Das Lattice Paket

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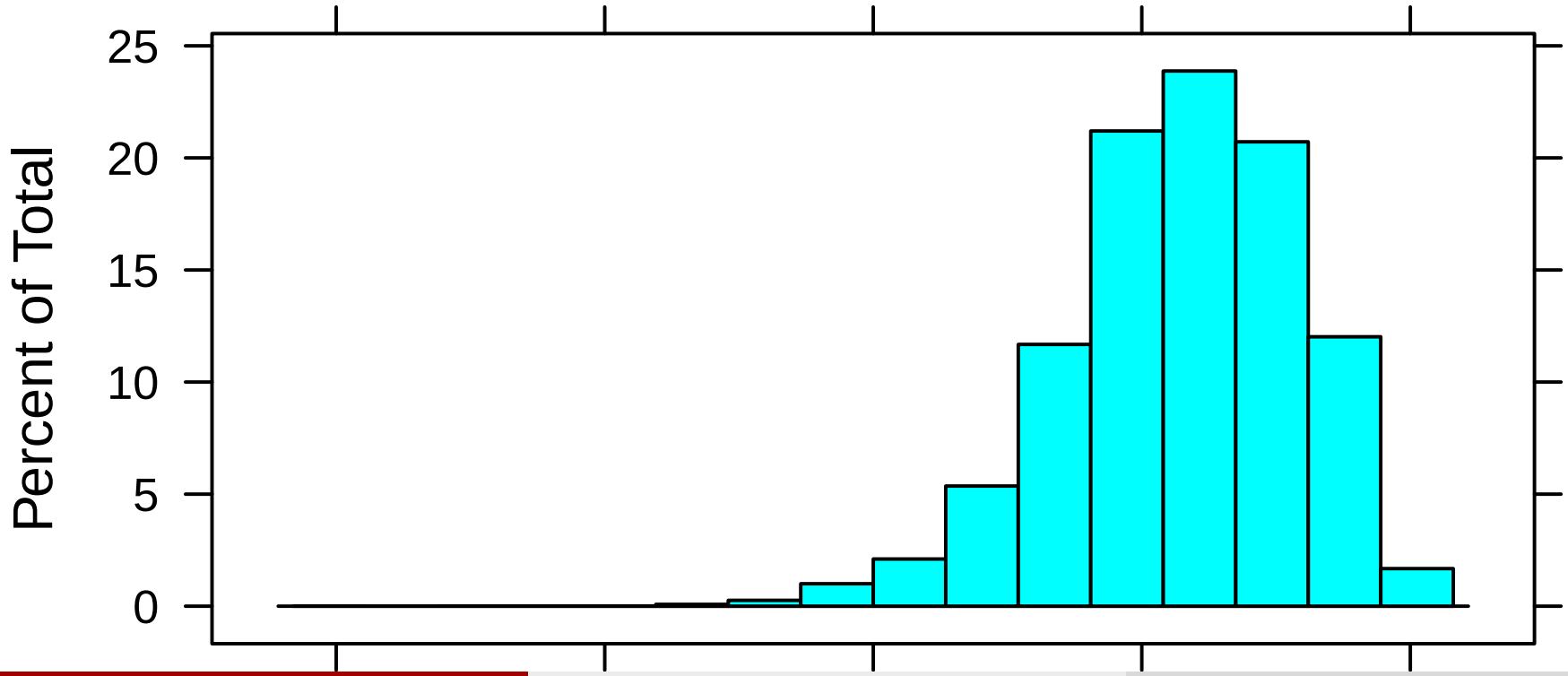
Das lattice-Paket

> *It is designed to meet most typical graphics needs with minimal tuning, but can also be easily extended to handle most nonstandard requirements.*

