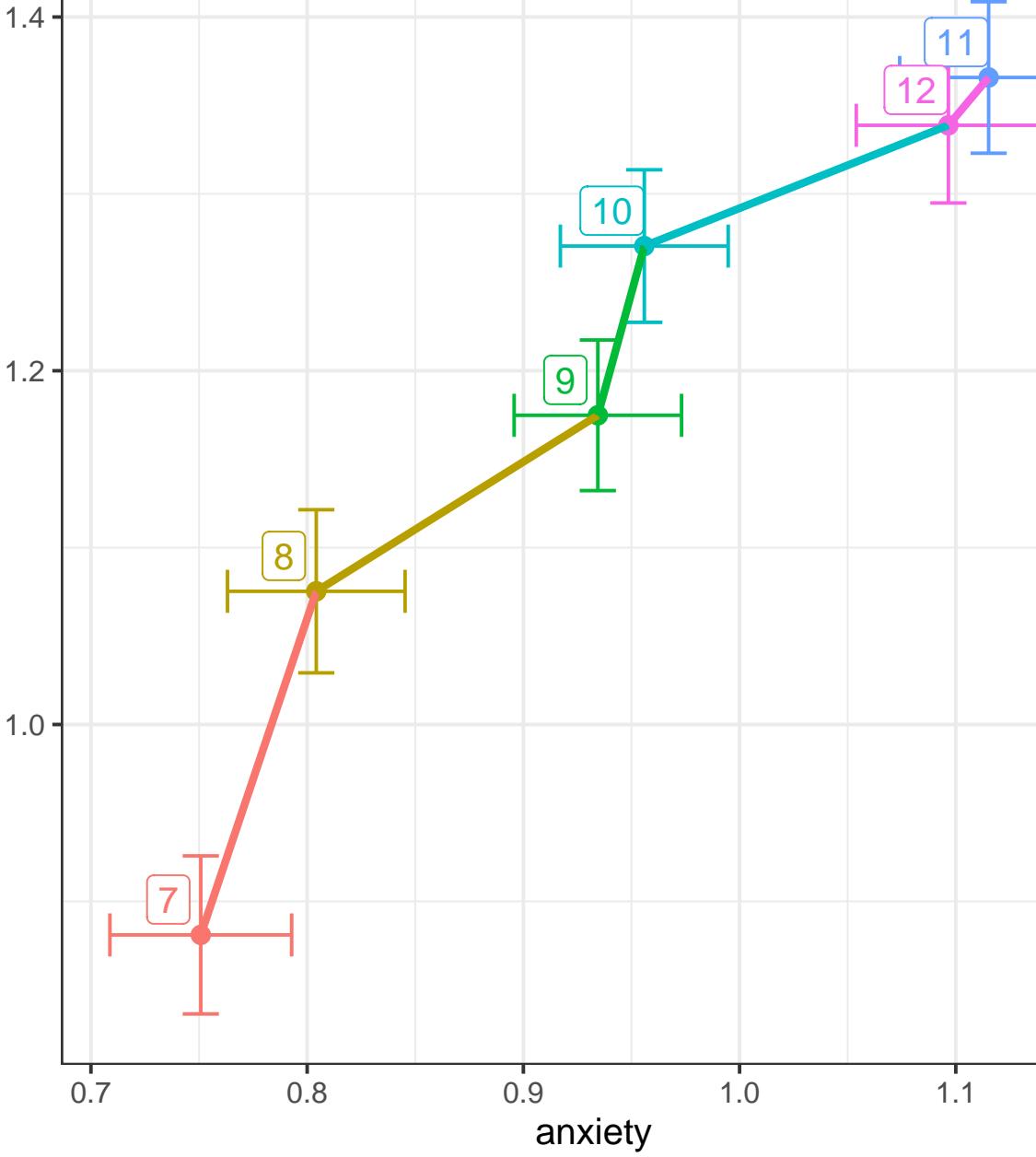
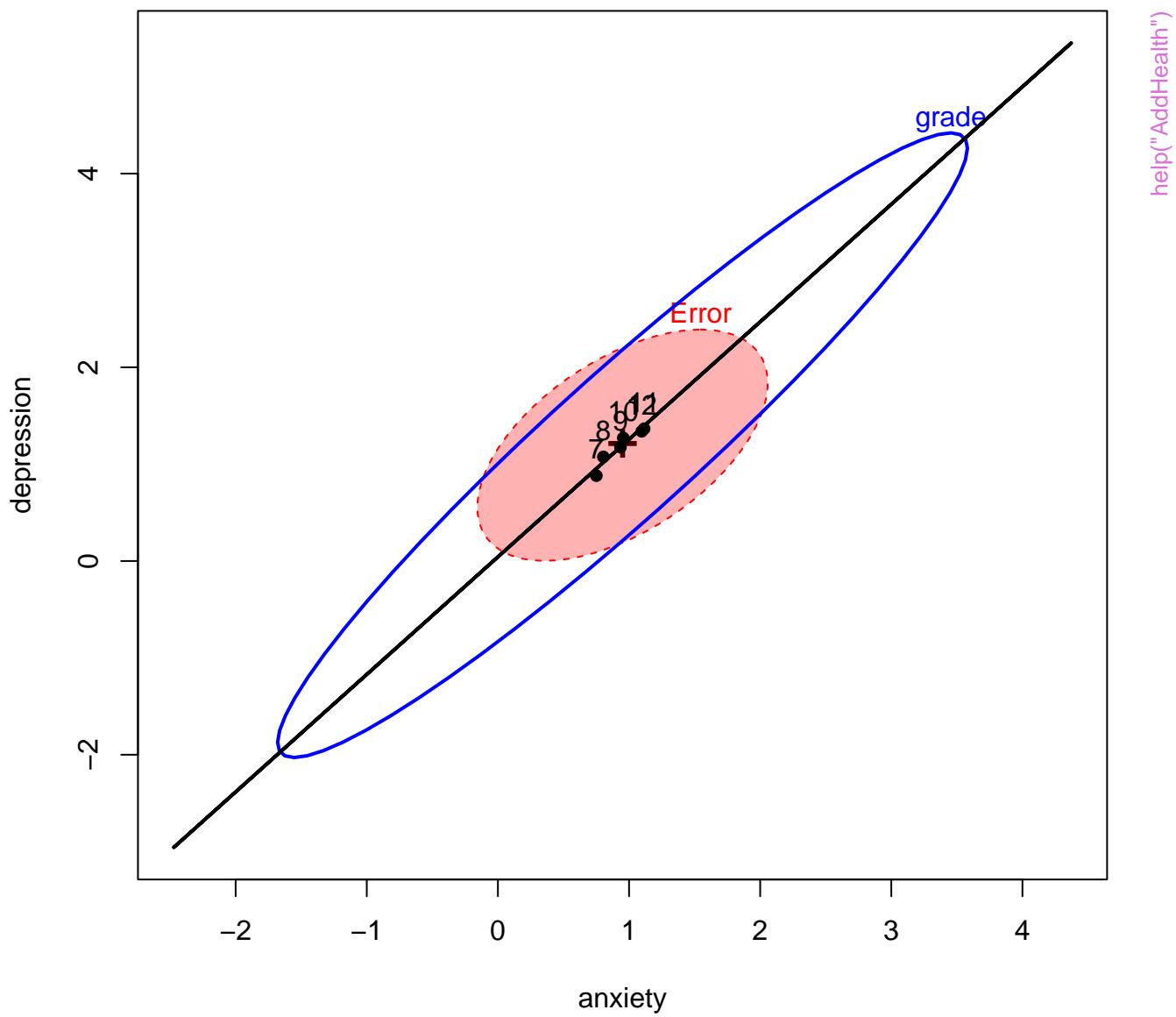


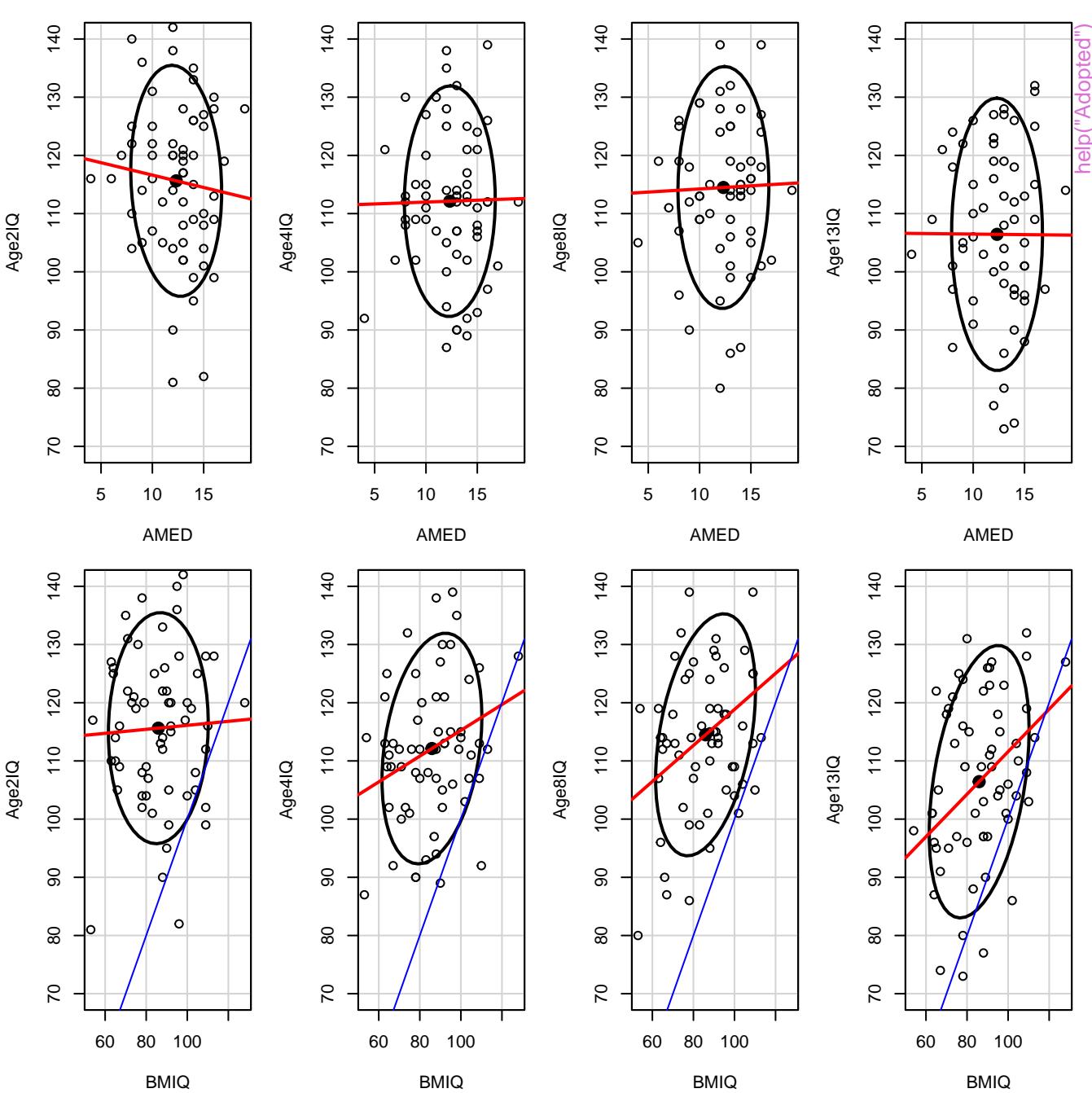
help("AddHealth")

depression

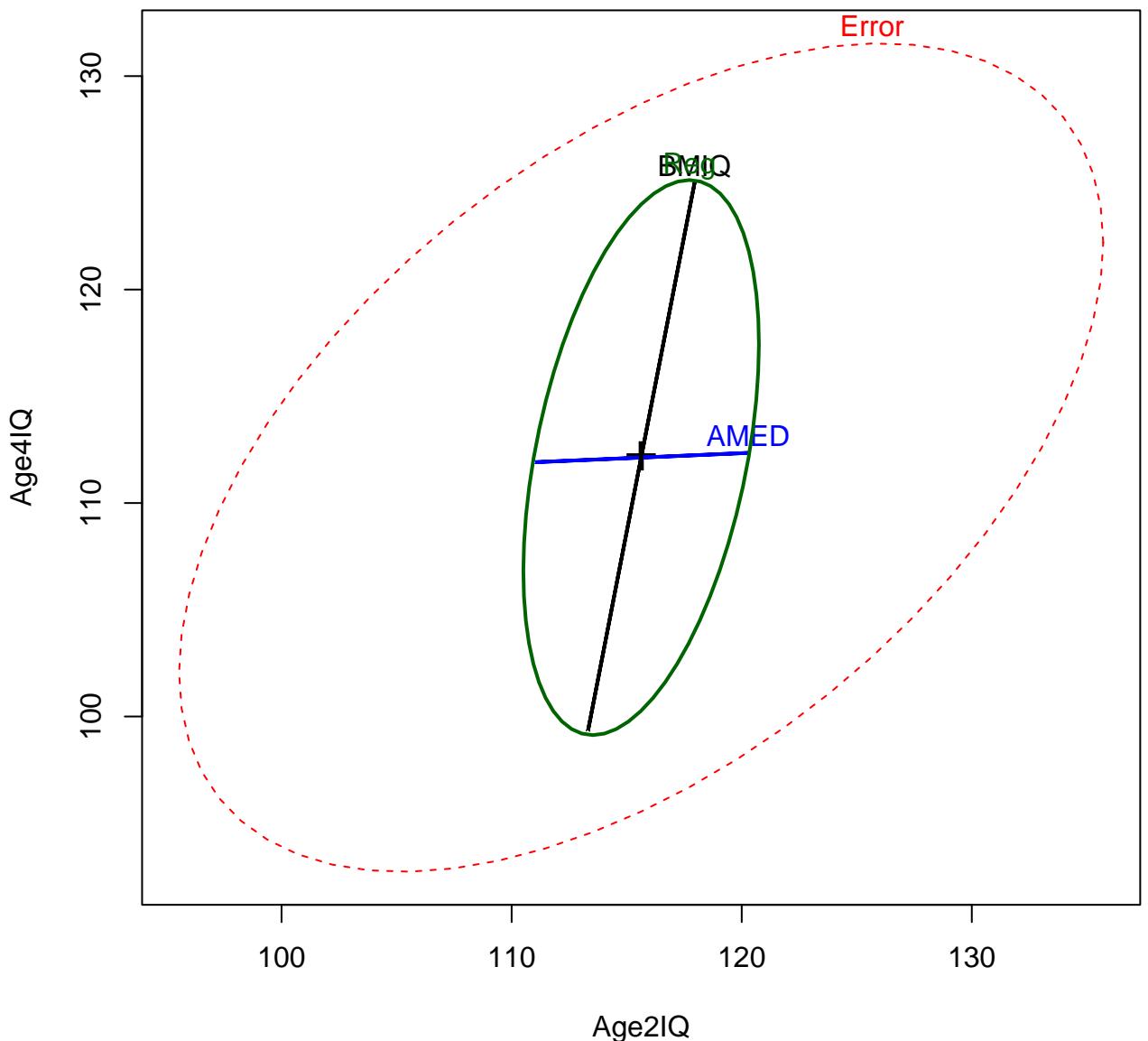
anxiety

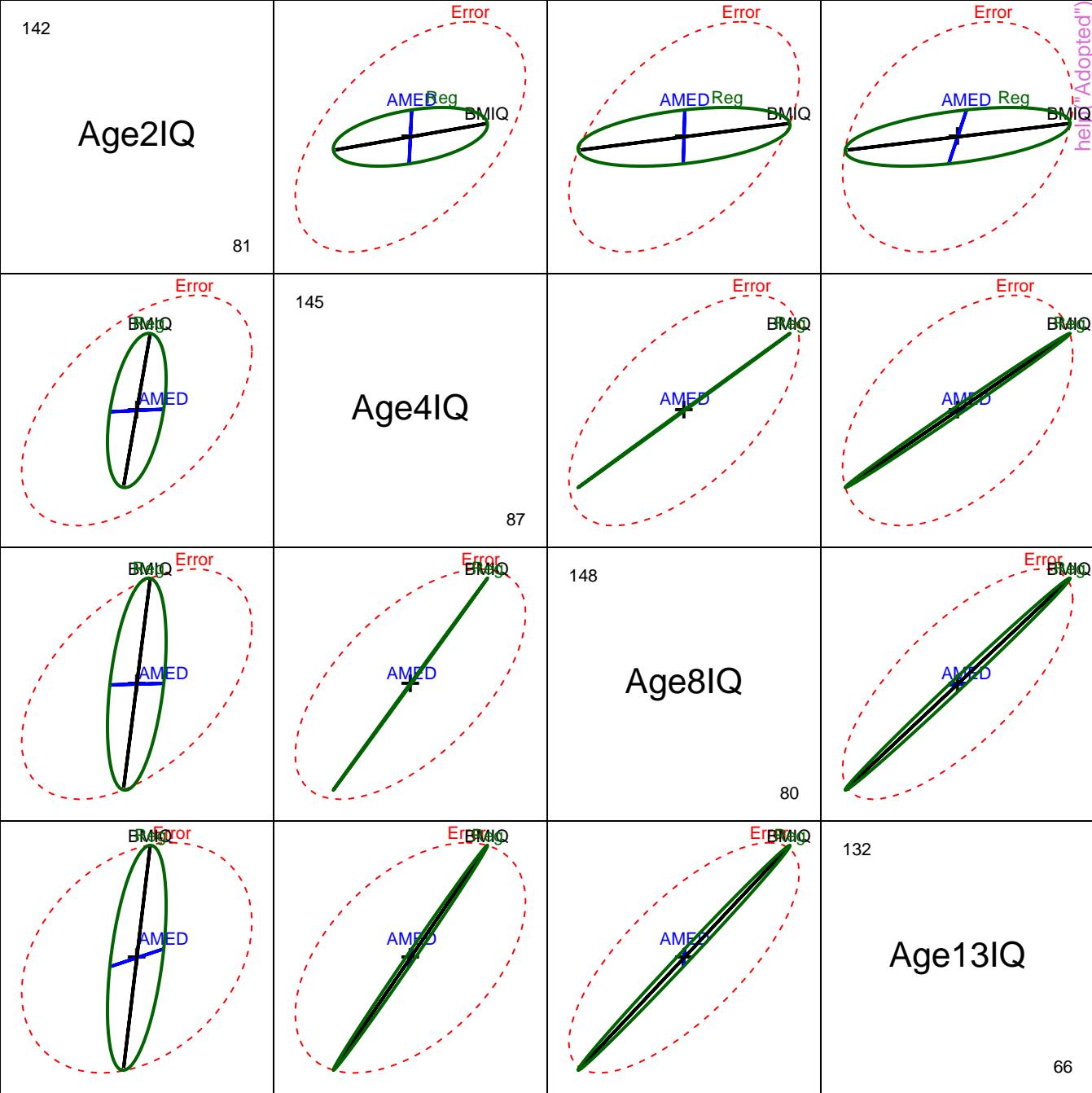


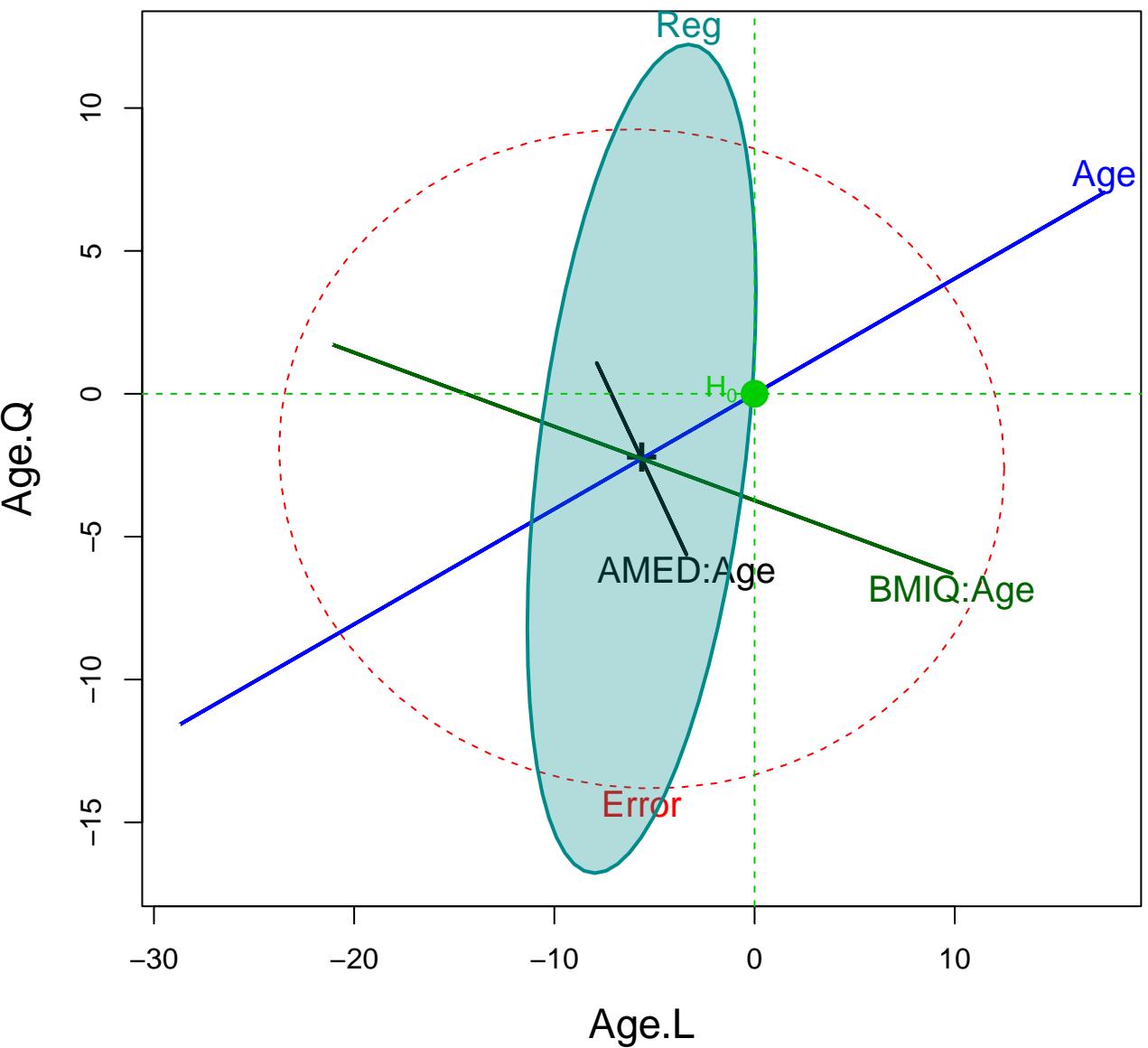




# IQ scores of adopted children: MMReg

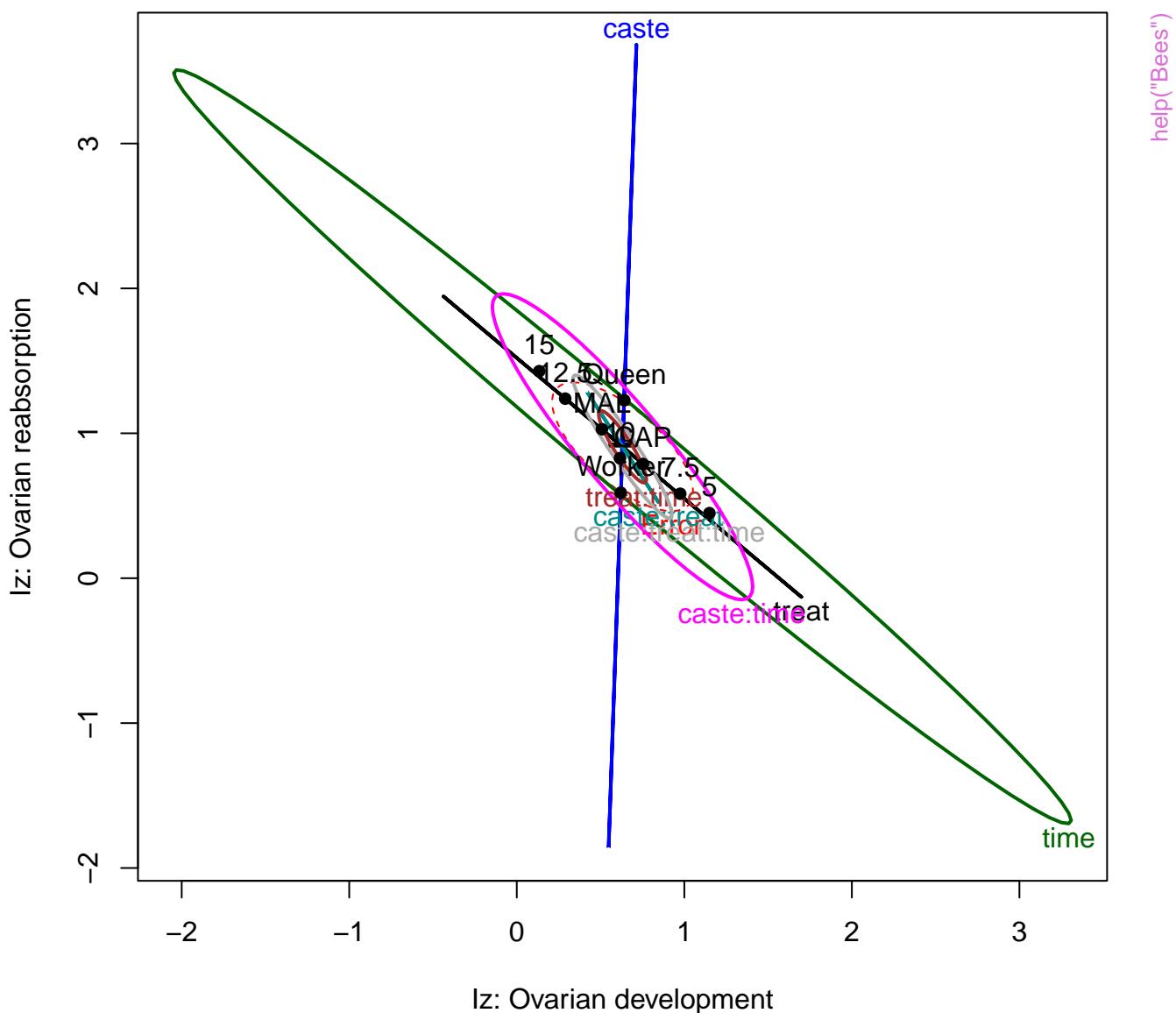




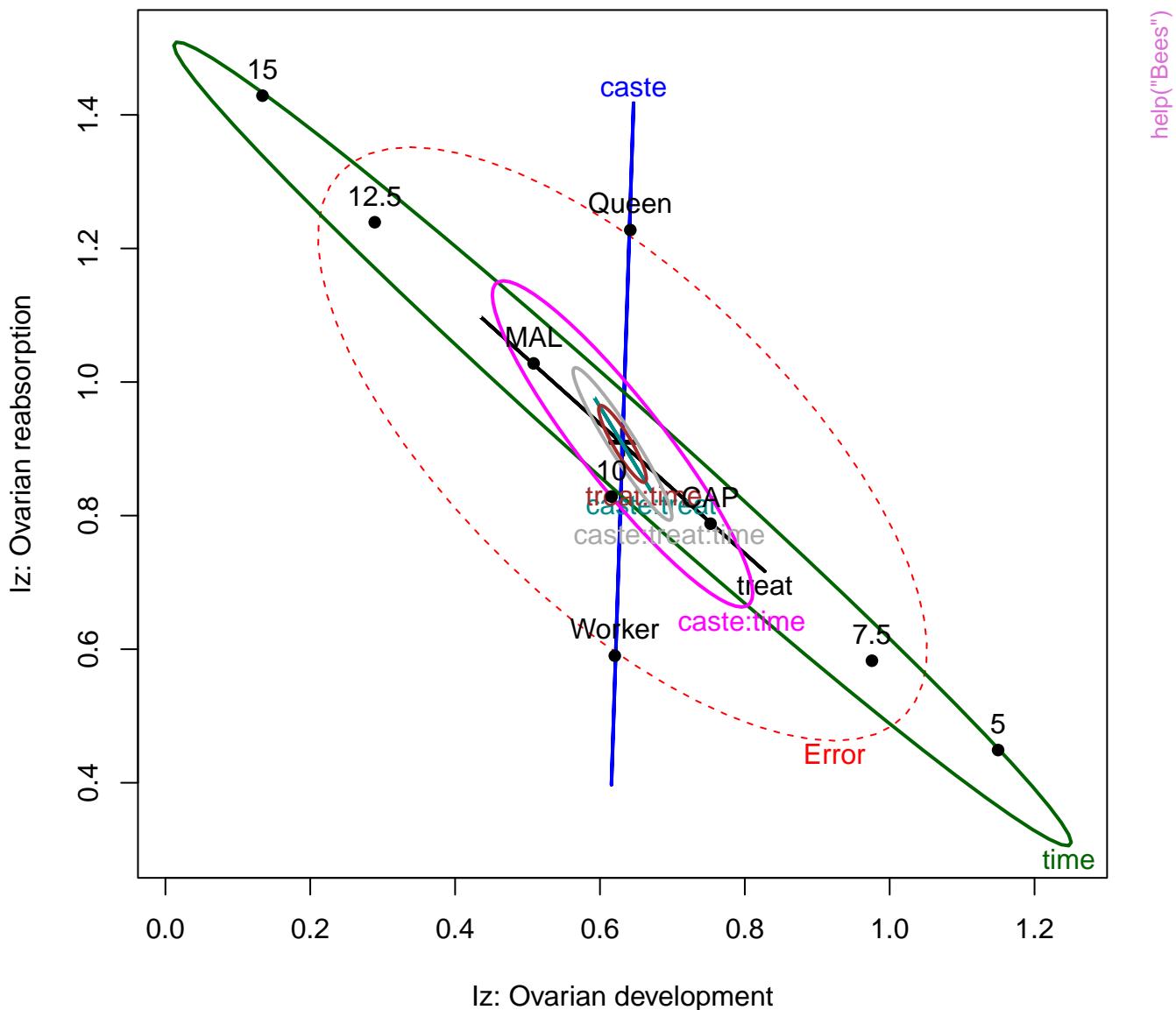


help("Adopted")

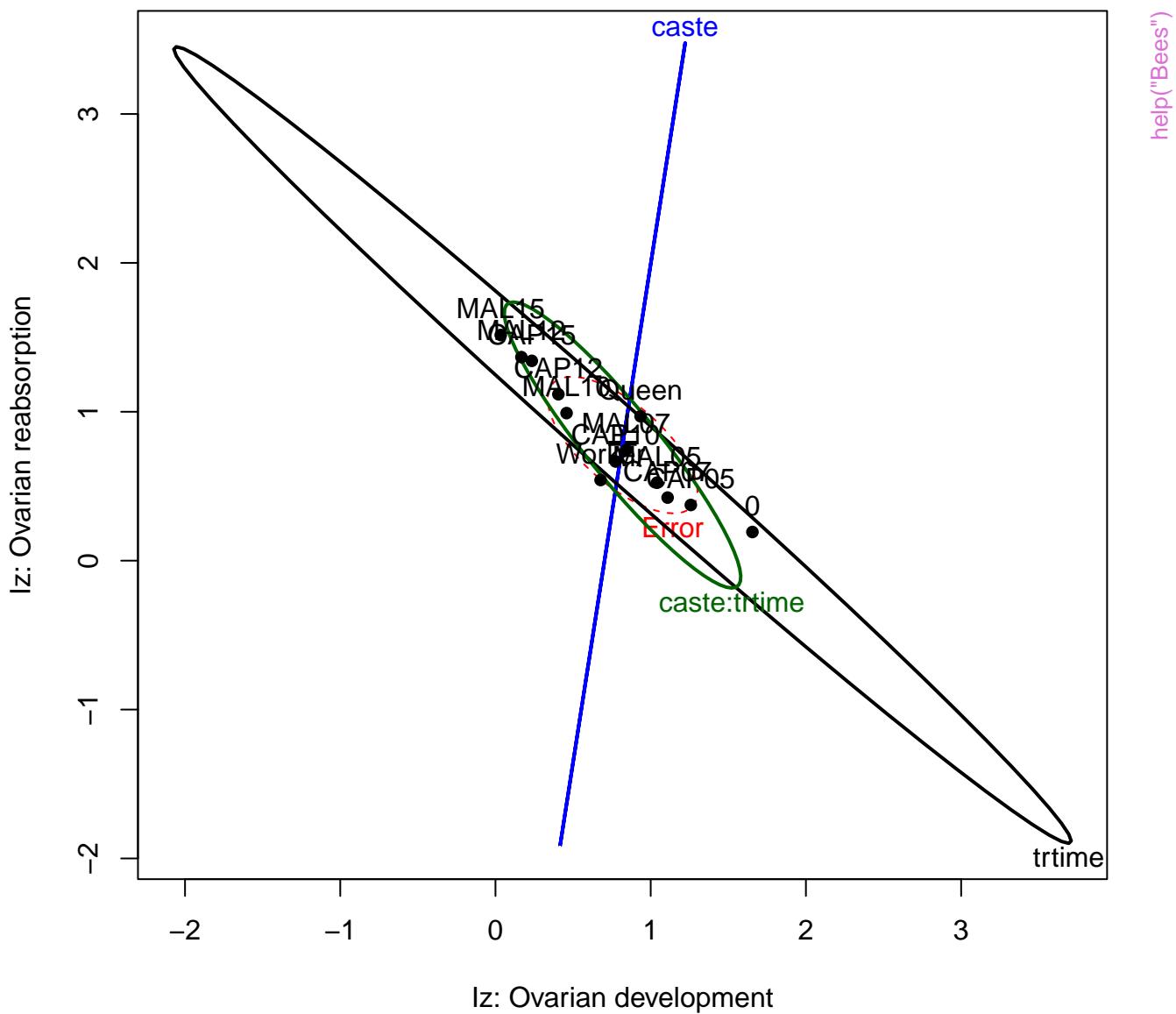
## Bees: ~caste\*treat\*time



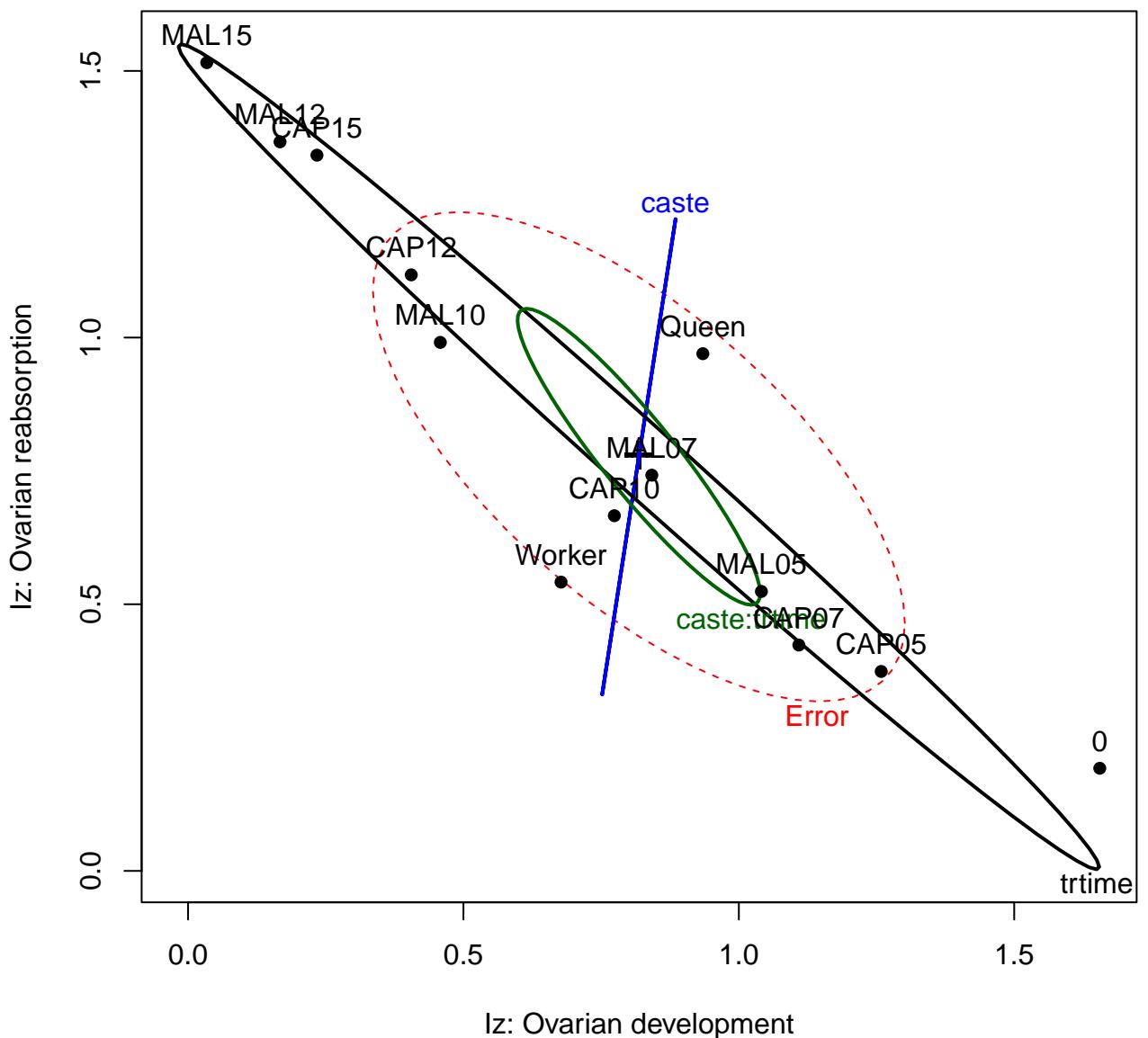
## Bees: ~caste\*treat\*time



# Bees: ~caste\*trtime

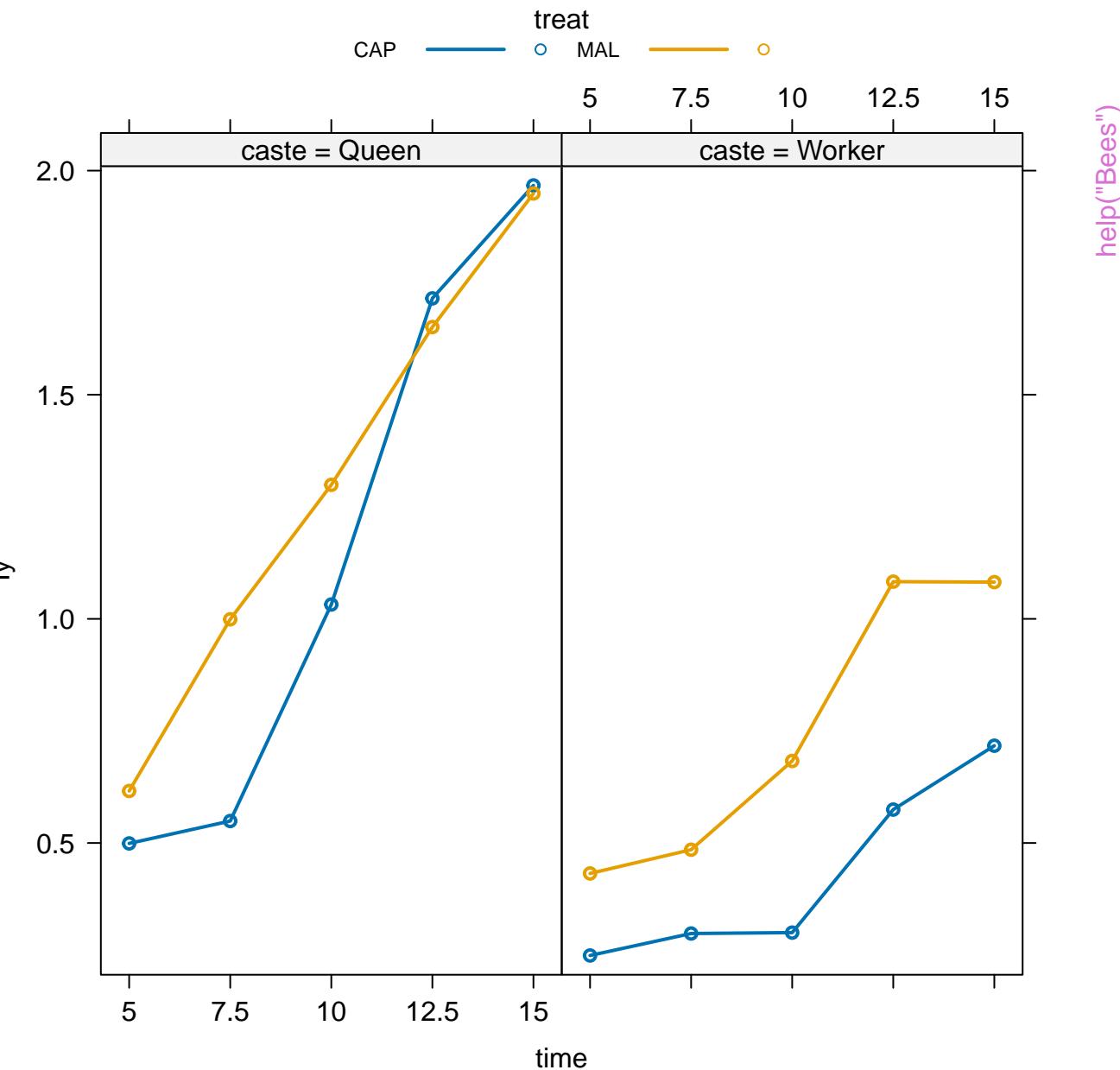


# Bees: ~caste\*trtime



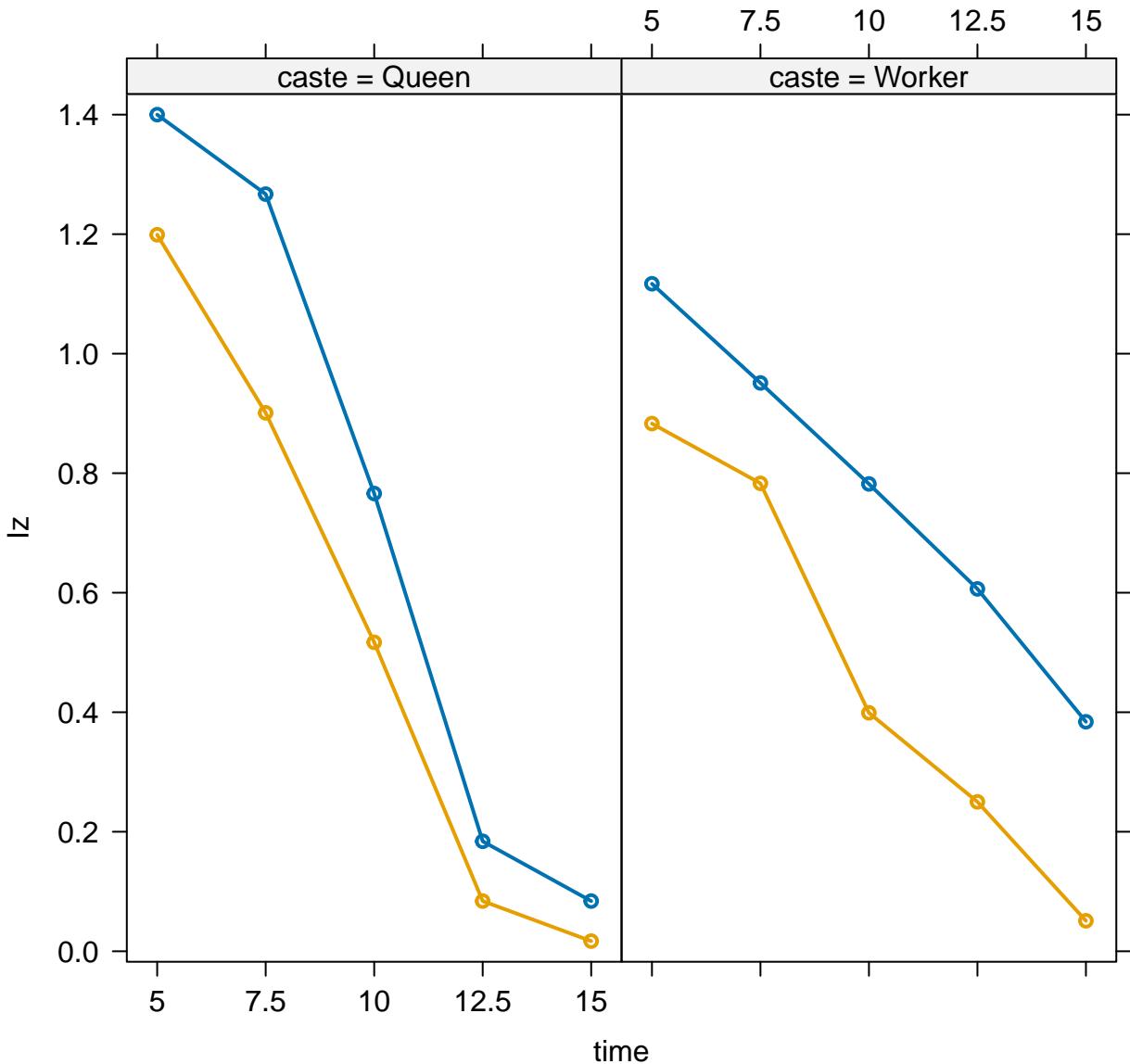
help("Bees")

# treat\*caste\*time effect plot



# treat\*caste\*time effect plot

treat  
CAP —○— MAL —○—

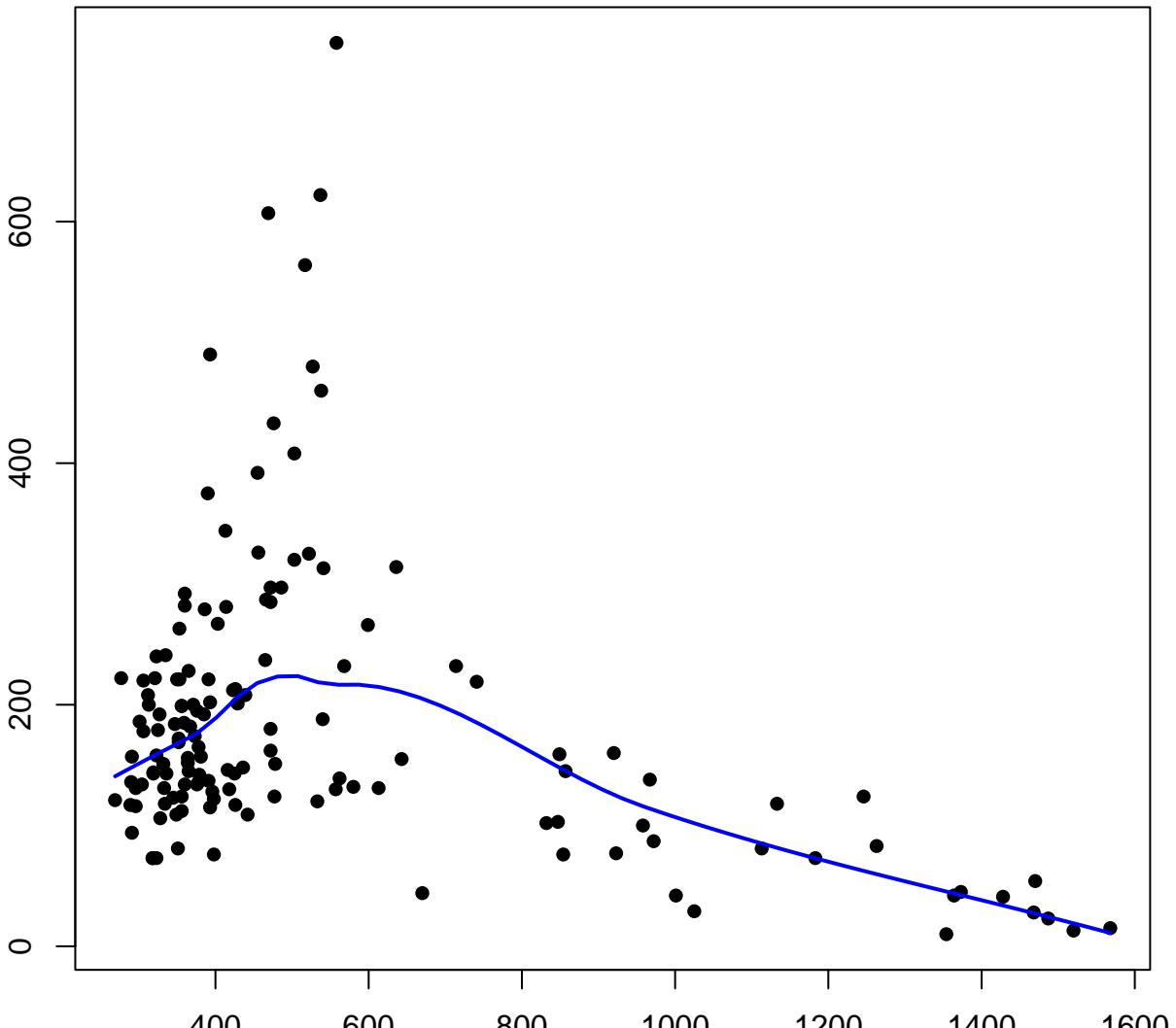


help("Bees")

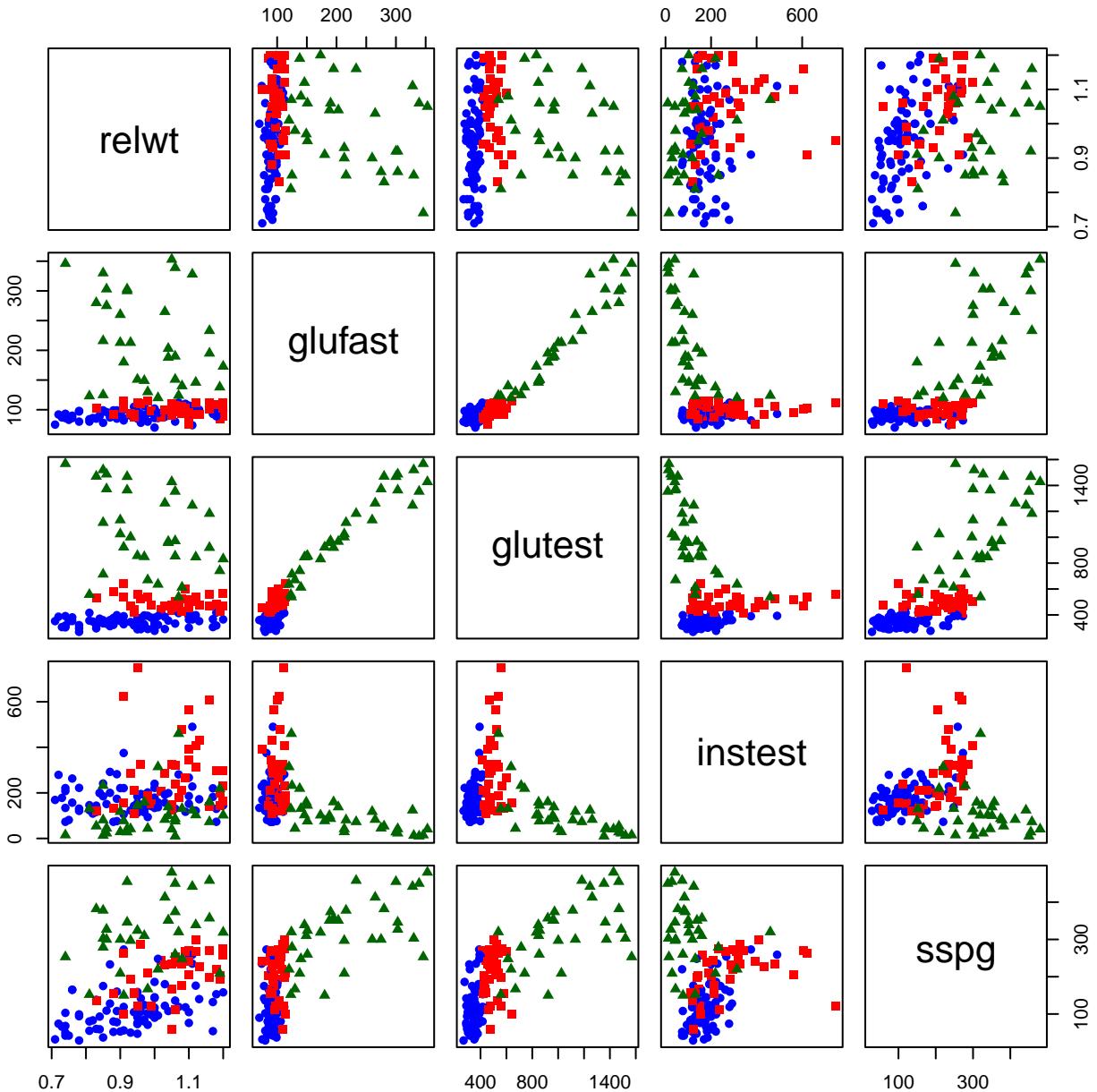
help("Diabetes")

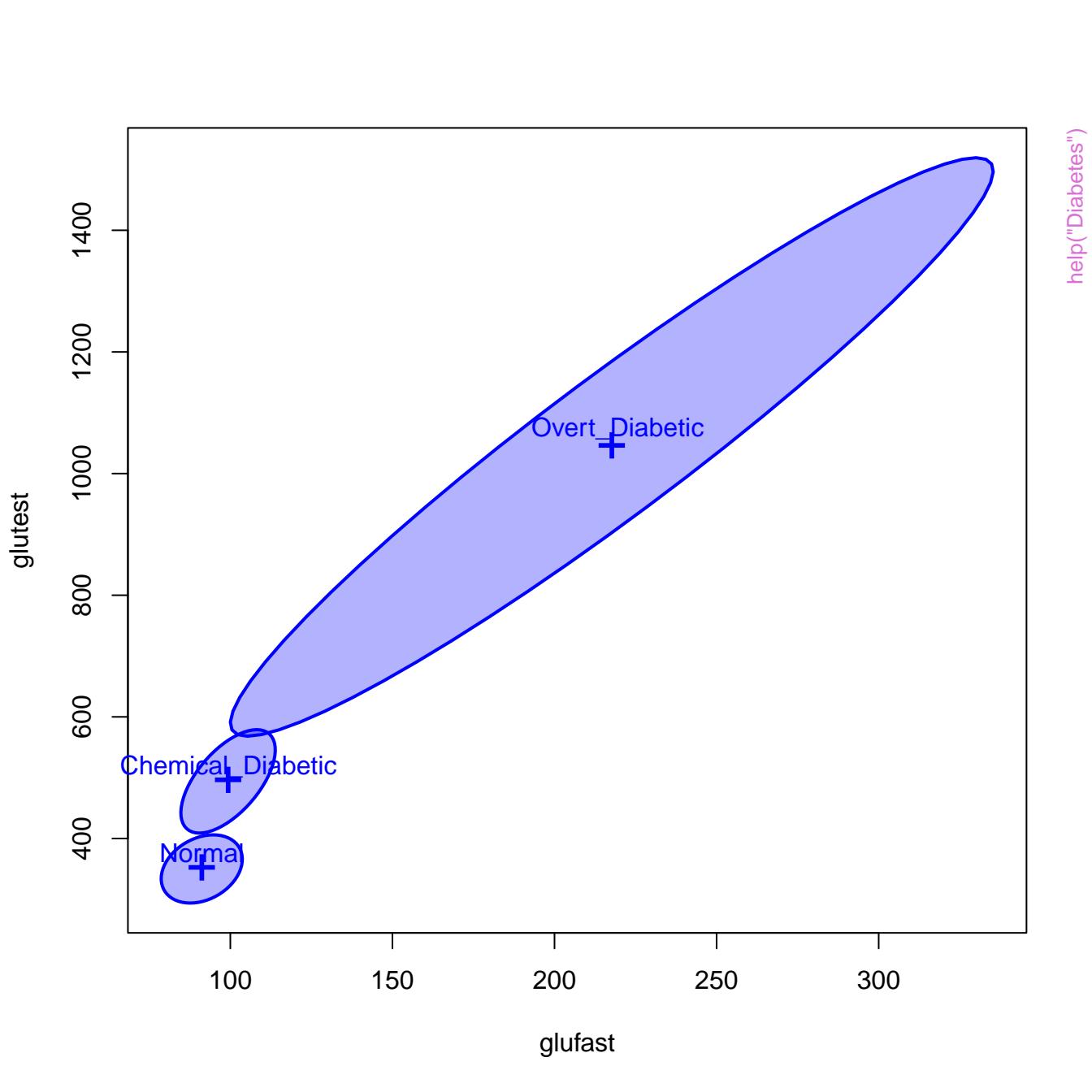
Insulin area (instest)

Glucose area (glutest)

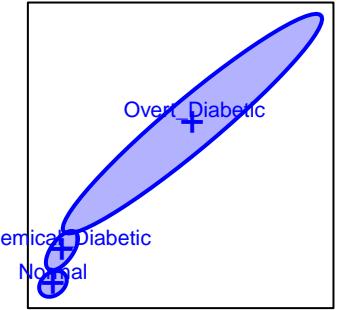
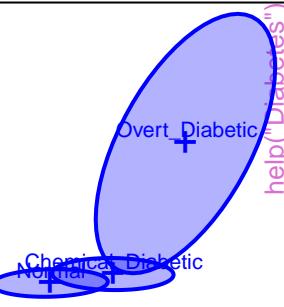
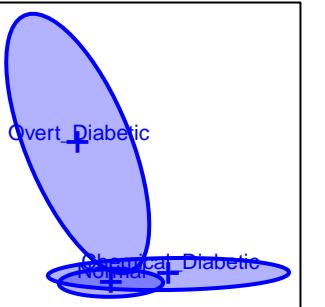
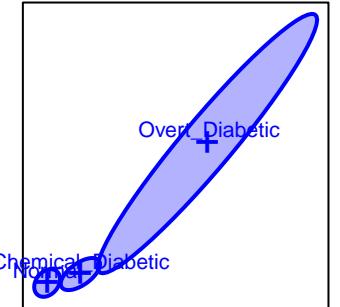


help("Diabetes")

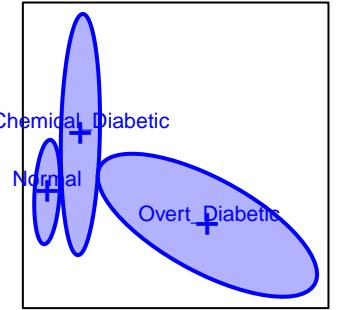
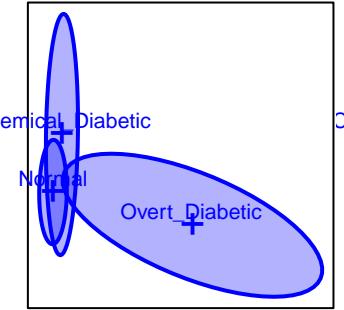
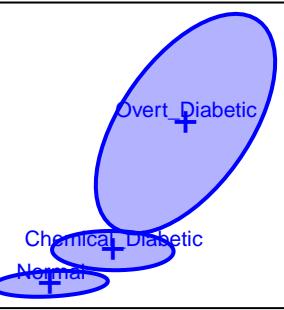
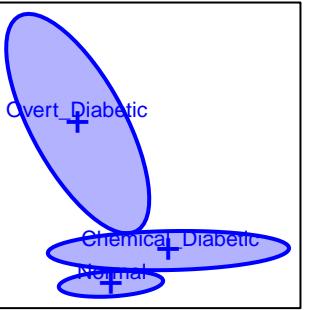




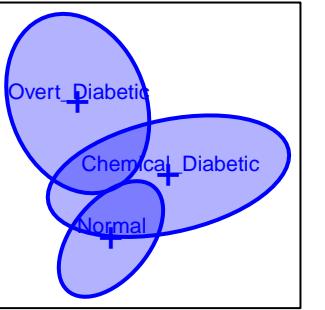
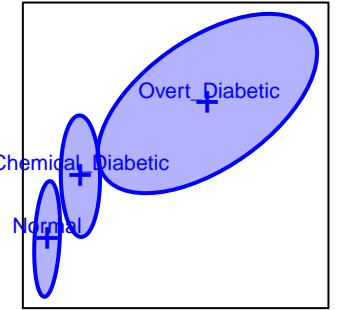
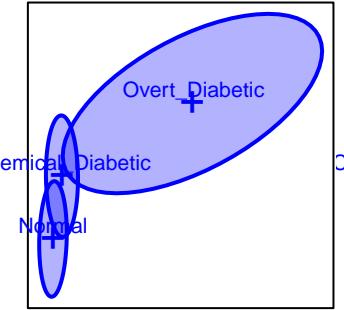
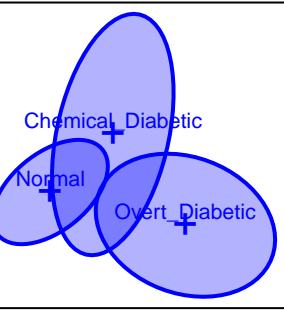
glufast



## glutest



# nstest



sspg

help("Diabetes")

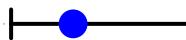
pooled



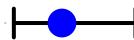
Overt\_Diabetic



Chemical\_Diabetic



Normal



28

30

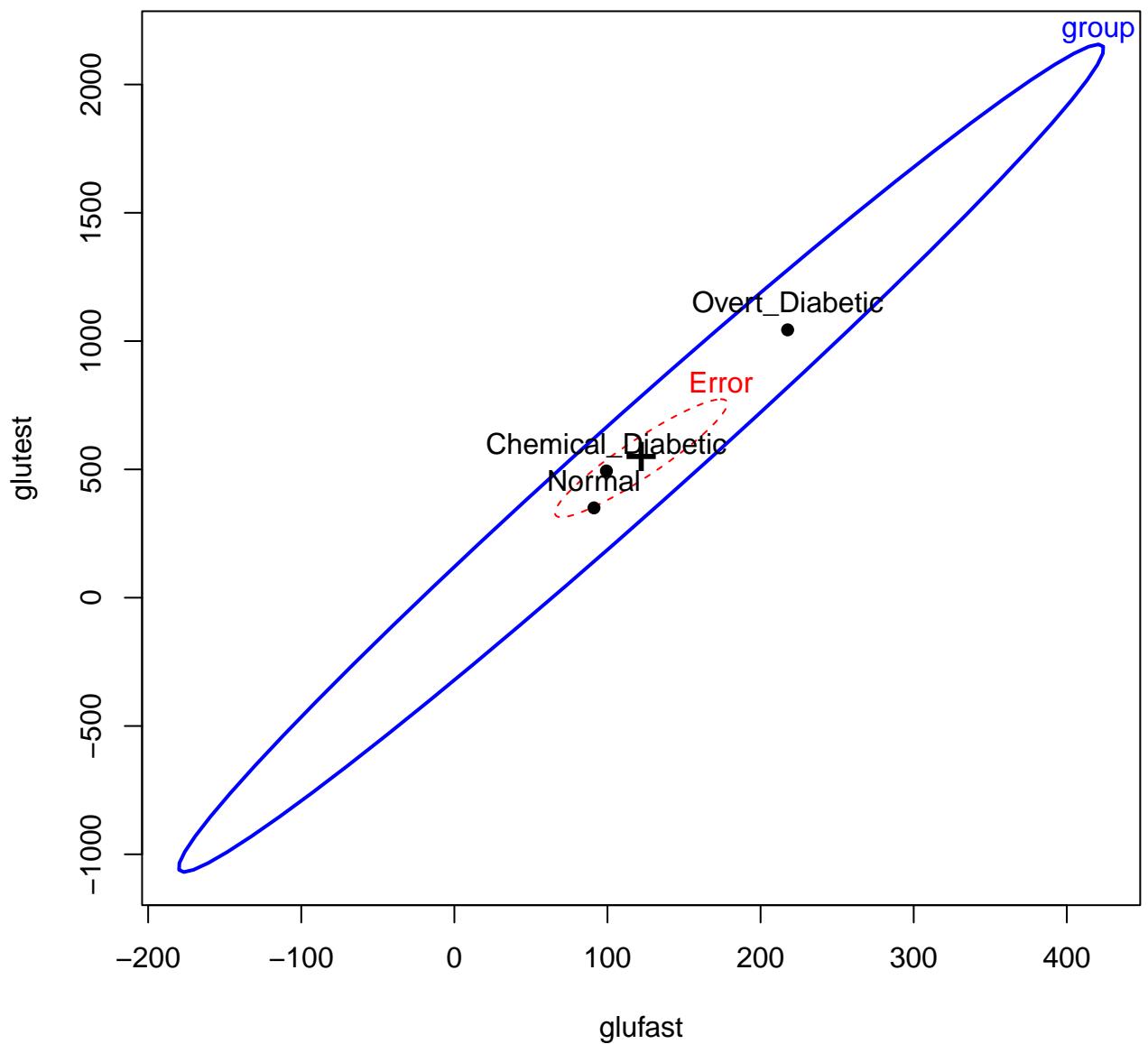
32

34

36

log determinant

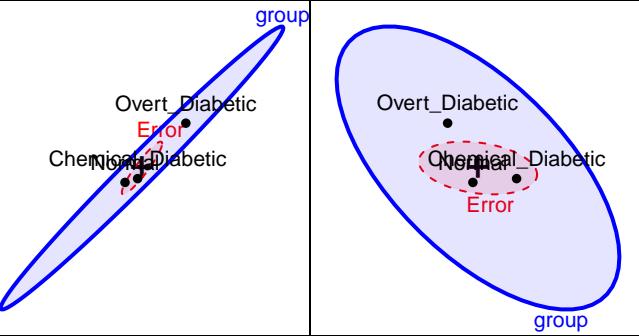
help("Diabetes")



353

glufast

70



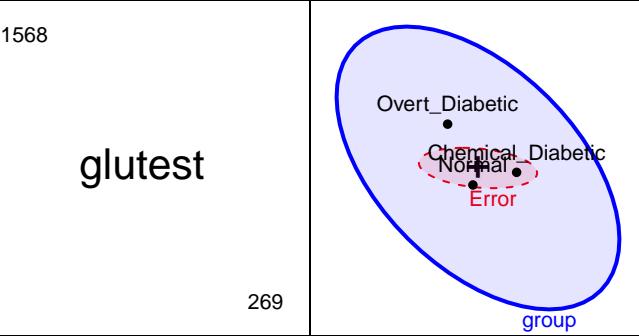
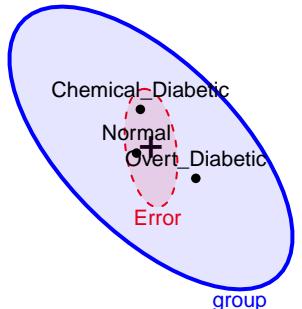
help("Diabetes")

Overt\_Diabetic  
Chemical\_Diabetic  
Normal  
Error

1568

glutest

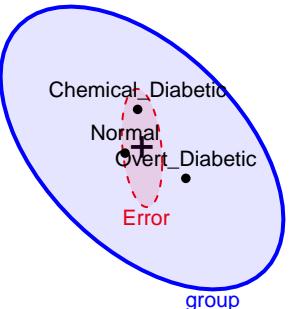
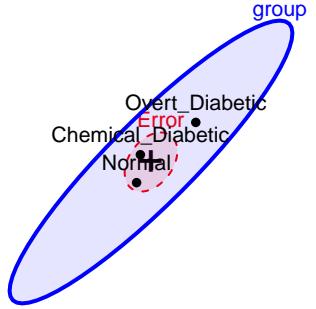
269

Overt\_Diabetic  
Chemical\_Diabetic  
Normal  
Error

748

inlest

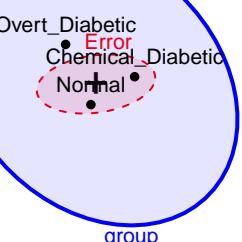
10

Chemical\_Diabetic  
Normal  
Overt\_Diabetic  
Error

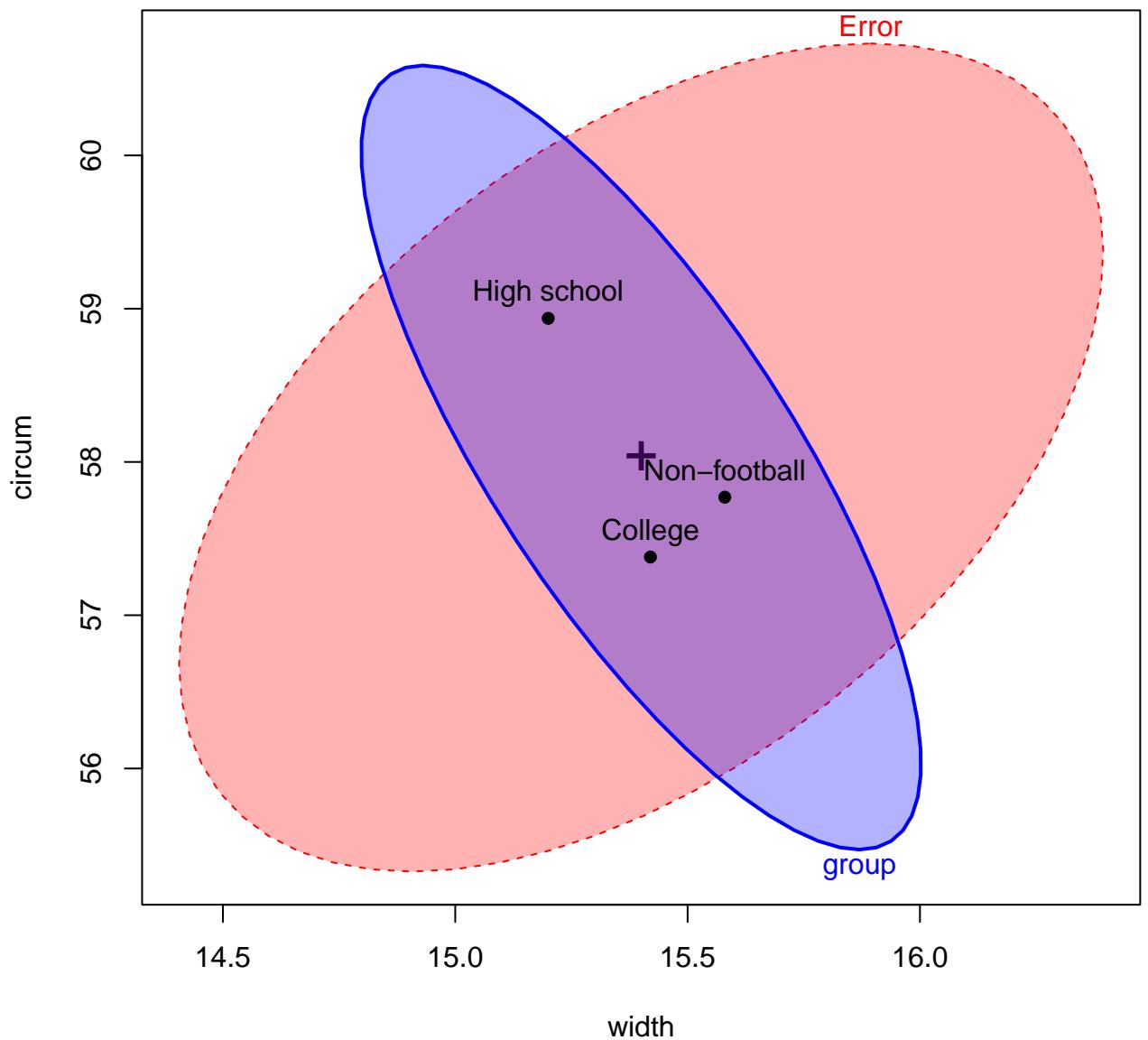
480

sspg

29

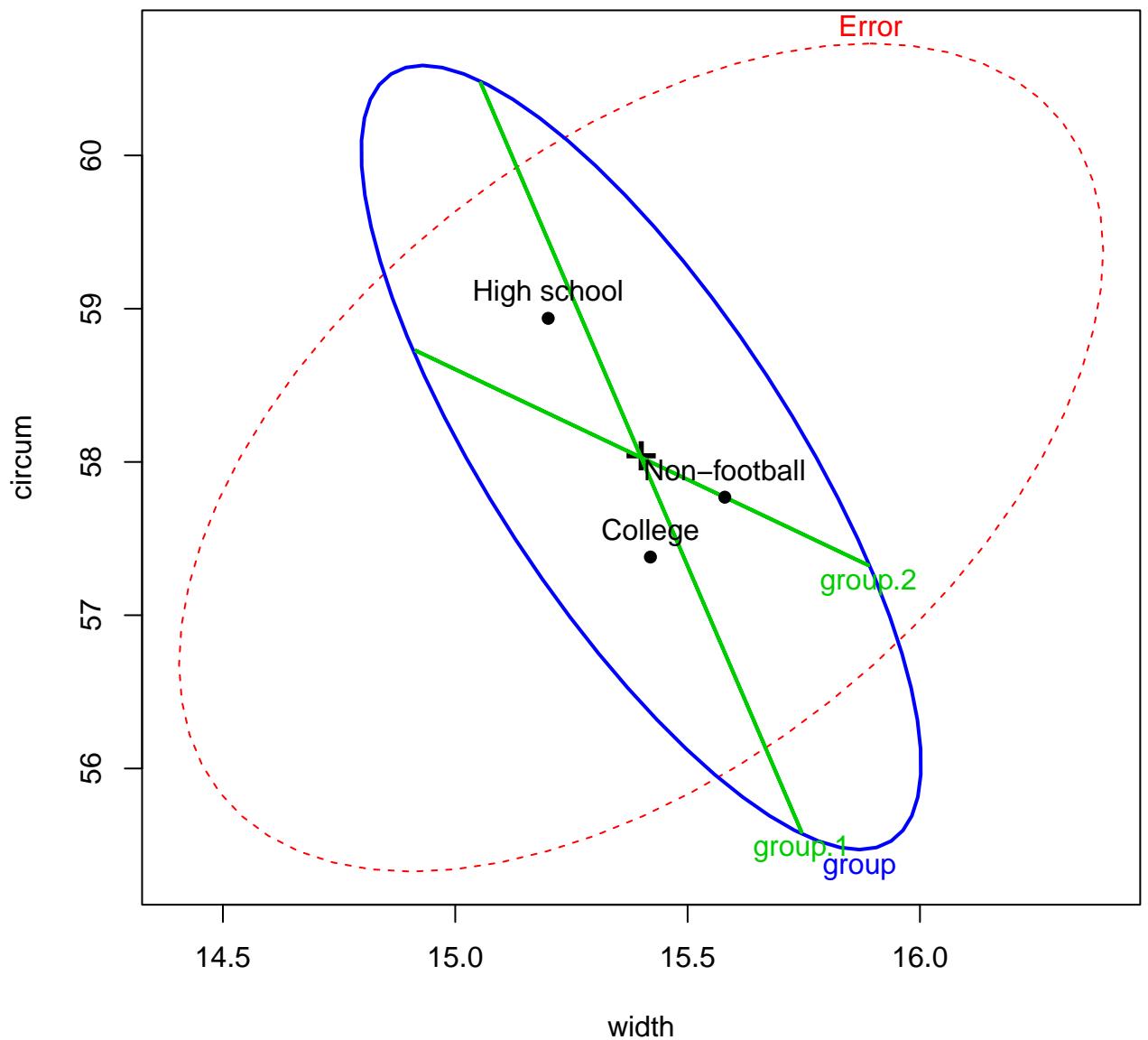


## HE plot for width and circumference

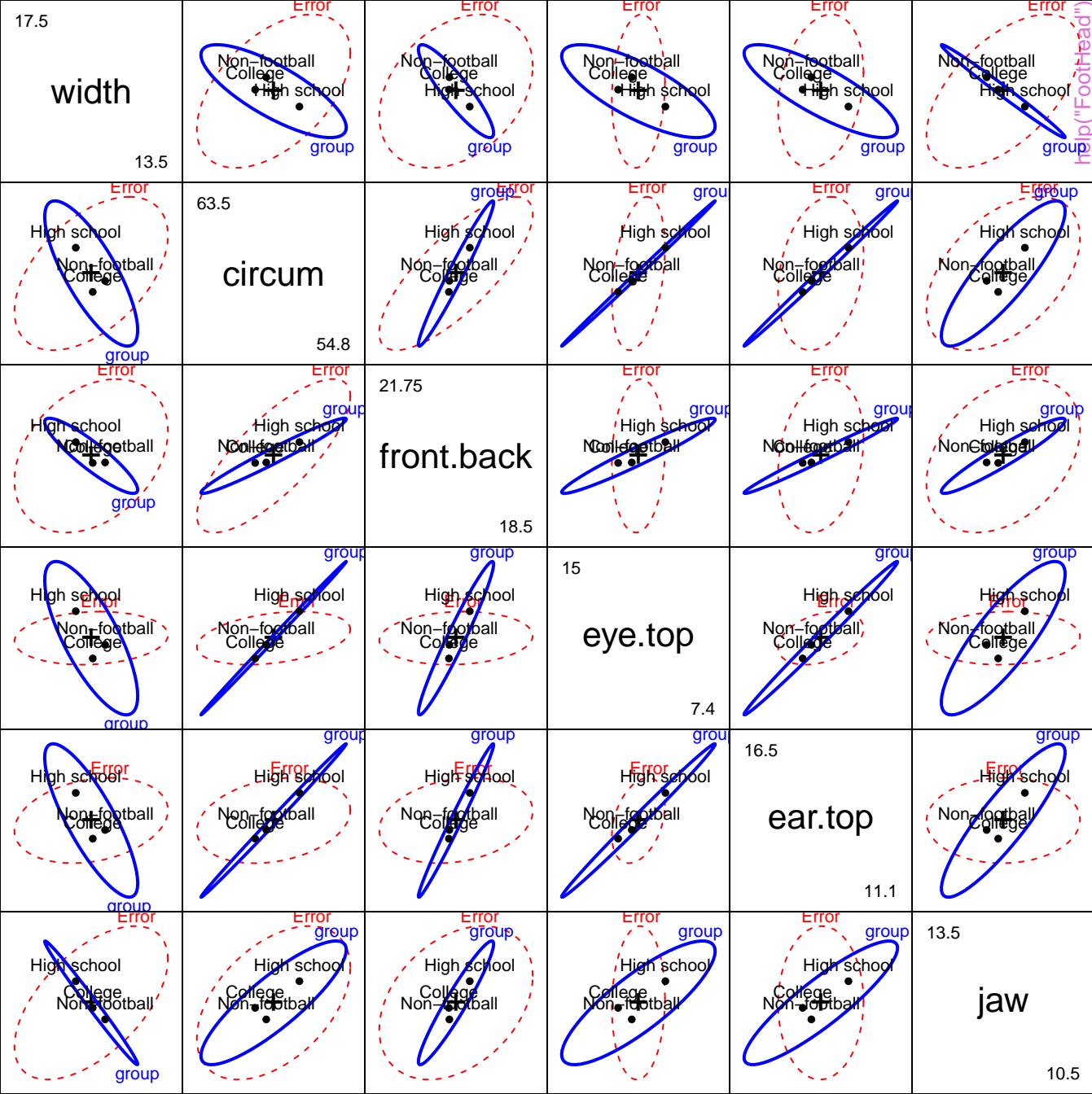


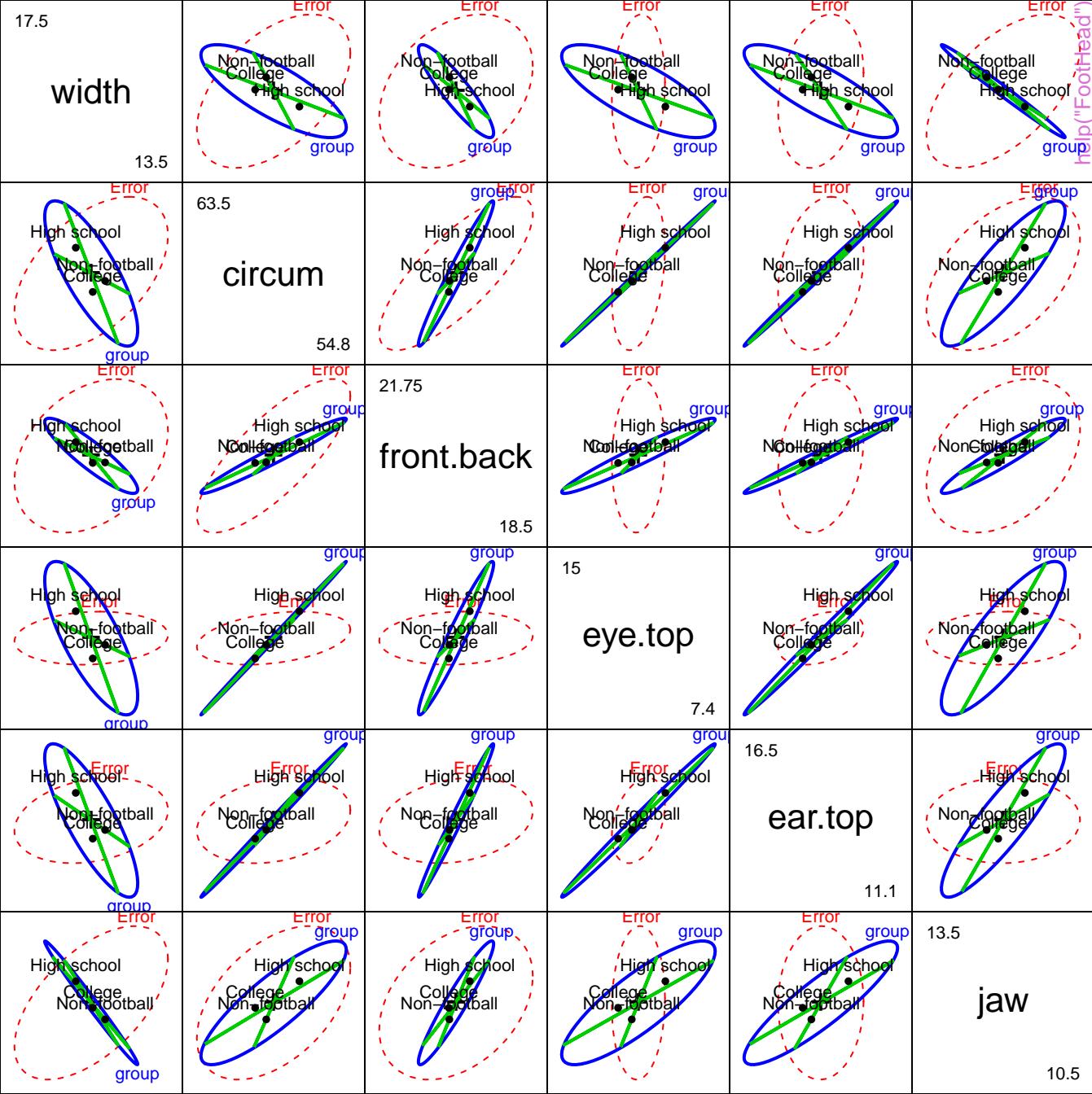
help("FootHead")

