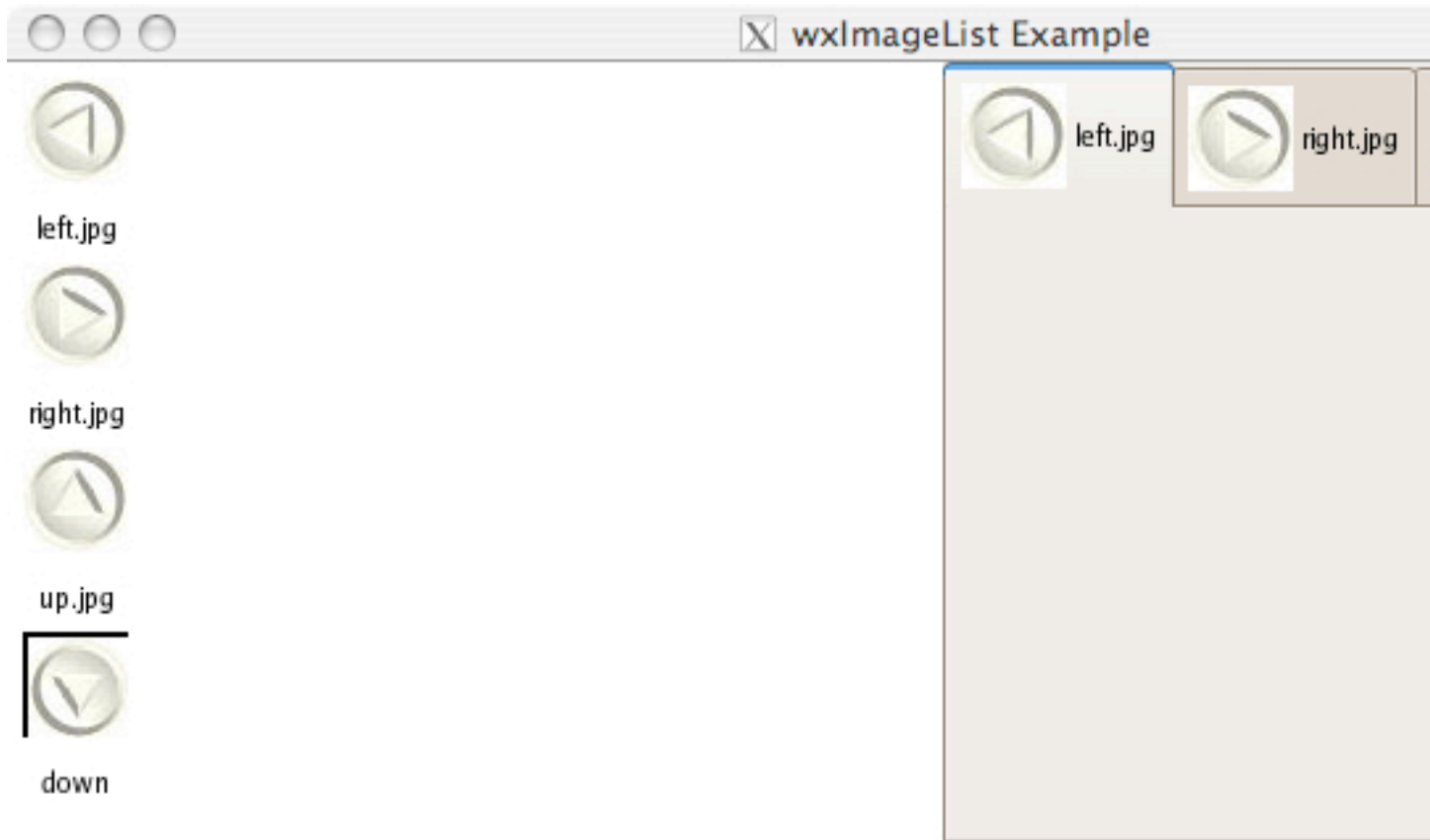


Table of Contents

Using the wxImageList. 1

Using the wxImageList.

In this article we aim to show how to use the wxImageList in combination with some of the widgets such as wxListCtrl. The result is



We start by initializing the R session for use with RwxWidgets.

```
library(RwxWidgets)
wxInit()
```

```
wxNullBitmap = getWxNullBitmap()
```

Next, we load several images. We use the three icons of the same size in the R distribution.

```
imageNames = list.files(paste(Sys.getenv("R_HOME"), "doc", "html", sep = .Platform
                             "(left|right|up)\\.jpg$", full.names = TRUE)
imageType = wxBITMAP_TYPE_JPEG
```

Now, we create the image list and load these images and insert them into the list.

```

images = wxImageList()
sapply(imageNames, function(filename) images$Add(wxBitmap(filename, imageType)))

imageNames = c(imageNames, "down")
tmp = as(images[[3]], "wxImage")$Rotate(pi, c(20, 20))
tmp = tmp$Rescale(images[[3]]$GetWidth(), images[[3]]$GetHeight())
down = as(tmp, "wxBitmap")
images$Add(down)

```

At this point, we can use the images in a GUI. So we create a top-level window and a `wxListCtrl` and then associate the `wxImageList` with this widget. Note that we use `SetImageList` and so we continue to own and manage the image list.

```

f = RFrame("wxImageList Example", size = c(600, 300))
win = wxSplitterWindow(f, wxID_ANY)
li = wxListCtrl(win)
book = wxNotebook(win, size = c(400, 300))
win$SplitVertically(li, book)

```

And now we add entries to the `wxListCtrl`. We put the name of each image and associate it with that image.

```

li$SetImageList(images, wxIMAGE_LIST_NORMAL)
sapply(seq(along = imageNames),
       function(i) {
         li$InsertItem(i - 1, basename(imageNames[i]), i-1)
       })

book$SetImageList(images)
sapply(seq(along = imageNames),
       function(i) {
         book$AddPage(wxPanel(book), basename(imageNames[i]), FALSE, i-1)
       })

```

And finally we display the top-level window and run the event loop.

```

f$Show()
eloop = wxEventLoop()
wxEventLoop_Run(eloop)

```