# (ADP)

2023-05-18

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## **Preface**

This is a Quarto book.

To learn more about Quarto books visit https://quarto.org/docs/books.

1 + 1

[1] 2

### 1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

```
kmeans_spec <- linear_reg()
show_engines("linear_reg")

# A tibble: 7 x 2
engine mode
<chr> <chr>
1 lm regression
2 glm regression
3 glmnet regression
4 stan regression
5 spark regression
6 keras regression
7 brulee regression
```

#### 1.0.0.1

```
yardstick::metric_set()
```

Part I

ADP :

R ADP

## 2 26 ADP

## 3 1

### 3.1 1-1

Table 3.1: Data summary

Name Number of rows	Piped data 35801
Number of columns	8
Key	NULL
Column type frequency:	
character	5
numeric	3
Group variables	None

#### Variable type: character

skim_variable	n_missing	$complete\_rate$	min	max	empty	n_unique	whitespace
InvoiceNo	0	1	6	7	0	1846	0
StockCode	0	1	1	7	0	2668	0

skim_variable	n_missing	$complete\_rate$	min	max	empty	n_unique	whitespace
Description	0	1	6	36	0	2759	0
InvoiceDate	0	1	13	16	0	1827	0
Country	0	1	4	11	0	8	0

#### Variable type: numeric

skim_variabde	_missin <b>g</b> o	mplete_	rambean	$\operatorname{sd}$	p0	p25	p50	p75	p100	hist
Quantity	25	1	18.43	42.16	-	4.00	10.00	16.00	2400.00	
					480					
UnitPrice	97	1	4.61	48.08	0	1.25	1.95	3.75	4161.06	
${\bf Customer ID}$	0	1	13221.8	321012.18	812354	12523.0	012681.0	014156.0	017097.0	0

[1] 1

#### 3.2 1-2

.

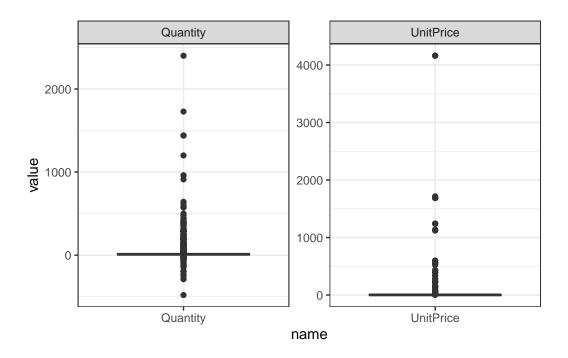
• 3 : 3

• : Box Plot ; 1.5 \* IQR ( )

. , CustomerID

```
db_1b %>% select(Quantity, UnitPrice) %>%
  pivot_longer(cols = everything()) %>% # long
  ggplot(aes(x = name, y = value)) +
```

```
geom_boxplot() + facet_wrap(name ~ ., scales = "free") +
theme_bw()
```



Box Plot

```
# ID
db_1b <- db_1b %>%
  mutate(ID = as.factor(row_number())) # ID

list_id_outlier <- db_1b %>%
  select(ID, Quantity, UnitPrice) %>%
  pivot_longer(cols = c(Quantity, UnitPrice)) %>%
  group_by(name) %>%
  mutate(IQR = quantile(value, 0.75) - quantile(value, 0.25), #
      bound_lower = quantile(value, 0.25) - (IQR * 1.5),
      bound_upper = quantile(value, 0.75) + (IQR * 1.5)) %>%
  ungroup() %>%
  filter(!between(value, bound_lower, bound_upper)) %>%
  select(ID) %>% pull()
```

```
filter(!(ID %in% list_id_outlier))
```

.

db\_1b %>% select(ID, Quantity, UnitPrice) %>% skim() %>%
filter(skim\_type %in% c("numeric"))

Table 3.4: Data summary

Name	Piped data
Number of rows	35679
Number of columns	3
Key	NULL
Column type frequency:	
numeric	2
Group variables	None