# HE plot with orthogonal Helmert contrasts

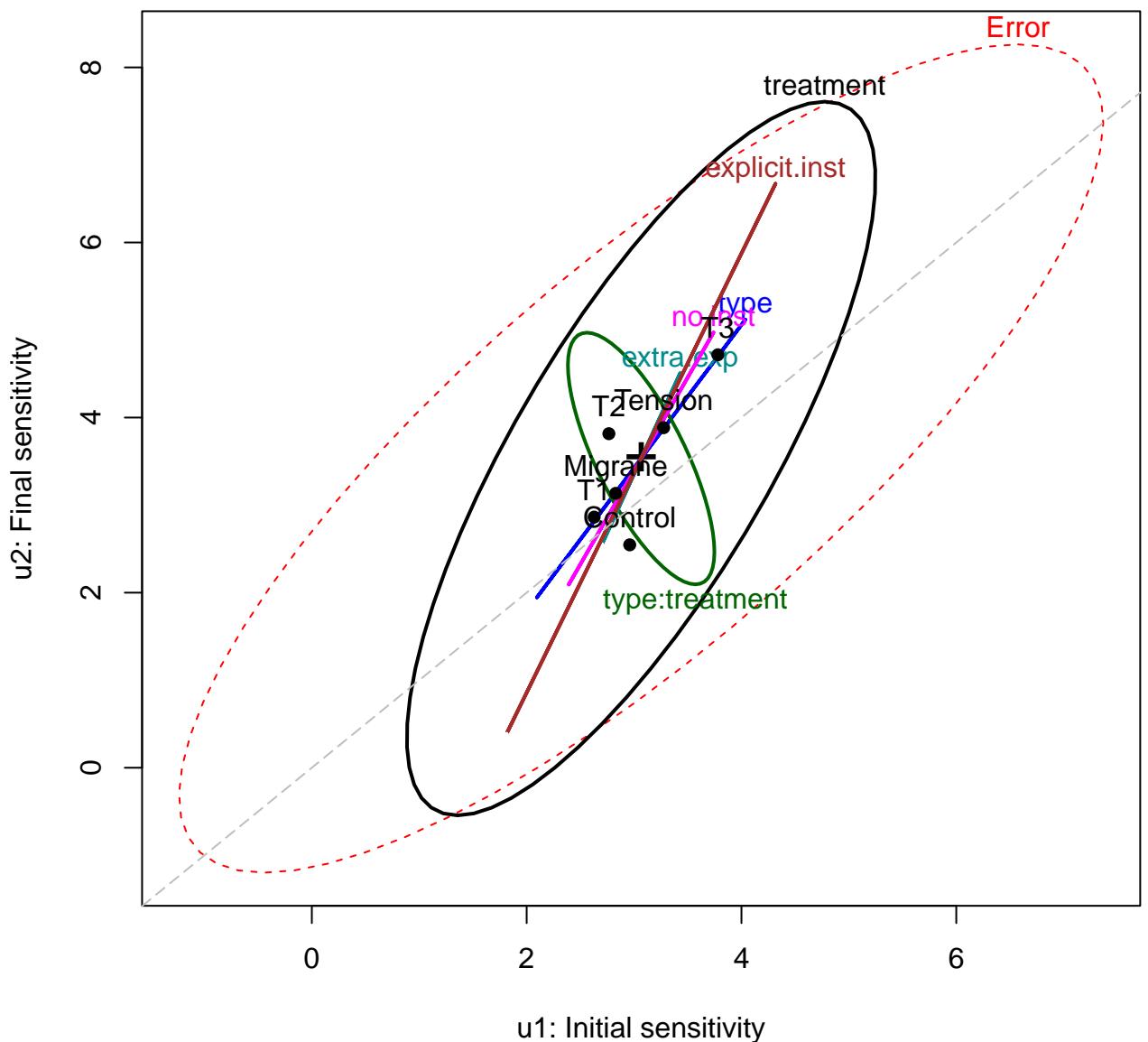


help("FootHead")



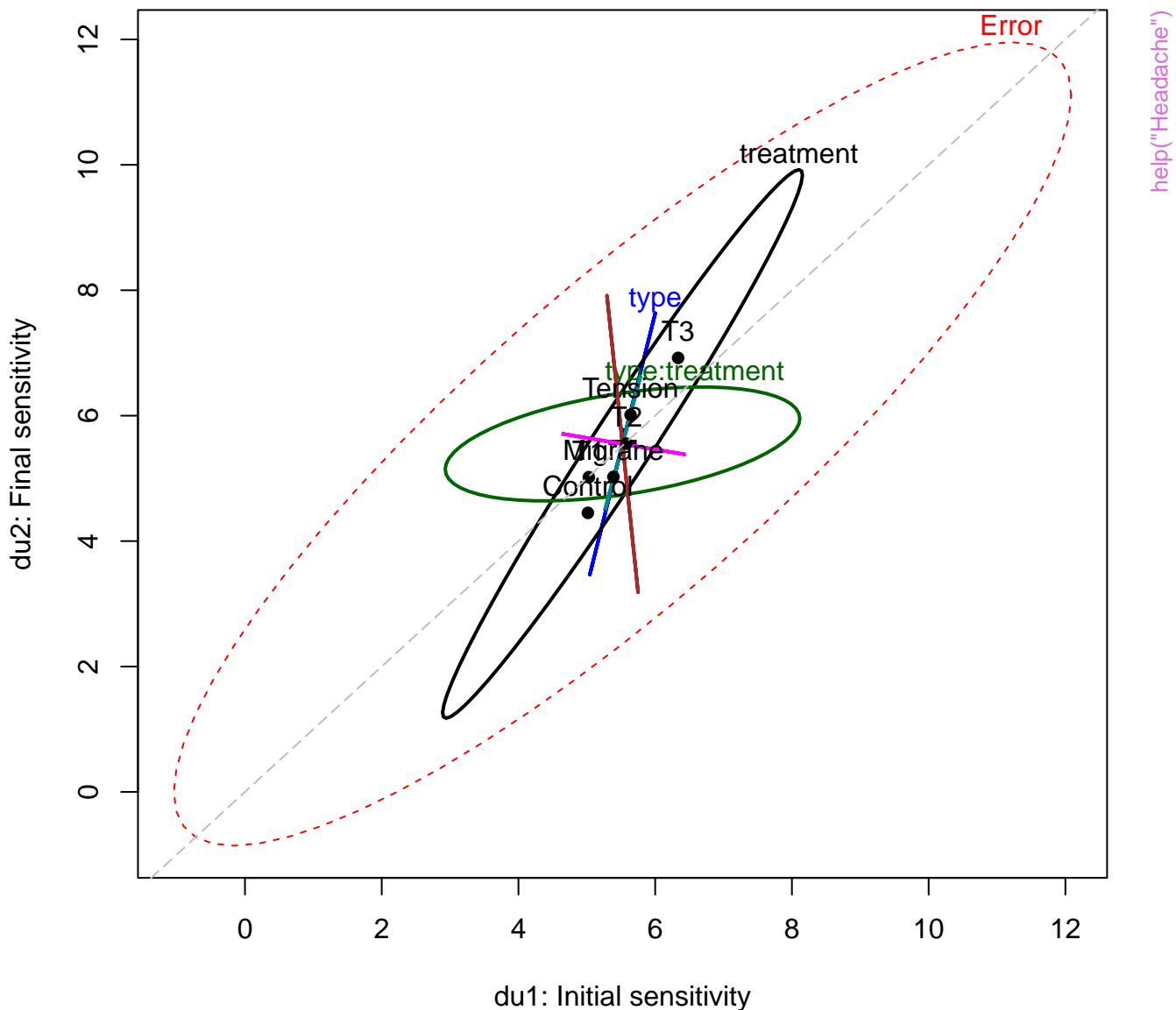


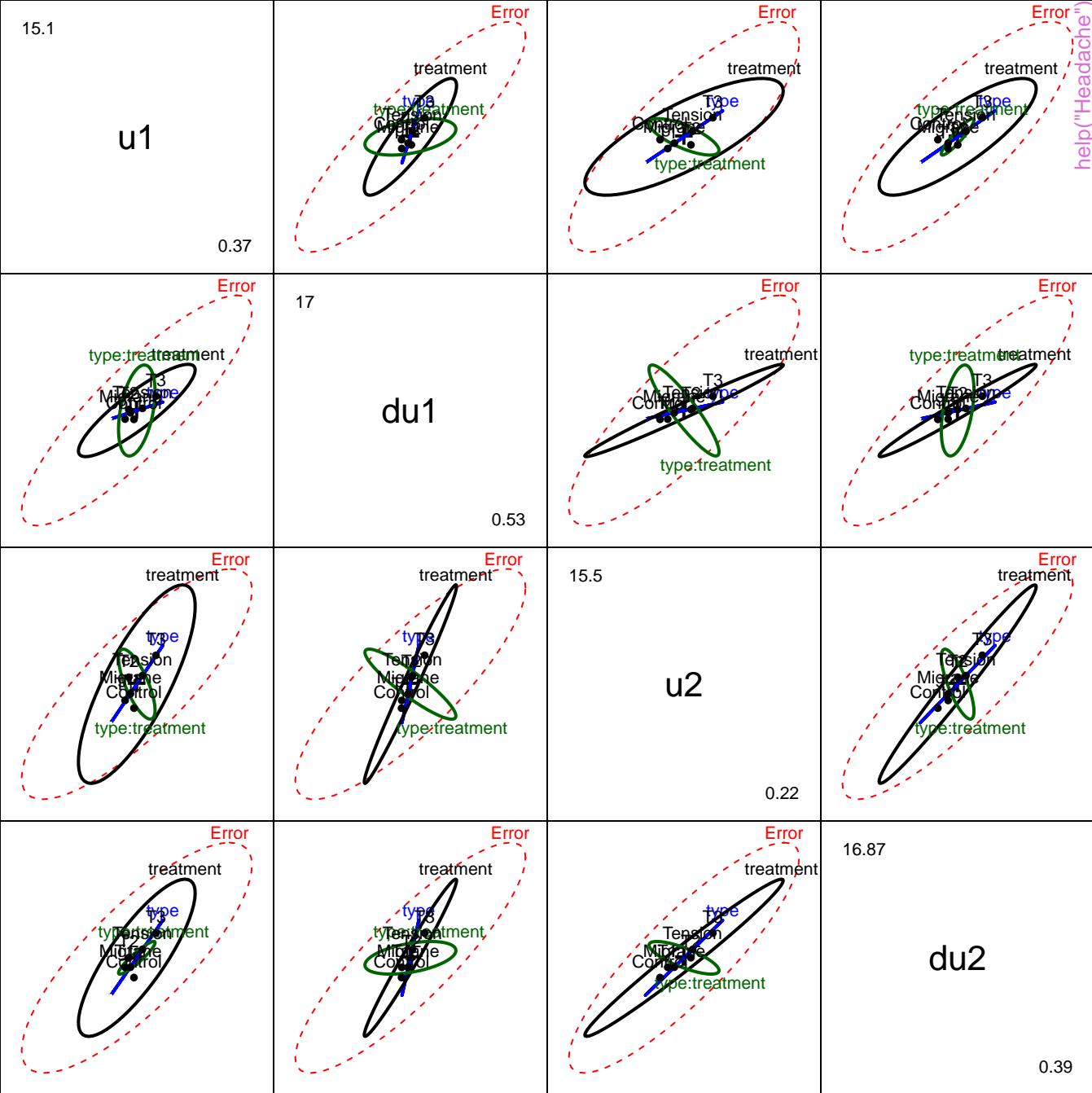
## Headache data: Unpleasant levels

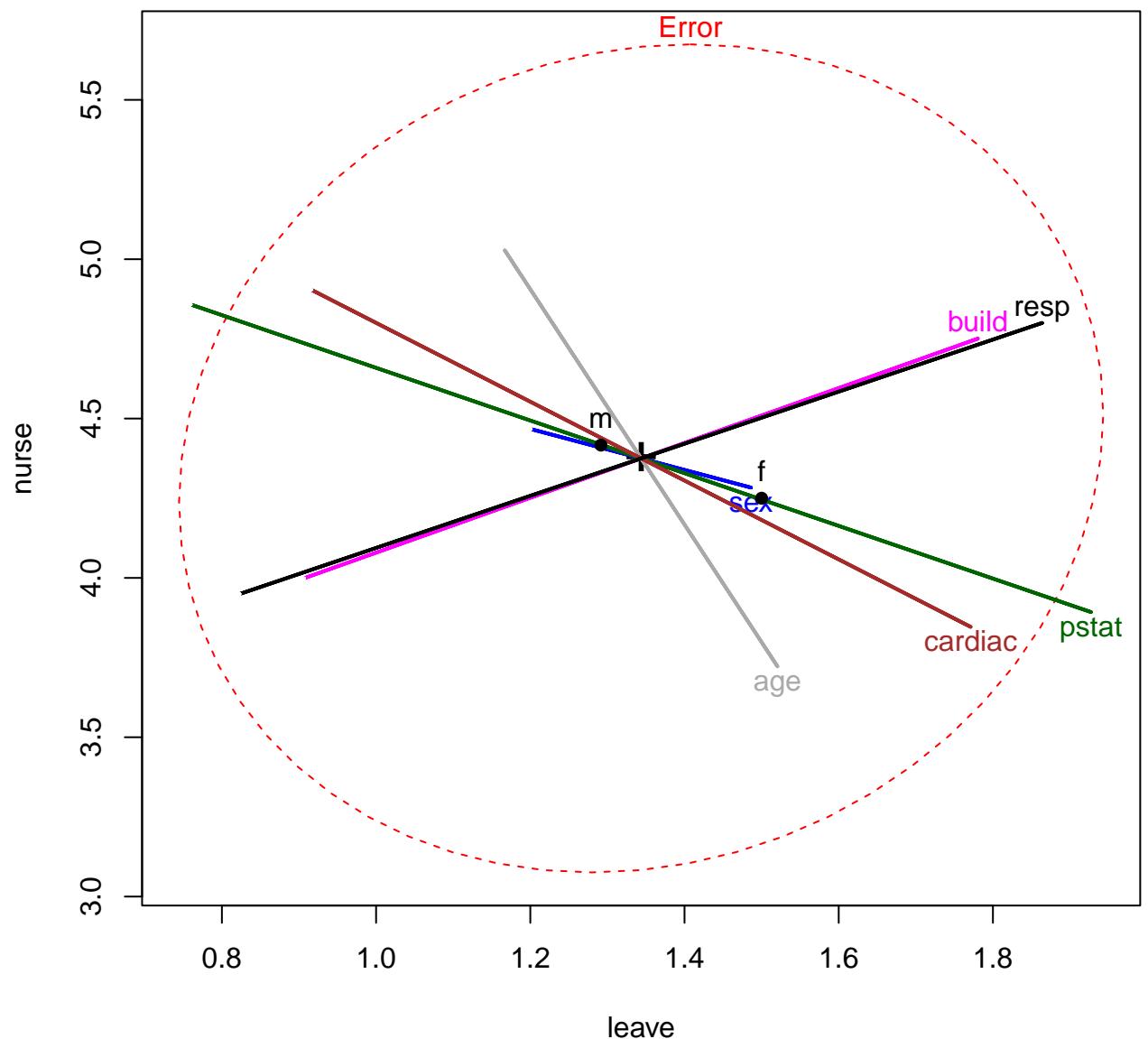


help("Headache")

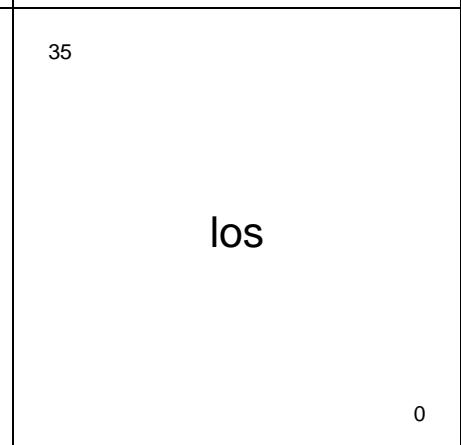
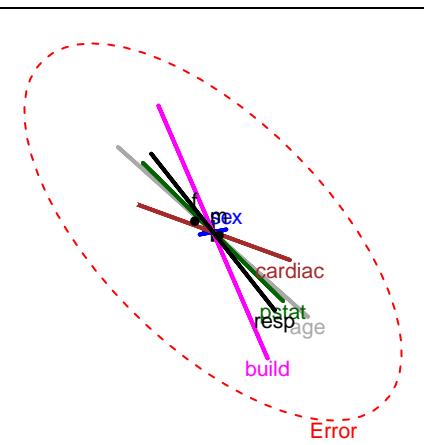
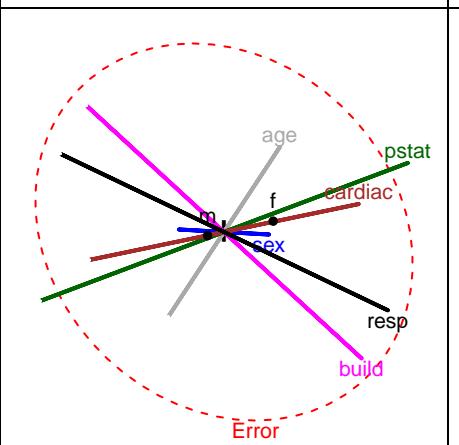
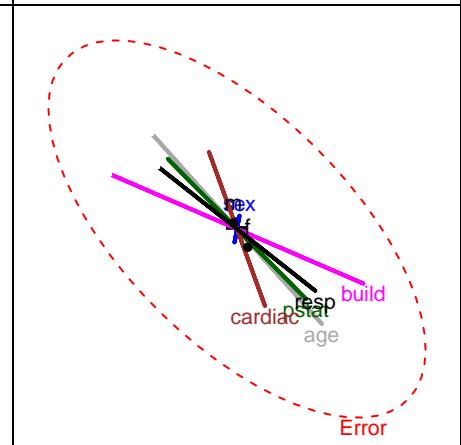
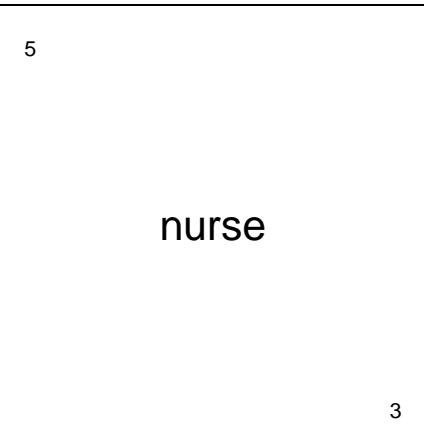
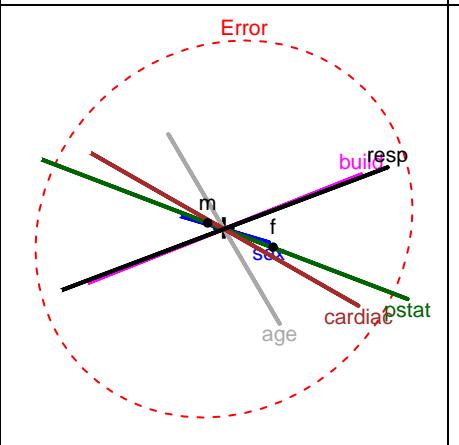
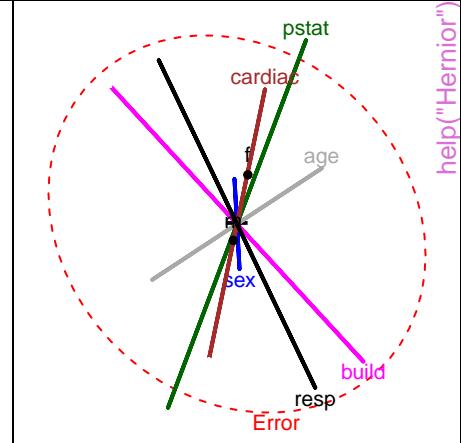
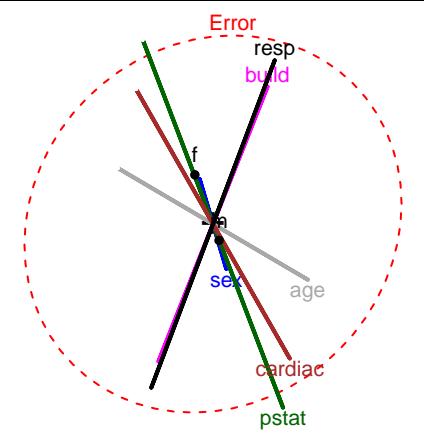
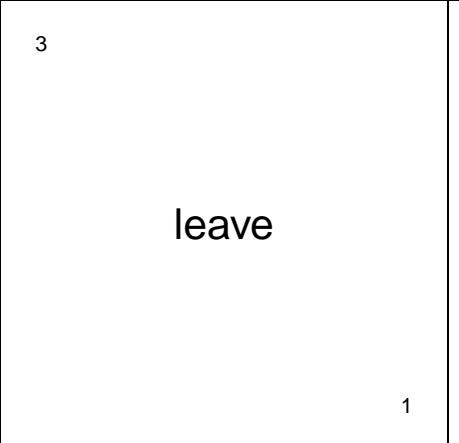
# Headache data: Definitely Unpleasant levels







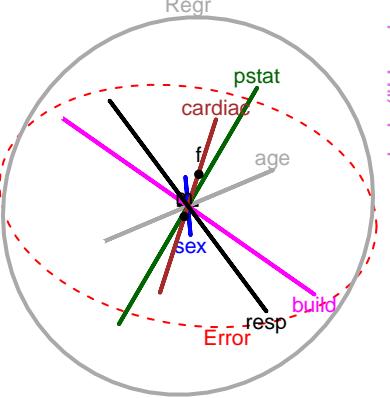
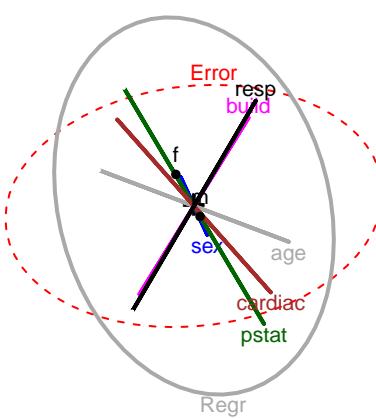
```
help("Hernior")
```



3

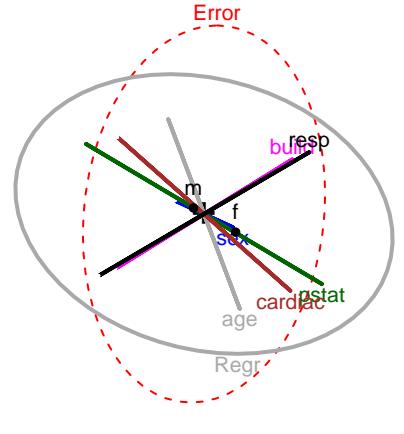
## LeaveCondition (leave)

1



help("Hernior")

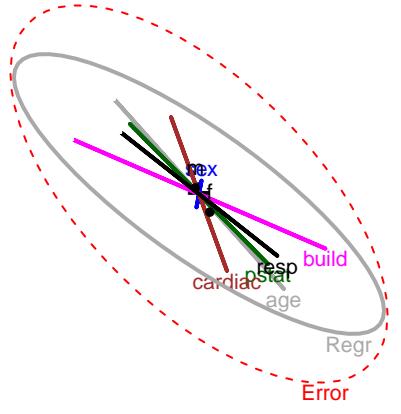
1



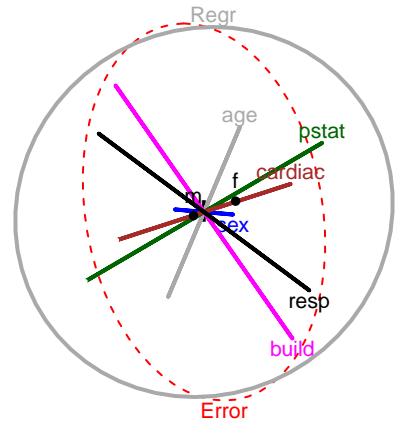
5

## NursingCare (nurse)

3



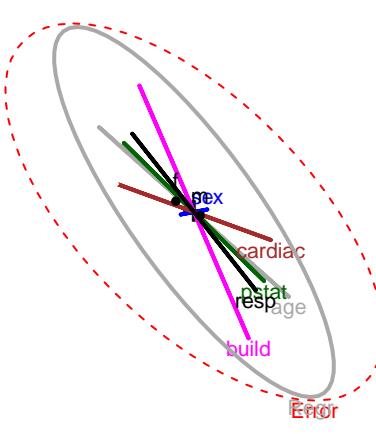
3



35

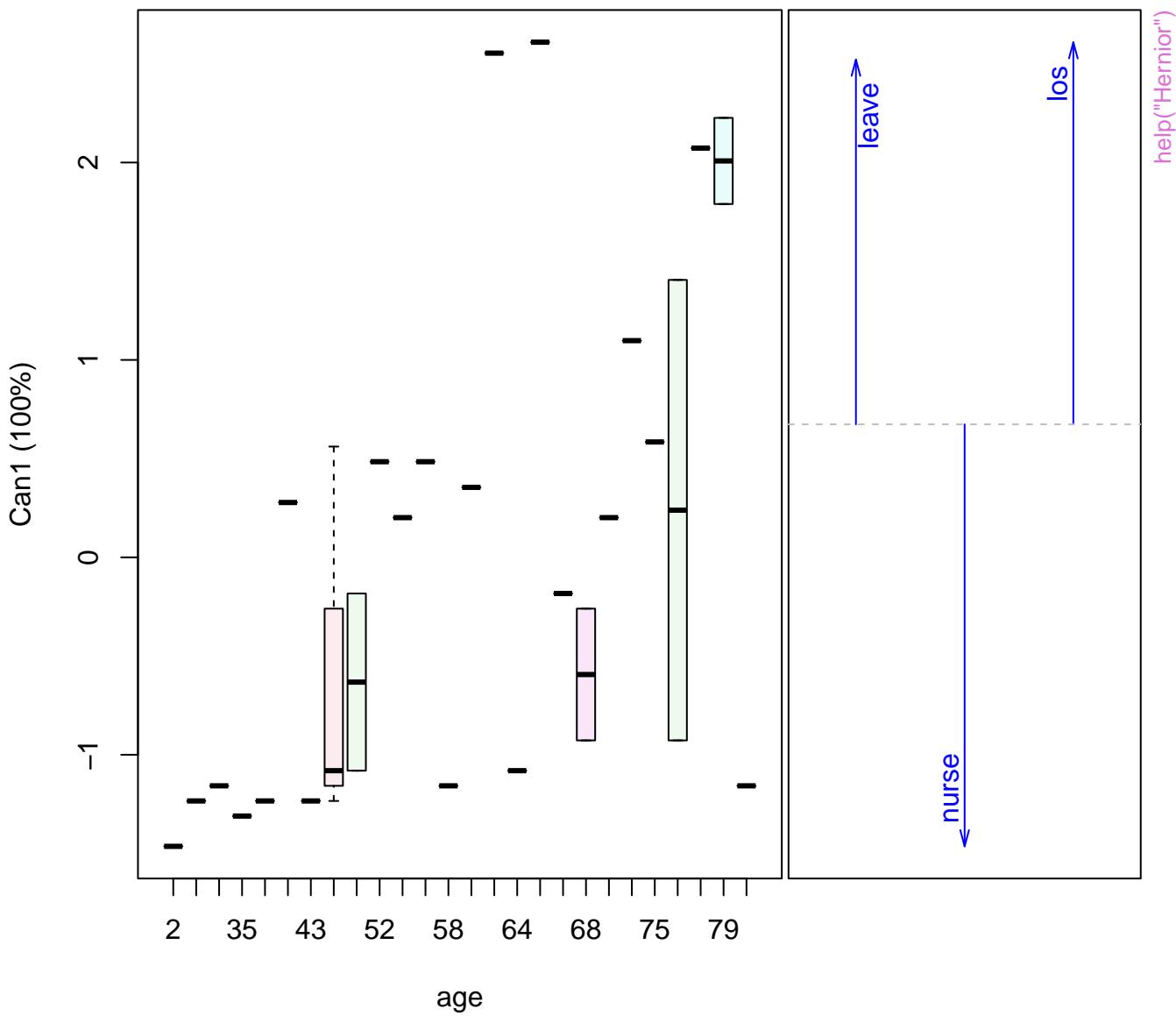
## LengthOfStay (los)

0

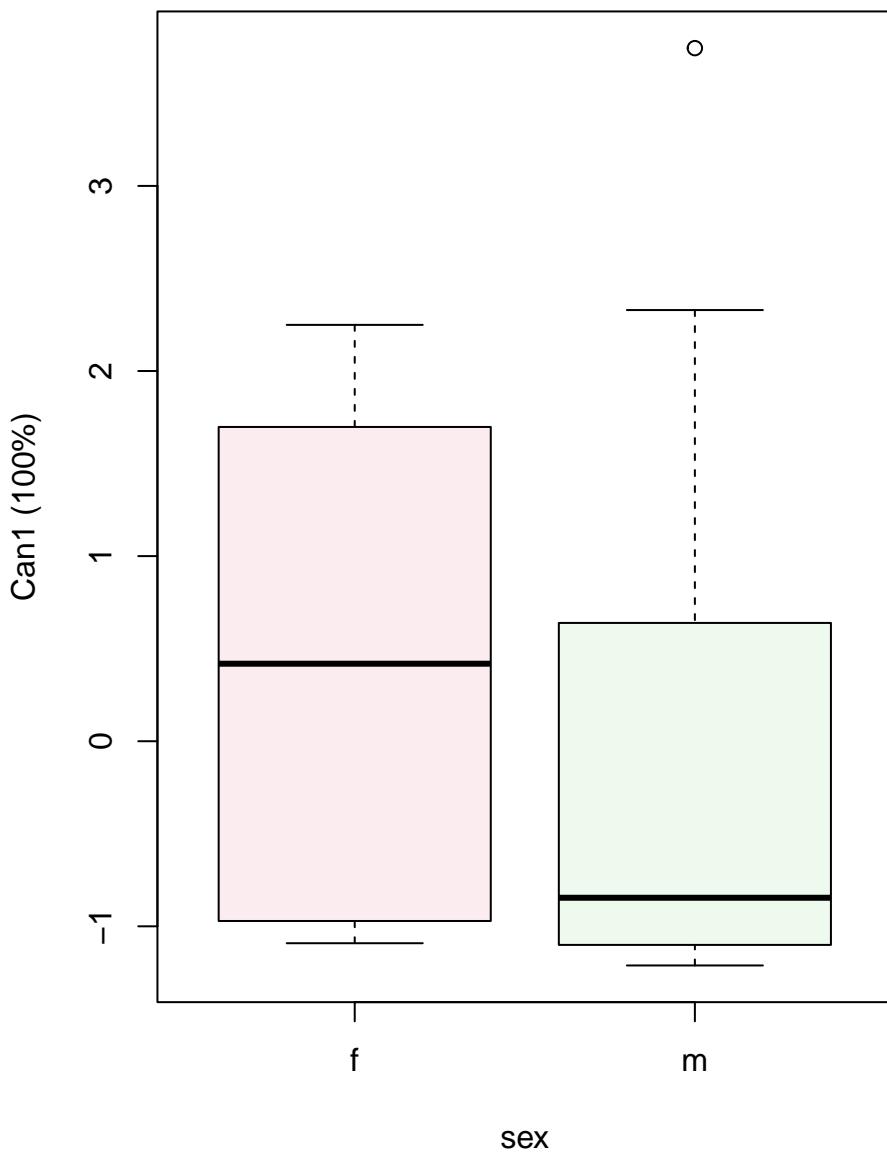


## Canonical scores

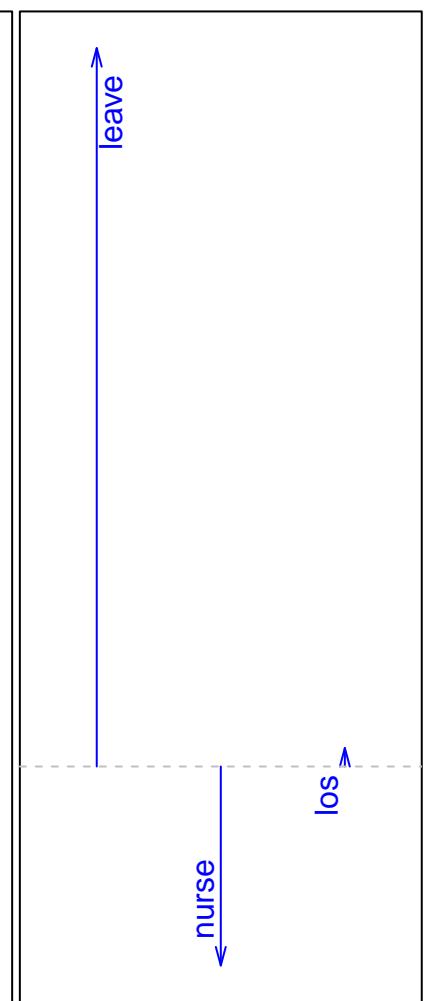
## Structure



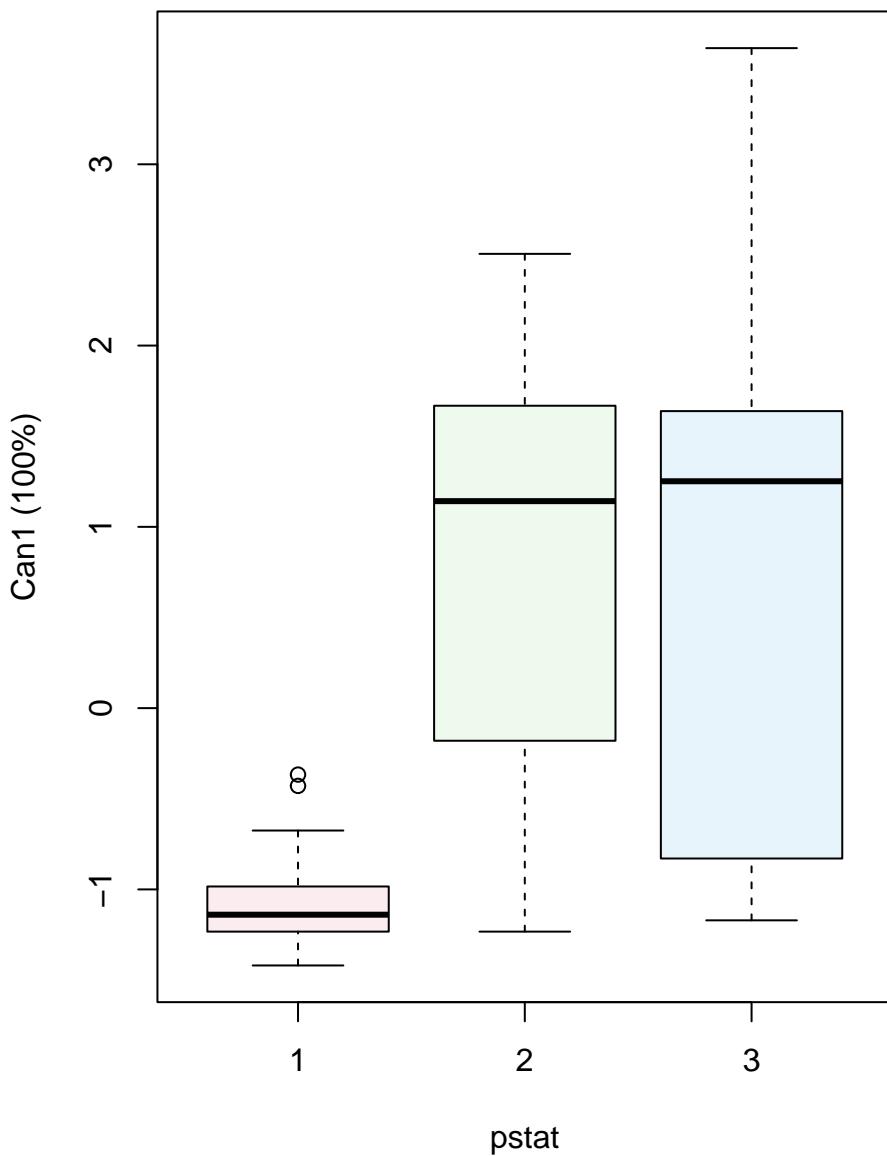
## Canonical scores



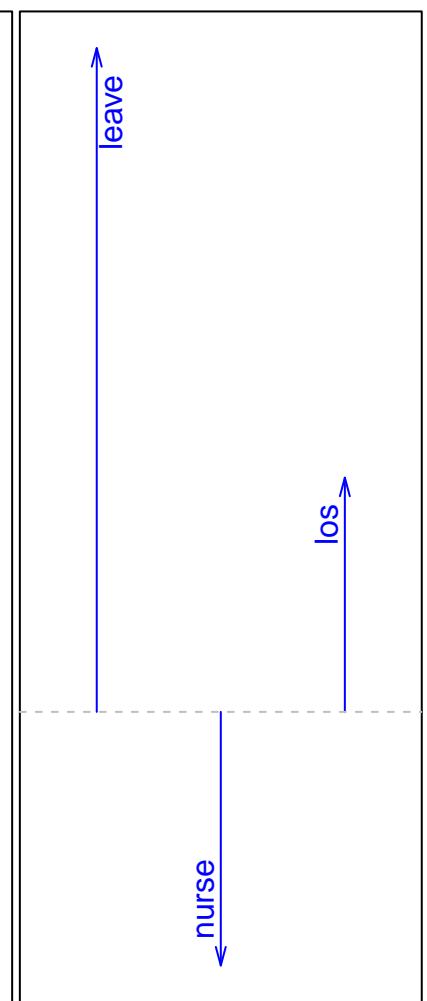
## Structure



## Canonical scores



## Structure



help("Hernior")

help("Iwasaki\_Big\_Five")

Extraversion

160  
140  
120  
100  
80

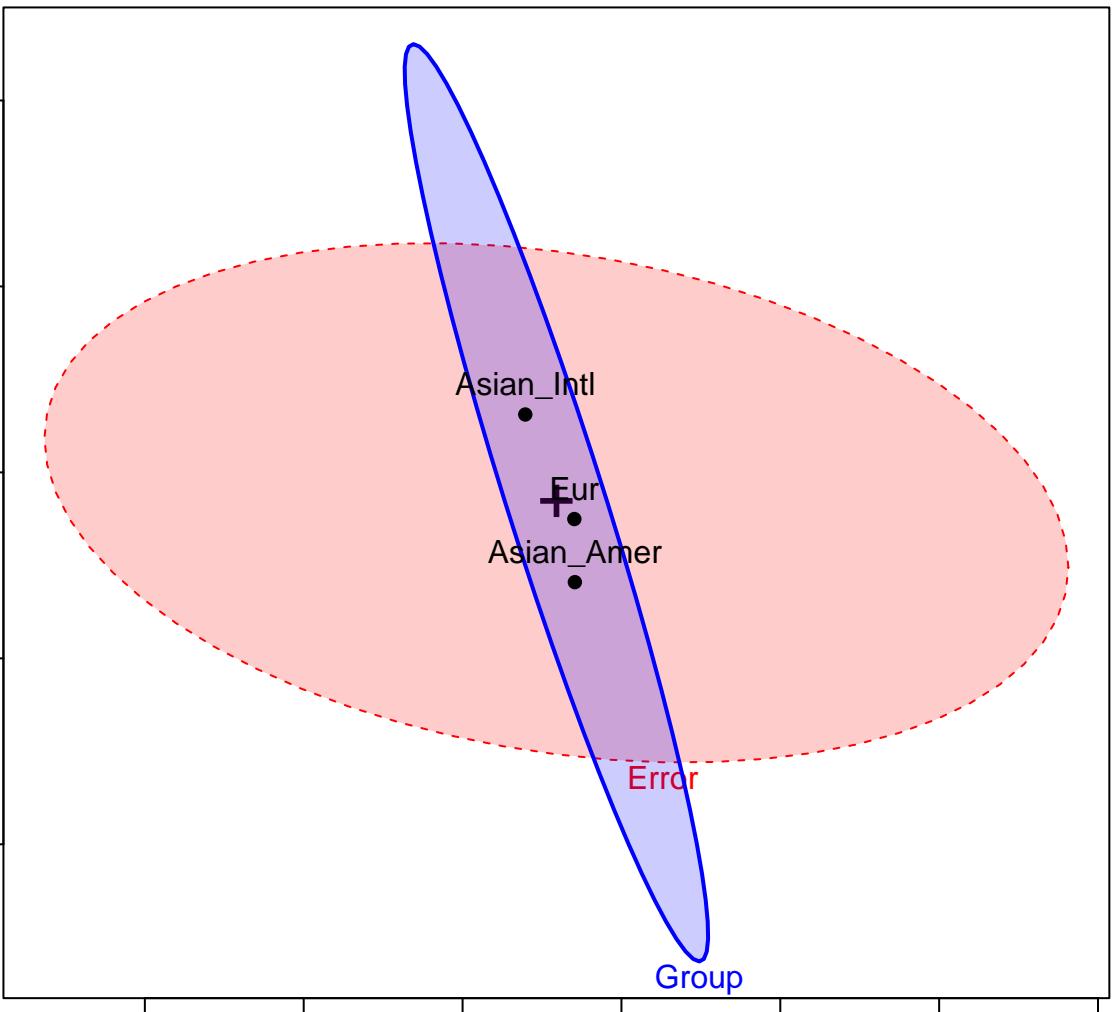
70 80 90 100 110 120 130

Neuroticism

Asian\_Intl  
Eur  
Asian\_Amer

Error

Group



Conscientiousness

140  
130  
120  
110  
100  
90

80 100 120 140 160

Extraversion

Error

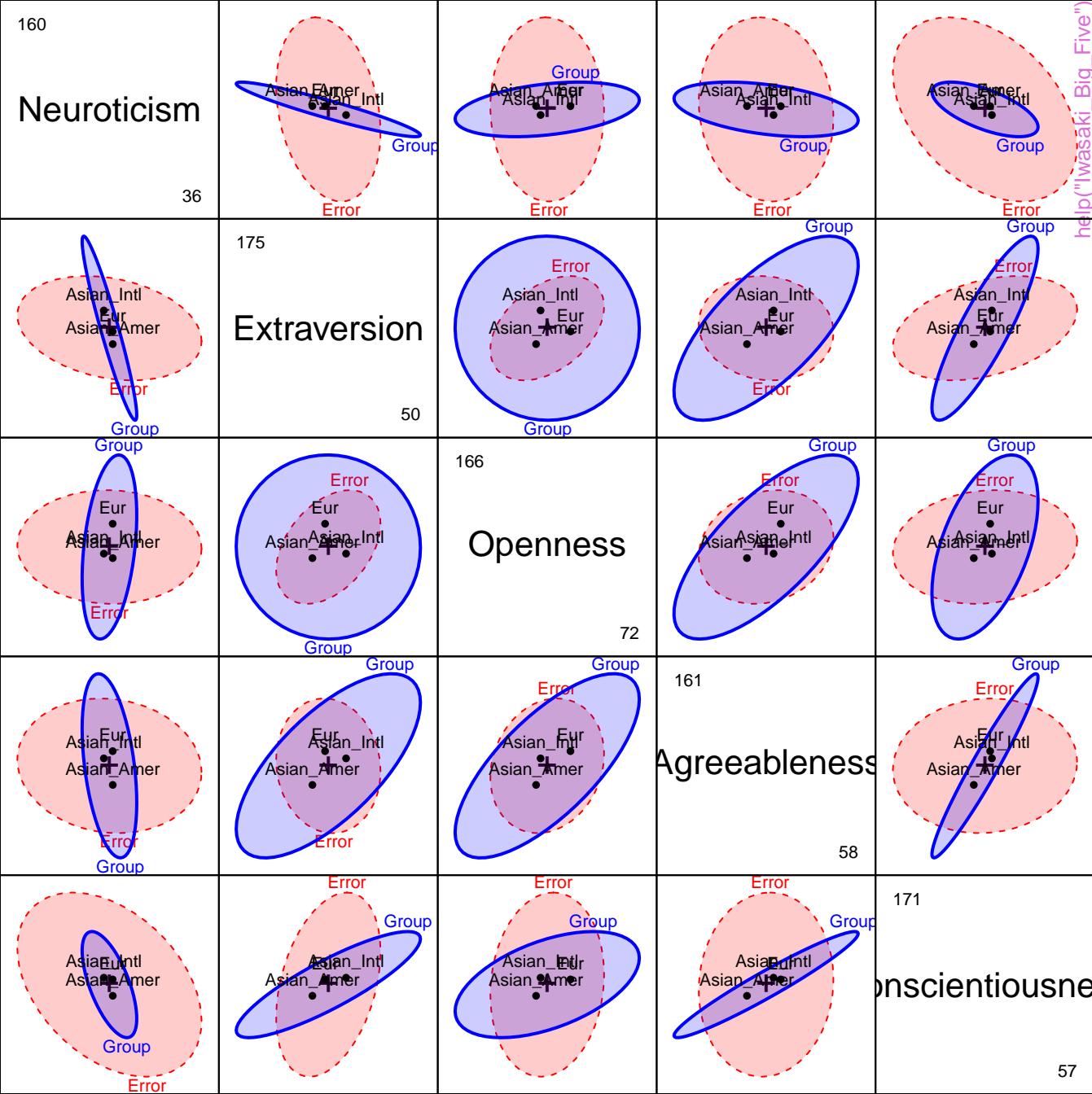
Group

Eur

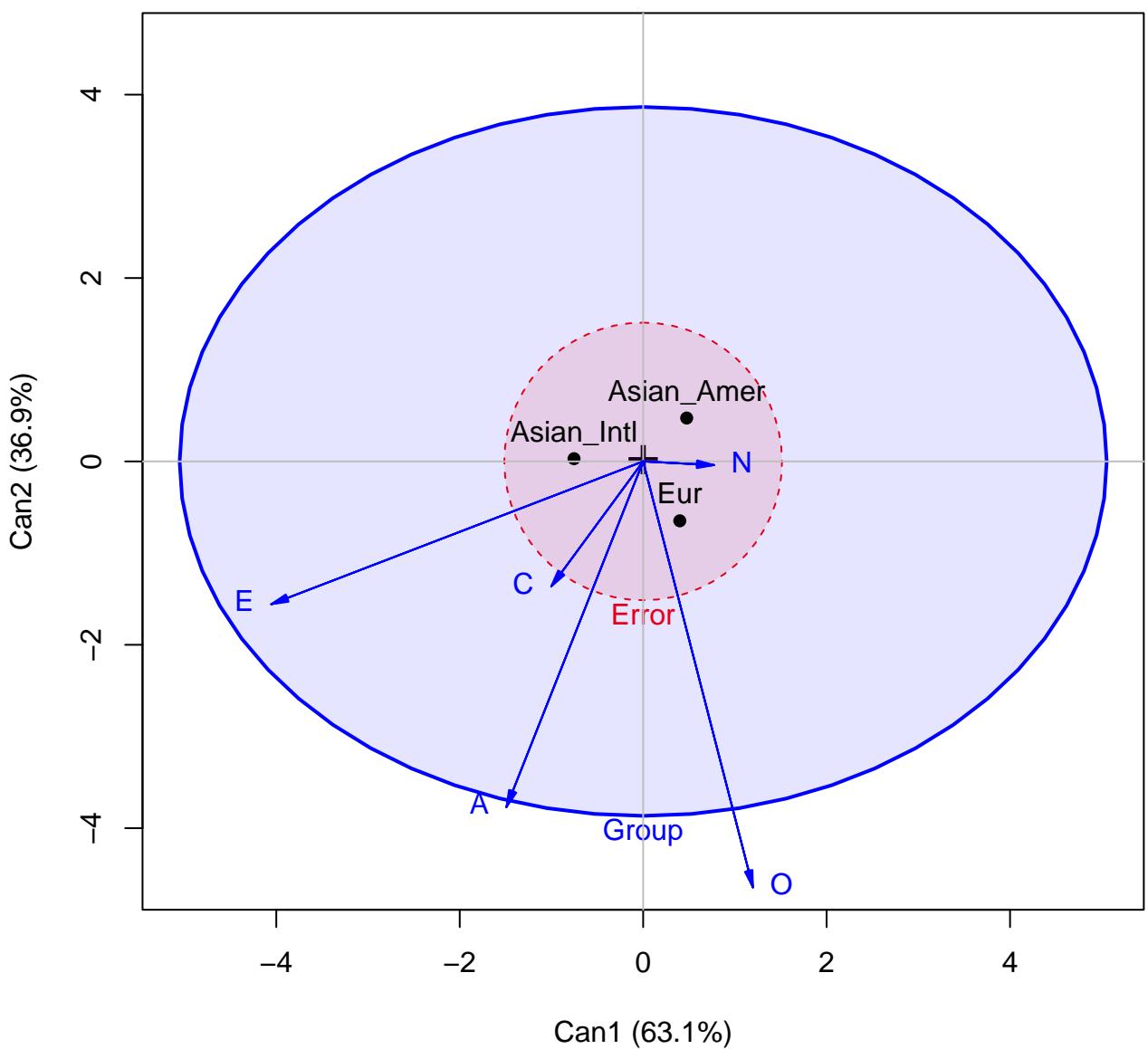
Asian\_Intl

Asian\_Amer

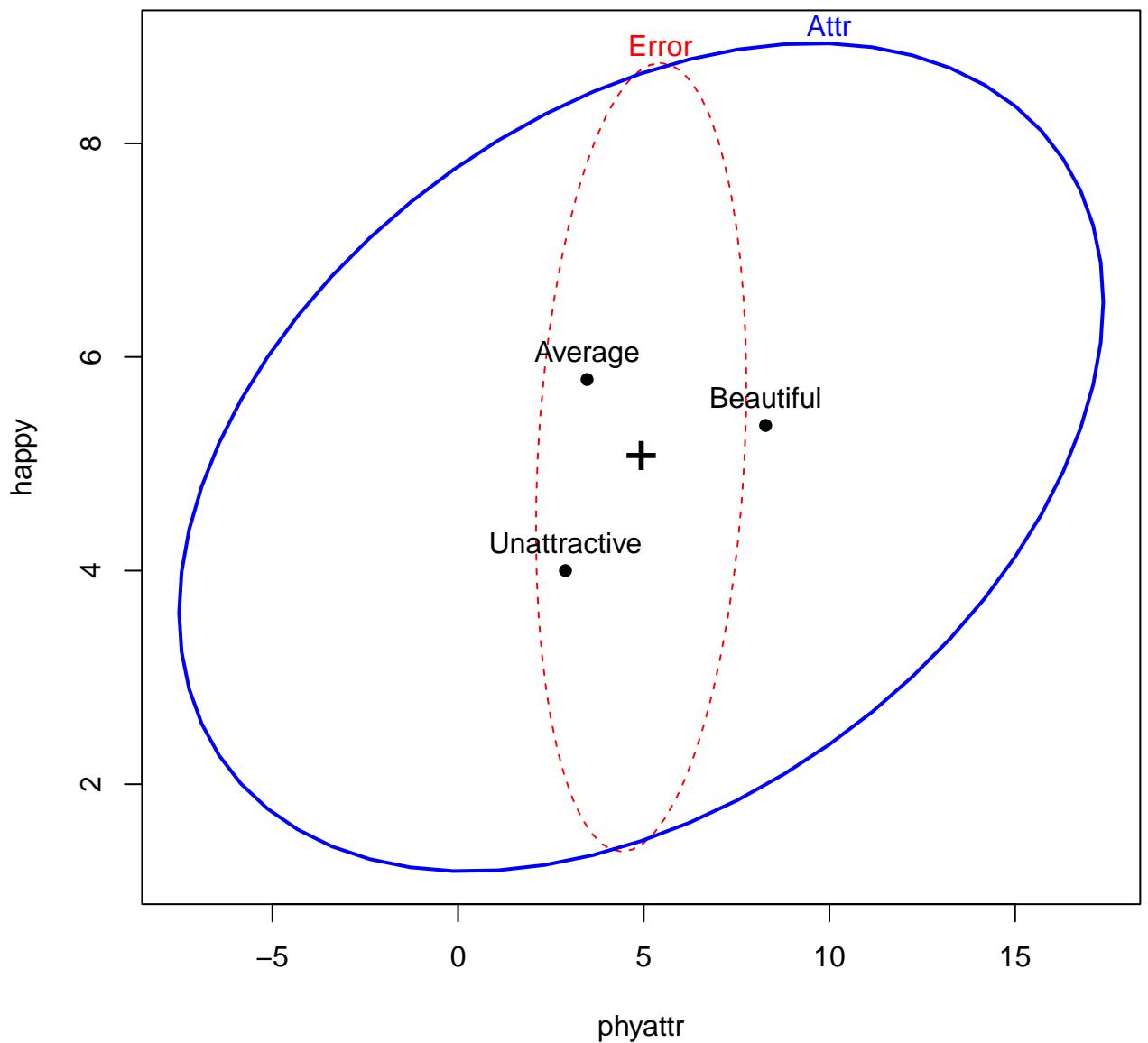
help("Iwasaki\_Big\_Five")



help("Iwasaki\_Big\_Five")



# HE plot for manipulation check

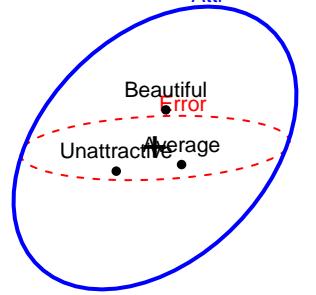


phyattr

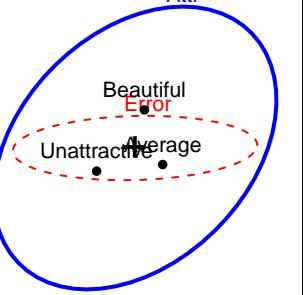
9

1

Attr



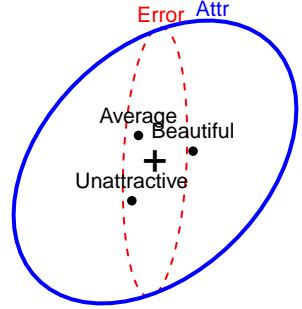
Attr



Beautiful  
Unattractive  
Average  
Error

Attr  
MockJury  
help("MockJury")

Error Attr

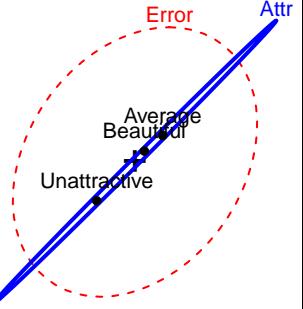


9

happy

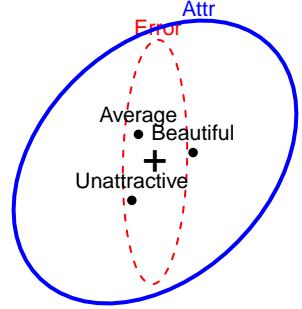
1

Error Attr



Average  
Unattractive  
Beautiful

Error Attr

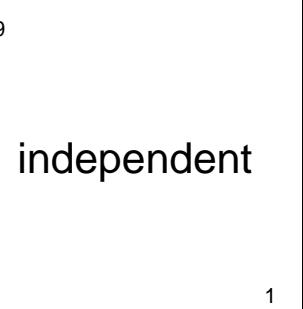


9

independent

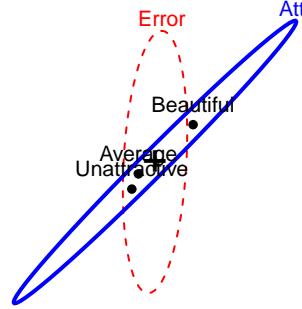
1

Error Attr



Average  
Unattractive  
Beautiful

Error Attr

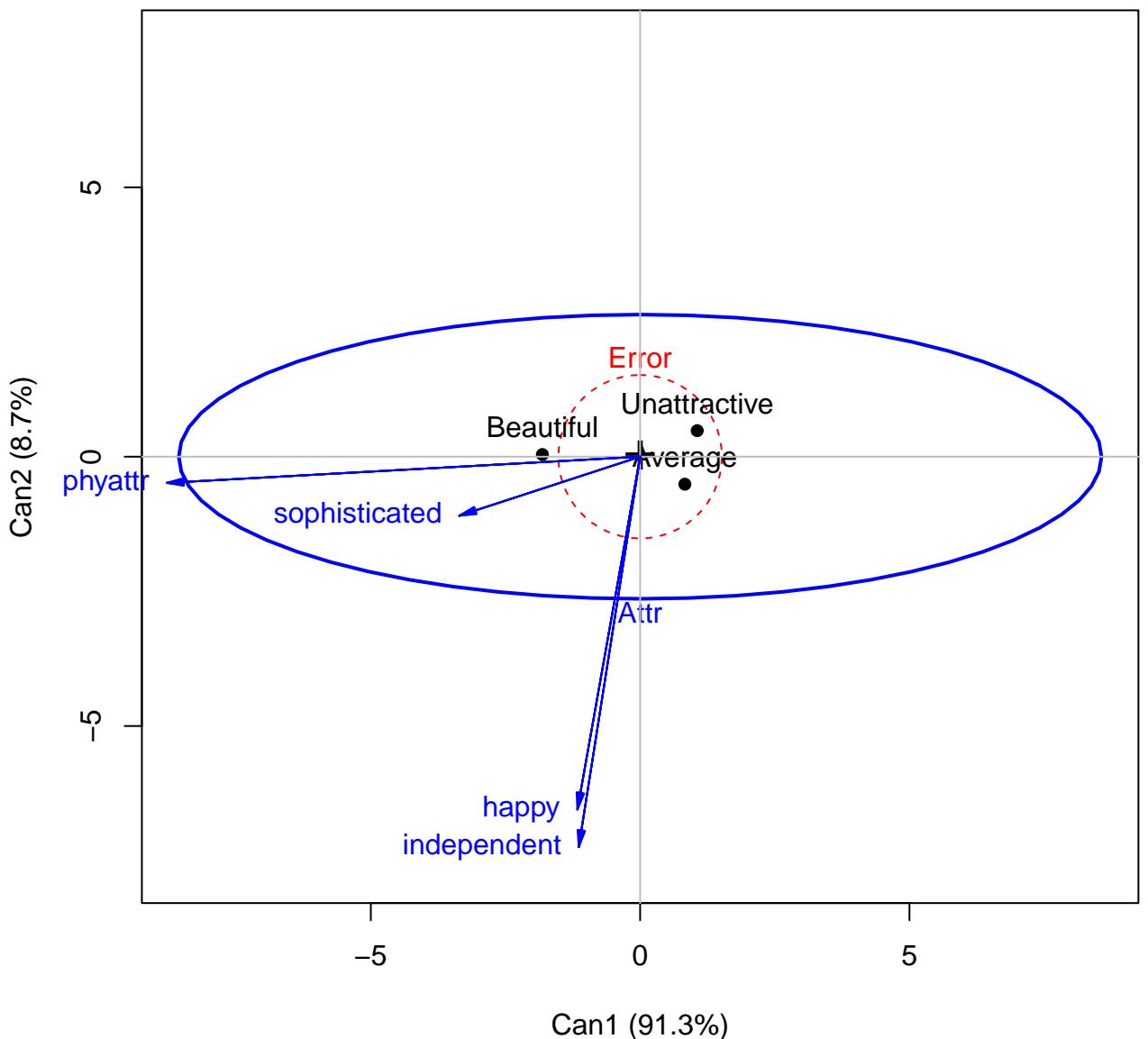


9

sophisticated

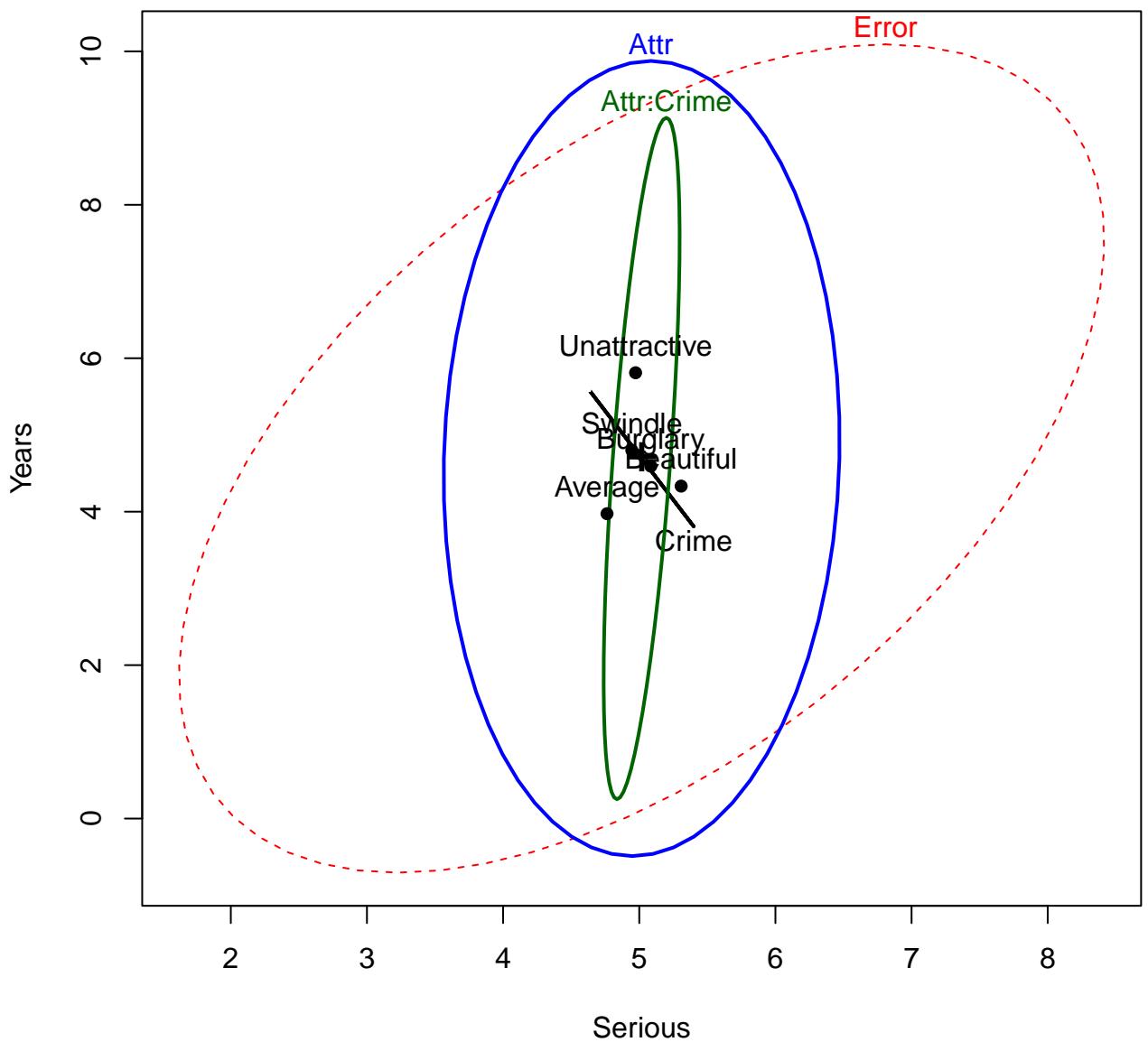
1

# Canonical HE plot

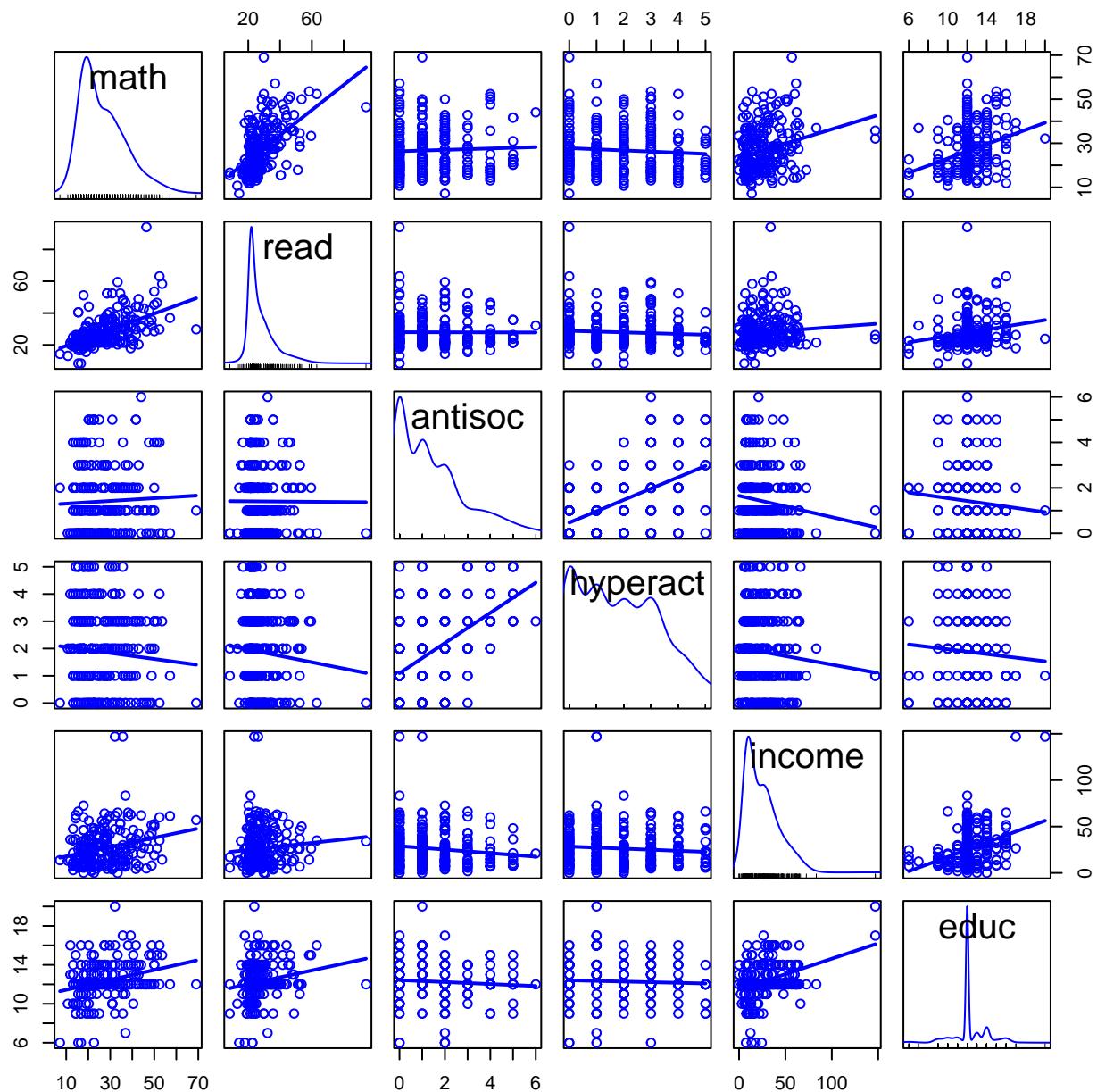


help("MockJury")

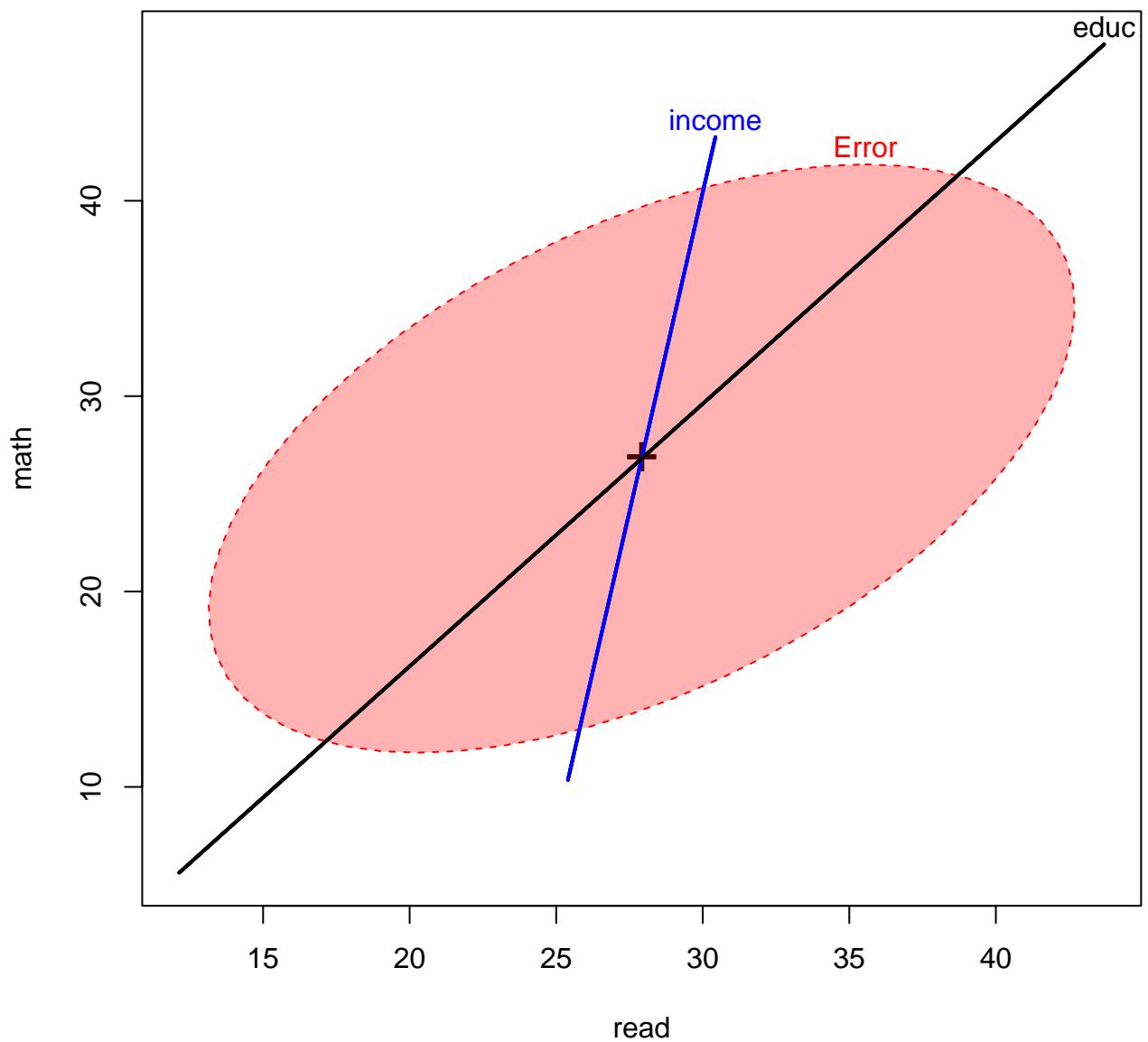
help("MockJury")



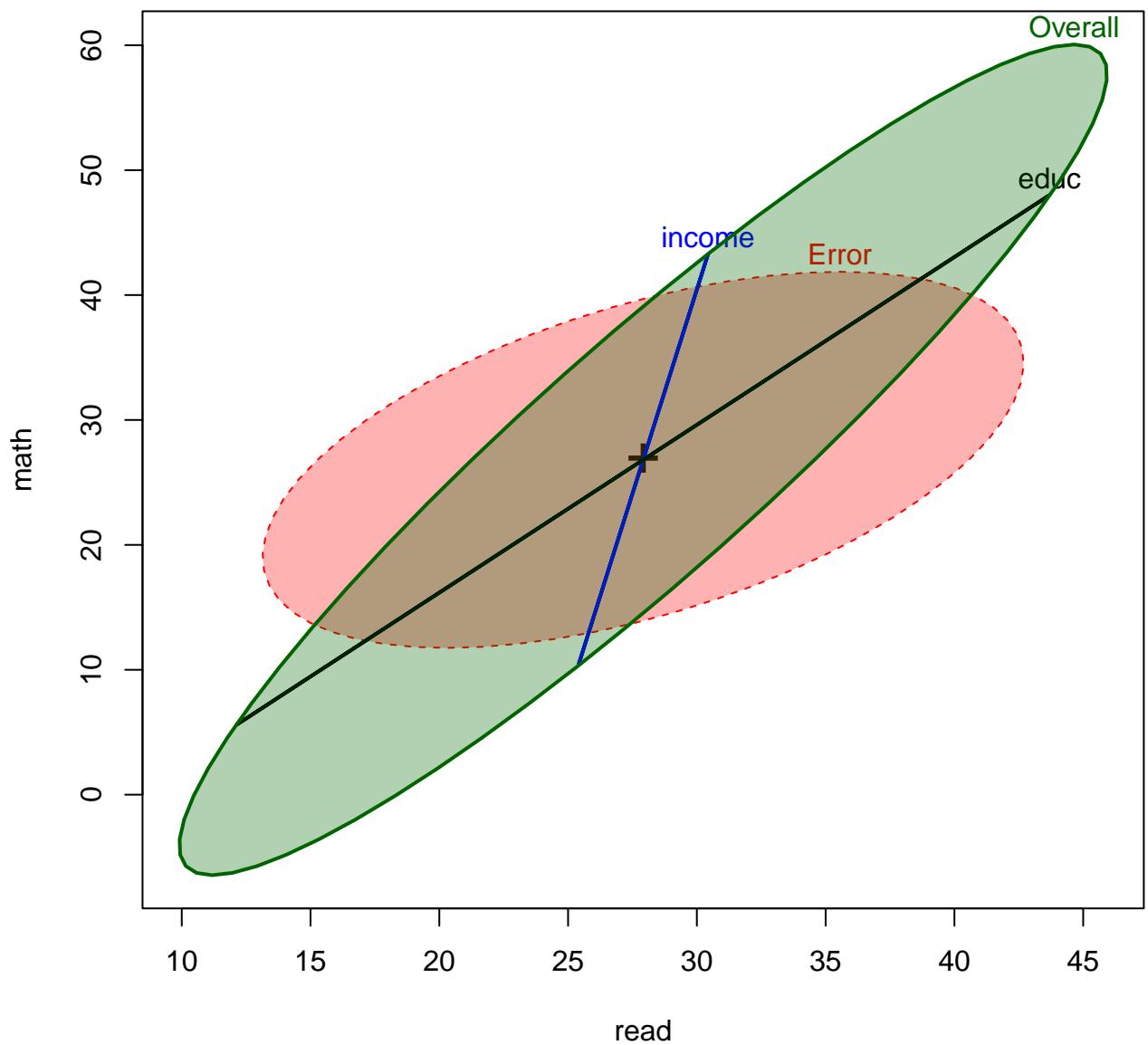
help("NLSY")



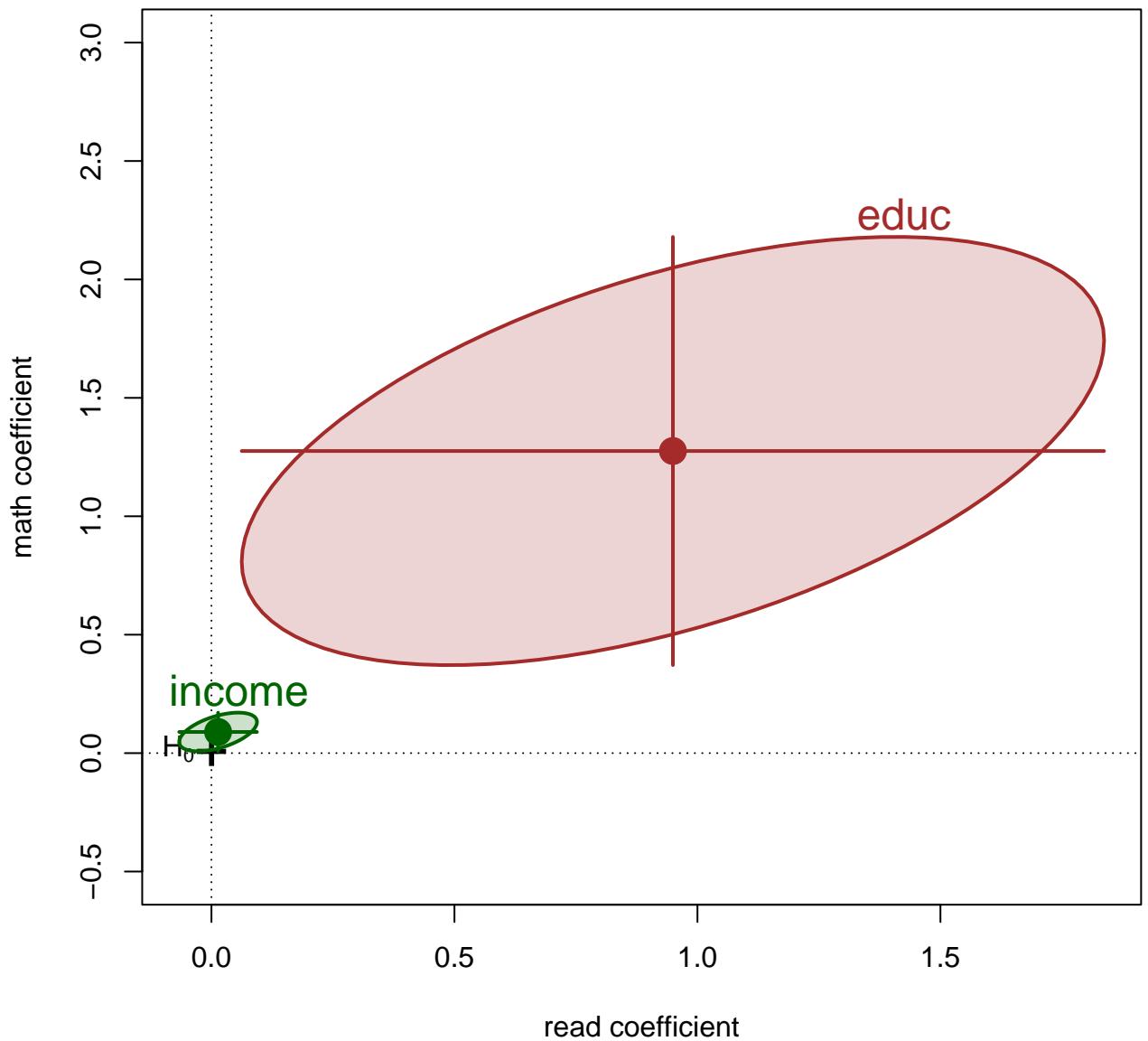
help("NLSY")



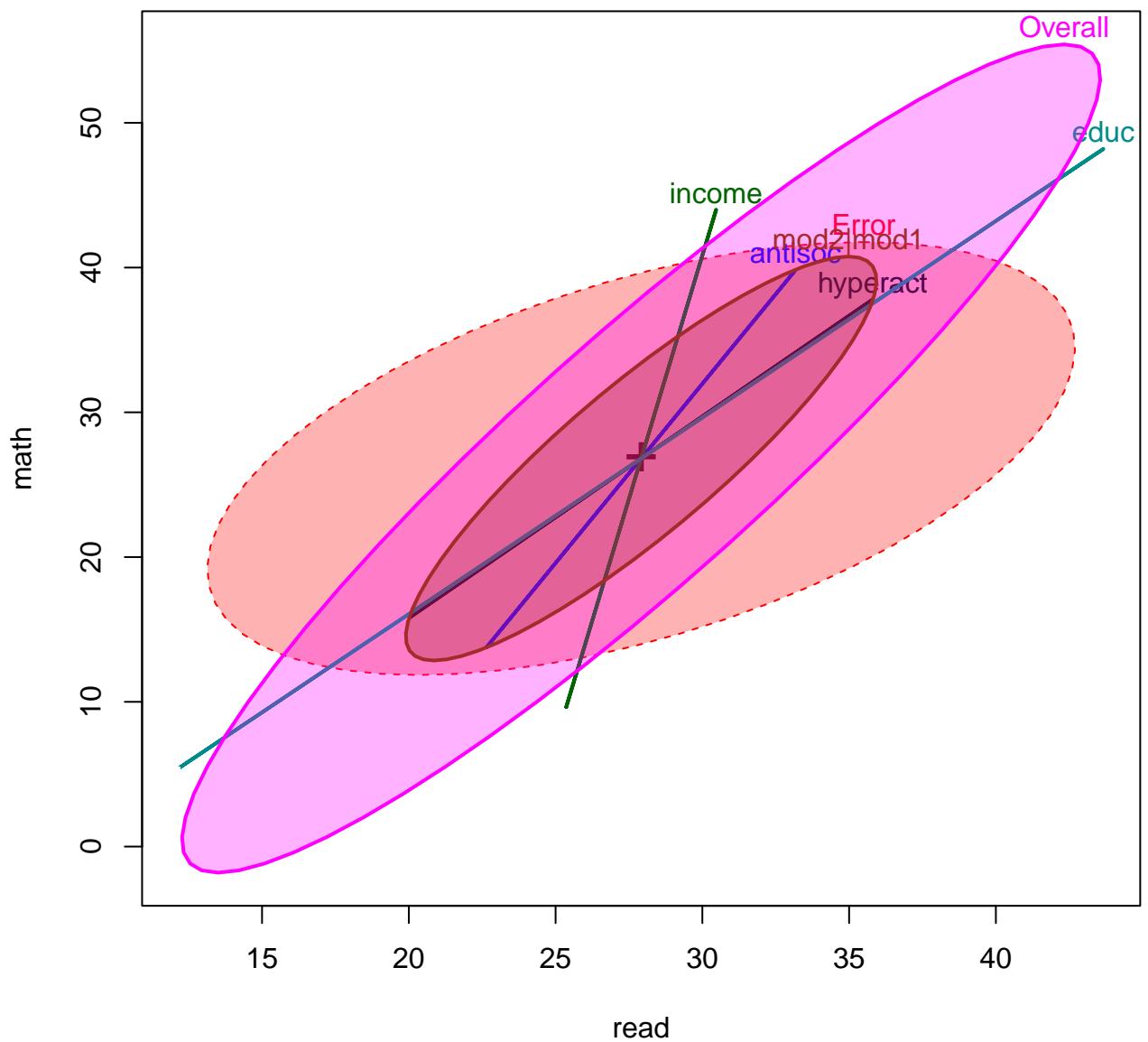
help("NLSY")



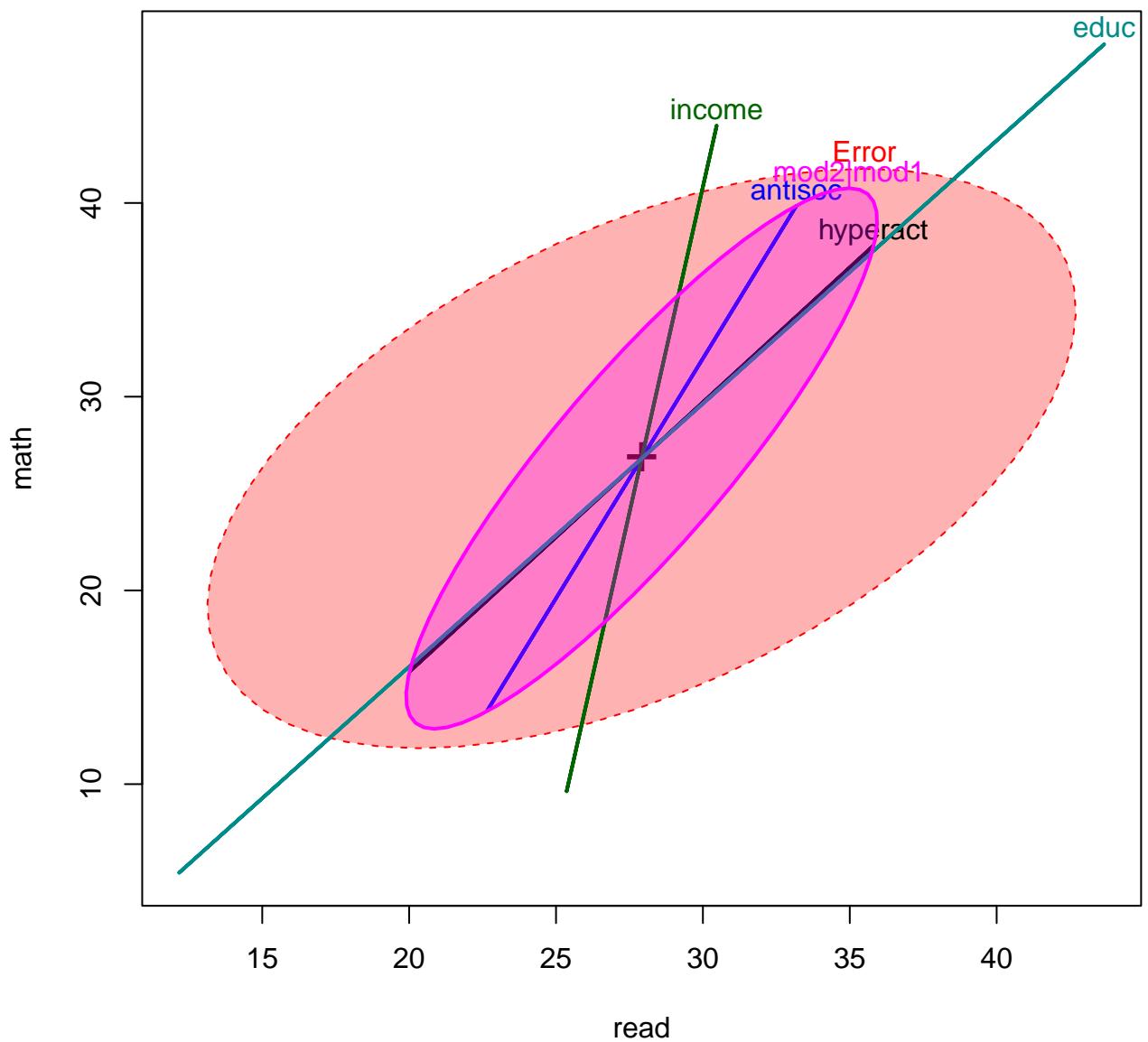
# Bivariate coefficient plot for reading and math with 95% confidence ellipses



