

# 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:

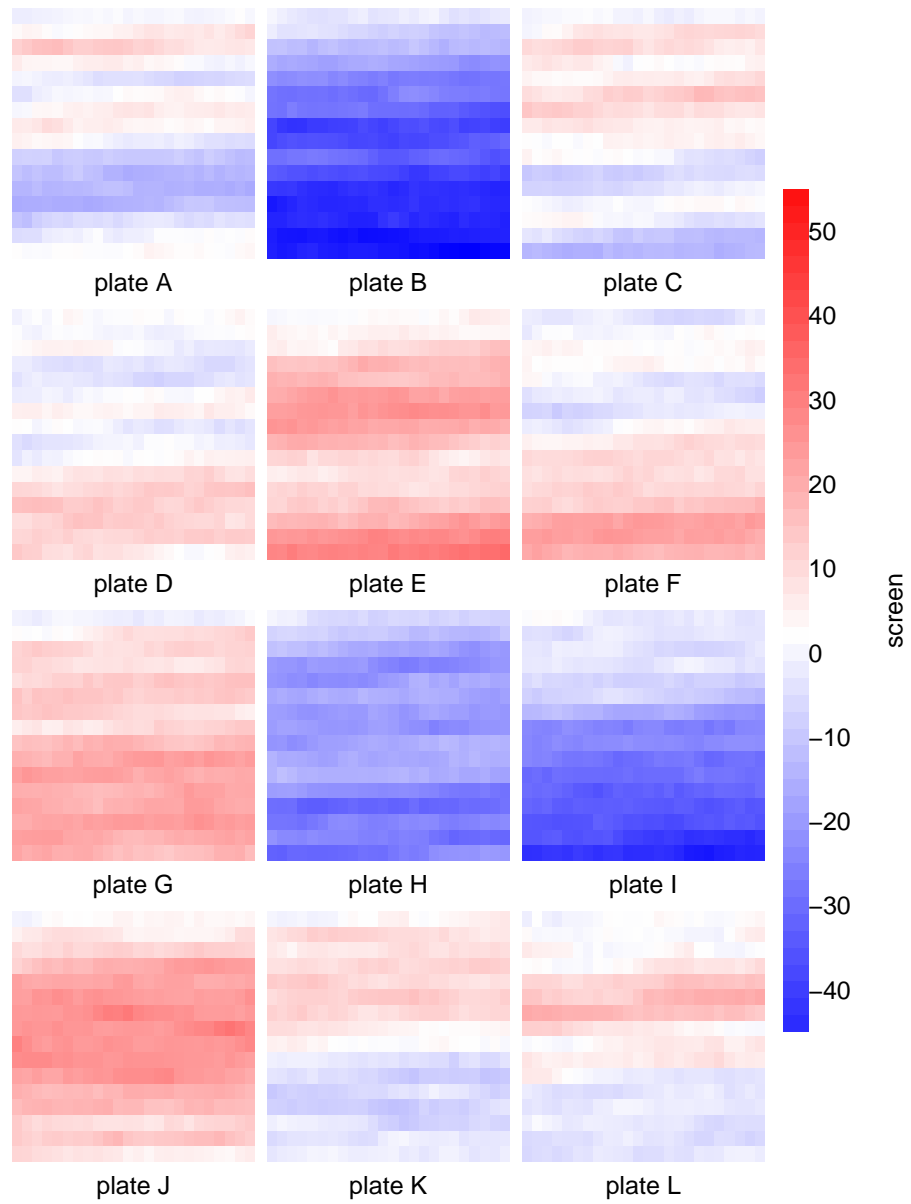
```
> library("splots")
> screen = lapply(1:12, function(i) cumsum(rnorm(384)))
> names(screen) = paste("plate", LETTERS[seq(along=screen)])
```

