

# Visualization of data from assays in microtitre plate or slide format

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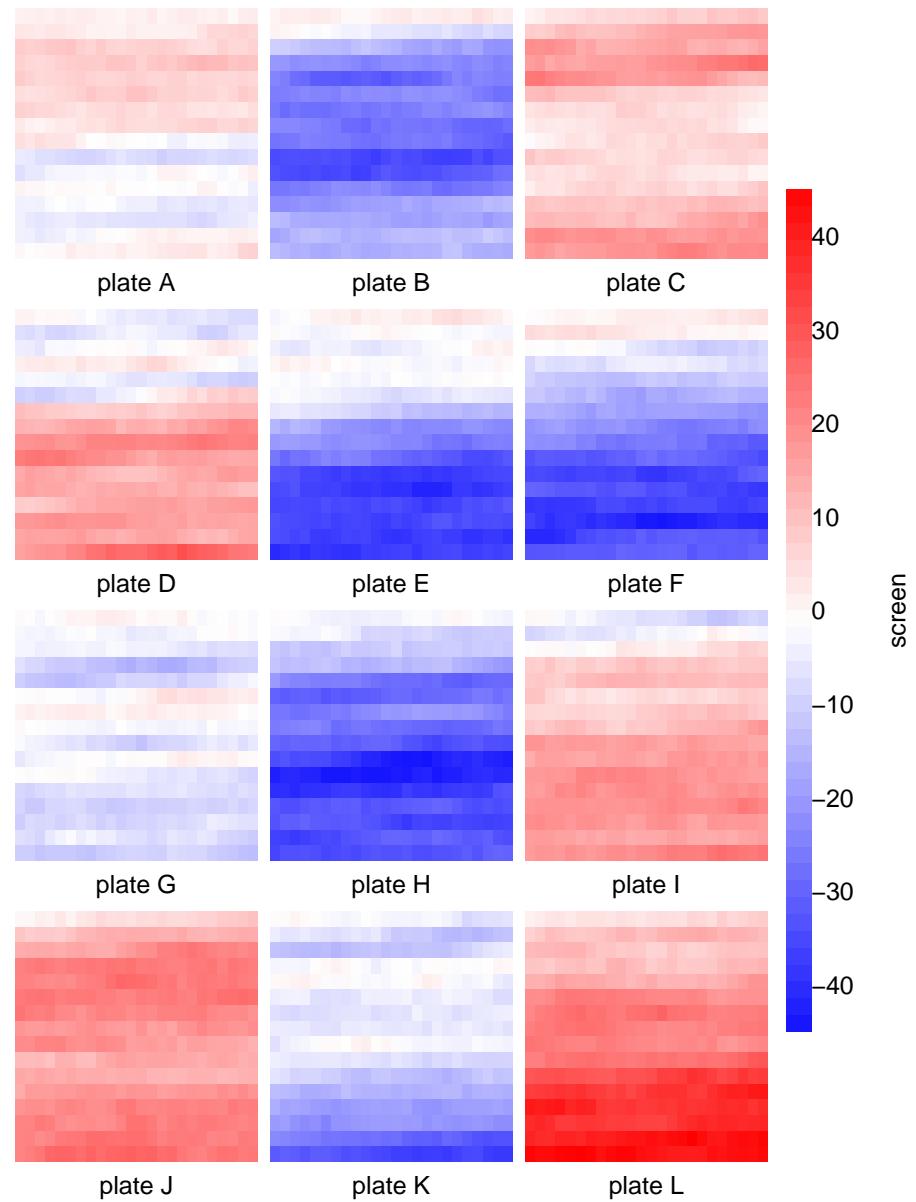
The `splots` package provides a single function, `plotScreen`, for visualising data in microtitre plate or slide format. Here we show a short demo of its parameters. First, we generate example data:

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

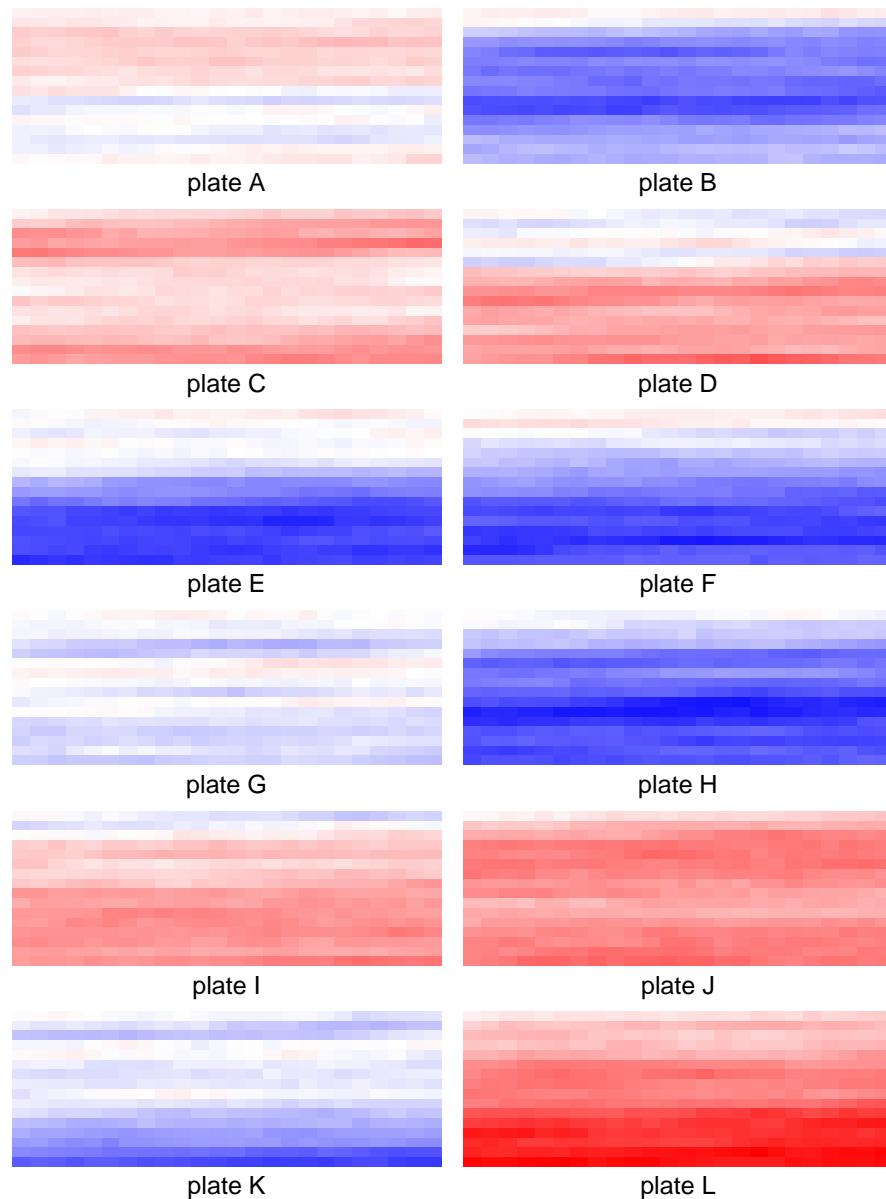
```
> toLatex(sessionInfo())
• R version 4.0.0 (2020-04-24), x86_64-pc-linux-gnu
• Locale: LC_CTYPE=en_US.UTF-8, LC_NUMERIC=C, LC_TIME=en_US.UTF-8, LC_COLLATE=C,
  LC_MONETARY=en_US.UTF-8, LC_MESSAGES=en_US.UTF-8, LC_PAPER=en_US.UTF-8,
  LC_NAME=C, LC_ADDRESS=C, LC_TELEPHONE=C, LC_MEASUREMENT=en_US.UTF-8,
  LC_IDENTIFICATION=C
• Running under: Ubuntu 18.04.4 LTS
• Matrix products: default
• BLAS: /home/biocbuild/bbs-3.11-bioc/R/lib/libRblas.so
• LAPACK: /home/biocbuild/bbs-3.11-bioc/R/lib/libRlapack.so
• Base packages: base, datasets, grDevices, graphics, methods, stats, utils
• Other packages: splots 1.54.0
• Loaded via a namespace (and not attached): RColorBrewer 1.1-2, compiler 4.0.0,
  grid 4.0.0, tools 4.0.0
```