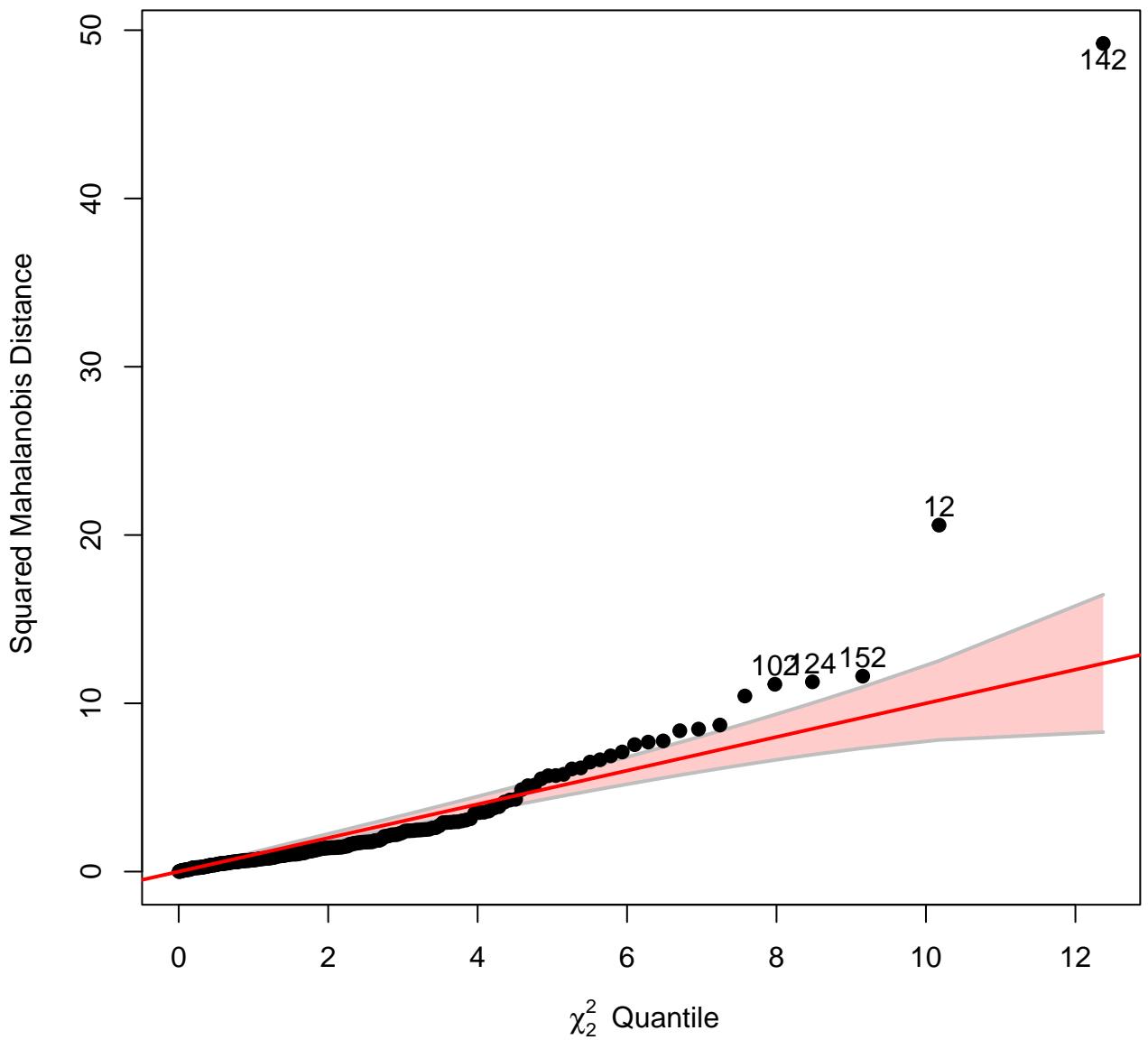
help("NLSY")



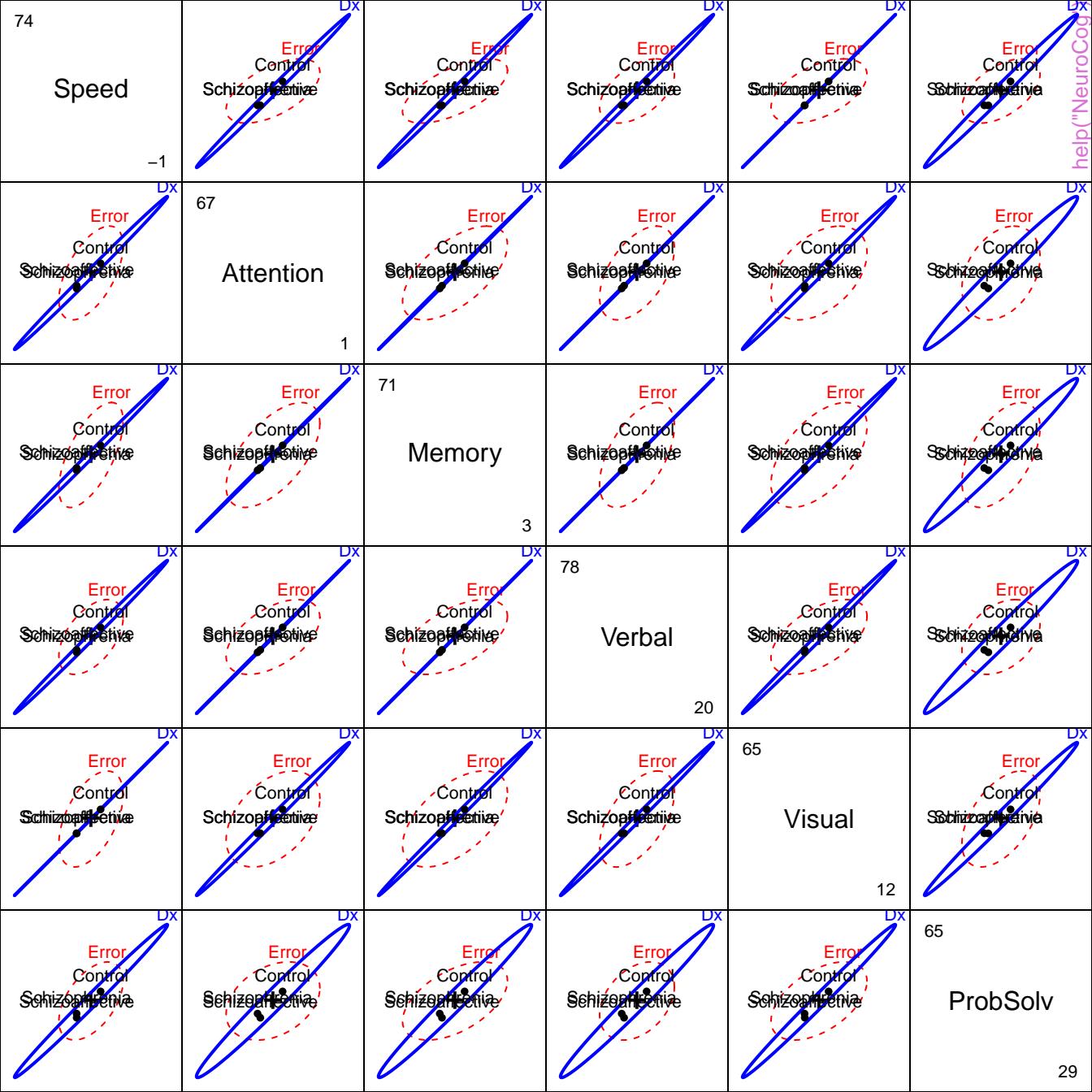
help("NLSY")



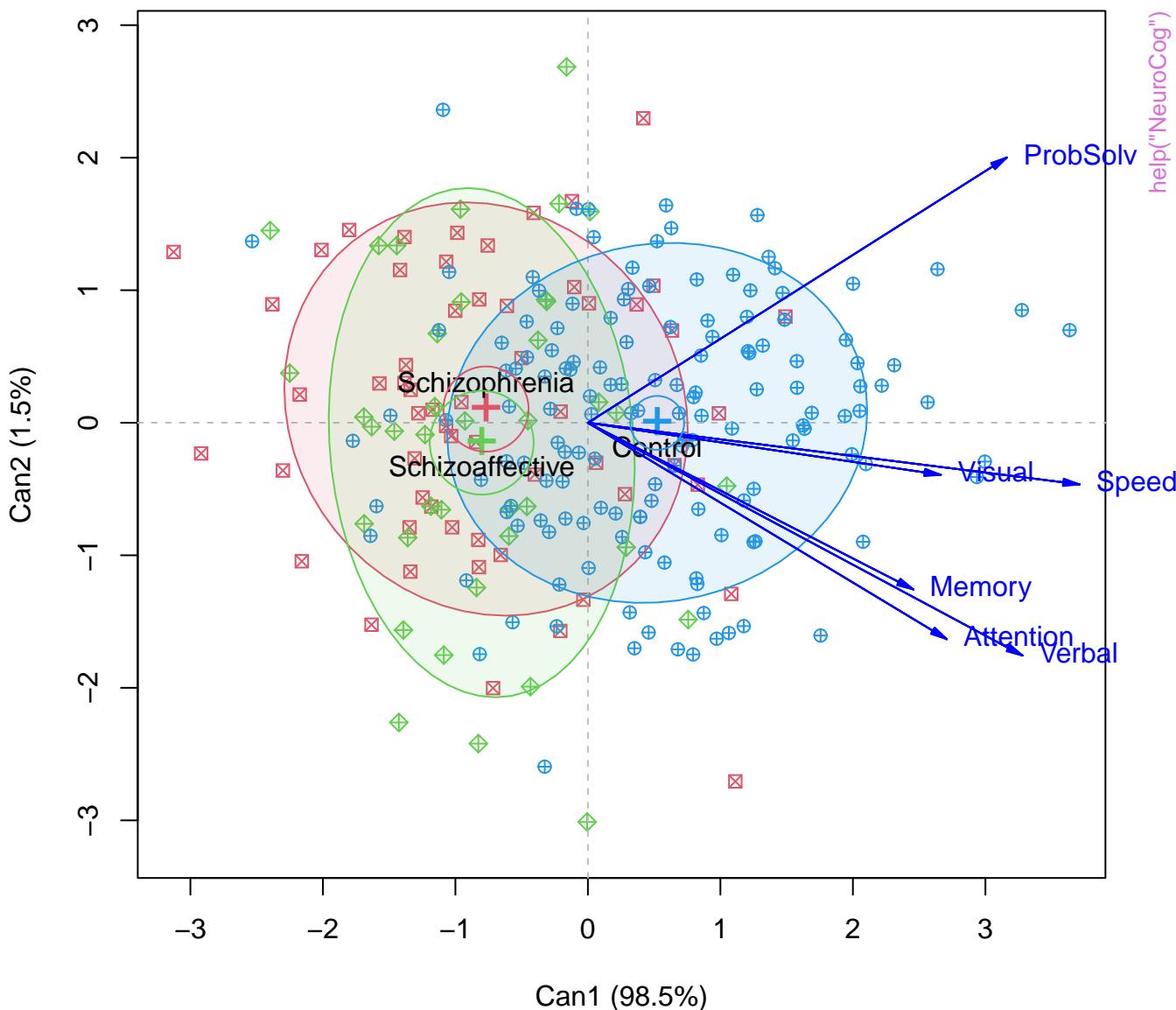
# Chi-Square Q-Q Plot of NLSY.mod2



74

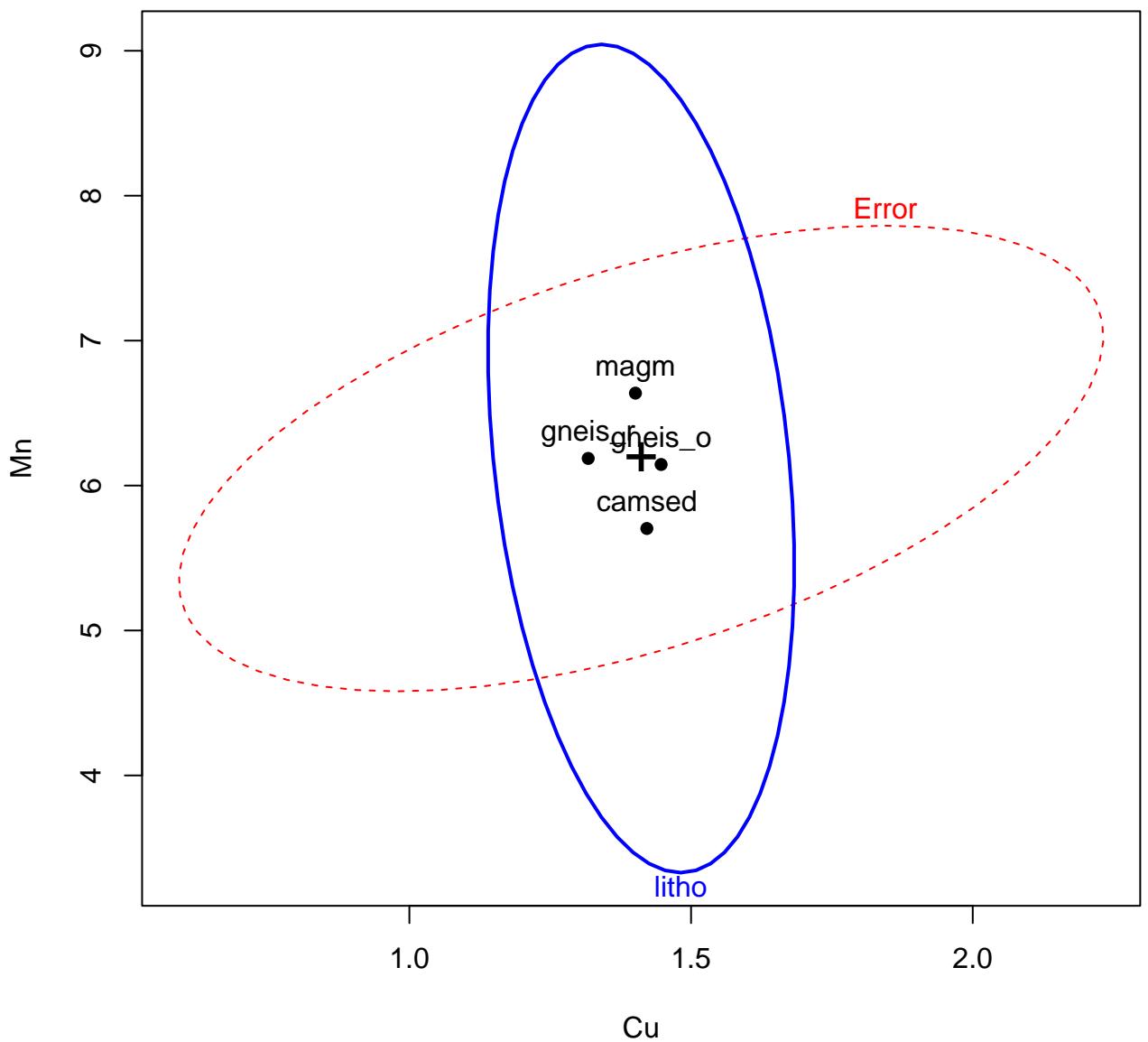


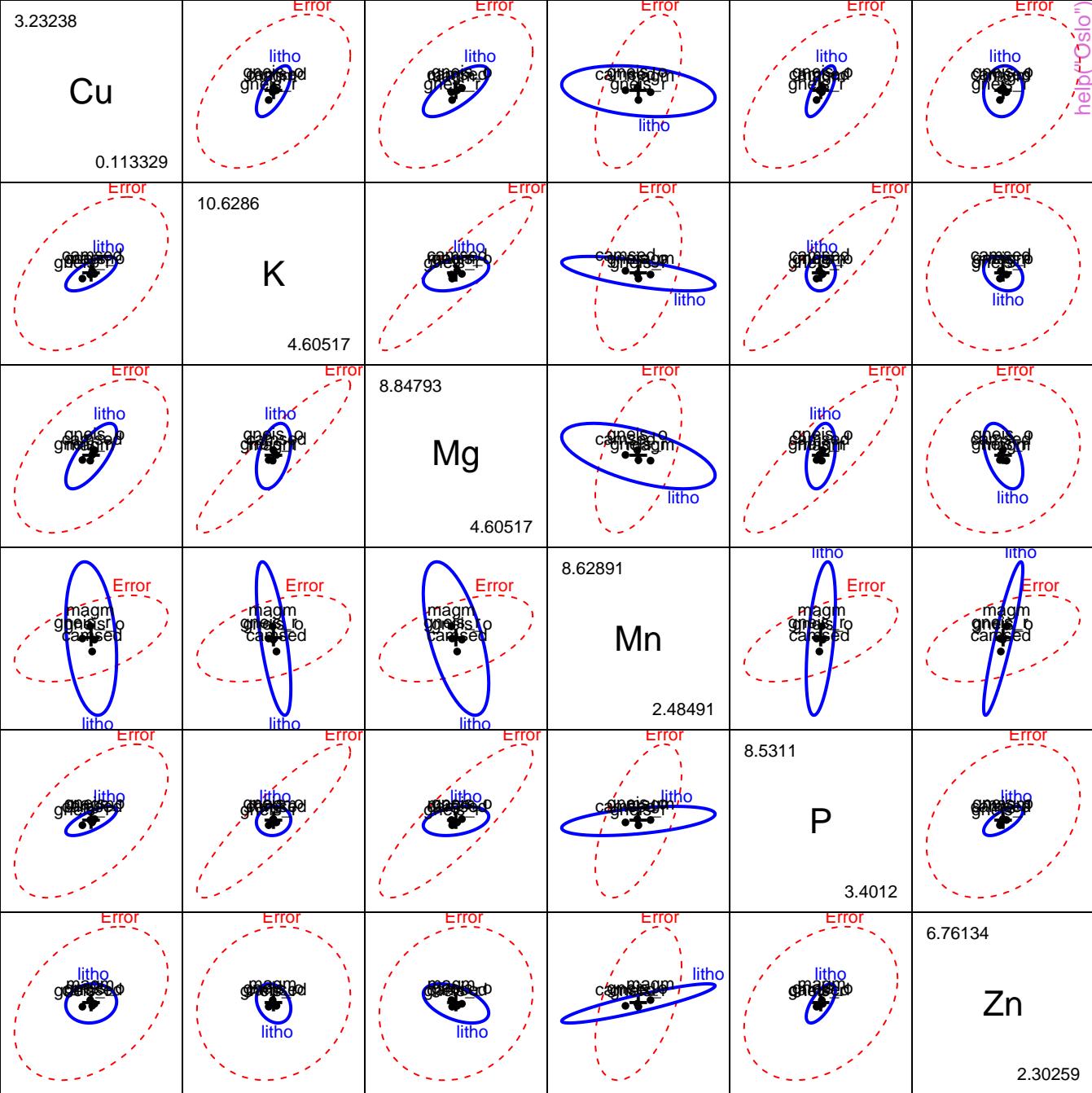
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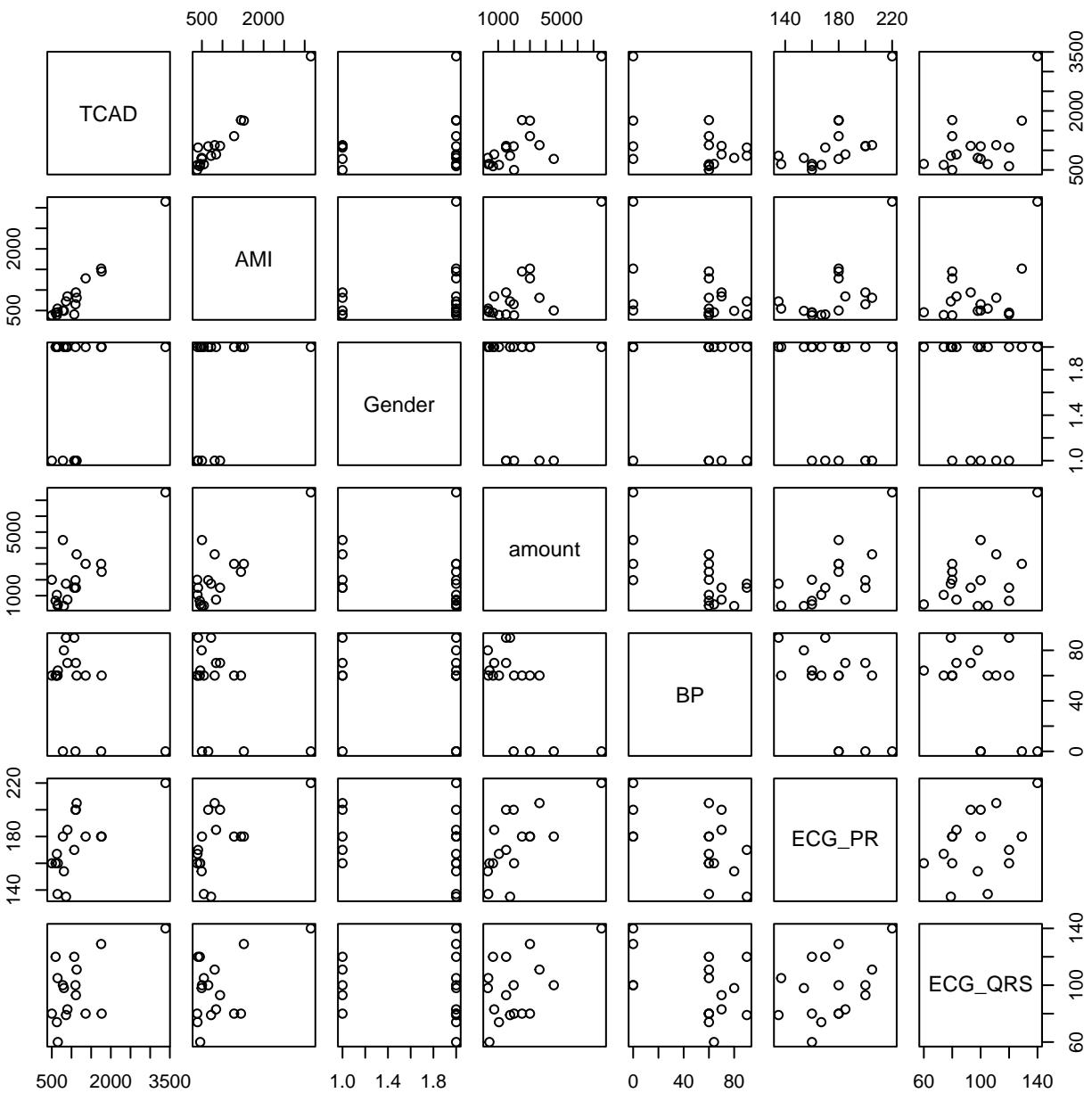


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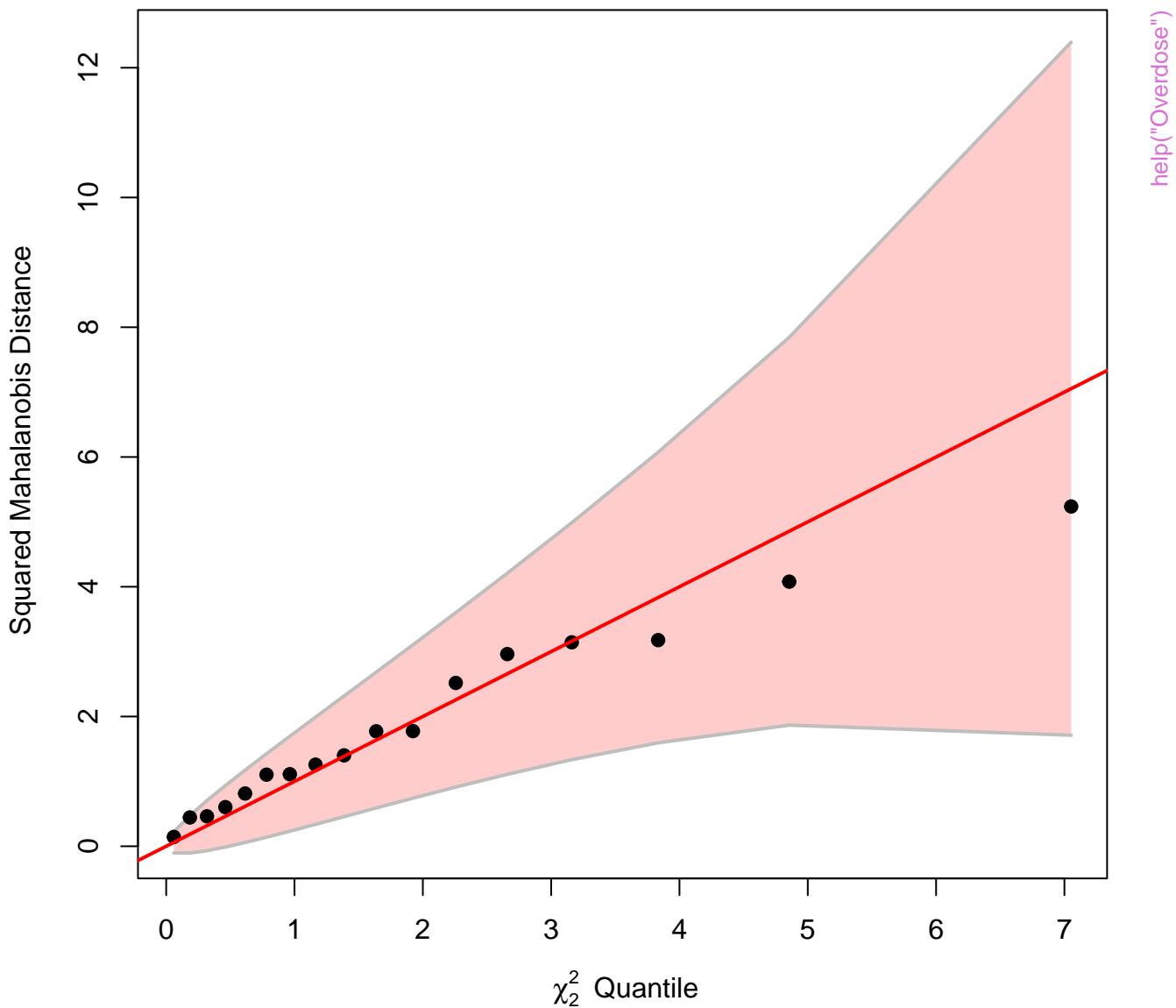




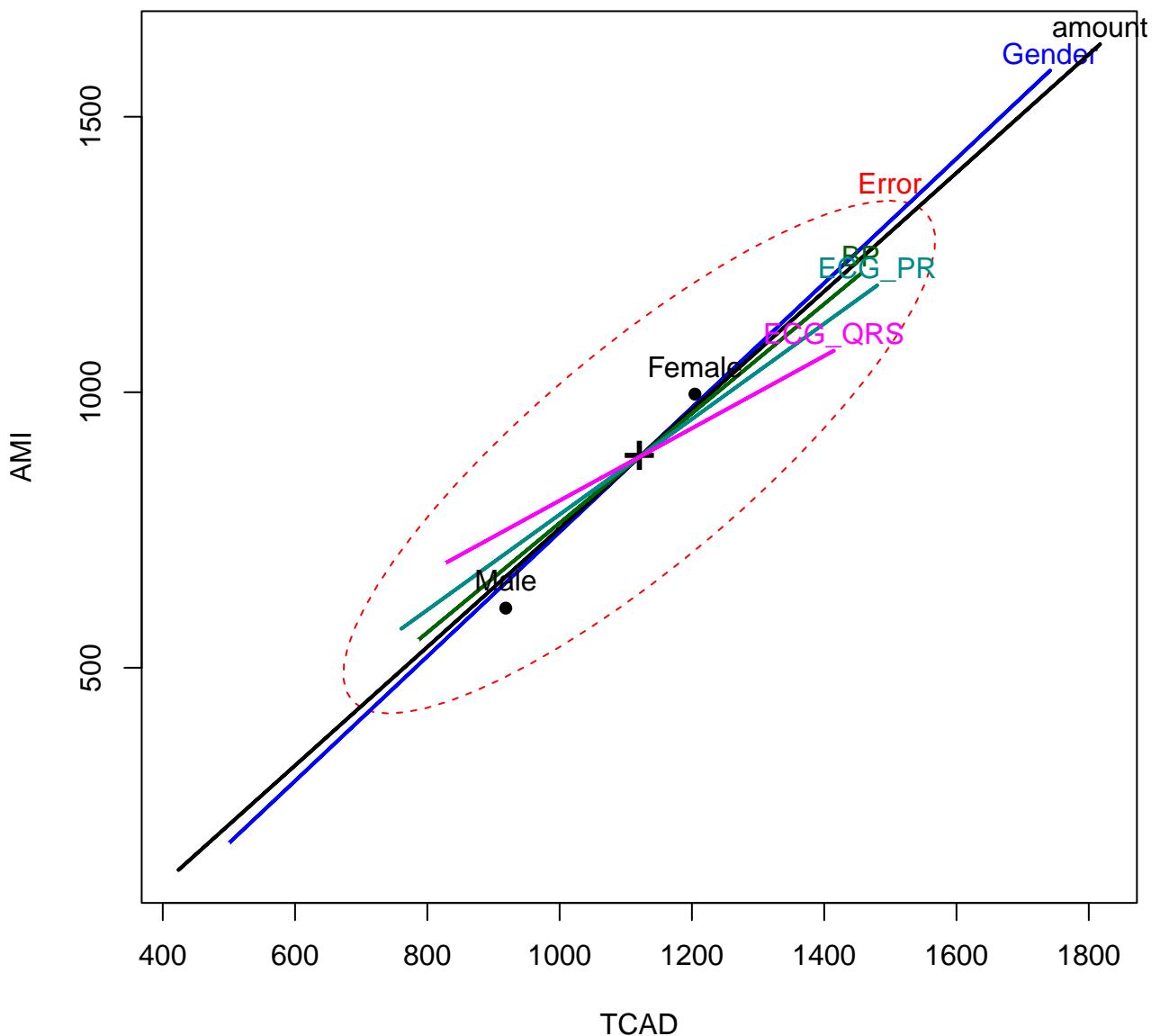


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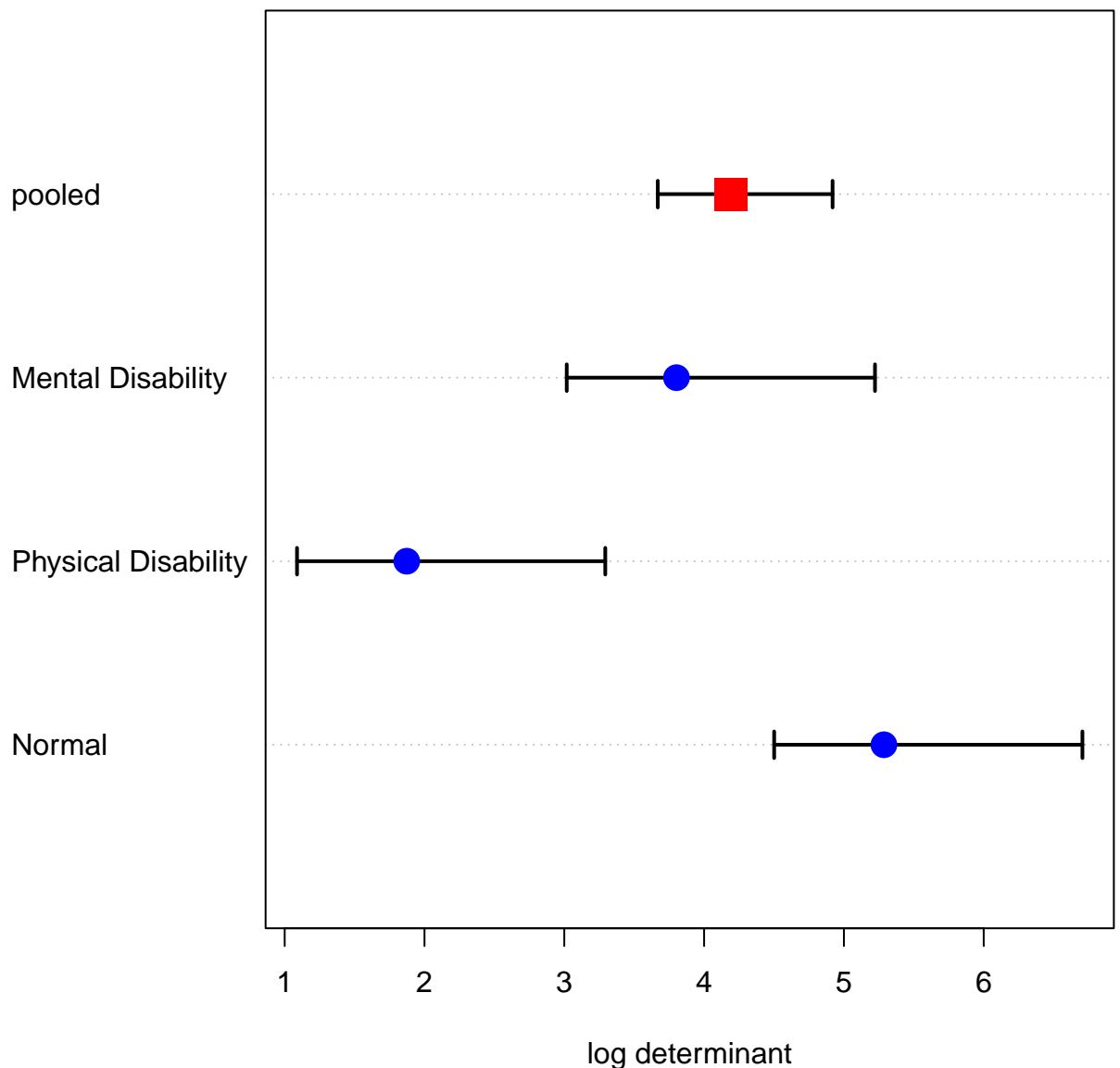
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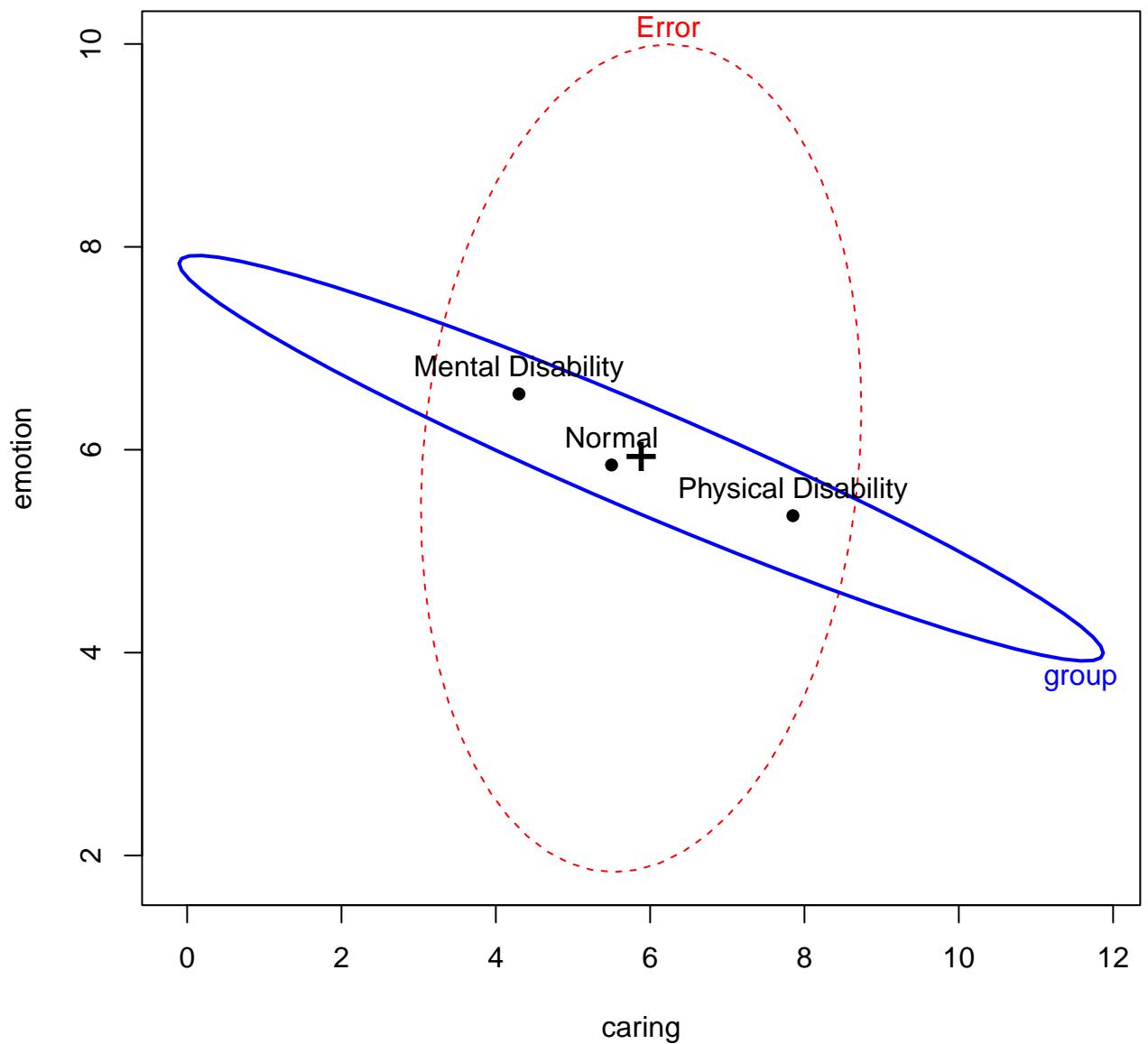


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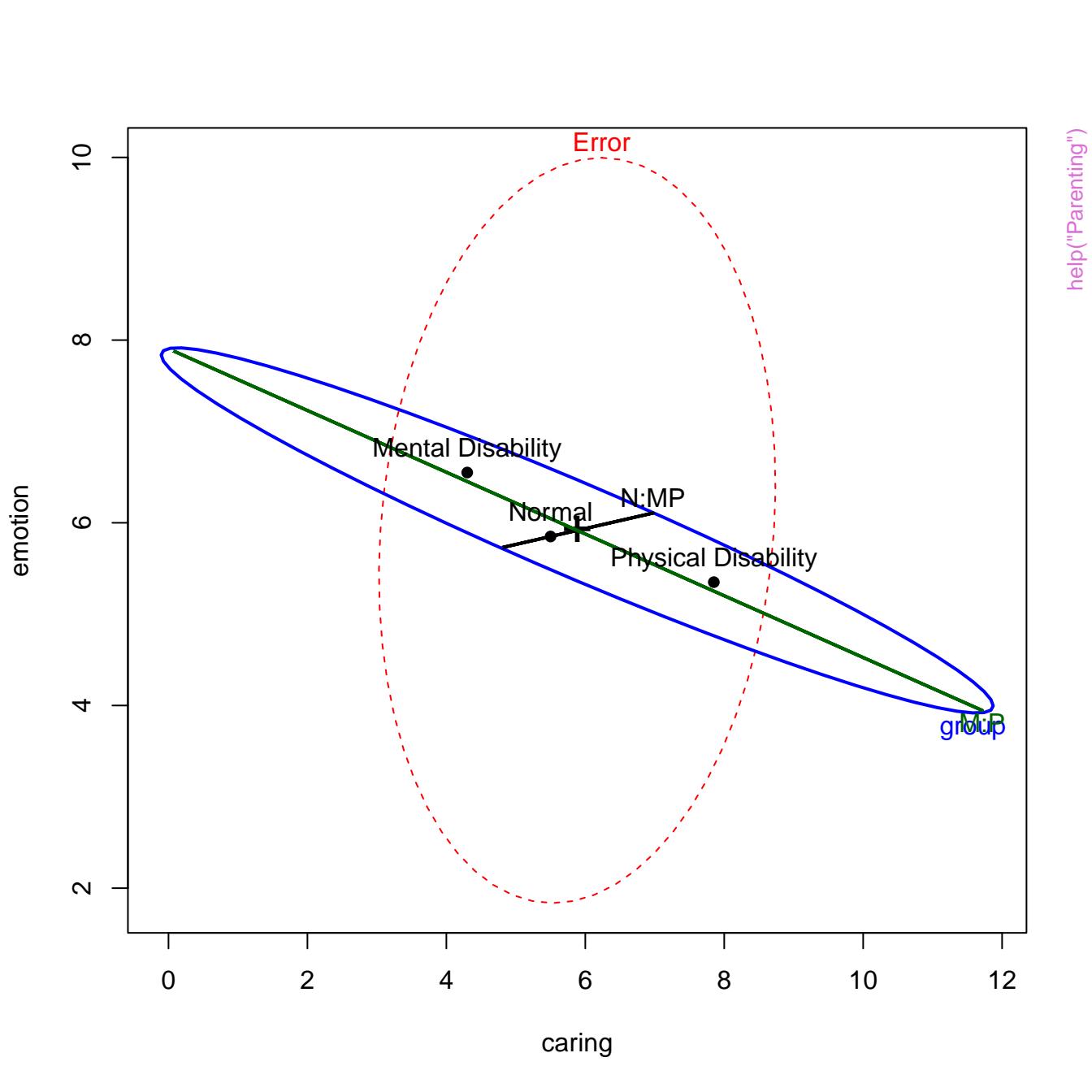


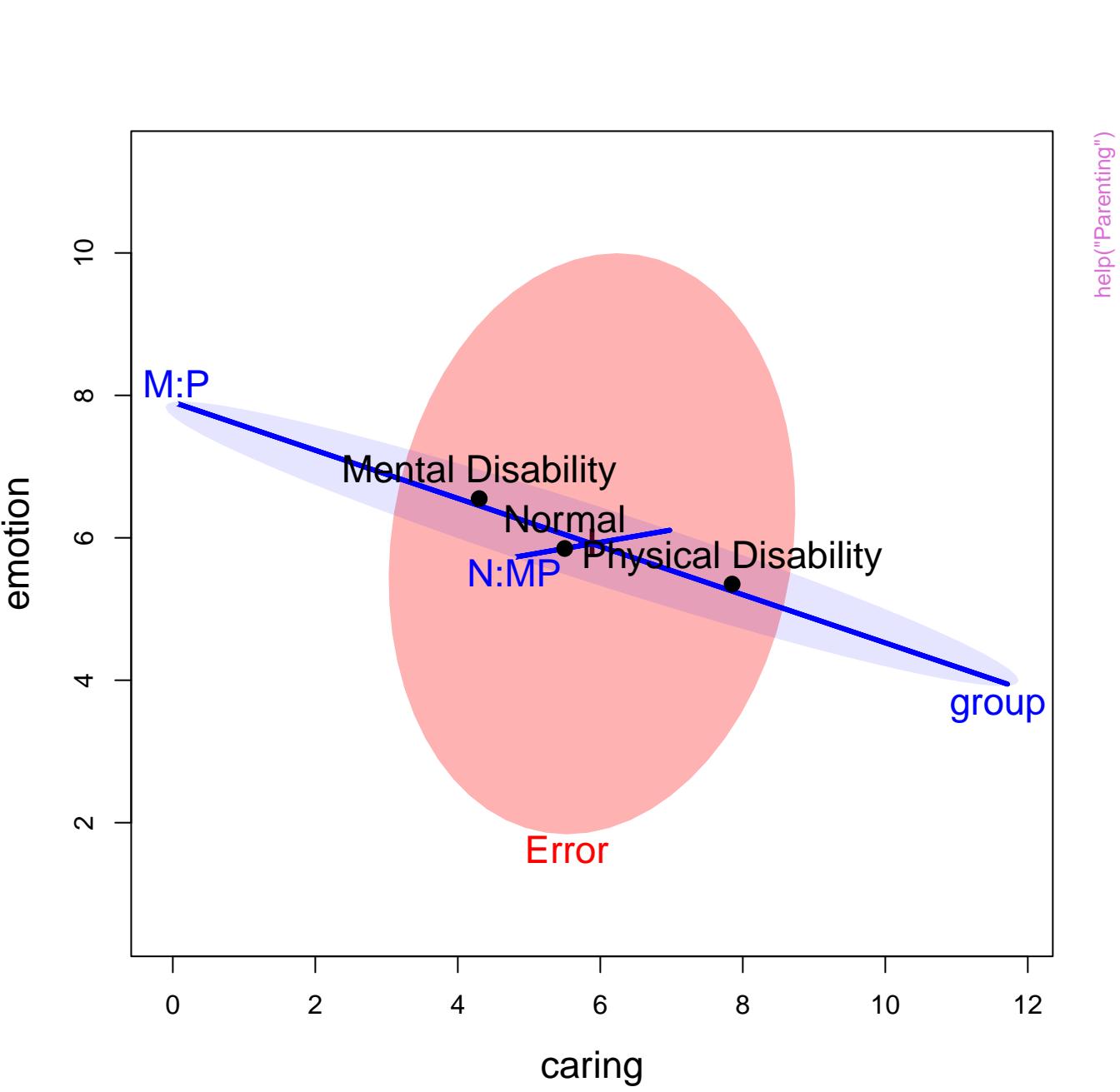
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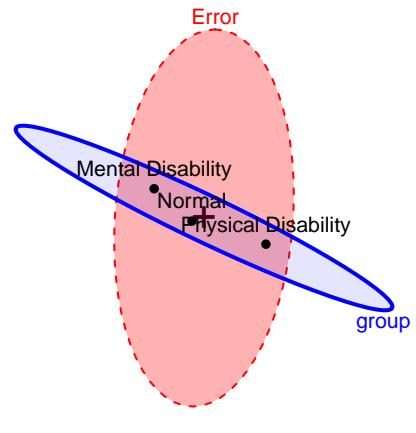
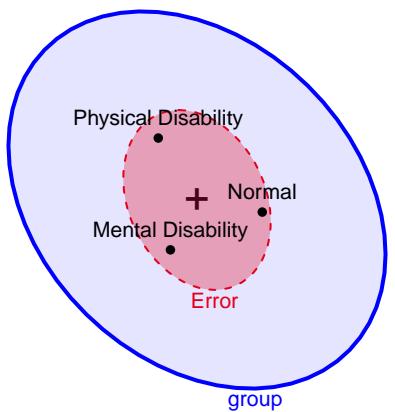
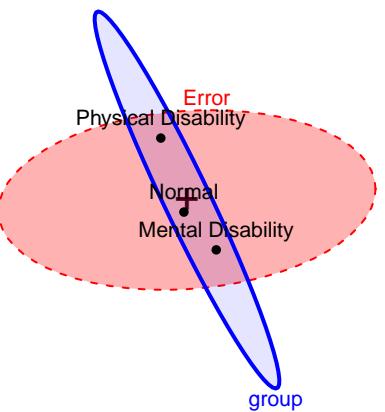




11

caring

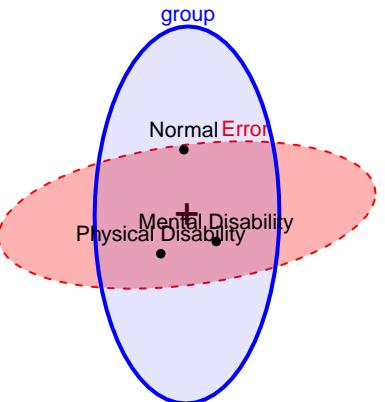
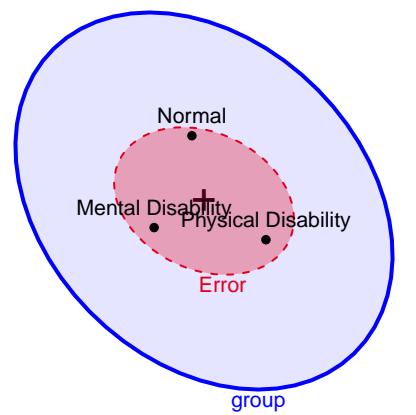
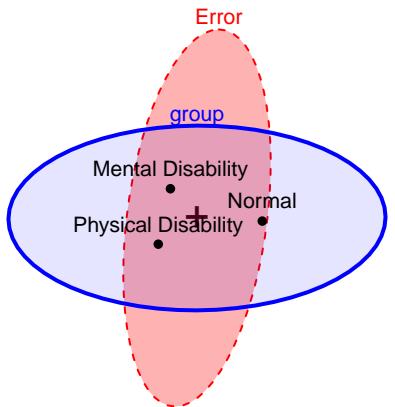
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13

emotion

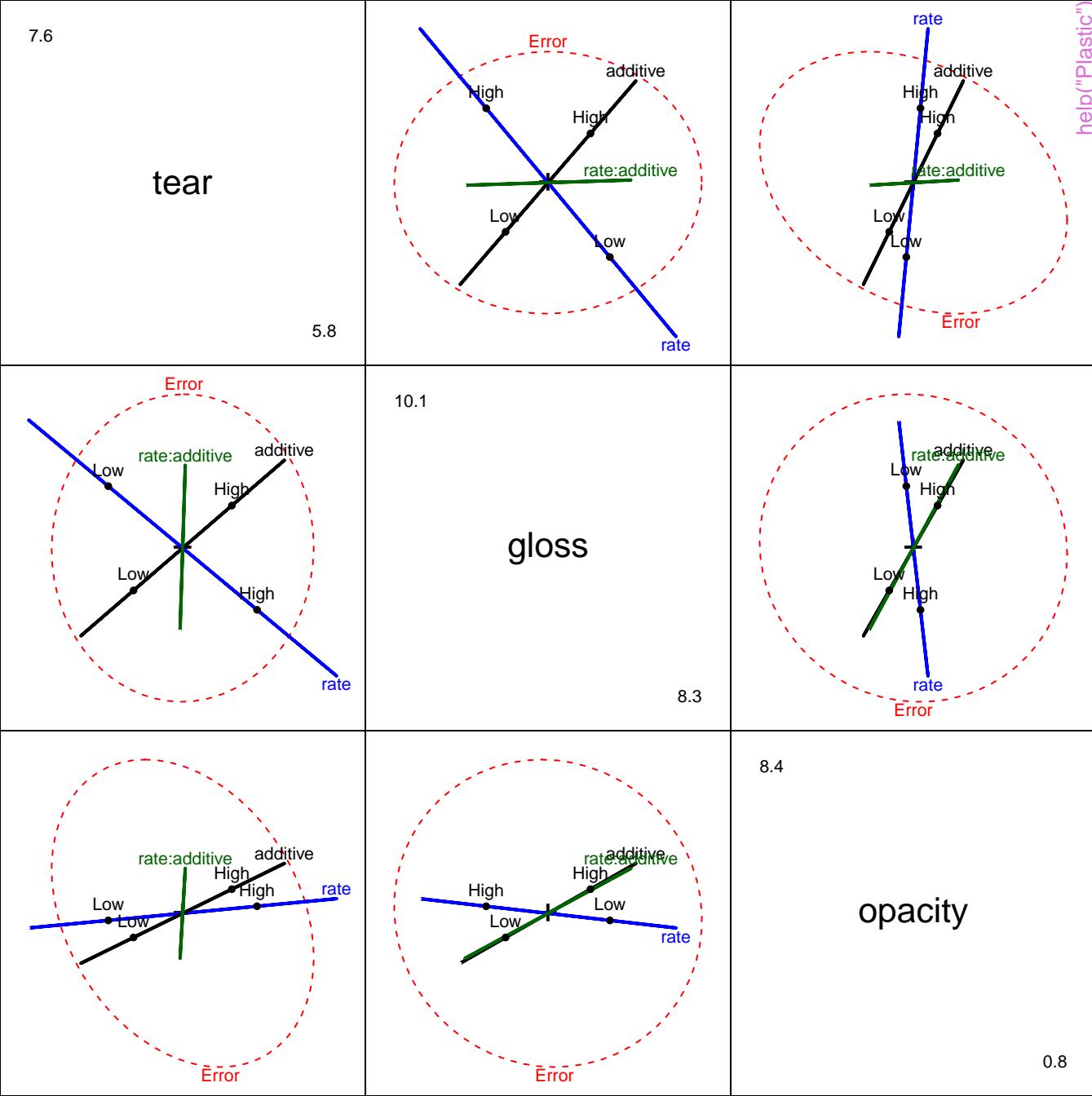
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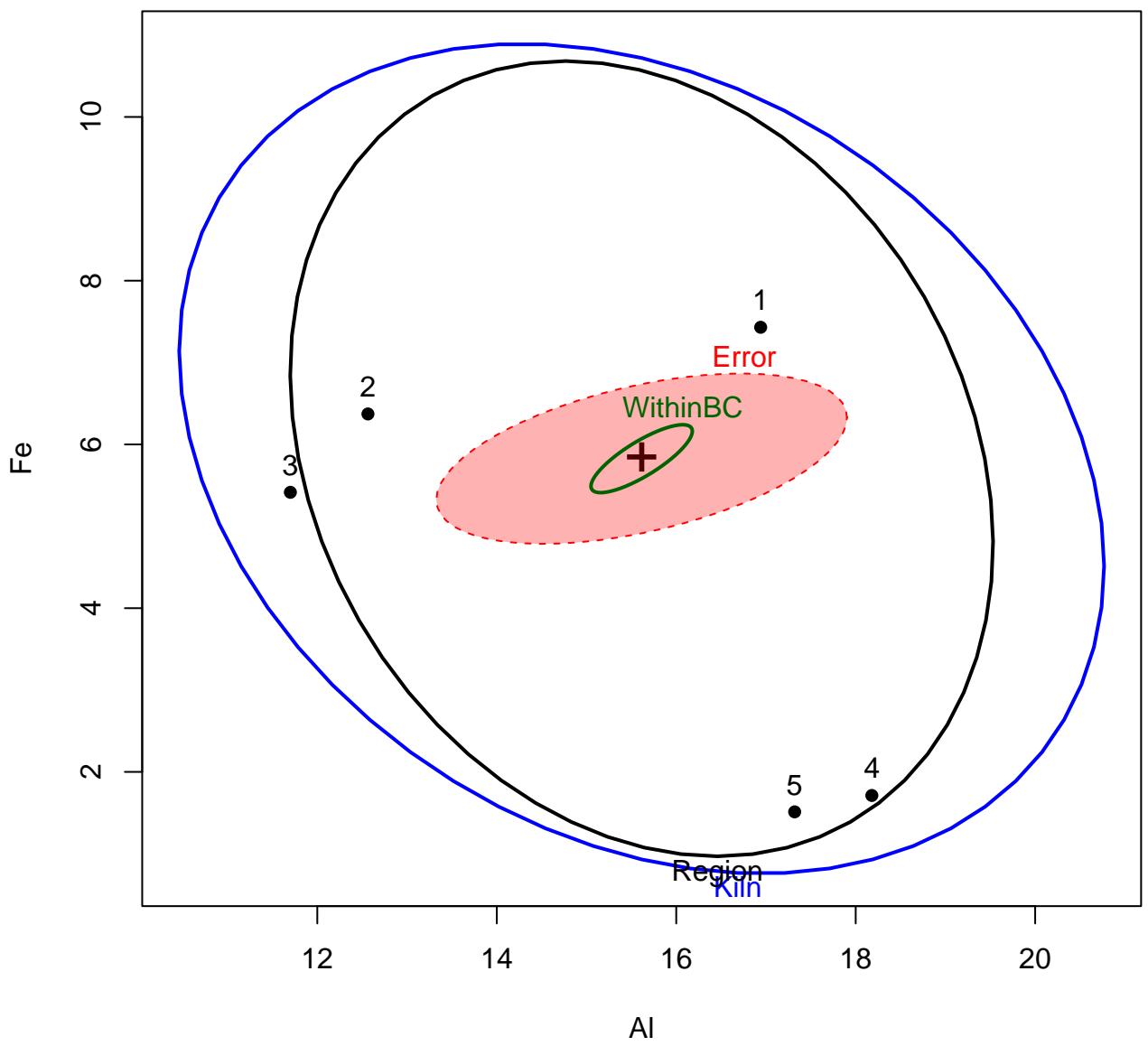


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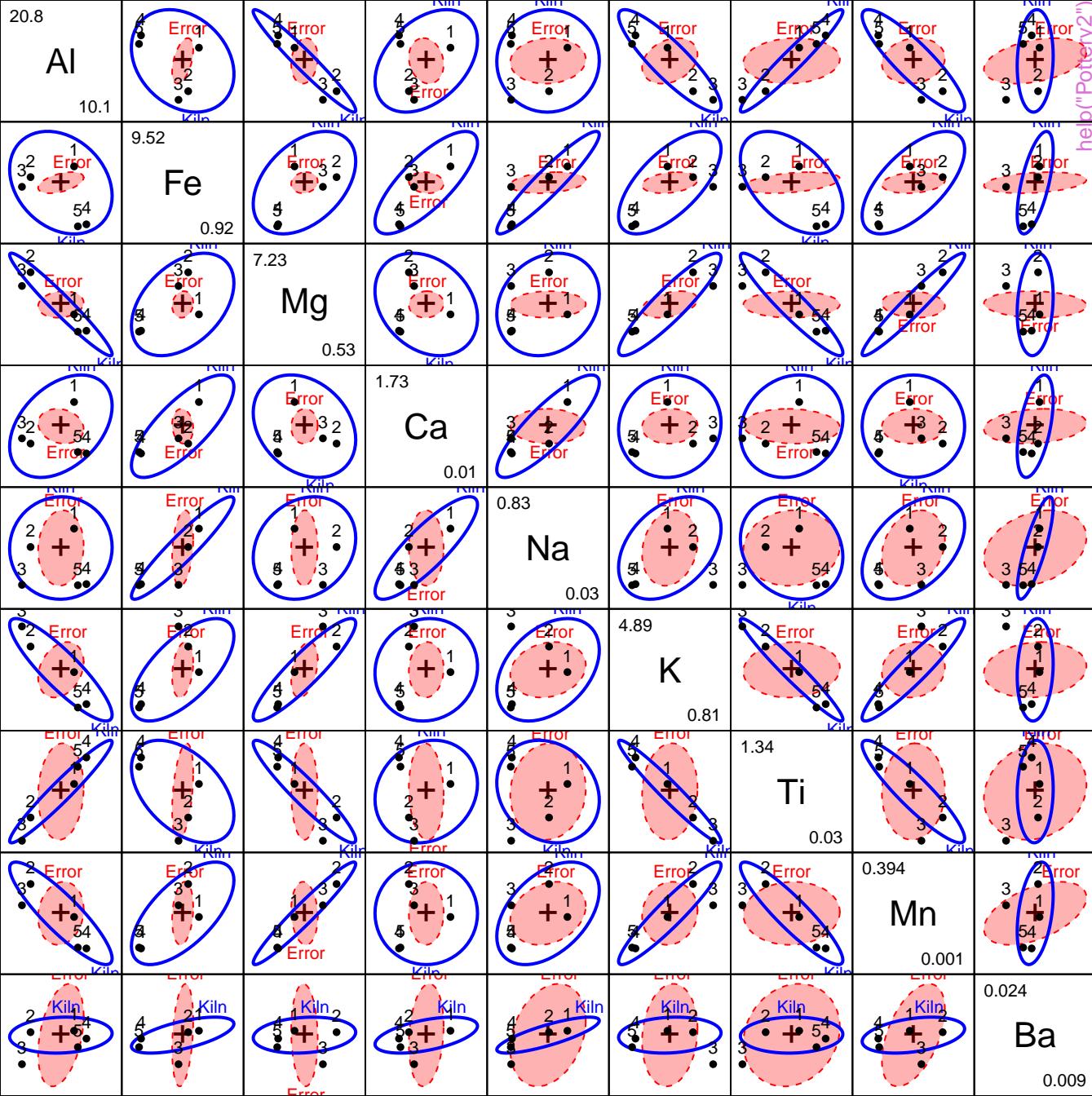
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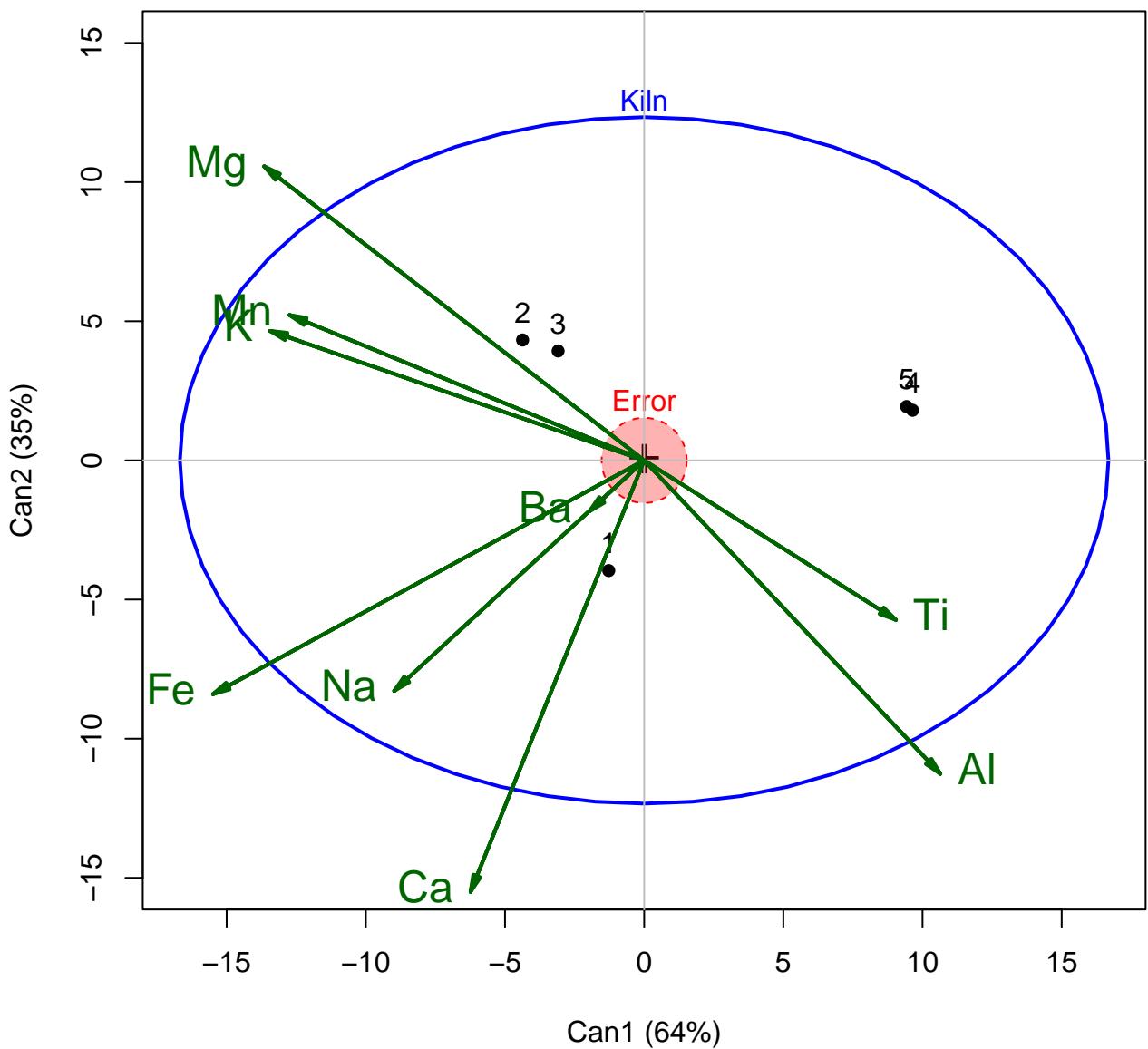




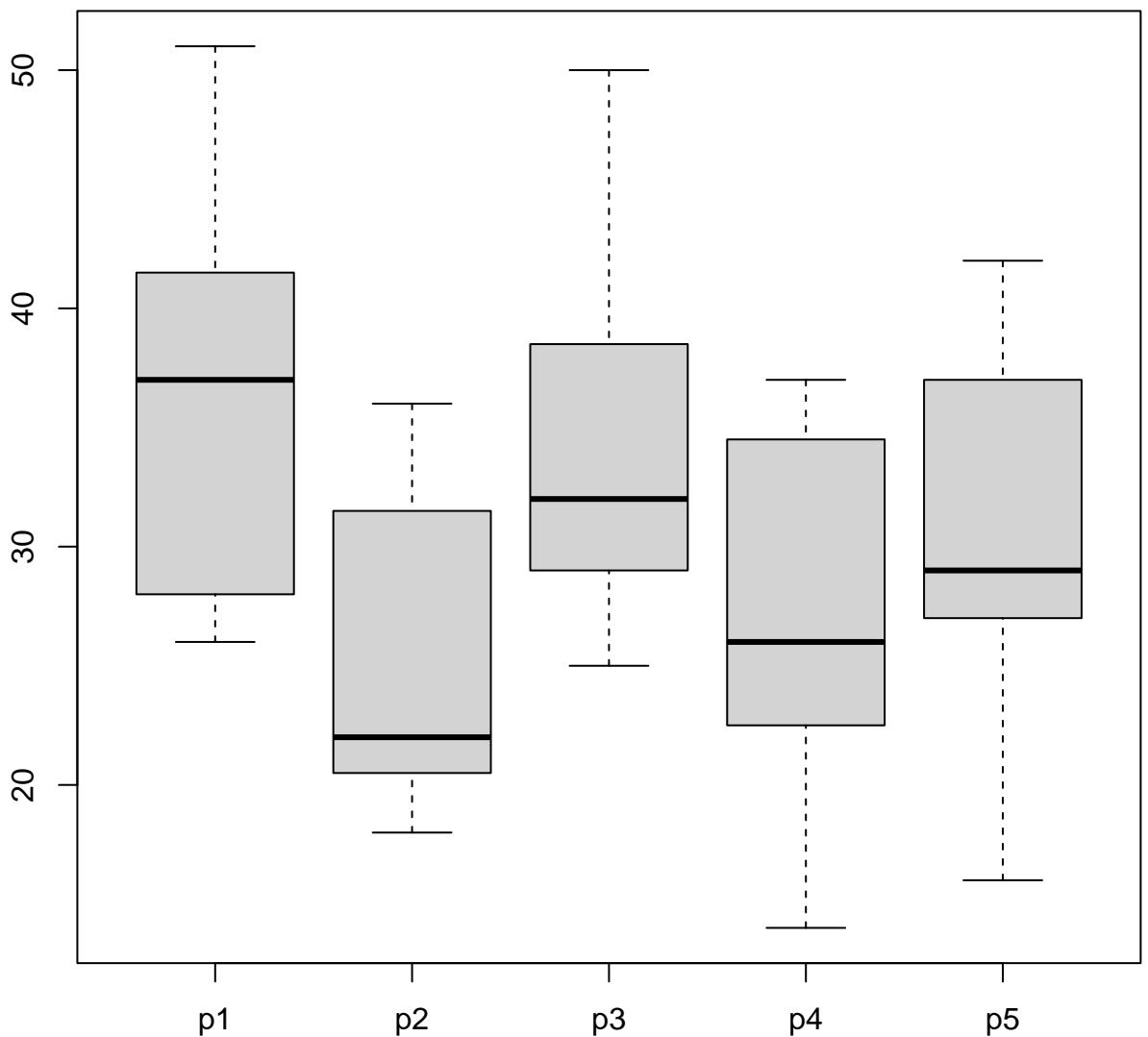
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help("Pottery2")



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help("Probe")

position2

5

0

-5

-10

-15

-5

0

5

10

15

20

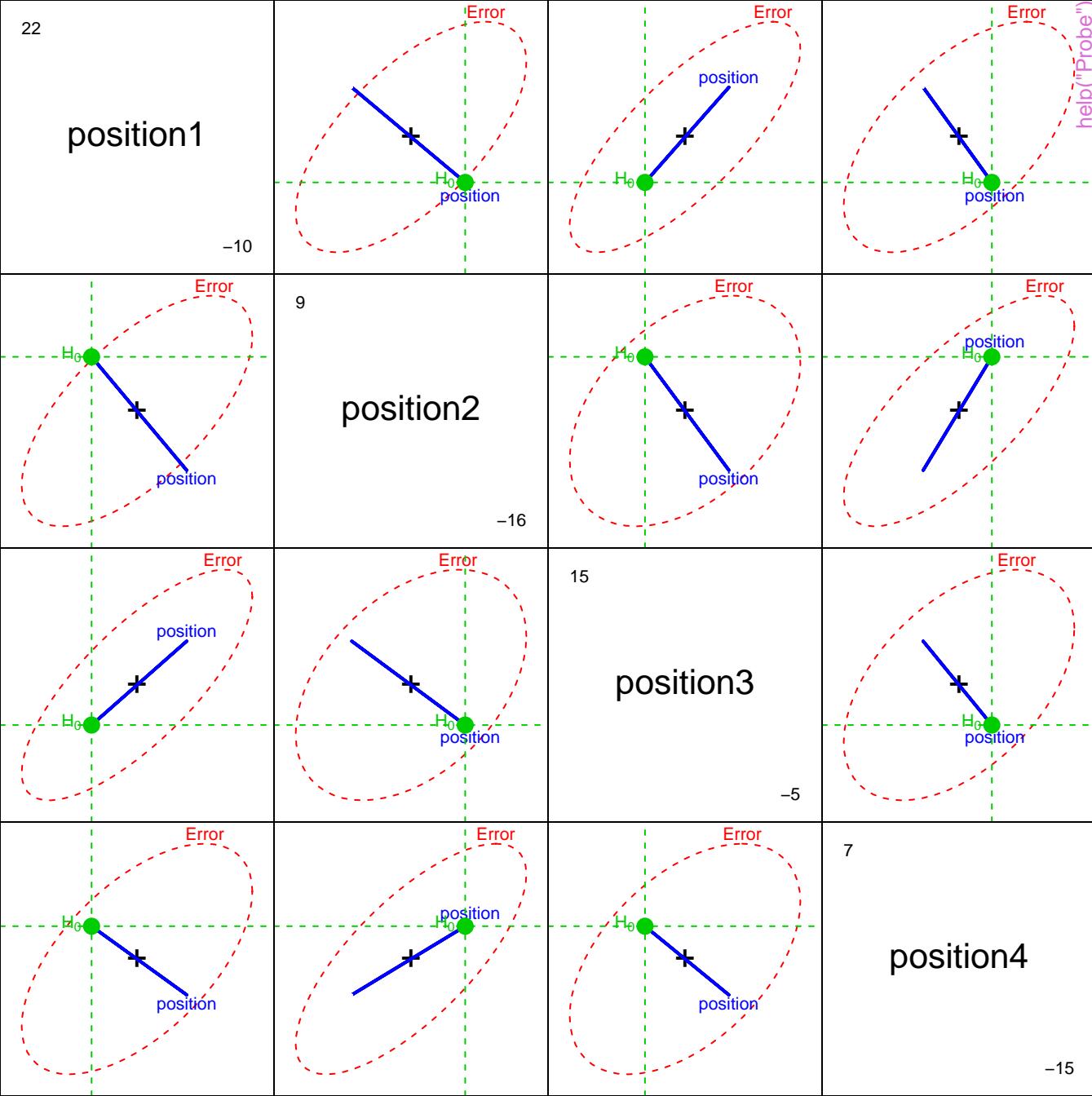
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Error

$H_0$



position



help("Probe")

positionAdjNoun

30  
20  
10  
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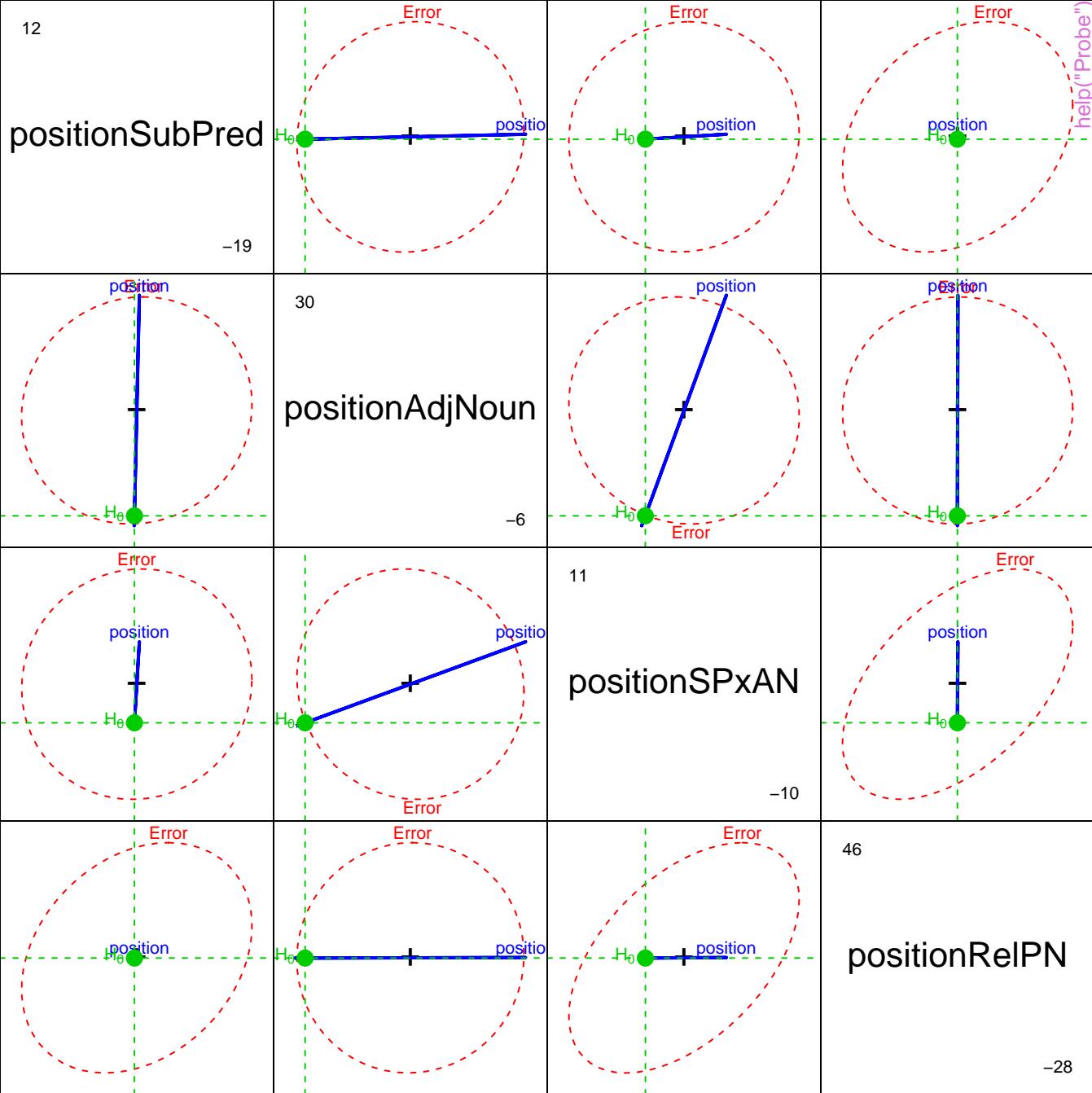
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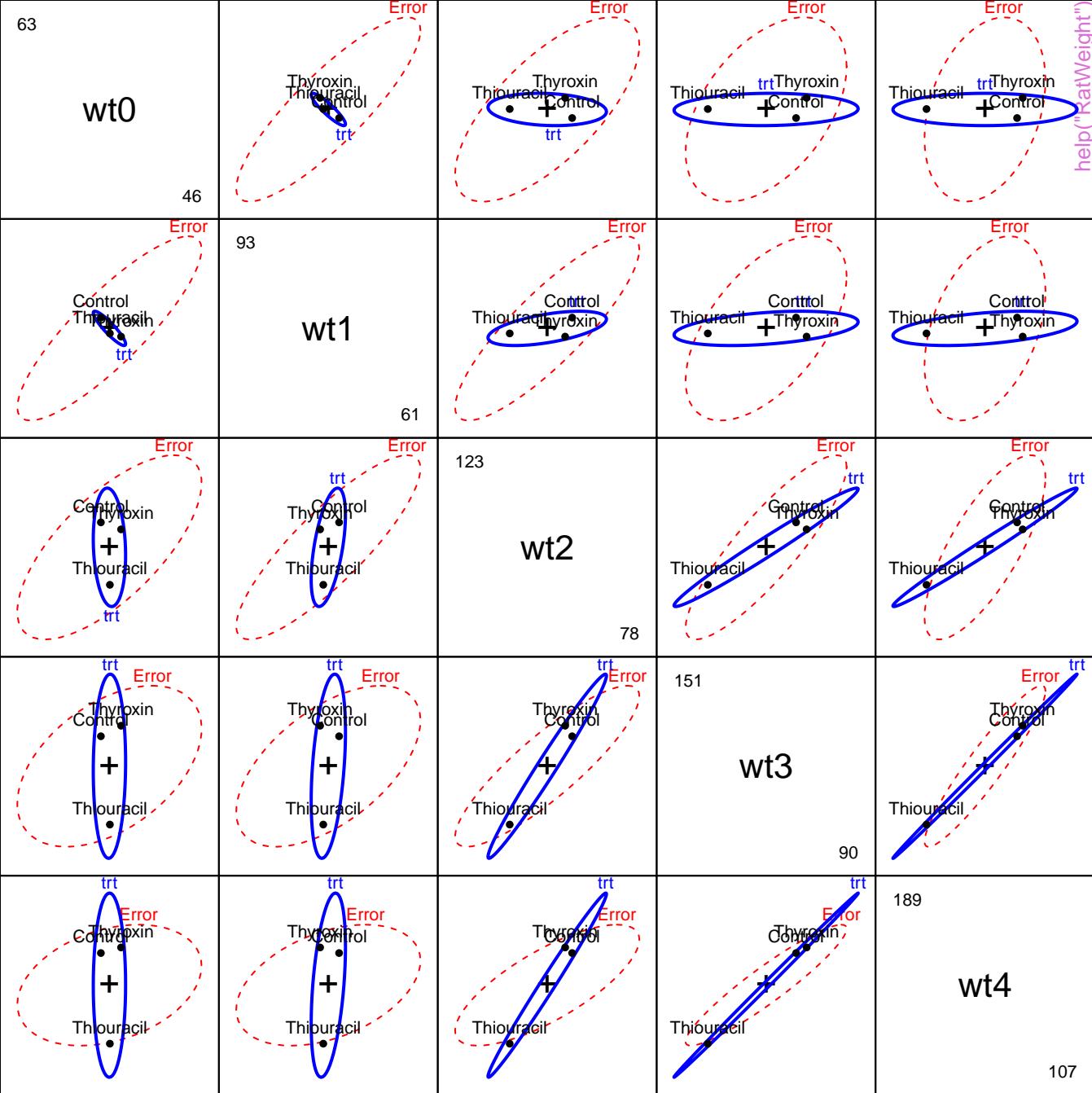
positionSubPred

position

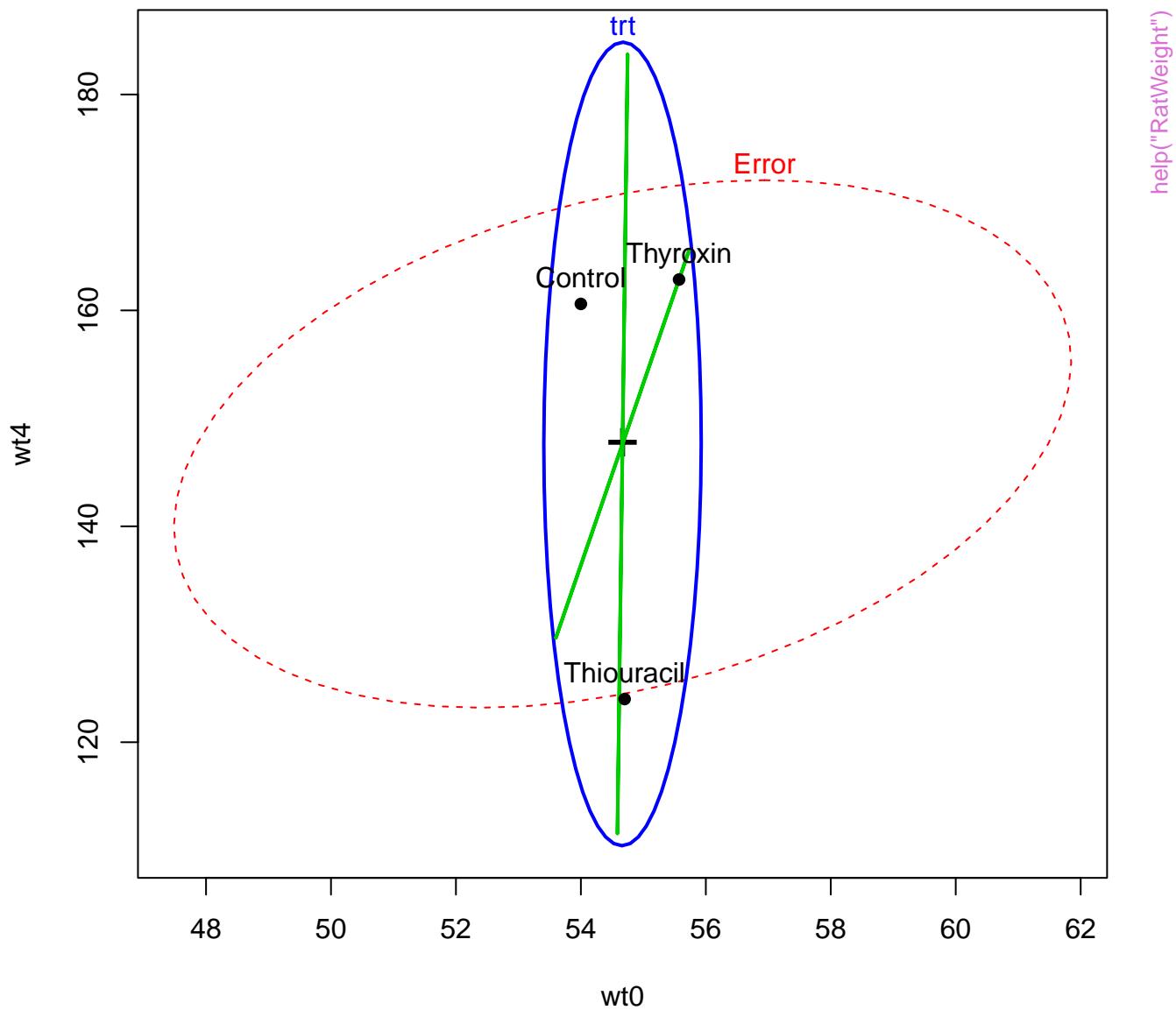
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$H_0$

