

Visualization of data from assays in microtitre plate or slide format

Wolfgang Huber

April 30, 2018

The `splots` package provides a single function, `plotScreen`, for visualising data in microtitre plate or slide format. Here we show a short demo of its parameters. First, we generate example data:

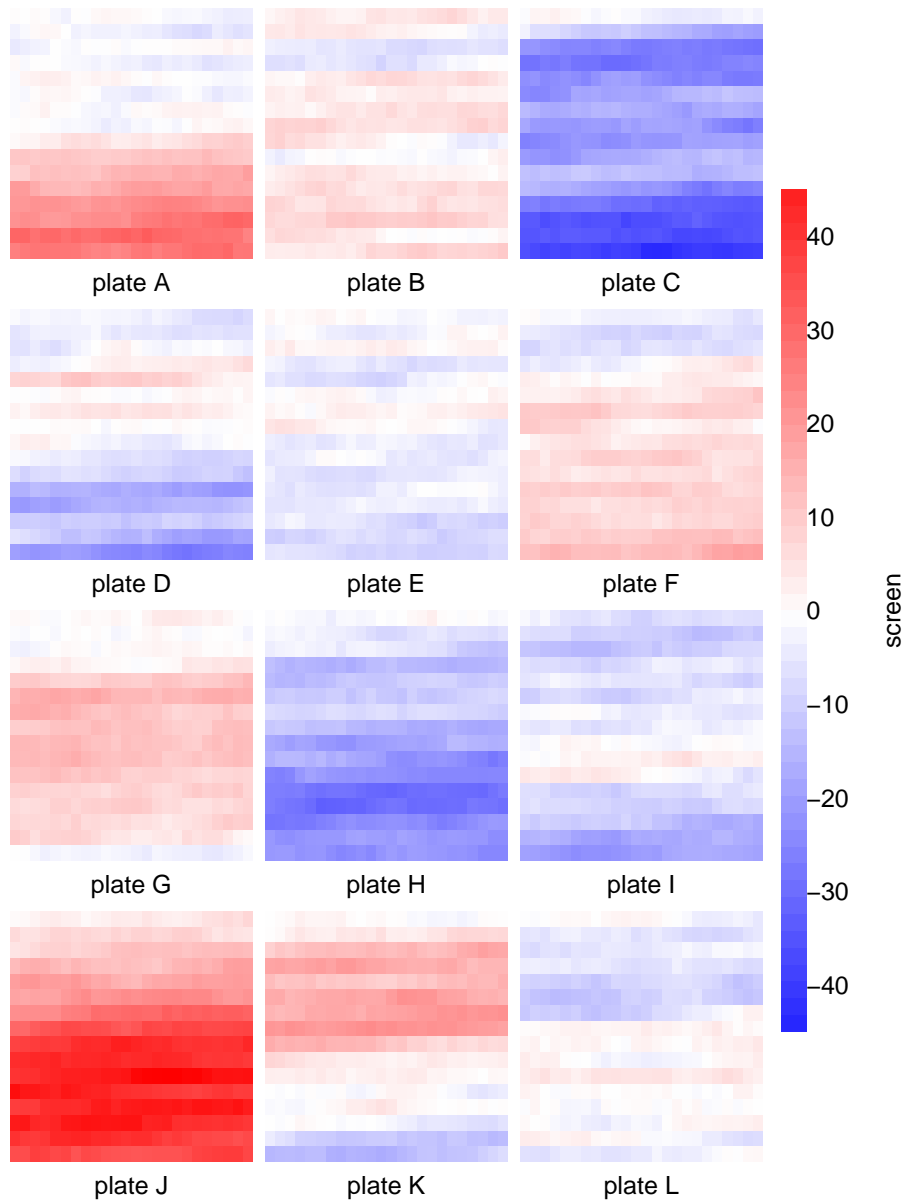
```
> library("splots")
> screen = lapply(1:12, function(i) cumsum(rnorm(384)))
> names(screen) = paste("plate", LETTERS[seq(along=screen)])
```

```
> toLatex(sessionInfo())
```

