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)
```

```
У
Min. :-3.876 Min. :-2.105 Min. :0.0757
1st Qu.:-0.918 1st Qu.: 0.552
                            1st Qu.:0.6823
Median :-0.200
              Median : 0.975
                             Median :1.1025
Mean :-0.133
              Mean : 0.921
                             Mean :1.0473
3rd Qu.: 0.541
               3rd Qu.: 1.556
                             3rd Qu.:1.4273
Max. : 3.019
              Max. : 2.825
                             Max. :2.2913
```

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

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
      -0.20
             -3.88
                   3.02
 X
       0.98
            -2.10
                   2.83
 y
       1.10
             0.08
                   2.29
 \mathbf{Z}
                                               5
                                                      10
                         -10
                                -5
                                        0
> ## without specified limits
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
              circlesize = 0.0125, dec = 2))
    median
              min max
      -0.20
            -3.88
                   3.02
 Х
       0.98
            -2.10 2.83
 y
       1.10
            0.08
                   2.29
 7.
                         -4
                                 -2
                                        0
                                               2
> ## 3 decimal places
> cat(qTable(X, yoffset = -0.025, unitlength = "5cm",
             circlesize = 0.0125, dec = 3))
    median
               min
                     max
     -0.200
             -3.876
                    3.019
 X
      0.975
            -2.105
                    2.825
 y
      1.102
             0.076 2.291
                                   -2
                                                 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
            -3.9
                   3.0
        1.0
            -2.1
                   2.8
 y
        1.1
             0.1
                   2.3
          -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
       -0.2
            -3.9
                   3.0
 X
        1.0
            -2.1
                   2.8
 y
        1.1
             0.1
                   2.3
                                         b
                           a
```

```
> ## 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
       -0.2
            -3.9
                   3.0
 X
        1.0
            -2.1
                   2.8
 У
        1.1
             0.1
                   2.3
                                          b
                                                  c
                           a
> ## 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.
      -0.13
              -1.79
                        1.67
 \mathbf{X}
       0.92
               -0.39
                        2.03
                        1.67
       1.05
               0.40
                                                    5
                              -10
                                     -5
                                            0
                                                           10
> ## 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()))
 \mathbf{X}
 y
    -10
            -5
                   0
                                 10
```