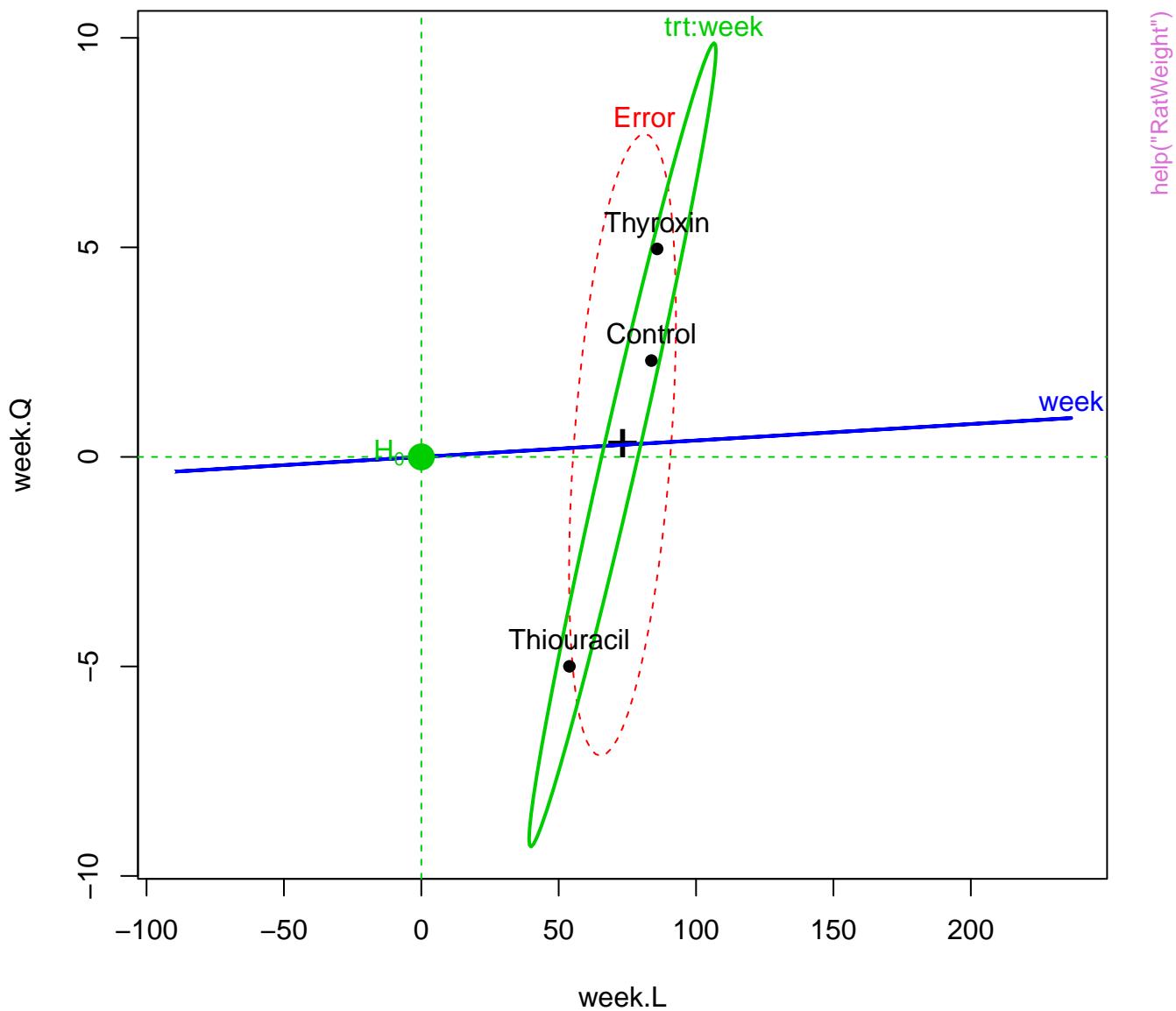




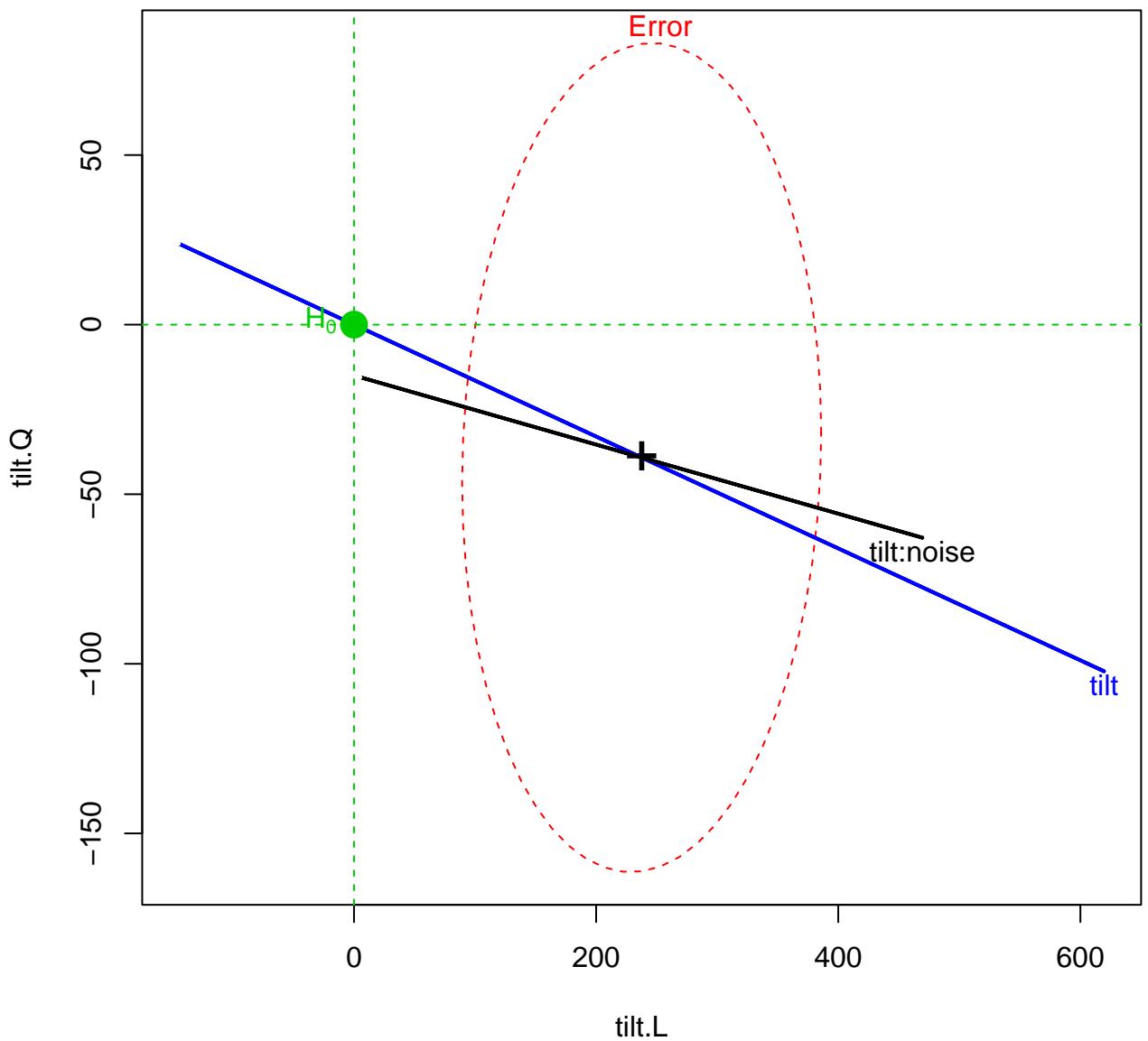
## Rat weight data, Between-S effects



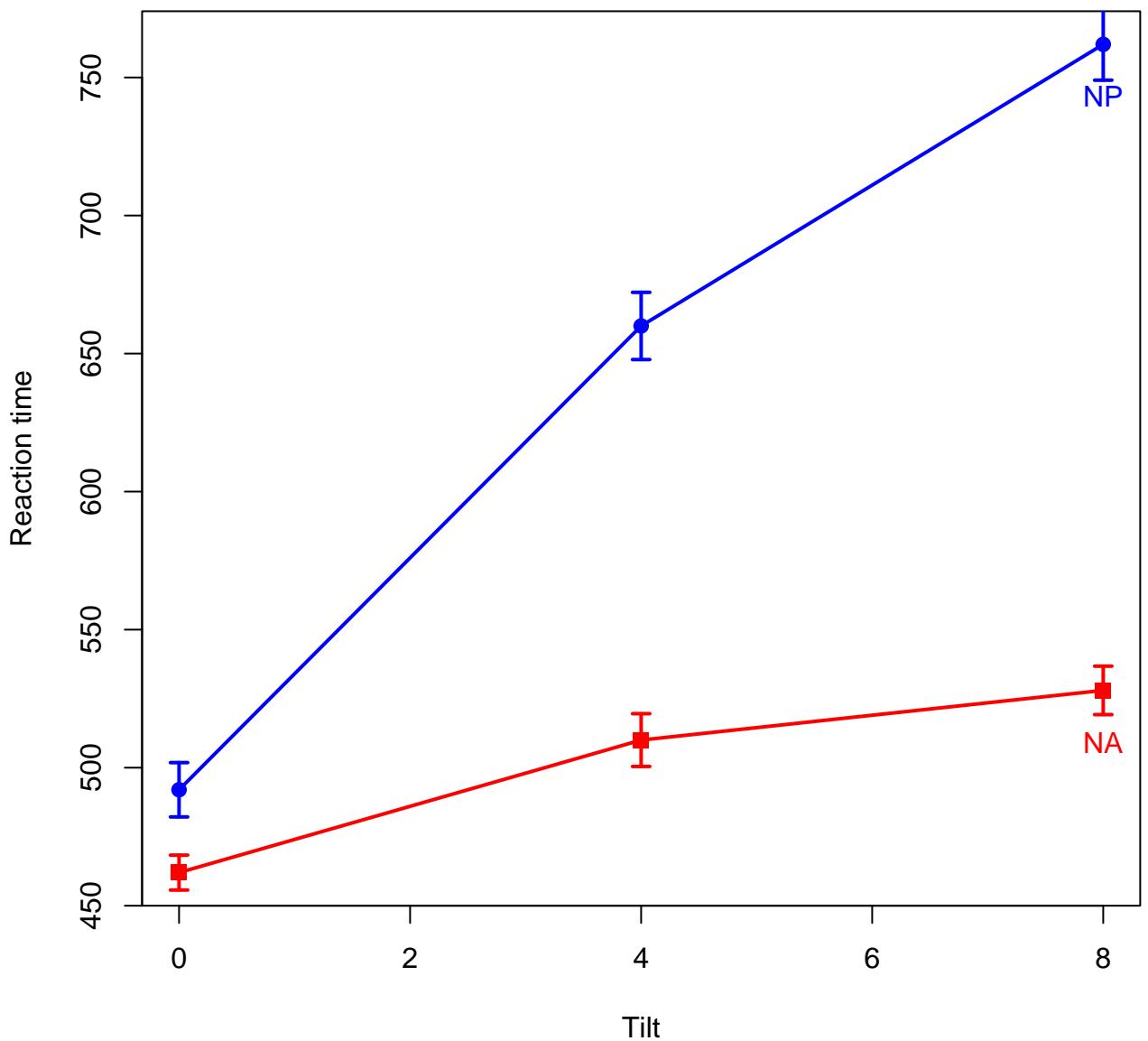
# Rat weight data, Within-S effects



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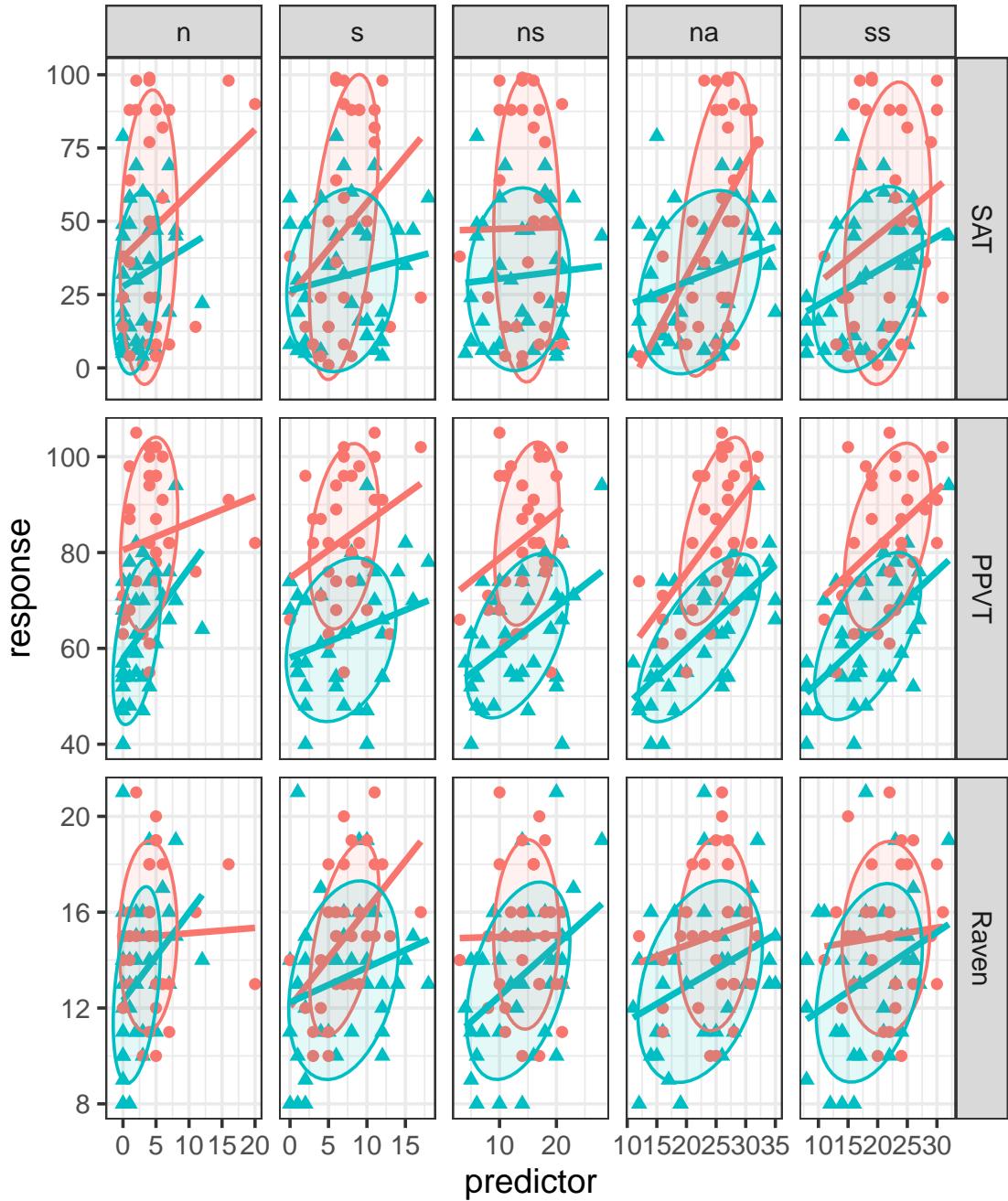


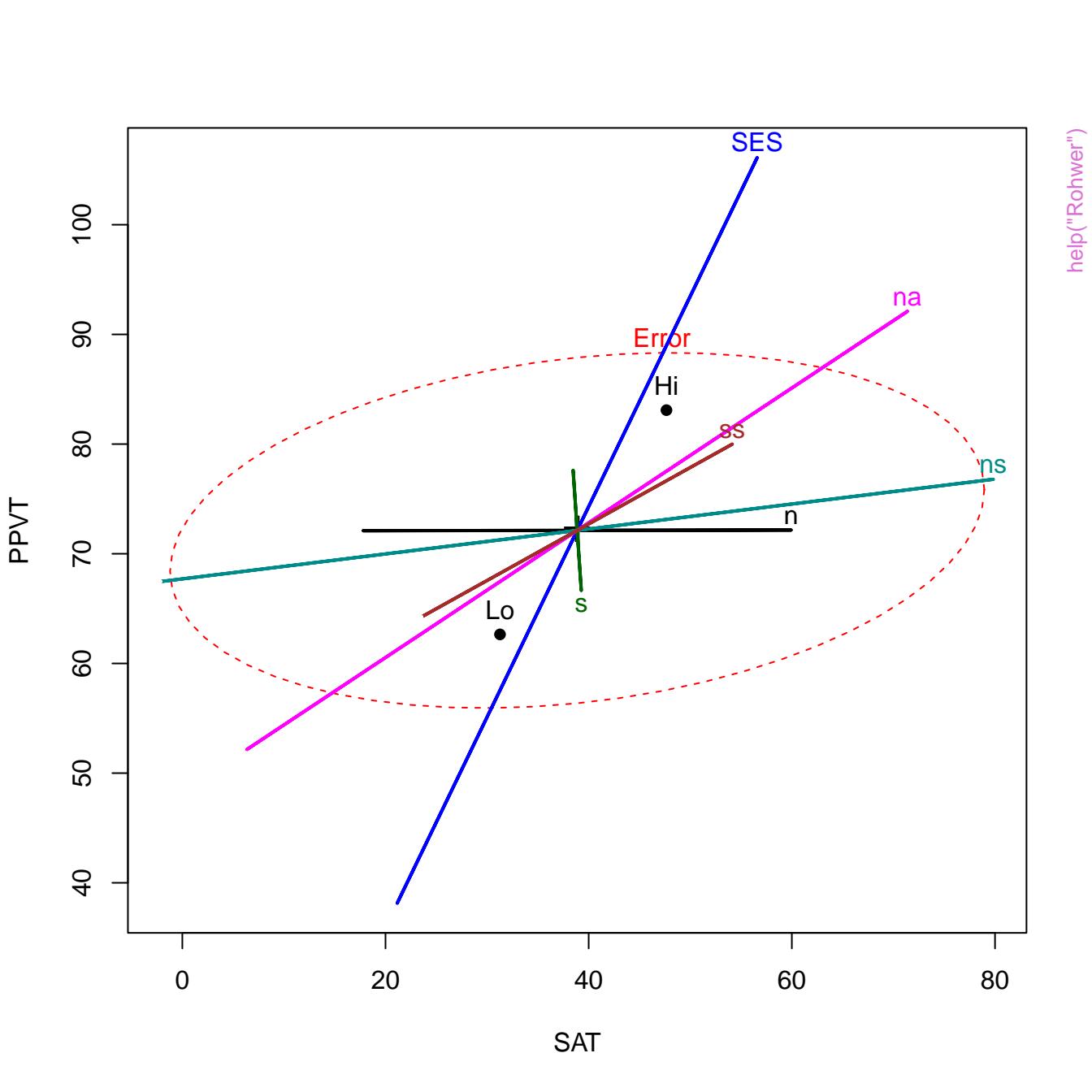
## Reaction Time data



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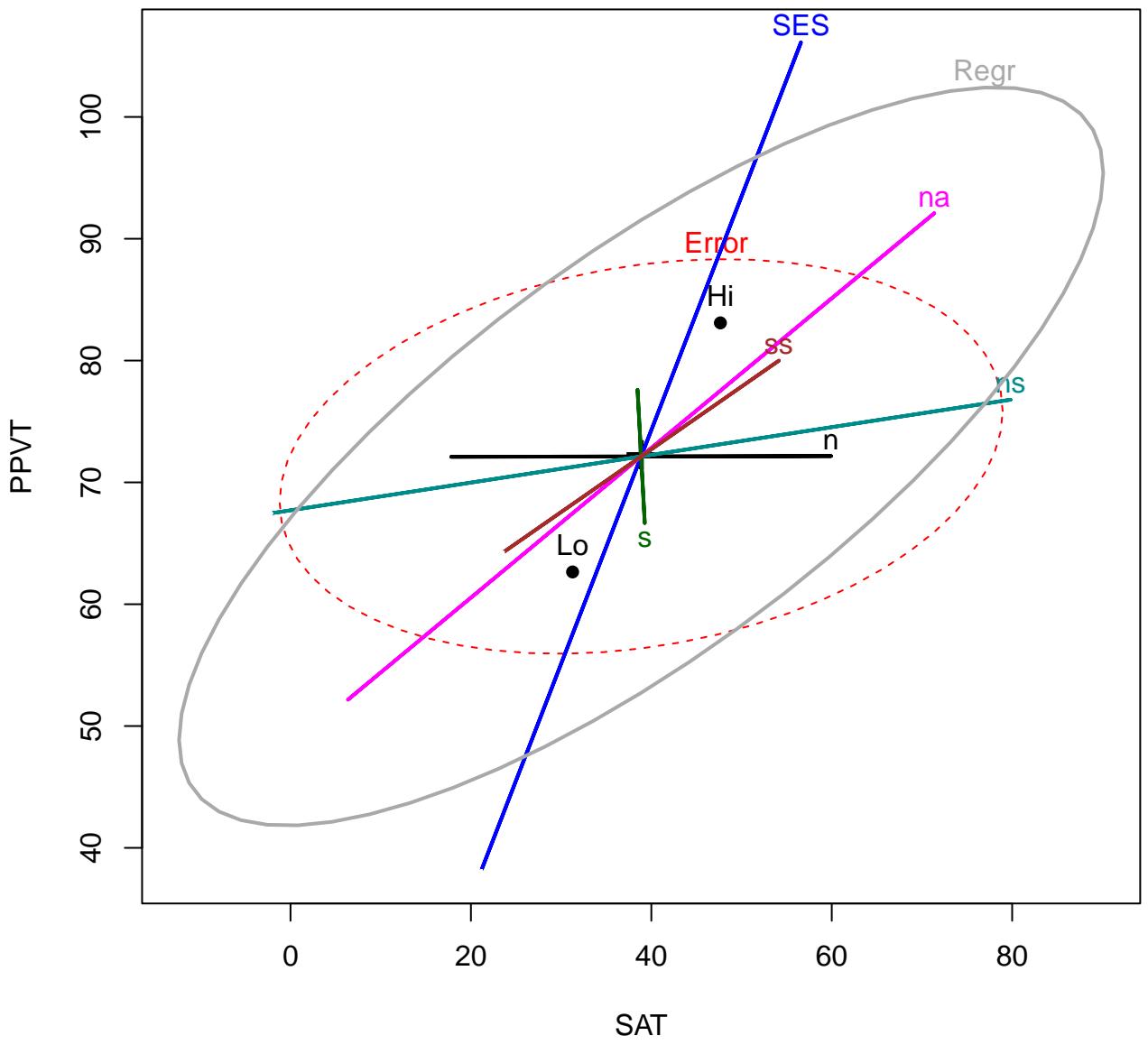
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help("Rohwer")

PPVT

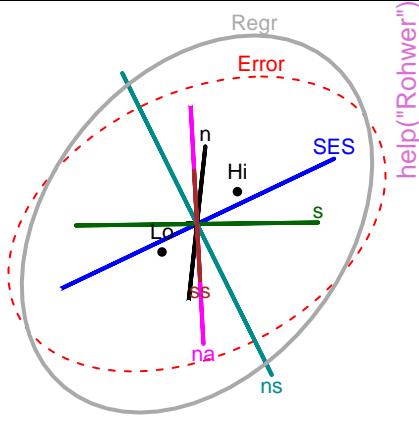
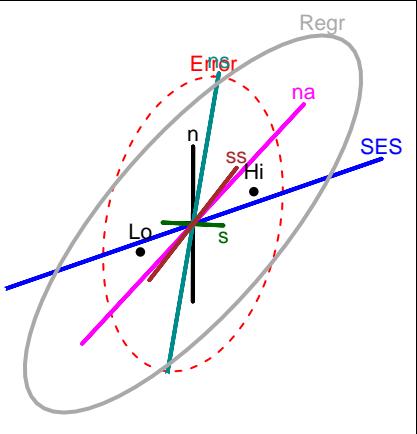


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SAT

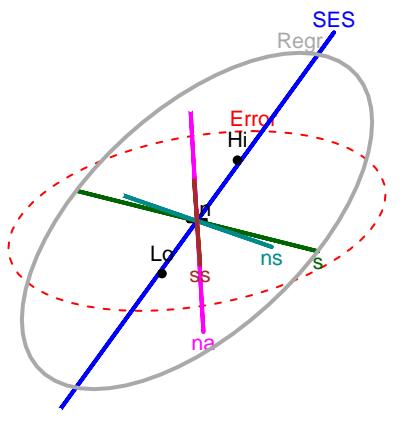
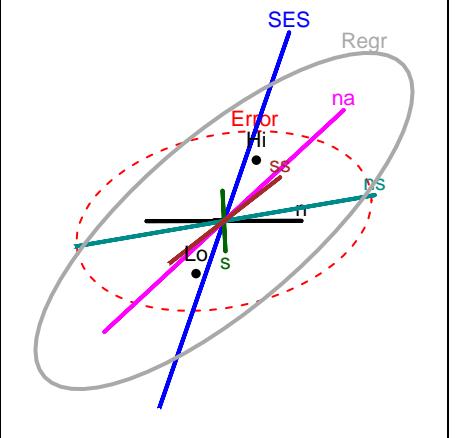
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105

PPVT

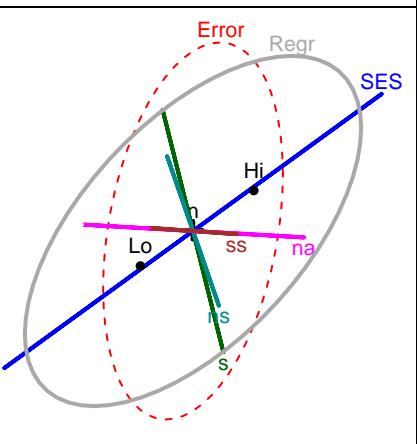
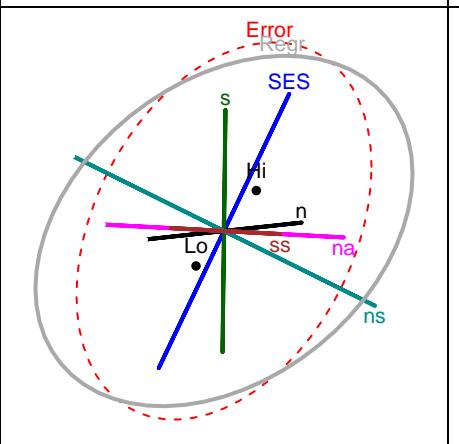
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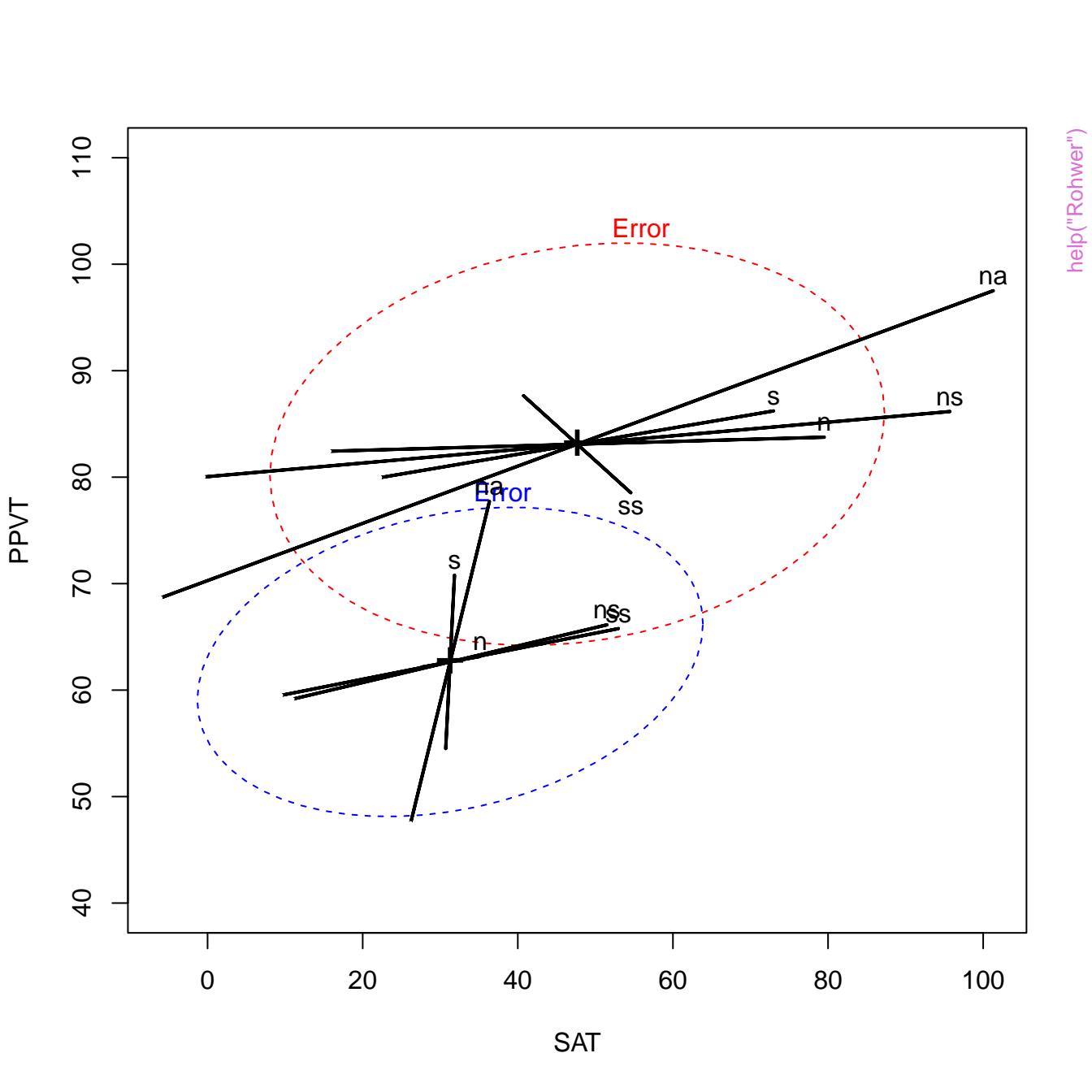
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Raven

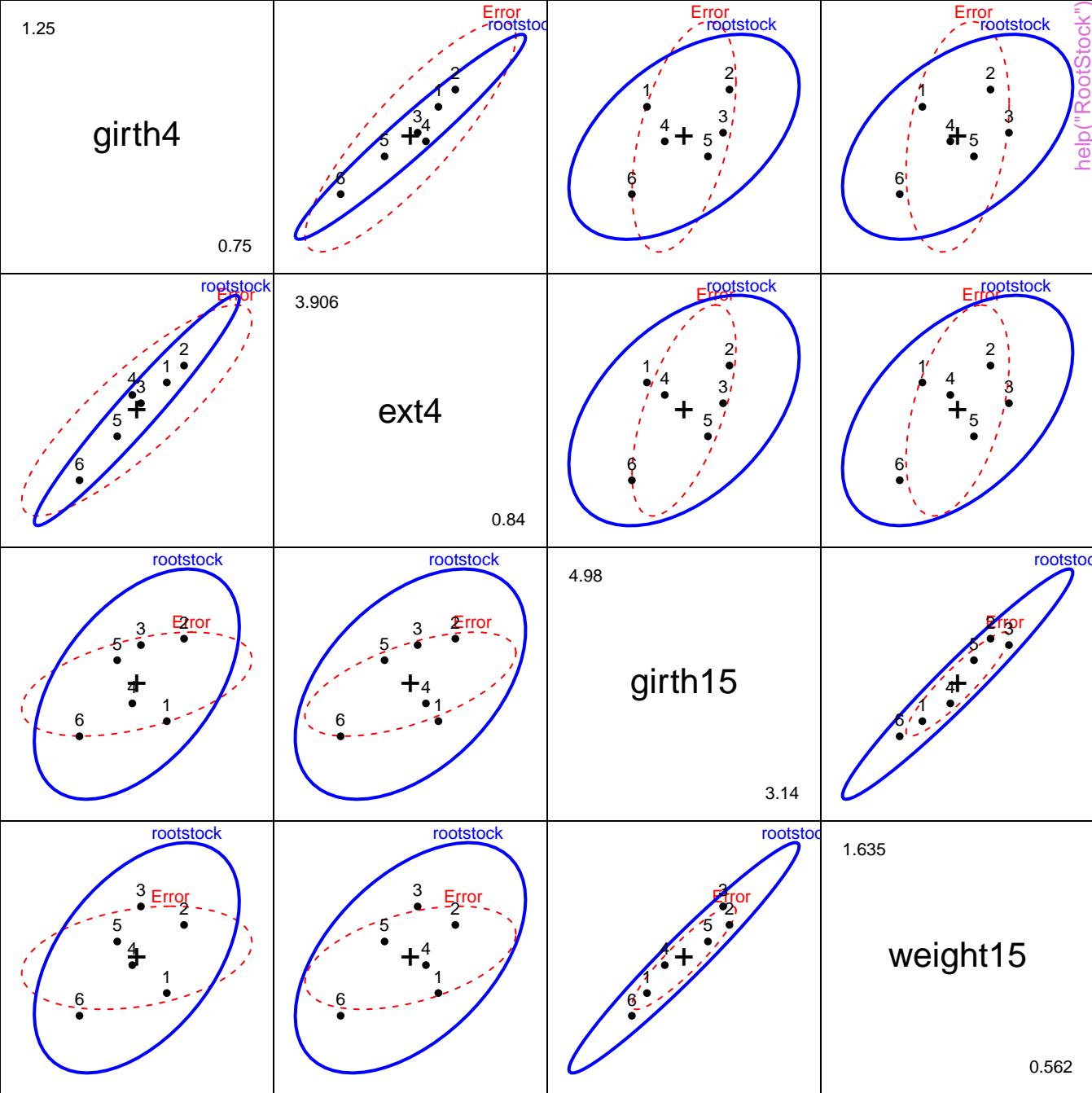
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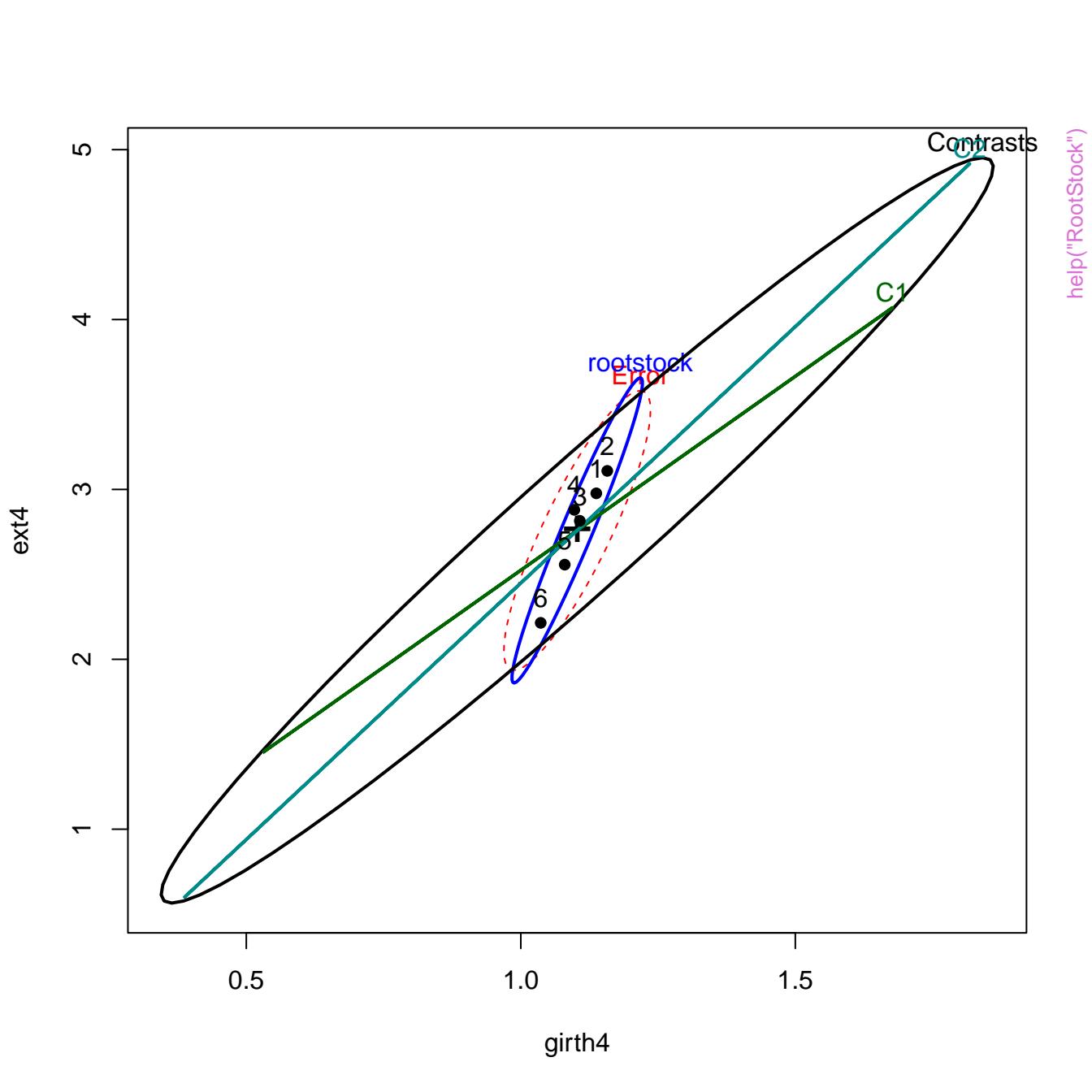


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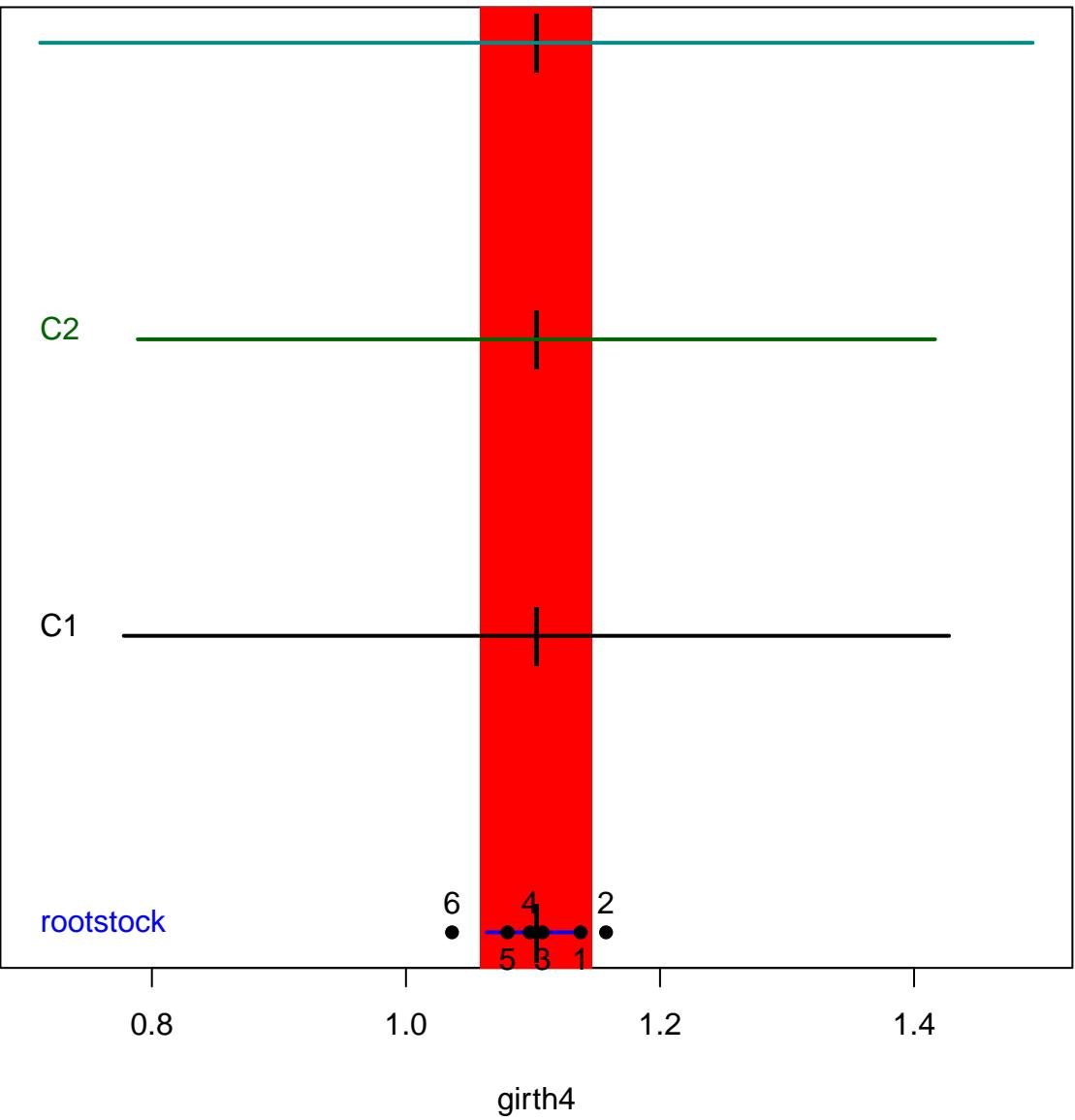
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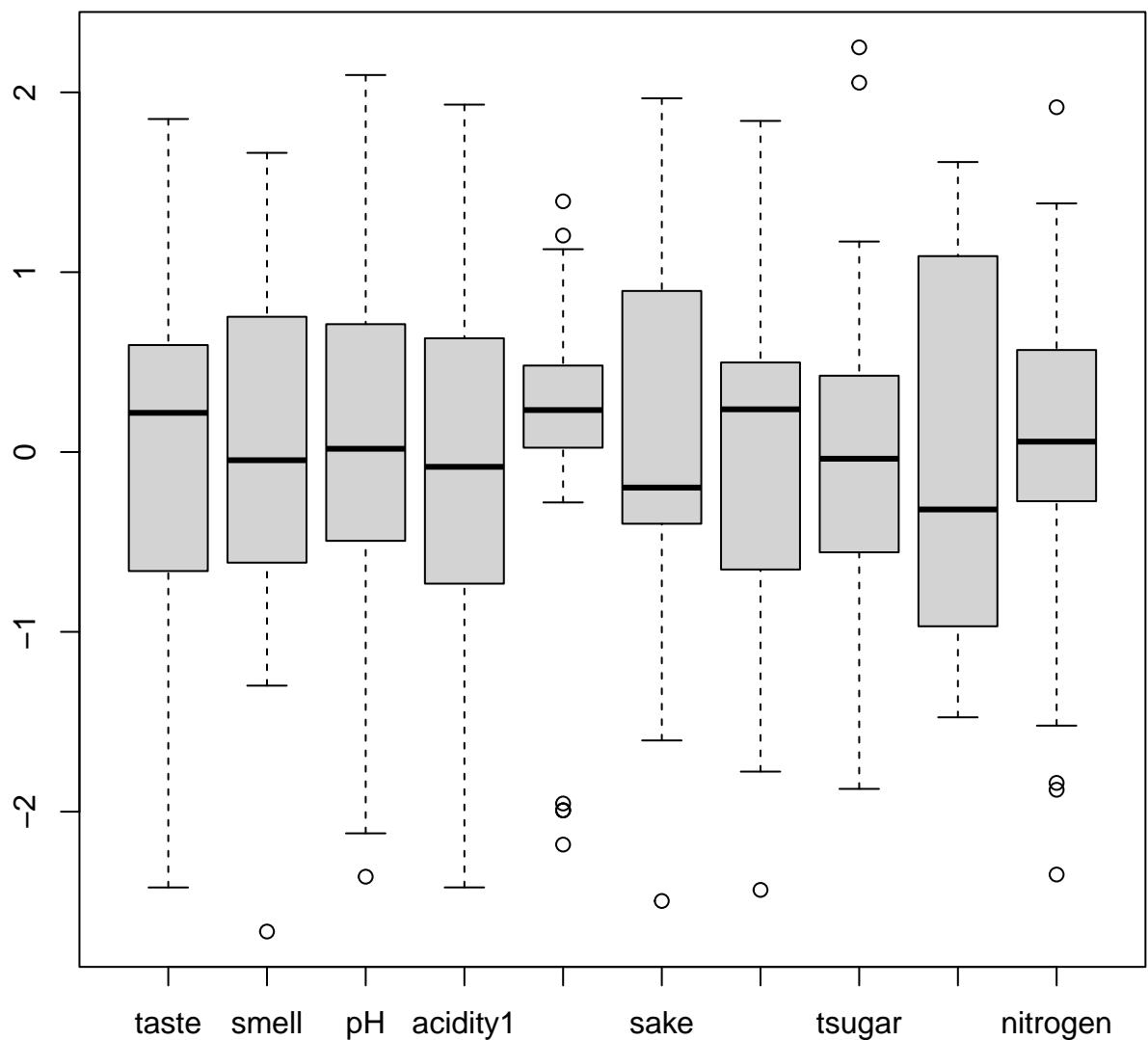
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## Terms and Hypotheses

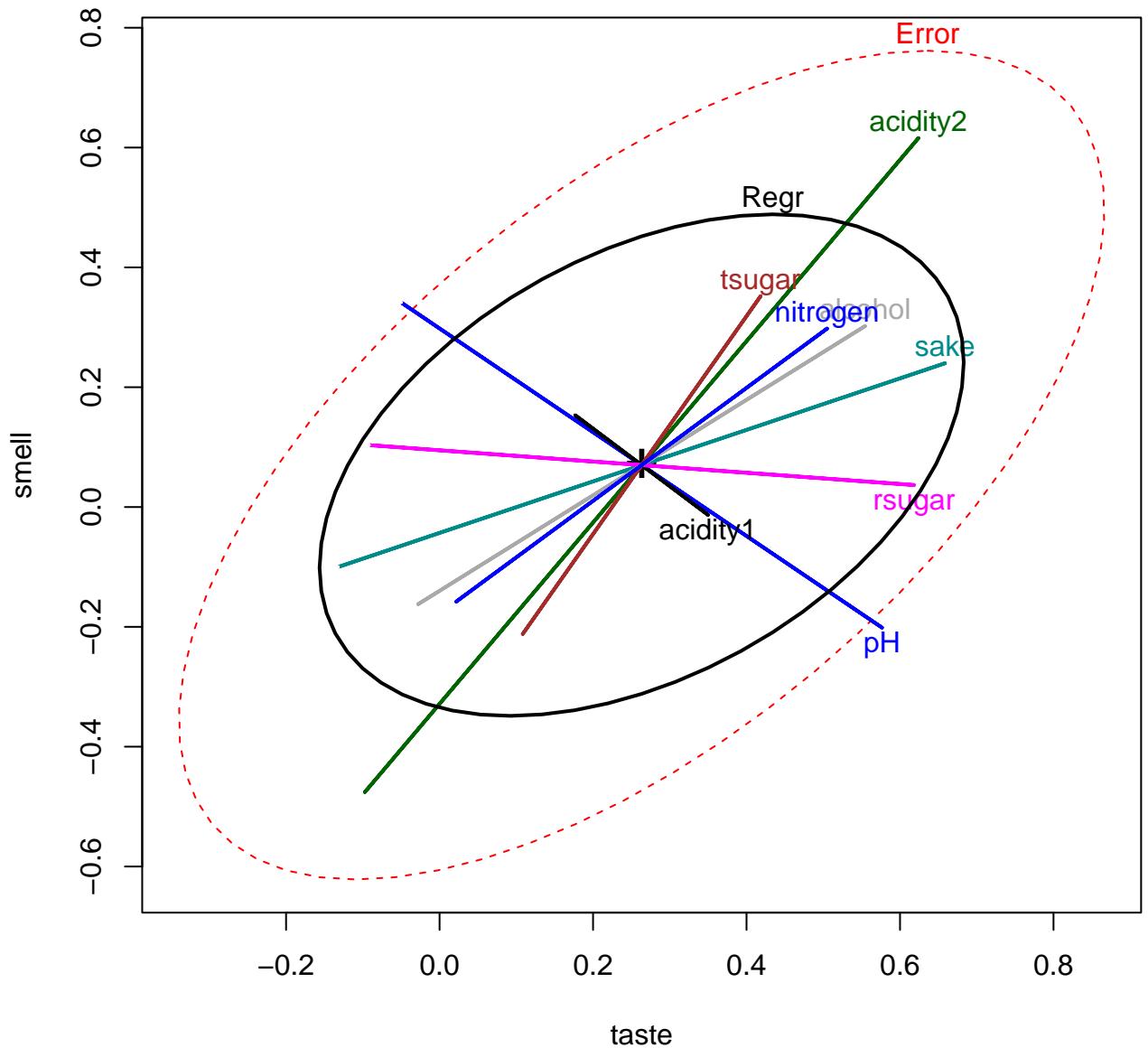


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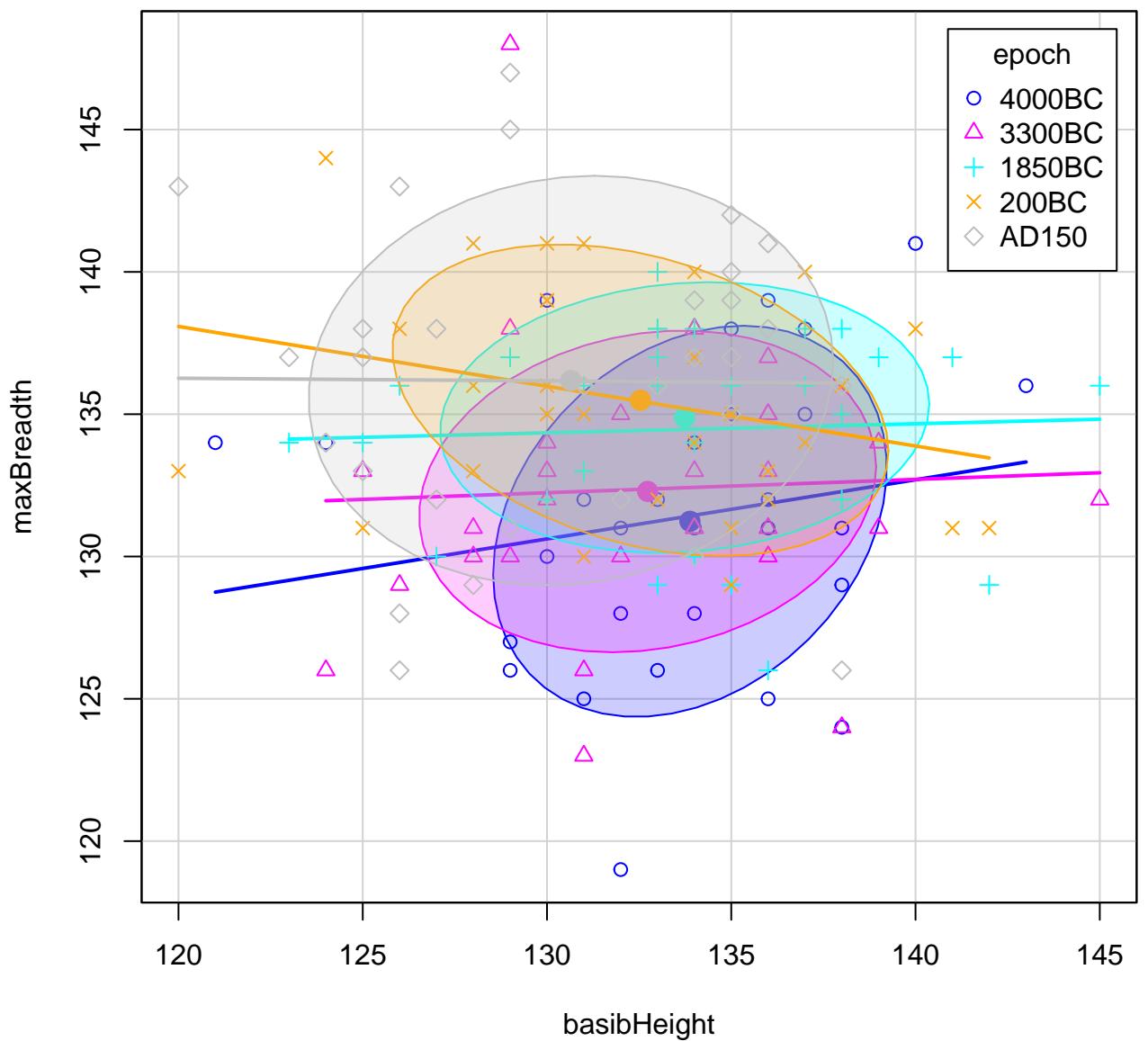
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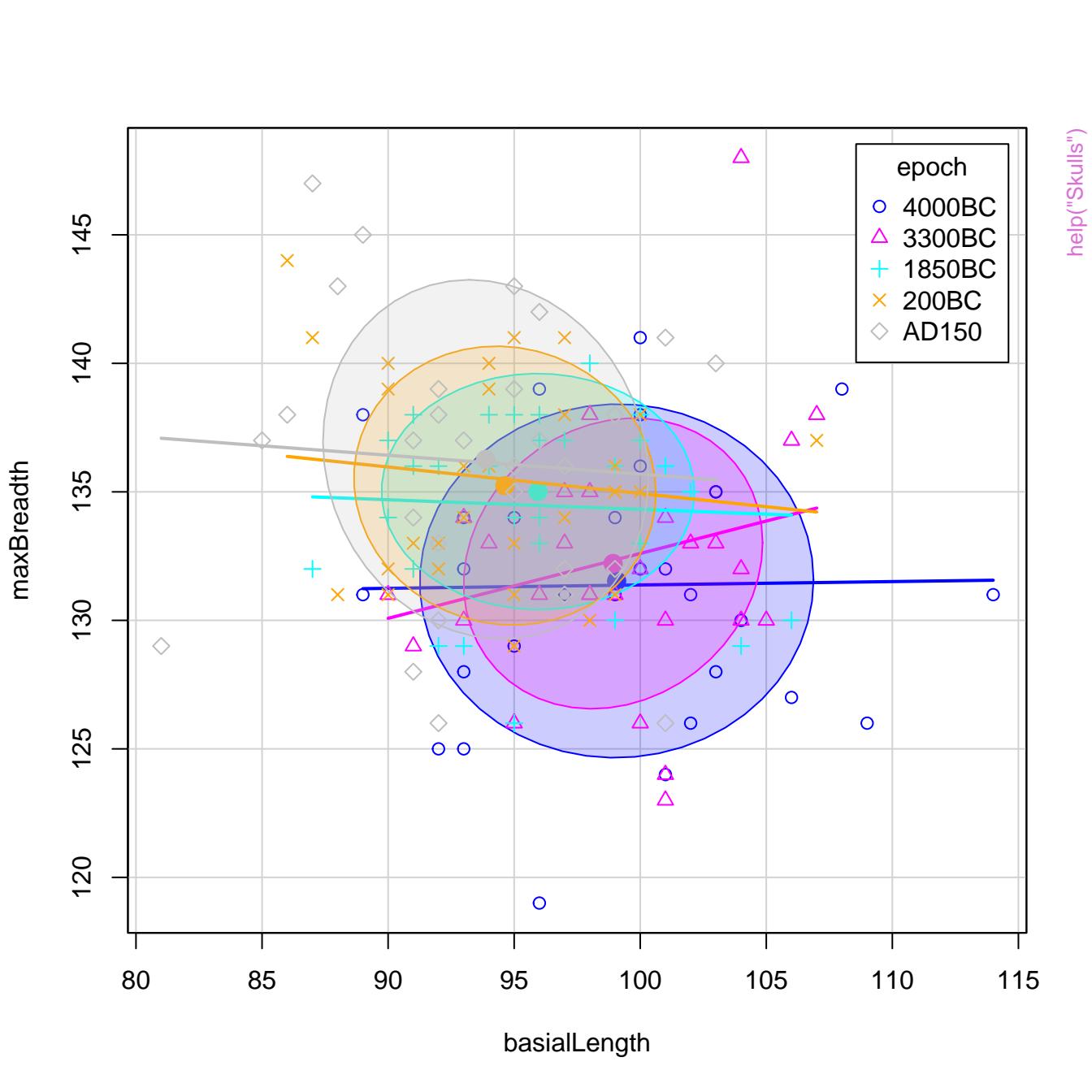


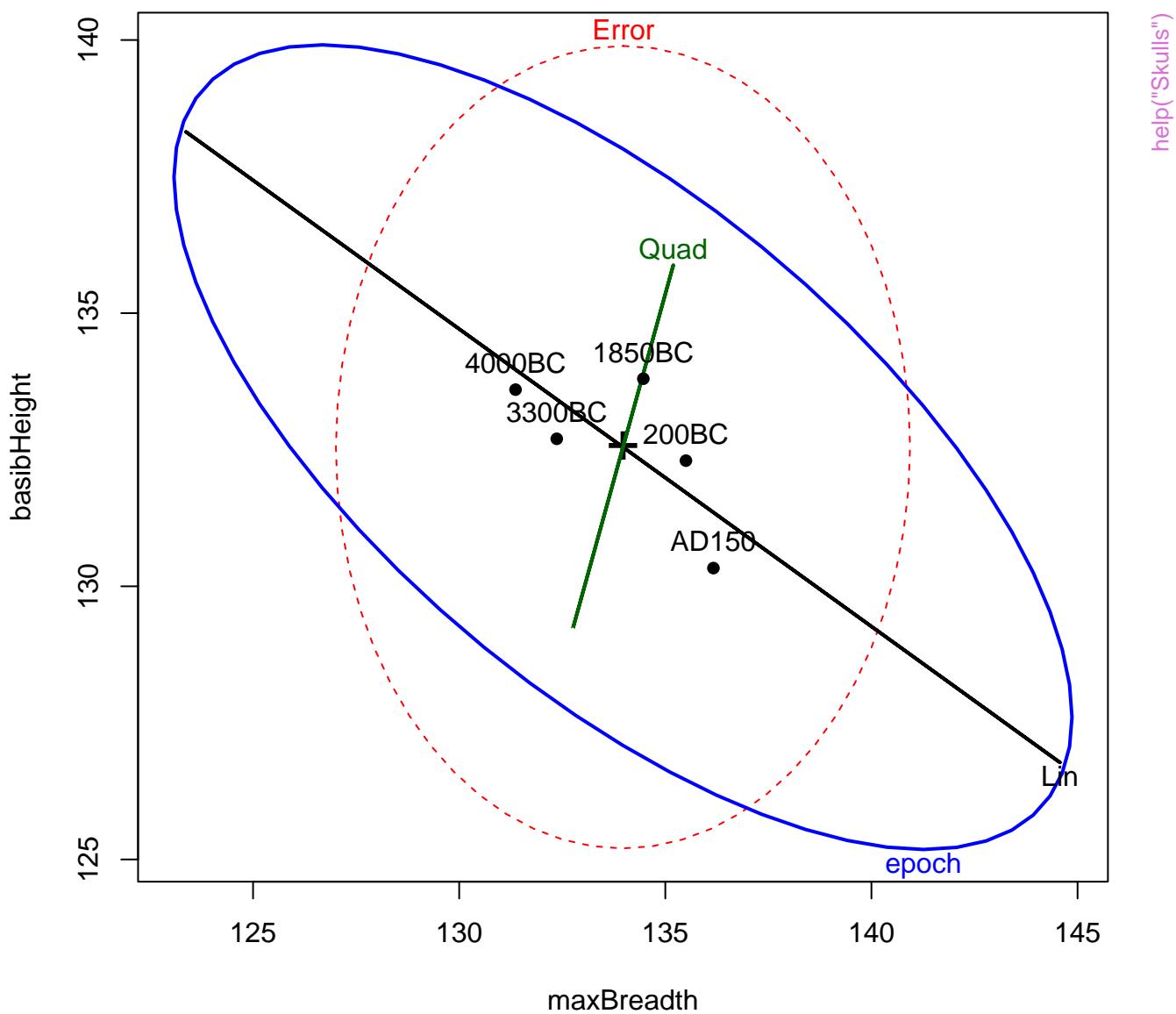
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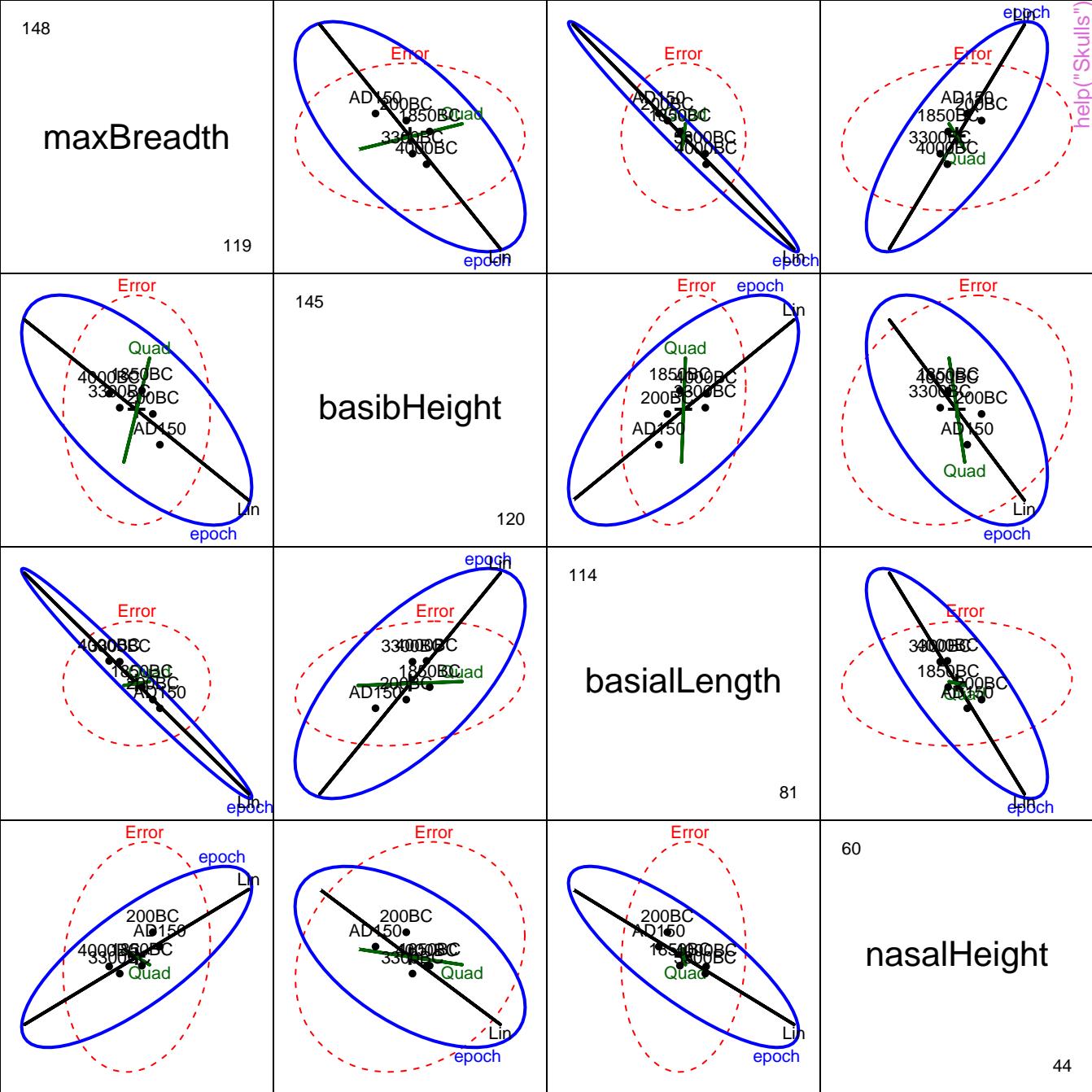


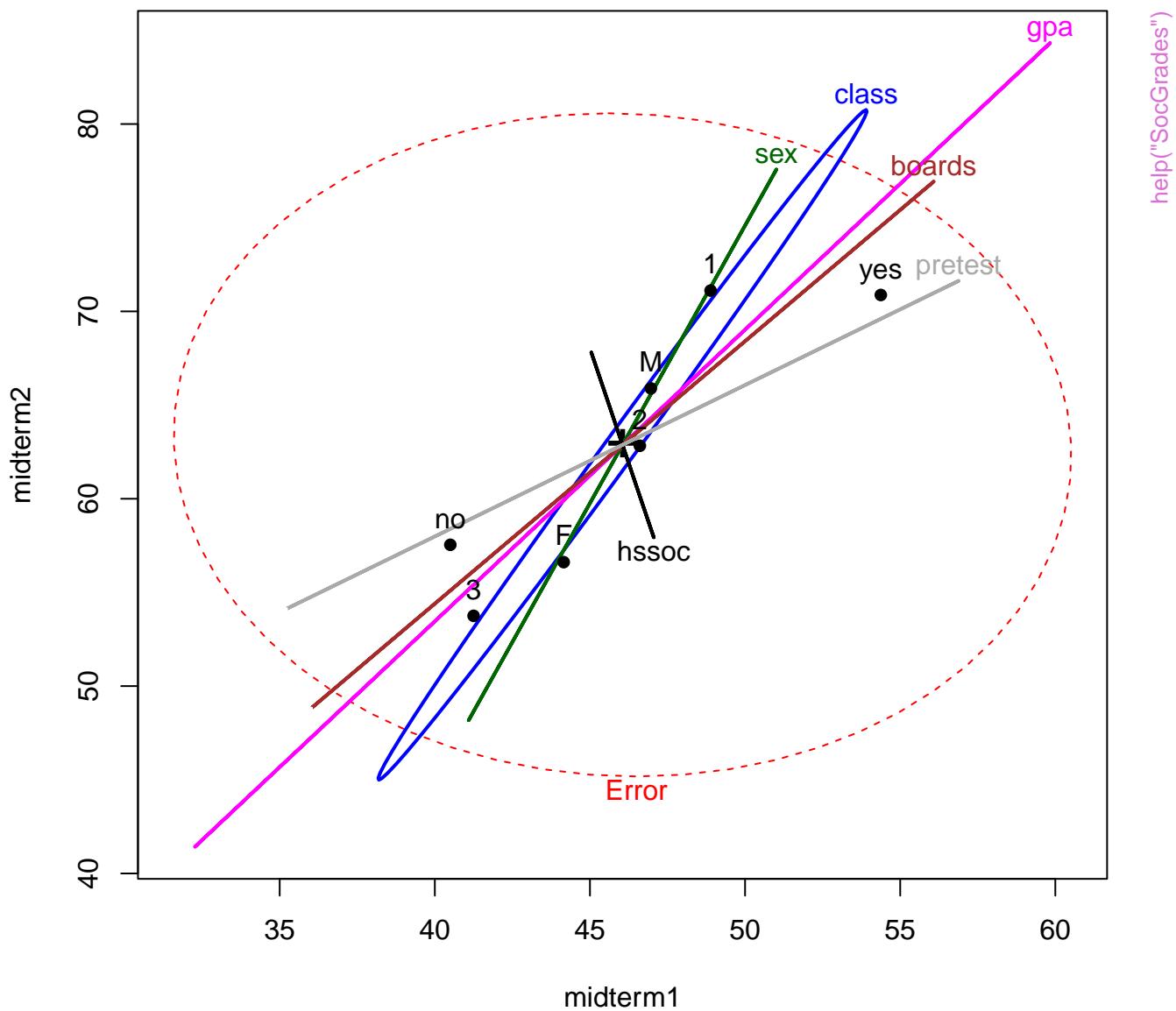
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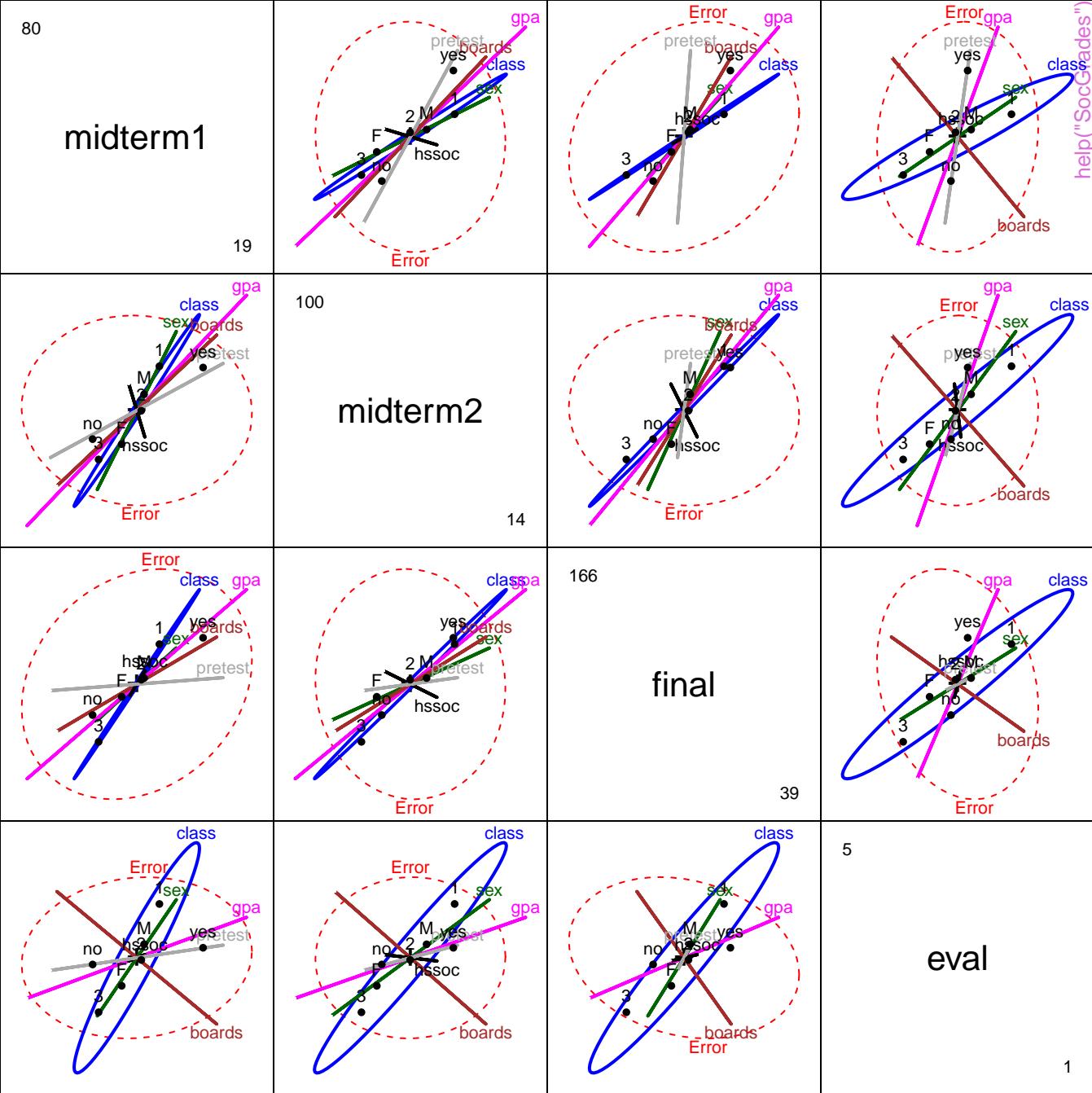




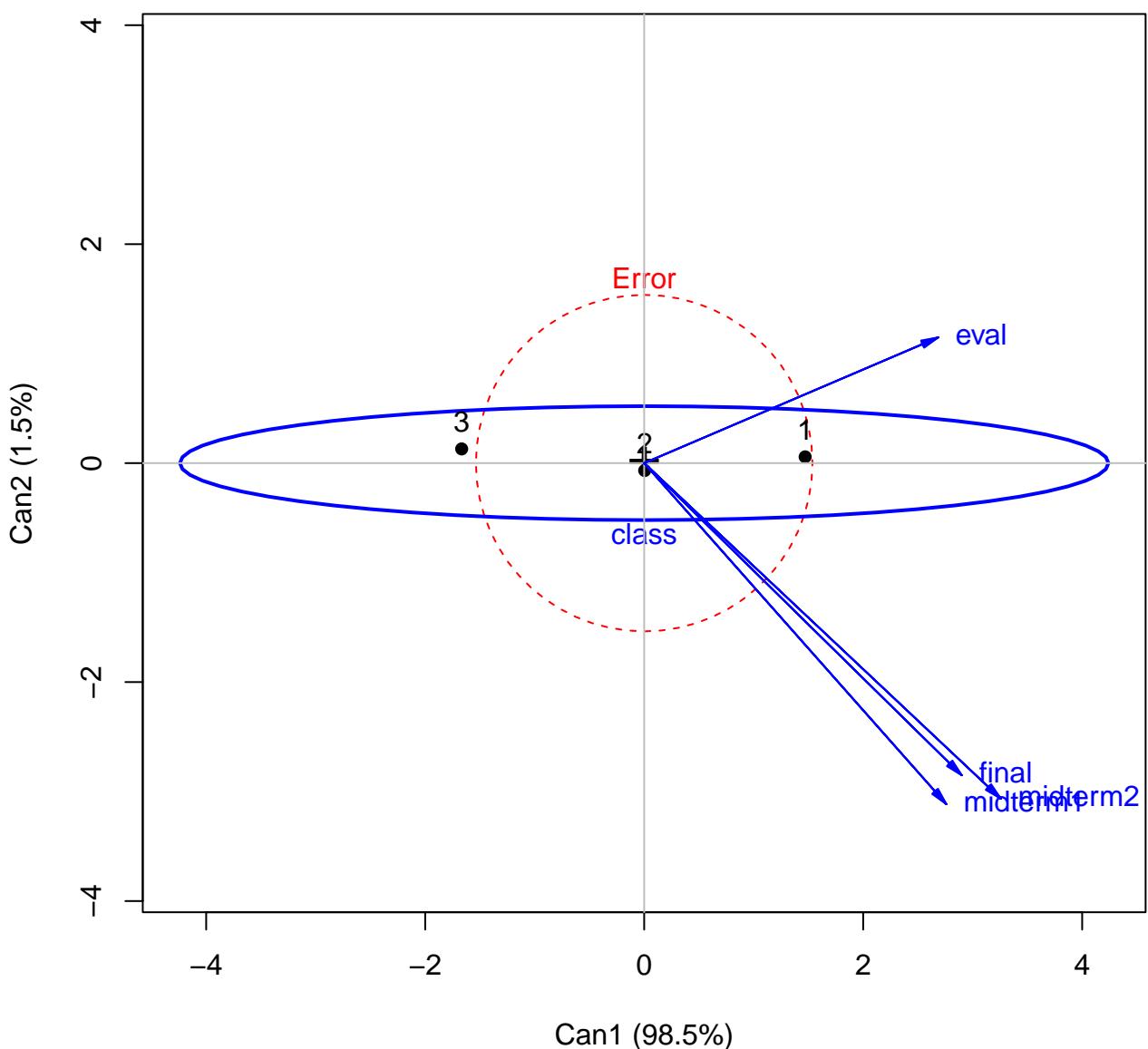






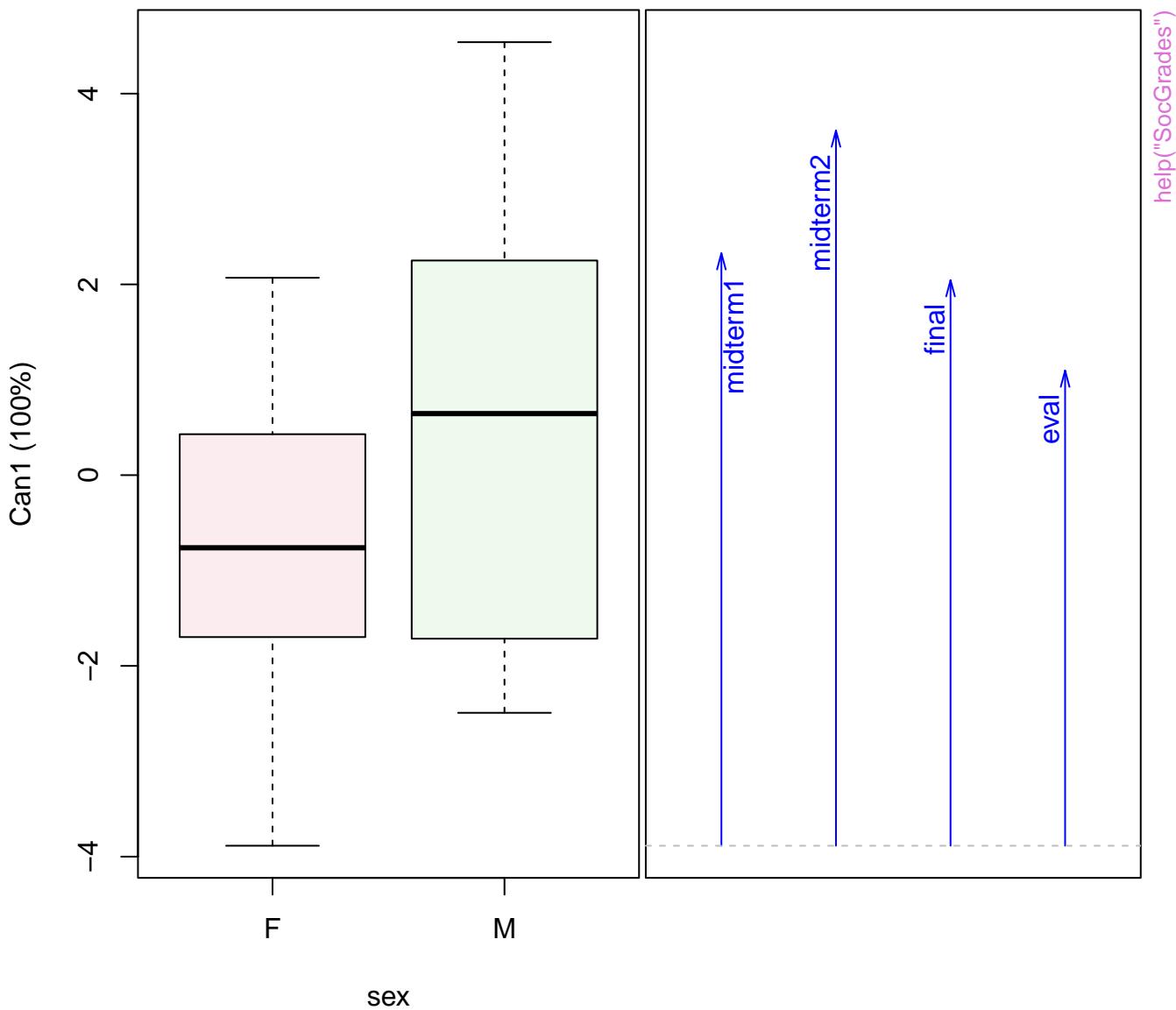


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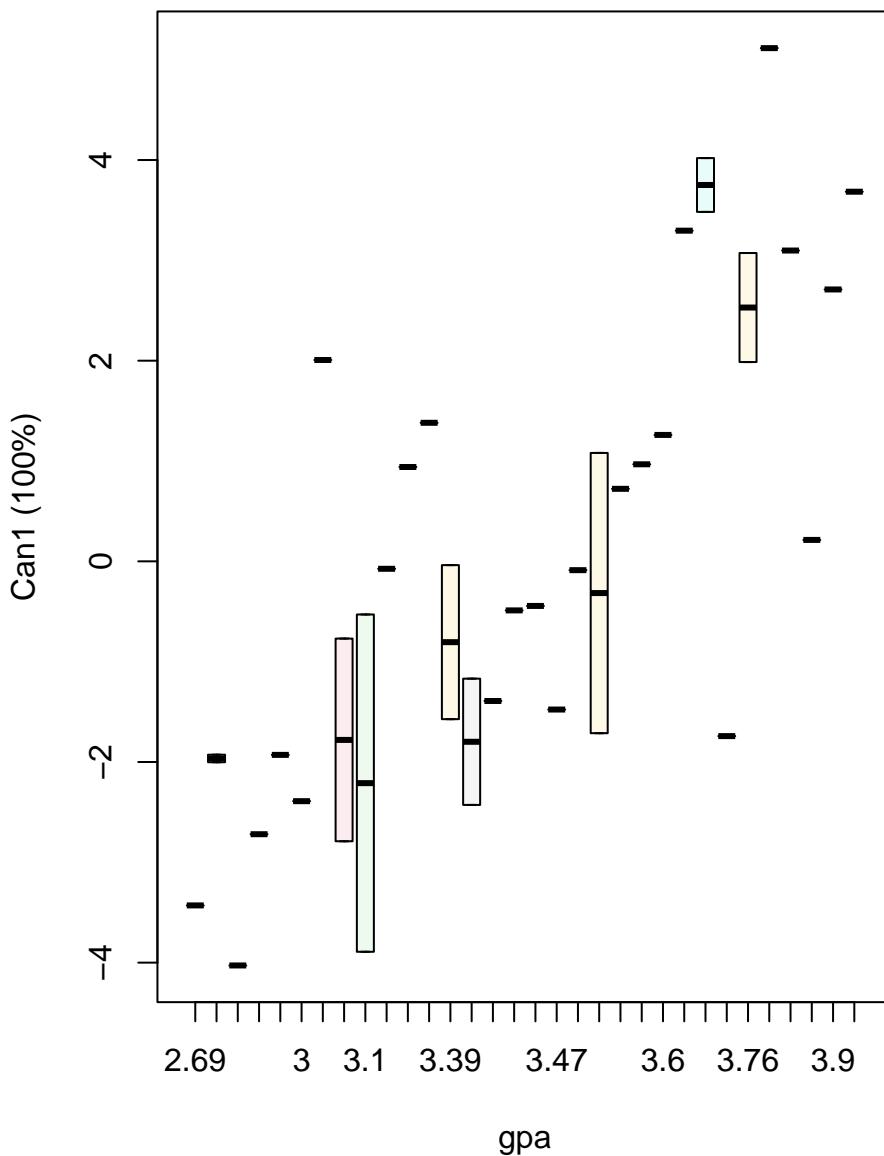