#### Variable type: numeric

skim_variablen	_missingcon	nplete_ra	tenean	$\operatorname{sd}$	p0	p25	p50	p75	p100	hist
Quantity	0	1	18.44	42.2		4.00	10.00	16.00	2400.00	
					480					
UnitPrice	0	1	4.61	48.1	0	1.25	1.95	3.75	4161.06	

db\_1c %>% select(ID, Quantity, UnitPrice) %>% skim() %>%
 filter(skim\_type %in% c("numeric"))

Table 3.6: Data summary

Name Number of rows Number of columns Key	Piped data 27657 3 NULL
Column type frequency: numeric	2

$\sim$	. 11
(from	variables
Oroup	T COLL TOOL OF

None

#### Variable type: numeric

skim_variable	n_missing compl	ete_rat	temean	$\operatorname{sd}$	p0	p25	p50	p75	p100	hist
Quantity	0	1	10.68	7.11	-14	6.00	10.00	12.00	34.0	
UnitPrice	0	1	2.19	1.51	0	1.25	1.65	2.95	7.5	

```
35{,}679 27{,}657 , Quantity UnitPrice . , quantity 2400 .
```

#### 3.3 1-3

Kmeans, DBSCANE

.

•

• Quantity , 0

•

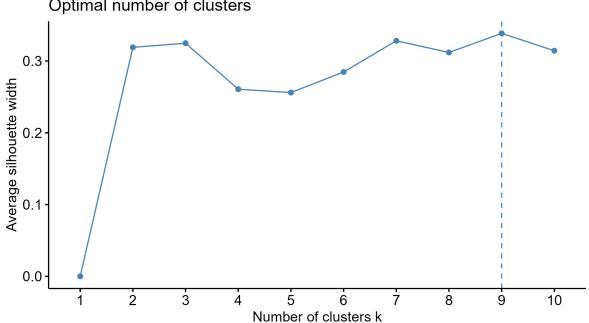
- Quantity, UnitPrice, Country 4
- InvoiceNo, StockCode, Description, CustomerID ID

```
table(db_1c$Country)
```

```
Belgium EIRE France Germany Netherlands Portugal
1688 5623 7013 7849 640 1299
Spain Switzerland
2070 1475
```

```
db_1d <- db_1c %>%
  filter(Quantity > 0) %>%

#
mutate(InvoiceDate = lubridate::parse_date_time(InvoiceDate, "m/d/y H:M")) %>%
recipe( ~ .) %>%
#
```



#### 4 2

#### 4.1 2-1

```
Quantity UnitPrice Country_EIRE Country_France Country_Germany
1 -0.2179648 -0.3447680
                             0.1826324
                                              0.2703782
                                                               0.2882905
2 -0.8825270 1.5920069
                             0.2639833
                                              0.2198989
                                                               0.2472556
3 1.8369418 -0.7289608
                             0.1979652
                                              0.2539212
                                                               0.2795676
  {\tt Country\_Netherlands}\ {\tt Country\_Portugal}\ {\tt Country\_Spain}\ {\tt Country\_Switzerland}
                                              0.07630862
1
            0.01942511
                              0.05077156
                                                                    0.04792738
2
            0.02317477
                              0.04094790
                                              0.08991113
                                                                    0.05227392
3
            0.03921153
                                              0.05807546
                                                                    0.07587961
                              0.04535820
```

#### 4.2 2-2

3 .

```
data.table(cbind(db_1d, cluster = km$cluster))[
    , .N, .(cluster, StockCode)][order(cluster, -N)][
    , .(toString(.SD[1:3]$StockCode)), .(cluster)]
```

```
cluster V1
1: 1 22326, 22554, 22328
2: 2 23245, 22139, 22138
3: 3 21212, 21121, 23307
```

#### 4.3 2-3

```
CustomerID 12413 , 1 12, 2 1, 3 18 3  

db_1f <- data.table(cbind(db_1d, cluster = km$cluster))[CustomerID %in% 12413][
, .N, cluster][order(-N)]

3 , CustomerId 12413 , 3 21790, 22460, 22697

tb_freq <- data.table(
   cbind(db_1d, cluster = km$cluster))[cluster == 3][, .(N = .N / uniqueN(CustomerID)), Stote tb_custm <- data.table(
```

cbind(db\_1d, cluster = km\$cluster))[CustomerID %in% 12413][, .N, StockCode][order(-N)]