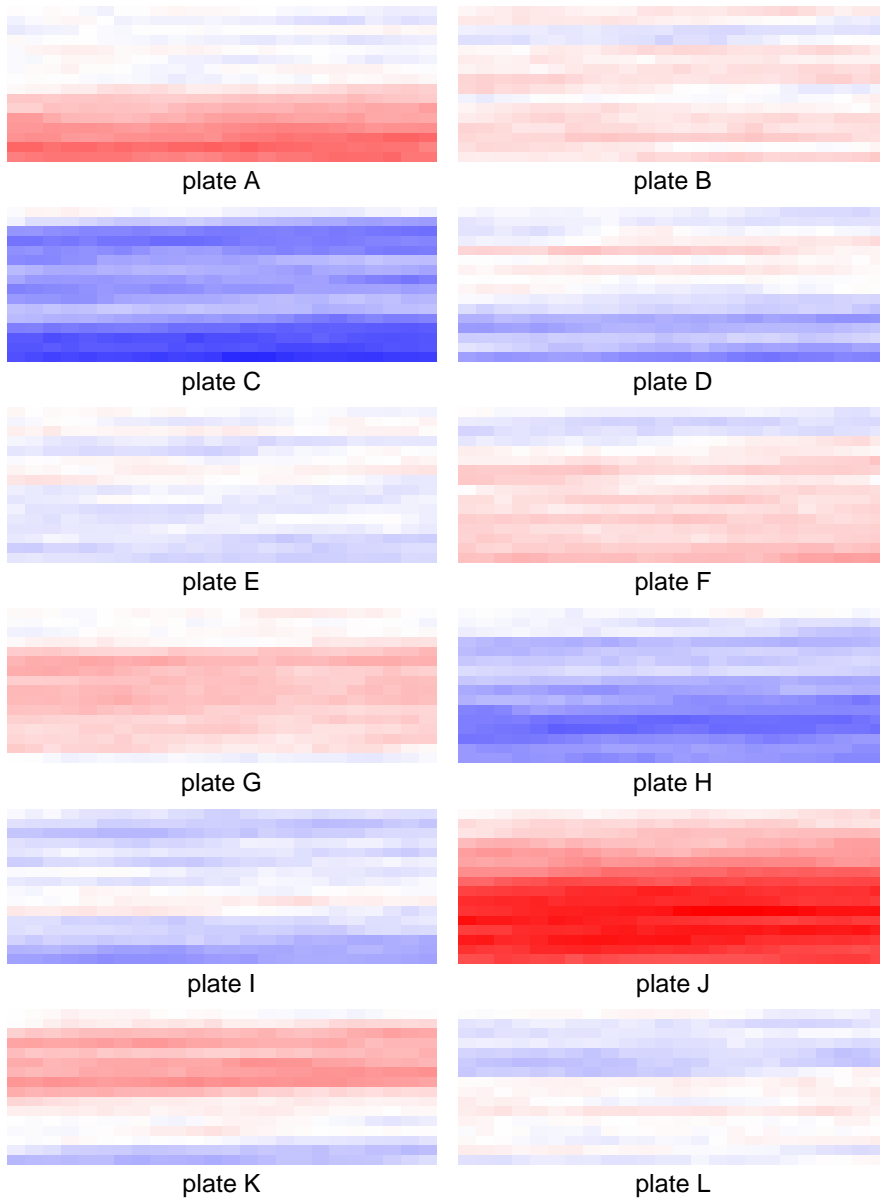
- R version 3.5.0 (2018-04-23), x86_64-w64-mingw32
- Locale: LC_COLLATE=C, LC_CTYPE=English_United States.1252, LC_MONETARY=English_United States.1252, LC_NUMERIC=C, LC_TIME=English_United States.1252
- Running under: Windows Server 2012 R2 x64 (build 9600)
- Matrix products: default
- Base packages: base, datasets, grDevices, graphics, methods, stats, utils
- Other packages: splots 1.46.0
- Loaded via a namespace (and not attached): RColorBrewer 1.1-2, compiler 3.5.0, grid 3.5.0, tools 3.5.0

Table 1: The output of `sessionInfo` on the build system after running this vignette.

```
> plotScreen(screen, ncol=3)
```



