R

Tomokazu NOMURA

2021/01/17

Contents

Chapter 1

R R

- R
- R
- R

Excel Excel Excel

R

Chapter 2

R RStudio

2.1 R

R Windows Mac Linux R ( ) RStudio R

Mac > Linux > Windows R Mac Linux R Windows

Windows WSL Linux R WSL R RStudio Server Chrome RStudio ( )

2.2

Ubuntu Mac Windows

2.2.1 Mac

- Homebrew Homebrew
- Homebrew Command Line Tools
- XCode Command Line Tools

```
xcode-select --install
```

2.2.2 Linux

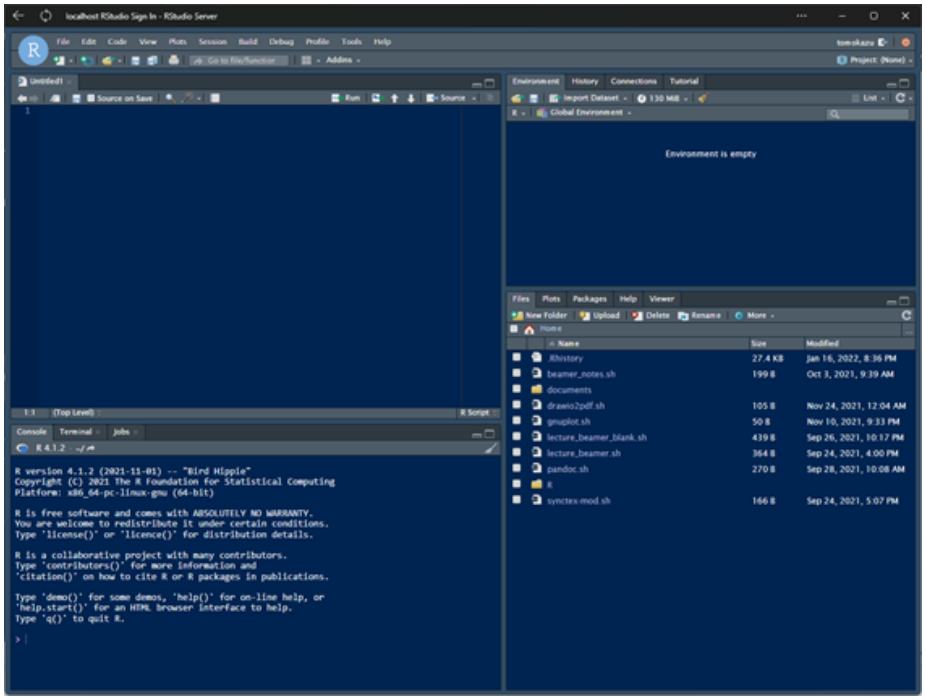
- Linux(WSL) RStudio Server Chrome RStudio R RStudio ( ) (

2.2.3 Windows

- Rtools Ok( )
- ( ) R Windows

2.3 RStudio

RStudio



RStudio [Tools]>[Global Options...] Appearance

RStudio 4 (4)

- Source + (R Script)
- Console R
- Environment Environment History
- Files Files R Source Plots

R Conole Console Histroy

2.4

R ? Help ( ) DeepL

table

```
?table
```

2.5

Tutorial R R

2.6

R install.packages tidyverse

```
install.packages("tidyverse")
```

library

```
library(tidyverse)
```

Chapter 3

R

3.1

R

( ) ”_“

a 2 b 1.5

```
a <- 2
b <- 2.5
```

```
a
```

```
## [1] 2
```

```
b
```

```
## [1] 2.5
```

```
a+b
```

```
## [1] 4.5
```

```
a*b
```

```
## [1] 5
```

a, b 2 2.5 a,b

RStudio ”Environment” a b

” “

Figure 3.1: Environment

```
name <- "      "
gender <- " "
age <- "20"
```

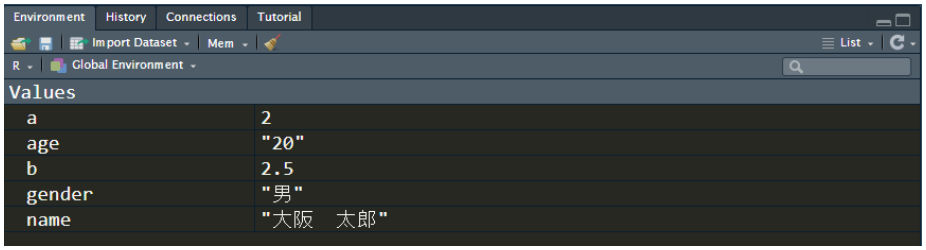


Figure 3.2: Environment

name " " gender " " age "20"

age "20" 20 age

```
age+10
```

```
## Error in age + 10:
```

(Type) a b (numeric) name gender age (character)

