

(ADP)

2023-05-18

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Preface

This is a Quarto book.

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

1 + 1

[1] 2

1 Introduction

This is a book created from markdown and executable code.

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

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

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

1.0.0.1

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

Part I

ADP :

R ADP

2 26 ADP

3 1

3.1 1-1

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

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

skim

```
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	-	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

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

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

[1] 1

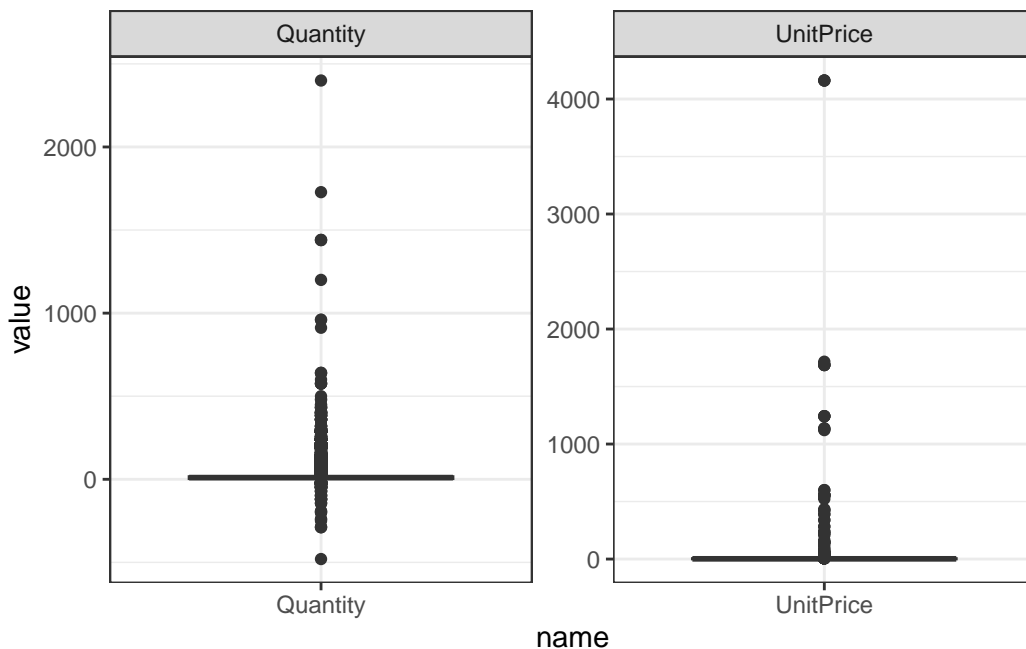
3.2 1-2

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

• , CustomerID

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

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



Box Plot

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

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

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	-	4.00	10.00	16.00	2400.00	
					480					
UnitPrice	0	1	4.61	48.1	0	1.25	1.95	3.75	4161.06	

```
db_1c %>% select(ID, Quantity, UnitPrice) %>% skim() %>%  
  filter(skim_type %in% c("numeric"))
```

Table 3.6: Data summary

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

Group variables

None

Variable type: numeric

skim_variablen_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, DBSCAN

-
- 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 .

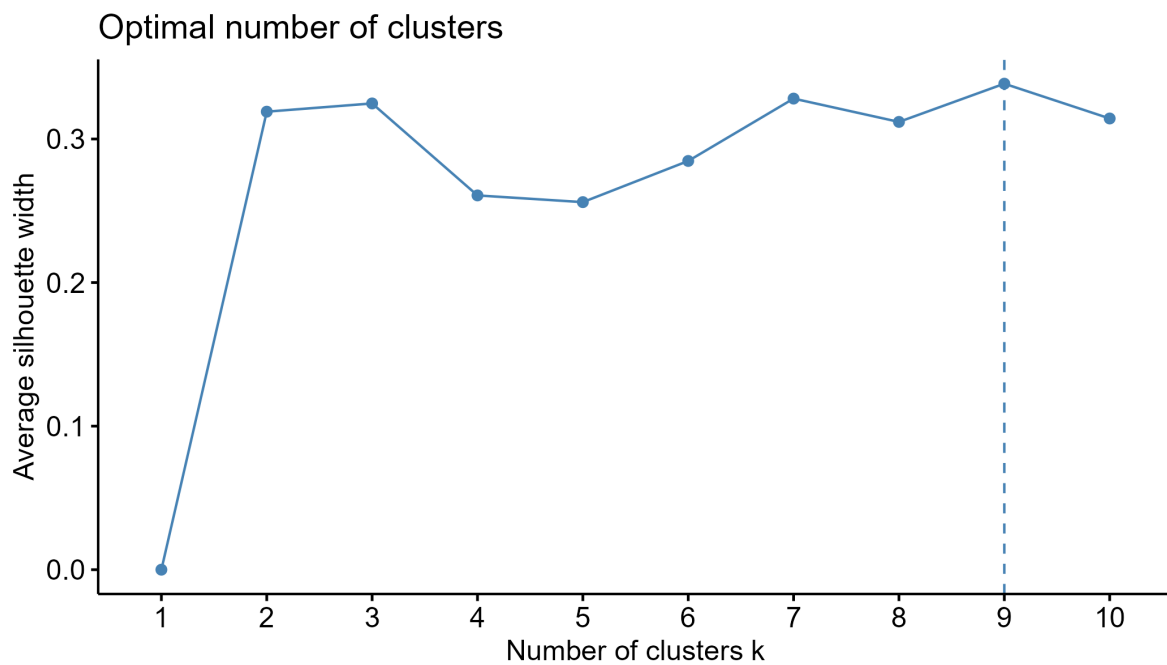
```