`http://stat.ethz.ch/R-manual/R-devel/library/lattice/html/Lattice.html`

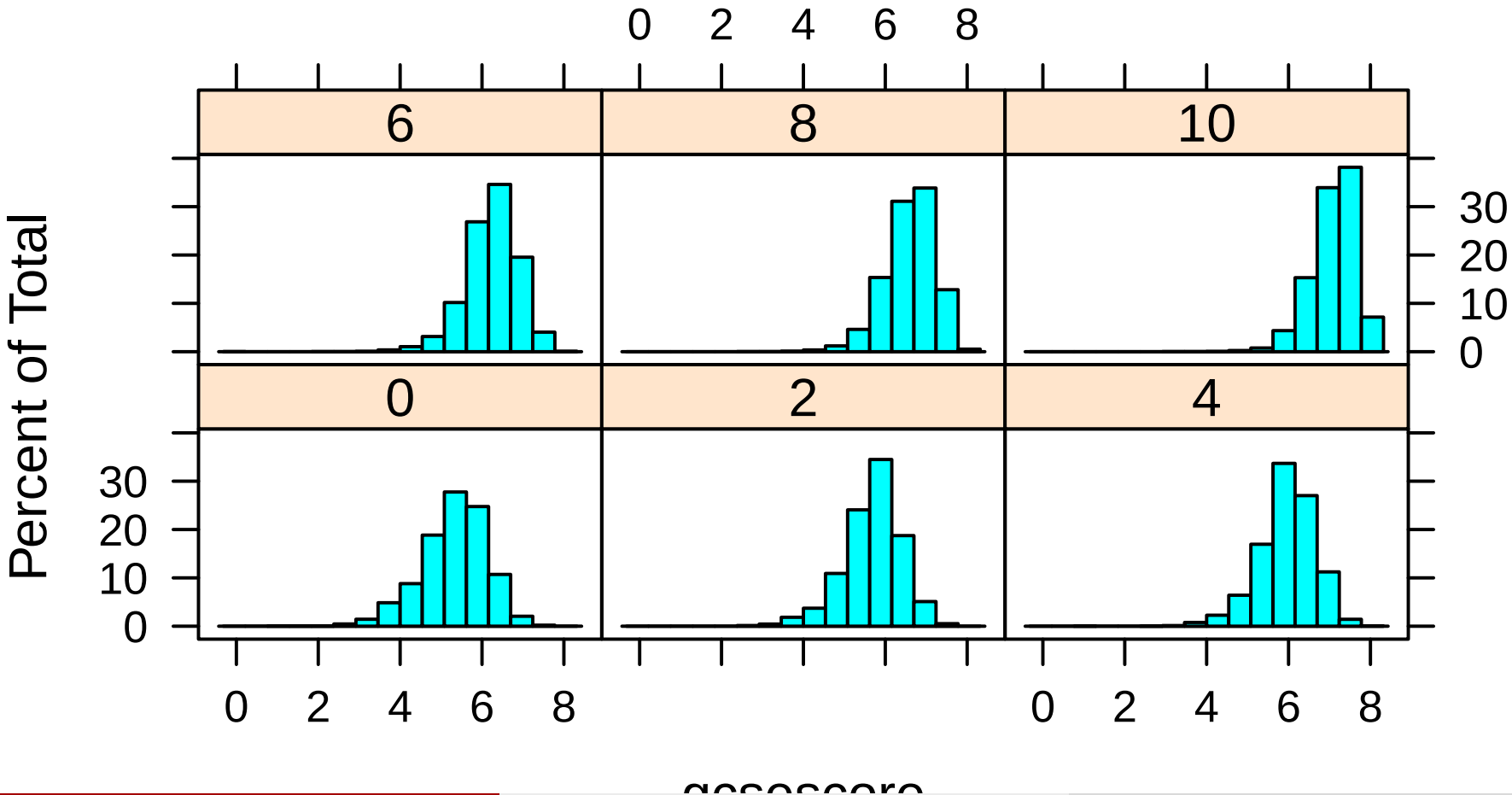
Histogramm mit Lattice

```
library("lattice");library("mlmRev")
data(Chem97)
histogram(~ gcsescore, data = Chem97)
```



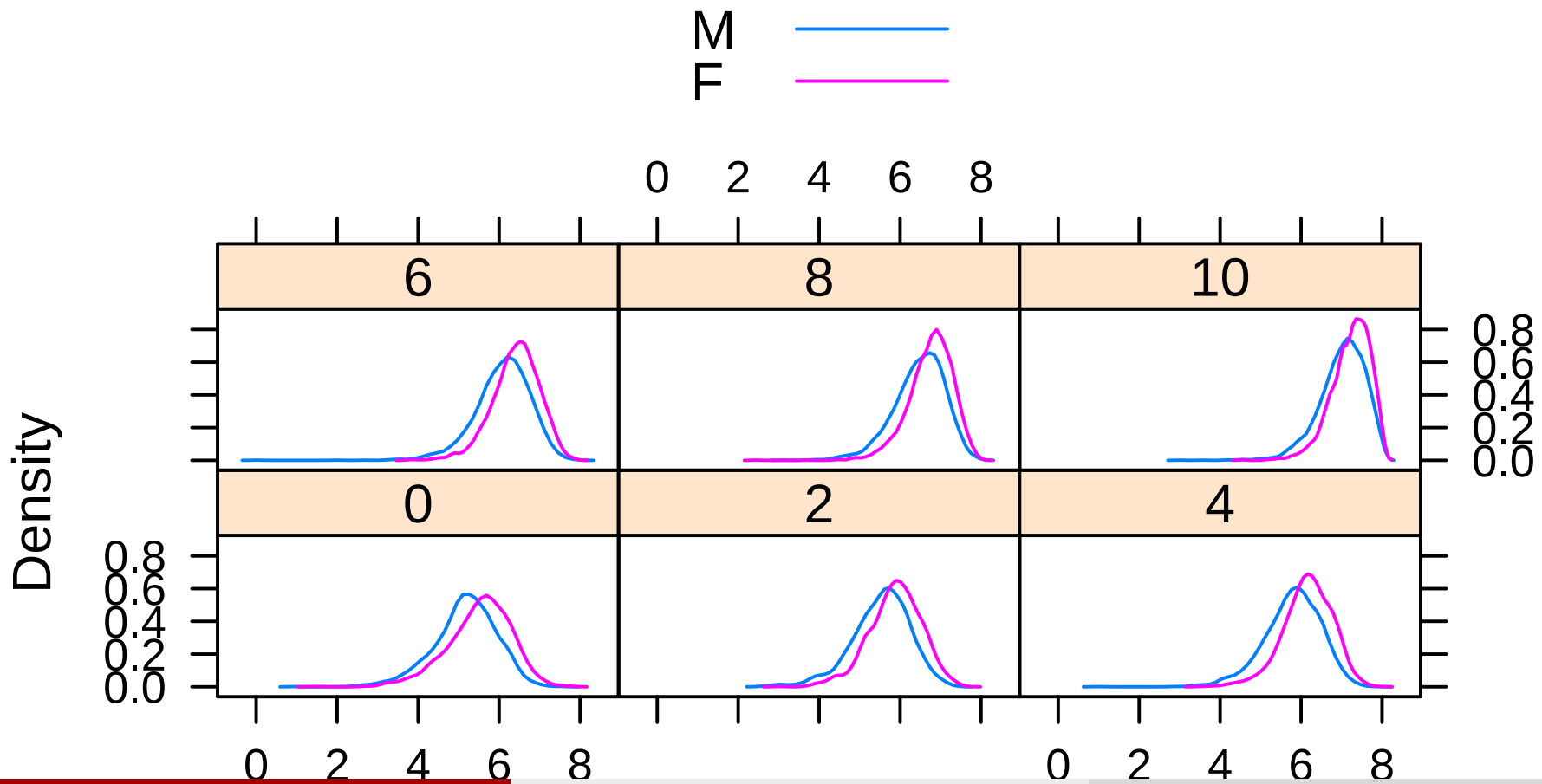
Histogramm mit Lattice

```
histogram(~ gcsescore | factor(score),data = Chem97)
```