## Canonical scores

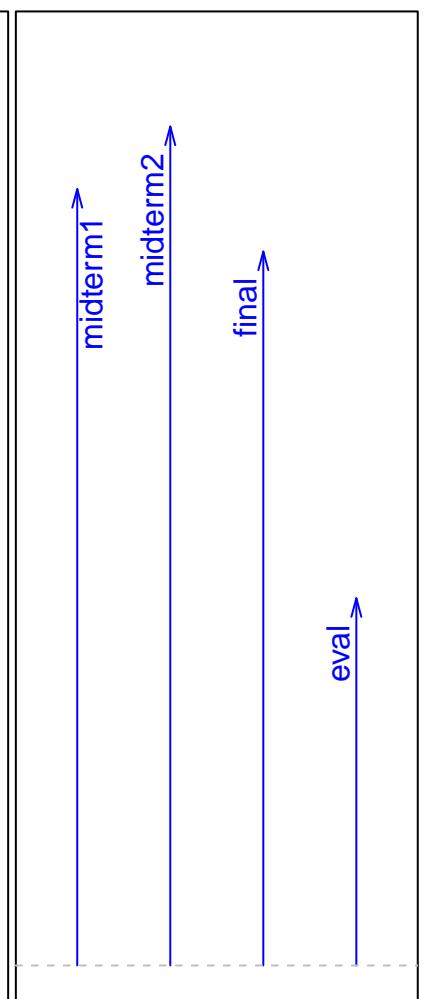
## Structure



## Canonical scores

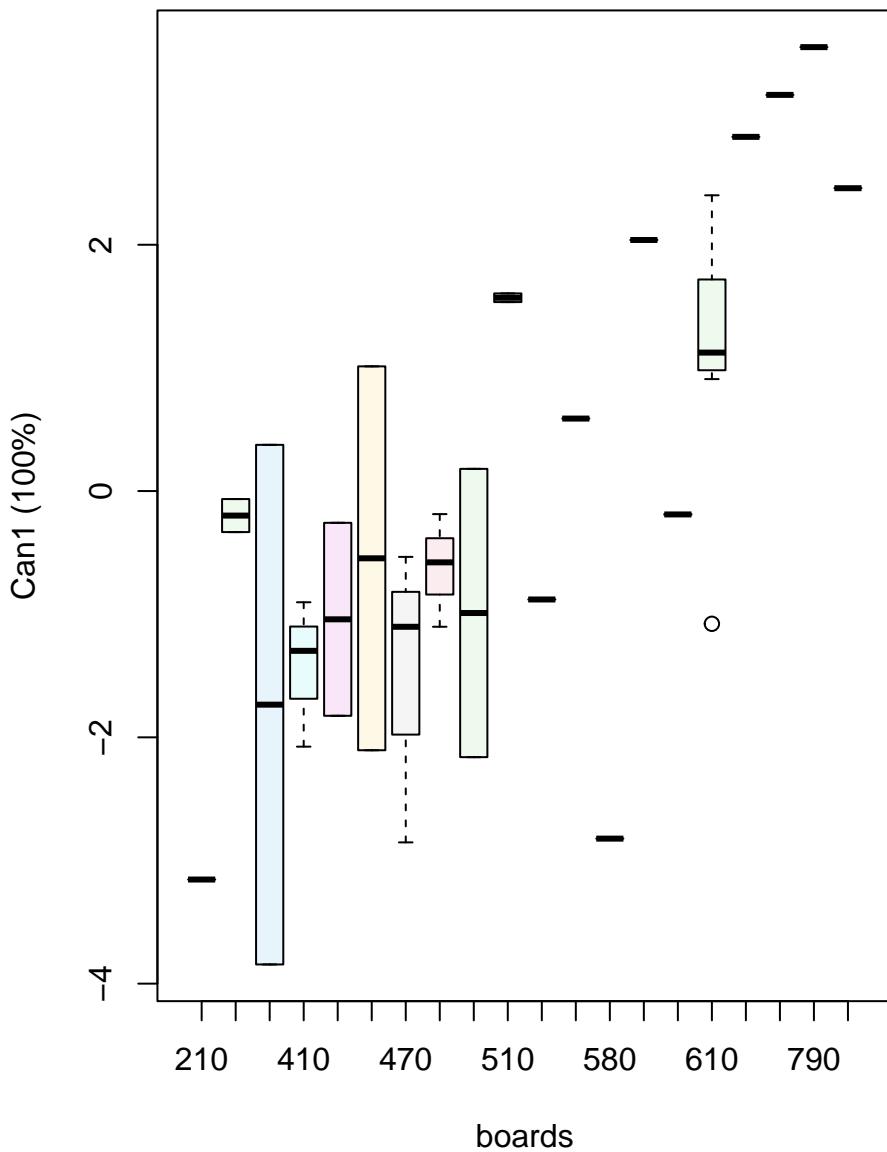


## Structure

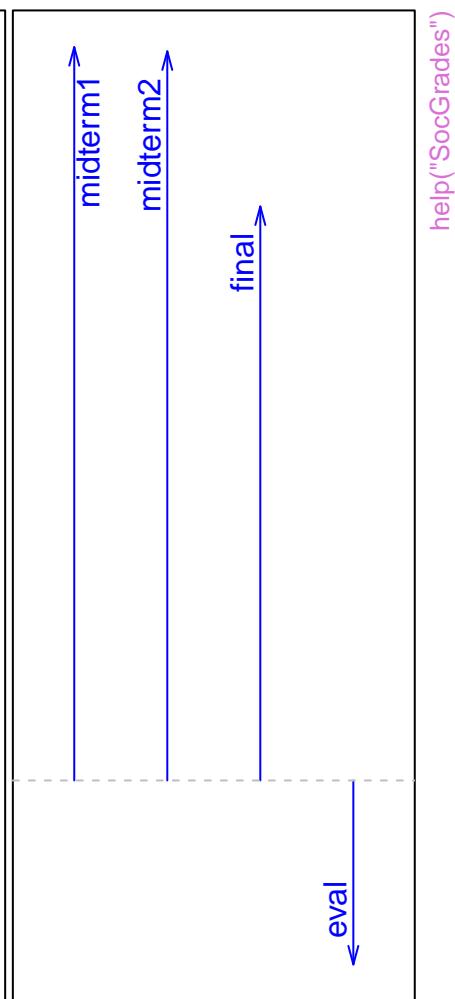


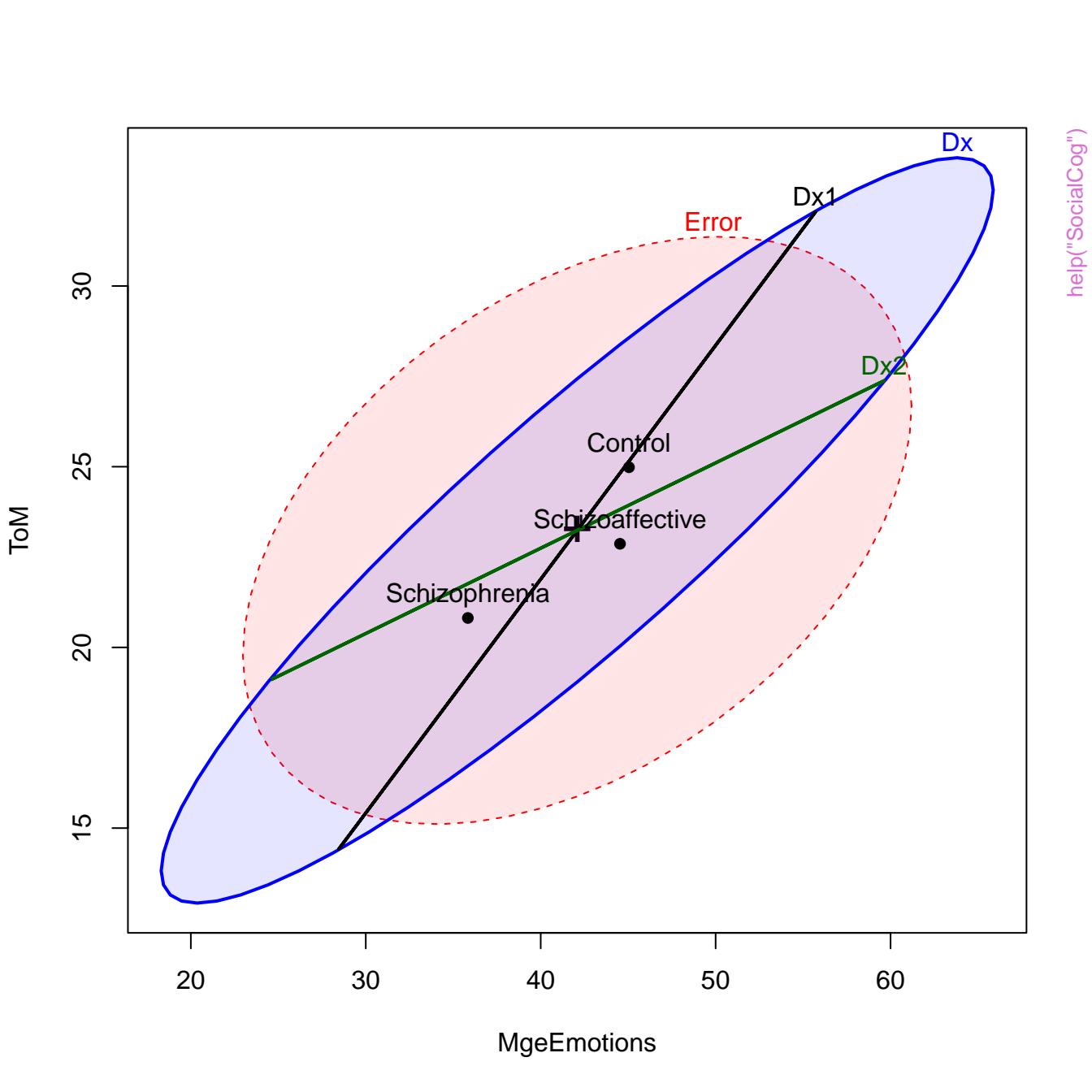
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## Canonical scores



## Structure





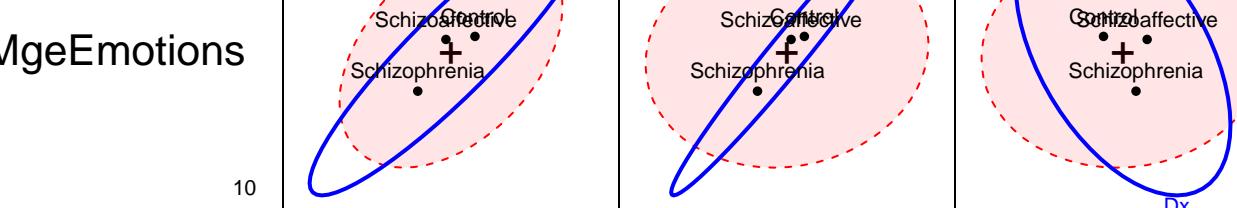
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## MgeEmotions

10

Dx

Error



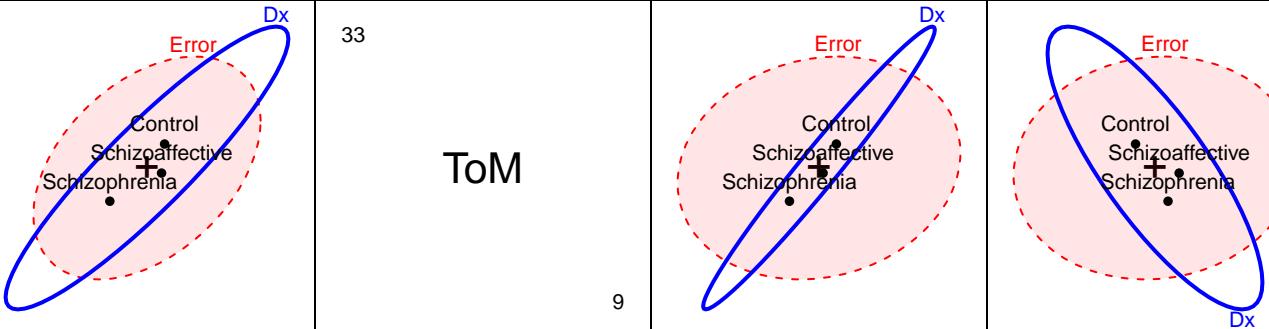
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## ToM

9

Dx

Error



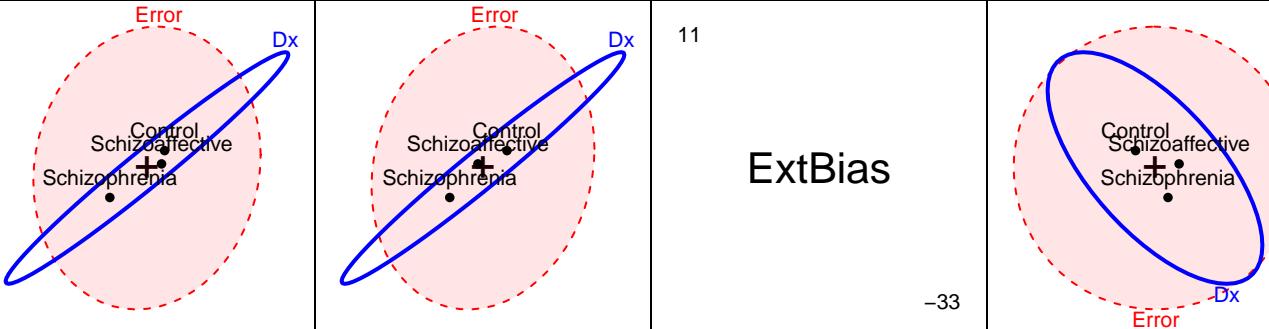
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## ExtBias

-33

Dx

Error



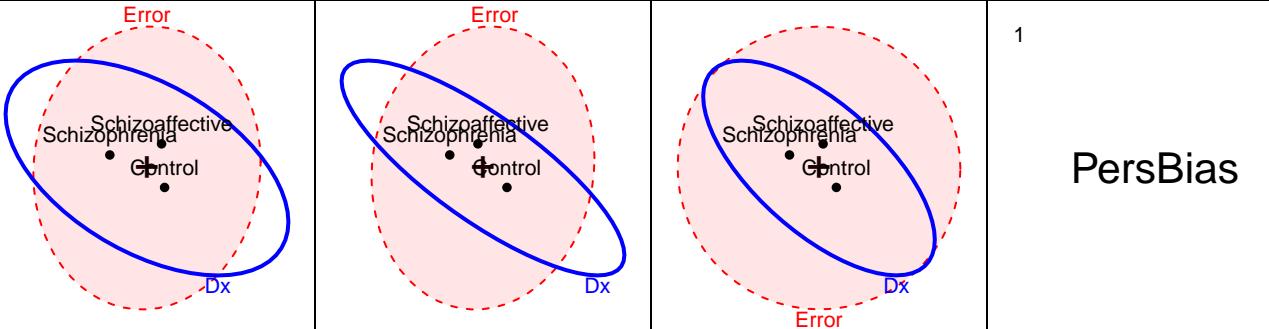
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## PersBias

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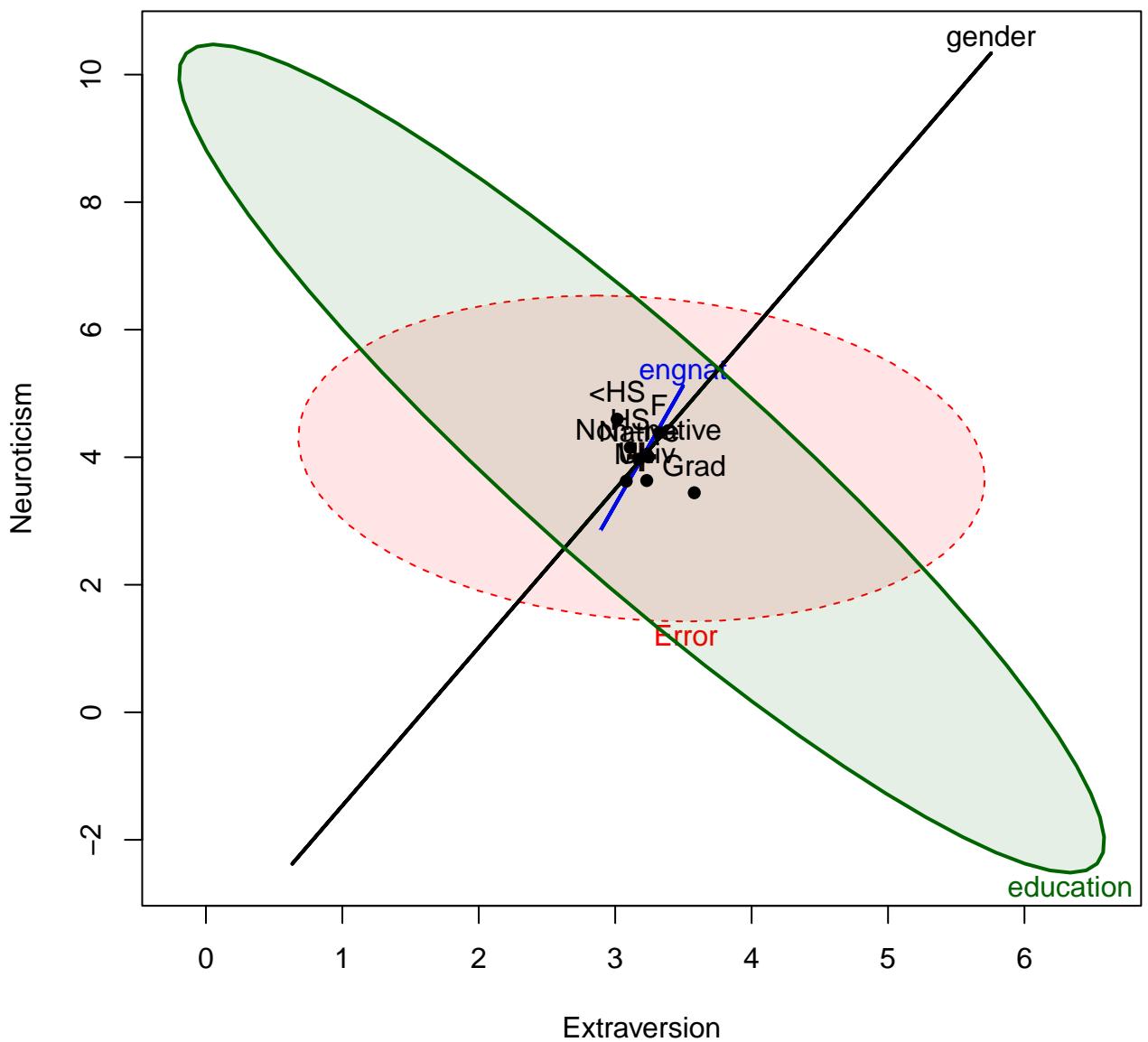
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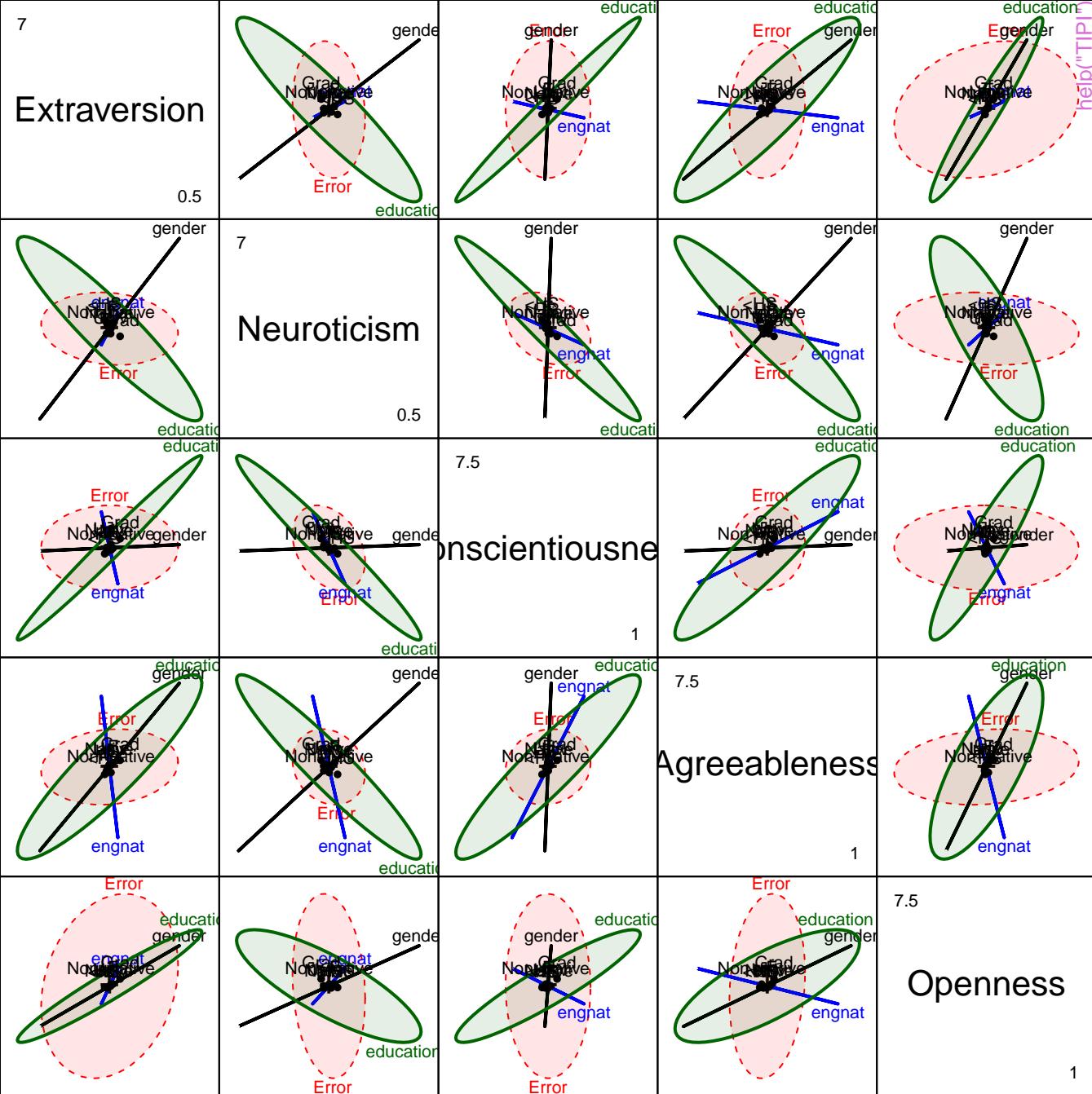
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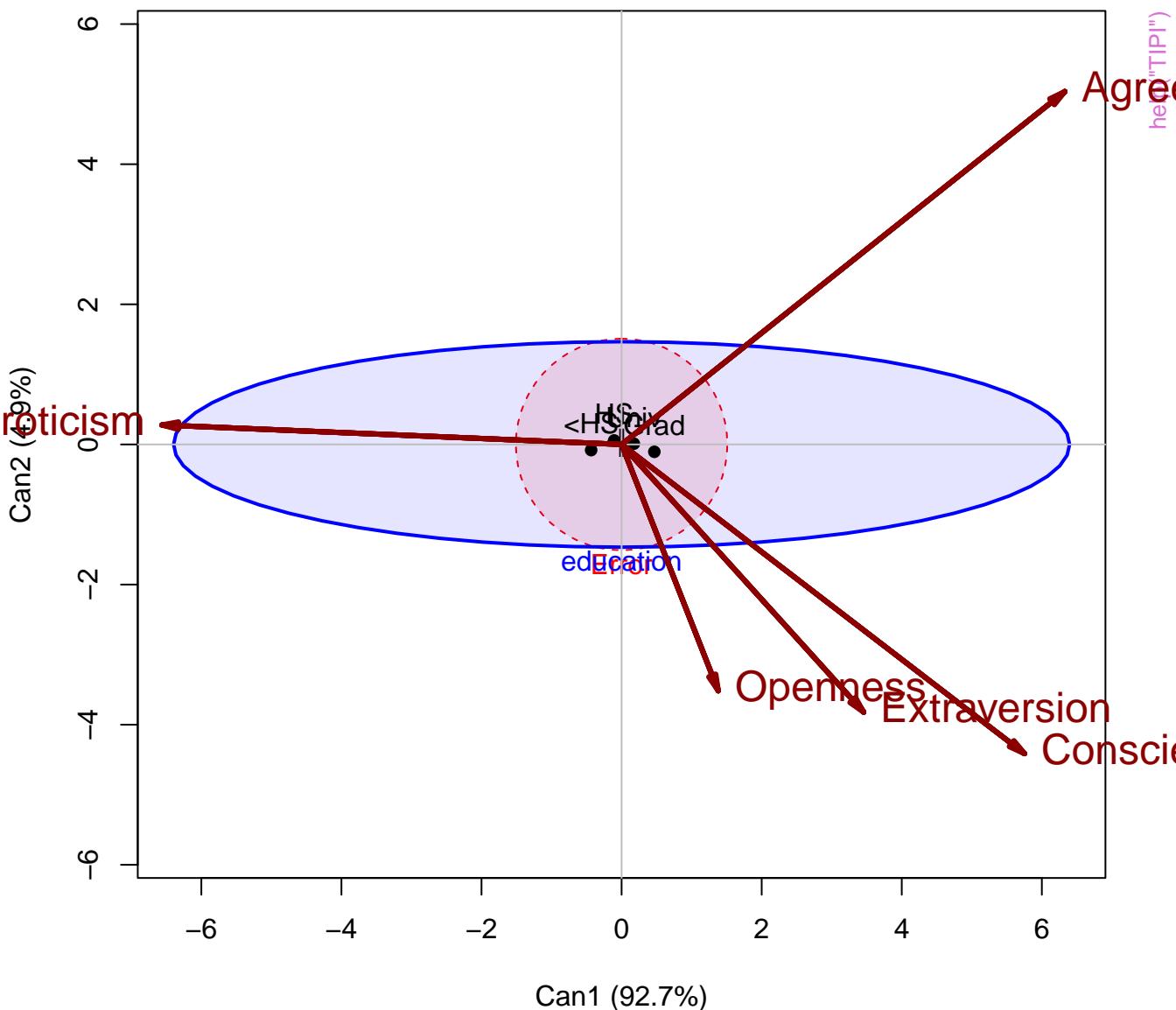


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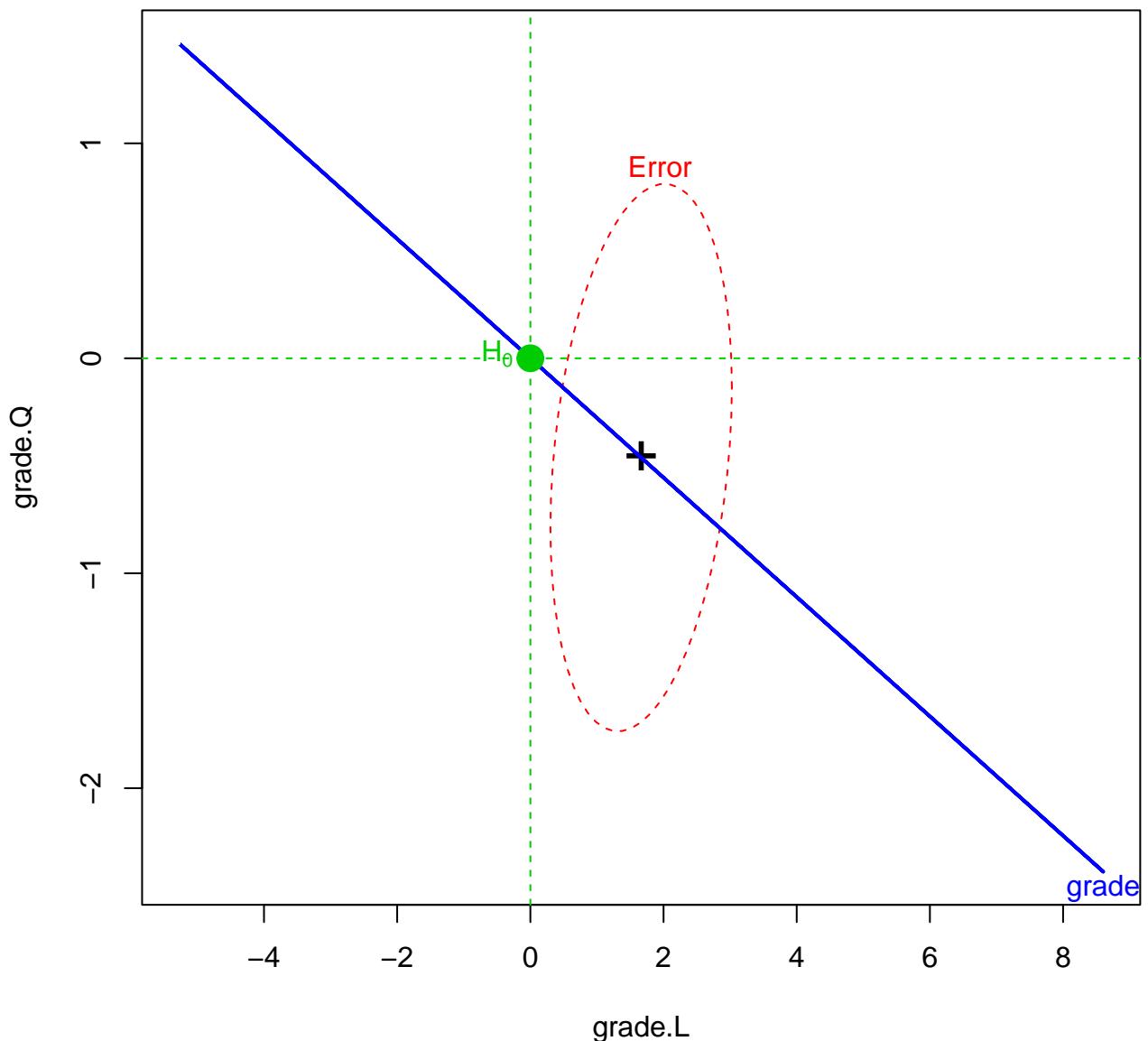
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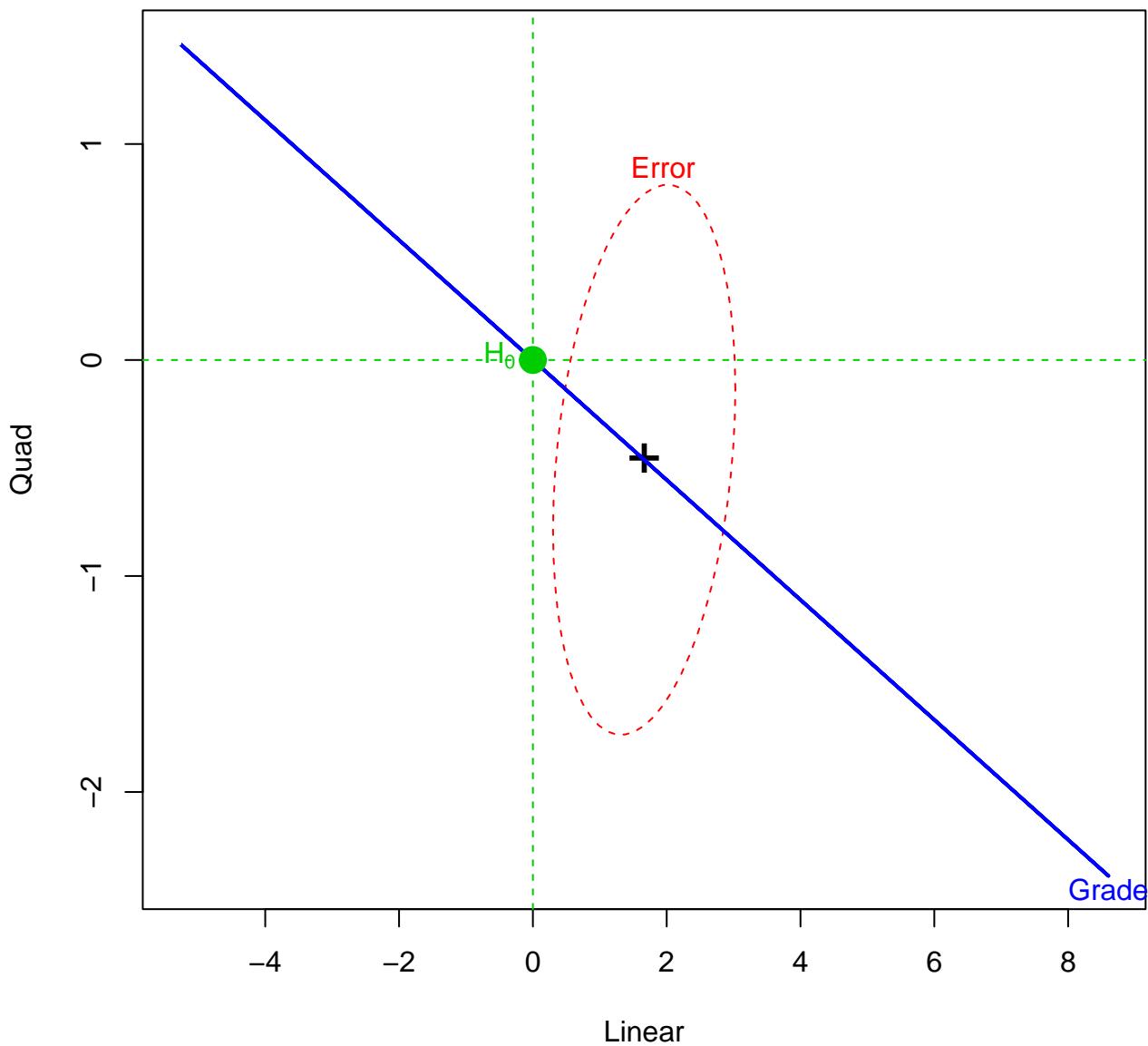


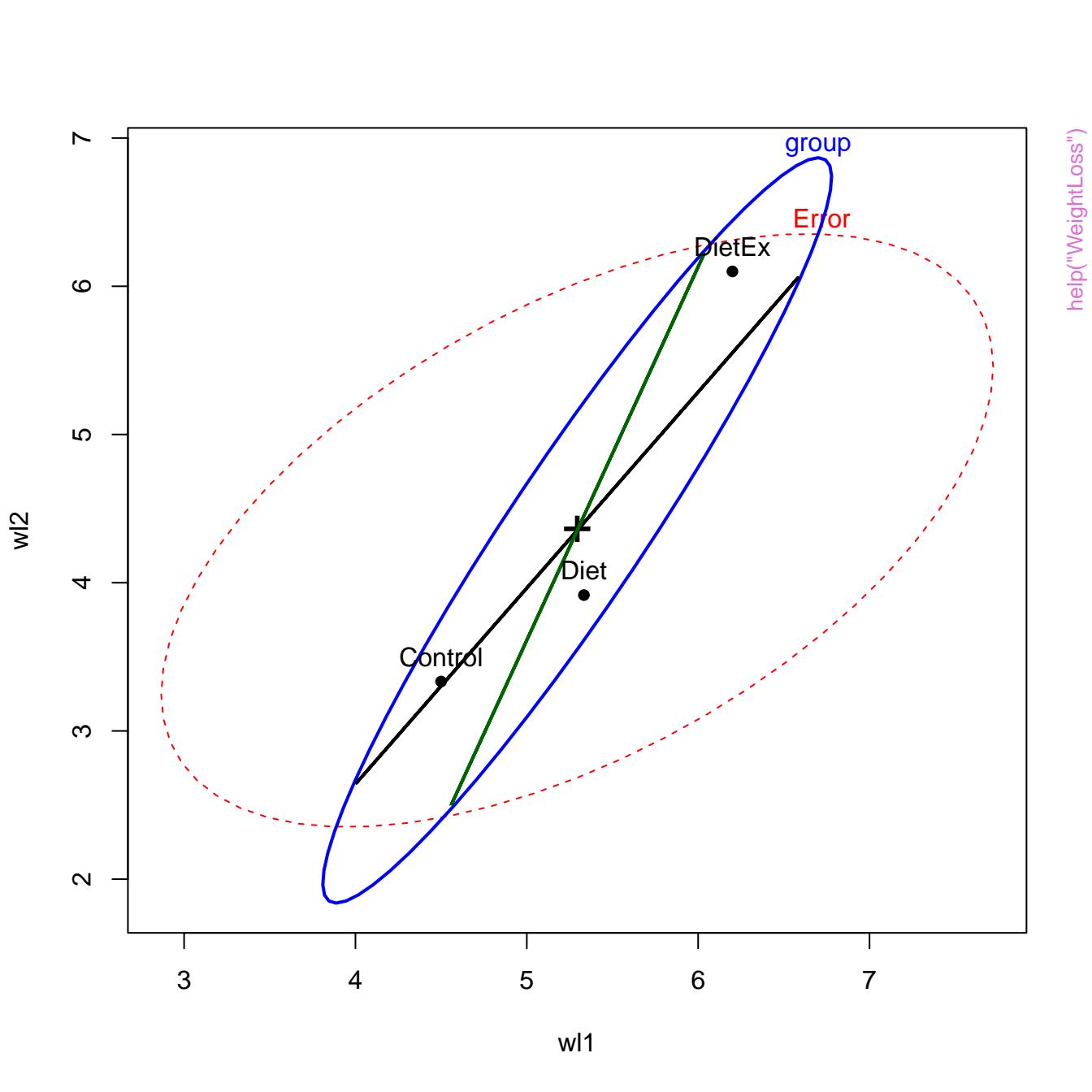
# HE plot for Grade effect

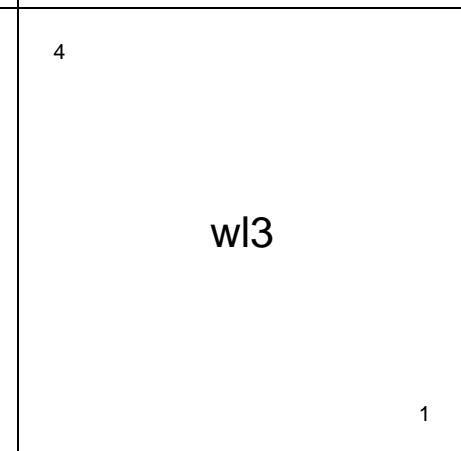
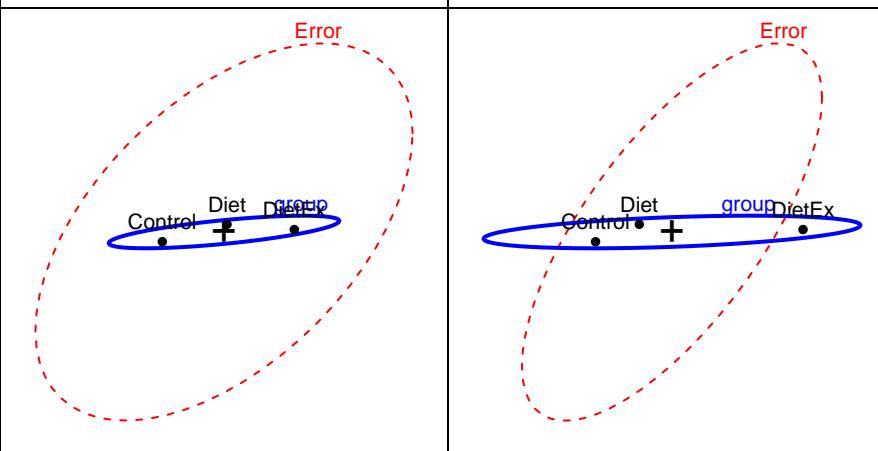
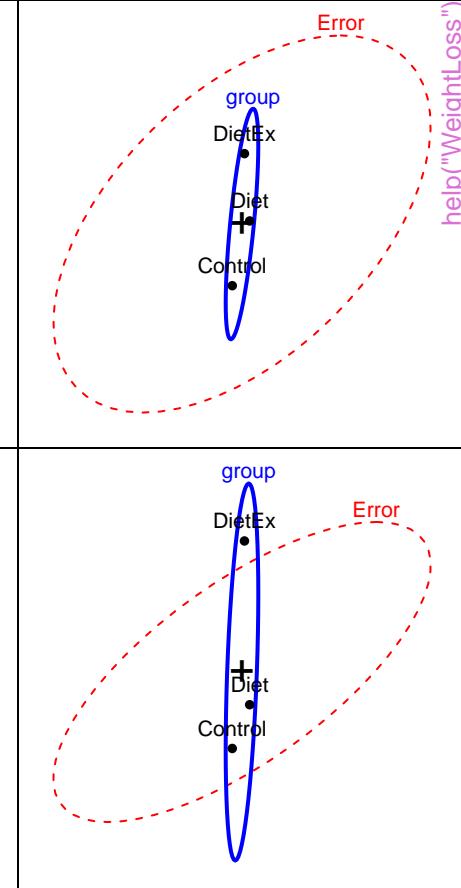
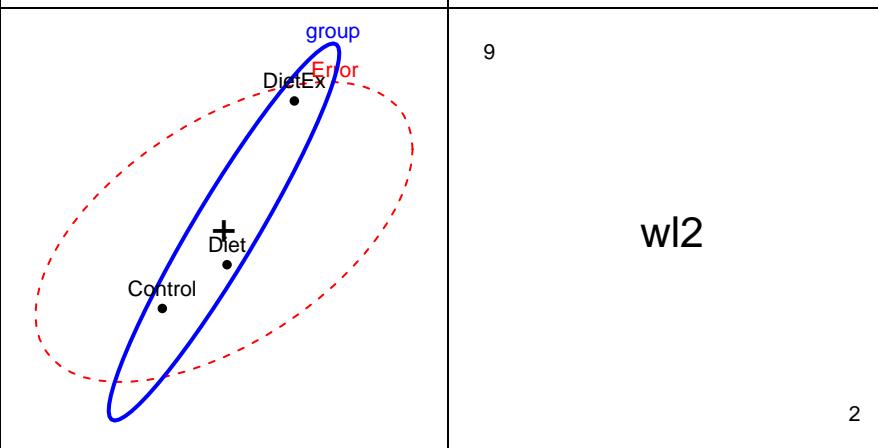
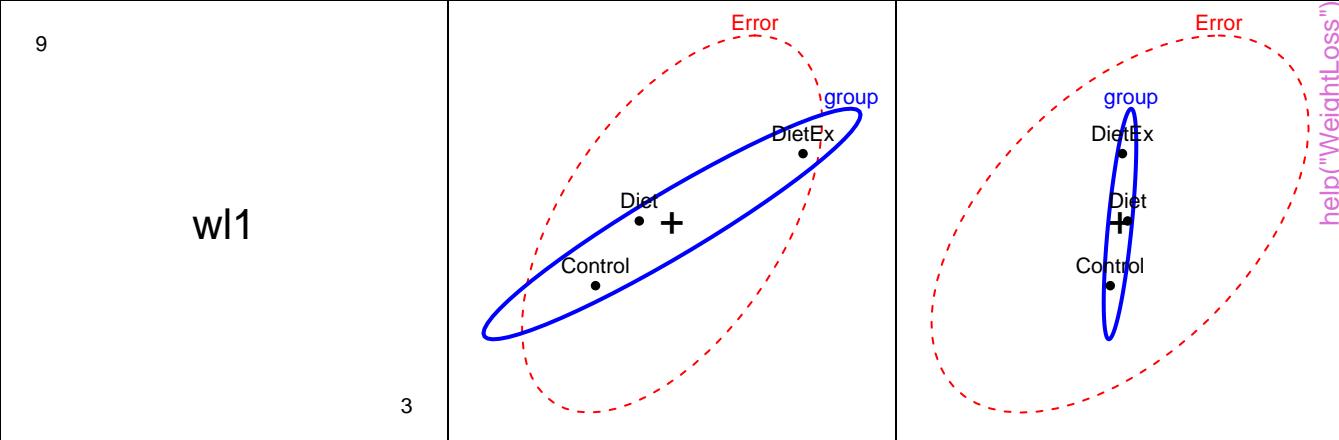


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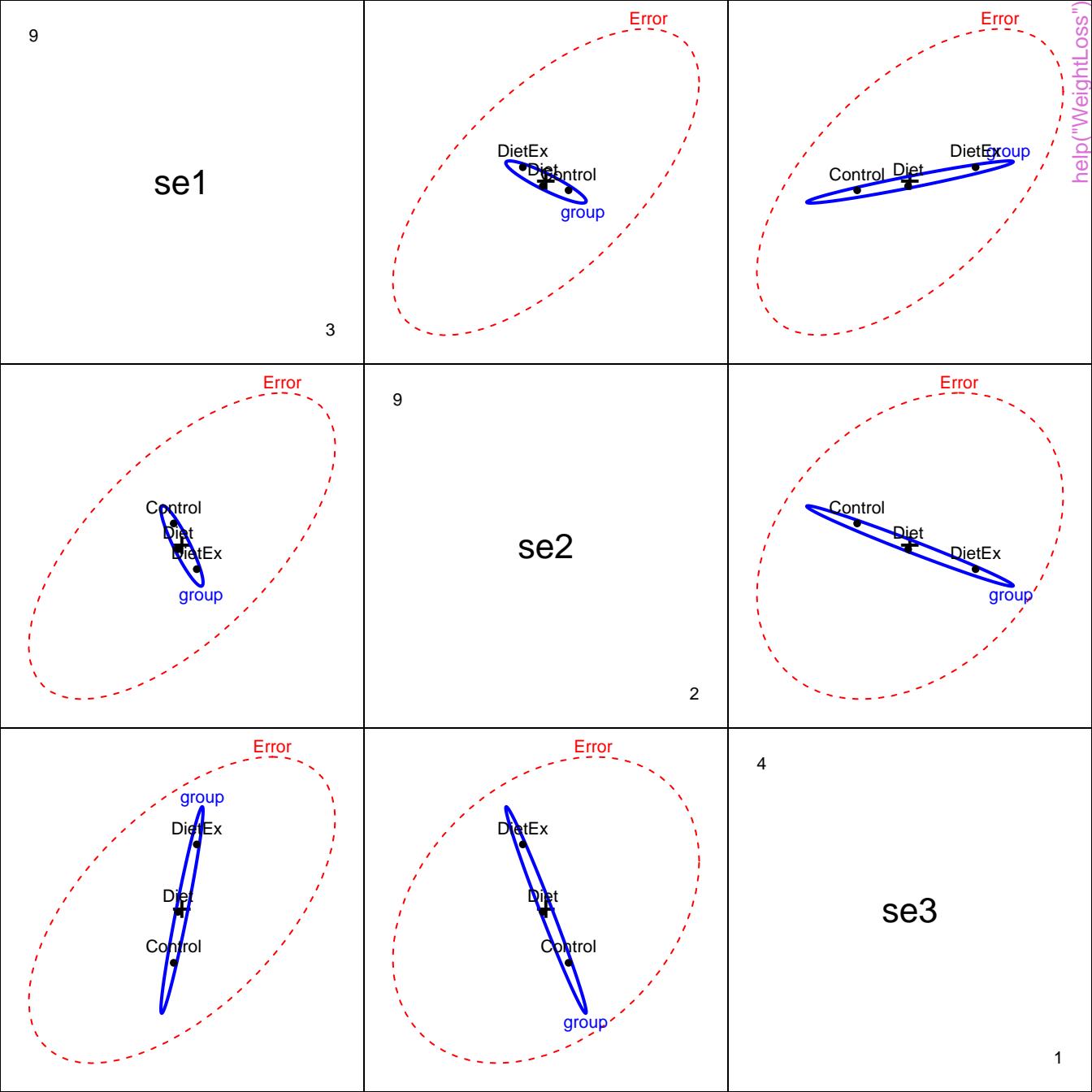
## HE plot for Grade effect



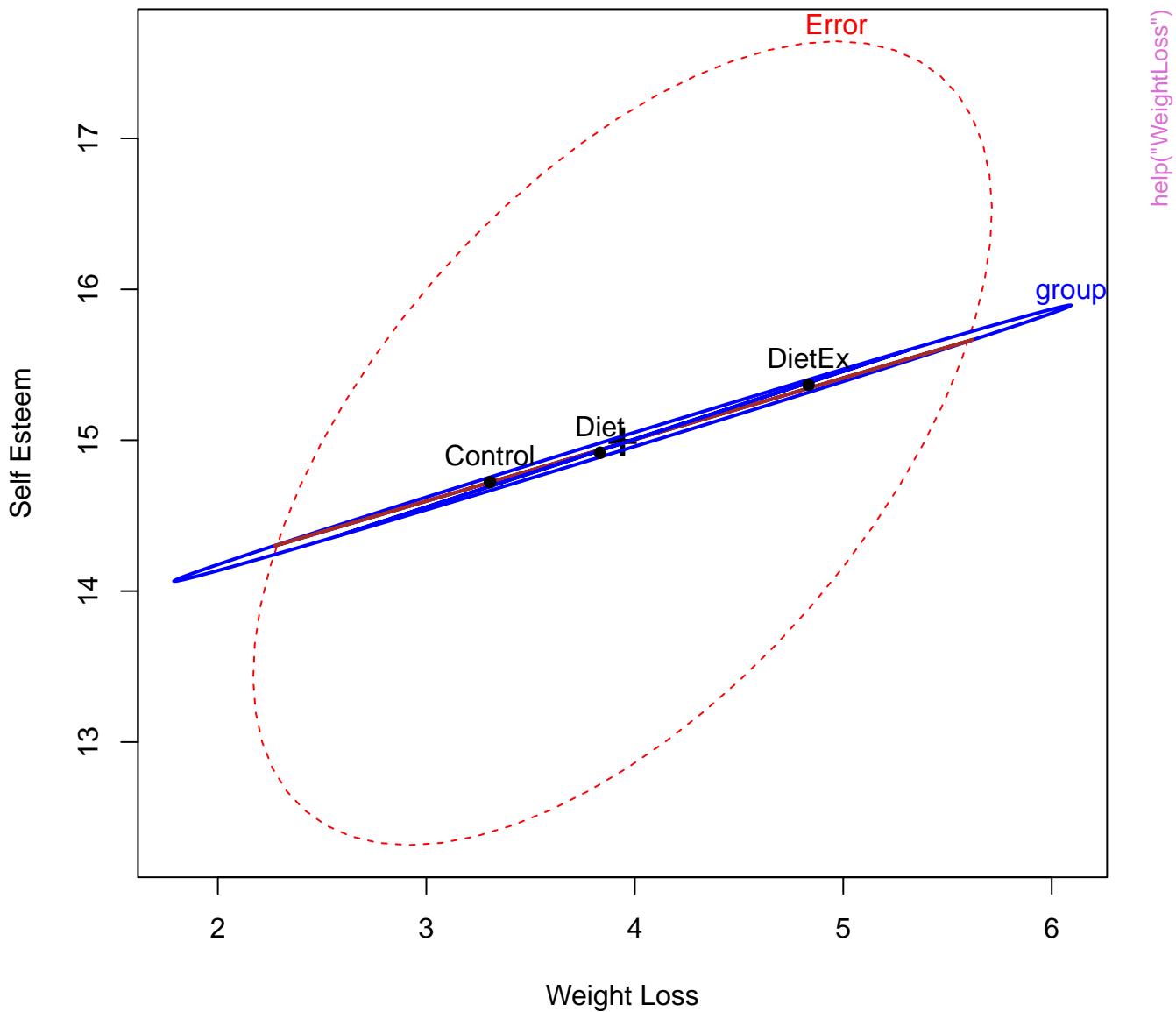




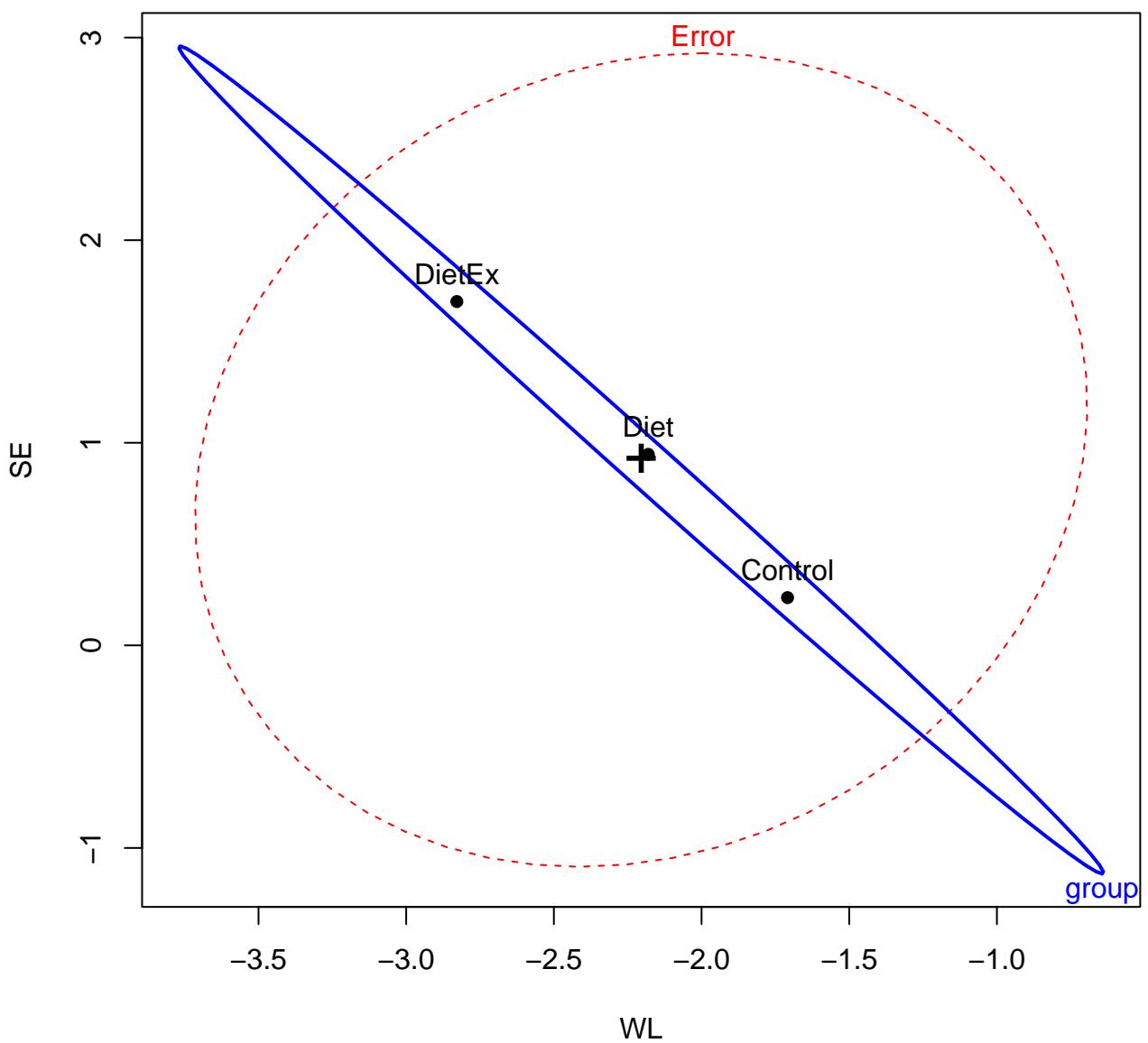
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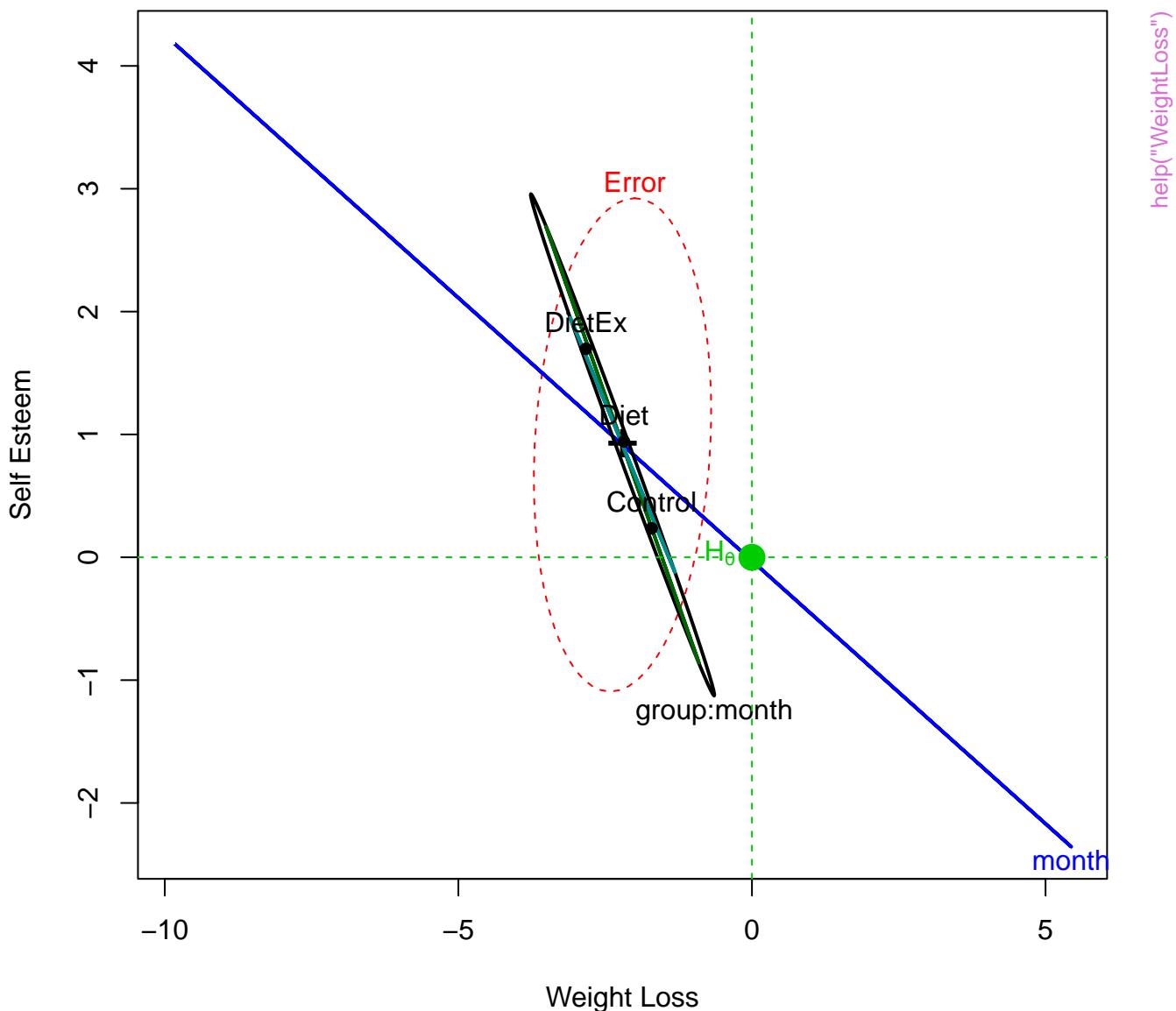
# Weight Loss & Self Esteem: Group Effect



help("WeightLoss")



# Weight Loss & Self Esteem: Within-S Effects



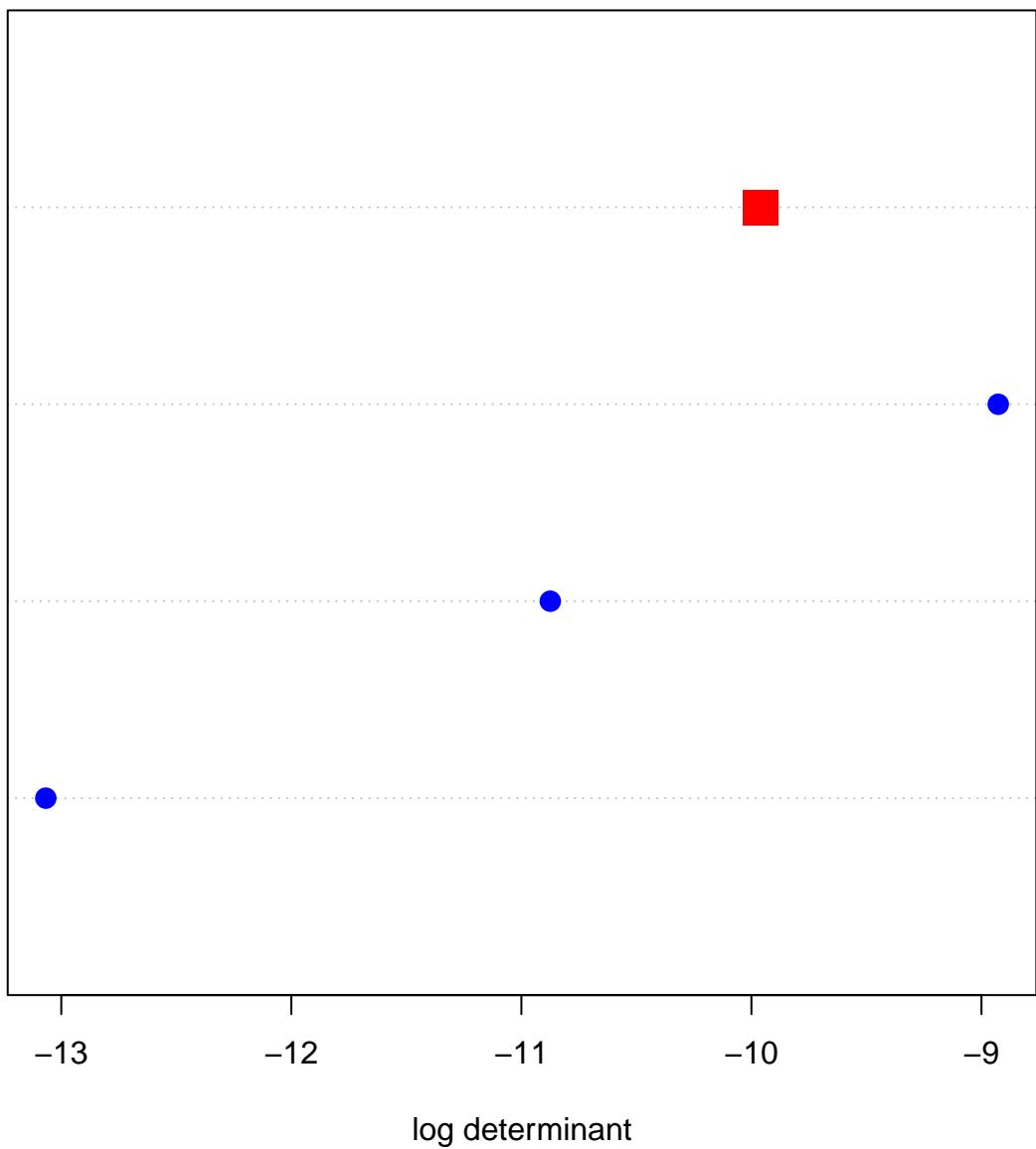
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pooled

