(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.

```r
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

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

Part I

ADP :

R   ADP

2 26 ADP

3 1

3.1 1-1

.

```r
pacman::p_load(tidyverse, tidymodels, data.table, gt, knitr,
               skimr, ggcorrplot, themis, solitude)

db_1a <- fread("test/26/problem1.csv")
```

skim   .

```r
db_1a %>% skimr::skim()
```

Table 3.1: Data summary

Name	Piped data
Number of rows	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_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
Quantity	25	1	18.43	42.16	-480	4.00	10.00	16.00	2400.00	
UnitPrice	97	1	4.61	48.08	0	1.25	1.95	3.75	4161.06	
CustomerID	0	1	13221.82	1012.18	12354	12523.00	12681.00	14156.00	17097.00	

8   35,801   . 8   5   , 3   ,   . Quantity UnitPrice   25 , 97
.

```r
db_1b <- db_1a %>%
  filter(!(is.na(Quantity) | is.na(UnitPrice)))
```

.

```r
db_1b %>% complete_rate()
```

```
[1] 1
```

3.2 1-2

,   .

:

- 3   :   3
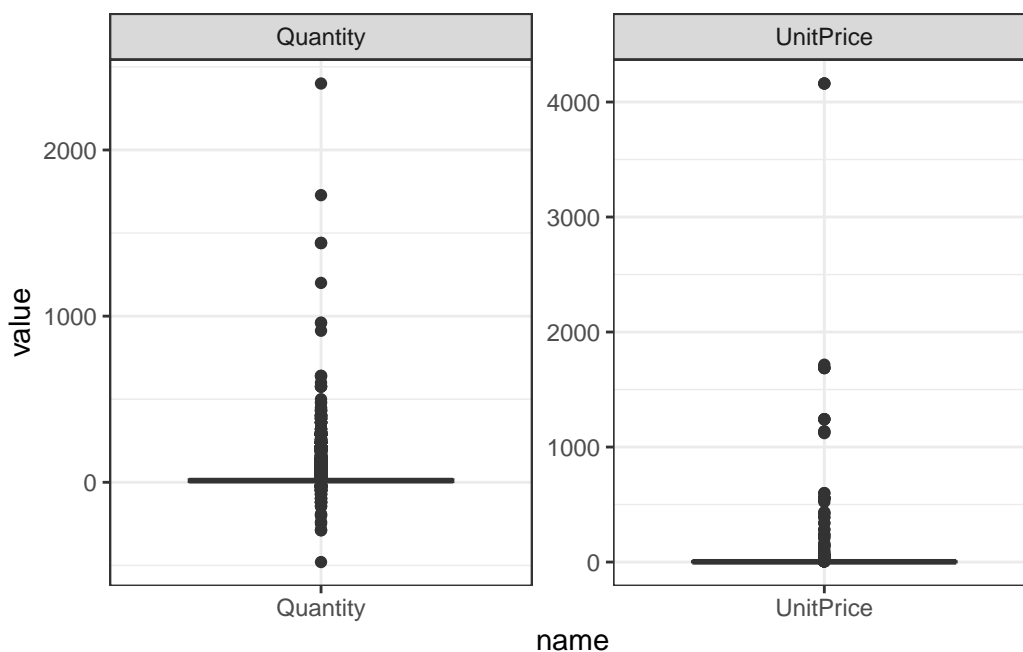-   : Box Plot   ; 1.5 * IQR (   )

            .   , CustomerID   .

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

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


 Box Plot   .

```r
#     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()

db_1c <- db_1b %>%
```

```
    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_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
Quantity	0	1	18.44	42.2	-480	4.00	10.00	16.00	2400.00	
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	Piped data
Number of rows	27657
Number of columns	3
Key	NULL
Column type frequency:	
numeric	2

Variable type: numeric

skim_variable	n_missing	complete_rate	mean	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
     34 ,   .