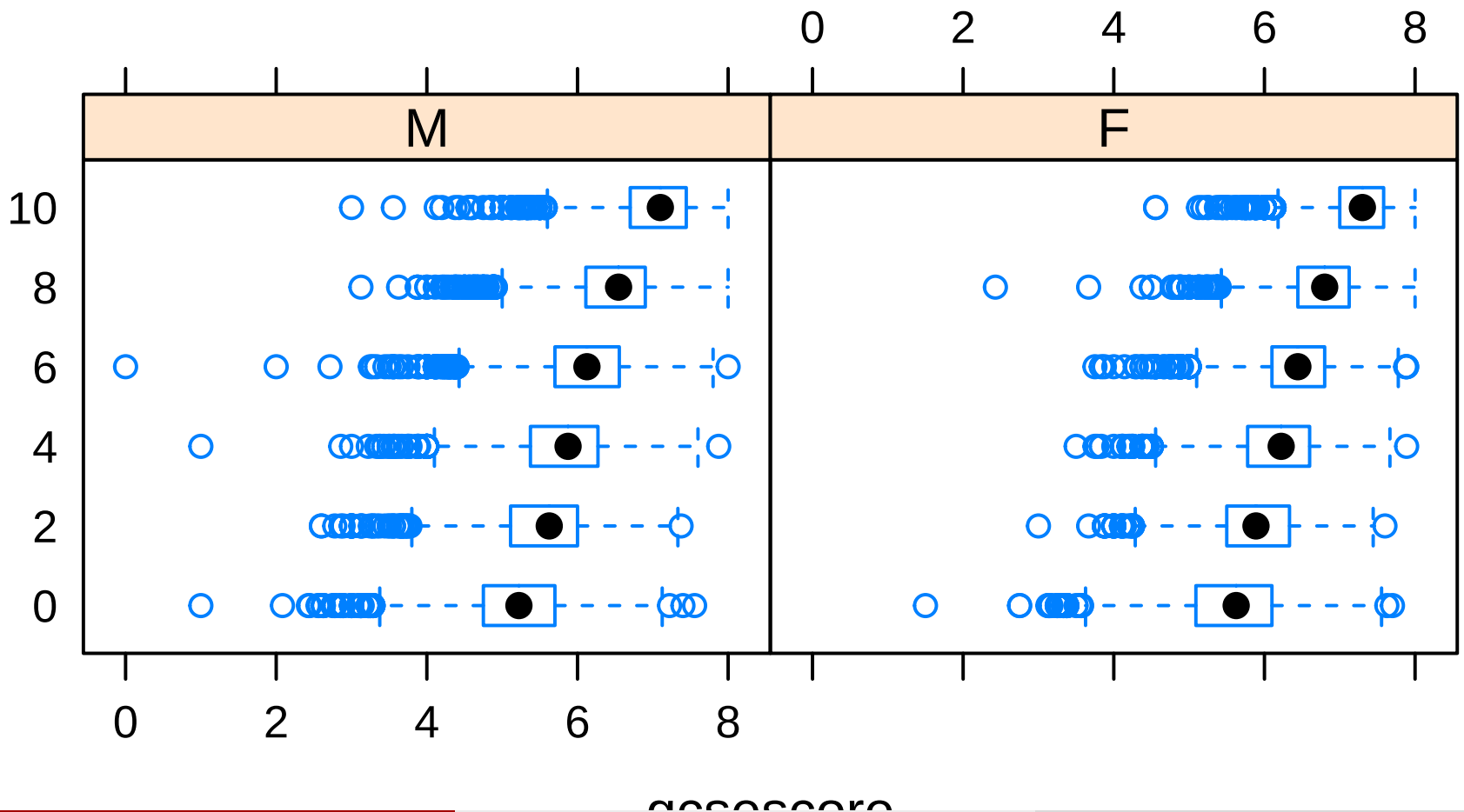
Die Dichte mit Lattice zeichnen

```
densityplot(~ gcsescore | factor(score), Chem97,
    groups=gender,plot.points=FALSE,auto.key=TRUE)
```