StockCode	N	$N_{-}$	_custm
22269	7.000000		NA
22667	6.000000		NA
84926A	5.000000		NA
20682	4.000000		NA
85078	4.000000		NA
21790	3.500000		NA
22577	3.333333		NA
85123A	3.250000		NA
21733	3.000000		NA
22715	3.000000		NA

tb\_candi <- tb\_freq[tb\_custm, on = "StockCode", N\_custm := N]</pre>

tb\_candi %>% head(10) %>% kable()

### 5 3

```
5\%
                90\%
                            (n)
 (SE)
                                  SE = \frac{\sigma}{\sqrt{n}}
    (SE)
                     90\%
                                        , Z
                                   Z = \frac{E}{SE}
                             E = Z \cdot SE = Z \cdot \frac{\sigma}{\sqrt{n}}
Ν
                              n = \frac{Z^2 \cdot p \cdot (1-p)}{E^2}
 \mathbf{R}
confidence_level <- 0.90</pre>
margin_of_error <- 0.05</pre>
z_score <- qnorm((confidence_level + 1) / 2) # 90%</pre>
anticipated_proportion <- 0.5 #</pre>
sample_size <- ceiling(sample_size) #</pre>
print(sample_size)
```

5%

90%,

### 6 4

 month
 1월
 2월
 3월
 4월
 5월
 6월
 7월
 8월
 9월

 USD/oz
 12.14
 42.6
 34.4
 35.29
 30.96
 57.12
 37.84
 42.49
 31.38

#### $6.1 \ 4-1$

3 .

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Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' 'in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :

conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot

substituted for <ec>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' 'in 'mbcsToSbcs': dot substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '1' in 'mbcsToSbcs': dot substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '1' in 'mbcsToSbcs': dot substituted for <9b>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '1' in 'mbcsToSbcs': dot substituted for <94>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '2' in 'mbcsToSbcs': dot substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '2' in 'mbcsToSbcs': dot substituted for <9b>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '2' in 'mbcsToSbcs': dot substituted for <94>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '3' in 'mbcsToSbcs': dot substituted for <ec>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '3' in 'mbcsToSbcs': dot substituted for <9b>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '3' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '7' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '7' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '7' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '8' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '8' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '8' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '9' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '9' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '9' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '1' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '1' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '1' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '2' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '2' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '2' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '3' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '3' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '3' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '7' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '7' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '7' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '8' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '8' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '8' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '9' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '9' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '9' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '1' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '1' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '1' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '2' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '2' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '2' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '3' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '3' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '3' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '4' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '5' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <9b>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on '6' in 'mbcsToSbcs': dot substituted for <94>

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Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
```

conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
```

Warning in grid.Call.graphics(C\_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :

conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>

```
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <eb>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' 'in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>
```

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <bo>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <80>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>

Warning in grid.Call(C\_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ec>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' 'in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' 'in 'mbcsToSbcs': dot substituted for <bo>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' 'in 'mbcsToSbcs': dot substituted for <80>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <ea>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

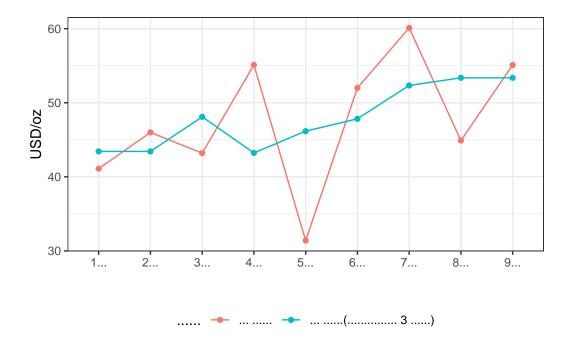
```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call(C textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
```

```
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b2>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a9>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <9d>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b4>
```

```
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <eb>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <99>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ed>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <8f>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <89>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b7>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a0>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
```

```
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <92>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ea>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b8>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <b0>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <ec>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <a4>
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on ' ( 3 )' in 'mbcsToSbcs': dot
substituted for <80>
```