virginica

versicolor

setosa



```
help("boxM")
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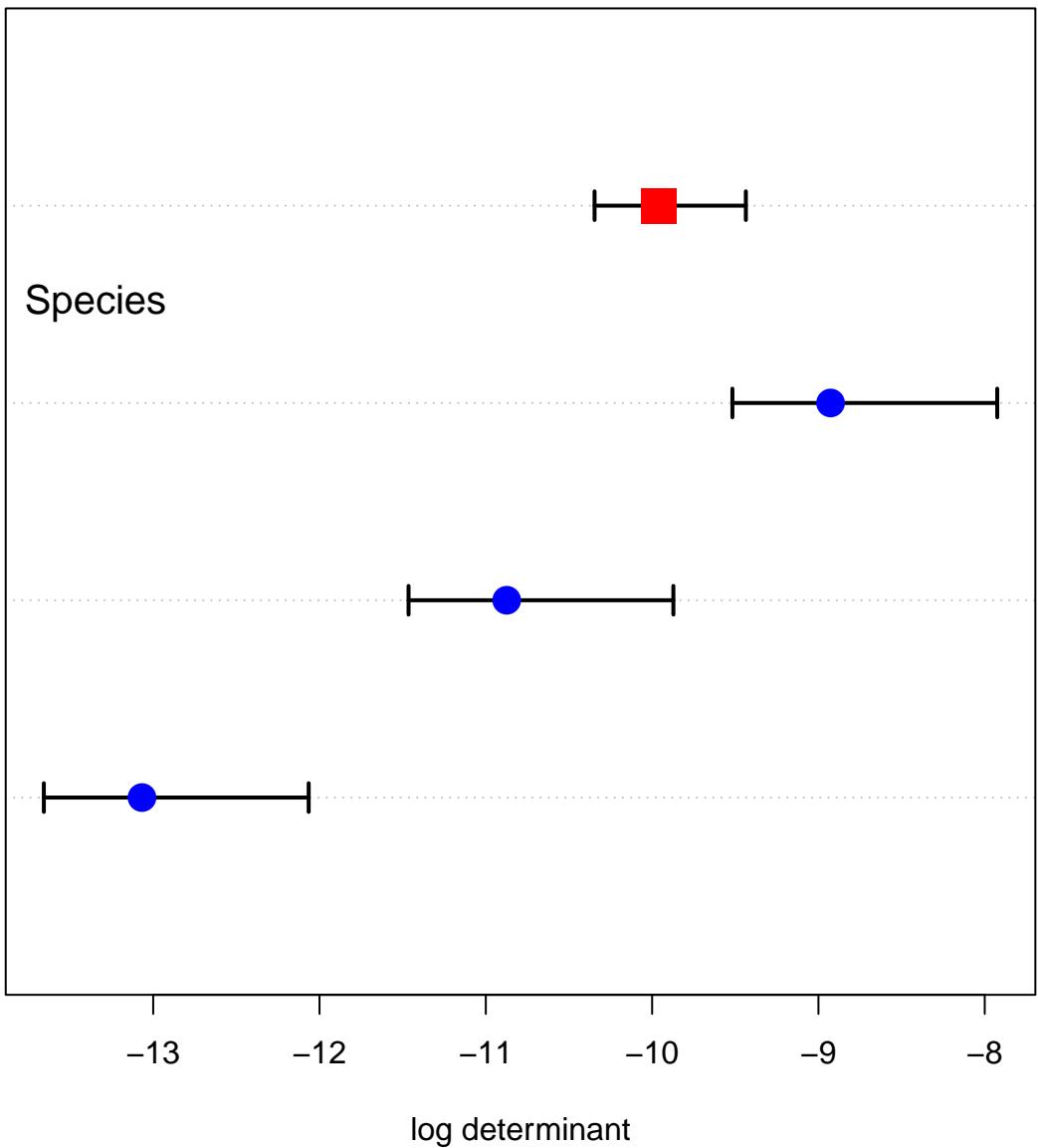
pooled

Species

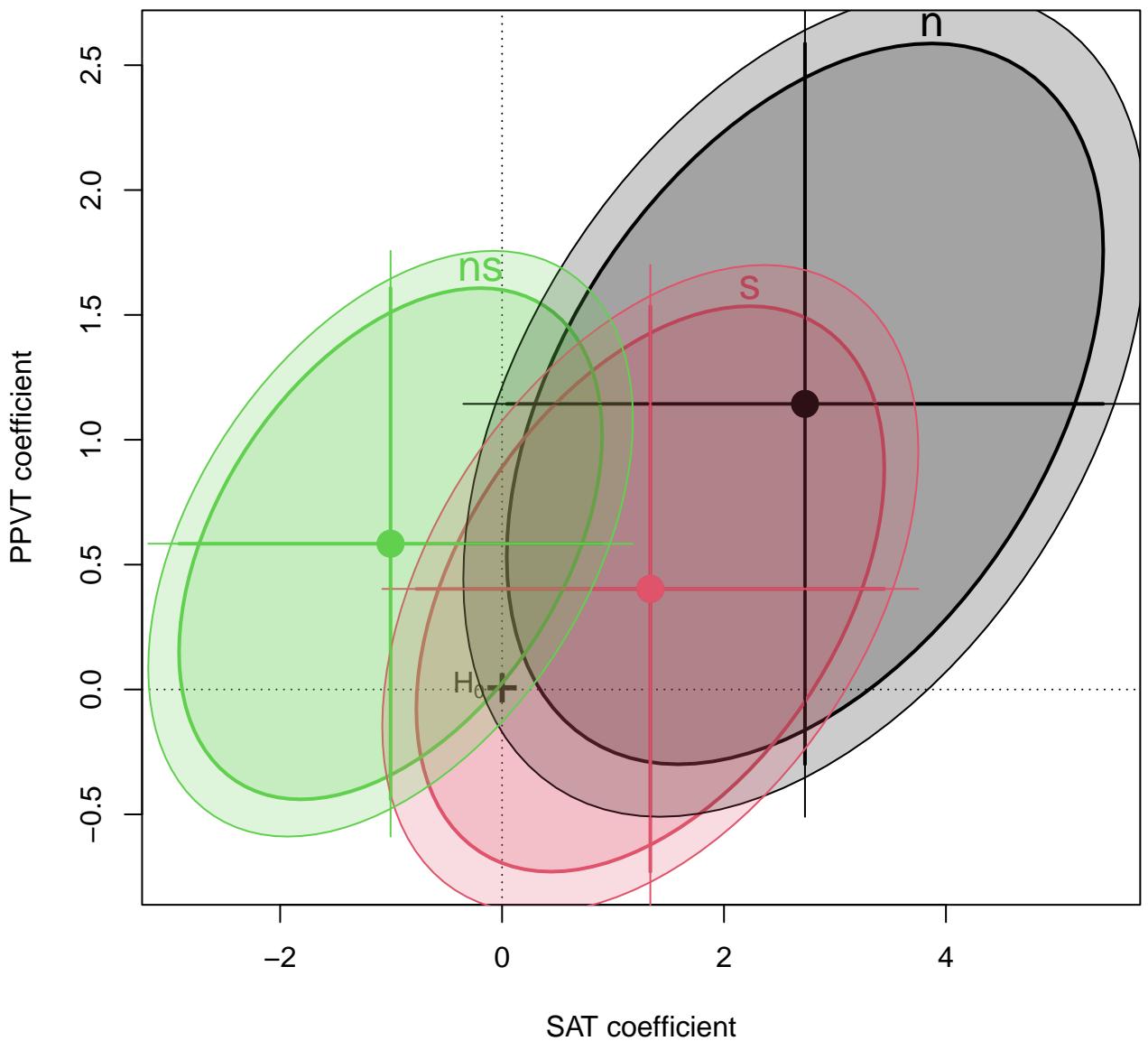
virginica

versicolor

setosa

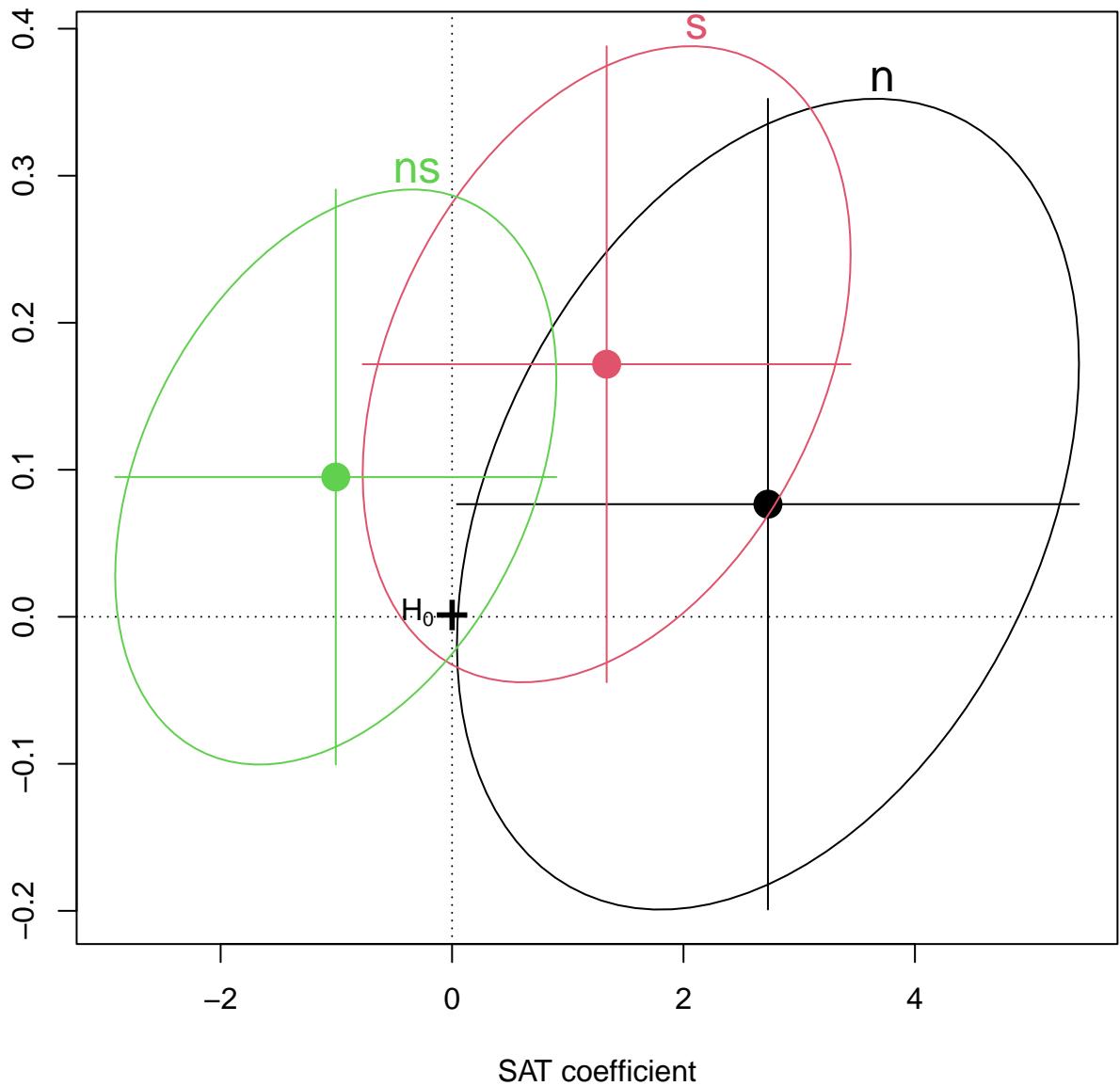


# Bivariate coefficient plot for SAT and PPVT



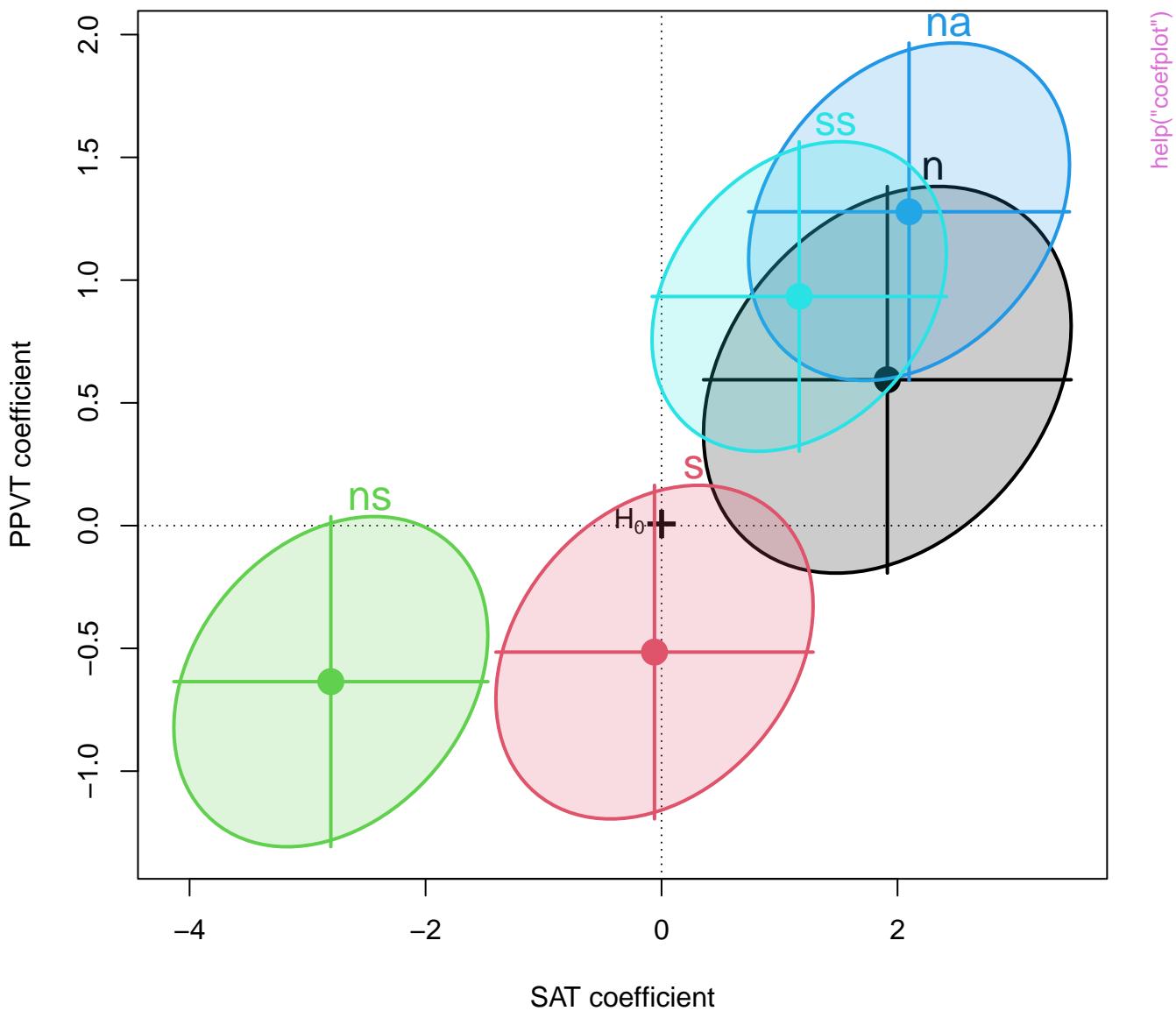
help("coefplot")

Raven coefficient

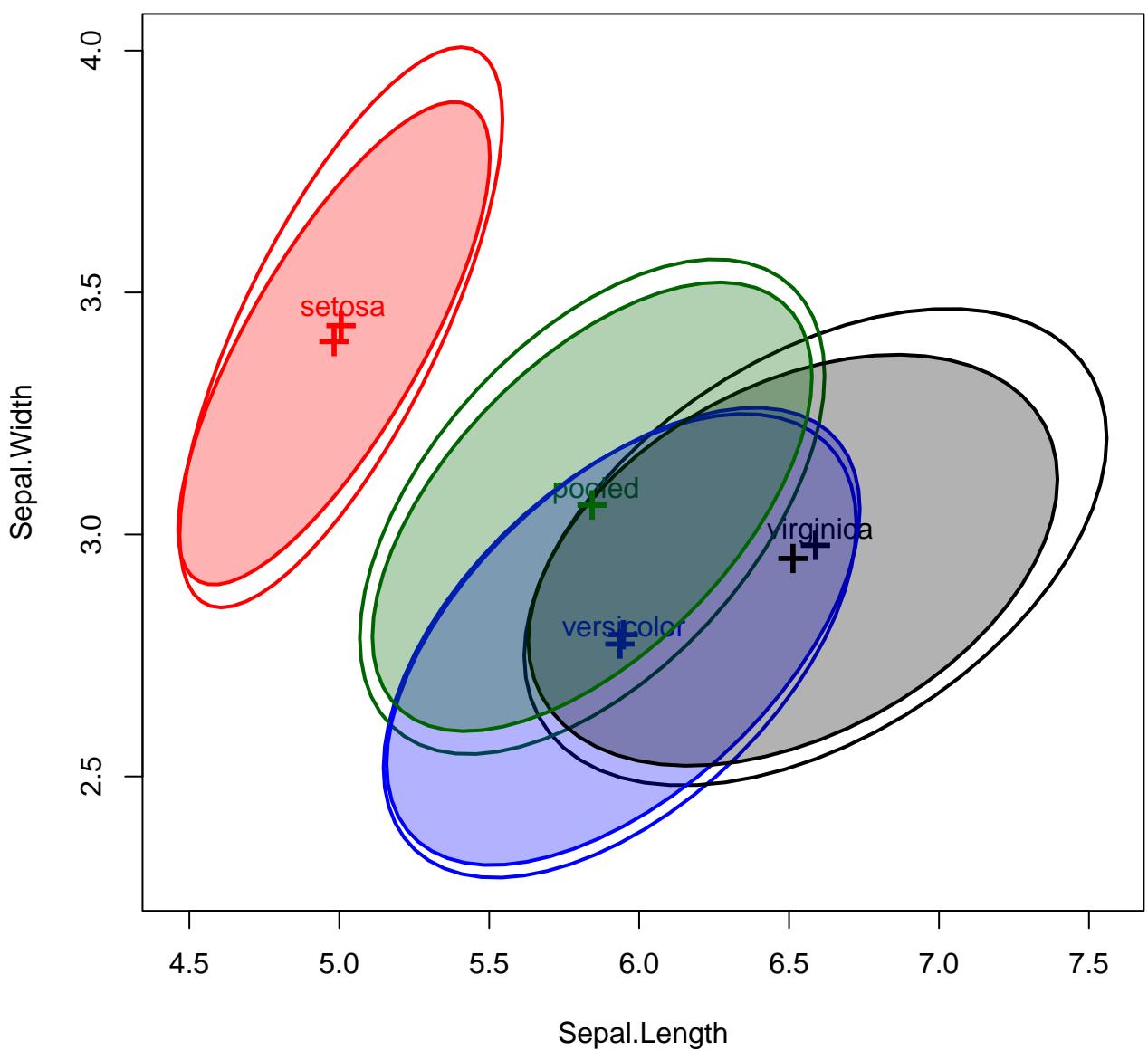


help("coefplot")

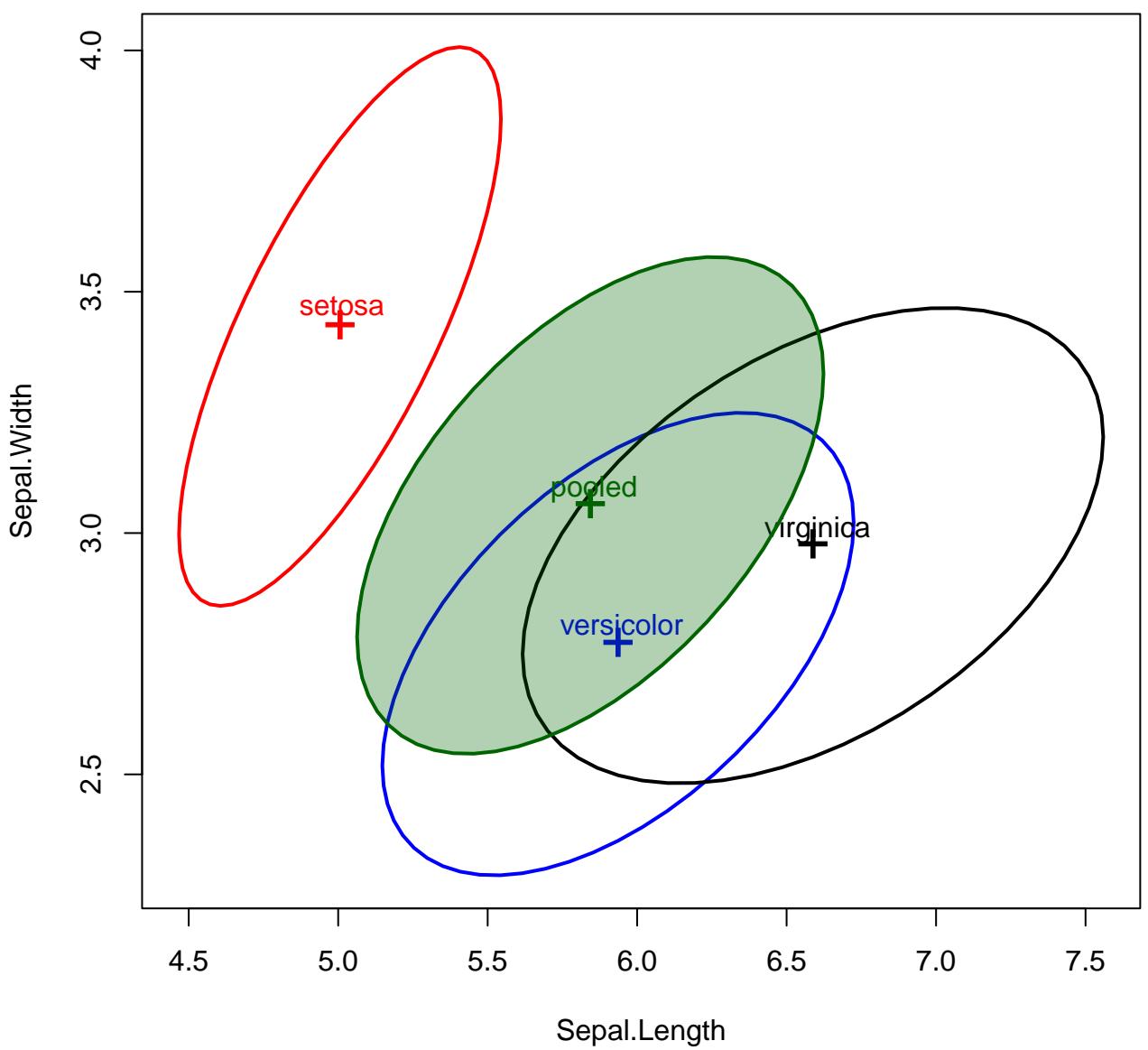
## Bivariate 68% coefficient plot for SAT and PPVT



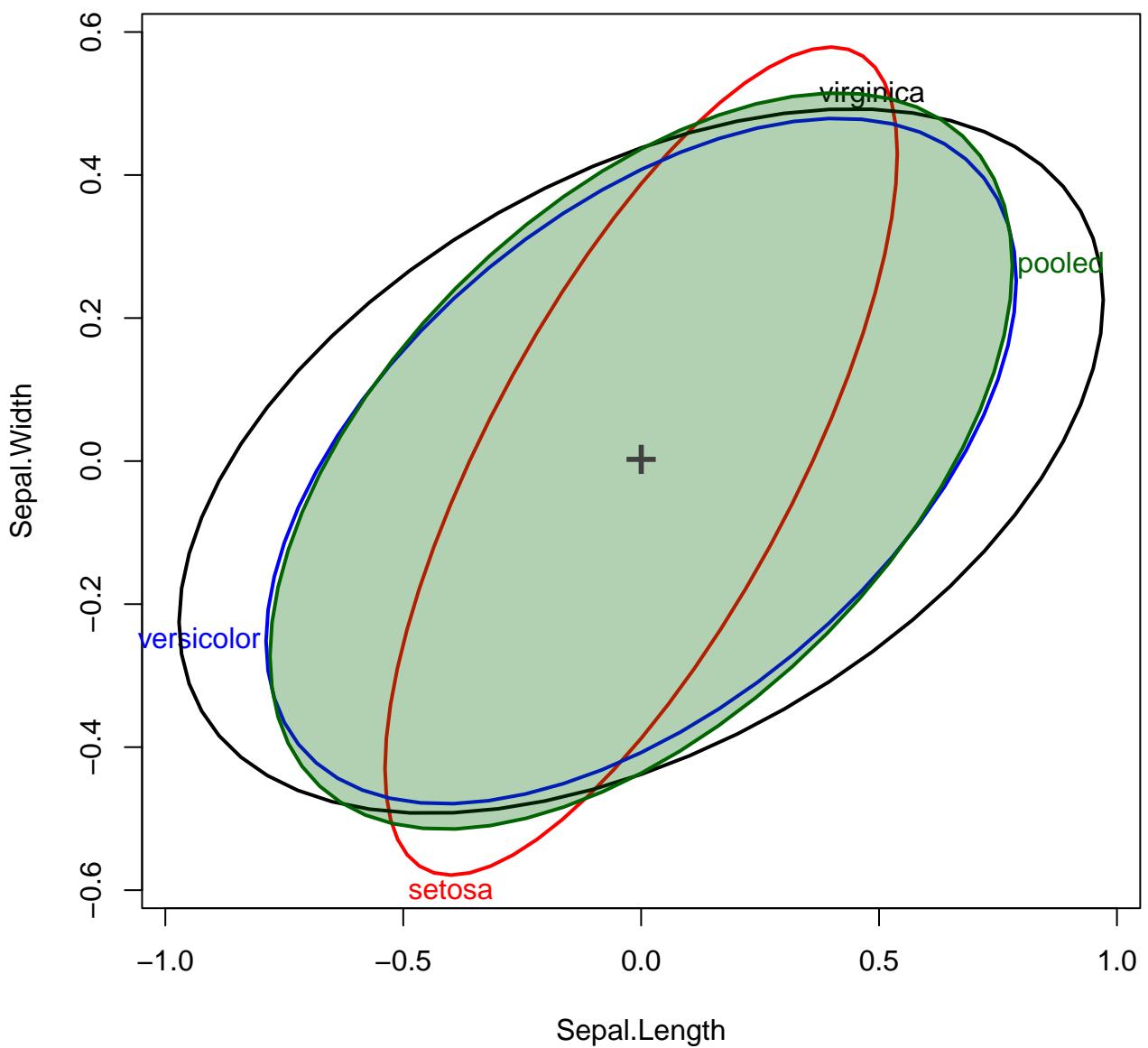
help("covEllipses")



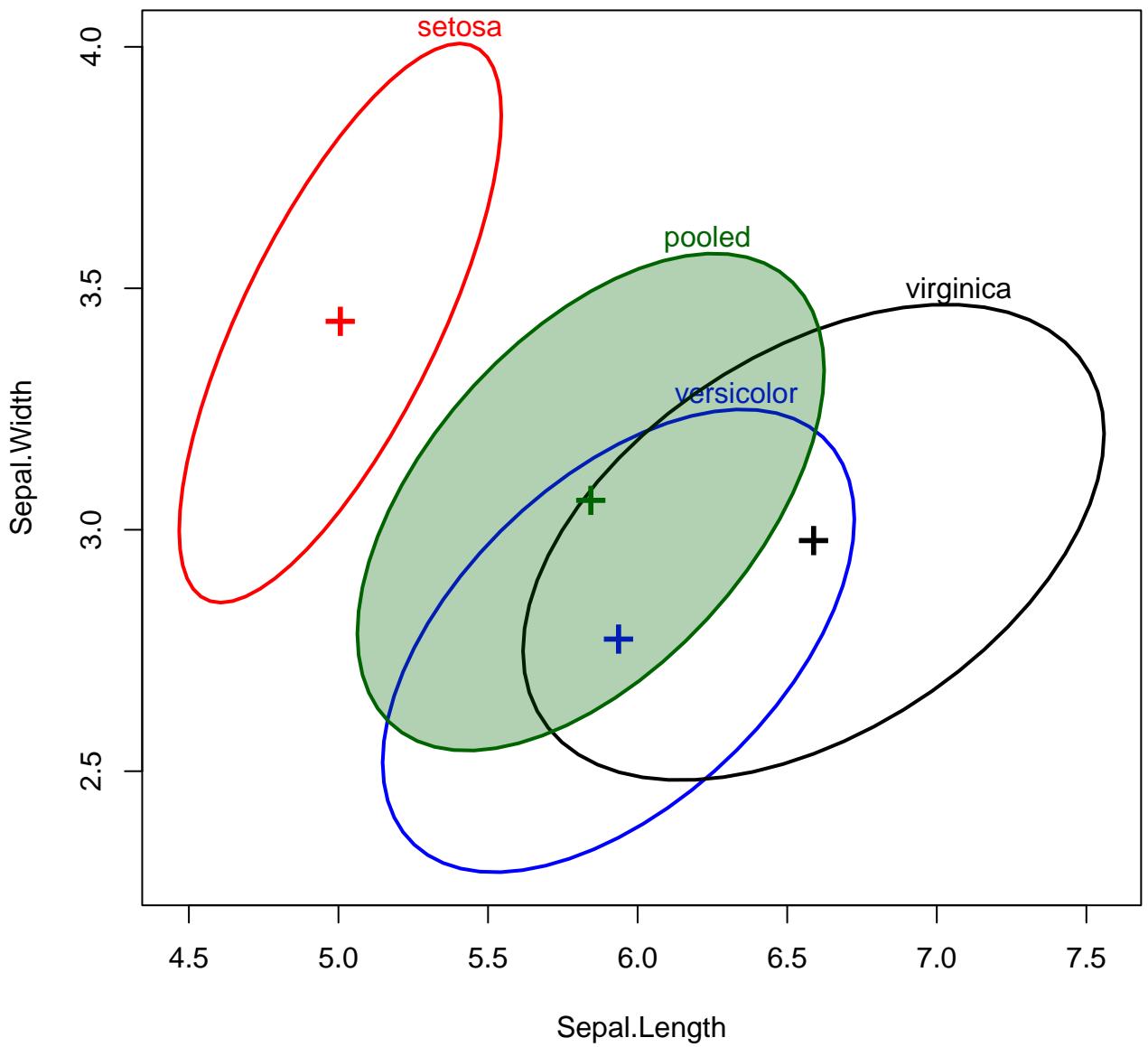
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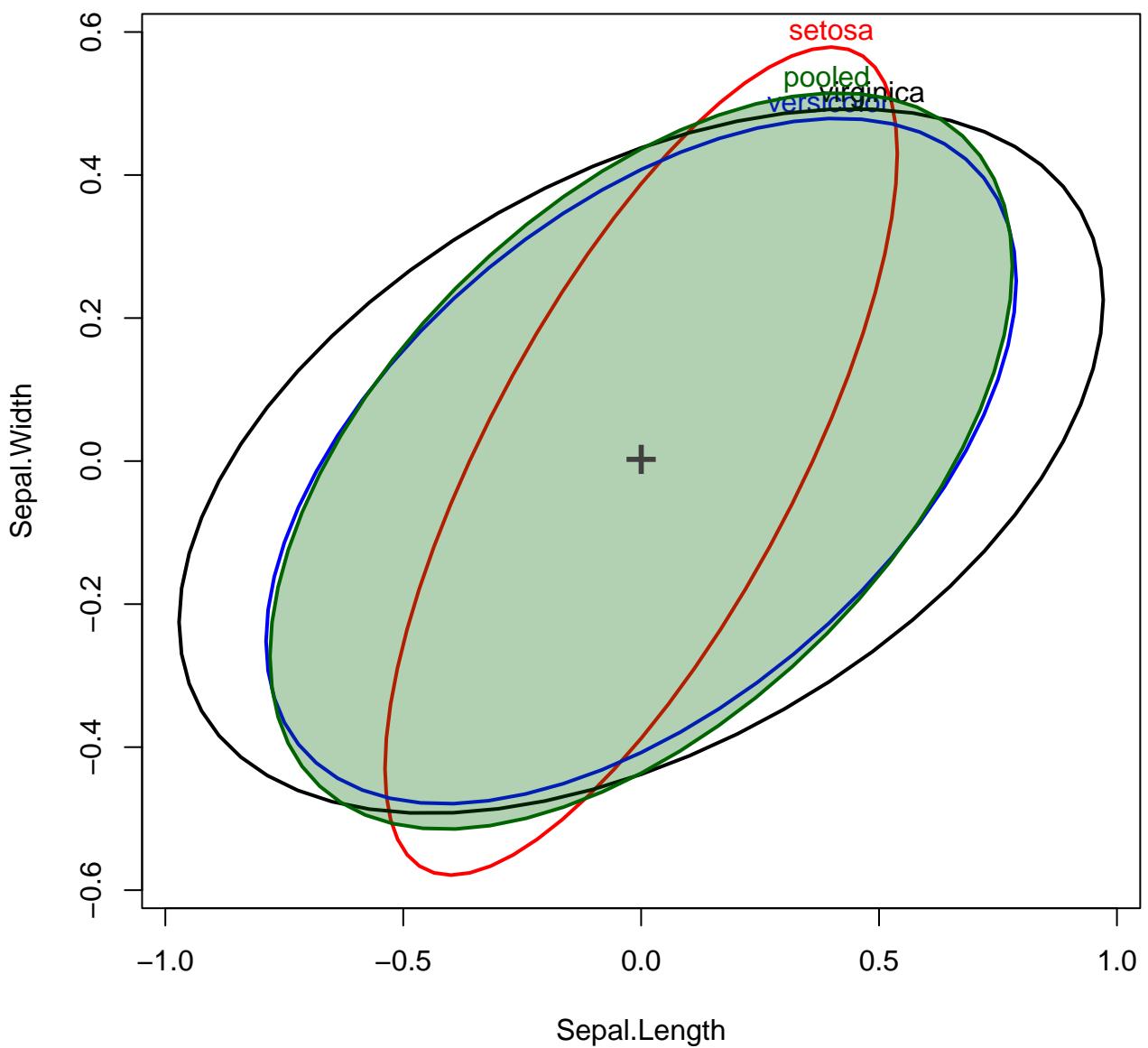
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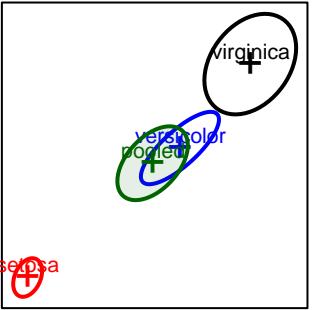
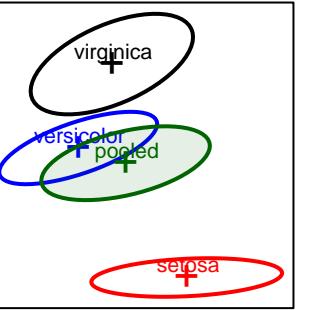
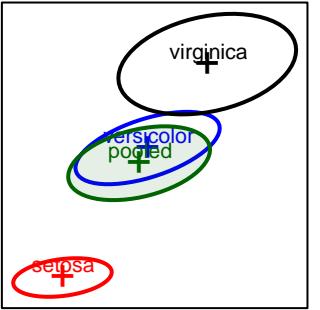
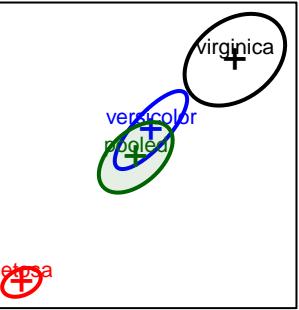
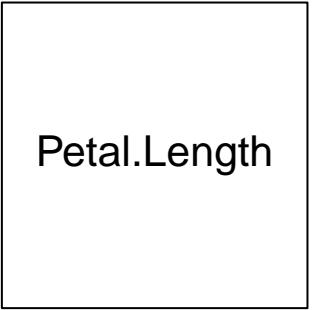
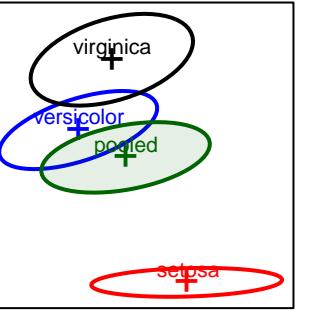
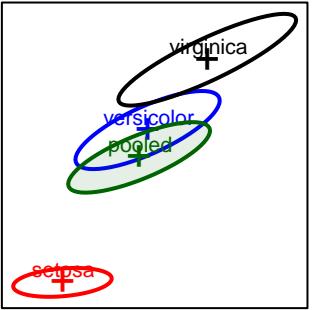
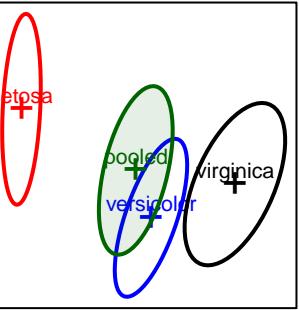
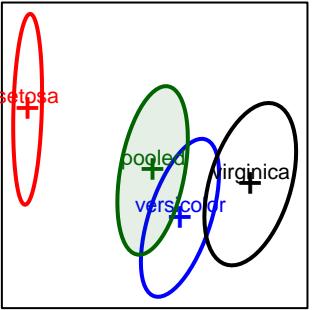
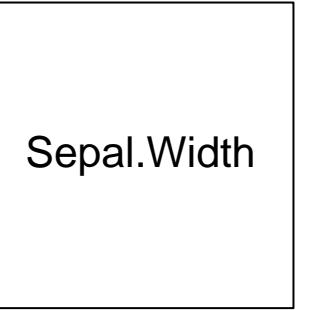
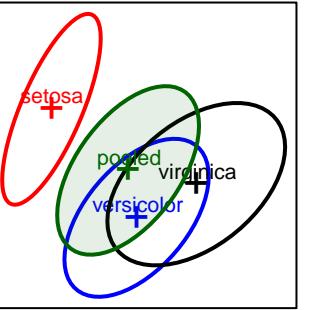
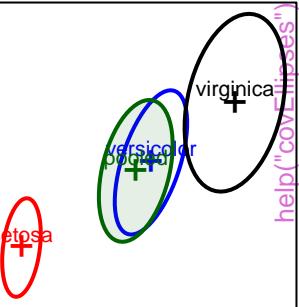
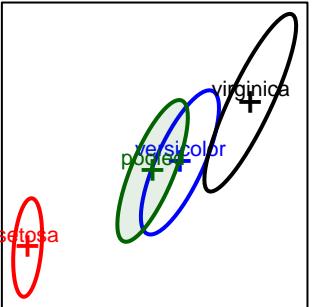
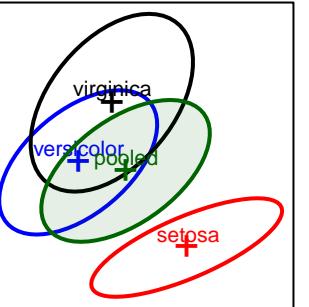
help("covEllipses")



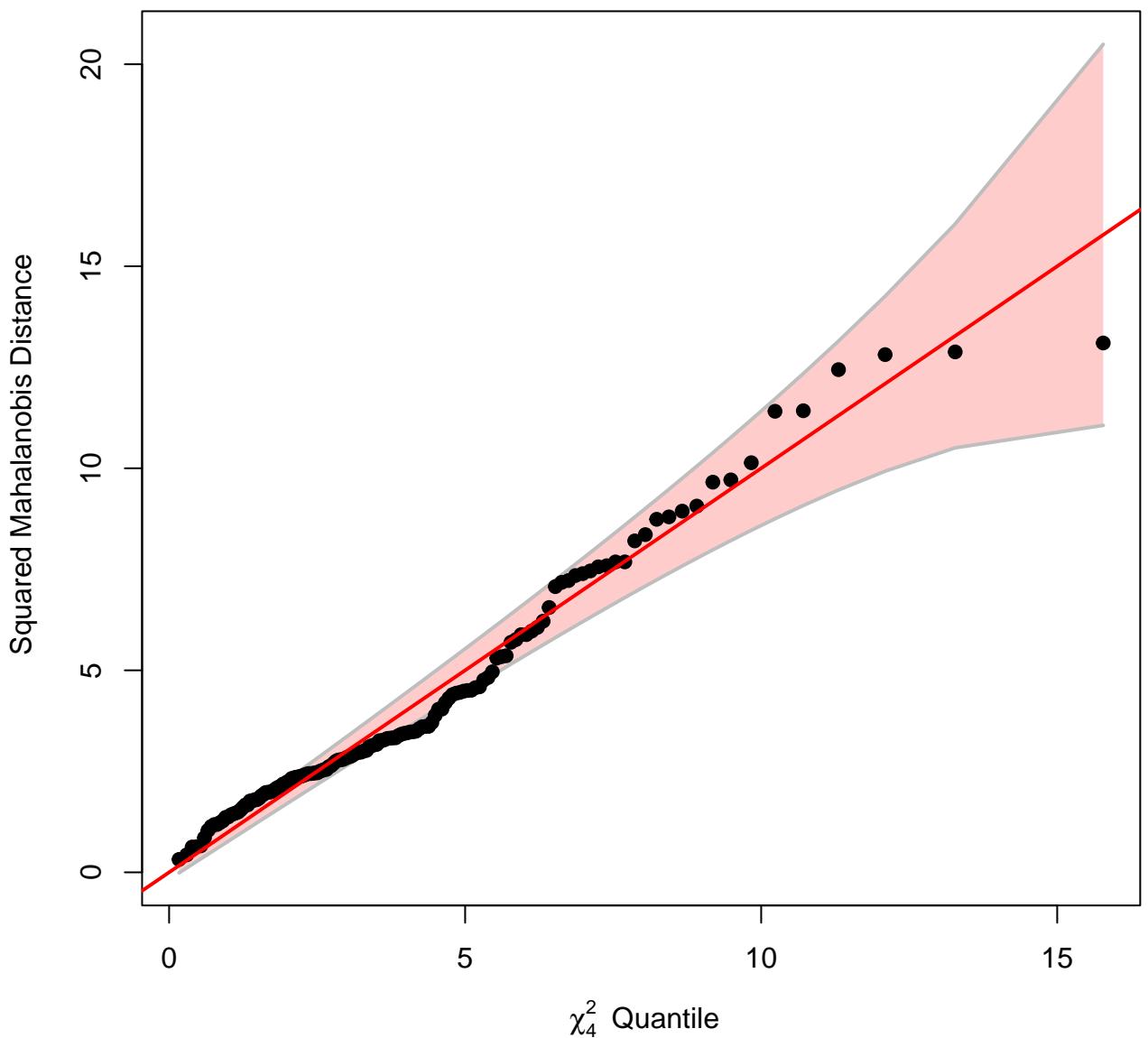
help("covEllipses")



## Sepal.Length

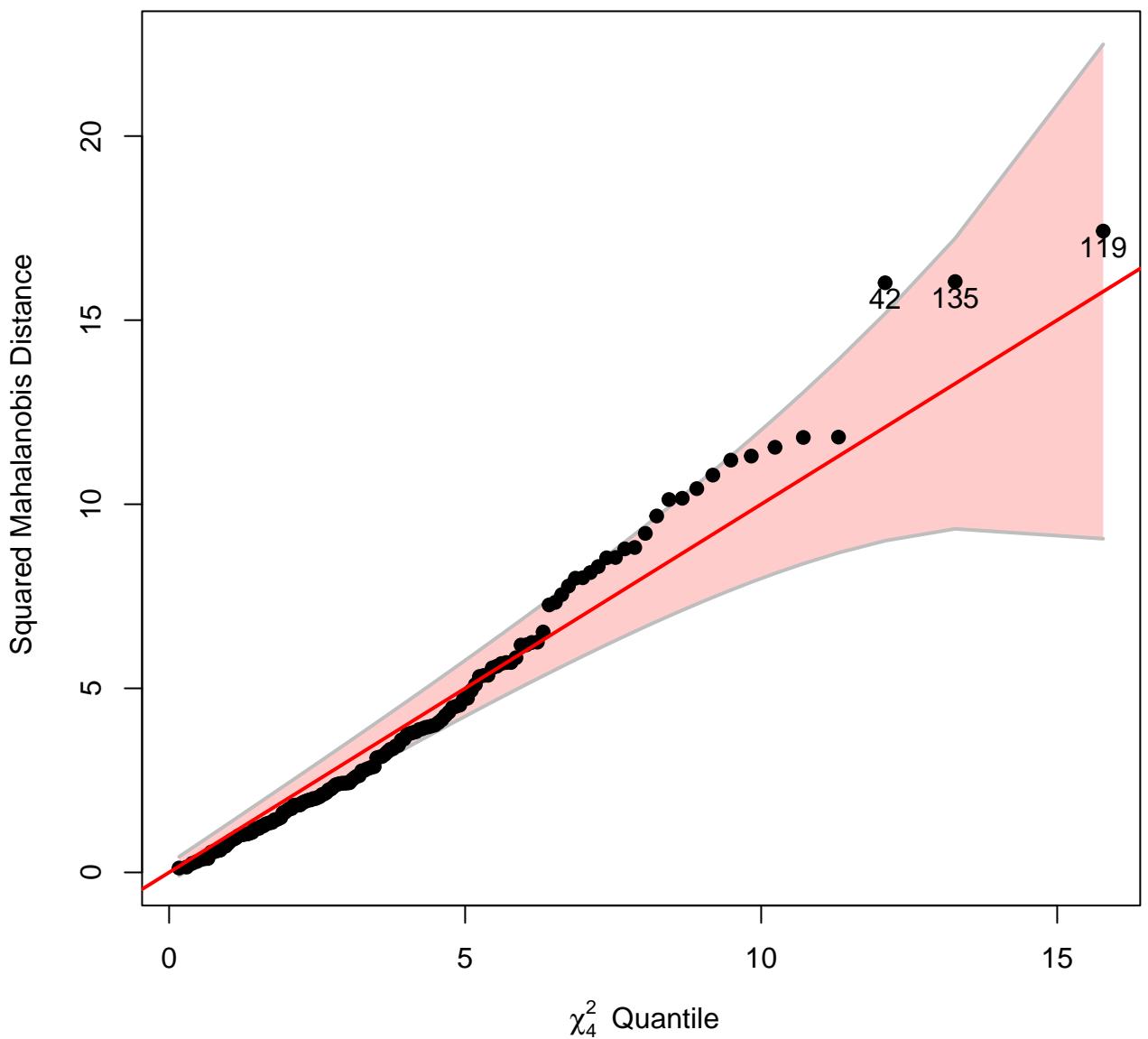


# Chi-Square Q-Q Plot of iris[, 1:4]



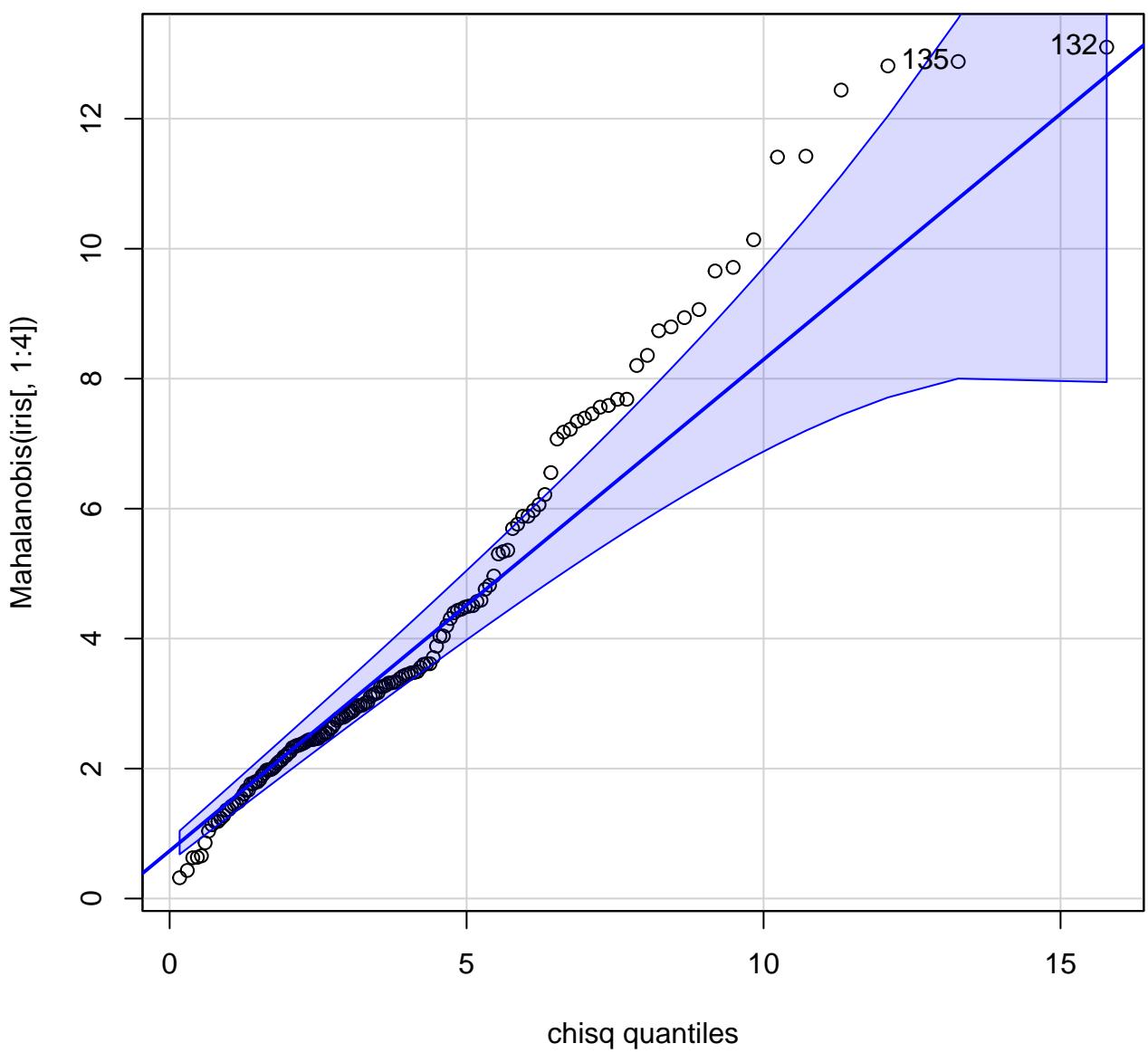
help("ccplot")

# Chi-Square Q-Q Plot of iris.mod

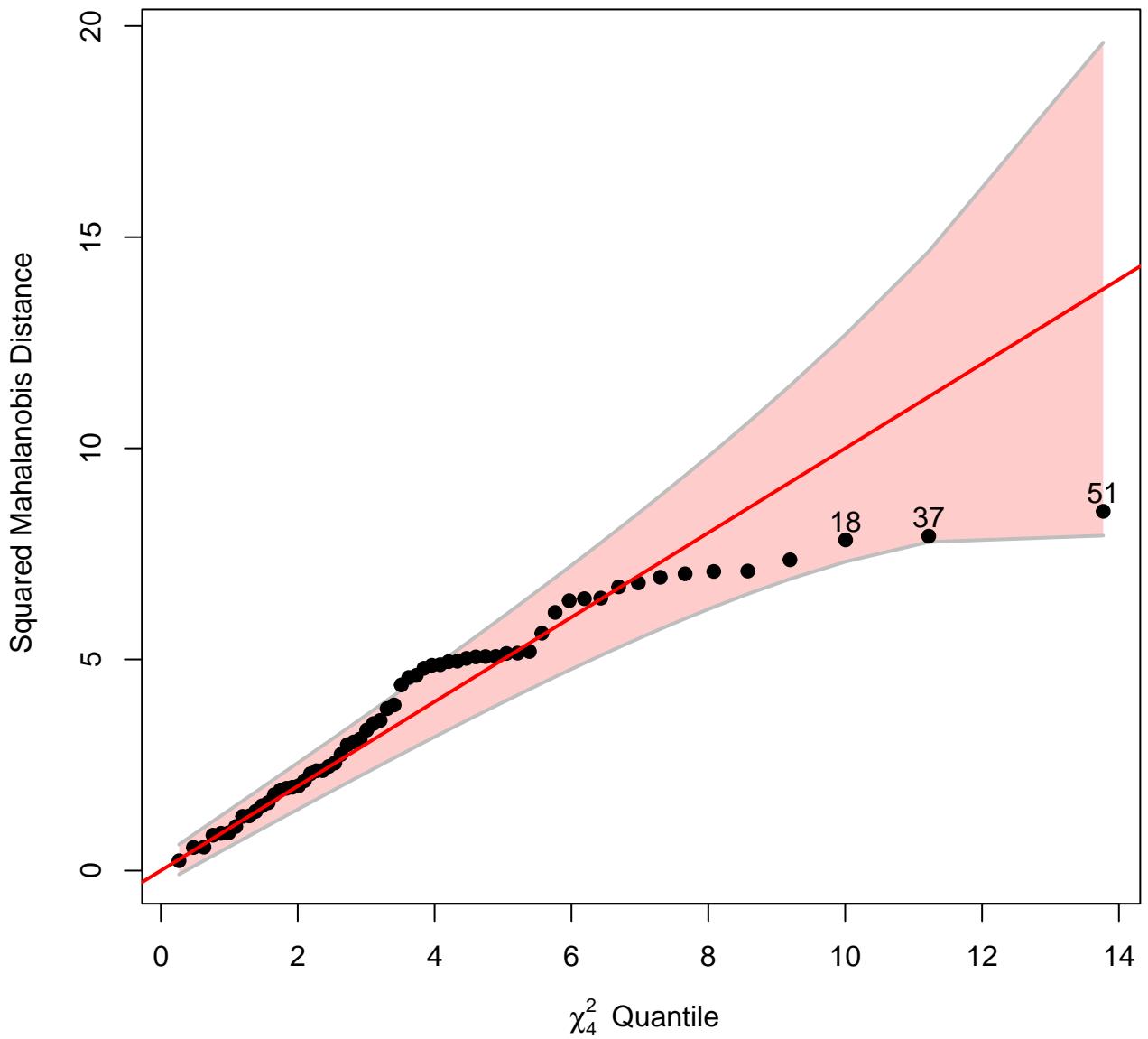


help("ccplot")

help("ccplot")

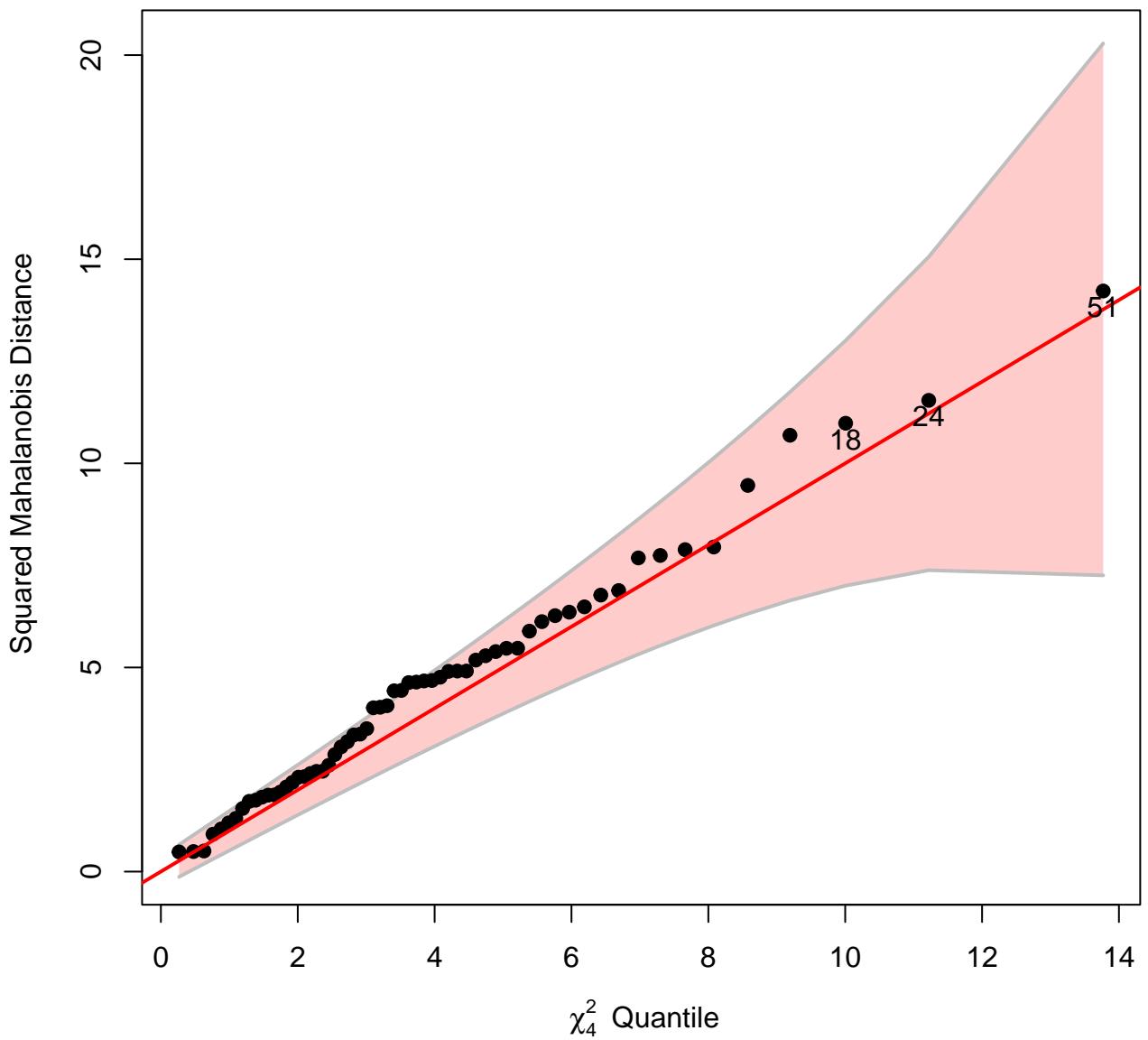


# Chi-Square Q-Q Plot of Adopted.mod



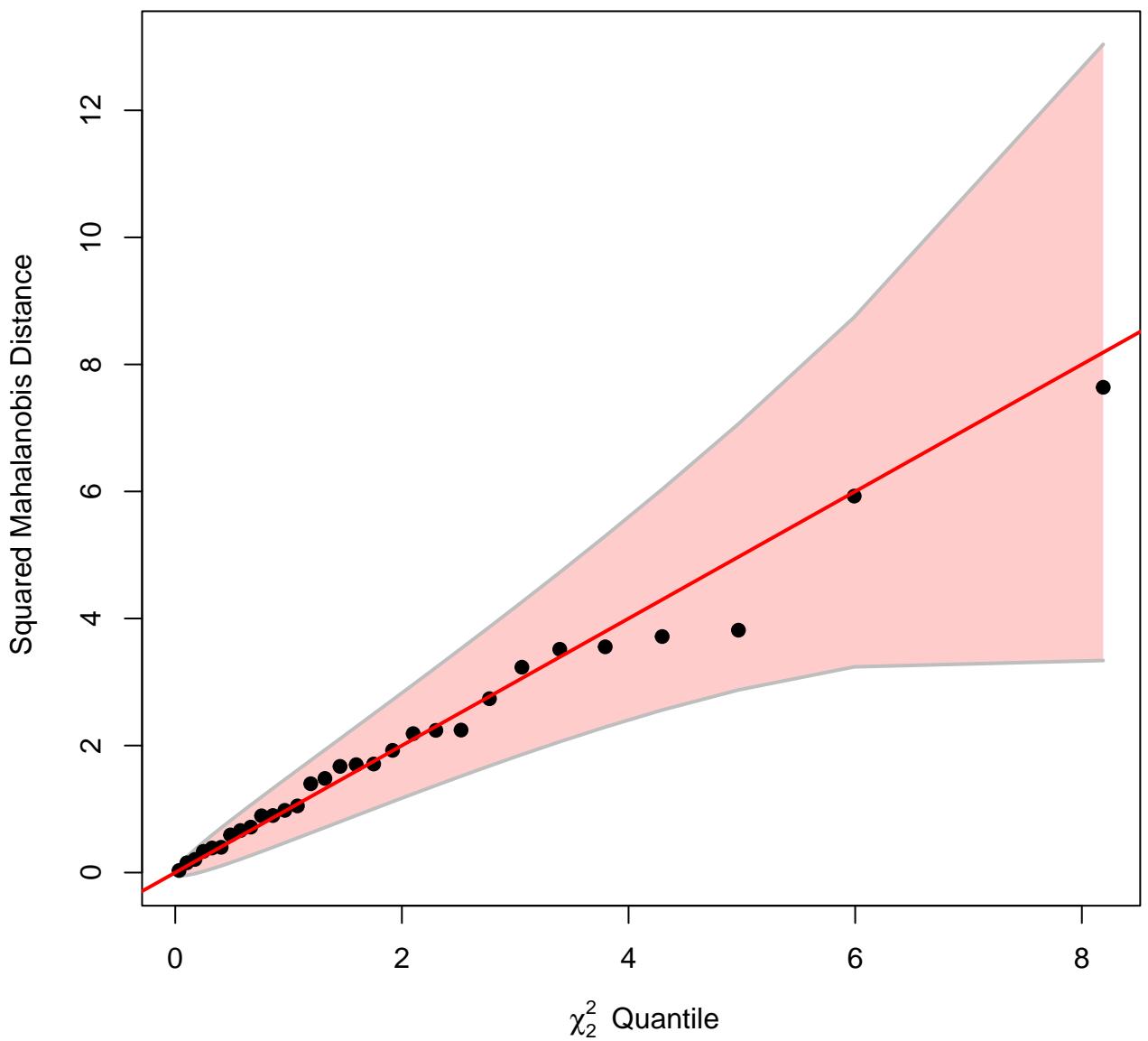
help("ccplot")

# Chi-Square Q-Q Plot of Adopted.mod



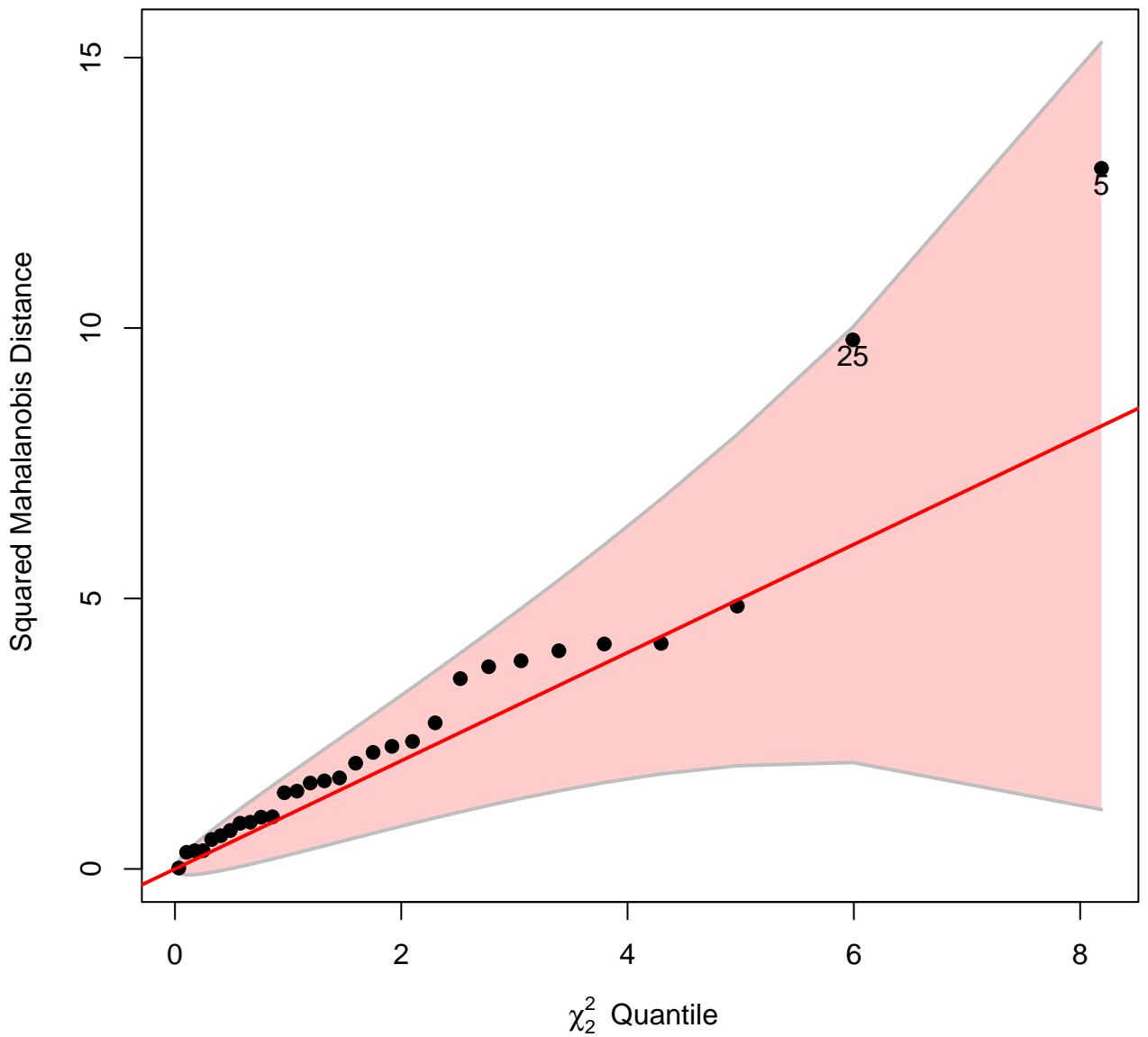
help("ccplot")

# Chi-Square Q-Q Plot of Sake.mod



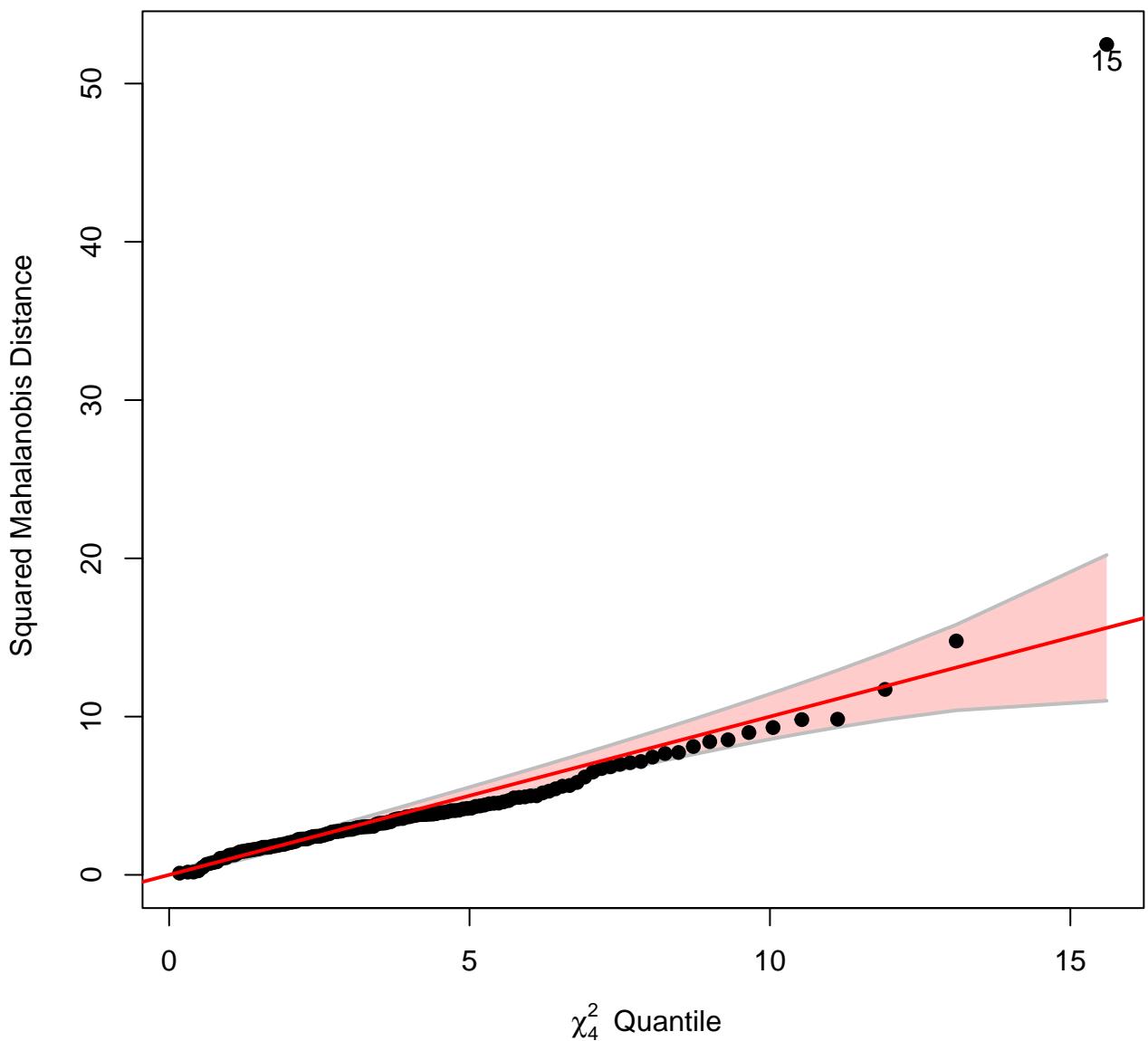
help("ccplot")

# Chi-Square Q-Q Plot of Sake.mod



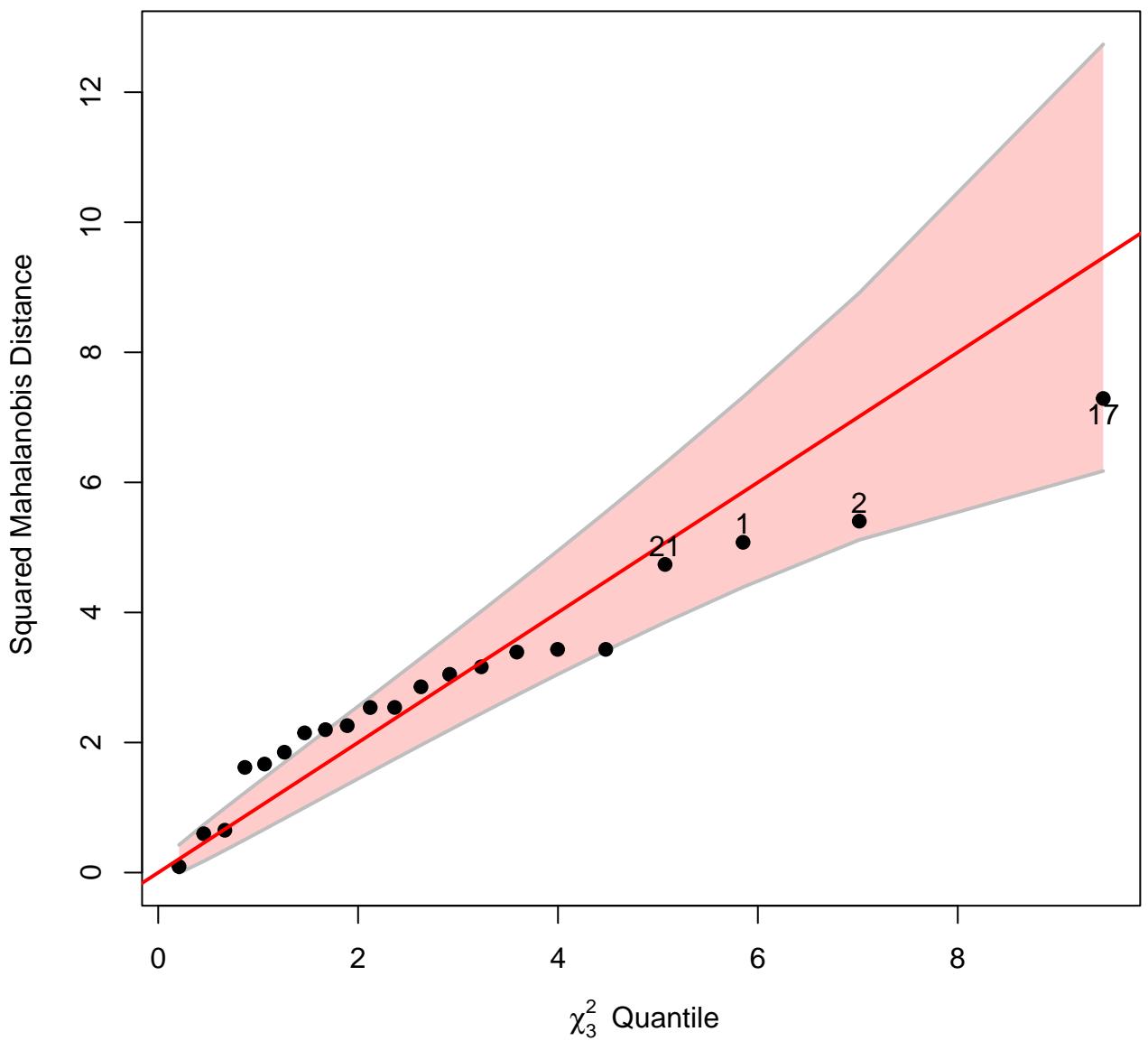
help("ccplot")

# Chi-Square Q-Q Plot of SC.mlm



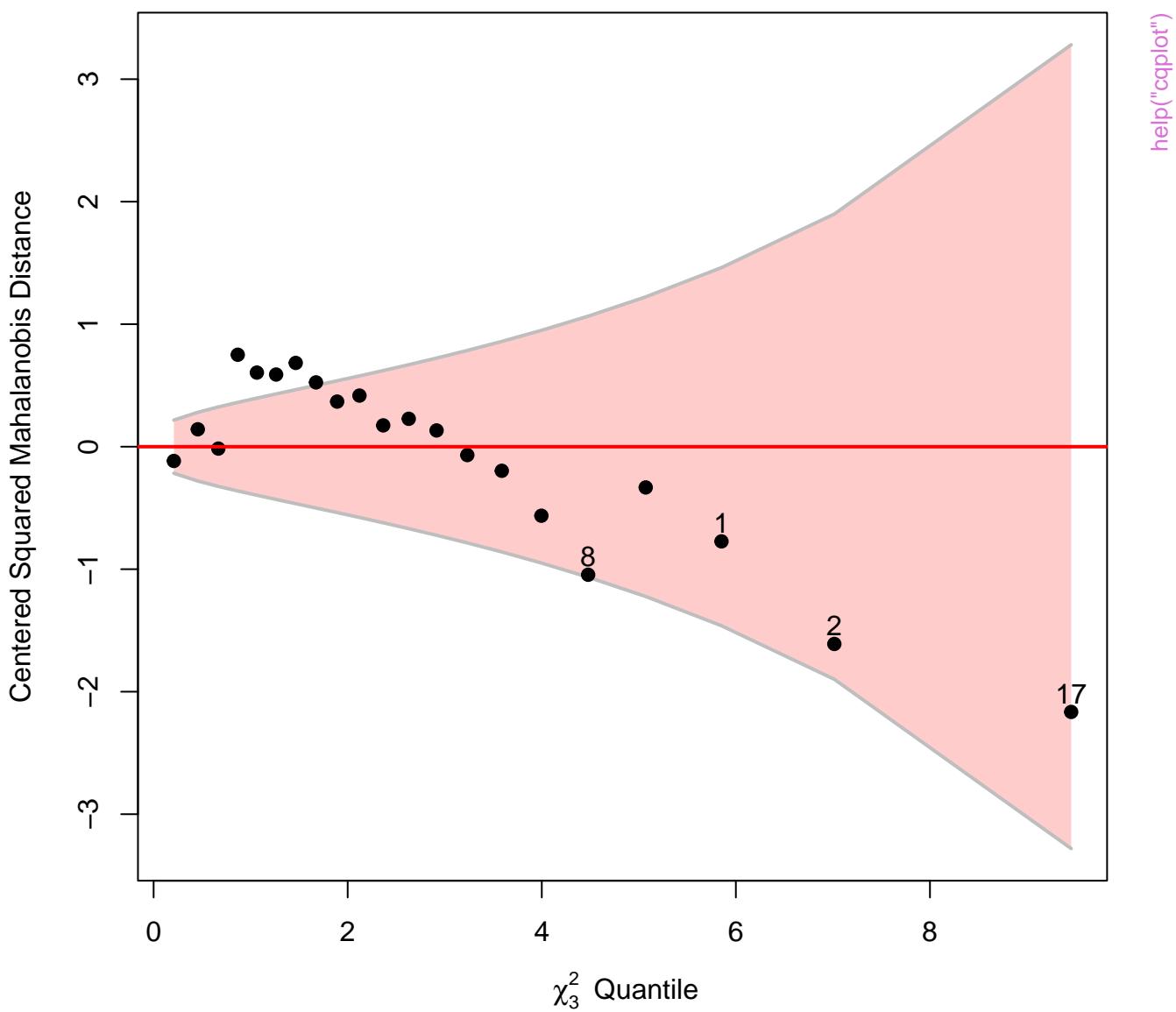
help("ccplot")

# Chi-Square Q-Q Plot of stackloss[, 1:3]

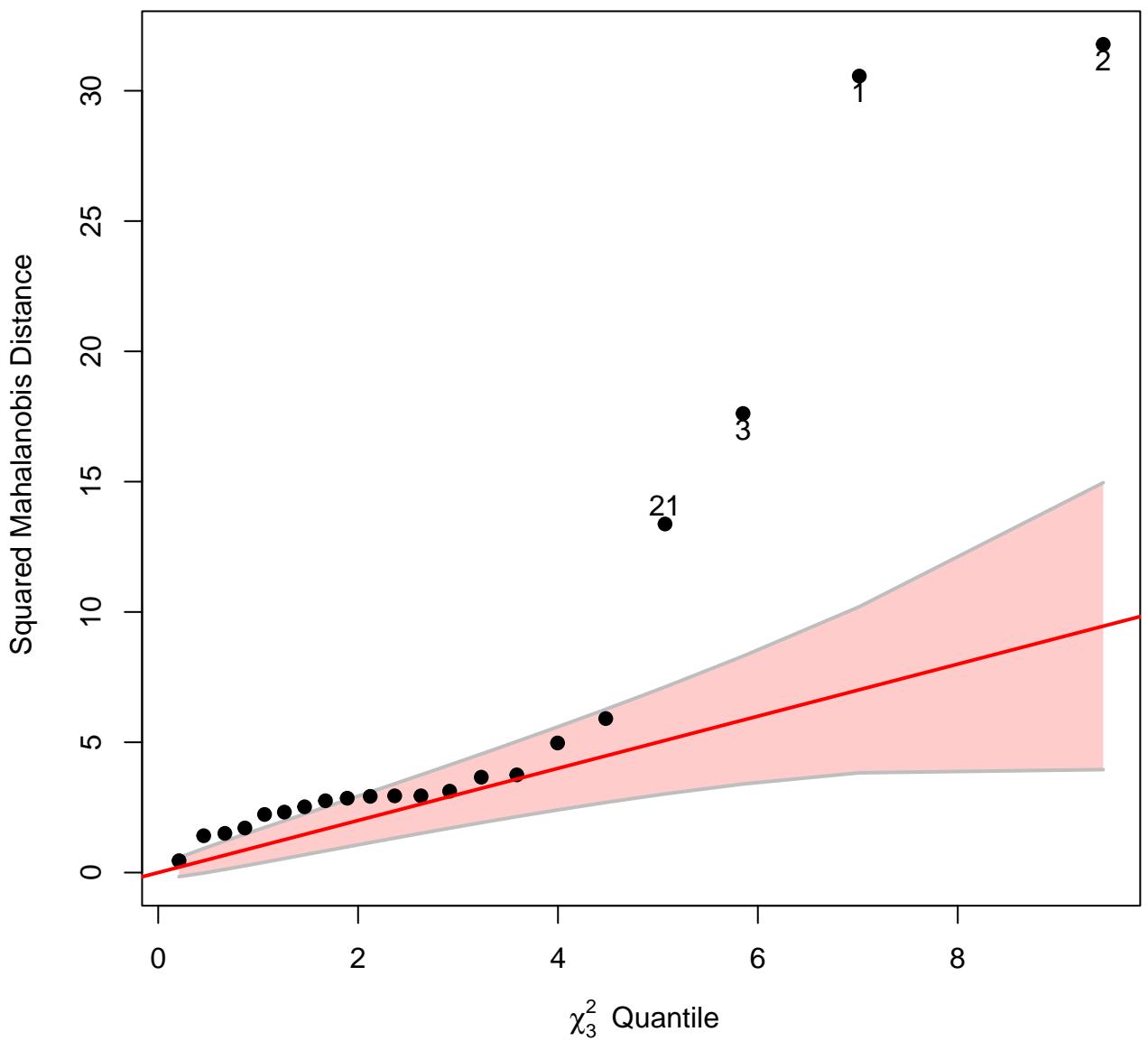


help("ccplot")

# Detrended Chi-Square Q-Q Plot of stackloss[, 1:3]

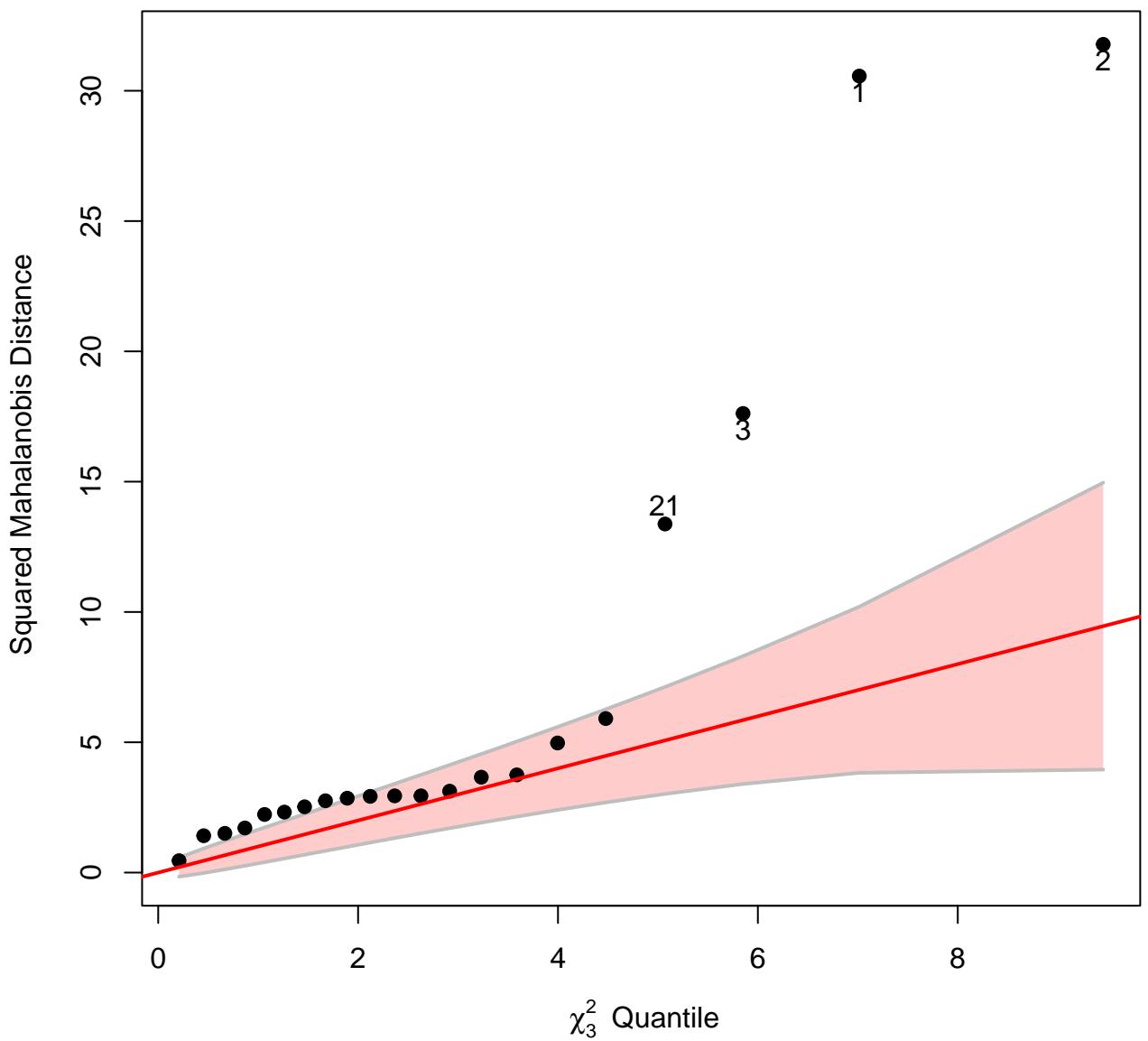


# Chi-Square Q-Q Plot of stackloss[, 1:3]



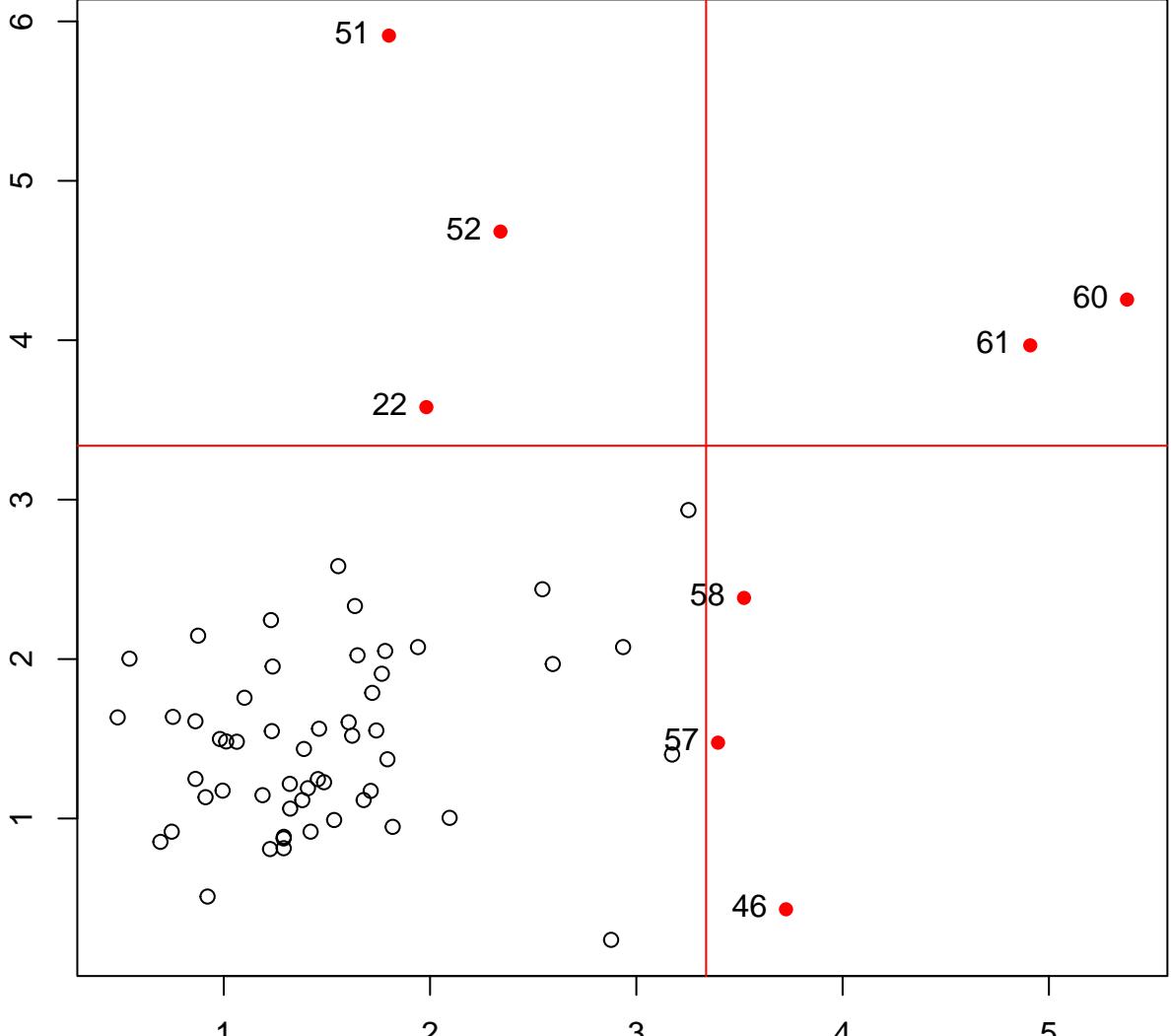
help("ccplot")

# Chi-Square Q-Q Plot of stackloss[, 1:3]

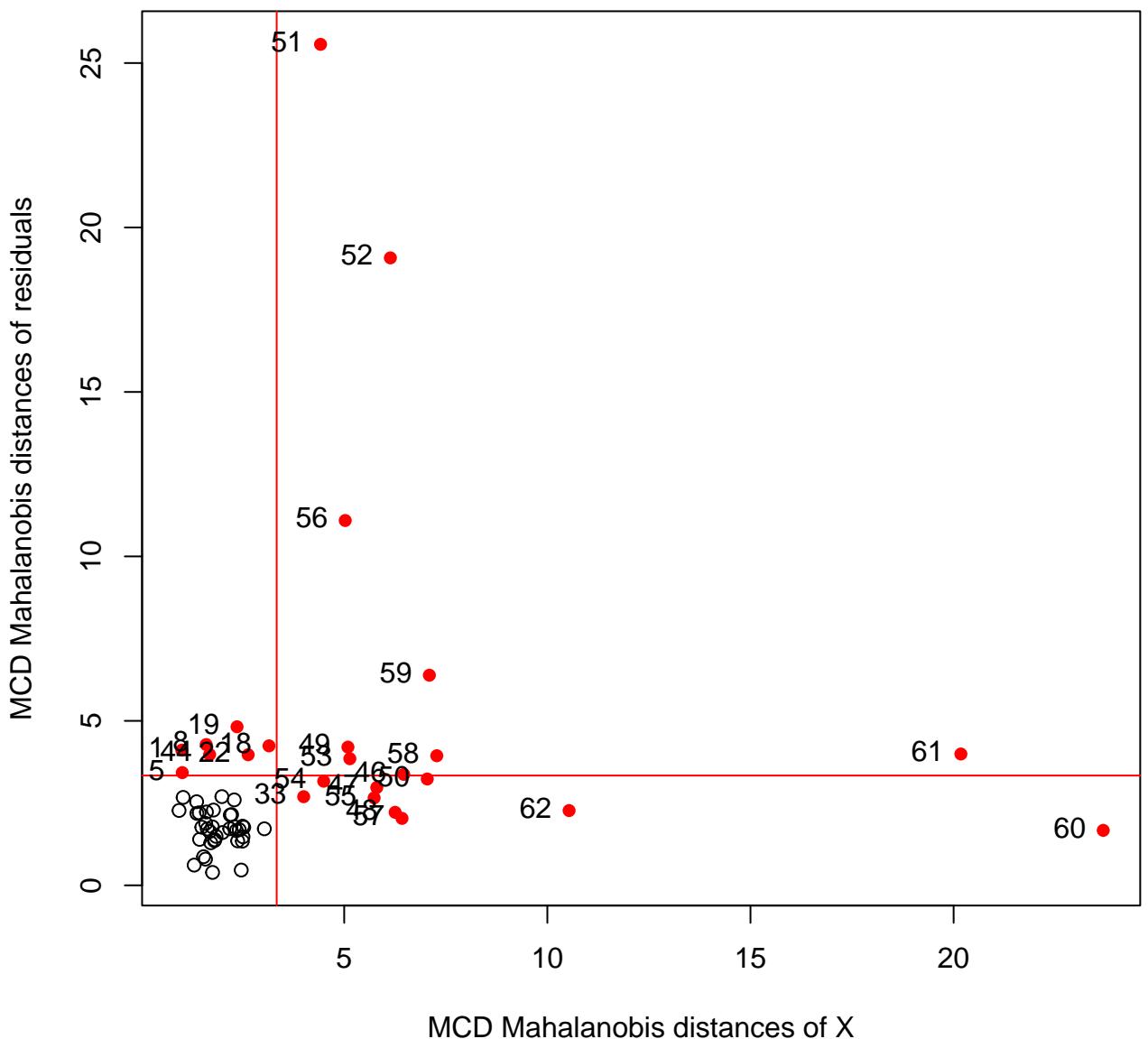


help("ccplot")

Classical Mahalanobis distances of pulpfiber[, 5:8]



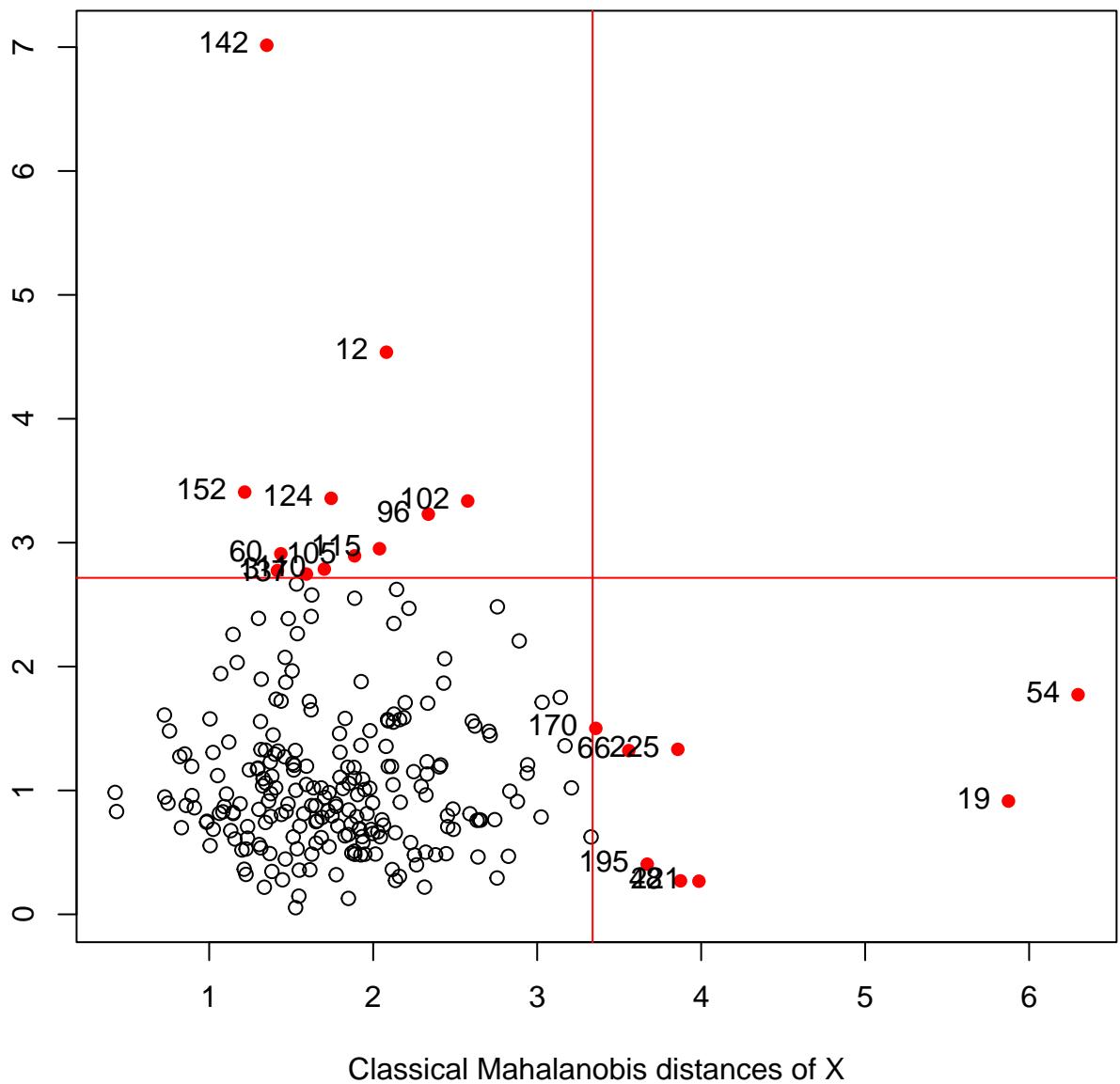
help("distancePlot")



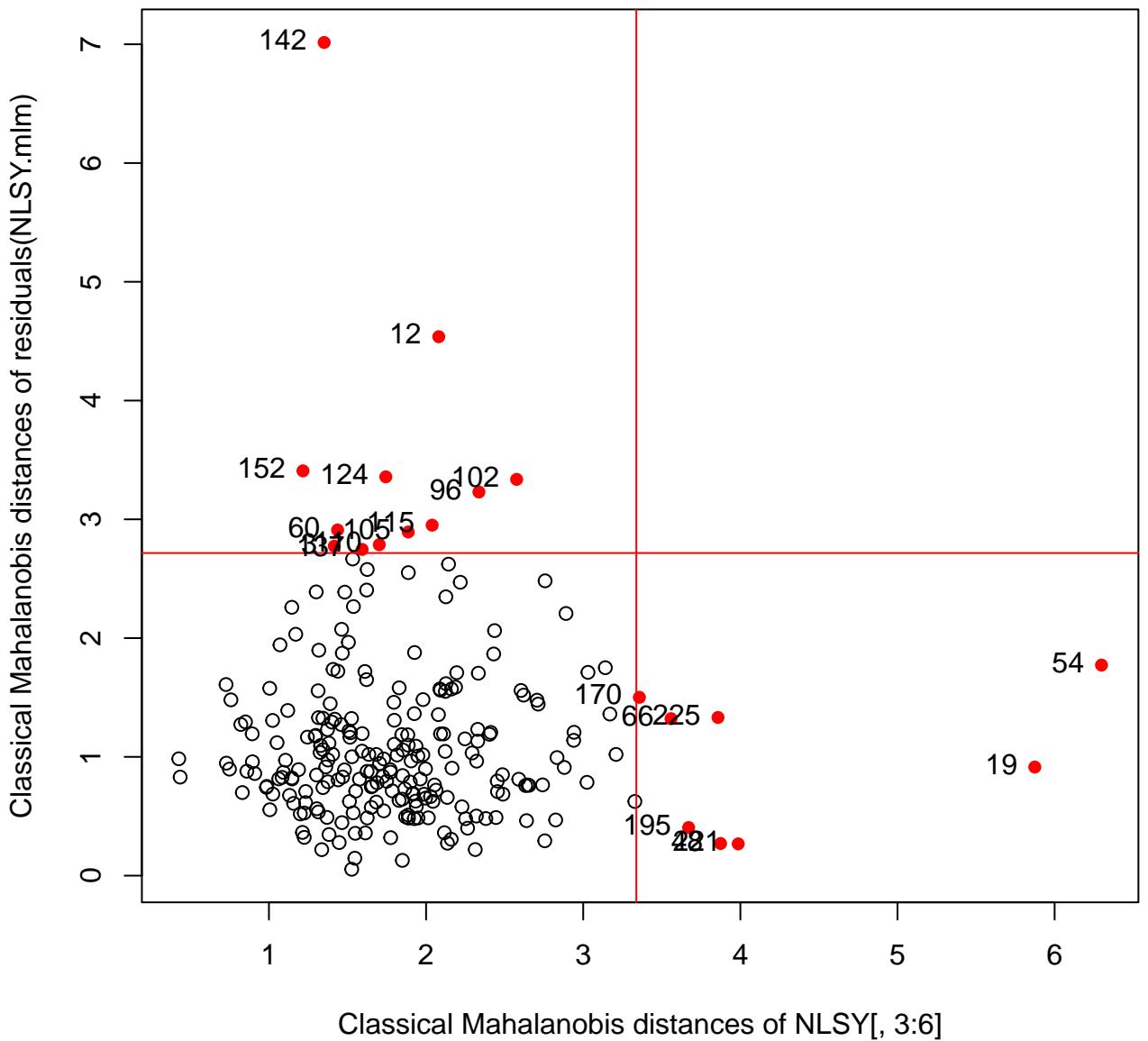
```
help("distancePlot")
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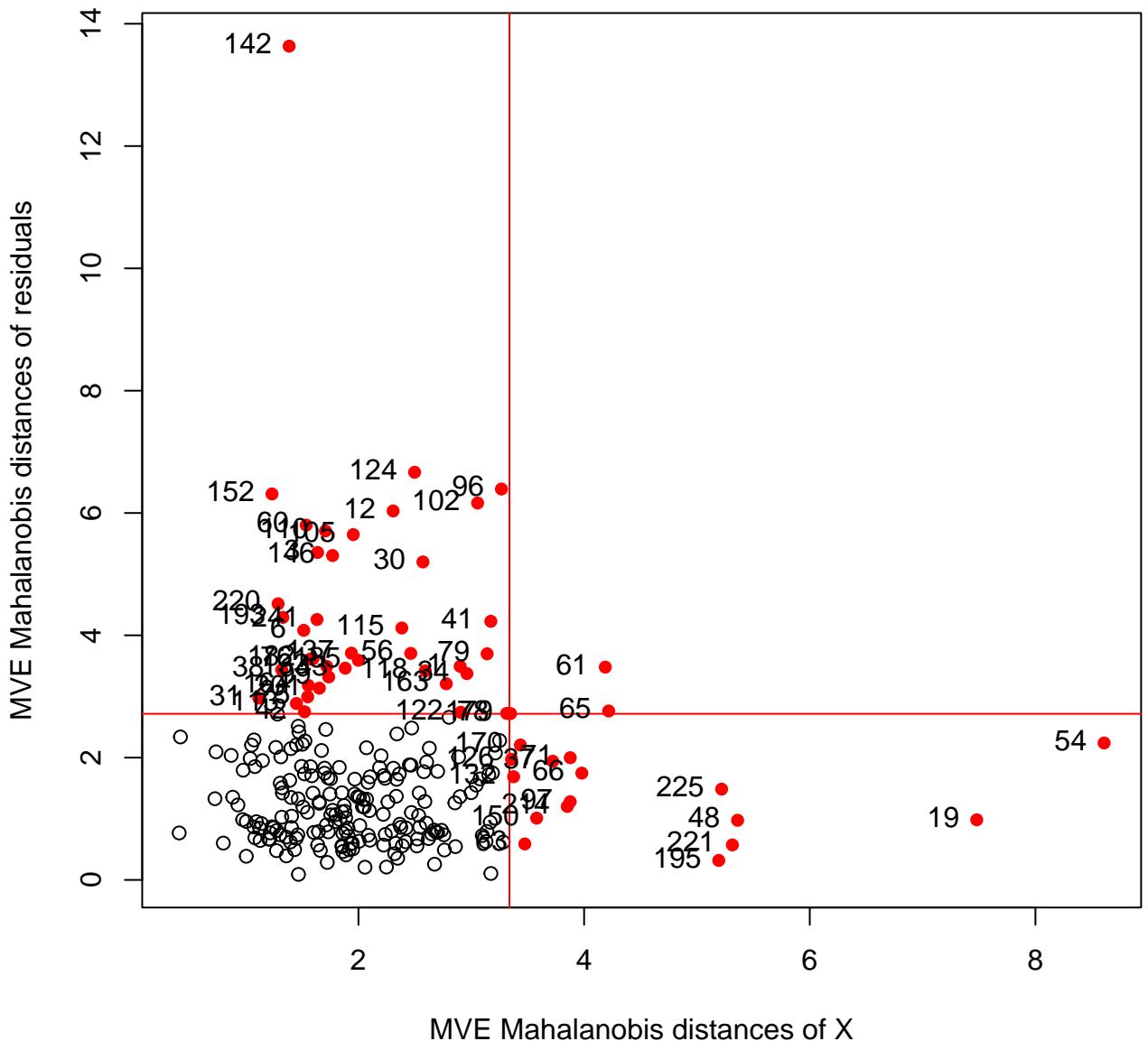
help("distancePlot")

Classical Mahalanobis distances of residuals

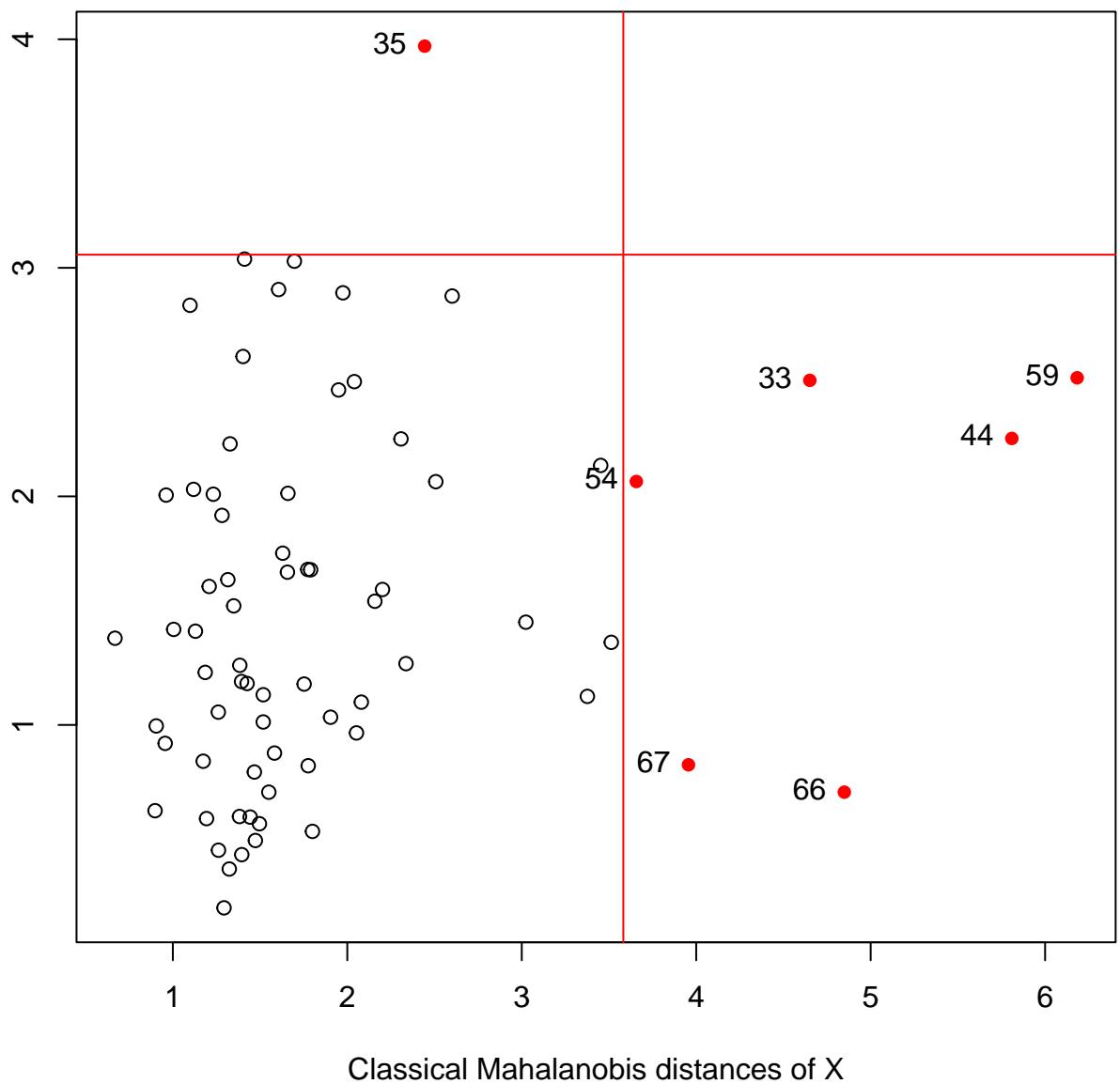


help("distancePlot")