pacman::p_load(factoextra)

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

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

```



4 2

4.1 2-1

```
1      .  
3      :  
  
• 1      , EIRE  
• 2      , France  
• 3      Netherlands
```

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

	Quantity	UnitPrice	Country_EIRE	Country_France	Country_Germany
1	1.8662197	-0.7177269	0.1950424	0.2533159	0.2828876
2	-0.8472372	1.3414492	0.2566716	0.2183184	0.2527826
3	-0.1517417	-0.4490393	0.1779445	0.2770334	0.2891599

	Country_Netherlands	Country_Portugal	Country_Spain	Country_Switzerland
1	0.04022614	0.04587954	0.05783866	0.07675582
2	0.02105404	0.04224219	0.08958026	0.05310447
3	0.01989816	0.05105186	0.07483586	0.04696503

4.2 2-2

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

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

4.3 2-3

CustomerID 12413 .

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

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

3 , CustomerId 12413 . 3 21790, 22460, 22697

```
tb_freq <- data.table(
  cbind(db_1d, cluster = km$cluster))[cluster == 3][, .(N = .N / uniqueN(CustomerID)), 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
21790	7.666667	NA
22460	5.000000	NA
22697	4.000000	NA
22229	4.000000	NA
21448	4.000000	NA
22694	4.000000	NA
22698	4.000000	NA
21181	3.000000	NA
84949	3.000000	NA
21943	3.000000	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 .

```
#
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)) / margin_of_error^2
sample_size <- ceiling(sample_size) #

print(sample_size)
```

[1] 271

6 4

	month	1월	2월	3월	4월	5월	6월	7월	8월	9월
1 9	USD/oz	12.14	42.6	34.4	35.29	30.96	57.12	37.84	42.49	31.38