### 6.2 4-2

```
1 9 ?

db_4b_jan <- filter(db_4a, month == "1")
db_4b_sep <- filter(db_4a, month == "9")

round(((db_4b_sep$usd - db_4b_jan$usd) / db_4b_jan$usd ) * 100, 2)</pre>
```

[1] 34.06

### 7 5

```
W , .
    A, B, C
  db_5a <- tibble(</pre>
     = c(" ", " "),
     _A = c(176, 124),
     _{B} = c(193, 107),
     _{C} = c(159, 141)
  )
7.1 5-1
    :
              W
7.2 5-2
      2
               95\%
  db_5b <- chisq.test(db_5a[-1])</pre>
  cat(" :", round(db_5b$statistic, 2))
  : 7.95
  cat(" : ", (round(db_5b$p.value, 2)))
```

: 0.02

0.02 95% 0.05 . , W

8 6

A 16 9 problem4.csv . ,

# 9 6-1

.

::

### 10 6-2

```
db_6a <- fread("test/26/problem4.csv")

t.test(db_6a[gender %in% "male"]$pressure, db_6a[!(gender %in% "male")]$pressure, var.equa

Two Sample t-test

data: db_6a[gender %in% "male"]$pressure and db_6a[!(gender %in% "male")]$pressure

t = 1.5983, df = 23, p-value = 0.1236

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:
    -1.856072 14.471350

sample estimates:
mean of x mean of y
    96.21875 89.91111

95% , p-value 0.1236 0.05 ,</pre>
```

## 11 6-3

6-2 .

cat(t.test(db\_6a[gender %in% "male"]\$pressure, db\_6a[!(gender %in% "male")]\$pressure, var.

-1.856072 14.47135

## 12 7

 $\begin{aligned} &\text{data} <&\text{-data.frame( height} = c(174.396, 179.656, 175.079, 180.804, 177.448), weight = c(72.102, 81.255, 76.207, 81.354, 78.768), waistline = c(79.3787, 80.6649, 80.3166, 80.8794, 80.3499) \ ) \end{aligned}$ 

## 13 27 ADP

## 1.

### 1.1. (EDA) .

Table 13.1: Data summary

Name	Piped data
Number of rows	1193
Number of columns	20
Key	NULL
Column type frequency:	
numeric	20
Group variables	None

#### Variable type: numeric

skim_	varia <b>h</b> lemissingomplete	_r <b>ane</b> an	$\operatorname{sd}$	p0	p25	p50	p75	p100	hist
Time	0 1	91514.	4947896.0	860.00	50265.0	081797.00	136995.0	072676.	00