Environment List Grid

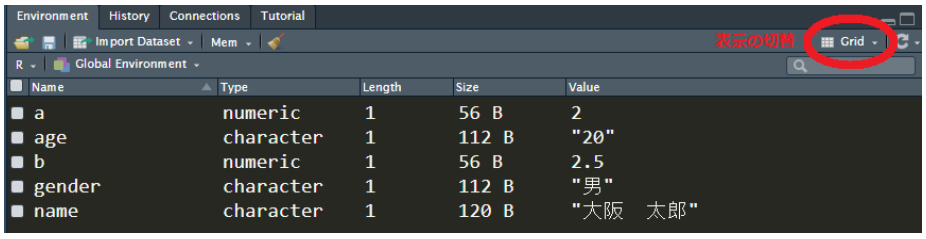


Figure 3.3: Grid

as.numeric()

```
as.numeric(age)+10
```

```
## [1] 30
```

age as.numeric(age) age

as.character()

3.2

1 name 3 age 3 c(1, 2,...)

```
name <- c("    ","    ","    ")
age <- c(19,21,20)
```

name age

```
name
```

```
## [1] "    " "    " "    "
```

```
age
```

```
## [1] 19 21 20
```

name age R

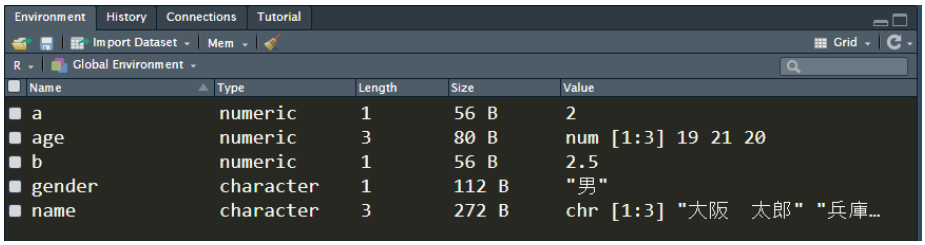


Figure 3.4:

Environment name age Length 1 3 Length ( )

1 [ ] 1 (0) name 2

```
name[2]
```

```
## [1] "    "
```

3.3

factor

gender factor factor as.factor()

```
gender <- c(" "," "," ")
gender <- as.factor(gender)
```

gender

```
gender
```

```
## [1]
## Levels:
```

3 ( ) 2

factor factor gender gender_num

```
gender_num <- as.numeric(gender)
gender_num
```

```
## [1] 2 1 2
```

(1 2) Levels factor levels

```
gender <- factor(gender, levels=c(" "," "))
gender
```

```
## [1]
## Levels:
```

```
as.numeric(gender)
```

```
## [1] 1 2 1
```

3.3.1

1 factor

4 factor 2

category4 factor

```
category4 <- c("   ",
               "   ",
               "   ",
               "   ",
               "   ",
               "   ",
               "   ",
               "   ",
               "   ",
               "   ",
               "   ")
category4 <- as.factor(category4)
category4
```

```
##  [1]
##  [7]
## Levels:
```

category4

category4 1 2 3 4 2 category2

```
cat2 <- c(" "," "," "," ")

category4_num <- as.numeric(category4)
category2 <- cat2[category4_num]
category2 <- as.factor(category2)
category2
```

```
##  [1]
## Levels:
```

3.4

( ) 3 name( ) age( ) gender(factor) 1 df

```
df <- data.frame(name, age, gender)
df
```

```
##          name age gender
## 1        19
## 2        21
## 3        20
```

3(3) 3(name, age, gender 3)

Environment df Environment List

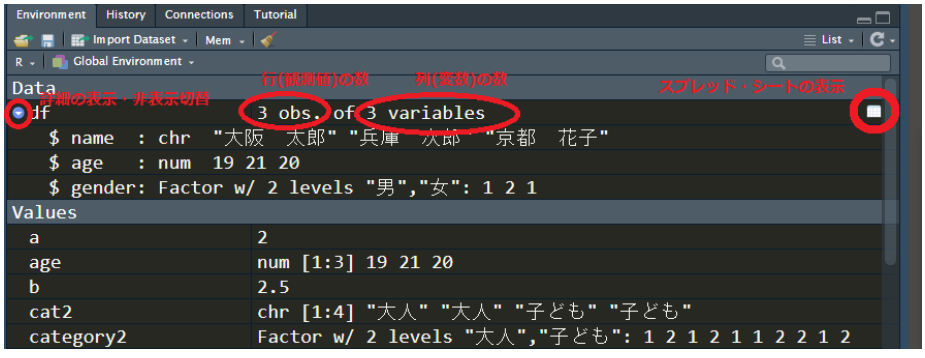


Figure 3.5:

(df) Excel

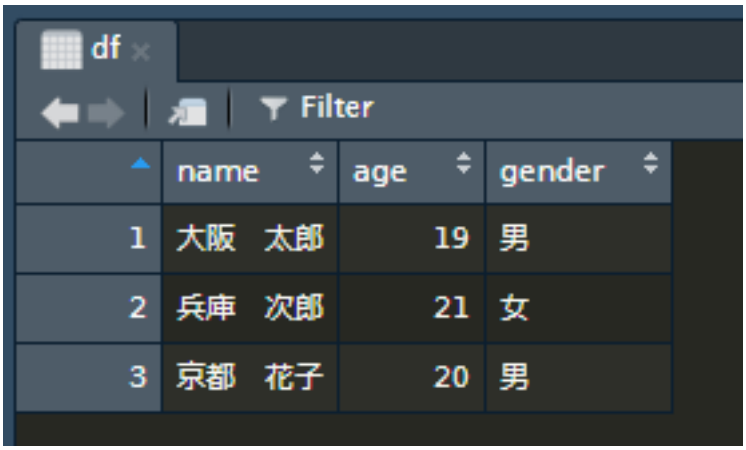


Figure 3.6:

( ) $ df age ( ) df$age

3

```
mean(df$age)
```

```
## [1] 20
```

Chapter 4

1

( )

R tidyverse stargazer

4.1

R iris iris

```
iris <- iris
```

iris 150 (3) ( ) ( ) 5

Sepal.Length
Sepal.Width
Petal.Length
Petal.Width
Species

glimpse() (tidyverse)

```
glimpse(iris)
```

```
## Rows: 150
## Columns: 5
## $ Sepal.Length <dbl> 5.1, 4.9, 4.7, 4.6, 5.0, 5.4, 4.6, 5.0, 4.4, 4.9, 5.4, 4.~
## $ Sepal.Width  <dbl> 3.5, 3.0, 3.2, 3.1, 3.6, 3.9, 3.4, 3.4, 2.9, 3.1, 3.7, 3.~
## $ Petal.Length <dbl> 1.4, 1.4, 1.3, 1.5, 1.4, 1.7, 1.4, 1.5, 1.4, 1.5, 1.5, 1.~
## $ Petal.Width  <dbl> 0.2, 0.2, 0.2, 0.2, 0.2, 0.4, 0.3, 0.2, 0.2, 0.1, 0.2, 0.~
## $ Species      <fct> setosa, setosa, setosa, setosa, setosa, setosa, setosa, s~
```

( ) 150 ( ) 5 5 <dbl> <fct> dbl fct

4.2

summary()

```
summary(iris)
```

```
##   Sepal.Length    Sepal.Width     Petal.Length    Petal.Width
##  Min.   :4.300   Min.   :2.000   Min.   :1.000   Min.   :0.100
##  1st Qu.:5.100   1st Qu.:2.800   1st Qu.:1.600   1st Qu.:0.300
##  Median :5.800   Median :3.000   Median :4.350   Median :1.300
##  Mean   :5.843   Mean   :3.057   Mean   :3.758   Mean   :1.199
##  3rd Qu.:6.400   3rd Qu.:3.300   3rd Qu.:5.100   3rd Qu.:1.800
##  Max.   :7.900   Max.   :4.400   Max.   :6.900   Max.   :2.500
##        Species
##  setosa    :50
##  versicolor:50
##  virginica :50
##
##
##
```

(Min.) (1st Qu.) (Median) (Mean) (3rd Qu.) (Max)

summarize()

```
summarize(iris,
                  = mean(Sepal.Length),
                = sd(Sepal.Length),
                   = mean(Petal.Length),
                = sd(Petal.Length)
          )
```

```
##
## 1   5.843333      0.8280661      3.758       1.765298
```

summarize() 1 2 = ( ) x

---

mean(x)	x
var(x)	x
sd(x)	x
max(x)	x
median(x)	x
min(x)	x

quantile(x, XX)	x XX×100 , e.g. x 25 quantile(x,0.25)

summarize()

stargazer

```
stargazer(iris, type = "text", title="   ", digits=2,
          summary.stat = c("mean", "sd", "min", "p25", "median", "p75", "max"))
```

```
##
##
## ============================================================
## Statistic    Mean St. Dev. Min  Pctl(25) Median Pctl(75) Max
## ------------------------------------------------------------
## Sepal.Length 5.84   0.83   4.30   5.10    5.80    6.40   7.90
## Sepal.Width  3.06   0.44   2.00   2.80    3.00    3.30   4.40
## Petal.Length 3.76   1.77   1.00   1.60    4.35    5.10   6.90
## Petal.Width  1.20   0.76   0.10   0.30    1.30    1.80   2.50
## ------------------------------------------------------------
```