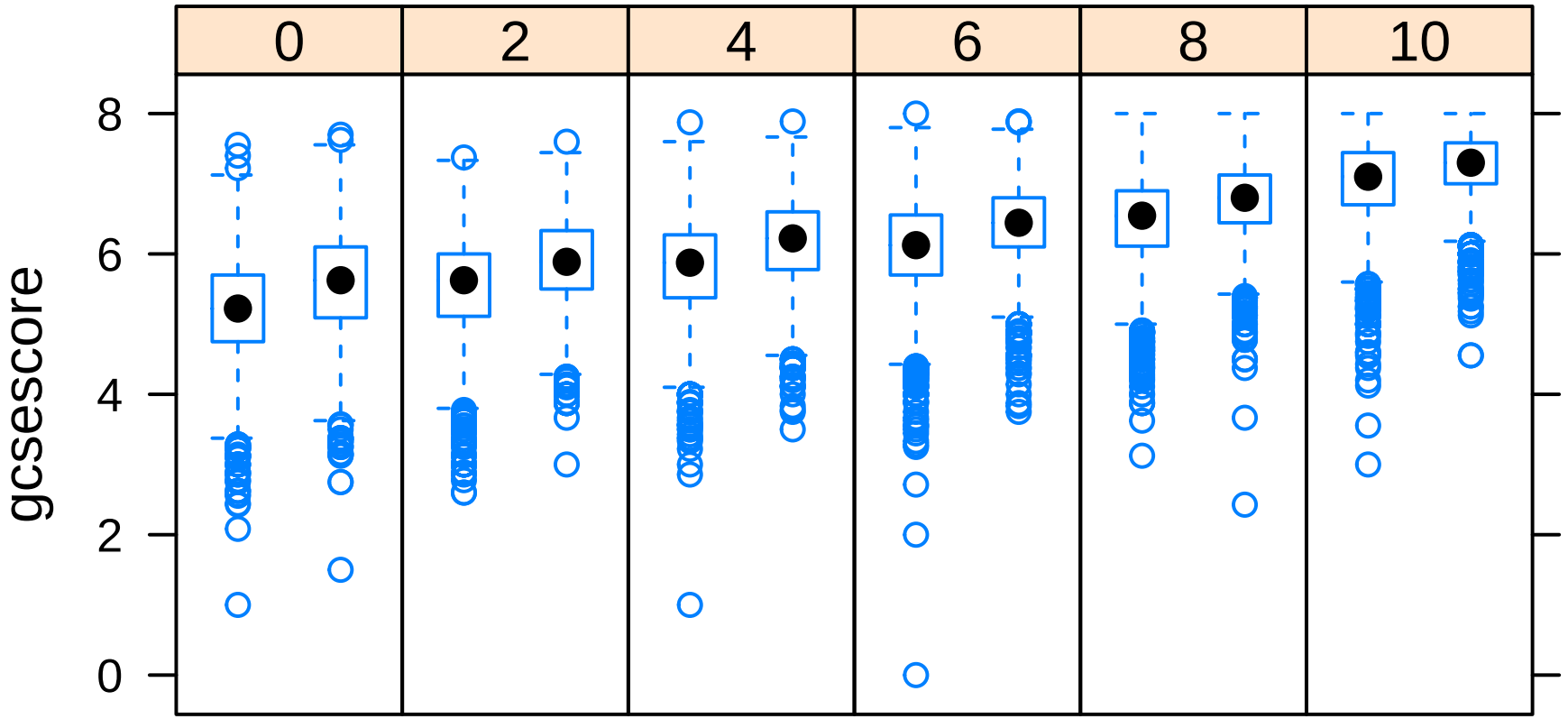
Boxplot mit Lattice zeichnen

```
bwplot(factor(score) ~ gcsescore | gender, Chem97)
```



