bindings for ImageJ

Description

Bindings between R and the Java based image processing and analysis platform ImageJ.

Details

Package: RImageJ
Type: Package
Version: 0.2-145
Date: 2010-10-11
License: GPL-3
LazyLoad: yes

On certain Mac OS X systems (like Snow Leopard), it is impossible to start AWT from rJava started from R.app or from the terminal. Since ImageJ depends on AWT, it will not run. The solution is to use R and RImageJ from within JGR <http://www.rforge.net/JGR/>.

Author(s)

Romain Francois & Philippe Grosjean for the R package Wayne Rasband for ImageJ

Maintainer: Romain Francois <romain@r-enthusiasts.com>

References

ImageJ: <http://rsbweb.nih.gov/ij/index.html>

as.raster.jobjRef

Support for converting ImageJ images to raster images

Description

Support for converting ImageJ images to raster images.

Usage

```
## S3 method for class 'jobjRef'  
as.raster(x, ...)
```

Arguments

x A java reference of class 'ij.ImagePlus'.
... Not used.

Value

A raster object. See [as.raster](#).

Author(s)

Contributed by Paul Murrell <http://www.stat.auckland.ac.nz/~paul/>

See Also

[as.raster](#), [raster](#)

Examples

```
## Not run:  
## Load an image in ImageJ  
logo <- system.file("images", "R.jpg", package = "RImageJ")  
image <- IJ$openImage(logo)  
## Use this image in a R plot  
plot(c(100, 250), c(300, 450), type = "n", xlab = "", ylab = "")  
rasterImage(image, 100, 300, 150, 350, interpolate = FALSE)  
rasterImage(image, 100, 400, 150, 450)  
rasterImage(image, 200, 300, 200 + xinch(.5), 300 + yinch(.3), interpolate = FALSE)  
rasterImage(image, 200, 400, 250, 450, angle = 15, interpolate = FALSE)  
  
## End(Not run)
```

IJ

IJ object

Description

This represents an object of class `ij.IJ` created when the `RImageJ` package is loaded.

Usage

`IJ`

Format

This is a Java object, instance of the class `ij.IJ`, that is created when the package is loaded.

Details

The ImageJ macro language is basically made of calls to methods of the IJ class. This object allows to mimic the macro language by using the convenient dollar notation. See examples below.

References

The Java documentation of the class IJ: <http://rsbweb.nih.gov/ij/developer/api/ij/IJ.html>

ImageJ macro language: <http://rsbweb.nih.gov/ij/developer/macro/macros.html>

See Also

[IJWindowManager](#)

Examples

```
## Not run:
## Load a JPEG image in ImageJ and show it
logo <- system.file("images", "R.jpg", package = "RImageJ")
image <- IJ$openImage(logo)
image$show()
## Manipulate this image in ImageJ
IJ$run("8-bit")
IJ$run("Invert")
## ... and close it
image$close()

## End(Not run)
```

IJWindowManager

IJ WindowManager object

Description

This represents an object of class `ij.WindowManager` created when the `RImageJ` package is loaded. This Java class manages all ImageJ windows.

Usage

```
IJWindowManager
```

Format

This is a Java object, instance of the class `ij.WindowManager`, that is created when the package is loaded.

References

The Java documentation of the class WindowManager: <http://rsbweb.nih.gov/ij/developer/api/ij/WindowManager.html>

See Also

[IJ](#)

Examples

```
## Not run:  
## Get the number of currently opened ImageJ windows  
IJWindowManager$imageCount()  
## Close all currently opened ImageJ windows  
IJWindowManager$closeAllWindows()  
  
## End(Not run)
```

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