stargazer() 1 (iris) type “text”( ) “html” “latex” title

	mean sd min max
XX ( )	pXX

4.3

cor() iris Species iris 4 cor()

select() 1 2 select(dataframe,a,b) dataframe$a dataframe$b
“ select(dataframe,-a) dataframe a select(dataframe,2:4) dataframe 2 4

iris 5 4 Species cor()

```
cor(select(iris,-Species))
```

```
##              Sepal.Length Sepal.Width Petal.Length Petal.Width
## Sepal.Length    1.0000000  -0.1175698    0.8717538   0.8179411
## Sepal.Width    -0.1175698   1.0000000   -0.4284401  -0.3661259
## Petal.Length    0.8717538  -0.4284401    1.0000000   0.9628654
```

```
## Petal.Width      0.8179411  -0.3661259    0.9628654   1.0000000
```

```
cor(select(iris,1:4))
cor(select(iris, Sepal.Length, Sepal.Width, Petal.Length, Petal.Width)
```

4.4

iris setosa versicolor virginica 3

4.4.1

filter() ( )

```
iris_setosa <- filter(iris, Species=="setosa")
iris_versicolor <- filter(iris, Species=="versicolor")
iris_virginica <- filter(iris, Species=="virginica")
```

```
stargazer(iris_setosa, type = "text", title="setosa", digits=2,
          summary.stat = c("mean", "sd", "min", "p25", "median", "p75", "max"))
```

```
##
## setosa
## ===========================================================
## Statistic    Mean St. Dev. Min  Pctl(25) Median Pctl(75) Max
## -----------------------------------------------------------
## Sepal.Length 5.01   0.35   4.30   4.80    5.00    5.20   5.80
## Sepal.Width  3.43   0.38   2.30   3.20    3.40    3.68   4.40
## Petal.Length 1.46   0.17   1.00   1.40    1.50    1.58   1.90
## Petal.Width  0.25   0.11   0.10   0.20    0.20    0.30   0.60
## -----------------------------------------------------------
```

```
stargazer(iris_versicolor, type = "text", title="versicolor", digits=2,
          summary.stat = c("mean", "sd", "min", "p25", "median", "p75", "max"))
```

```
##
## versicolor
## ===========================================================
## Statistic    Mean St. Dev. Min  Pctl(25) Median Pctl(75) Max
## -----------------------------------------------------------
## Sepal.Length 5.94   0.52    5     5.6     5.9     6.3     7
## Sepal.Width  2.77   0.31   2.00   2.52    2.80    3.00   3.40
## Petal.Length 4.26   0.47   3.00   4.00    4.35    4.60   5.10
## Petal.Width  1.33   0.20   1.00   1.20    1.30    1.50   1.80
## -----------------------------------------------------------
```

```
stargazer(iris_virginica, type = "text", title="virginica", digits=2,
          summary.stat = c("mean", "sd", "min", "p25", "median", "p75", "max"))
```

```
##
## virginica
## ============================================================
## Statistic    Mean St. Dev. Min  Pctl(25) Median Pctl(75) Max
## ------------------------------------------------------------
## Sepal.Length 6.59   0.64   4.90   6.23    6.50    6.90   7.90
## Sepal.Width  2.97   0.32   2.20   2.80    3.00    3.18   3.80
## Petal.Length 5.55   0.55    4     5.1     5.6     5.9     7
## Petal.Width  2.03   0.27   1.40   1.80    2.00    2.30   2.50
## ------------------------------------------------------------
```

4.4.2 group_by()

group_by 1 2 summarize()

```
iris_grouped <- group_by(iris, Species)

summarize(iris_grouped,
                  = mean(Sepal.Length),
                = sd(Sepal.Length),
                   = mean(Petal.Length),
                = sd(Petal.Length)
          )
```

```
## # A tibble: 3 x 5
##   Species
##   <fct>           <dbl>          <dbl>      <dbl>          <dbl>
## 1 setosa           5.01          0.352       1.46          0.174
## 2 versicolor       5.94          0.516       4.26          0.470
## 3 virginica        6.59          0.636       5.55          0.552
```

4.4.3 xtabs()

xtabs() 1 2 ~x1+x2+... y~x1+x2+... ~x1+x2 x1,x2 y~

iris Species 1 xtabs() Species

```
xtabs(~Species,iris)
```

```
## Species
##     setosa versicolor  virginica
##         50         50         50
```

Species

```
xtabs(Sepal.Length~Species,iris)
```

```
## Species
##     setosa versicolor  virginica
##      250.3      296.8      329.4
```

Species

```
xtabs(Sepal.Length~Species,iris)/xtabs(~Species,iris)
```

```
## Species
##     setosa versicolor  virginica
##      5.006      5.936      6.588
```