6.1 4-1

3 .

```
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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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 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': 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 'mbsToSbcs': dot
substituted for <9d>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b2>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <a9>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': 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>

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conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b0>

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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 'mbsToSbcs': dot
substituted for <8f>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <89>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b7>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <a0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': 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 'mbsToSbcs': dot
substituted for <8f>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <89>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b7>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <a0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <80>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <94>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

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

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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>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a1>

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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>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b0>

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

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

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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>

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

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

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

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

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <b2>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <a9>

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conversion failure on ' ' in 'mbcsToSbcs': dot substituted for <9d>

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

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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.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 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <9d>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b2>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a9>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <9d>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <eb>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <8f>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <99>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ed>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <8f>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <89>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b7>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': 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 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': 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 'mbsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': 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 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': 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 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

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

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conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <9d>

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conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <80>

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conversion failure on ' (3)' in 'mbcsToSbcs': dot
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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
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Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
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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
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conversion failure on ' (3)' in 'mbcsToSbcs': dot
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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 'mbsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': 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 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': 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 'mbsToSbcs': dot
substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <b2>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <a9>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': dot
substituted for <9d>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbsToSbcs': 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 'mbscsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <92>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': dot
substituted for <80>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbscsToSbcs': 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, :
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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, :
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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>

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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, :
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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, :
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substituted for <80>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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substituted for <ea>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b2>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <a9>

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

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b4>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <8f>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <99>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <8f>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <89>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b7>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <a0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b0>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <92>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b8>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <a4>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <80>

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

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <80>

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b0>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <80>

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b2>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <a9>

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

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b4>

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <8f>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <99>

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <8f>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <89>

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b7>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <a0>

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b0>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <92>

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

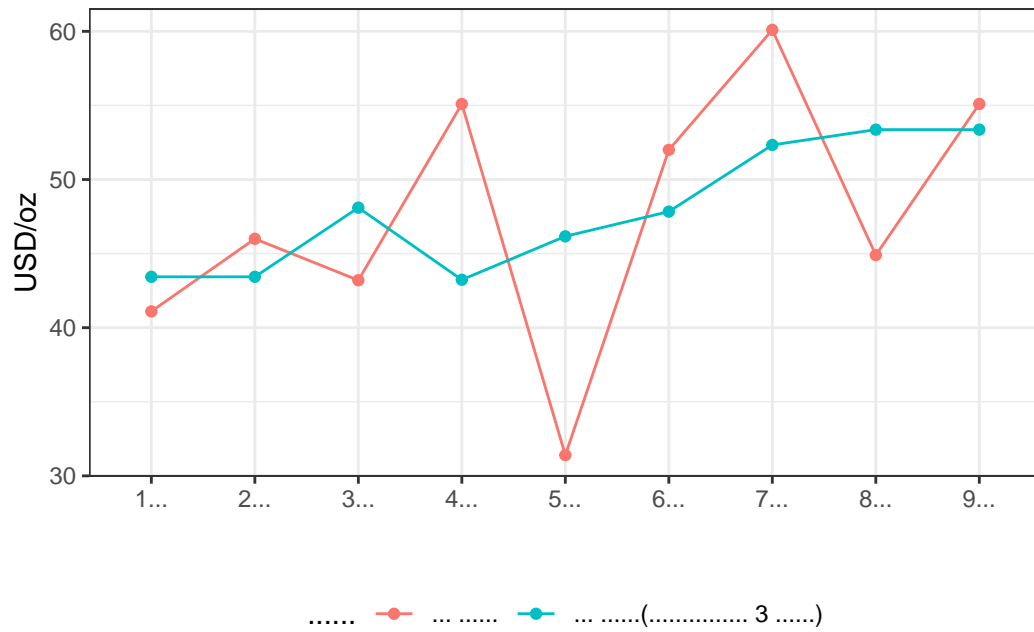
Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b8>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <b0>

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

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <a4>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on ' (3)' in 'mbcsToSbcs': dot
substituted for <80>



6.2 4-2

1 9 ?

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

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

[1] 34.06

7 5

A, B, C W , .

```
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% .

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

: 7.95

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

: 0.02

0.02 95% 0.05 . , W .

8 6

A 16 9 problem4.csv . ,

9 6-1

10 6-2

, t-test .

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

```
t.test(db_6a[gender %in% "male"]$pressure, db_6a[!(gender %in% "male")]$pressure, var.equal = TRUE)
```

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	91514.4947896086	0.00	50265.0081797001	36995.00172676	0.00			