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( ~ .) %>%
  #
```

```
    update_role(ID, CustomerID, InvoiceNo, new_role = "ID") %>%
    #
    # step_date(InvoiceDate, features = c("month")) %>%
      #
    step_dummy(Country) %>%
    step_rm(Description, InvoiceDate, all_string_predictors(), all_datetime()) %>%
    #
    step_normalize(UnitPrice, Quantity) %>%
    prep() %>% juice()
```

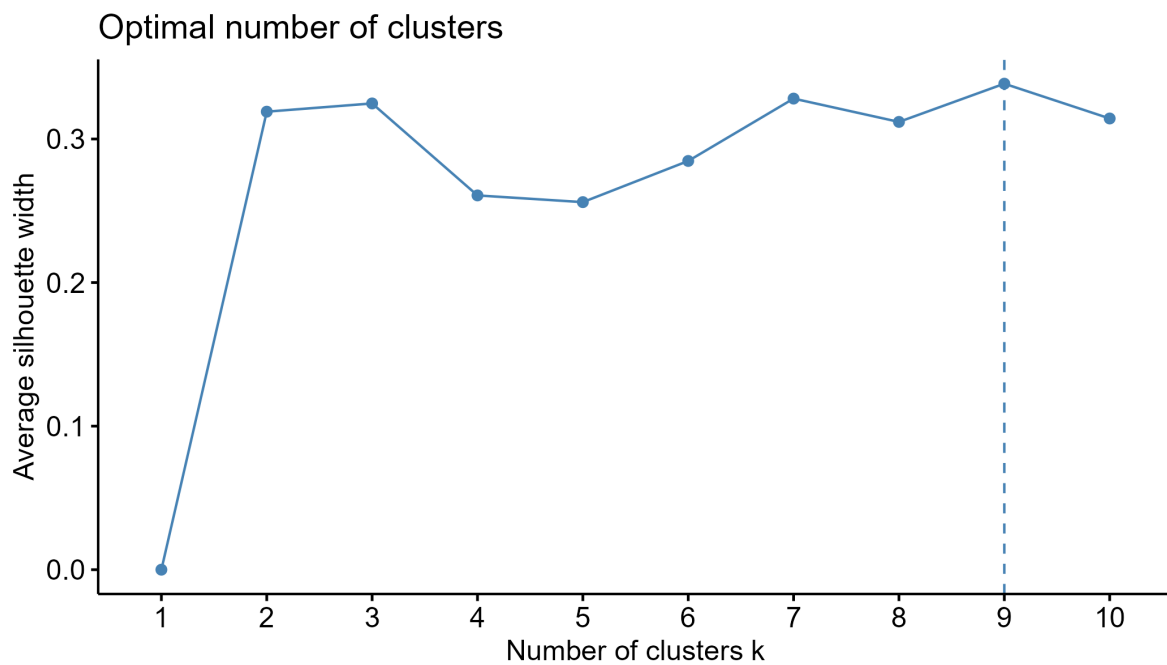   .   9   ,   ,   **3**   .

```
pacman::p_load(factoextra)

db_1f <- db_1d %>%
  select(-c(InvoiceNo, StockCode, ID, CustomerID))


## kmeans
plot_find_k <- fviz_nbclust(db_1f, kmeans)
```


Optimal number of clusters

4 2

4.1 2-1

1 .

3 :

- 1 , EIRE
- 2 , France
- 3 Netherlands

```r
km <- kmeans(db_1f, 3)
km$centers
```

```
   Quantity  UnitPrice Country_EIRE Country_France Country_Germany
1 -0.1517417 -0.4490393    0.1779445      0.2770334       0.2891599
2  1.8662197 -0.7177269    0.1950424      0.2533159       0.2828876
3 -0.8472372  1.3414492    0.2566716      0.2183184       0.2527826
  Country_Netherlands Country_Portugal Country_Spain Country_Switzerland
1          0.01989816       0.05105186    0.07483586          0.04696503
2          0.04022614       0.04587954    0.05783866          0.07675582
3          0.02105404       0.04224219    0.08958026          0.05310447
```

4.2 2-2

.

3 .

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