Chapter 5

2( )

R ggplot2 ggplot2 tidyverse tidyverse

```
library(tidyverse)
```

iris

```
iris <- iris
```

5.1

150

ggplot2

```
g <- iris %>%
  ggplot(aes(x=Sepal.Length))
```

g ggplot() ggplot() x y aes() ggplot()

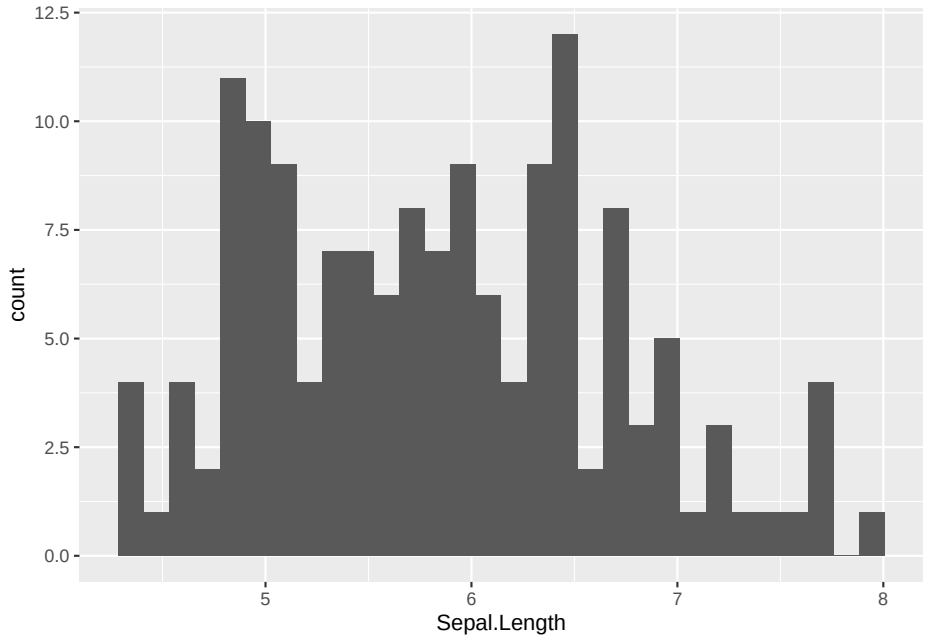
```
g <- g+geom_histogram()
```

ggplot

plot()

```
plot(g)
```

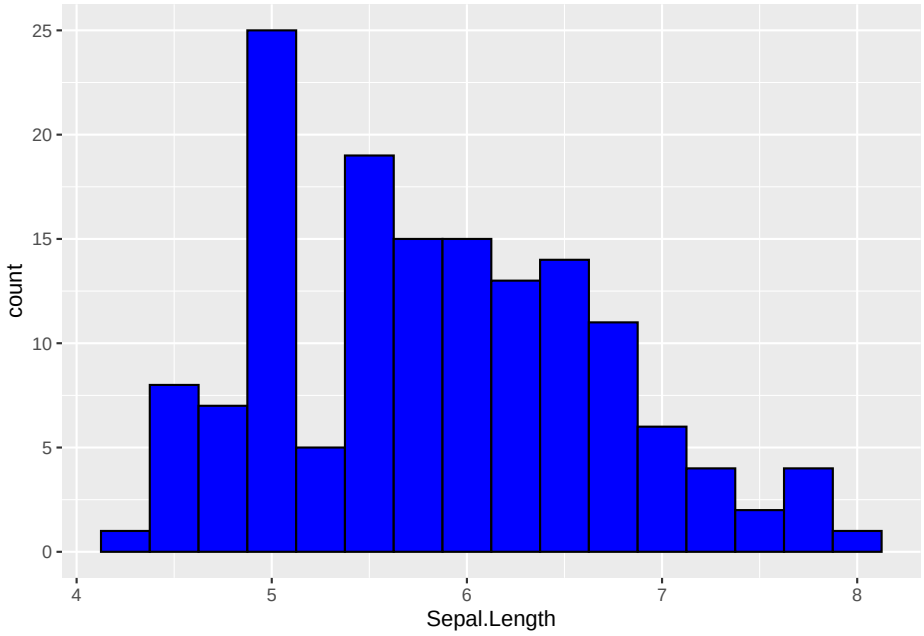
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



R

geom_histogram()

```
g <- iris %>%
  ggplot(aes(x=Sepal.Length))+
  geom_histogram(binwidth=0.25,color="black", fill="blue")

plot(g)
```



labs()

```
g <- iris %>%
  ggplot(aes(x=Sepal.Length))+
  geom_histogram(binwidth=0.25,color="black", fill="blue")+
  labs(x = "  ", y = " ", title = "      ")

plot(g)
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <90>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <e7>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
```