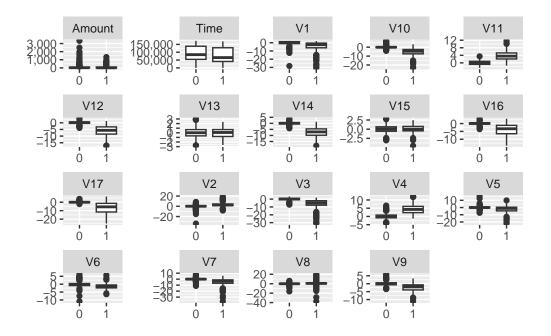
skim_	_varia <b>h</b> le_missin <b>g</b> on	nplete_	_r <b>ane</b> an	$\operatorname{sd}$	p0	p25	p50	p75	p100	hist
$\overline{\text{V1}}$	0	1	-0.76	3.62	-	-1.30	-0.30	1.25	2.32	
					30.55					
V2	0	1	0.54	2.66	-	-0.44	0.23	1.11	19.17	
170				2.01	33.64	1.01	0.00	0.01	2.22	
V3	0	1	-1.15	3.91	- 01 10	-1.61	-0.23	0.81	3.32	
V4	0	1	0.79	2.35	31.10	0.61	0.22	1 94	12.11	
V 4	U	1	0.78	2.55	4.29	-0.61	0.33	1.34	12.11	
V5	0	1	-0.41	2.70	4.23	-0.84	-0.07	0.68	15.28	
v o	O	1	-0.41	2.10	22.11	-0.04	-0.01	0.00	10.20	
V6	0	1	-0.28	1.51		-1.02	-0.38	0.30	6.27	
					10.89					
V7	0	1	-0.85	3.40	_	-0.81	-0.08	0.46	8.12	
					37.06					
V8	0	1	0.15	2.47	-	-0.22	0.07	0.45	20.01	
					37.35					
V9	0	1	-0.45	1.66	-	-1.04	-0.21	0.45	5.92	
T710	0	-	0.00	2.00	11.13	0.00	0.00	0.00	7 1 4	
V10	0	1	-0.90	2.90	- 	-0.88	-0.23	0.29	7.14	
V11	0	1	0.66	1.96	23.23	-0.60	0.28	1.21	11.67	
VII	U	1	0.00	1.90	2.65	-0.00	0.20	1.21	11.01	
V12	0	1	-1.01	3.00	-	-0.97	-0.01	0.51	3.11	
	, and the second			0.00	17.23	0.0.	0.0-	0.02	0	
V13	0	1	0.01	1.01	_	-0.69	0.02	0.70	3.07	
					2.80					
V14	0	1	-1.17	3.23	-	-0.95	-0.10	0.42	3.89	
					18.49					
V15	0	1	0.02	0.91	-	-0.55	0.05	0.66	2.87	
		_	0.00	2 25	4.50			0.40	0.4.4	
V16	0	1	-0.63	2.27	- 1419	-0.70	-0.06	0.46	3.14	
<b>1717</b>	0	1	1.07	9.01	14.13	0.60	0.15	0.27	6 71	
V17	0	1	-1.07	3.81	- 25.16	-0.68	-0.15	0.37	6.74	
Amou	ınt 0	1	88.89	220.14	0.00	3.54	20.99	77.49	3335.73	
Class		1	0.17	0.37	0.00	0.00	0.00	0.00	1.00	
	V	_	0.11	0.01	0.00	0.00	0.00	0.00	1.00	

:

• (numeric) , Class (factor)

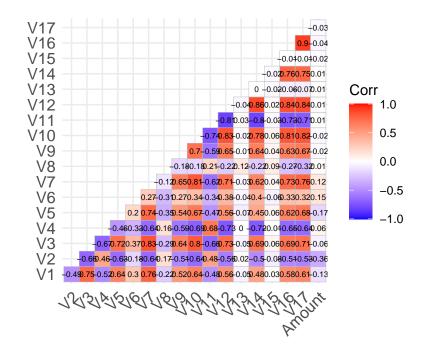
#### • Class 1 16.7%

```
db_1a %>%
    # id
    mutate(id = row_number()) %>%
    # Wide-to-long
    pivot_longer(cols = !c(id, Class)) %>%
    ggplot(aes(x = as.factor(Class), y = value)) +
    geom_boxplot() +
    facet_wrap(name ~ ., scales = "free") +
    labs(x = "", y = "") +
    scale_y_continuous(labels = comma)
```



#### 1.2.

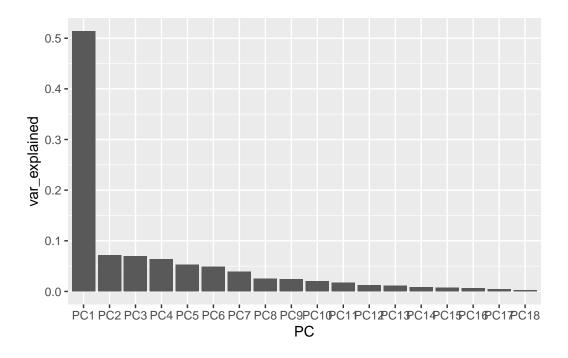
db\_1a %>% select(-c("Time", "Class")) %>%
cor() %>% ggcorrplot(type = "lower", lab = TRUE, lab\_size = 2)



V1-V3, V14-V17 0.75 .