```
    cluster                      V1
1:       1 22554, 22556, 22629
2:       2 21212, 21121, 23307
3:       3 22326, 22328, 23245
```

4.3 2-3

CustomerID 12413   .

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

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

 3   , CustomerId 12413   .   3   21790, 22460, 22697

      .

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

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

tb_candi <- tb_freq[tb_custm, on = "StockCode", N_custm := N]

tb_candi %>% head(10) %>% kable()
```

StockCode	N	N_custm
22766	4.500000	NA
21912	4.166667	NA
22835	4.000000	NA
23081	4.000000	NA
72802B	4.000000	NA
23099	4.000000	NA
72802C	4.000000	NA
21470	3.666667	NA
85048	3.500000	NA
23413	3.500000	NA

5 3

. , 90%, 5% ?

, 90% 5% .

(SE) , (n) .

$$SE = \frac{\sigma}{\sqrt{n}}$$

(SE) . 90% . , Z .

$$Z = \frac{E}{SE}$$

.

$$E = Z \cdot SE = Z \cdot \frac{\sigma}{\sqrt{n}}$$

N .

$$n = \frac{Z^2 \cdot p \cdot (1-p)}{E^2}$$

R .

```r
#
confidence_level <- 0.90
margin_of_error <- 0.05
z_score <- qnorm((confidence_level + 1) / 2)  # 90%      Z

anticipated_proportion <- 0.5   #

#
sample_size <- (z_score^2 * anticipated_proportion * (1 - anticipated_proportion)) / margi
sample_size <- ceiling(sample_size)   #

print(sample_size)
```

[1] 271

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

1   9

6.1 4-1

3   .

```r
db_4a <- tibble(
  month = c(paste0(c(1:9), " ")),
  usd =  c(41.1, 46.0, 43.2, 55.1, 31.4, 52.0, 60.1, 44.9, 55.1))

db_4b <- recipe(month ~ ., data = db_4a) %>%
  step_mutate(usd_window3 = usd) %>%
  step_window(usd_window3, size = 3) %>%
  prep() %>% juice()

db_4b %>% pivot_longer(cols = starts_with("usd")) %>%
  mutate(name = factor(name, levels = c("usd", "usd_window3"),
                       labels = c("   ", "  (   3  )"))) %>%
  ggplot(aes(x = month, y = value, color = name, group = name)) +
  geom_point() +
  geom_line() + theme_bw() +
  labs(x = "", y = "USD/oz", color = " ") +
  theme(legend.position = "bottom")
```

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


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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.graphics(C_text, as.graphicsAnnot(x$label), x$x, x$y, :
conversion failure on '1 ' in 'mbcsToSbcs': dot substituted for <ec>


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


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


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


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


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


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 <9b>
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Warning in grid.Call.graphics(C_text, 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 ' ' 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>


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


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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 <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>

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

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>
```
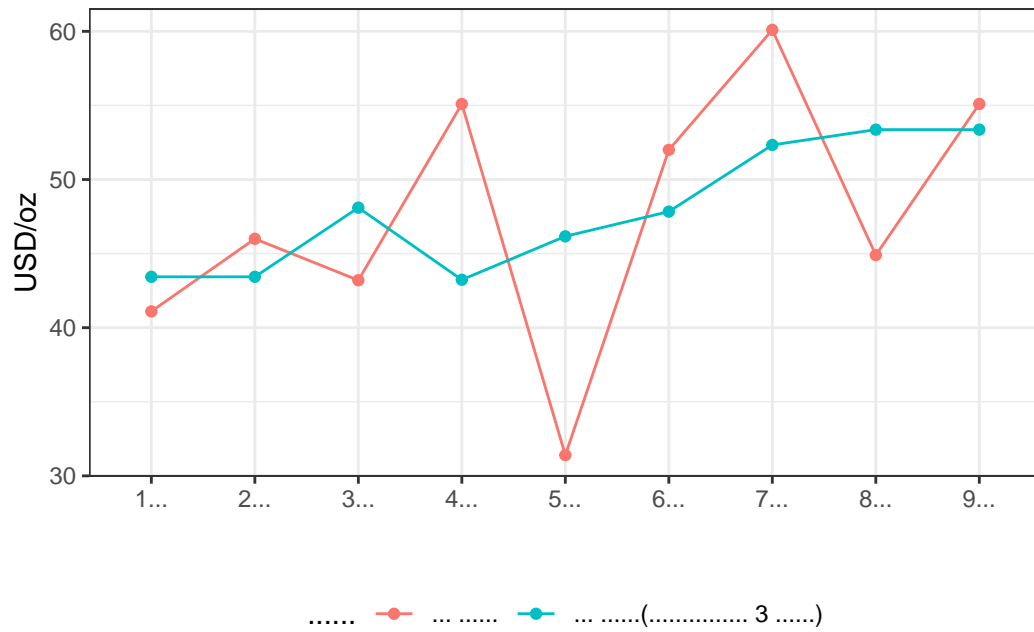
60

50

USD/oz

40

30

1...   2...   3...   4...   5...   6...   7...   8...   9...

...... ——●—— ... . ——●—— ... .(.............. 3 ......)

6.2 4-2

    1   9   ?