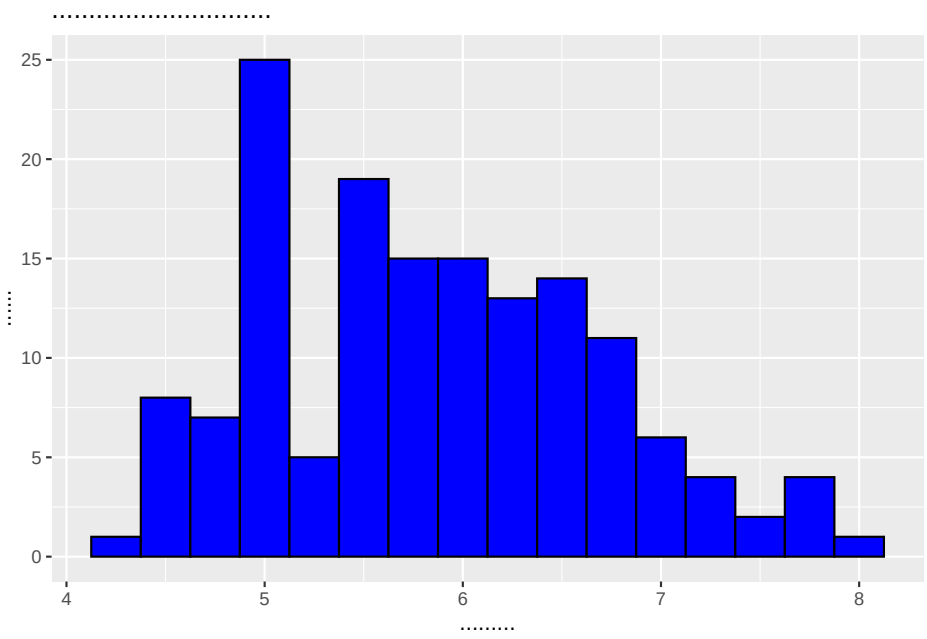
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
```

```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
```

```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <e3>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <81>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <ae>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <e5>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <88>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <86>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <e5>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <b8>
##


## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <83>
##
```




```
#theme_set( theme_gray(base_family = "IPAexGothic"))
plot(g)
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
```

```
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a0>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bb>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <ba>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <a6>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
```

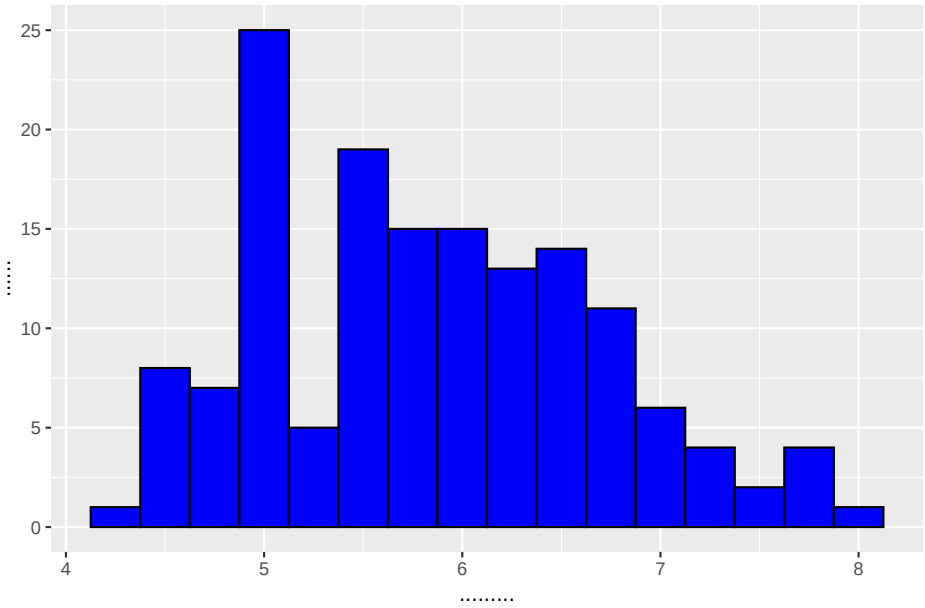
```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <88>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <86>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a4>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <83>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a1>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
```