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

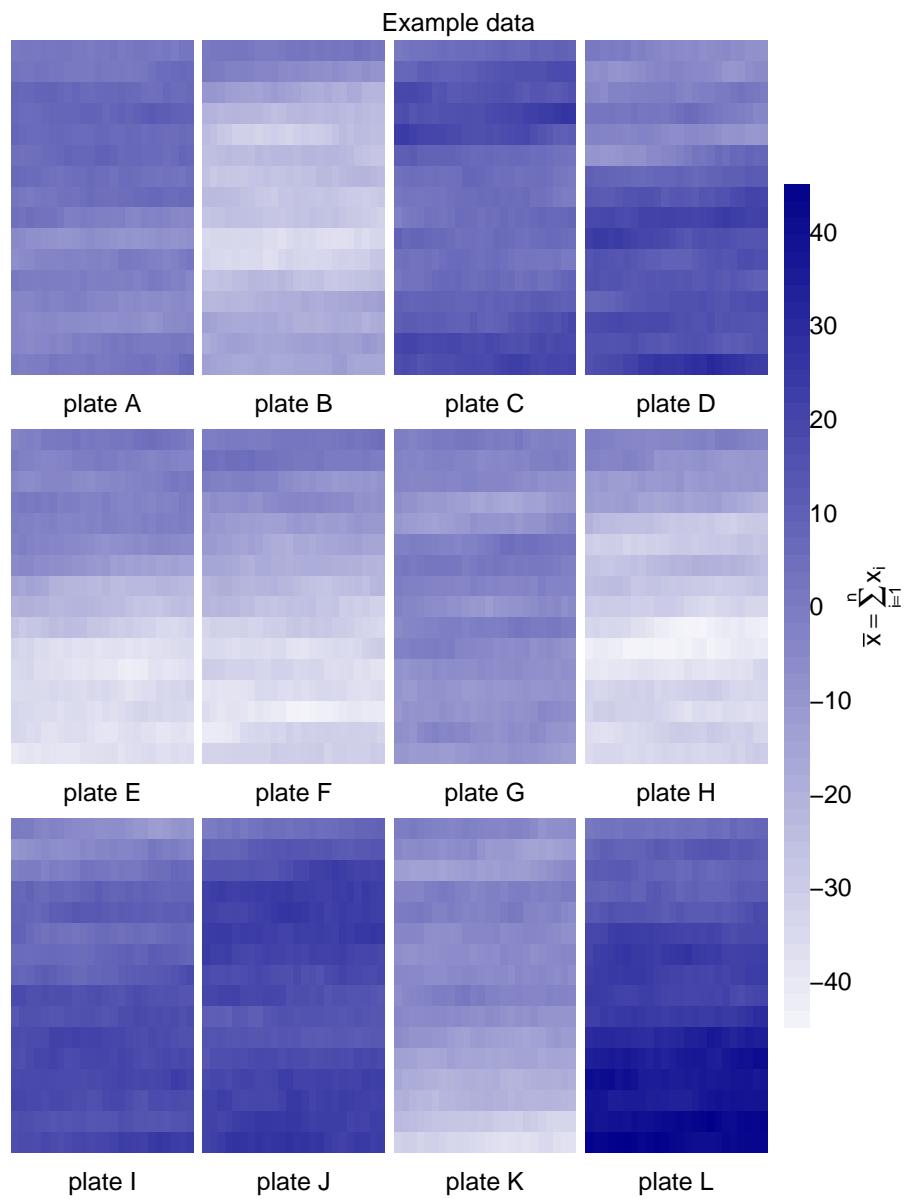
```
> plotScreen(screen, ncol=3)
```



```
> 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")
```