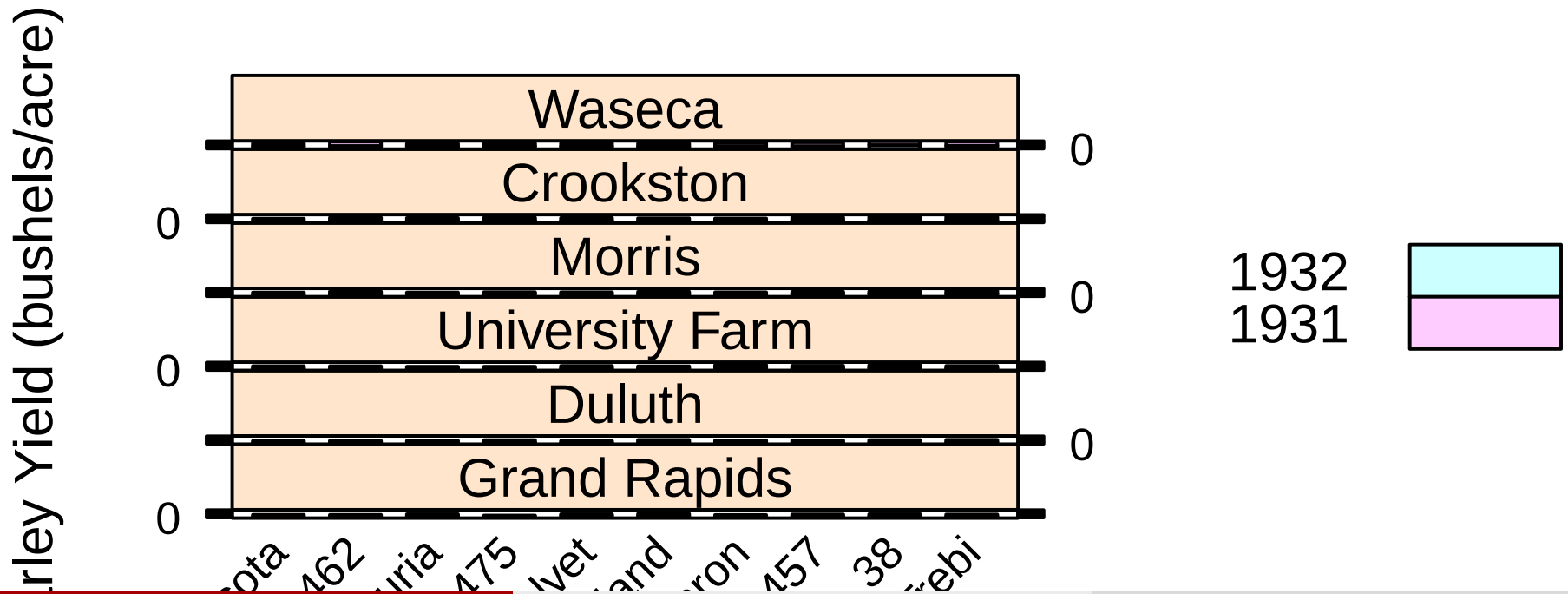
Boxplot mit Lattice zeichnen

```
bwplot(gcsescore ~ gender | factor(score), Chem97,
 layout = c(6, 1))
```



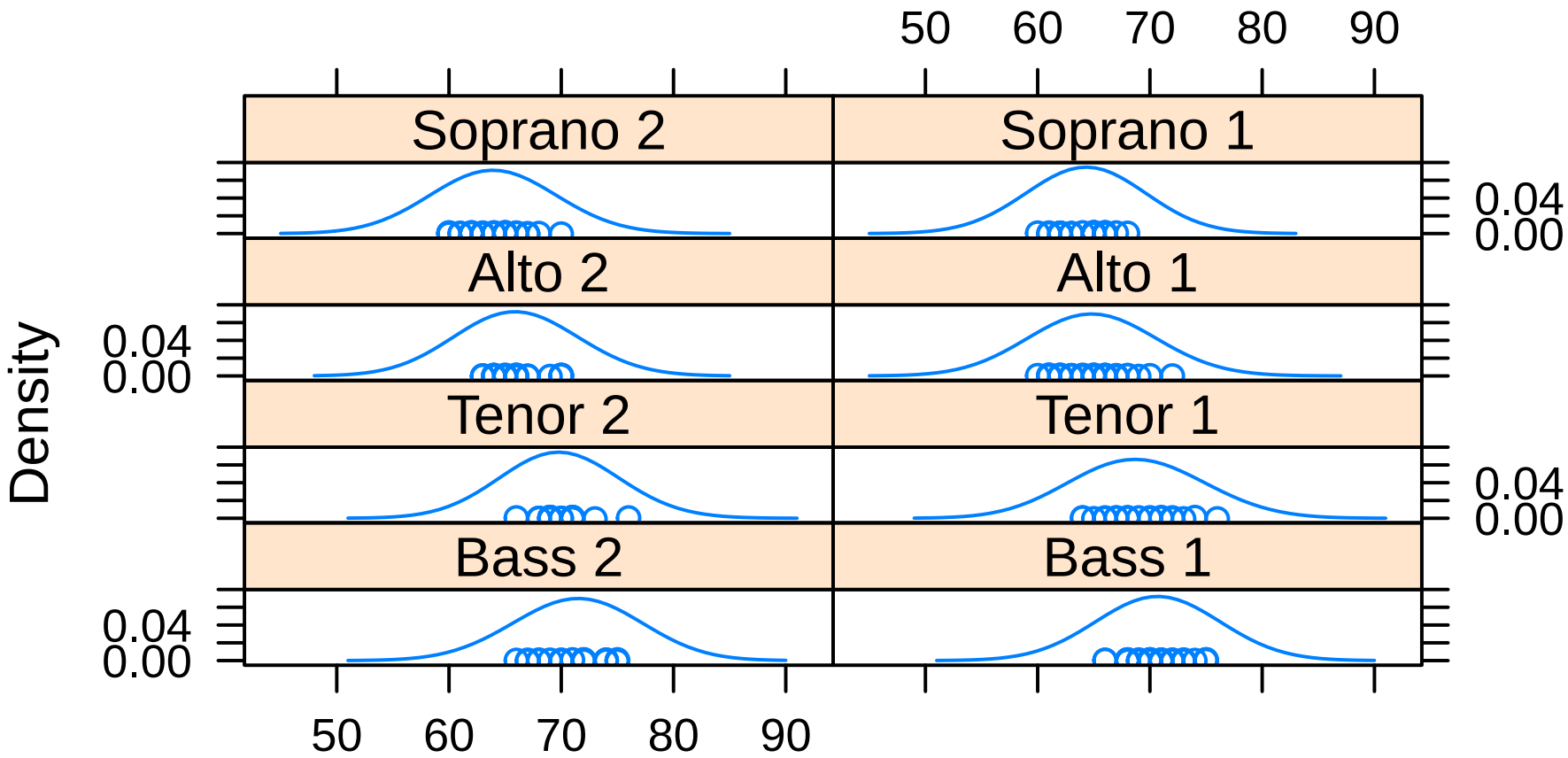
Univariate Plots

```
barchart(yield ~ variety | site, data = barley,
         groups = year, layout = c(1,6), stack = TRUE,
         auto.key = list(space = "right"),
         ylab = "Barley Yield (bushels/acre)",
         scales = list(x = list(rot = 45)))
```