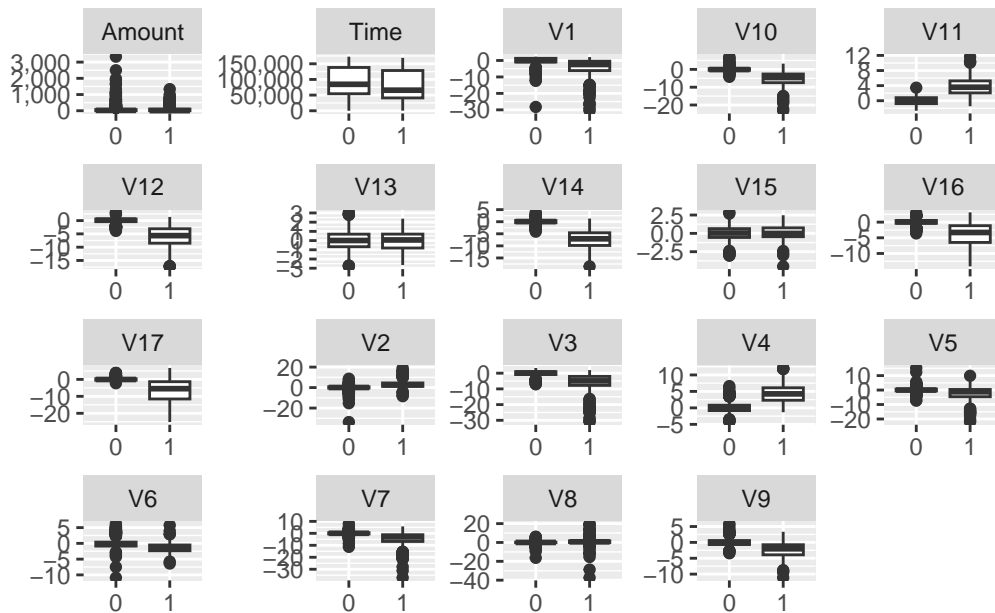
skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100	hist
V1	0	1	-0.76	3.62	-	-1.30	-0.30	1.25	2.32	
V2	0	1	0.54	2.66	-	-0.44	0.23	1.11	19.17	
V3	0	1	-1.15	3.91	-	-1.61	-0.23	0.81	3.32	
V4	0	1	0.78	2.35	-	-0.61	0.33	1.34	12.11	
V5	0	1	-0.41	2.70	-	-0.84	-0.07	0.68	15.28	
V6	0	1	-0.28	1.51	-	-1.02	-0.38	0.30	6.27	
V7	0	1	-0.85	3.40	-	-0.81	-0.08	0.46	8.12	
V8	0	1	0.15	2.47	-	-0.22	0.07	0.45	20.01	
V9	0	1	-0.45	1.66	-	-1.04	-0.21	0.45	5.92	
V10	0	1	-0.90	2.90	-	-0.88	-0.23	0.29	7.14	
V11	0	1	0.66	1.96	-	-0.60	0.28	1.21	11.67	
V12	0	1	-1.01	3.00	-	-0.97	-0.01	0.51	3.11	
V13	0	1	0.01	1.01	-	-0.69	0.02	0.70	3.07	
V14	0	1	-1.17	3.23	-	-0.95	-0.10	0.42	3.89	
V15	0	1	0.02	0.91	-	-0.55	0.05	0.66	2.87	
V16	0	1	-0.63	2.27	-	-0.70	-0.06	0.46	3.14	
V17	0	1	-1.07	3.81	-	-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)

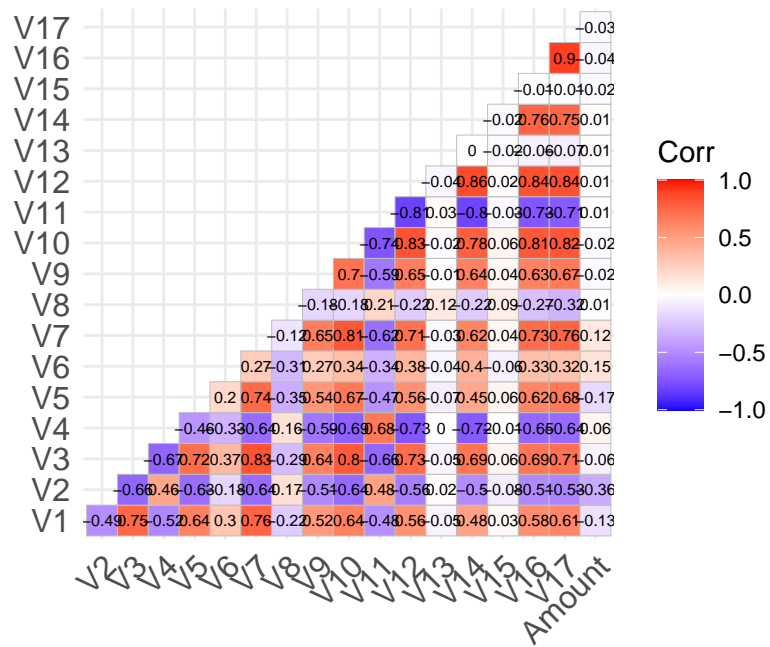
- Class 1 16.7%

```
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 .

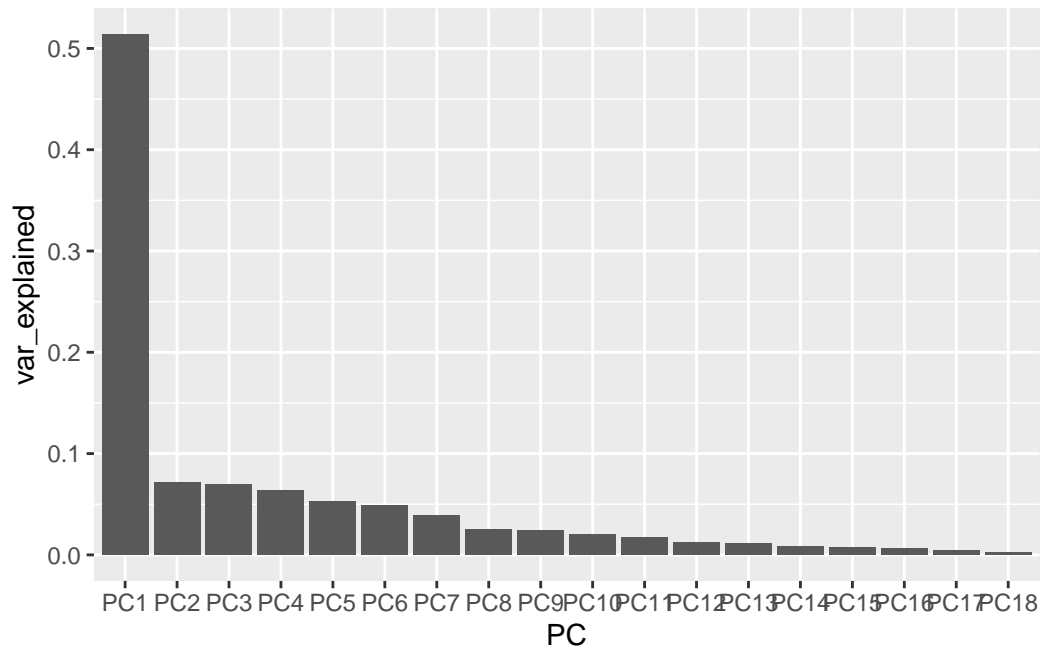
PCA scree .