```r
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)
```

[1] 34.06

7   5

A, B, C   W   ,   .   .

```r
db_5a <- tibble(
     = c("     ", "      "),
    _A = c(176, 124),
    _B = c(193, 107),
    _C = c(159, 141)
)
```

7.1 5-1

.

:

- : W   .
- : W   .

7.2 5-2

2   95%   .

.

```r
db_5b <- chisq.test(db_5a[-1])
cat("   :", round(db_5b$statistic, 2))
```

: 7.95

```r
cat("   : ", (round(db_5b$p.value, 2)))
```

: 0.02

0.02 95%   0.05   . ,   W   .

154

8 6

A 16 9 problem4.csv . ,
.

9 6-1

        .

      :

-   :   .
-   :   .

10 6-2

.

,   t-test   .

```r
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   ,   .

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

0   ,   . ,   .

12 7

data <- 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))

13 27 ADP

1.

1.1. (EDA) .

.

```
pacman::p_load(tidyverse, tidymodels, data.table, gt,
               skimr, ggcorrplot, themis, solitude)
```

.

```
db_1a <- fread("test/27/data/problem1.csv")
```

(EDA) `skim` .

```
db_1a %>% skim()
```

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_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
Time	0	1	91514.49	47896.08	60.00	50265.00	81797.00	136995.00	172676.00	

skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
V1	0	1	-0.76	3.62	-30.55	-1.30	-0.30	1.25	2.32	
V2	0	1	0.54	2.66	-33.64	-0.44	0.23	1.11	19.17	
V3	0	1	-1.15	3.91	-31.10	-1.61	-0.23	0.81	3.32	
V4	0	1	0.78	2.35	-4.29	-0.61	0.33	1.34	12.11	
V5	0	1	-0.41	2.70	-22.11	-0.84	-0.07	0.68	15.28	
V6	0	1	-0.28	1.51	-10.89	-1.02	-0.38	0.30	6.27	
V7	0	1	-0.85	3.40	-37.06	-0.81	-0.08	0.46	8.12	
V8	0	1	0.15	2.47	-37.35	-0.22	0.07	0.45	20.01	
V9	0	1	-0.45	1.66	-11.13	-1.04	-0.21	0.45	5.92	
V10	0	1	-0.90	2.90	-23.23	-0.88	-0.23	0.29	7.14	
V11	0	1	0.66	1.96	-2.65	-0.60	0.28	1.21	11.67	
V12	0	1	-1.01	3.00	-17.23	-0.97	-0.01	0.51	3.11	
V13	0	1	0.01	1.01	-2.80	-0.69	0.02	0.70	3.07	
V14	0	1	-1.17	3.23	-18.49	-0.95	-0.10	0.42	3.89	
V15	0	1	0.02	0.91	-4.50	-0.55	0.05	0.66	2.87	
V16	0	1	-0.63	2.27	-14.13	-0.70	-0.06	0.46	3.14	
V17	0	1	-1.07	3.81	-25.16	-0.68	-0.15	0.37	6.74	
Amount	0	1	88.89	220.14	0.00	3.54	20.99	77.49	3335.73	
Class	0	1	0.17	0.37	0.00	0.00	0.00	0.00	1.00	