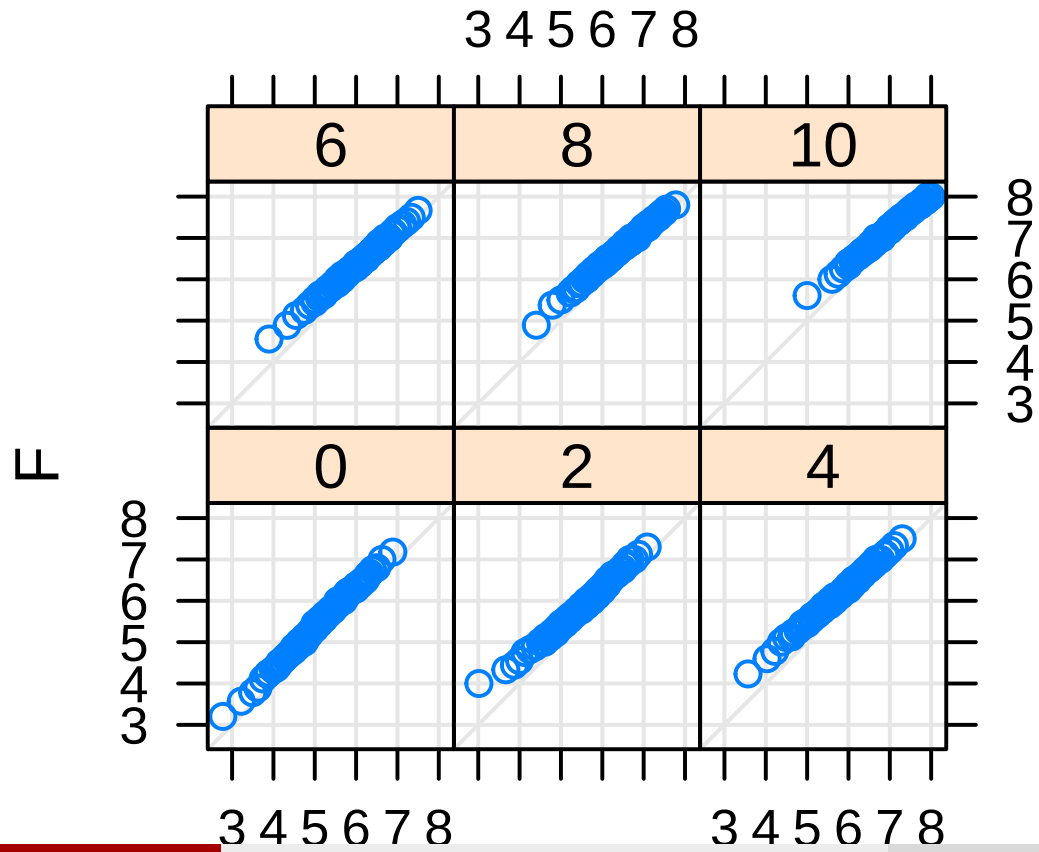
Densityplot

```
densityplot( ~ height | voice.part, data = singer, layout = c(
            xlab = "Height (inches)", bw = 5)
```