```
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      .

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

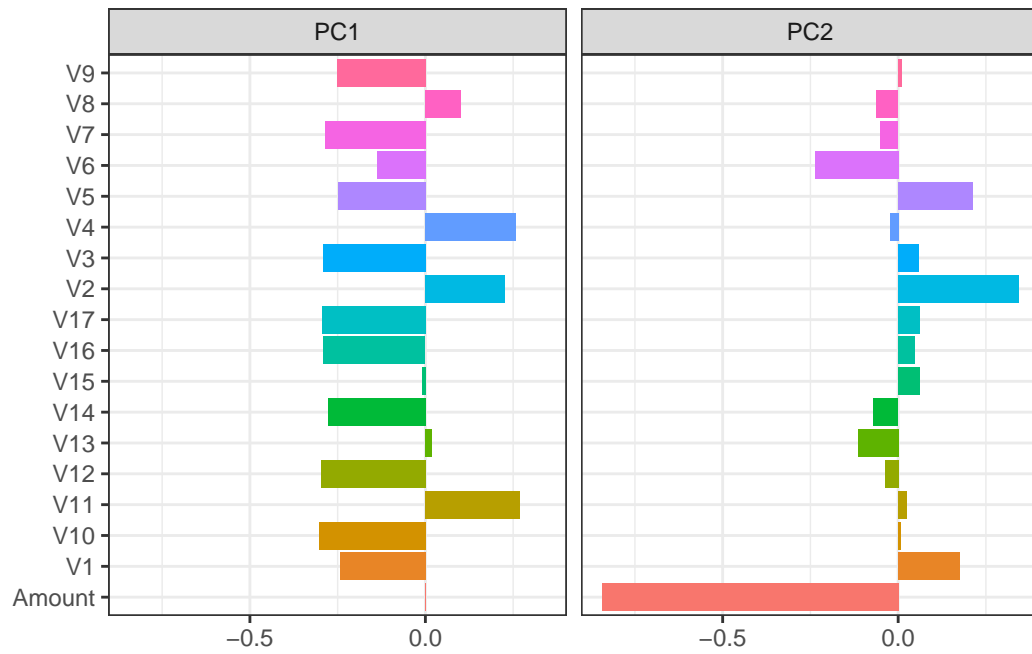
prep_rec <- prep(rec)