:

•
•　　　(numeric)　　, Class　　　　　　　(factor)
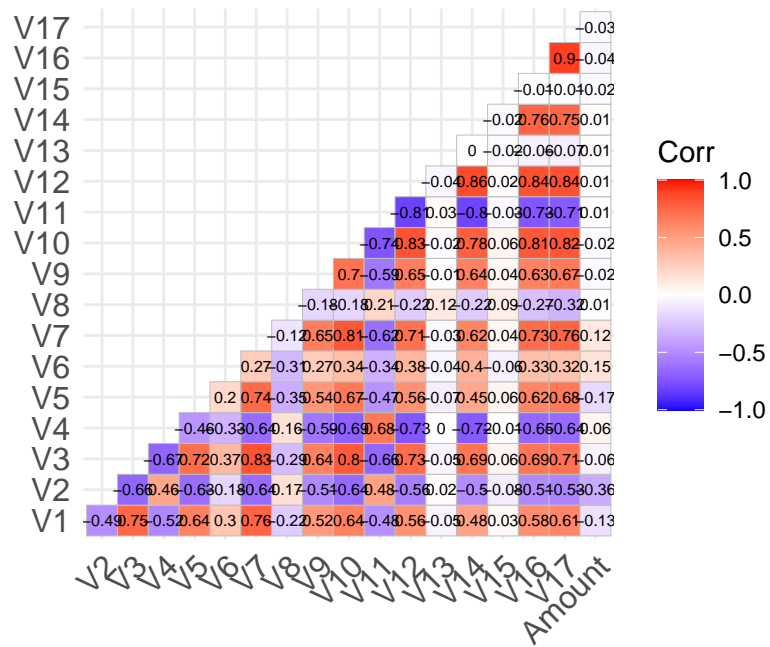
- Class 1   16.7%

.

```
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)
```
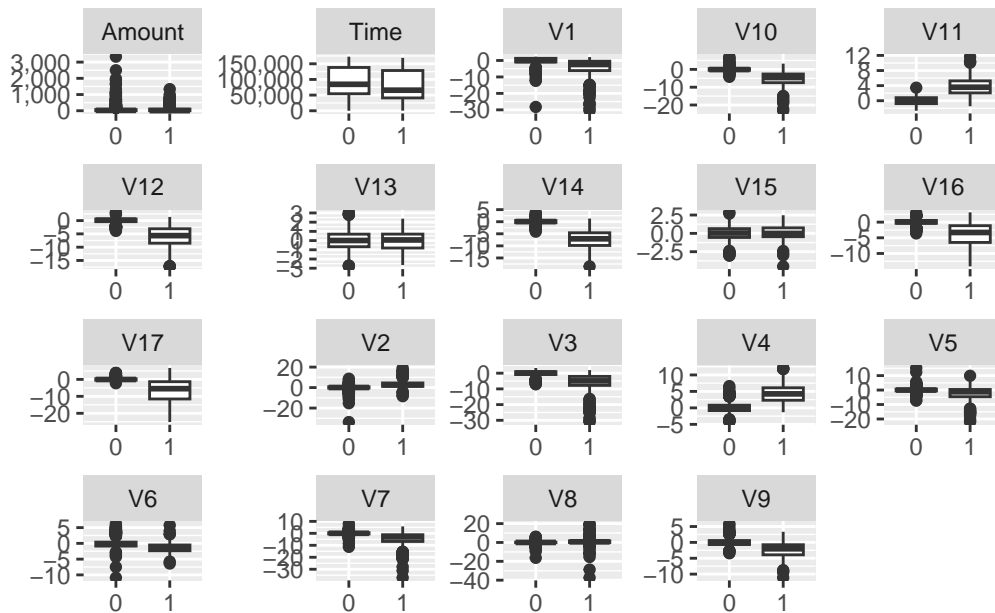

1.2.