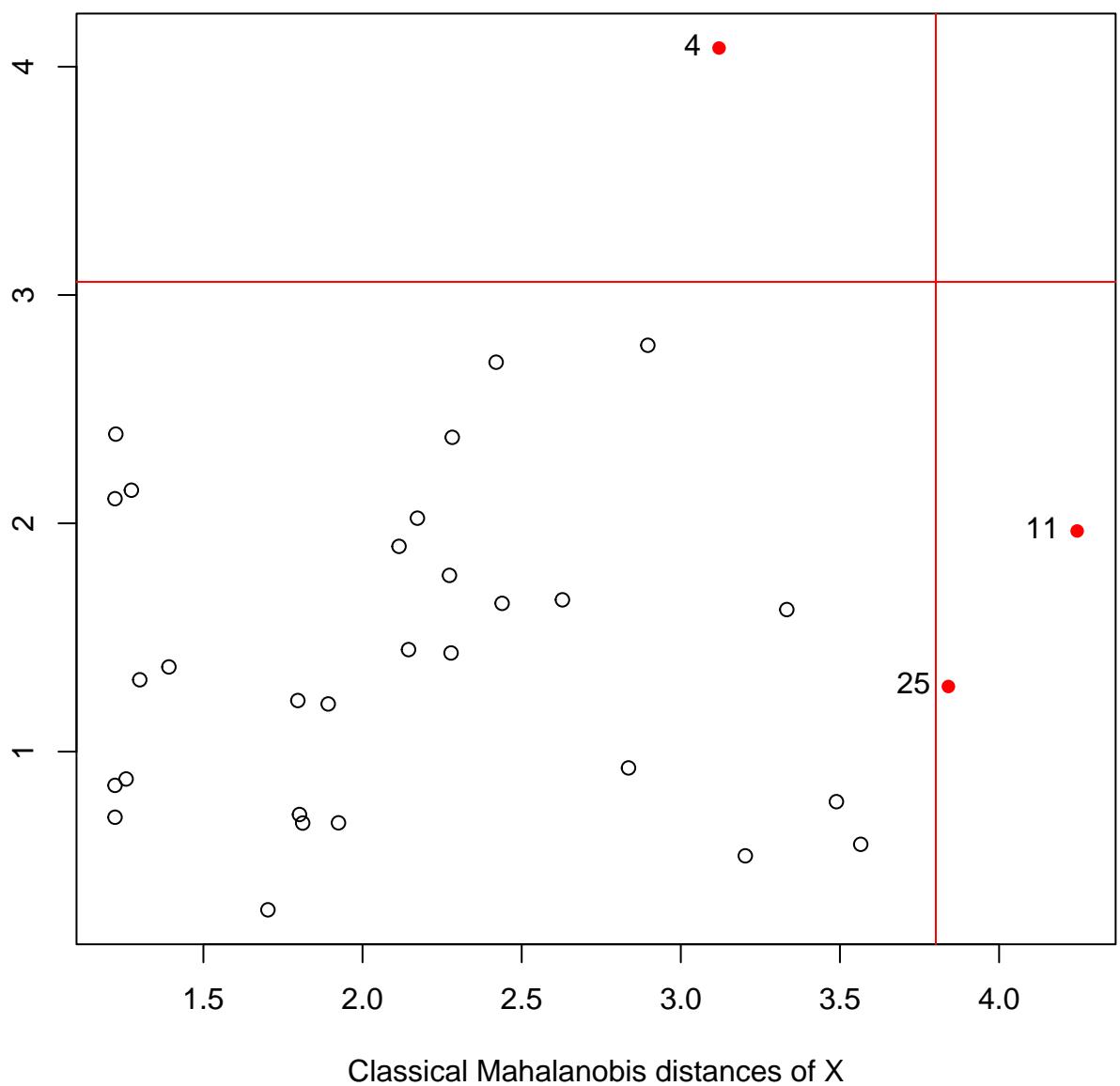


Classical Mahalanobis distances of residuals

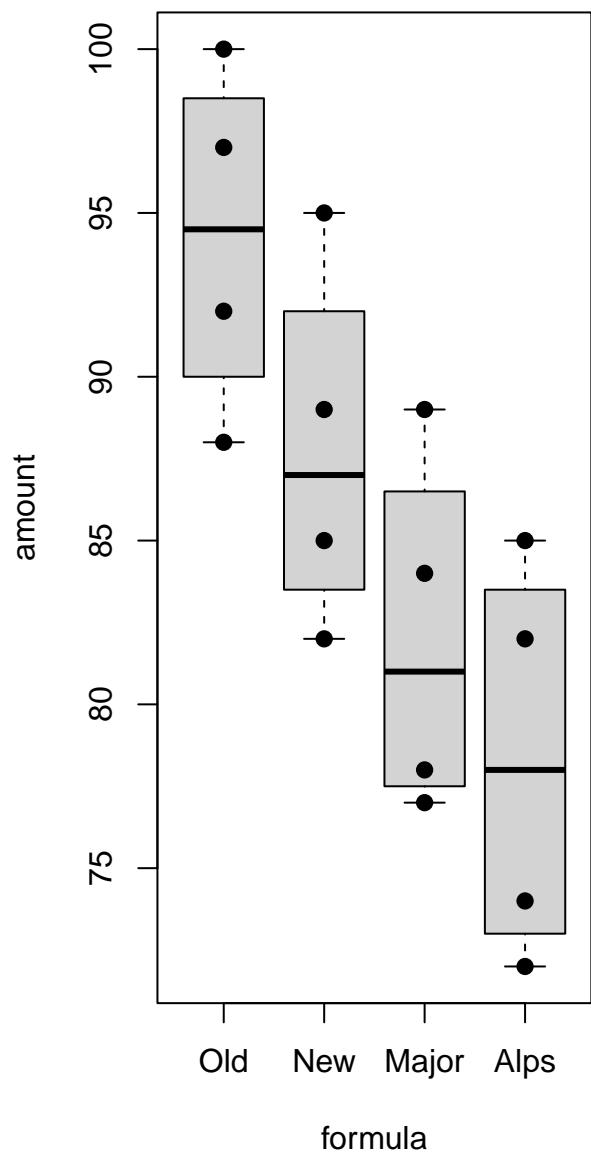
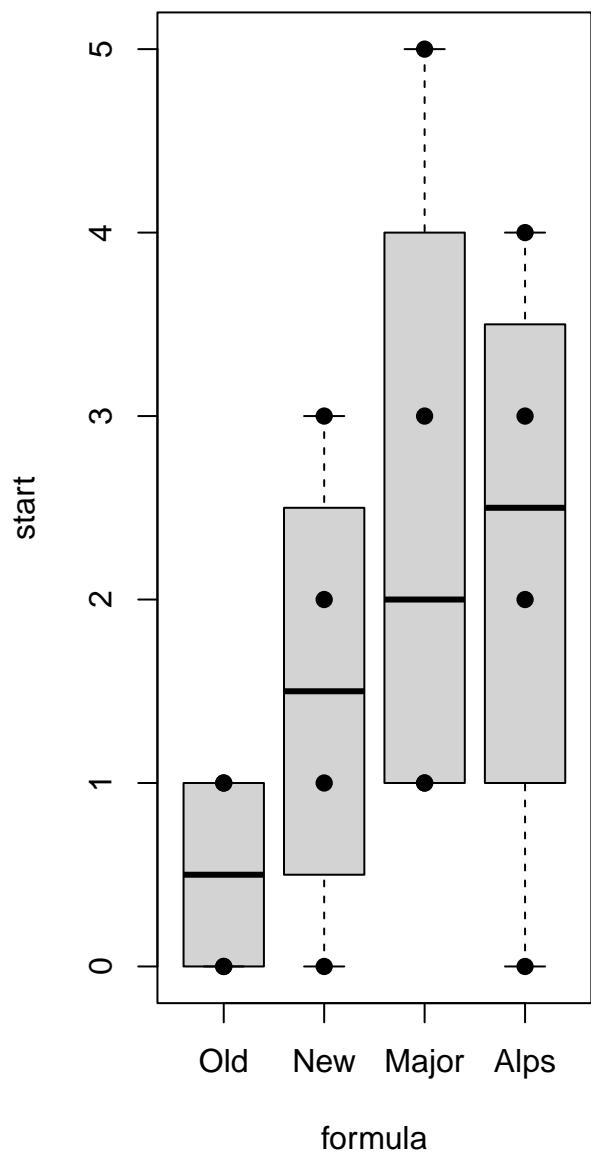


help("distancePlot")

Classical Mahalanobis distances of residuals

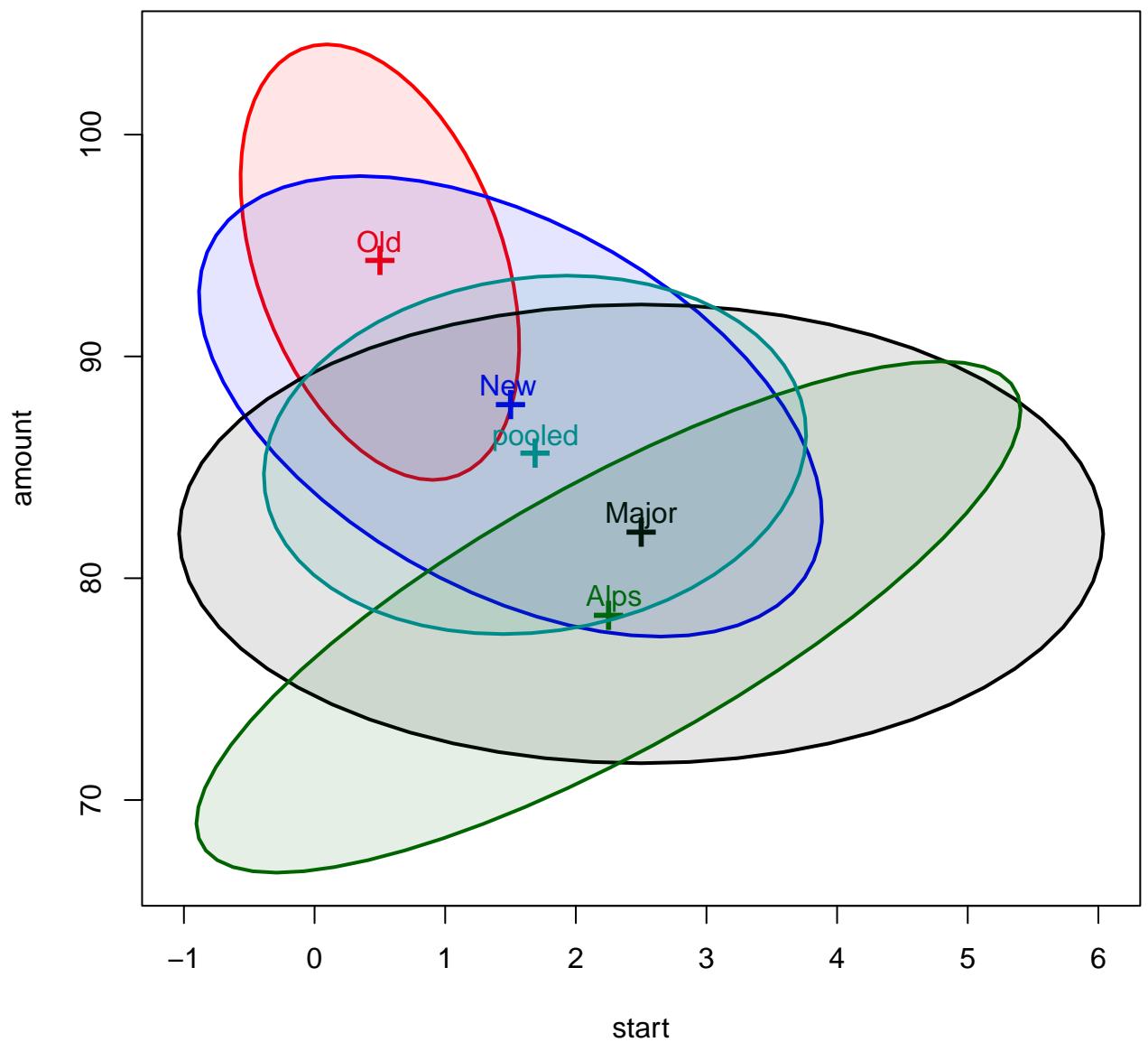


help("distancePlot")

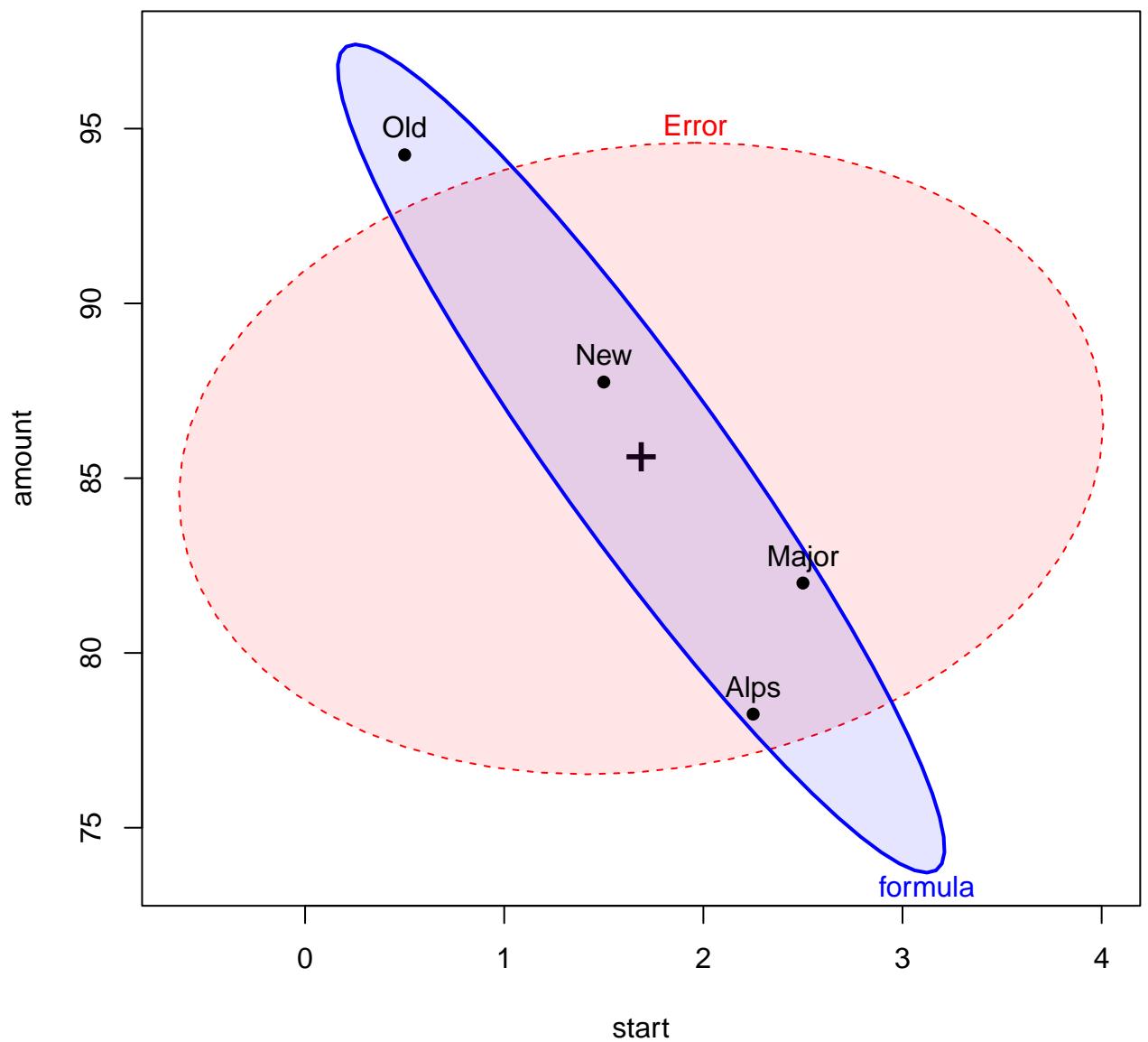


help("dogfood")

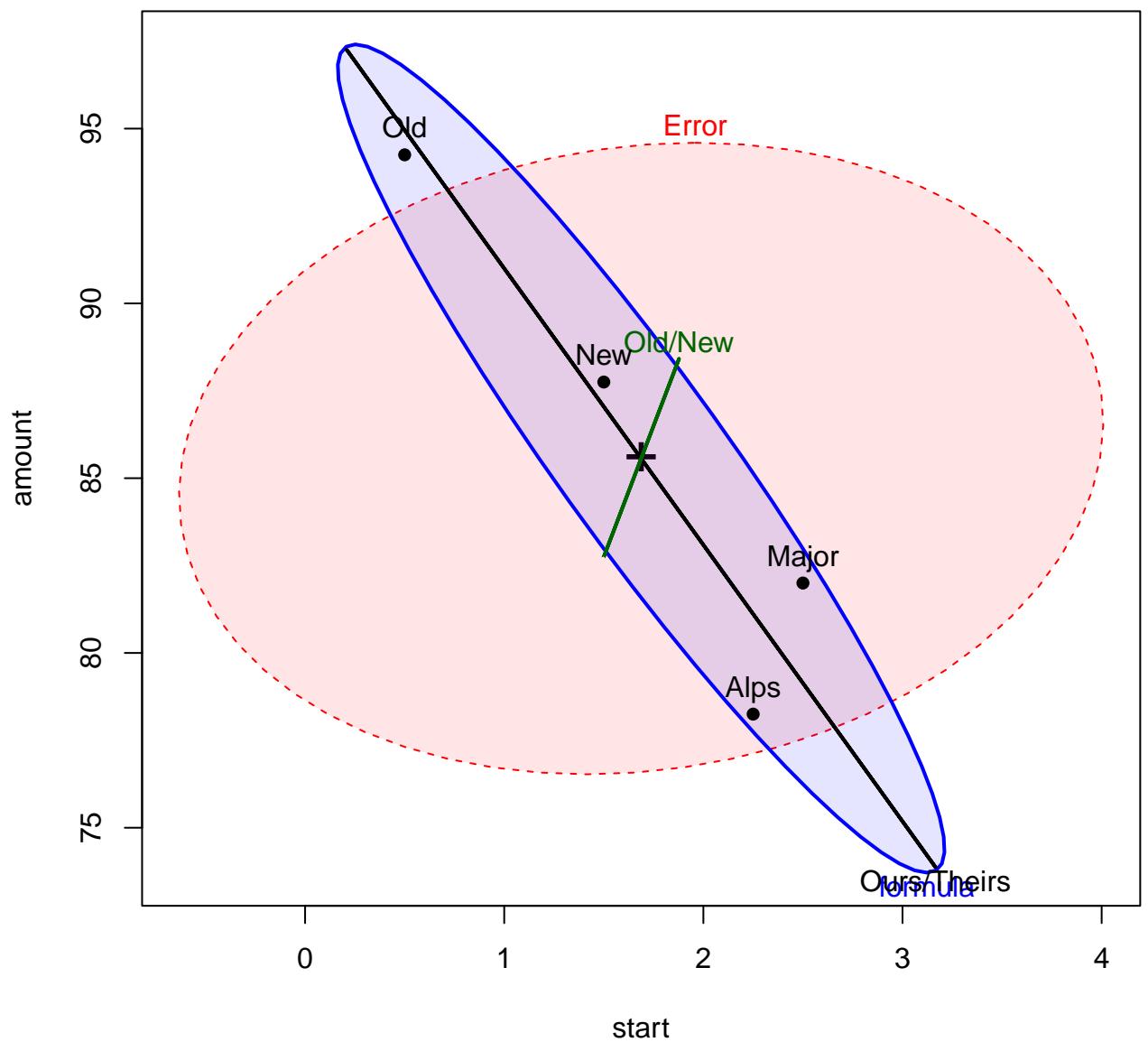
help("dogfood")

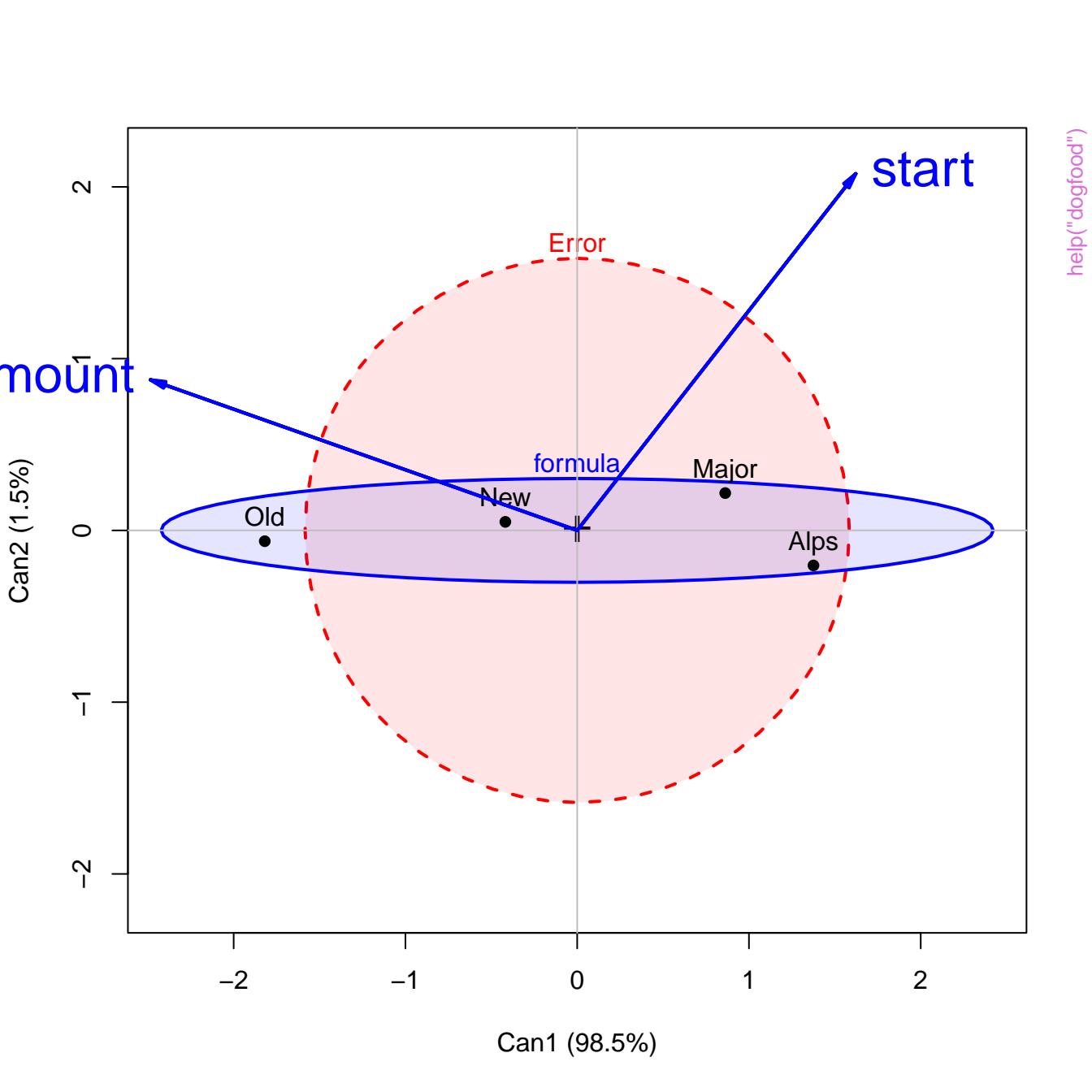


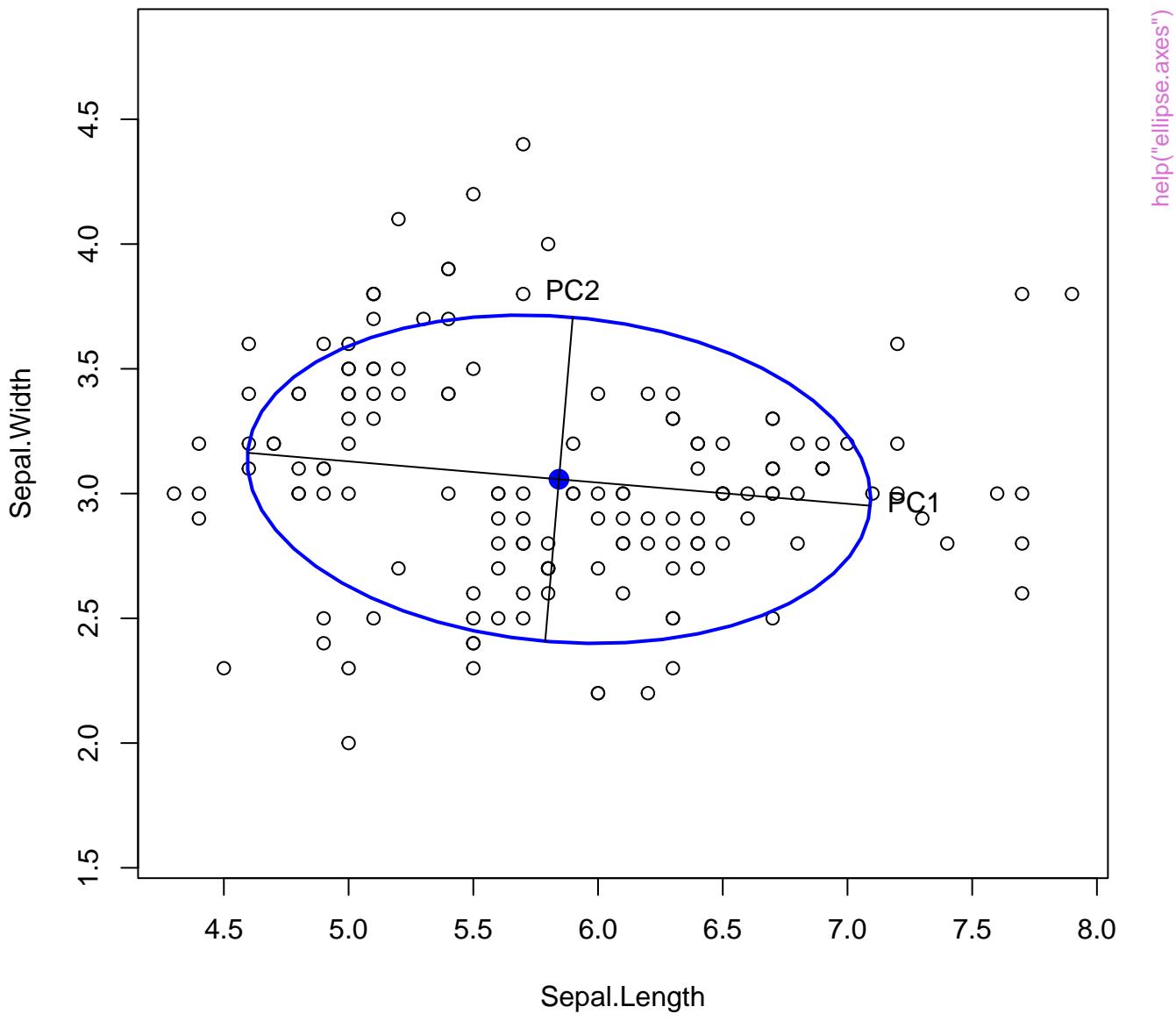
help("dogfood")

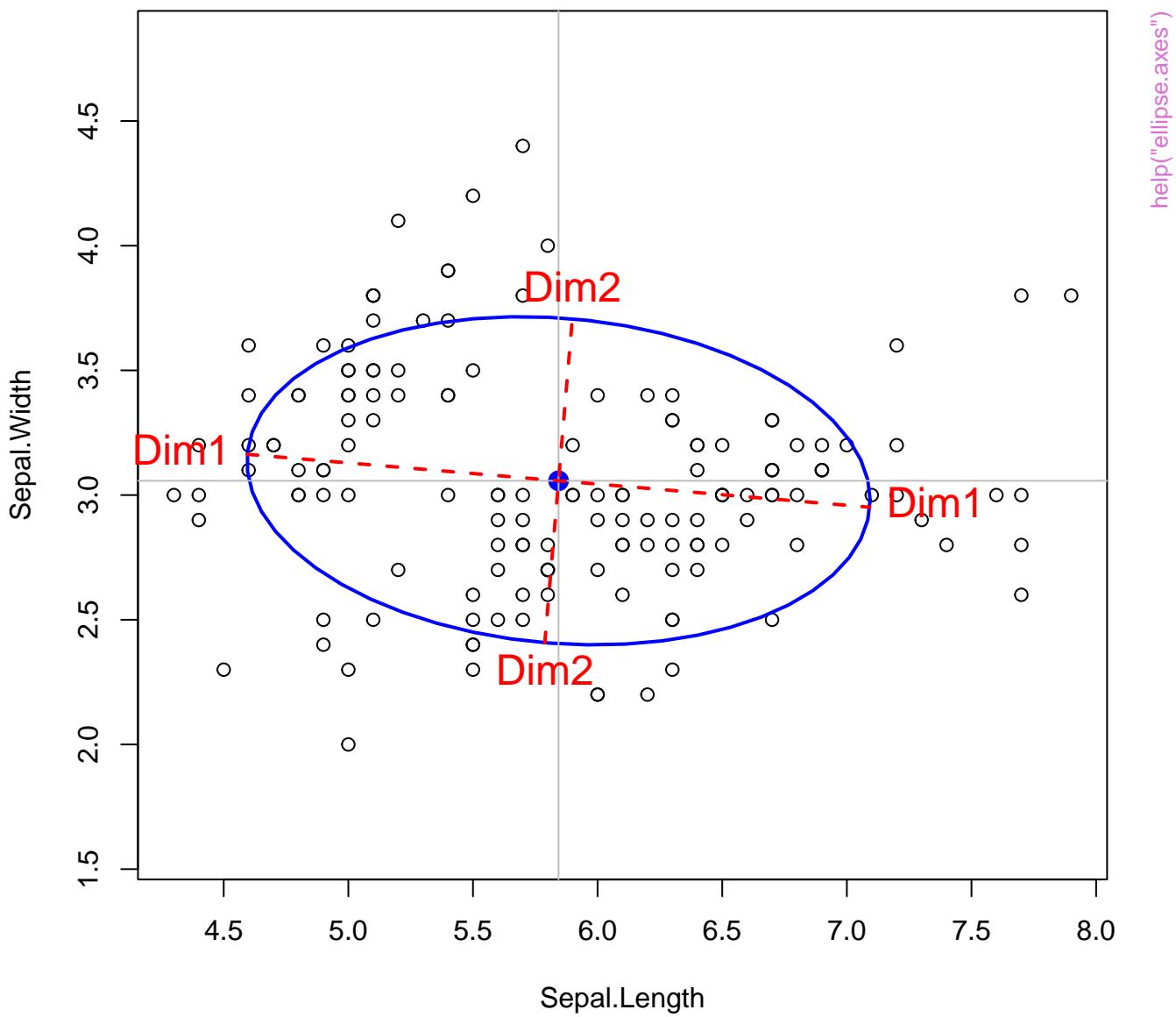


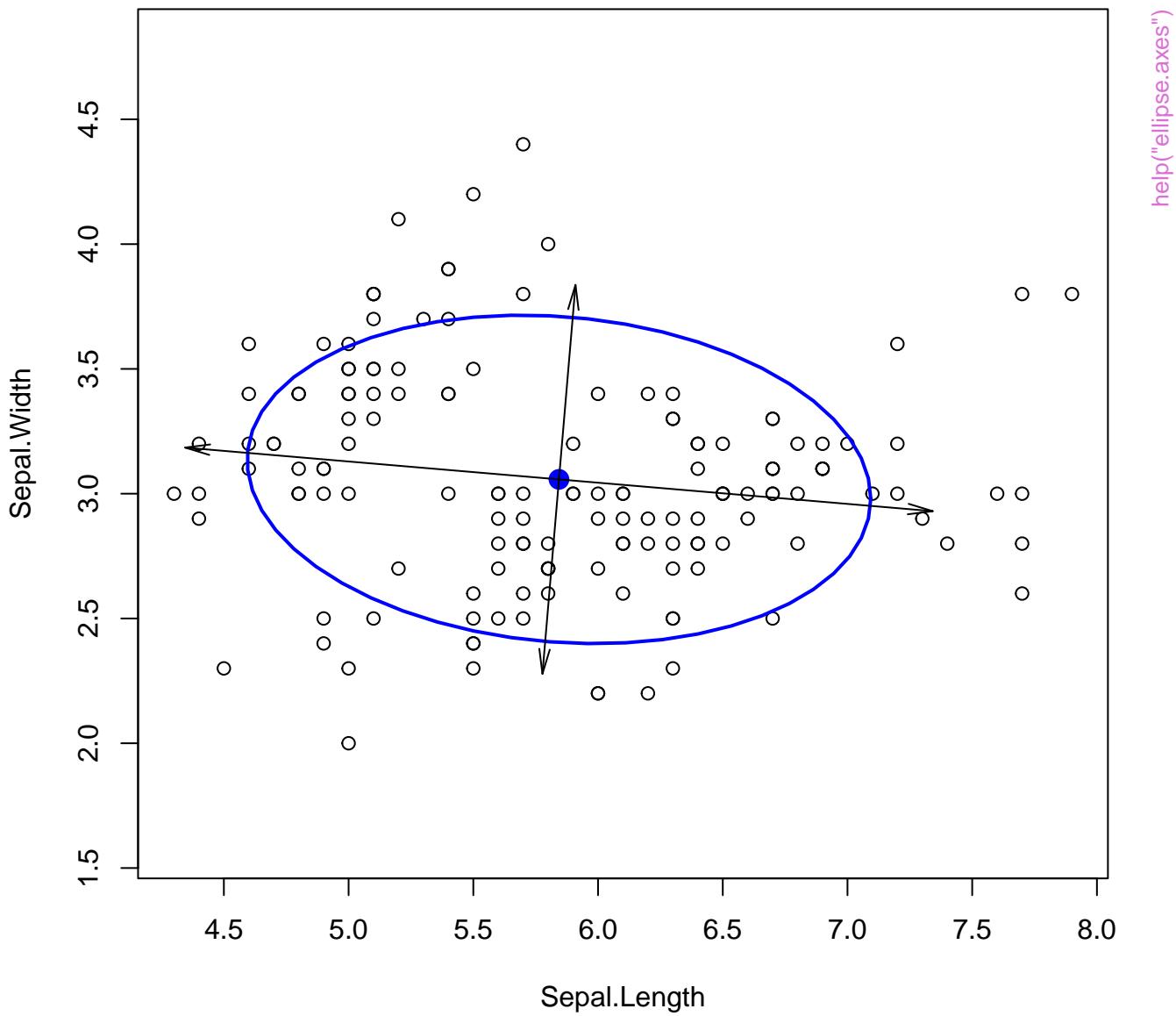
help("dogfood")

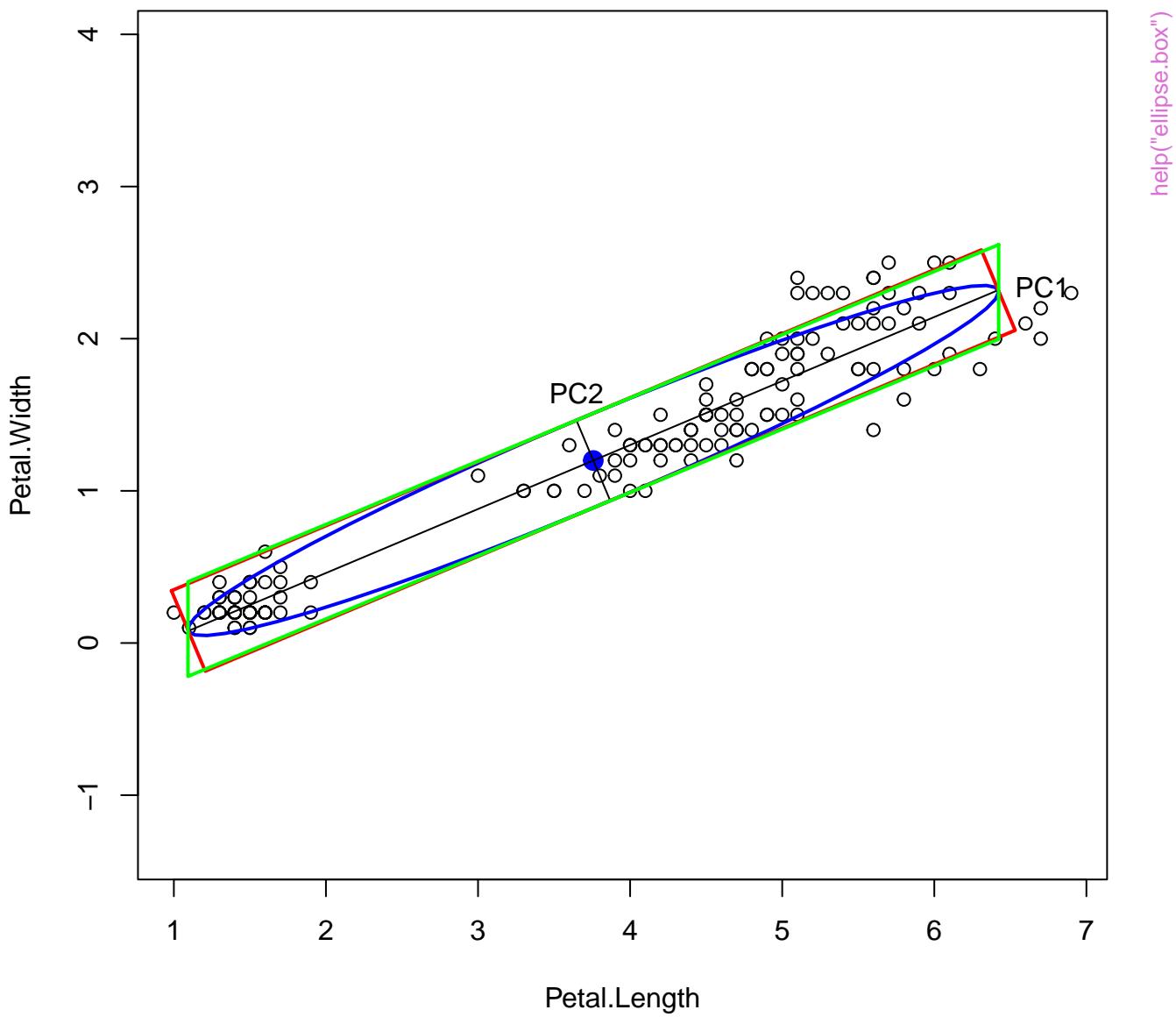












help("gsorth")

PPVT

90

80

70

60

0

20

SAT

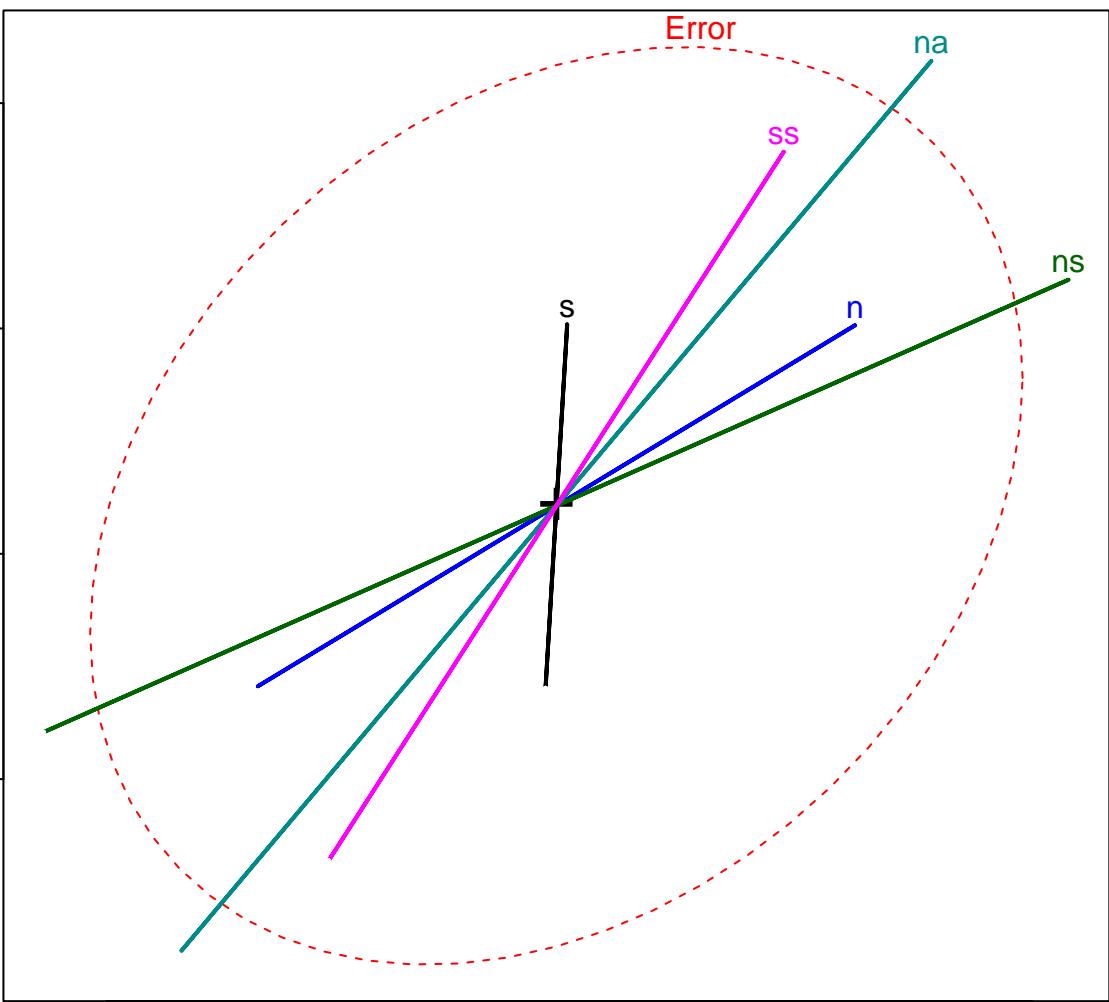
Error

na

ss

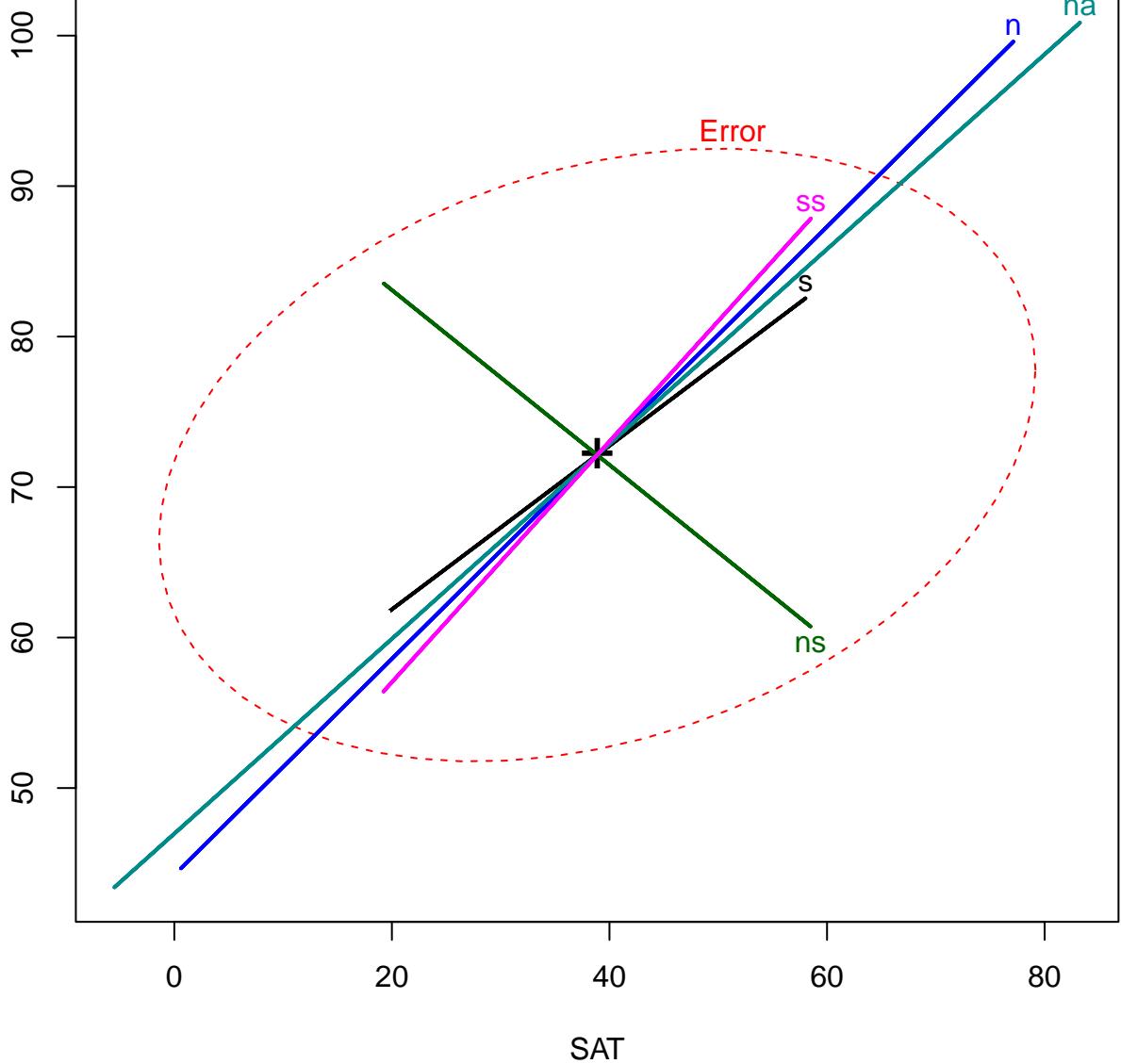
n

ns

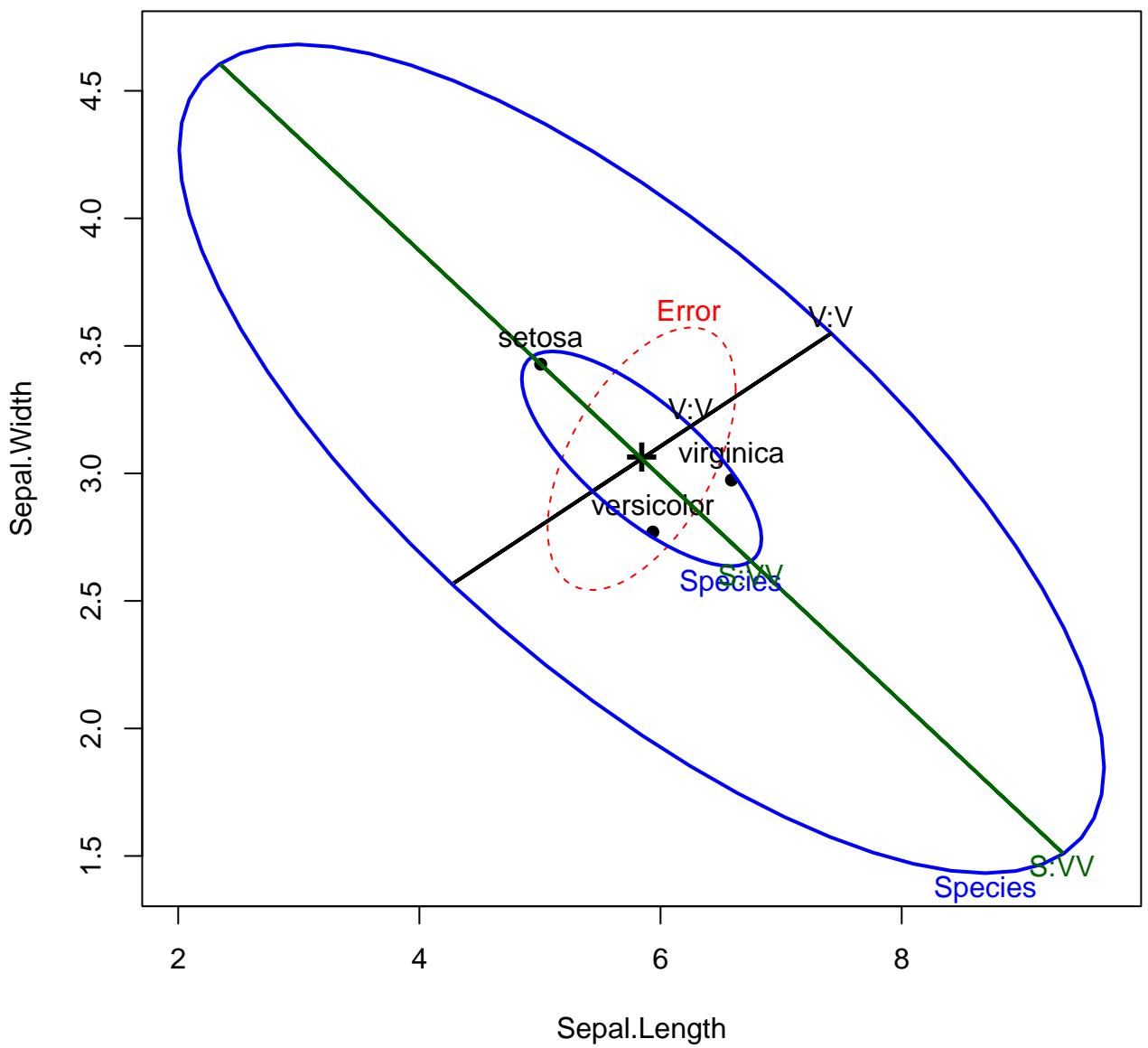


help("gsorth")

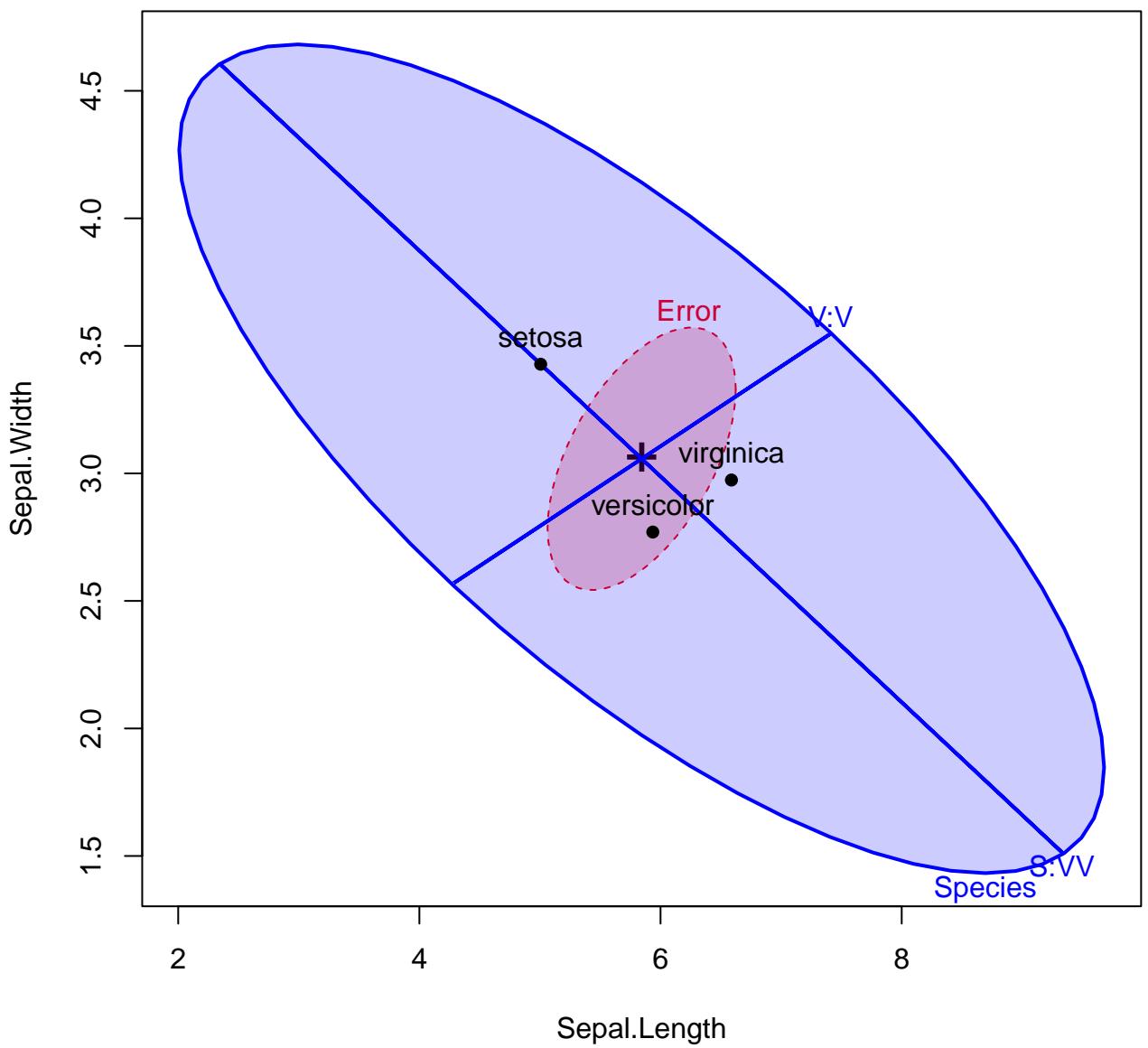
PPVT



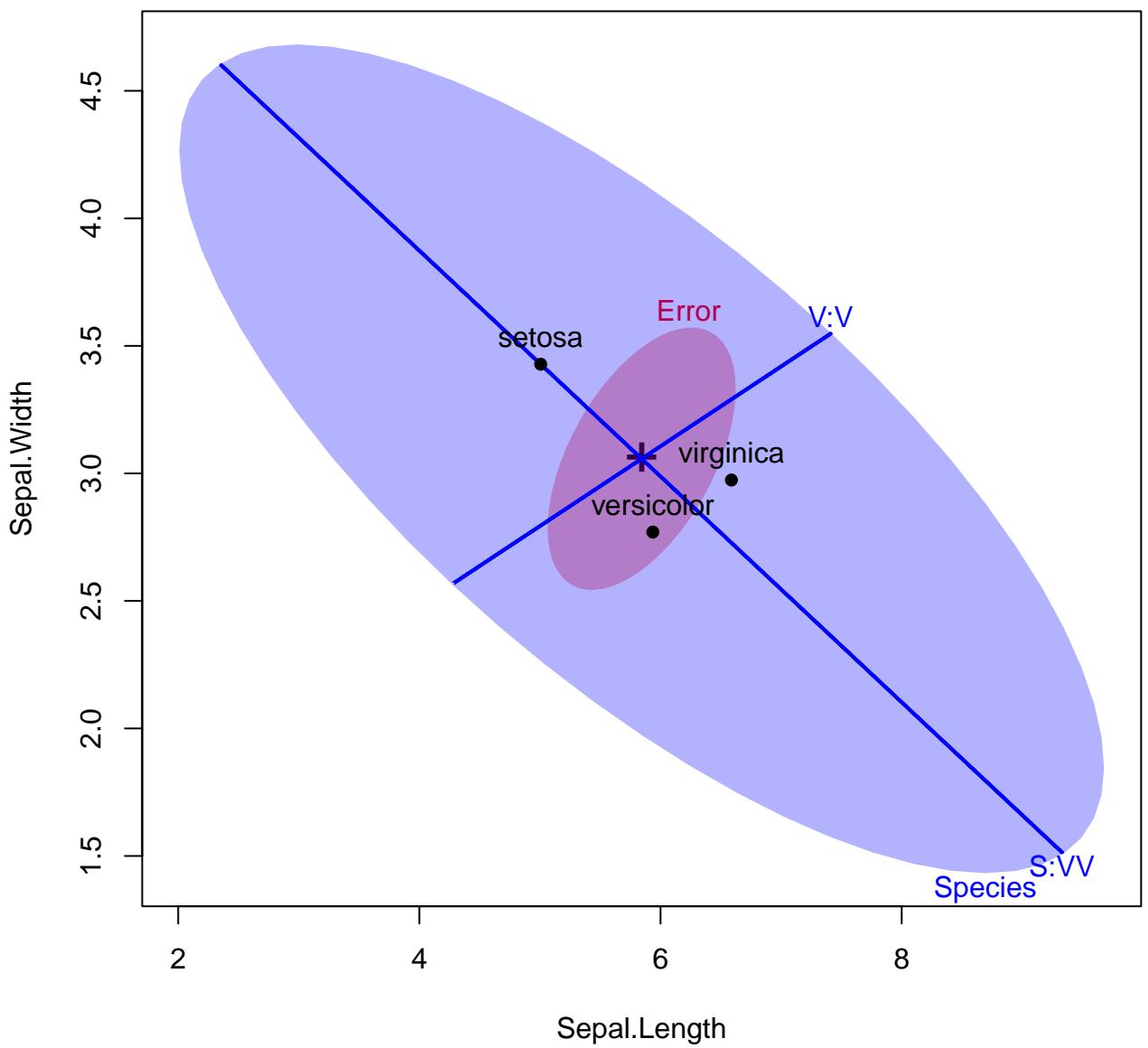
help("heplot")



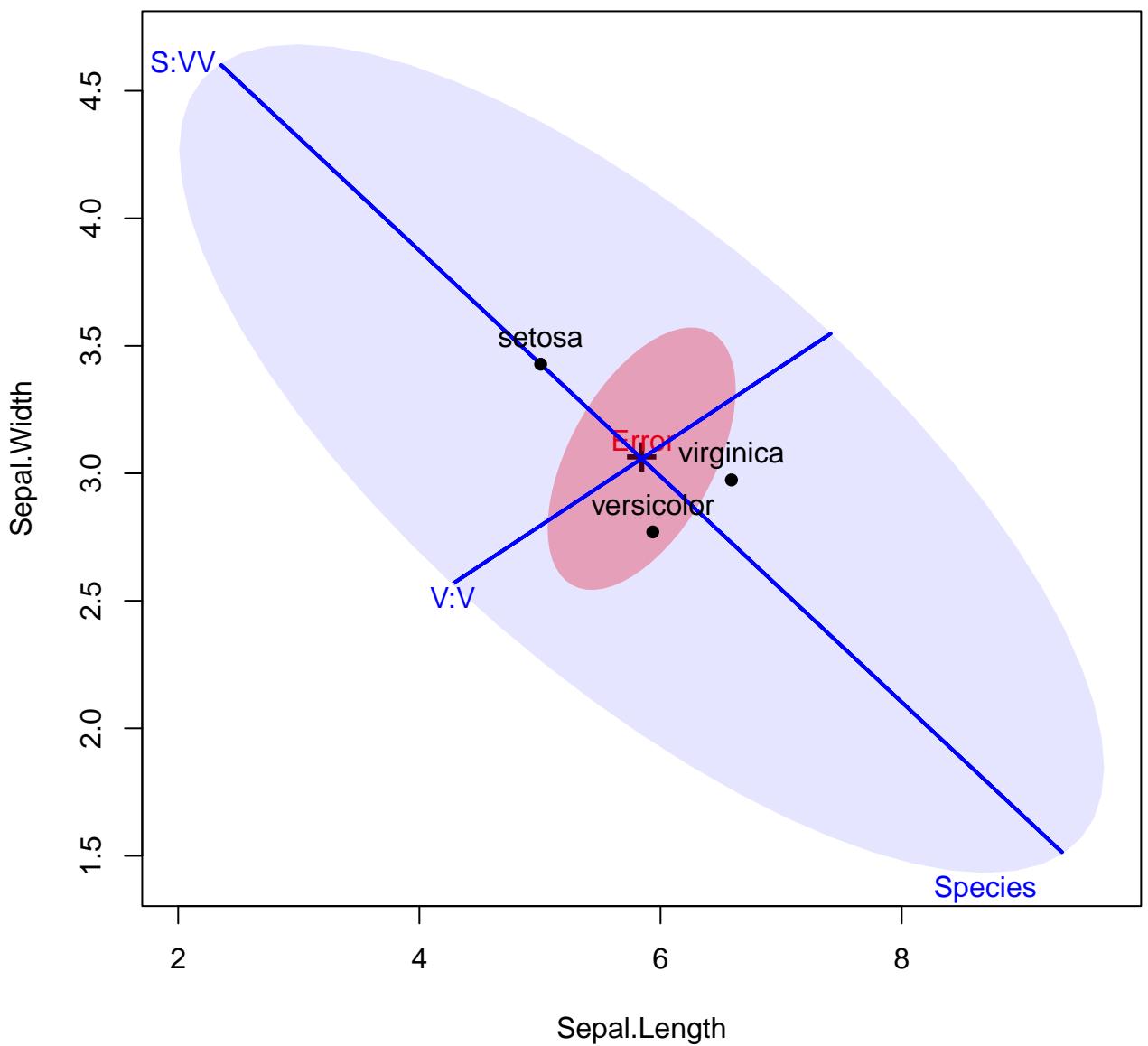
help("heplot")

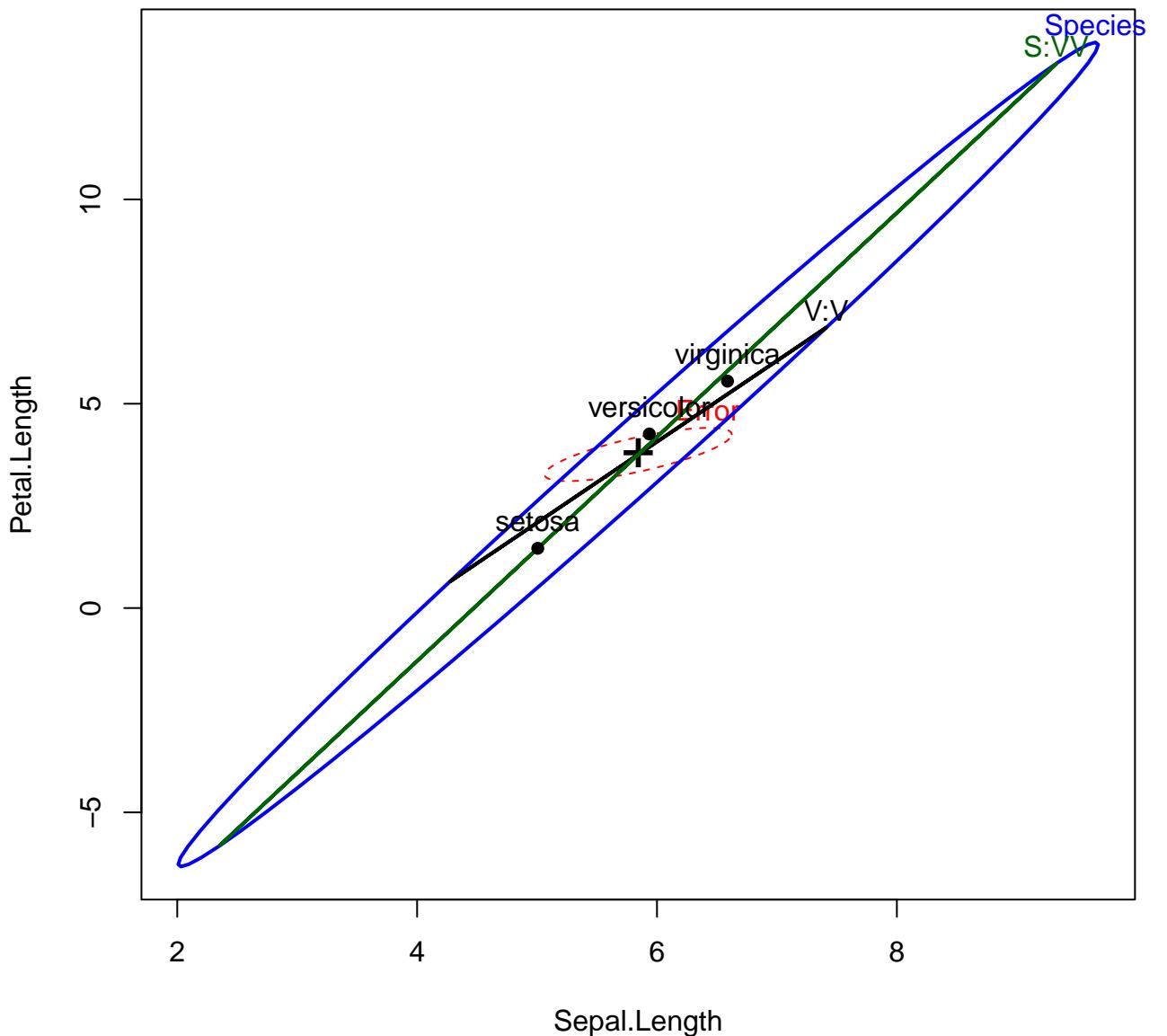


help("heplot")

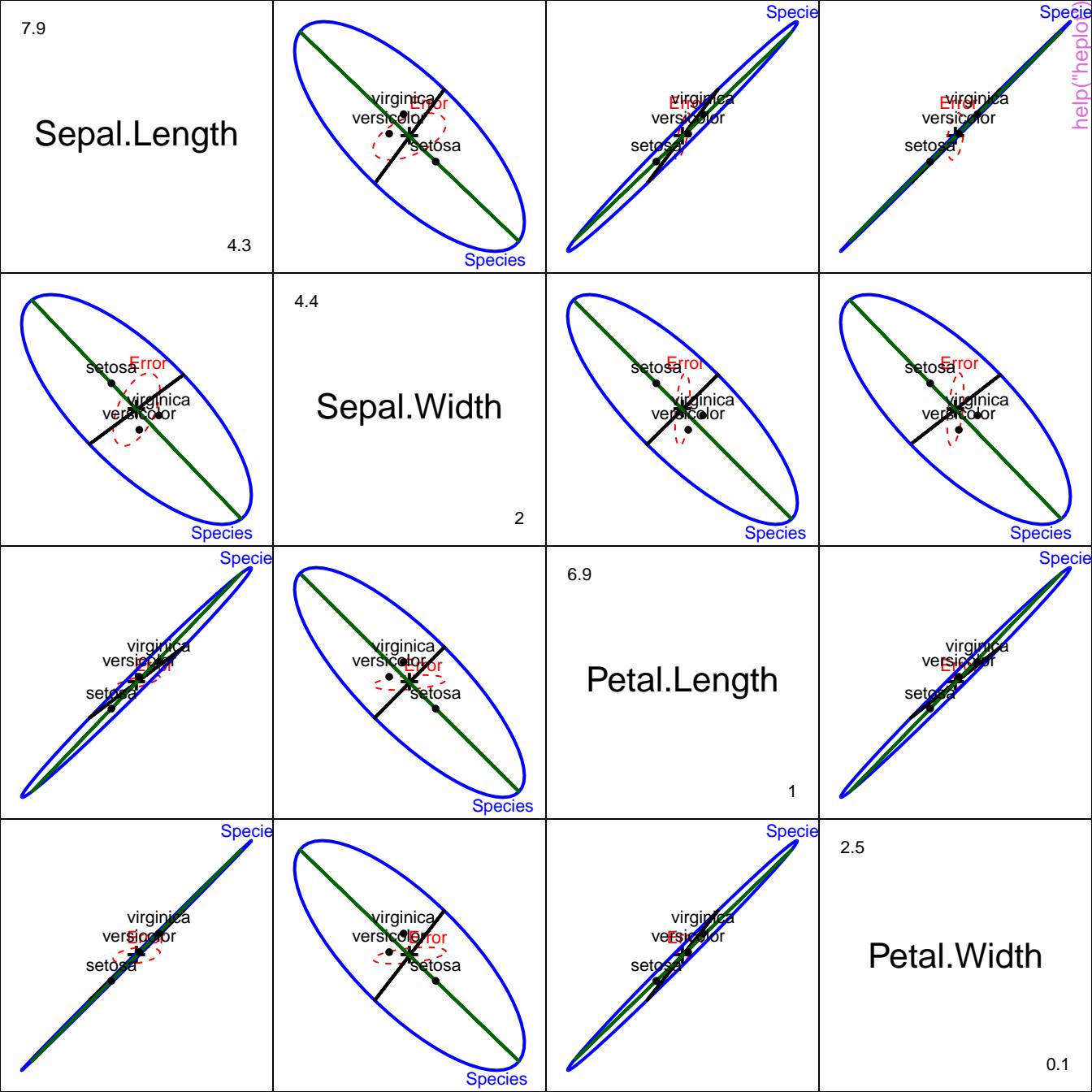


help("heplot")

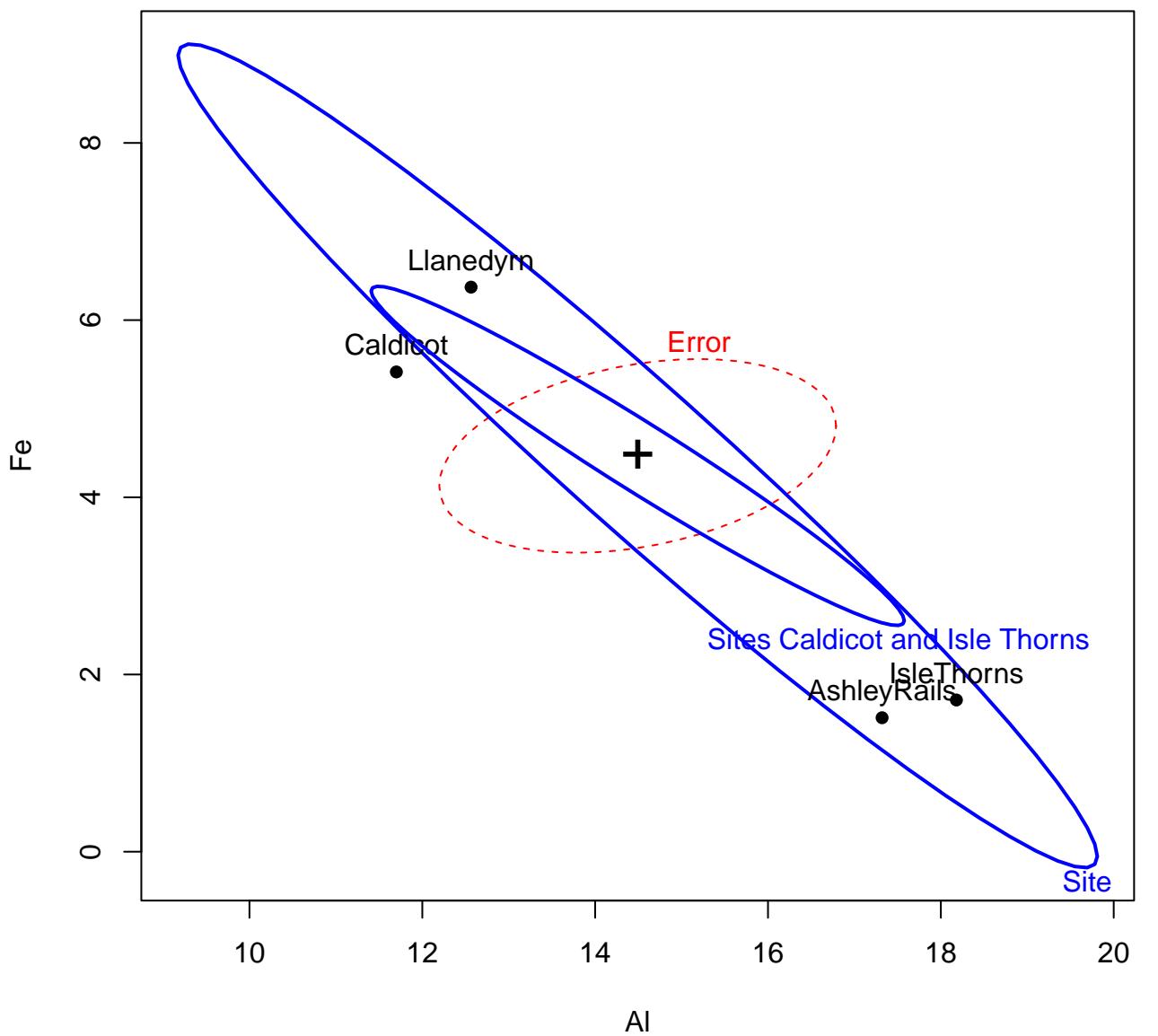




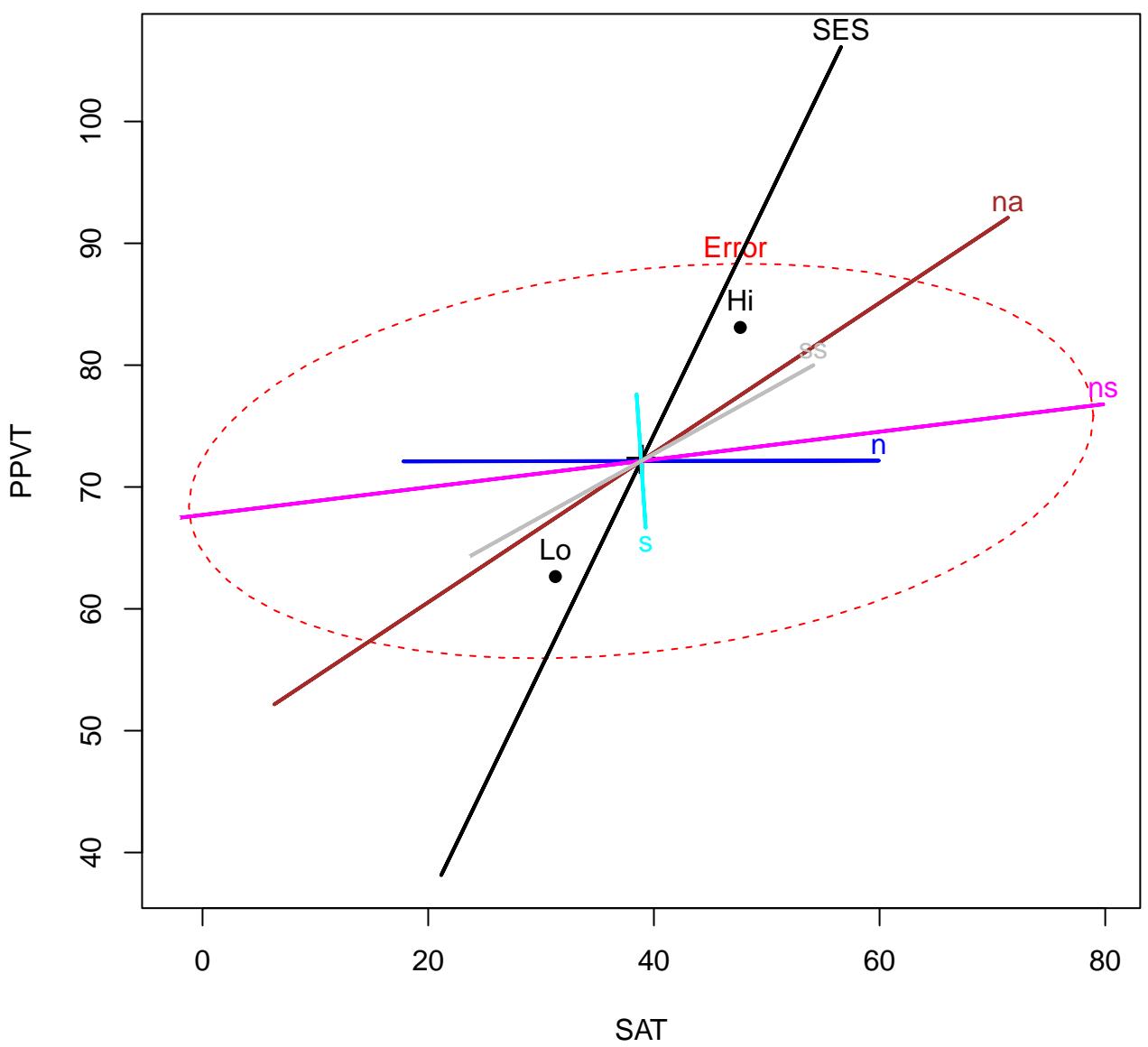
help("heplot")



help("heplot")



help("heplot")



PPVT

100  
90  
80  
70  
60  
50  
40

0 20 40 60 80

SAT

SES

Regr

na

Error

Lo

s

n

Hi

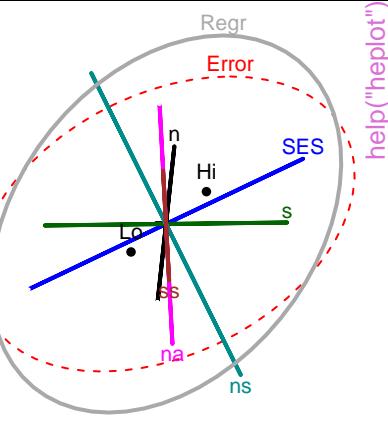
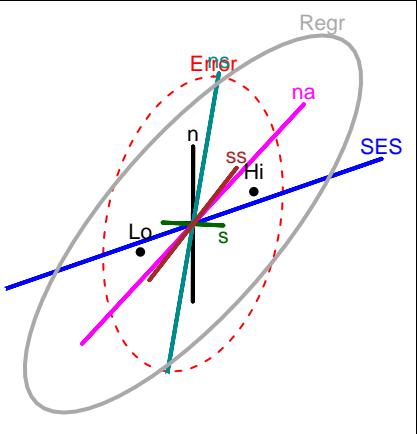
ss

help("heplot")

99

SAT

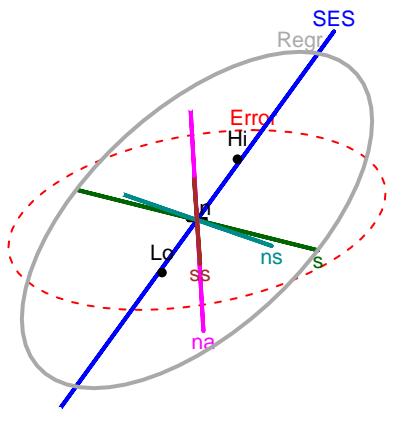
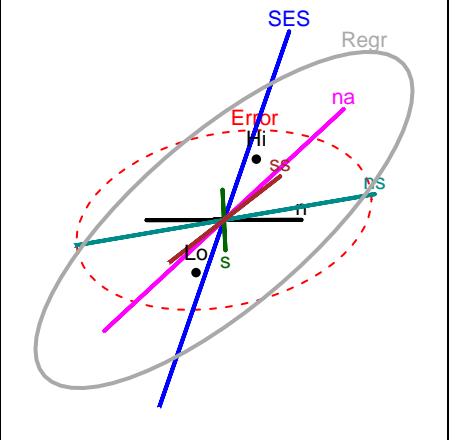
1



105

PPVT

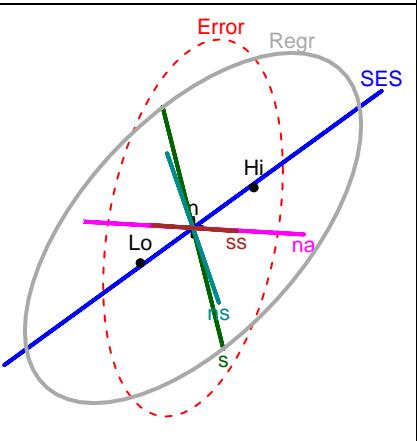
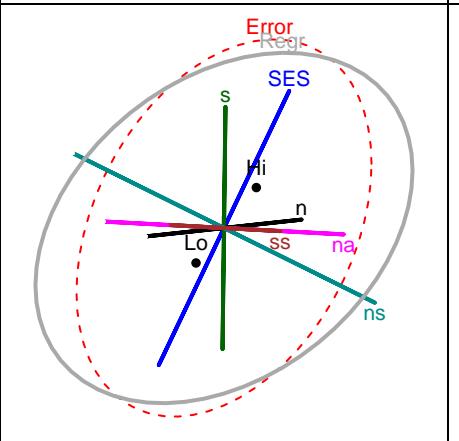
40



21

Raven

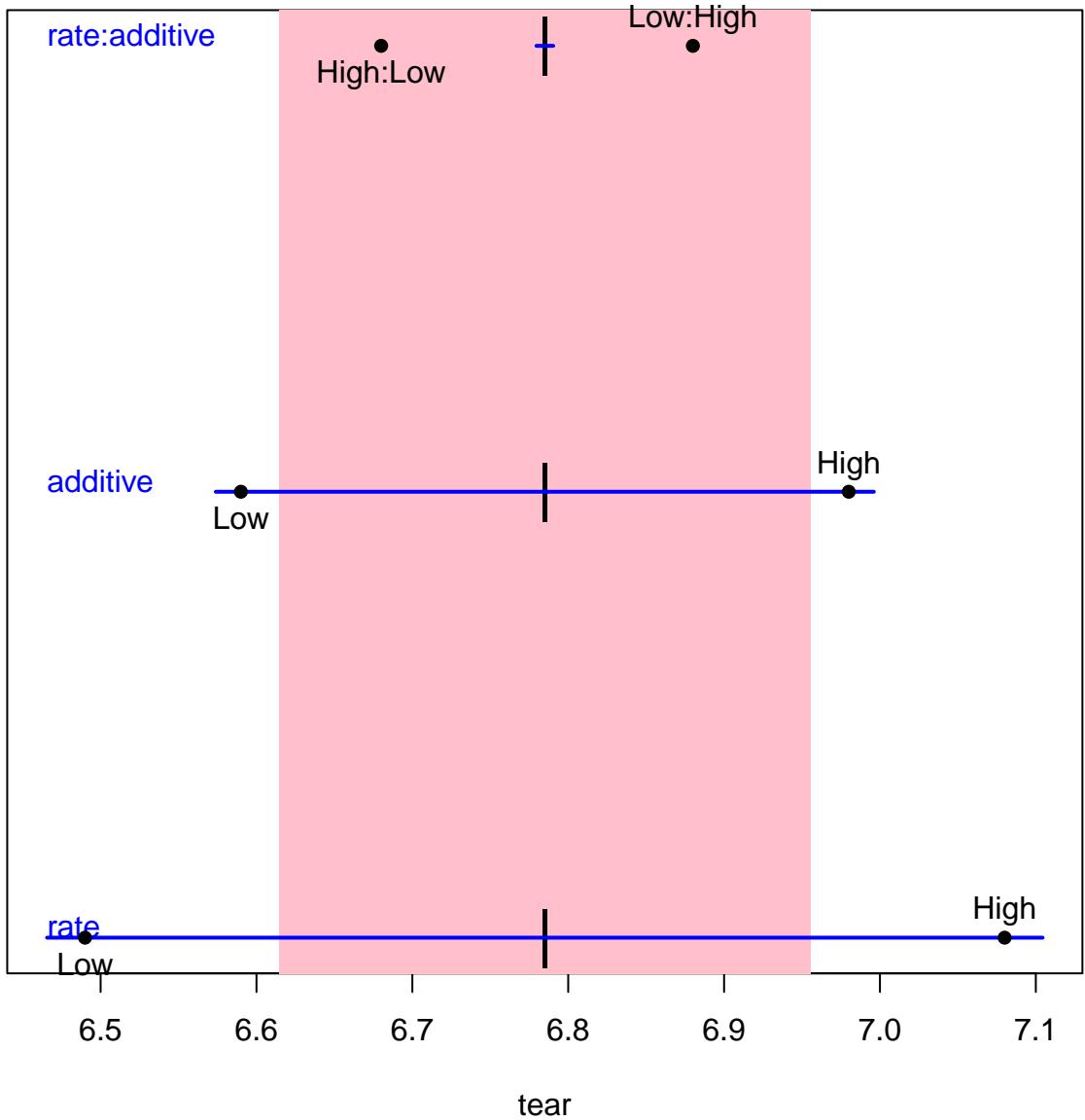
8



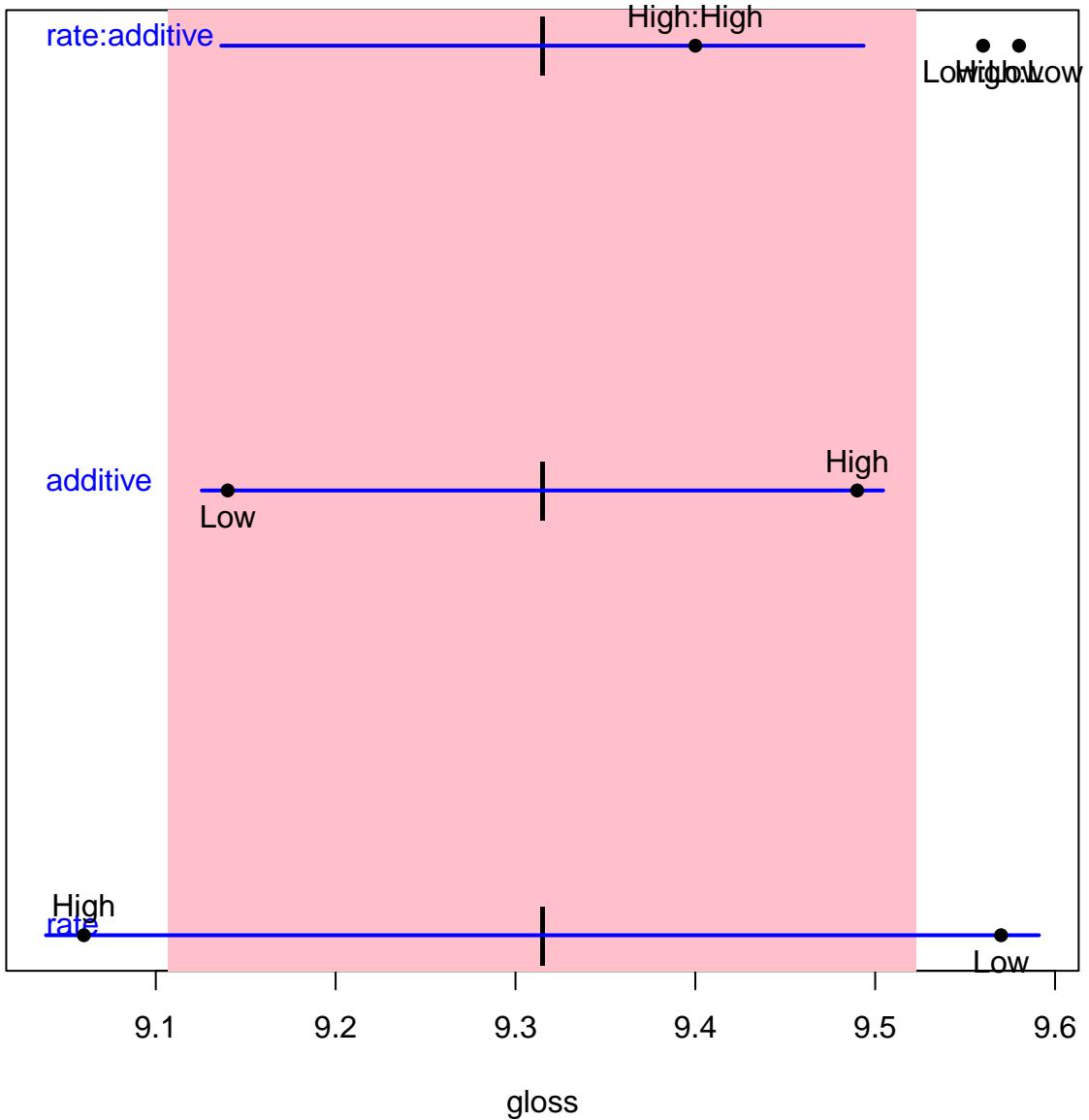
help("heplot")

```
help("heplot1d")
```