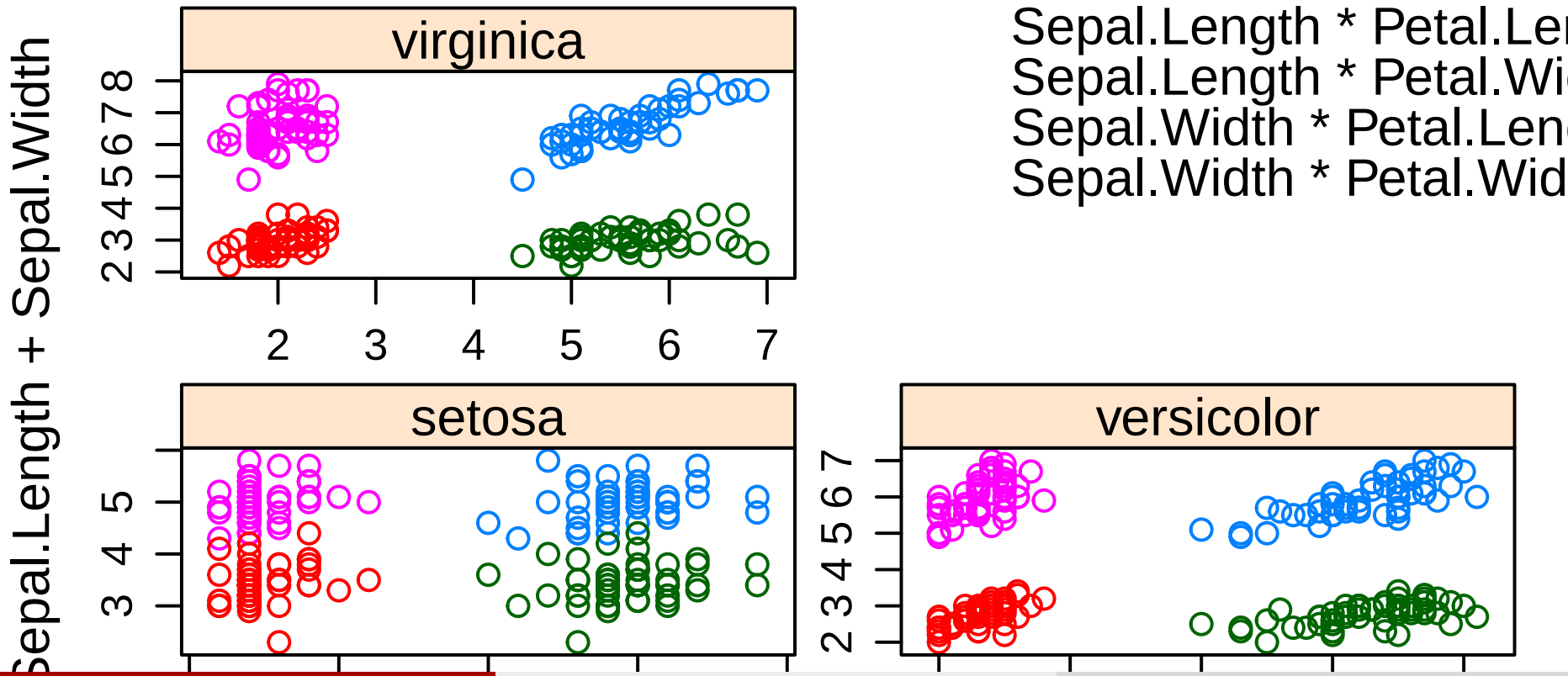
Bivariate Plots

```
qq(gender ~ gcsescore | factor(score), Chem97,
   f.value = ppoints(100), type = c("p", "g"), aspect = 1)
```



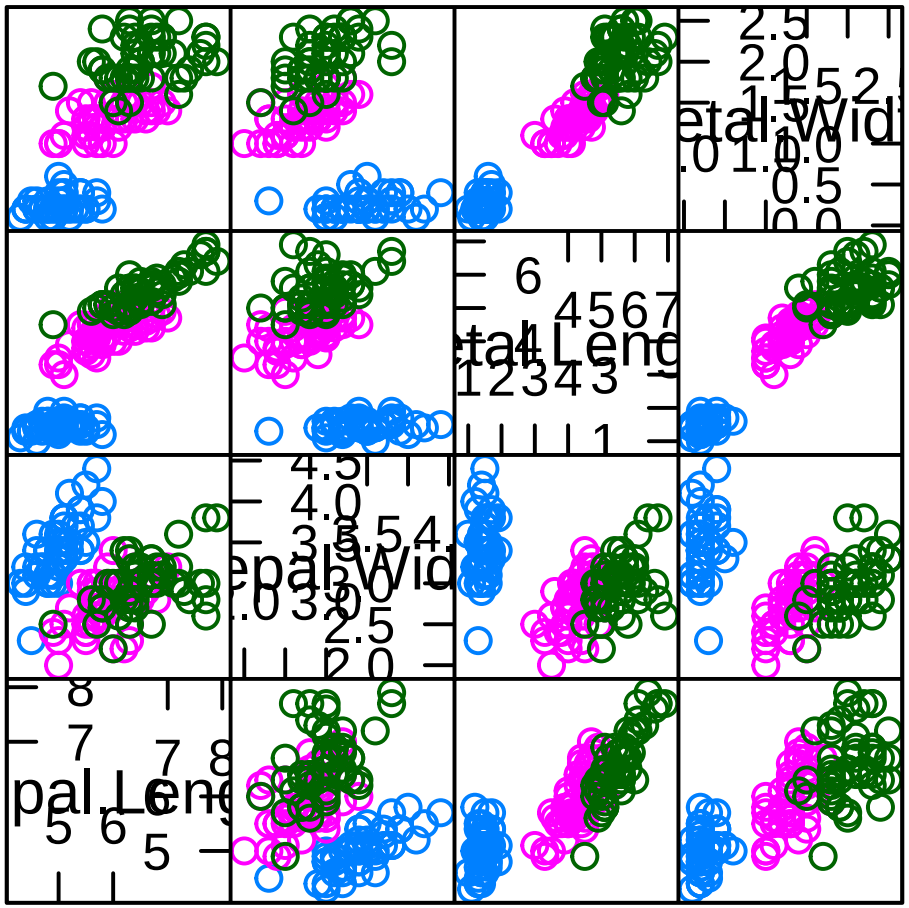
xyplot

```
xyplot(Sepal.Length + Sepal.Width ~ Petal.Length + Petal.Width,
       data = iris, scales = "free", layout = c(2, 2),
       auto.key = list(x = .6, y = .7, corner = c(0, 0)))
```