.

```
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　　　　.
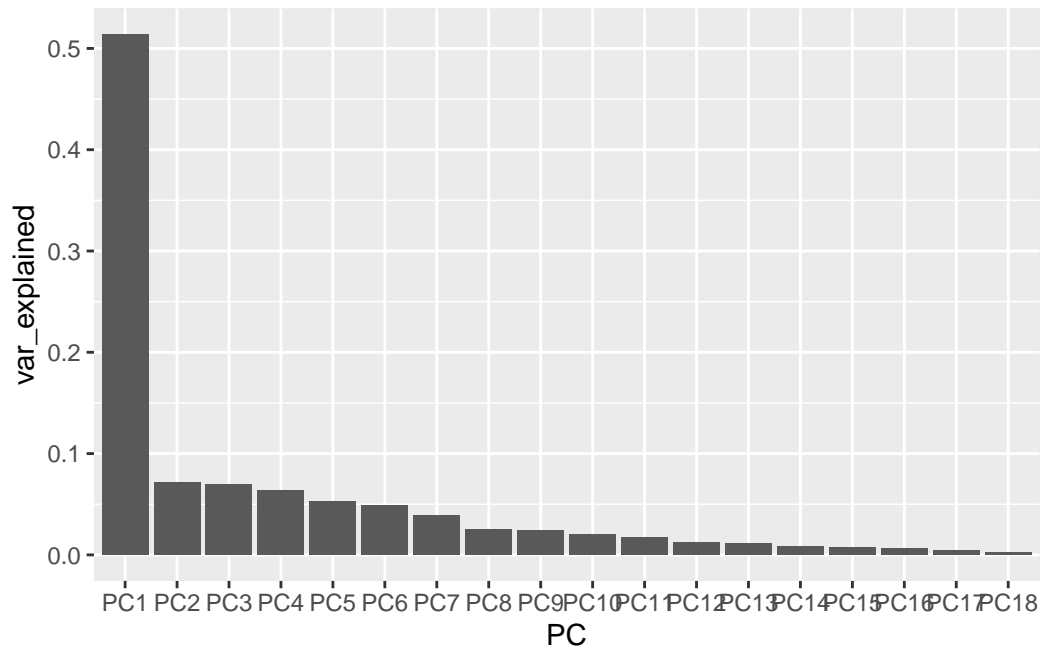
PCA　　　　　　scree　　　.

```
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)

# Scree
sdev <- prep_rec$steps[[3]]$res$sdev
percent_variation <- sdev^2 / sum(sdev^2)
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   1   .   2   .

2   PCA   .

```r
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(), num_comp = 2) #    2

prep_rec <- prep(rec)

tidy_rec <- tidy(prep_rec, number = 3)

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) +
```
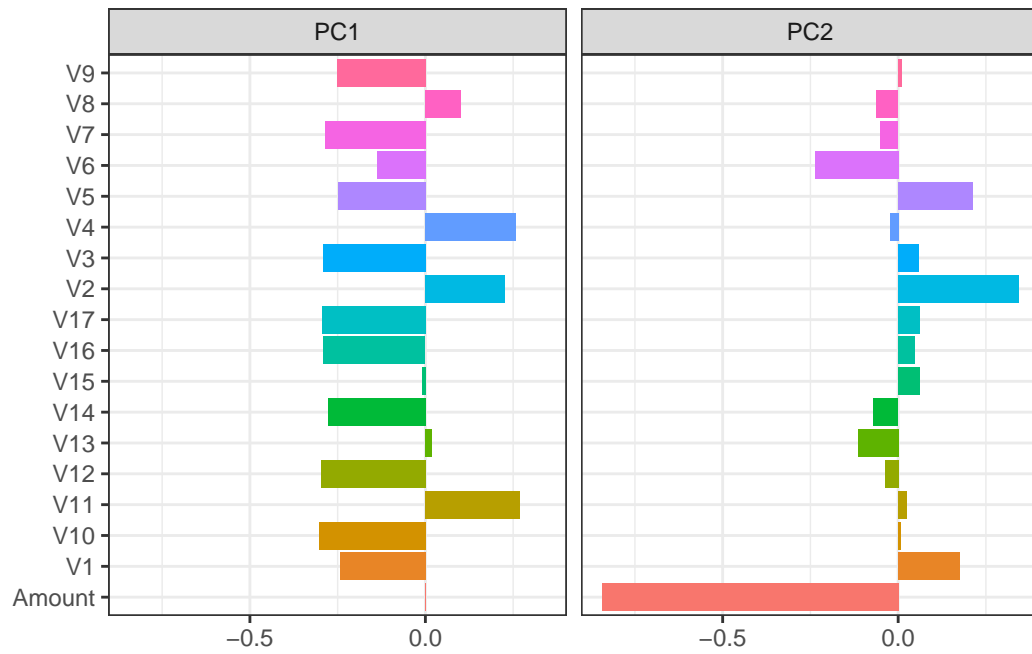
```
theme_bw()
```