```
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
```

```
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <ae>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <e5>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <88>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <86>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <e5>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <b8>
##
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <83>
##
```

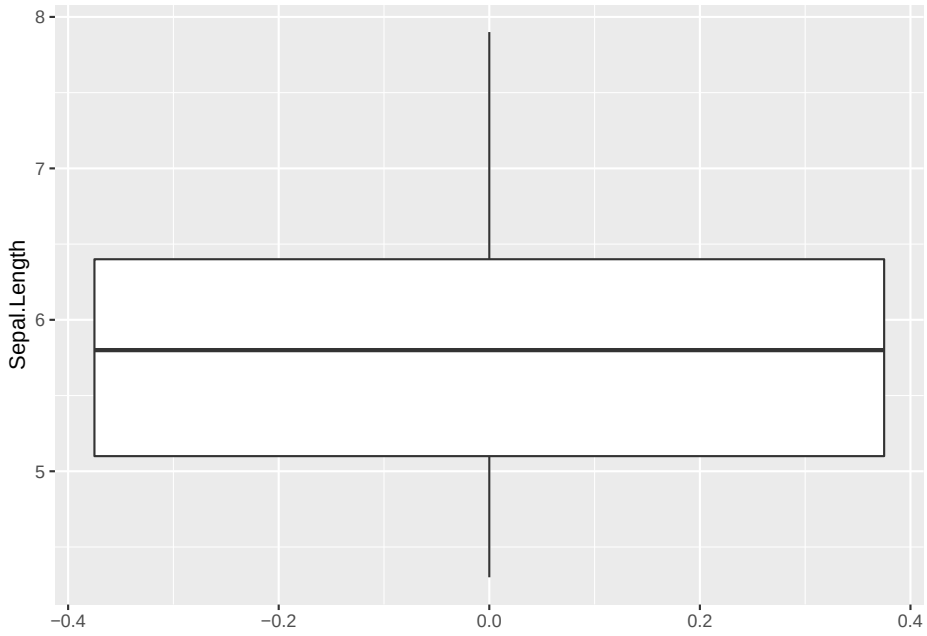


IPAexGothic IPAexGothic IPA

theme_gray() theme_bw()

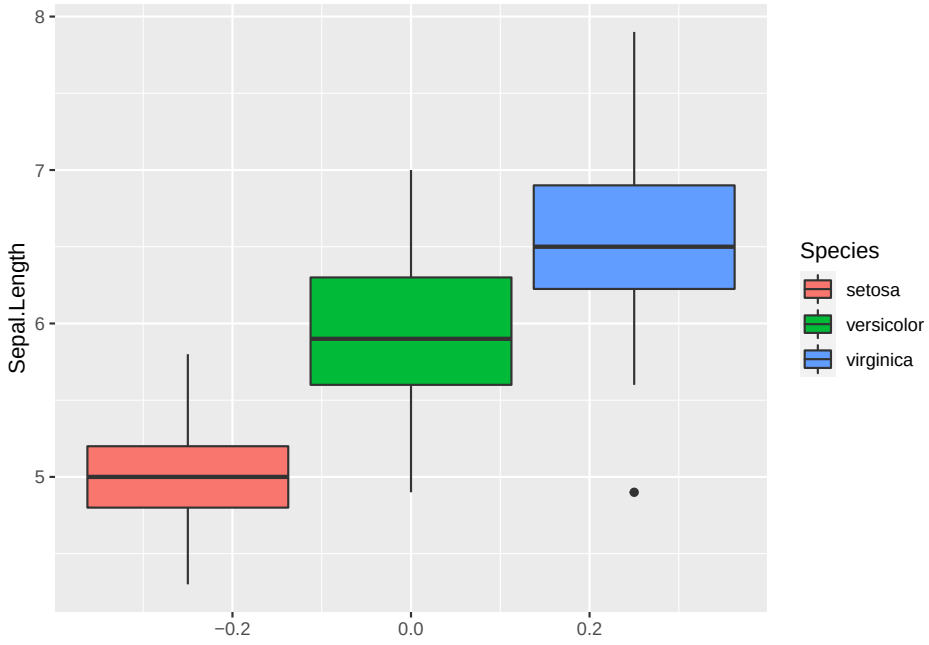
5.2

```
bp <- iris %>%
  ggplot(aes(y=Sepal.Length))+
  geom_boxplot()