2.

```
2.1.
           2
     PCA
             , MDS , t-SNE .
                                                                      t-SEN
               PCA
PCA
                 scree
  db_1b <- db_1a %>% select(-c("Time", "Class"))
  # PCA
           recipe
  rec <- recipe(~., data = db_1b) %>%
    step_center(all_predictors()) %>%
    step_scale(all_predictors()) %>%
    step_pca(all_predictors())
  # recipe ( )
  prep_rec <- prep(rec)</pre>
  # Scree
  sdev <- prep_rec$steps[[3]]$res$sdev</pre>
  percent_variation <- sdev^2 / sum(sdev^2)</pre>
  data.frame(PC=paste0("PC",1:length(sdev)),
                       var_explained=percent_variation,
                        stringsAsFactors = FALSE) %>%
    mutate(PC = fct_inorder(PC)) %>%
    ggplot(aes(x=PC,y=var_explained))+geom_col()
```

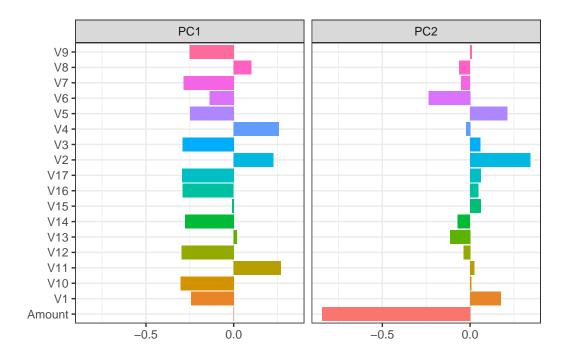


2 . 2 .

2 PCA

```
db_1b <- db_1a %>% select(-c("Time", "Class"))
        recipe
# PCA
rec <- recipe(~., data = db_1b) %>%
  step_center(all_predictors()) %>%
  step_scale(all_predictors()) %>%
  step_pca(all_predictors(), num_comp = 2) #
prep_rec <- prep(rec)</pre>
tidy_rec <- tidy(prep_rec, number = 3)</pre>
tidy_rec %>%
  filter(component %in% paste0("PC", 1:2)) %>%
  mutate(component = fct_inorder(component)) %>%
  ggplot(aes(value, terms, fill = terms)) +
  geom_col(show.legend = FALSE) +
  facet_wrap(~component, nrow = 1) +
  labs(y = NULL, x = NULL) +
```

### theme\_bw()



3.

3.1.

```
: ,
: ,
: ,
: . Class 20 ,
table(db_1a$Class)
```

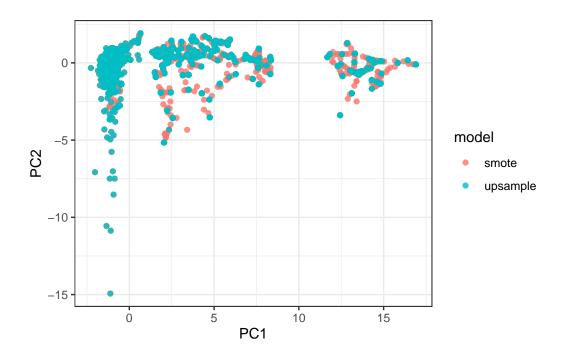
, 1) SMOTE 2) upsampling

#### 3.2. 2

993 200

db\_1c <- db\_1a[, -c("Time")]

# Recipe
rec <- recipe(Class ~ ., data = db\_1c) %>%
 step\_mutate(Class = as.factor(Class)) %>%
 step\_center(all\_predictors(), -all\_outcomes()) %>%
 step\_scale(all\_predictors(), -all\_outcomes()) %>%
 step\_pca(all\_predictors(), -all\_outcomes(), num\_comp = 2) # 2