3.

3.1.   .

                    .

- :   ,
- :

                    .

- :   ,
- :

                    . Class   20 ,   .

```
table(db_1a$Class)
```

```
  0    1
993  200
```

3.2.   2   .

        , 1) SMOTE 2) upsampling   .

```r
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
```
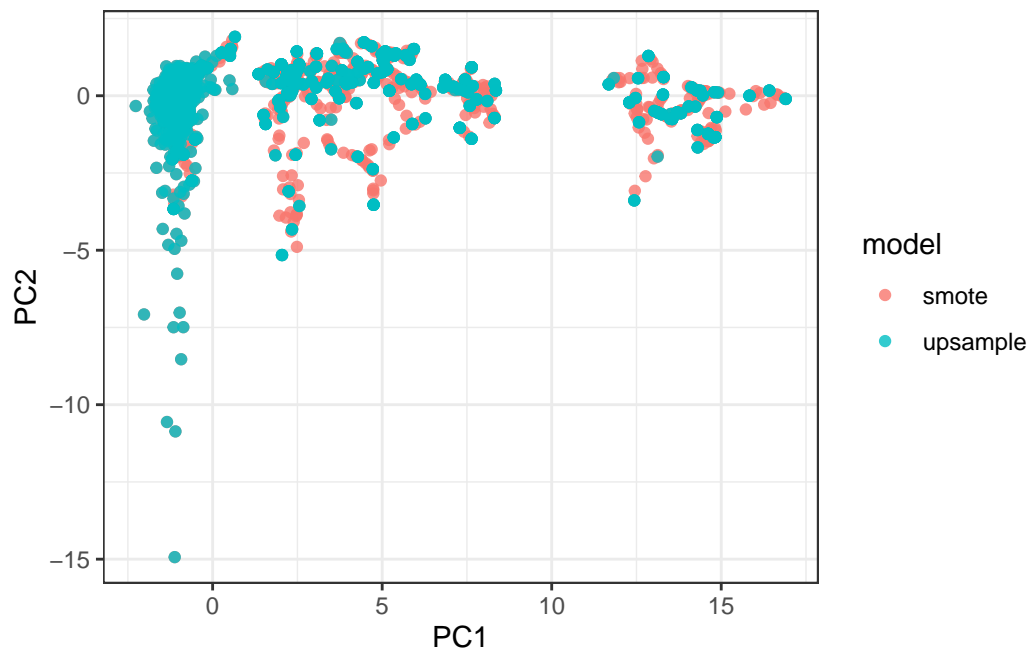
```
#
model_spec <- decision_tree() %>%
  set_engine("rpart") %>%
  set_mode("classification")

# SMOTE
rec_smote <- rec %>% step_smote(Class) %>% prep(db_1c) %>% bake(new_data = NULL)
rec_upsample <- rec %>% step_upsample(Class) %>% prep(db_1c) %>% bake(new_data = NULL)

bind_rows(rec_smote %>% mutate(model = "smote"),
          rec_upsample %>% mutate(model = "upsample")) %>%
  ggplot(aes(x = PC1, y = PC2, color = model)) +
  geom_point(alpha = 0.8) +
  theme_bw()
```


, upsample SMOTE .