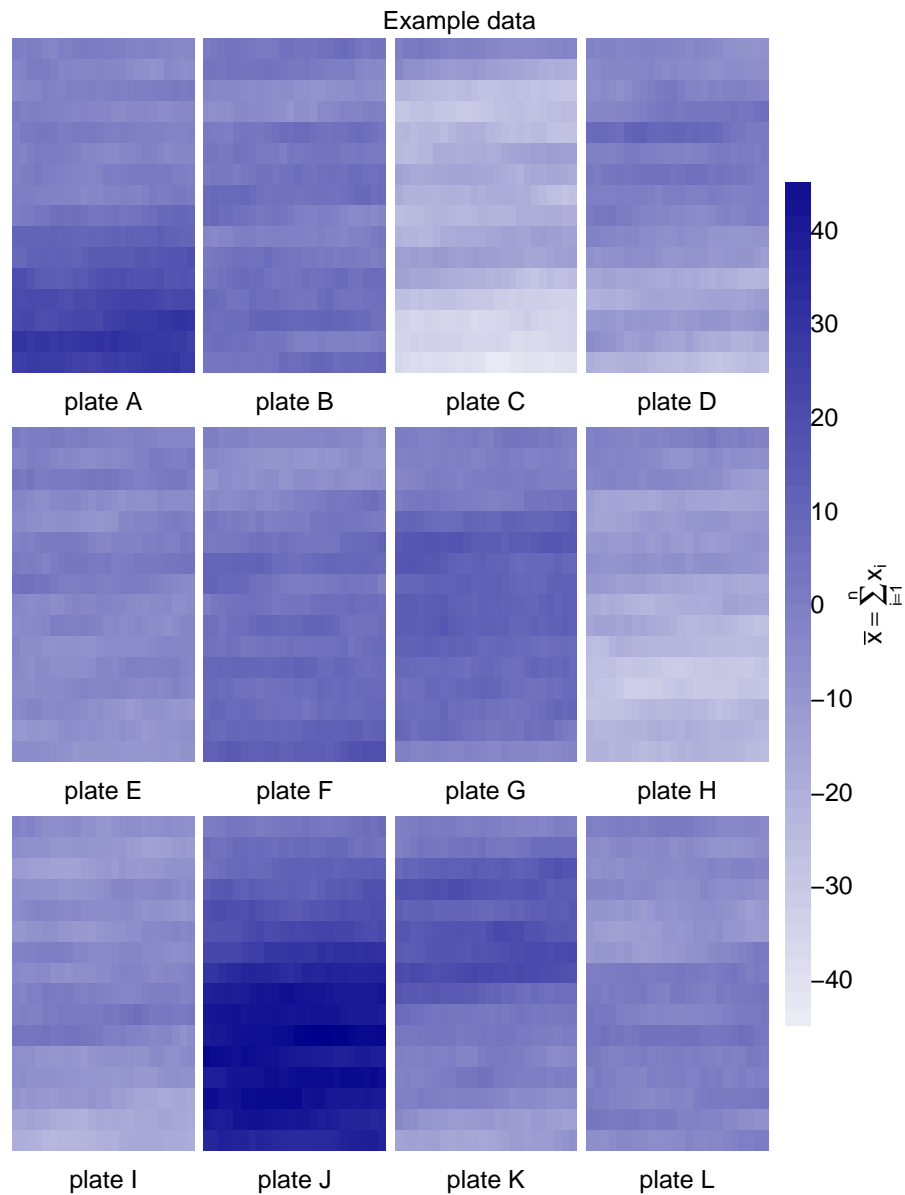
```
> plotScreen(screen, ncol=2, do.legend=FALSE)
```



```

> plotScreen(screen, ncol=4, fill=c("white", "darkblue"),
+           main="Example data",
+           legend.label=expression(bar(x) == sum(x[i], i==1, n)))

```



```

> for(i in seq(along=screen))
+   screen[[i]][sample(384, 5)] = NA
> plotScreen(screen, ncol=4, do.names=FALSE,
+           main="Example data", legend.label="Legend label")

```