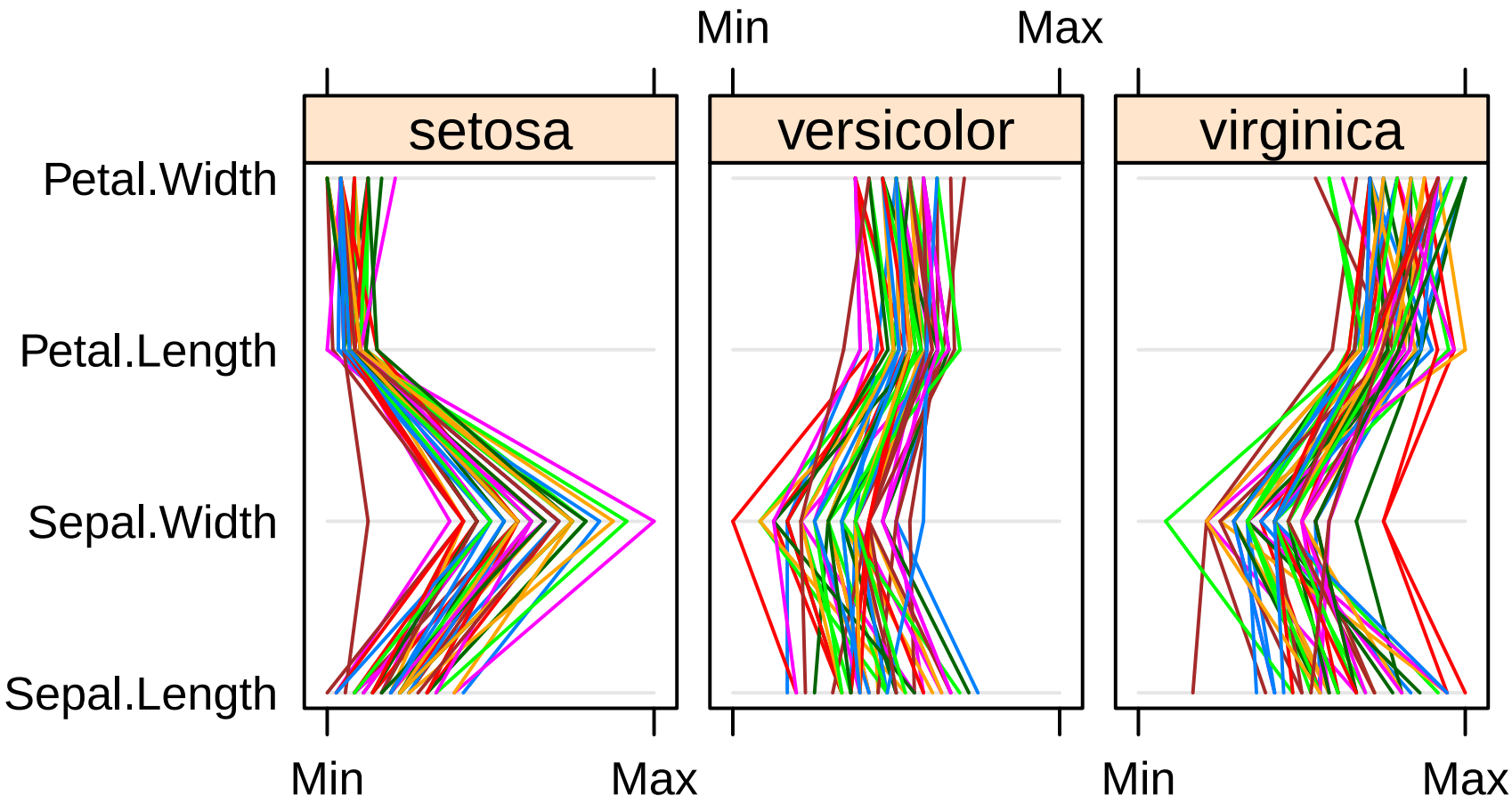
Multivariate Plots

```
splom(~iris[1:4], groups = Species, data = iris)
```



parallelplot

```
parallelplot(~iris[1:4] | Species, iris)
```



Lattice Befehle

- Übersicht aller Lattice Befehle