3.3.   ,

```r
set.seed(2023)

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

#
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)

result_smote <- fit_resamples(
  wk_smote,
  resamples = cv,
  control = control_resamples(save_pred = TRUE))

predictions <- result_smote %>%
  collect_predictions()

collect_metrics(result_smote)
```
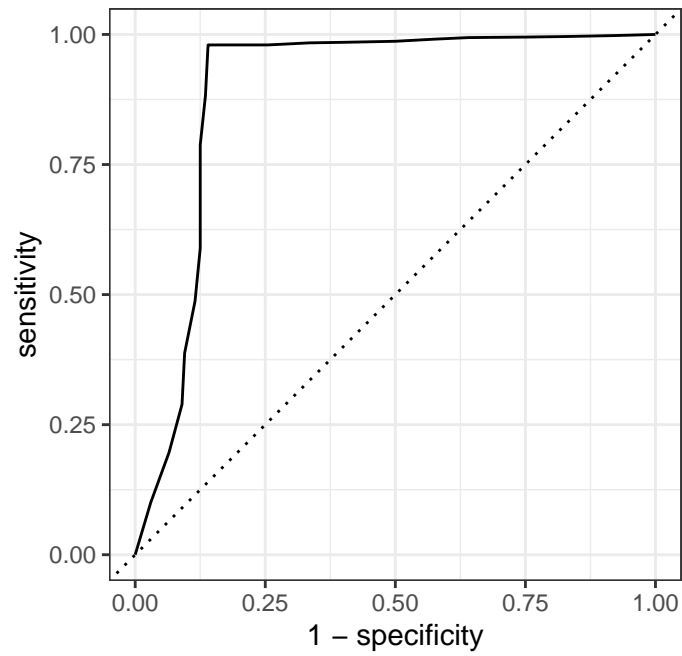
```
# A tibble: 2 x 6
  .metric  .estimator  mean      n std_err .config
  <chr>    <chr>      <dbl> <int>   <dbl> <chr>
1 accuracy binary     0.960    10 0.00671 Preprocessor1_Model1
2 roc_auc  binary     0.922    10 0.0185  Preprocessor1_Model1
```

```
predictions %>%
  yardstick::roc_curve(Class, .pred_0) %>% autoplot()
```


,   95.9%, AUC 92.1%   .

4.

13.1 4.1.   2   .

- Isolation Forest: ,   .   ,

  - :   ,
  - :
- Autoencoder: ,   .   ,   Autoencoder   ,   ,
                .   .

  - :
  - :

13.2 4.2.   3

```r
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)
```

```r
  model <- isolationForest$new()
  model$fit(data_preprocessed[, -which(names(data_preprocessed) == "Class")])
```

```
INFO  [20:09:00.319] dataset has duplicated rows
INFO  [20:09:00.337] Building Isolation Forest ...
INFO  [20:09:00.364] done
INFO  [20:09:00.364] Computing depth of terminal nodes ...
INFO  [20:09:00.562] done
INFO  [20:09:00.602] Completed growing isolation forest
```

```r
  scores <- model$predict(data_preprocessed[, -which(names(data_preprocessed) == "Class")])
  data_preprocessed$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
```

```r
  #
  threshold <- 0.6
  data_preprocessed$anomaly <- ifelse(data_preprocessed$anomaly_score > threshold, 1, 0)

  # SMOTE
  ttt <- as.data.table(data_preprocessed$anomaly)

  data_preprocessed$anomaly <- as.factor(ttt$anomaly_score)
  table(data_preprocessed$Class, data_preprocessed$anomaly)
```

```
      0   1
 0 929  64
 1 649 344
```

```r
  tttt <- data_preprocessed %>%
    conf_mat(truth = Class, estimate = anomaly)


  class_metrics <- metric_set(accuracy, sens, spec)
```

```
data_preprocessed |>
  class_metrics(truth = Class, estimate = anomaly)
```

```
# A tibble: 3 x 3
  .metric  .estimator .estimate
  <chr>    <chr>          <dbl>
1 accuracy binary         0.641
2 sens     binary         0.936
3 spec     binary         0.346
```

- https://amaruak00.github.io/2022/12/17/adp27th.html
- https://www.datamanim.com/dataset/ADPpb/00/27.html
- 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.