plot(bp)
```



aes() y y x

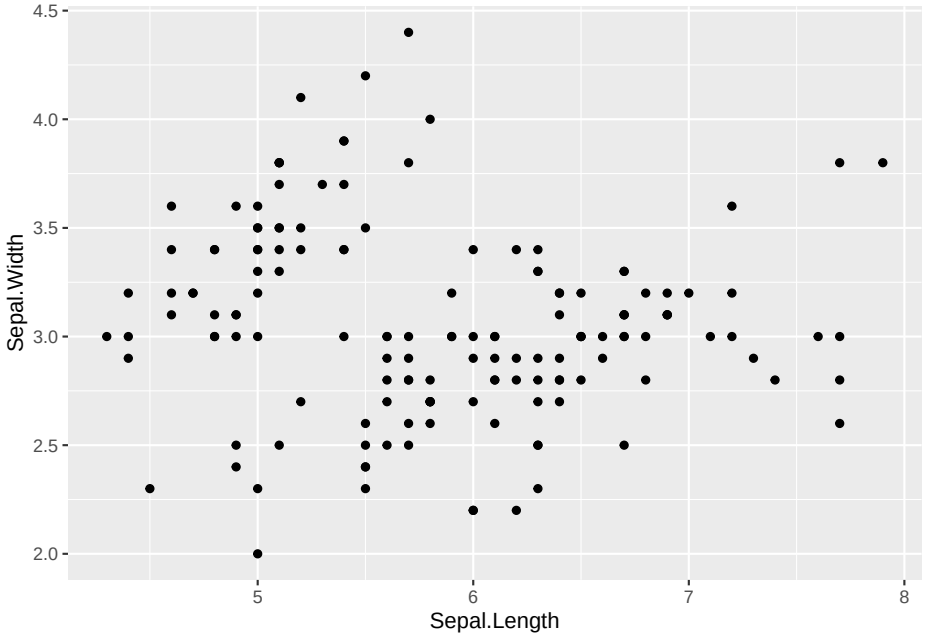
```
bp <- iris %>%
  ggplot(aes(y=Sepal.Length, fill=Species))+
  geom_boxplot()

plot(bp)
```



ggplot aes() fill Species

5.3

```
scatter <- iris %>%
  ggplot(aes(x=Sepal.Length, y=Sepal.Width))+
  geom_point()

plot(scatter)
```



aes() x y geom_point()

aes() color Species

```
scatter <- iris %>%
  ggplot(aes(x=Sepal.Length, y=Sepal.Width, color=Species))+
  geom_point()+
  labs(x="  ",y="  ", title="      ")

plot(scatter)
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bf>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
```

```
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <e4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <bf>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '     : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <e8>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <90>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <bc>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <e7>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <89>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <87>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <e9>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <95>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <b7>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <e8>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <90>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <bc>
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '     : <e7>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bf>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bf>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e4>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bf>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <e8>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <90>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <bc>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <e7>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <89>
##
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '  '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e9>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <95>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e8>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <90>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <bc>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e7>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <89>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <87>
```

```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <e5>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <b9>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   ' '    : <85>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bf>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
```

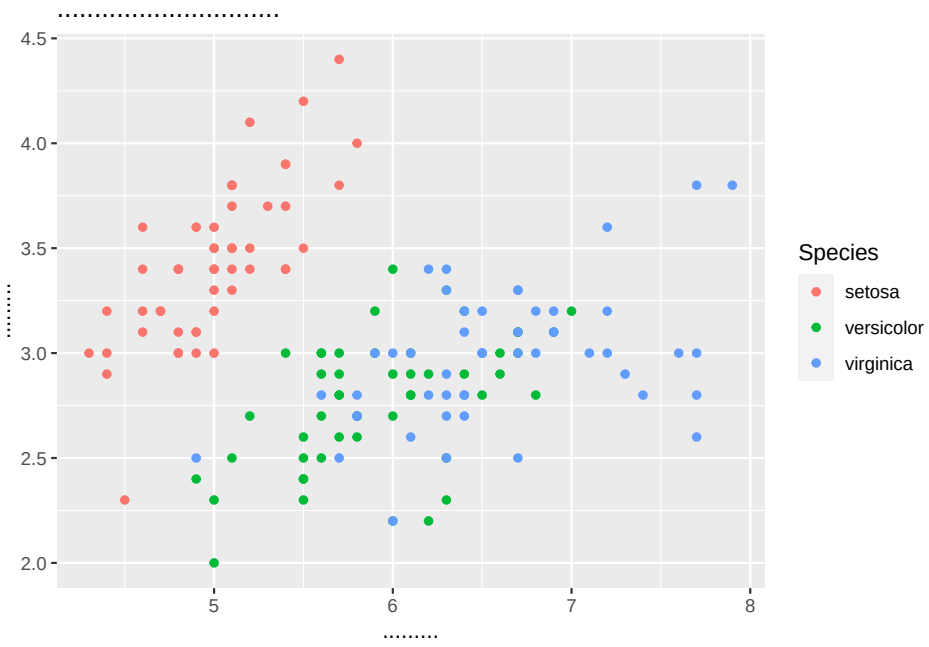
```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e4>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bf>
##

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <82>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e8>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <90>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bc>
##
```

```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e7>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <89>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <87>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b7>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <95>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##
```

```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a8>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e5>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <b9>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <85>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e3>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <81>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <ae>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e9>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <96>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <a2>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <e4>
##

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '      '    : <bf>
##
```

```
## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
## 'mbcsToSbcs'   '     '    : <82>
##
```



ggplot