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

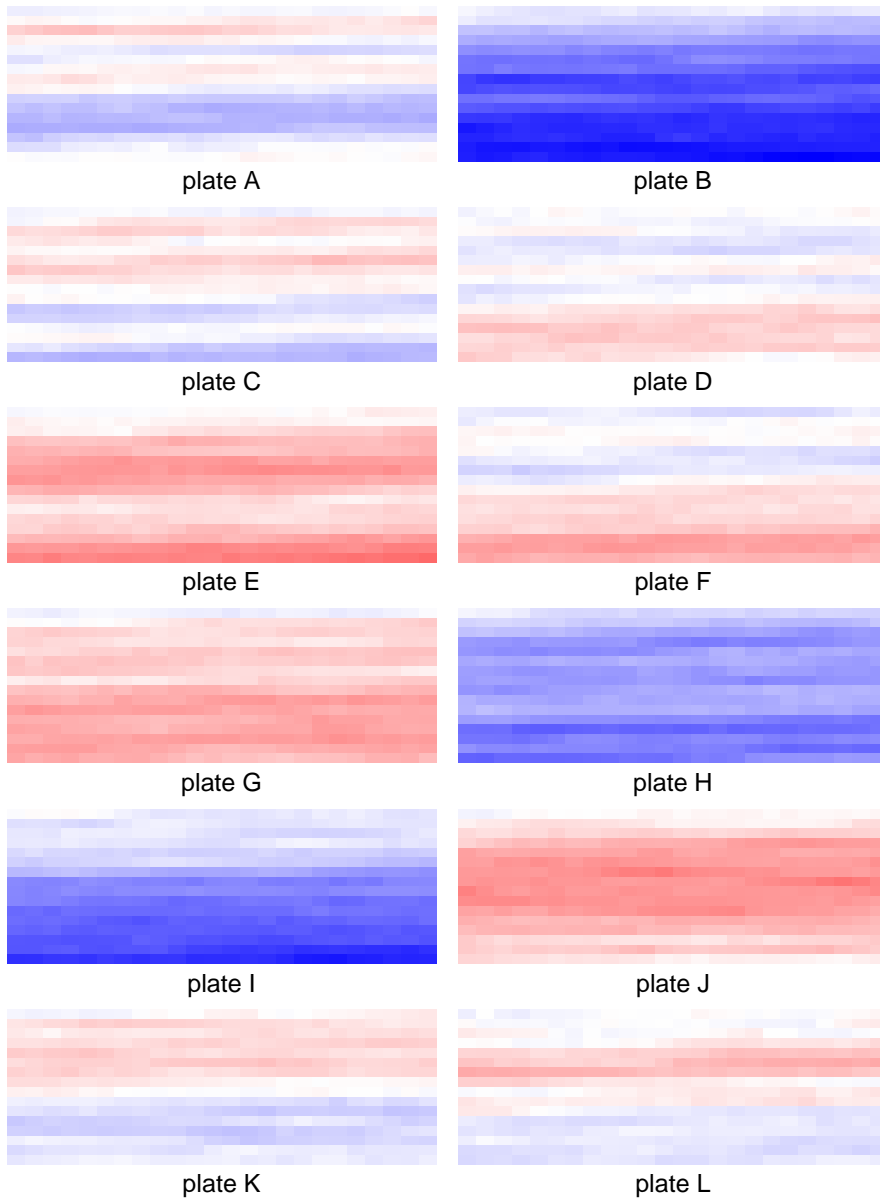
- R version 3.5.1 Patched (2018-07-12 r74967), x86\_64-apple-darwin15.6.0
- Locale: C/en\_US.UTF-8/en\_US.UTF-8/C/en\_US.UTF-8/en\_US.UTF-8
- Running under: OS X El Capitan 10.11.6
- Matrix products: default
- BLAS:  
/Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib
- LAPACK:  
/Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib
- Base packages: base, datasets, grDevices, graphics, methods, stats, utils
- Other packages: splots 1.48.0
- Loaded via a namespace (and not attached): RColorBrewer 1.1-2, compiler 3.5.1,  
grid 3.5.1, tools 3.5.1

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

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



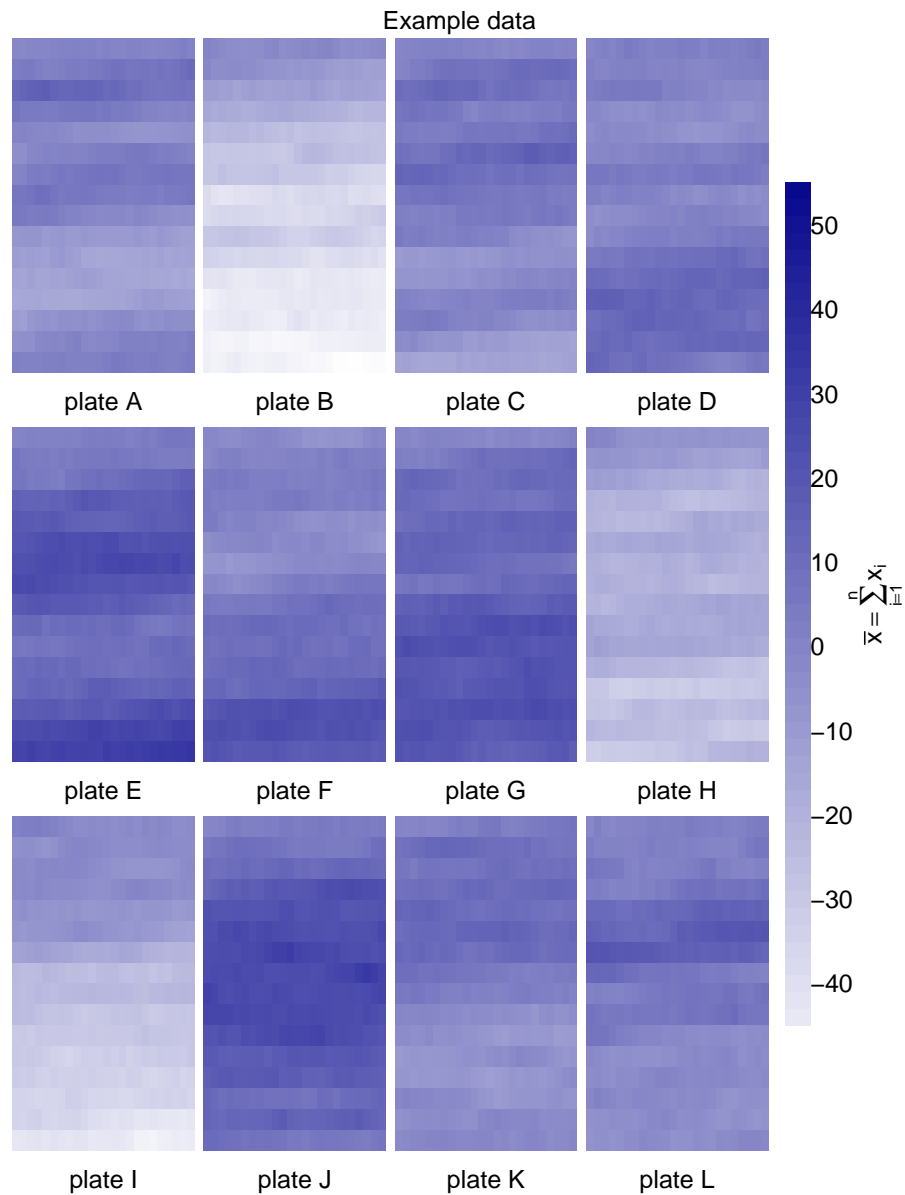
```
> plotScreen(screen, ncol=2, do.legend=FALSE)
```



```

> 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")

```