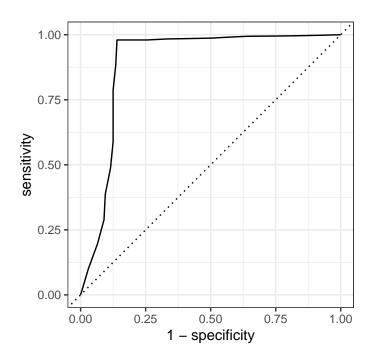


, upsample SMOTE

3.3.

```
set.seed(2023)
  db_1c <- db_1a[, -c("Time")]</pre>
  # Recipe
  rec <- recipe(Class ~ ., data = db_1c) \%>%
    step_mutate(Class = as.factor(Class)) %>%
    step_center(all_predictors(), -all_outcomes()) %>%
    step_scale(all_predictors(), -all_outcomes()) %>%
    step_pca(all_predictors(), -all_outcomes(), num_comp = 2) #
  model_spec <- decision_tree() %>%
    set engine("rpart") %>%
    set_mode("classification")
  # SMOTE
  rec_smote <- rec %>% step_smote(Class) %>% prep(db_1c)
  wk_smote <- workflow() %>% add_recipe(rec_smote) %>% add_model(model_spec)
  cv <- vfold_cv(db_1c)</pre>
  result_smote <- fit_resamples(</pre>
    wk_smote,
    resamples = cv,
    control = control_resamples(save_pred = TRUE))
  predictions <- result_smote %>%
    collect predictions()
  collect_metrics(result_smote)
# A tibble: 2 x 6
                                n std_err .config
  .metric .estimator mean
 <chr>
          <chr>
                     <dbl> <int>
                                    <dbl> <chr>
1 accuracy binary
                     0.960
                              10 0.00671 Preprocessor1_Model1
                               10 0.0185 Preprocessor1_Model1
2 roc_auc binary
                     0.922
```

predictions %>%
 yardstick::roc\_curve(Class, .pred\_0) %>% autoplot()



95.9%, AUC 92.1%

4.

#### 13.1 4.1.

- Isolation Forest: , , ,
  - : ,
- Autoencoder: , , , Autoencoder ,
  - :
  - :

#### 13.2 4.2.

```
db_1c <- db_1a[, -c("Time")]

# Recipe
rec <- recipe(Class ~ ., data = db_1c) %>%
    step_mutate(Class = as.factor(Class)) %>%
    step_center(all_predictors(), -all_outcomes()) %>%
    step_scale(all_predictors(), -all_outcomes()) %>%
    step_pca(all_predictors(), -all_outcomes(), num_comp = 2) # 2

# SMOTE
rec_smote <- rec %>% step_smote(Class) %>% prep(db_1c)

wk_smote <- workflow() %>% add_recipe(rec_smote) %>% add_model(model_spec)
data_preprocessed <- juice(rec_smote)</pre>
```

```
model <- isolationForest$new()</pre>
  model$fit(data_preprocessed[, -which(names(data_preprocessed) == "Class")])
INFO
      [16:09:41.628] dataset has duplicated rows
INFO
     [16:09:41.649] Building Isolation Forest ...
INFO [16:09:41.674] done
INFO [16:09:41.674] Computing depth of terminal nodes ...
INFO [16:09:41.878] done
INFO [16:09:41.919] Completed growing isolation forest
  scores <- model$predict(data_preprocessed[, -which(names(data_preprocessed) == "Class")])</pre>
  data_preprocessed$anomaly_score <- scores
  quantile(data_preprocessed$anomaly_score$anomaly_score)
       0%
                25%
                          50%
                                    75%
                                              100%
0.5820092 0.5827973 0.5847722 0.5955529 0.7654805
  threshold <- 0.6
  data_preprocessed anomaly <- ifelse (data_preprocessed anomaly_score > threshold, 1, 0)
  ttt <- as.data.table(data_preprocessed$anomaly)</pre>
  data_preprocessed$anomaly <- as.factor(ttt$anomaly_score)</pre>
  table(data_preprocessed$Class, data_preprocessed$anomaly)
      0
 0 929 64
  1 649 344
  tttt <- data_preprocessed %>%
    conf_mat(truth = Class, estimate = anomaly)
  class_metrics <- metric_set(accuracy, sens, spec)</pre>
```

- $\bullet \ \ https://www.kaggle.com/code/johyunkang/adp-27/notebook$

# 14 Summary

In summary, this book has no content whatsoever.

1 + 1

[1] 2

## References

Knuth, Donald E. 1984. "Literate Programming." Comput.~J.~27~(2):~97-111.~https://doi.org/10.1093/comjnl/27.2.97.