tidy_rec <- tidy(prepare_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

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

```
# Recipe
```

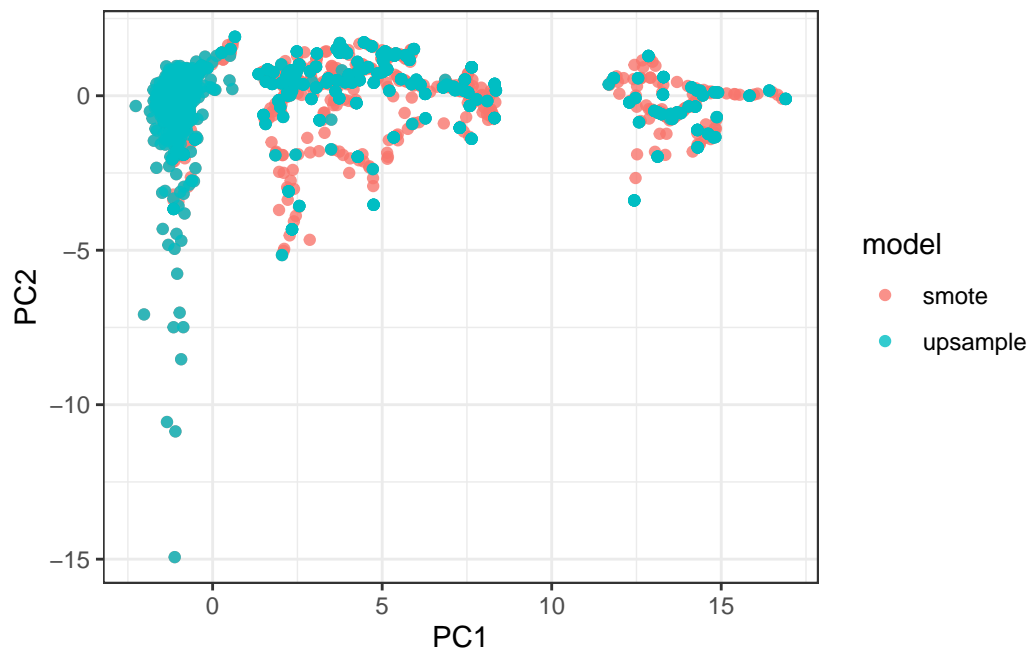
```
rec <- recipe(Class ~ ., data = db_1c) %>%  
  step_mutate(Class = as.factor(Class)) %>%  
  step_center(all_predictors(), -all_outcomes()) %>%  
  step_scale(all_predictors(), -all_outcomes()) %>%  
  step_pca(all_predictors(), -all_outcomes(), num_comp = 2) # 2
```



```
#
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.

```
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)

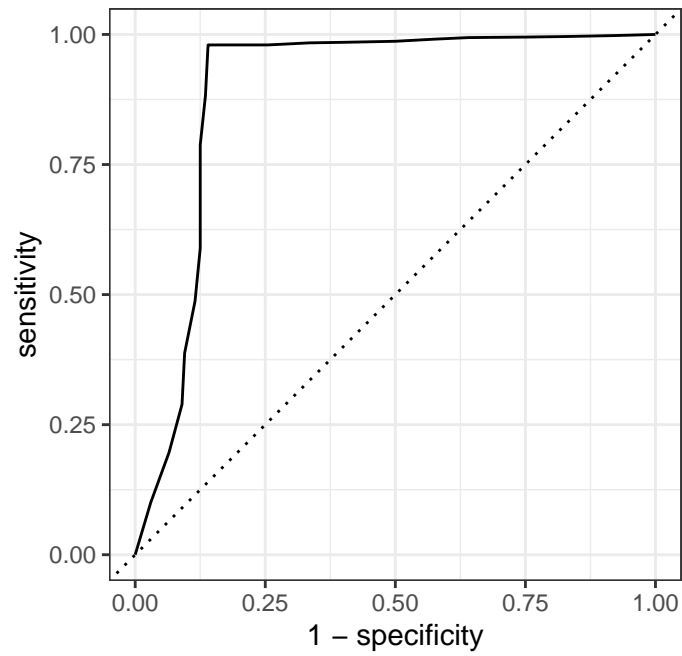
result_smote <- fit_resamples(
  wk_smote,
  resamples = cv,
  control = control_resamples(save_pred = TRUE))

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

```
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)
```

```

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

```

```

INFO [17:26:27.516] dataset has duplicated rows
INFO [17:26:27.534] Building Isolation Forest ...
INFO [17:26:27.557] done
INFO [17:26:27.557] Computing depth of terminal nodes ...
INFO [17:26:27.738] done
INFO [17:26:27.778] Completed growing isolation forest

```

```

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

```

```

#
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

```

```

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>.