Examples for the qTable function

Enrico Schumann
es@enricoschumann.net

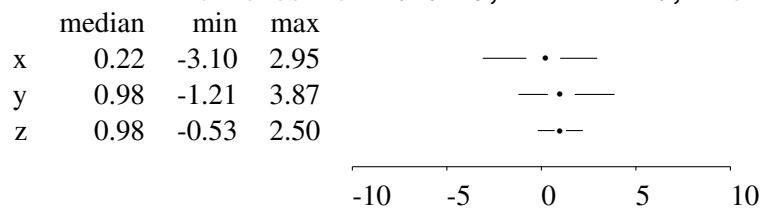We attach the package and create some random data.

```
> require("NMOF")
> x <- rnorm(100L, mean = 0, sd = 1.5)
> y <- rnorm(100L, mean = 1, sd = 1)
> z <- rnorm(100L, mean = 1, sd = 0.5)
> X <- cbind(x, y, z)
> summary(X)
```

```
      x                   y                   z
 Min.   :-3.1012   Min.    :-1.213    Min.    :-0.527
 1st Qu.:-0.7966   1st Qu.: 0.341    1st Qu.: 0.702
 Median : 0.2206   Median : 0.977    Median : 0.979
 Mean   : 0.0987   Mean    : 1.022    Mean    : 1.009
 3rd Qu.: 0.9941   3rd Qu.: 1.763    3rd Qu.: 1.299
 Max.   : 2.9517   Max.    : 3.868    Max.    : 2.498
```

A call to qTable could like this, and it will result in the LATEX output below.

```
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
            circlesize = 0.0125, xmin = -10, xmax = 10, dec = 2))
```

	median	min	max		
x	0.22	-3.10	2.95	— · —	
y	0.98	-1.21	3.87	— · —	
z	0.98	-0.53	2.50	—·—	

	-10	-5	0	5	10

If you use Sweave, use <<results=tex>>= to start a code chunk.

Examples

```
> ## with limits
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
              circlesize = 0.0125, xmin = -10, xmax = 10, dec = 2))
      median   min    max
  x      0.22  -3.10   2.95            —— · ——
  y      0.98  -1.21   3.87             — · ——
  z      0.98  -0.53   2.50             —·—

              -10      -5      0      5      10
```
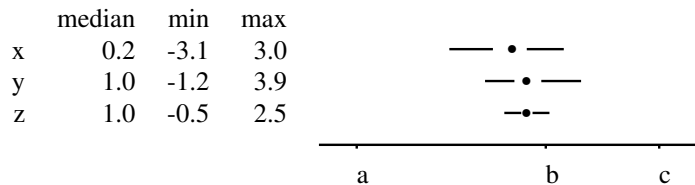
```
> ## without specified limits
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
              circlesize = 0.0125, dec = 2))
      median   min    max
  x      0.22  -3.10   2.95      ————      ·    ————
  y      0.98  -1.21   3.87        ————    ·   ————
  z      0.98  -0.53   2.50          —— · ——

               -4      -2      0      2      4
```

```
> ## 3 decimal places
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
              circlesize = 0.0125, dec = 3))
      median    min     max
  x     0.221  -3.101   2.952     ————      ·    ————
  y     0.977  -1.213   3.867       ————    ·   ————
  z     0.979  -0.527   2.498         —— · ——

               -4      -2      0      2      4
```

```
> ## specific labels, but no limits
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
              labels = c(-8,2,8), at = c(-8,2,8),
              circlesize = 0.0125, dec = 1))
      median  min   max
  x      0.2   -3.1   3.0      ————      ·    ————
  y      1.0   -1.2   3.9        ————    ·   ————
  z      1.0   -0.5   2.5          —— · ——

            -8                    2                    8
```

```
> ## specific labels and limits, linethickness
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
          labels = c("a","b","c"), at = c(-8,2,8),
          circlesize = 0.02, dec = 1, linethickness = "0.2ex",
          xmin = -10, xmax = 10))
      median  min   max
  x      0.2   -3.1   3.0          —— · ——
  y      1.0   -1.2   3.9           —·——
  z      1.0   -0.5   2.5            —·—

               a          b       c
```
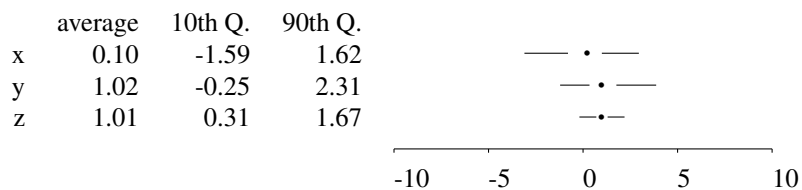
```
> ## specific labels and limits, linethickness
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
          labels = c("a","b","c"), at = c(-8,2,8),
          circlesize = 0.02, dec = 1, linethickness = "0.2ex",
          xmin = -10, xmax = 10))
```

	median	min	max
x	0.2	-3.1	3.0
y	1.0	-1.2	3.9
z	1.0	-0.5	2.5

```
> ## with limits and alternative functions
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
            circlesize = 0.0125, xmin = -10, xmax = 10, dec = 2,
            funs = list(average = mean,
                        `10th Q.` = function(x) quantile(x, 0.1),
                        `90th Q.` = function(x) quantile(x, 0.9))))
```

	average	10th Q.	90th Q.
x	0.10	-1.59	1.62
y	1.02	-0.25	2.31
z	1.01	0.31	1.67

```
> ## with limits and without summary stats
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
            circlesize = 0.0125, xmin = -10, xmax = 10, dec = 2,
            funs = list()))
```