Terms



Terms



help("heplot1d")



3.0

## additive

Low; High  
rate:additive

Low

## High

3.5

## Capacity

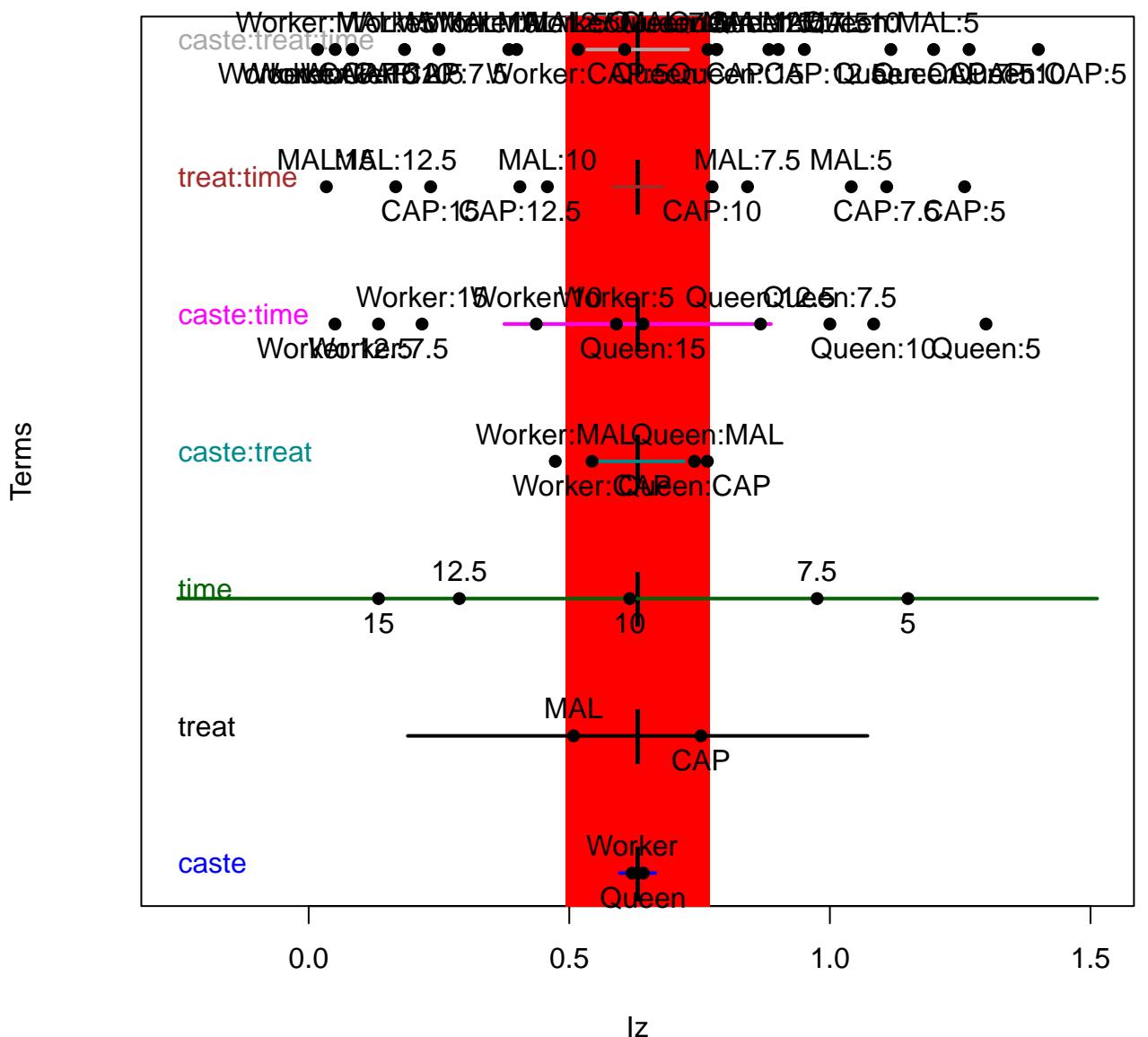
4.5

5.0

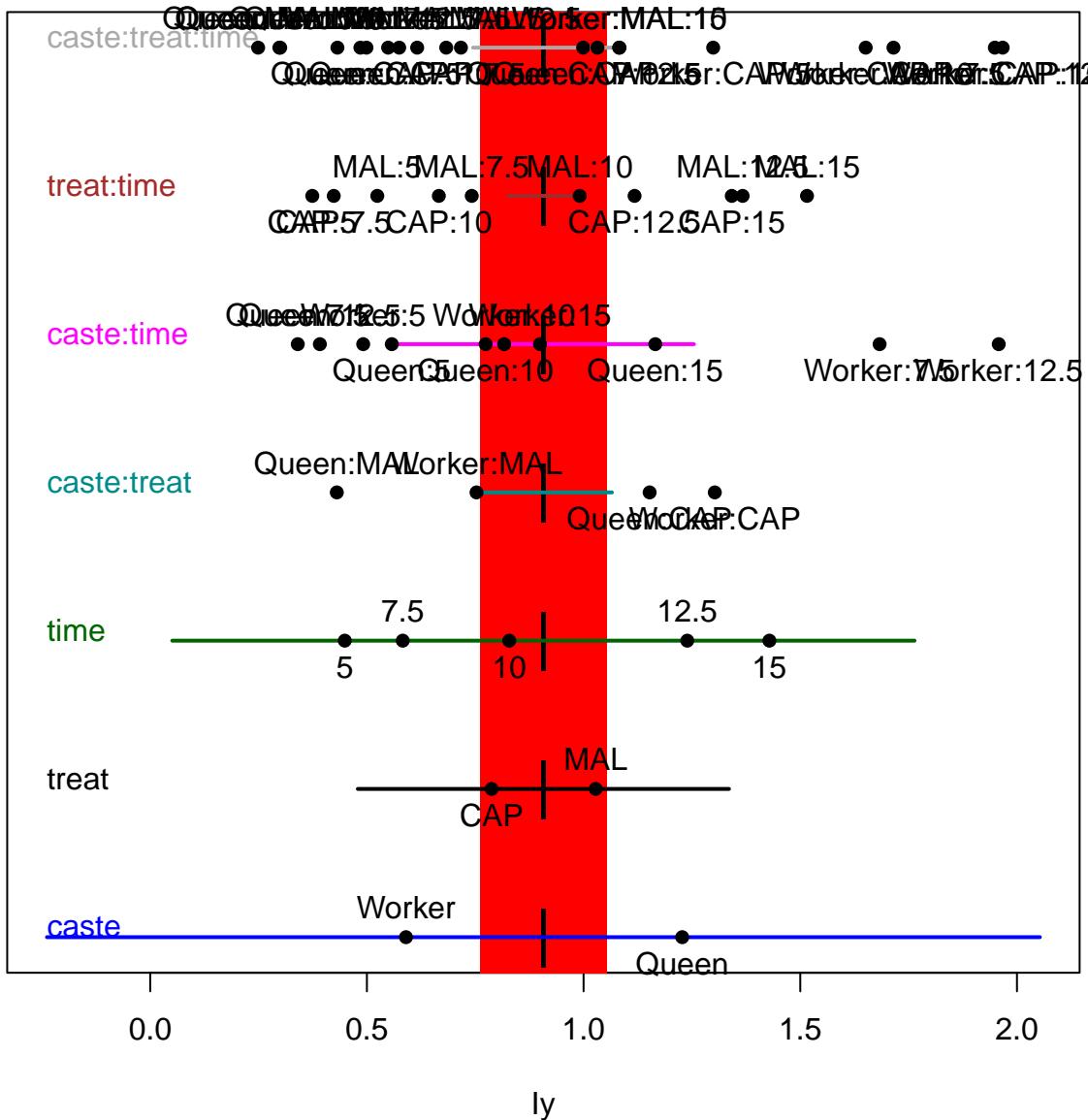
Low High Low

## High:High (Ergonomics)

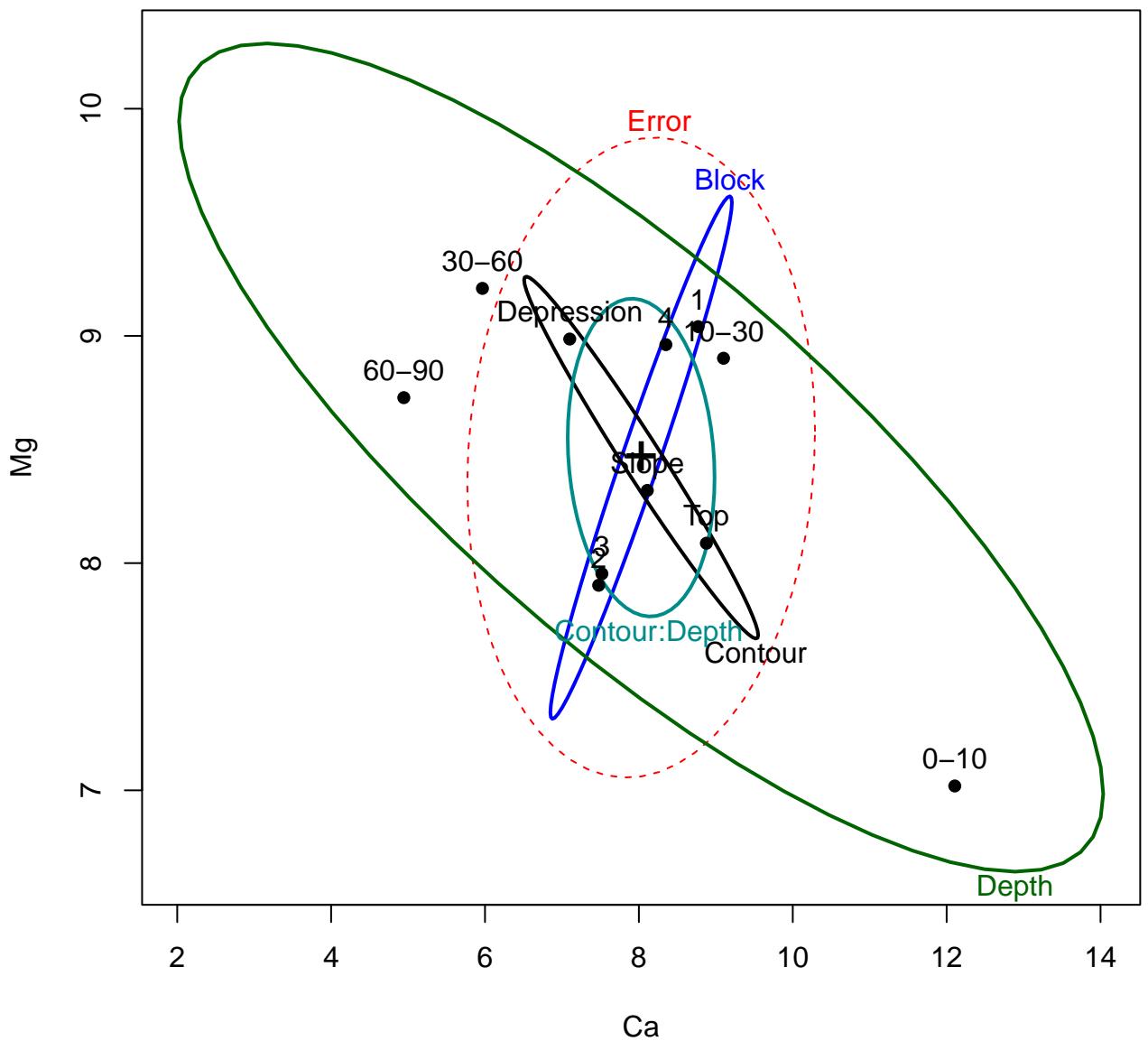
```
help("heplot1d")
```



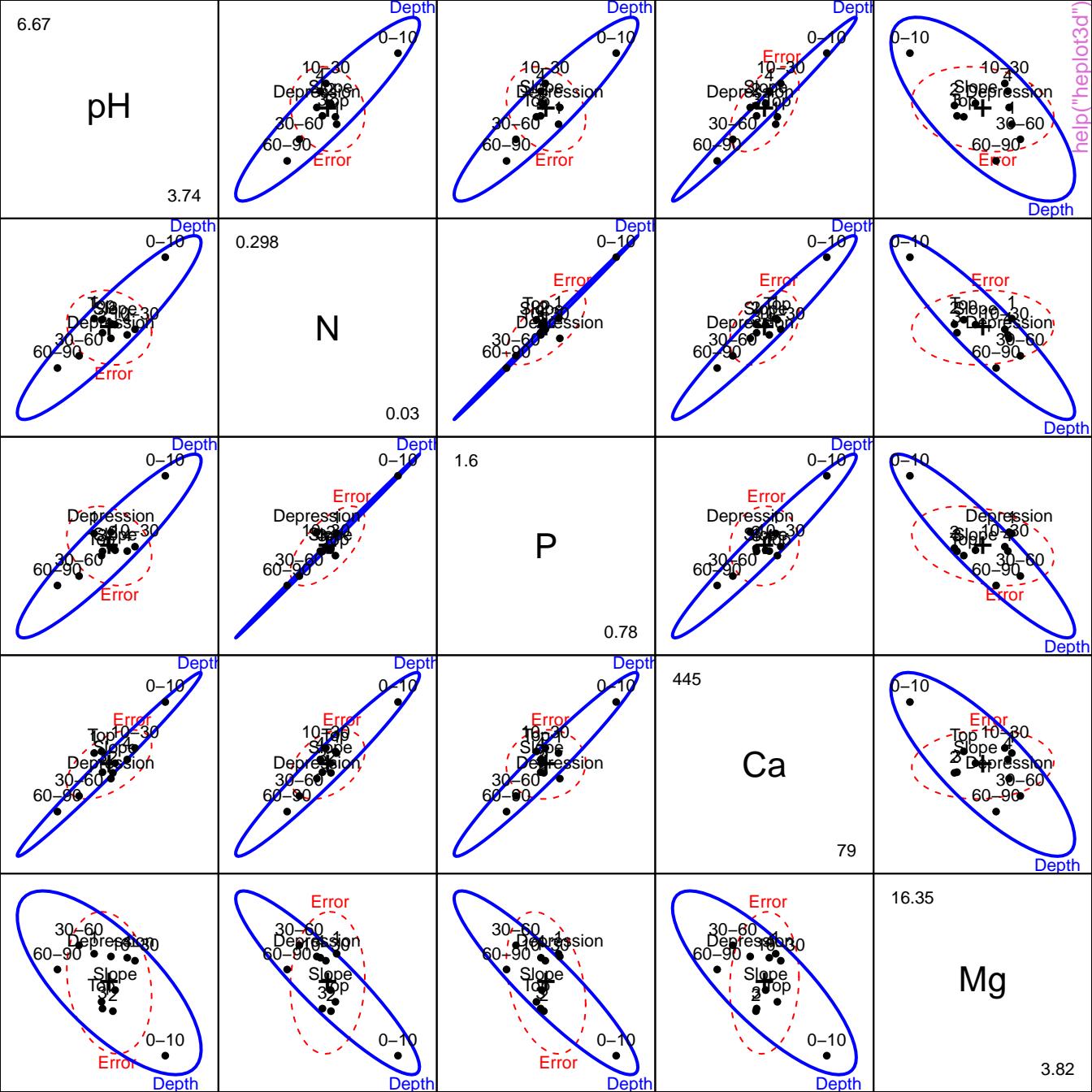
Terms



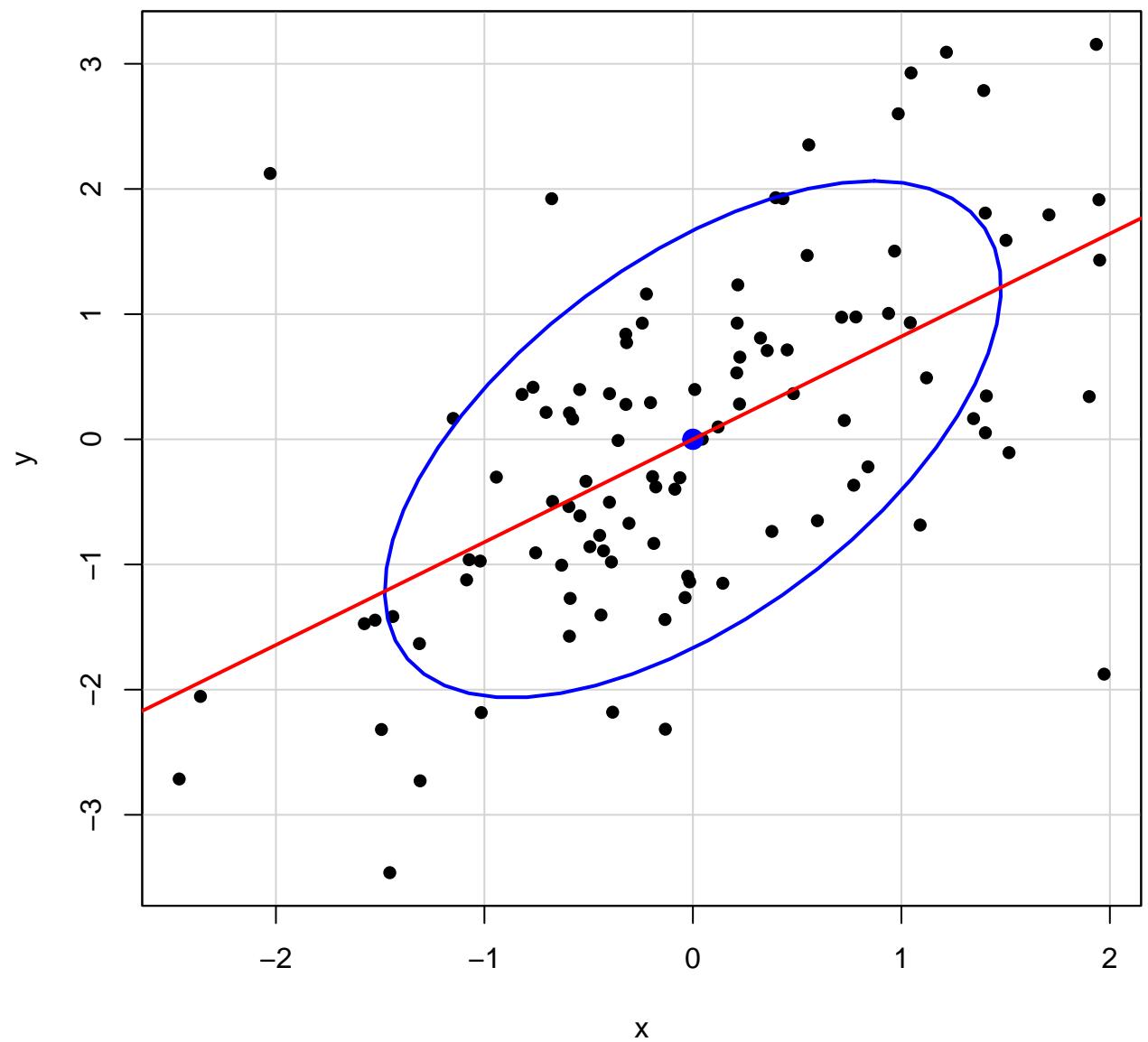
help("heplot3d")



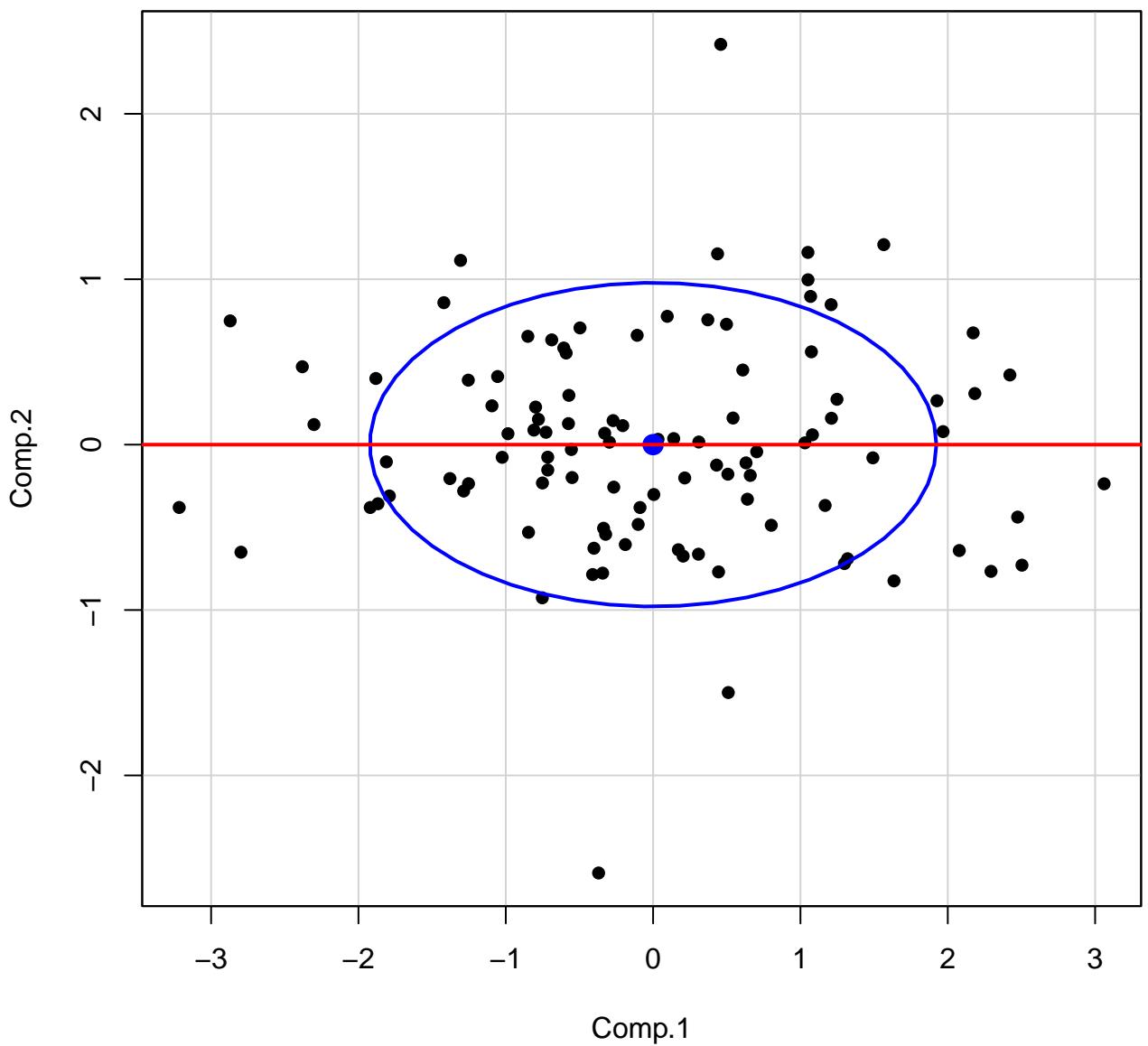
help("heplot3d")



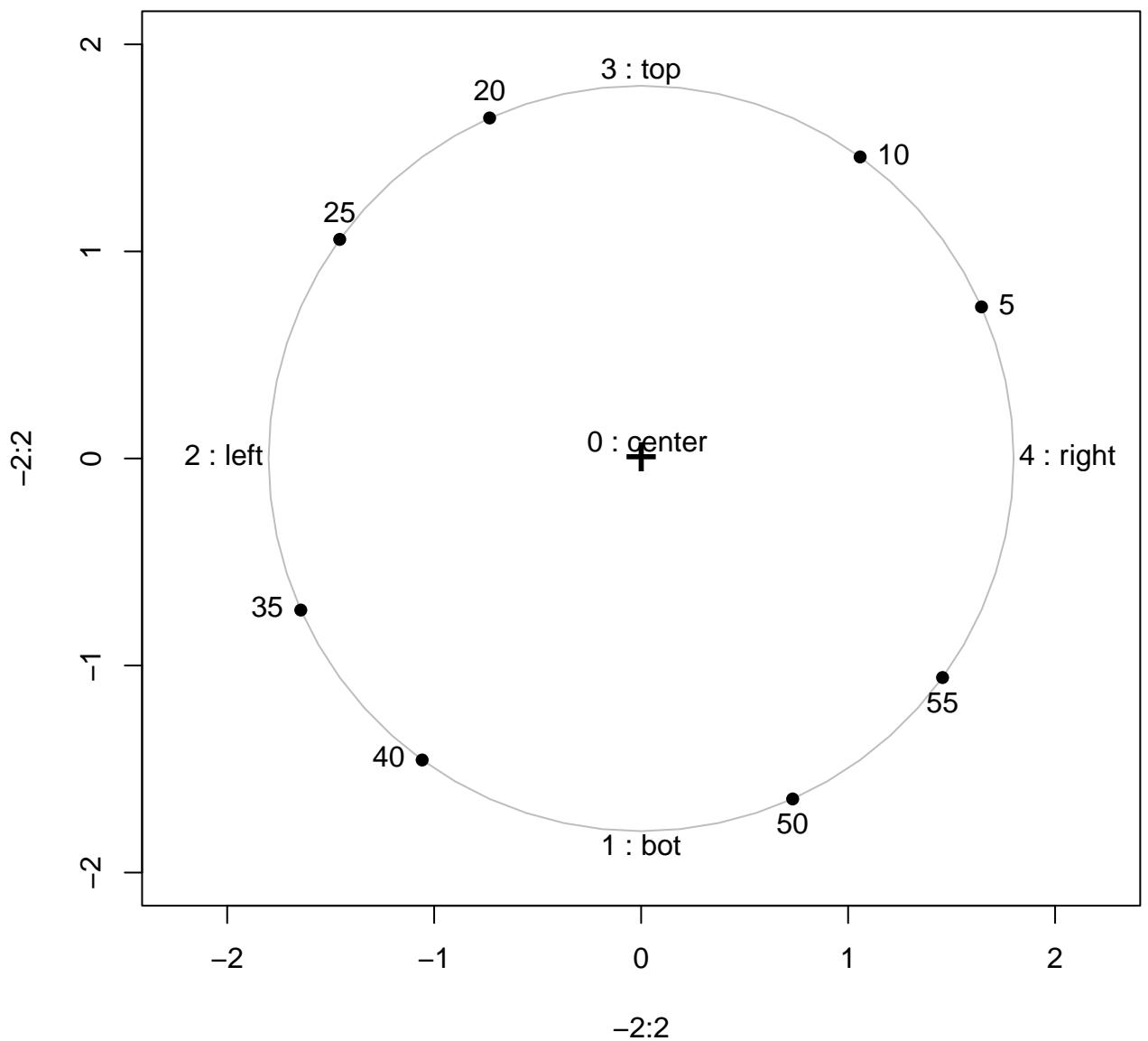
help("interpPlot")



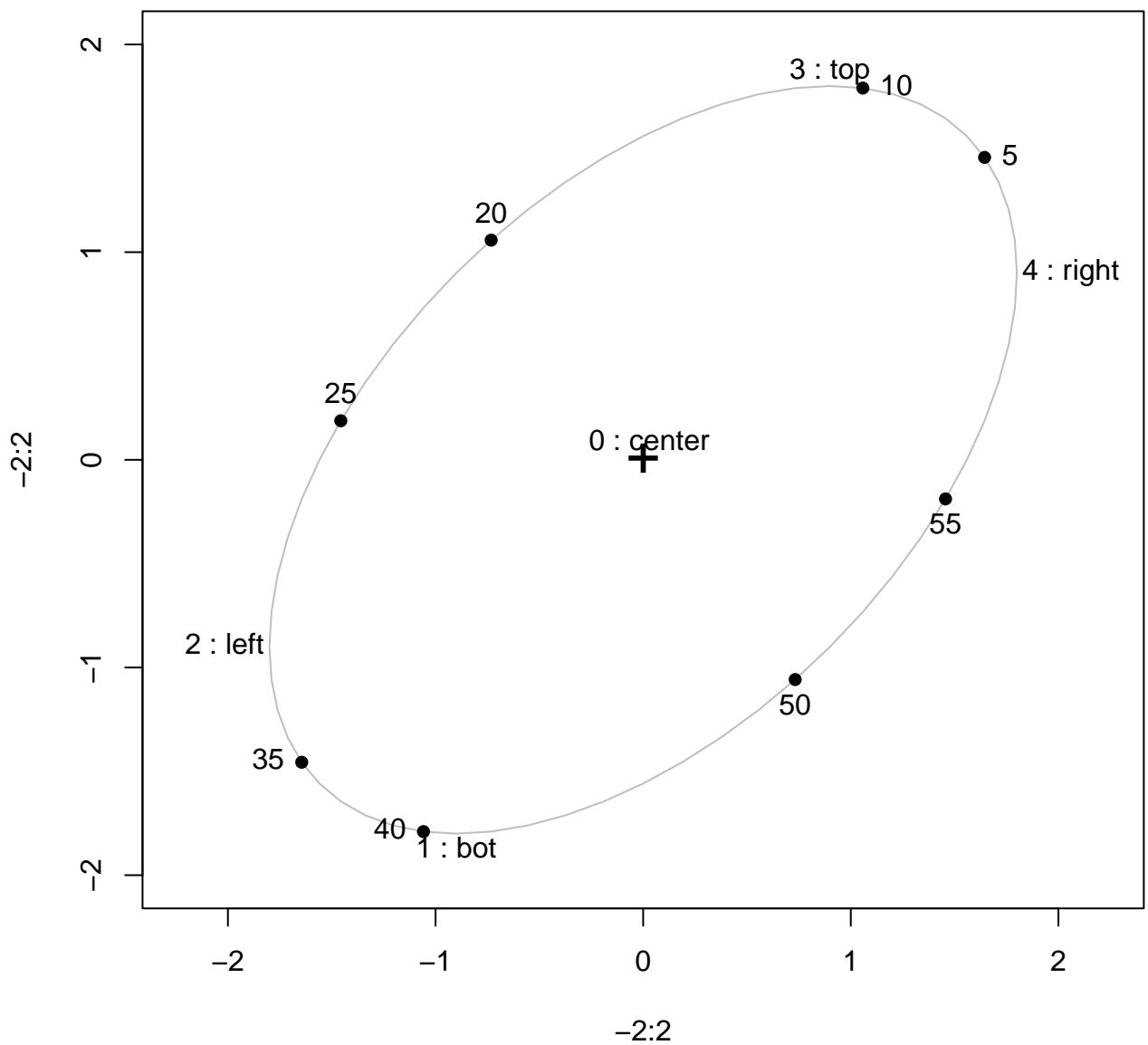
help("interpPlot")



## label.pos values and points (0:60)



## label.pos values and points (0:60)



## Iris data, Box's M test

pooled

Species

virginica

versicolor

setosa

-14 -13 -12 -11 -10 -9 -8

log determinant

help("logdetCI")

## Iris data, Box's M test

pooled

Species

virginica

versicolor

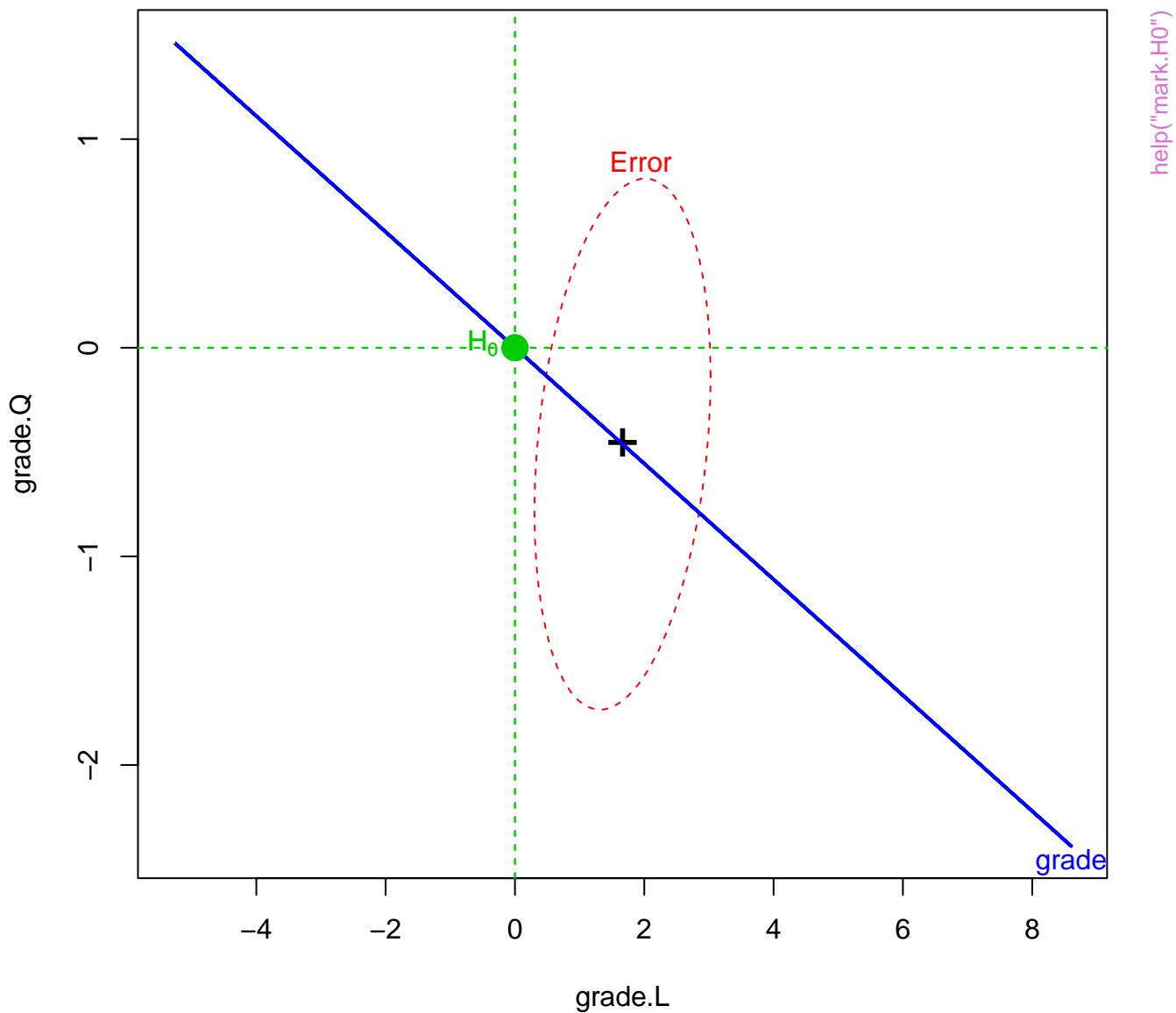
setosa

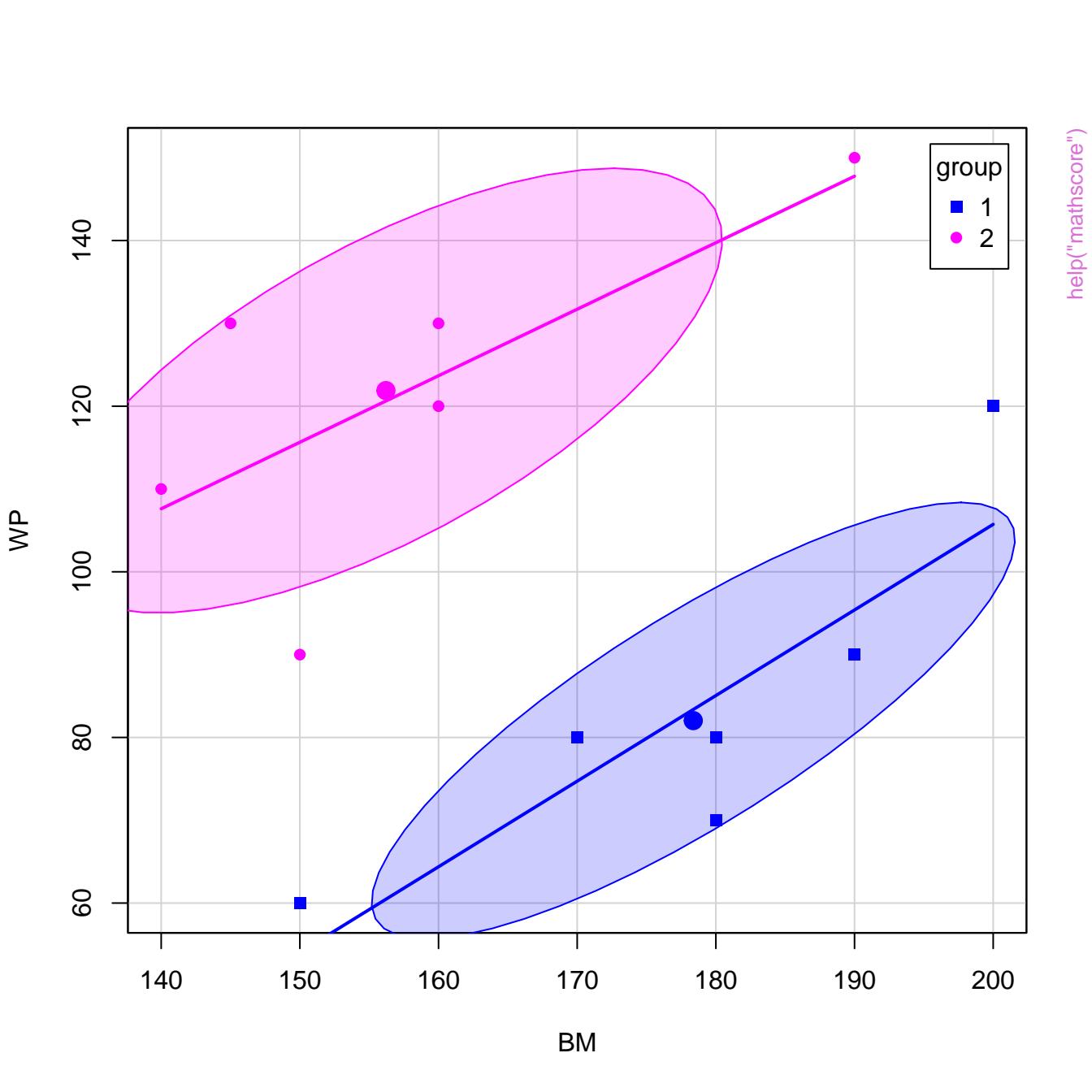
-14 -13 -12 -11 -10 -9 -8

log determinant

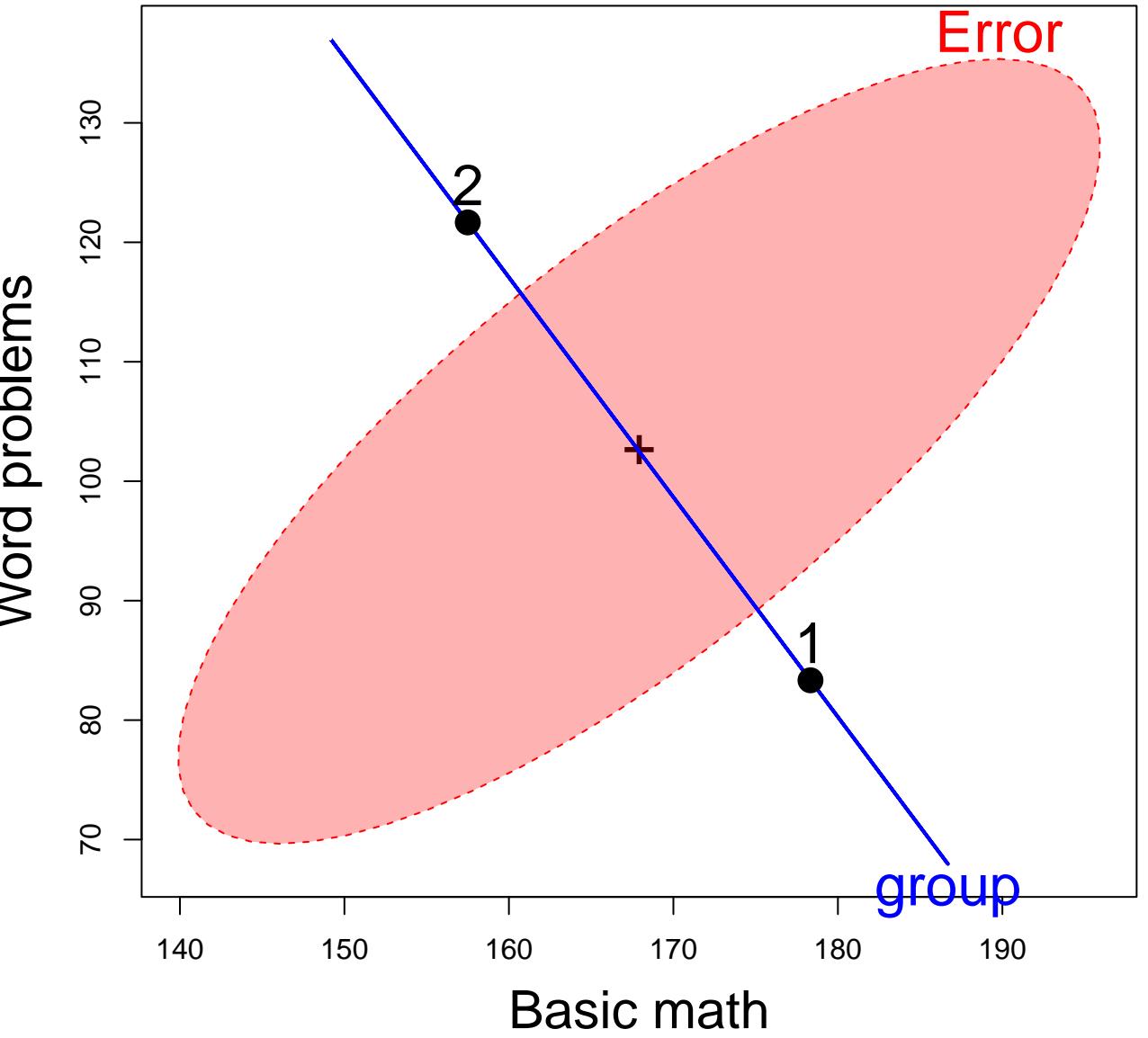
help("logdetCI")

# HE plot for Grade effect



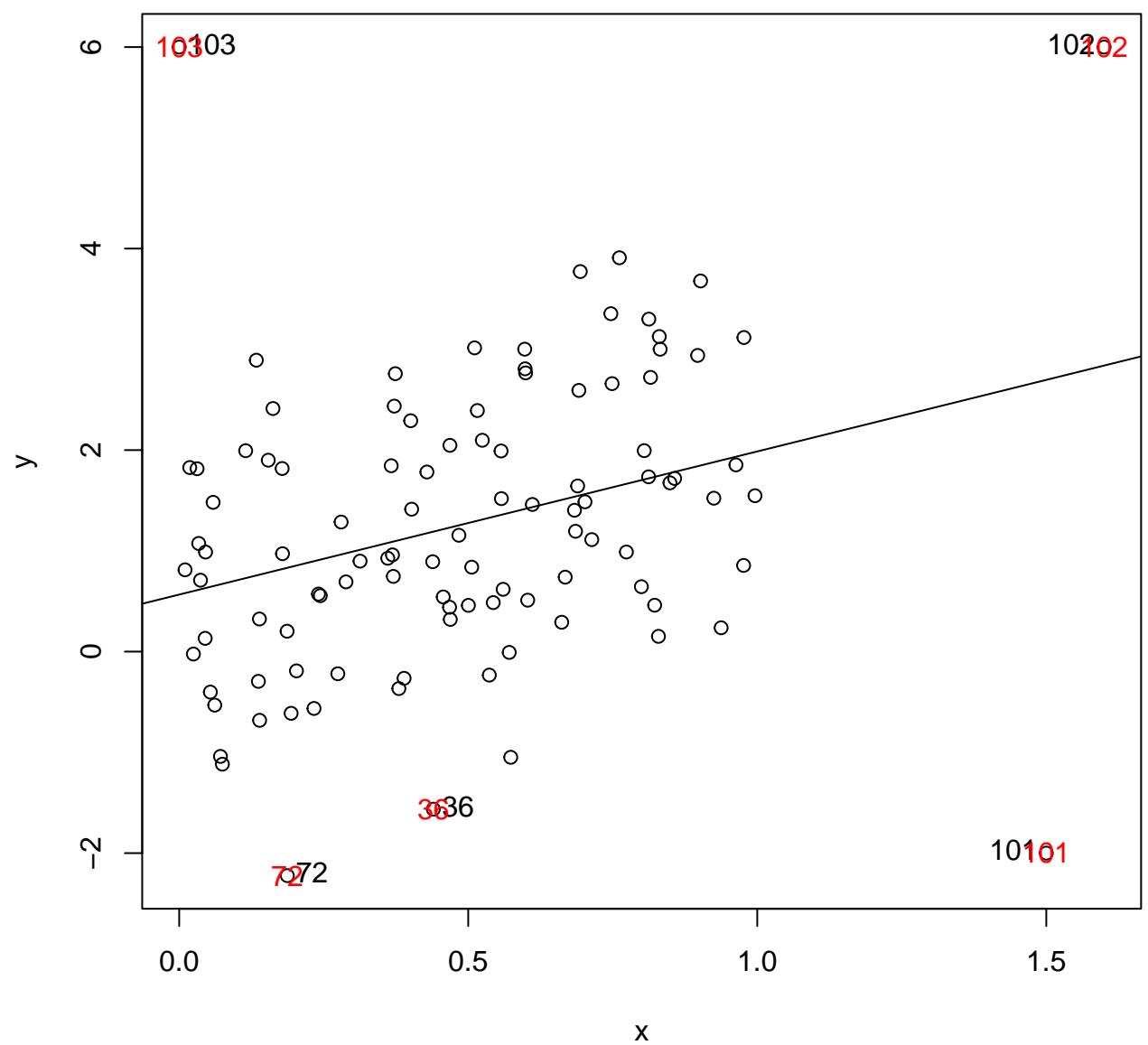


Word problems

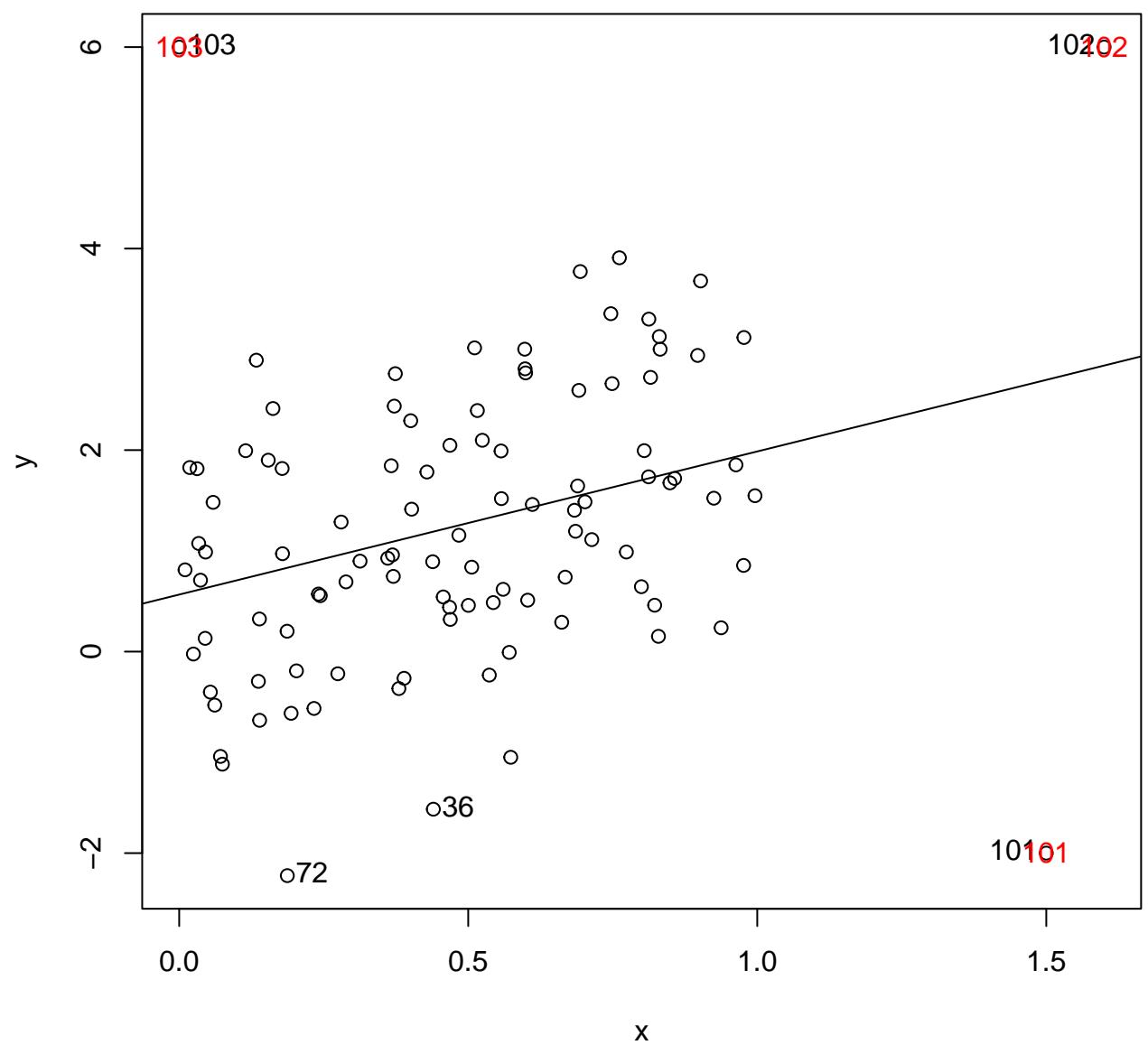


help("mathscore")

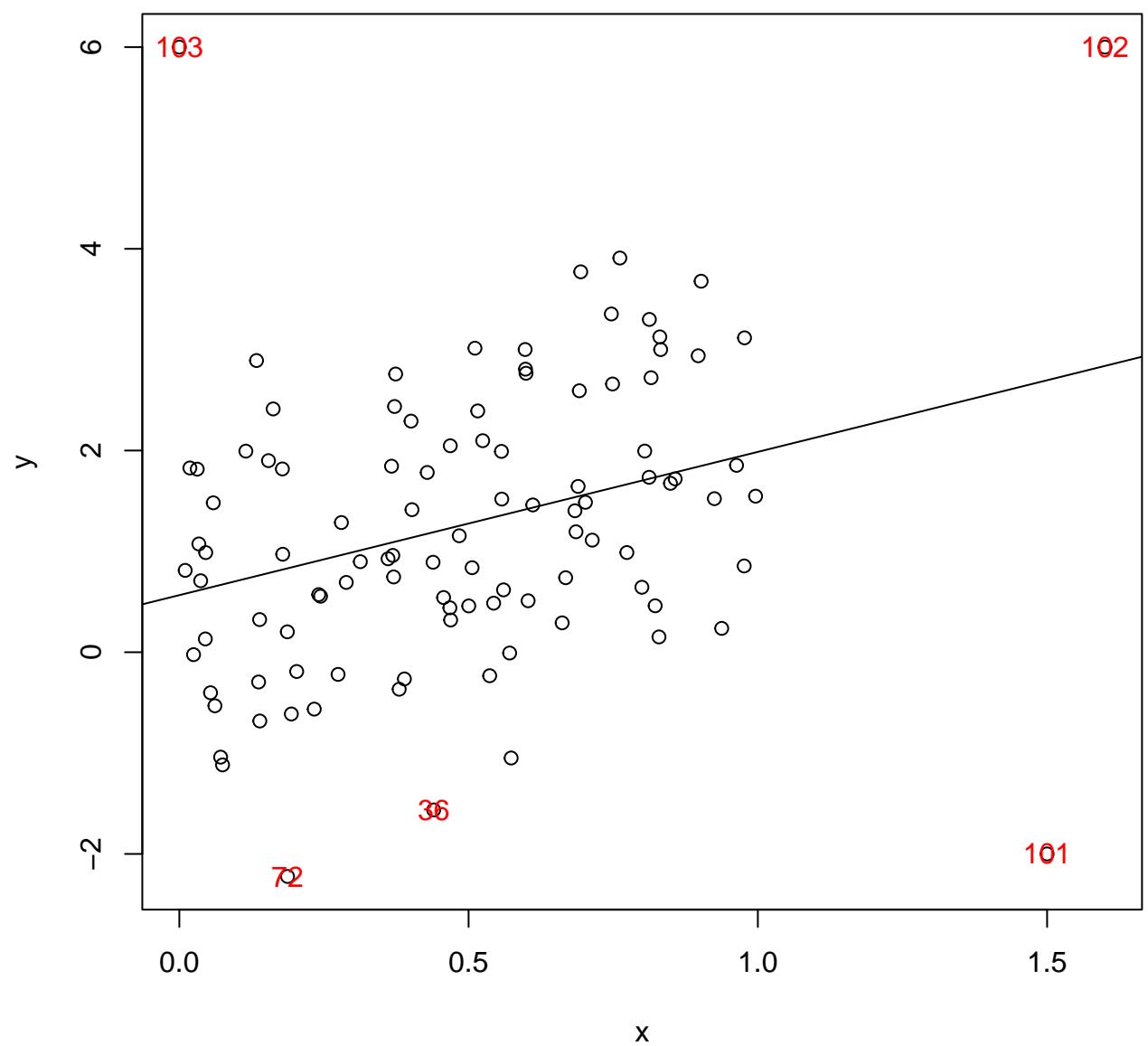
help("noteworthy")



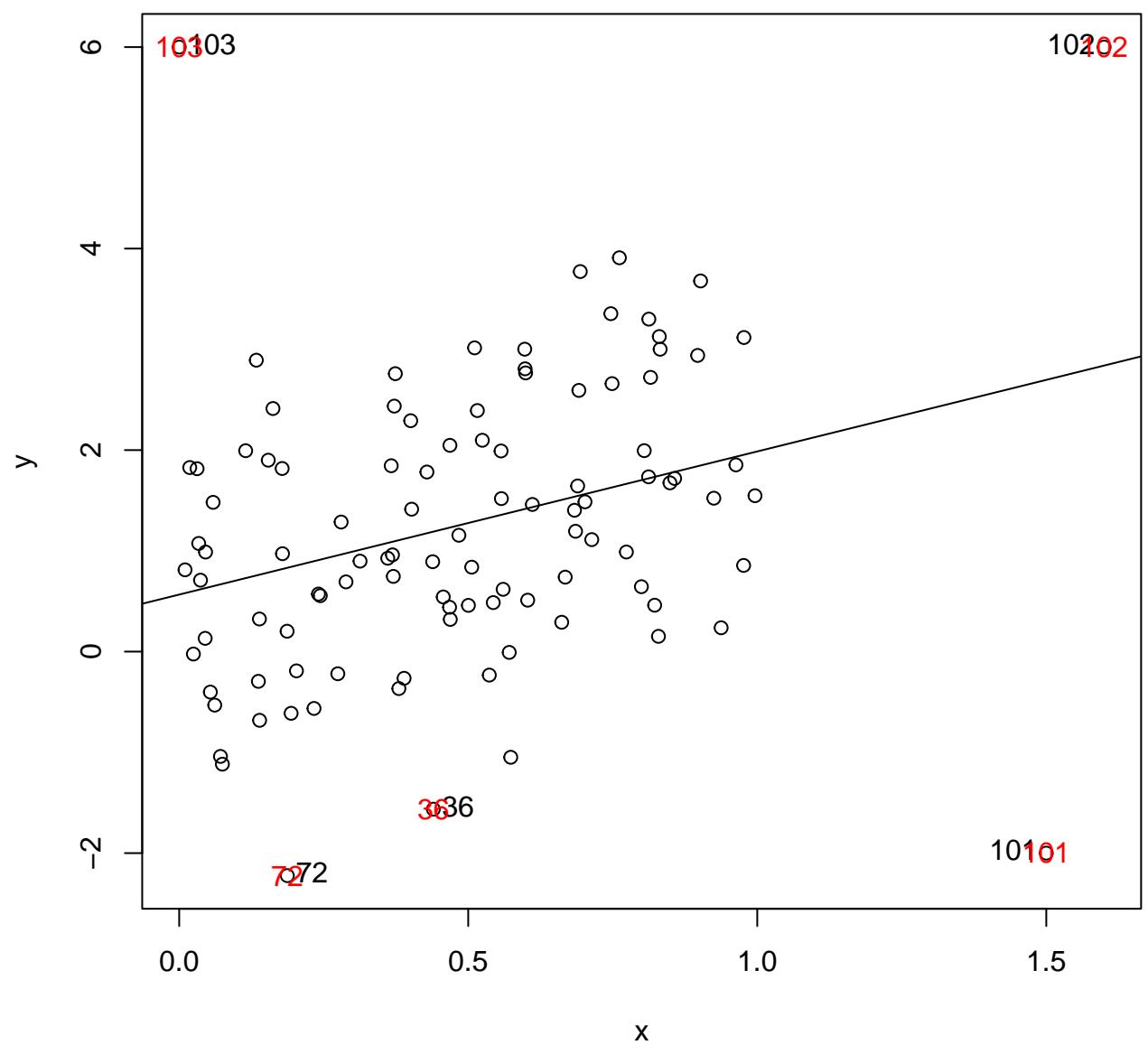
help("noteworthy")



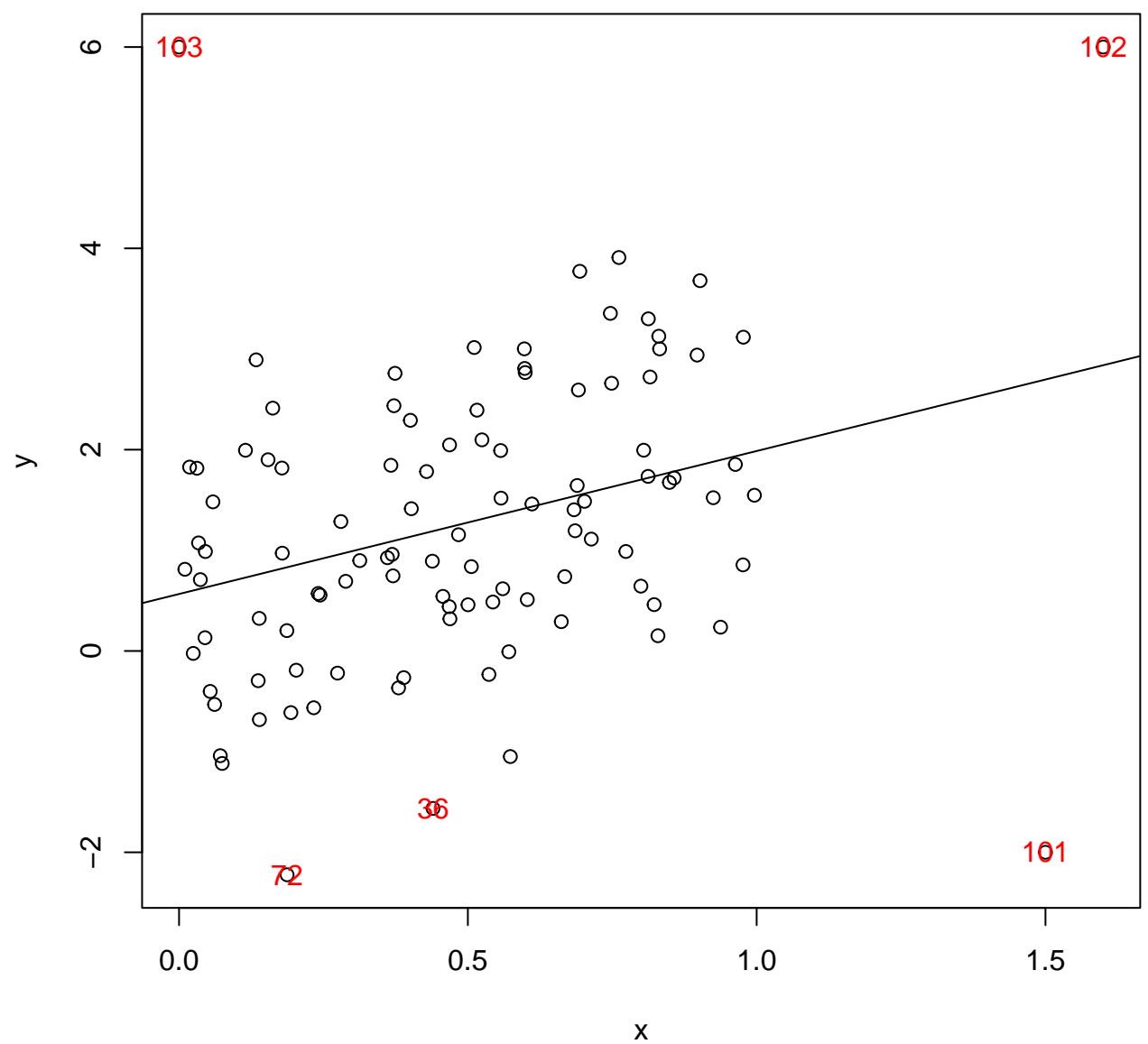
help("noteworthy")



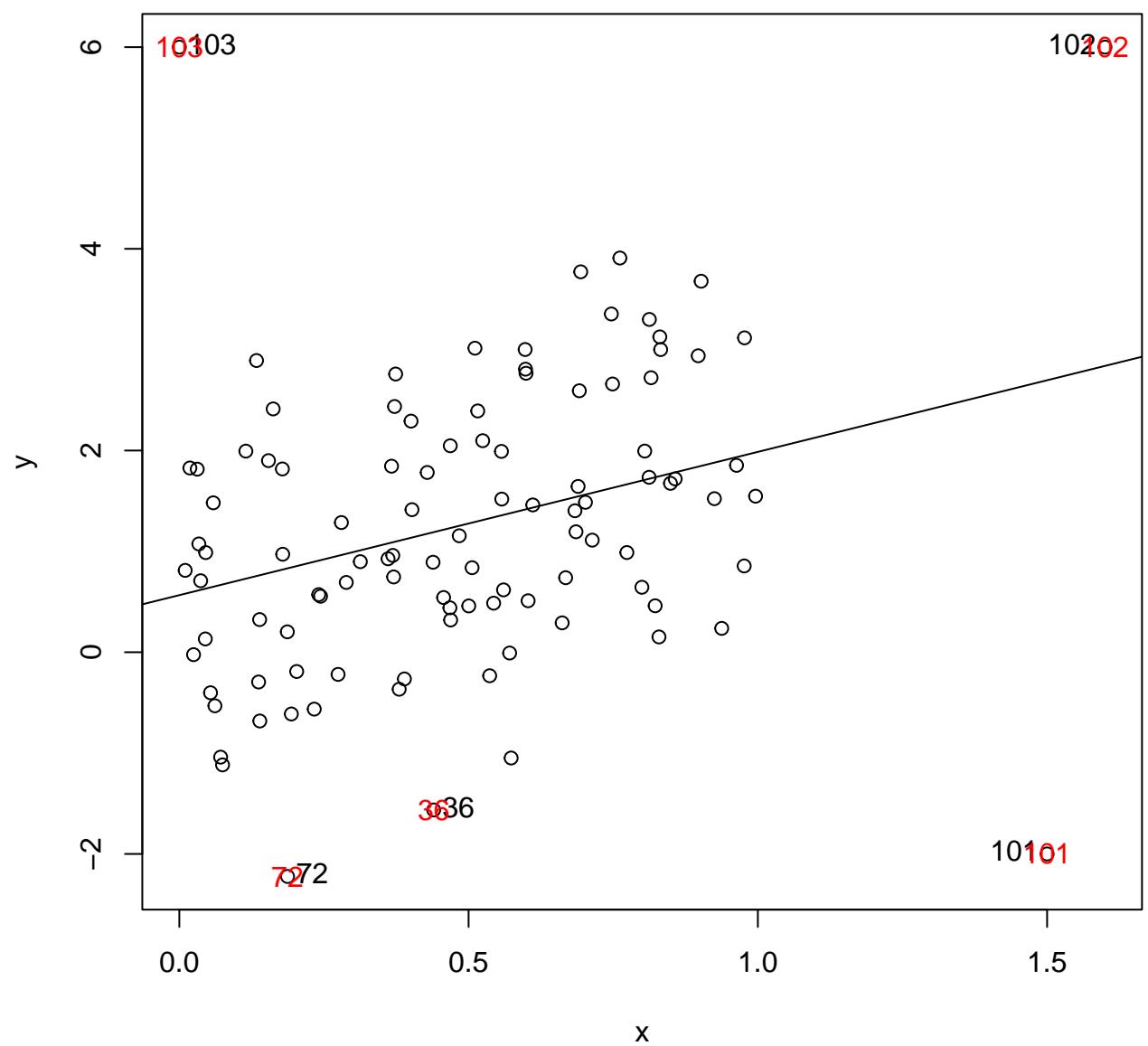
help("noteworthy")



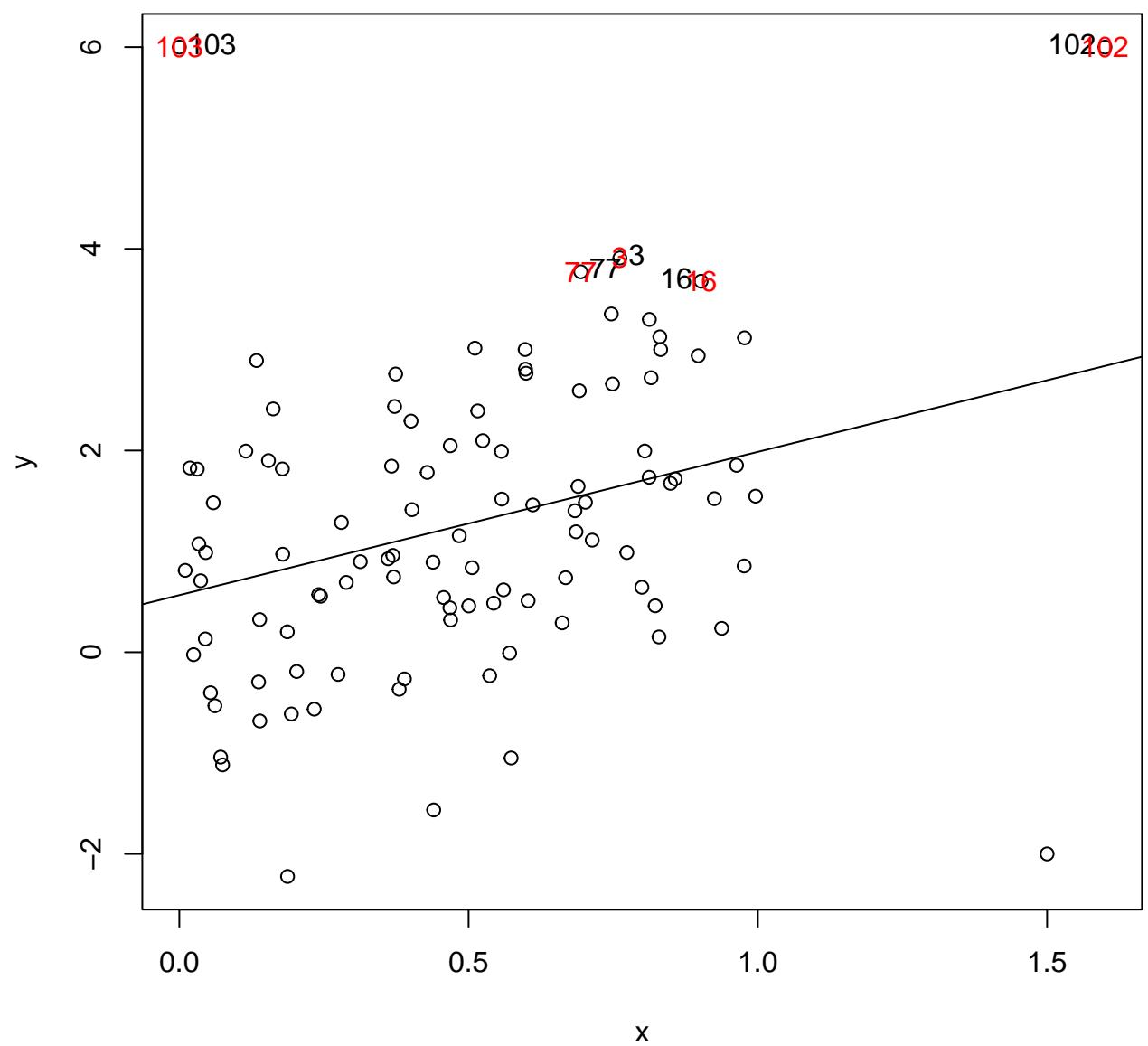
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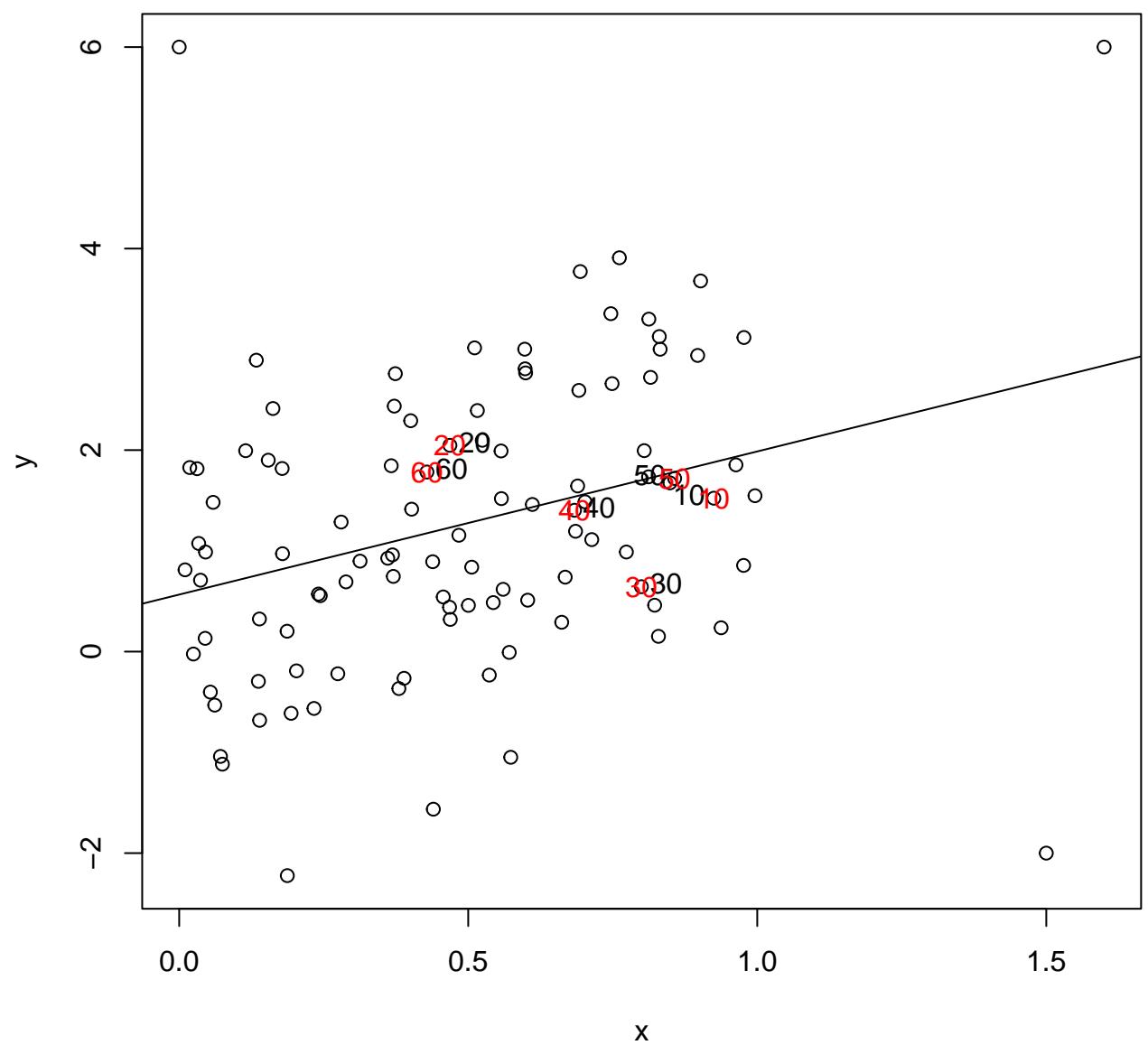
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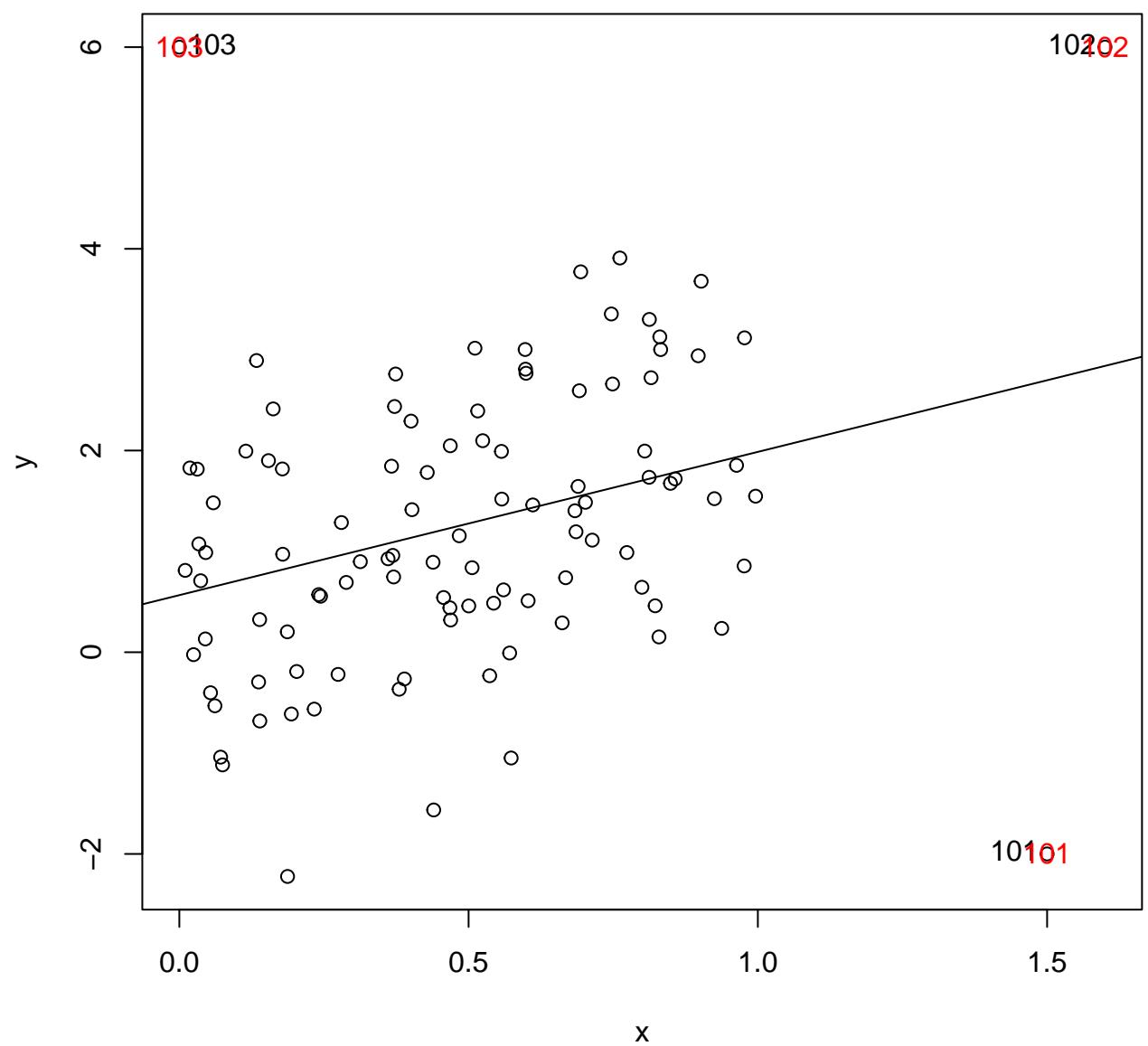
help("noteworthy")



help("noteworthy")

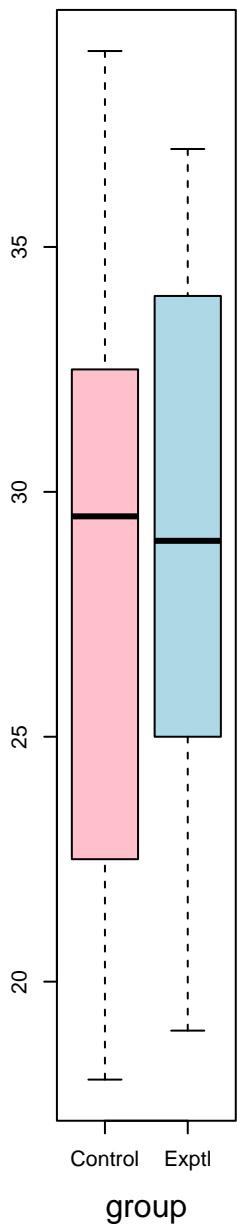


help("noteworthy")

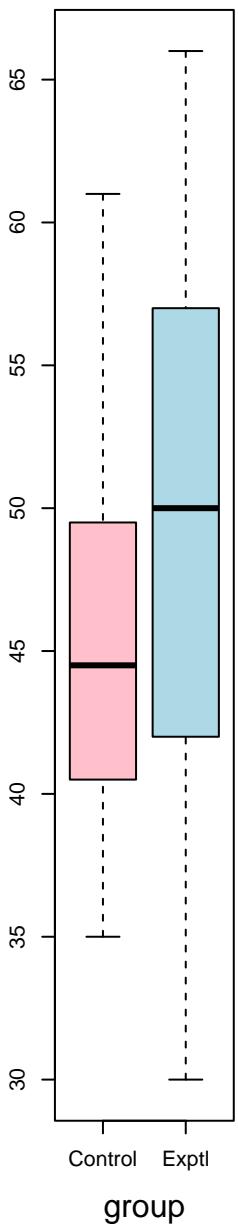


help("oral")

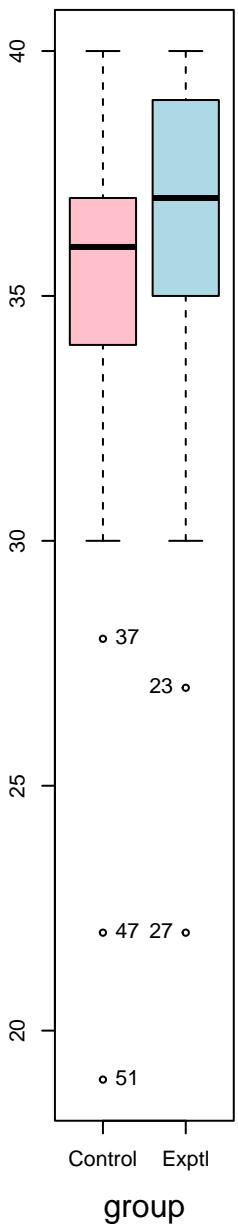
listen



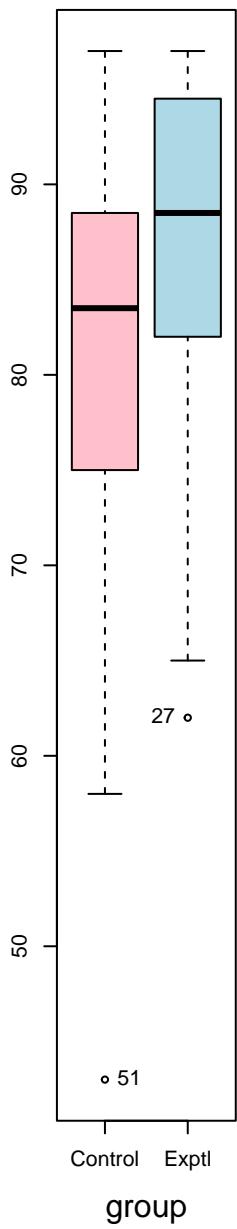
speak



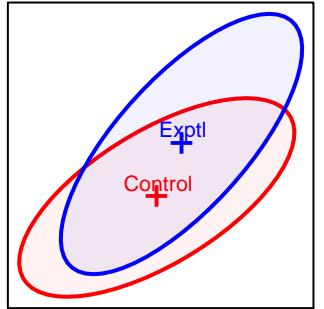
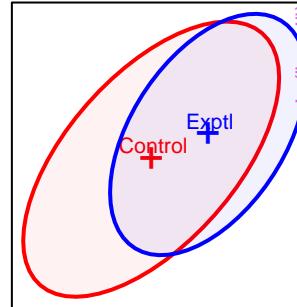
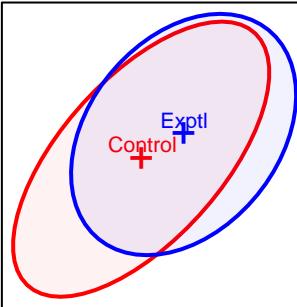
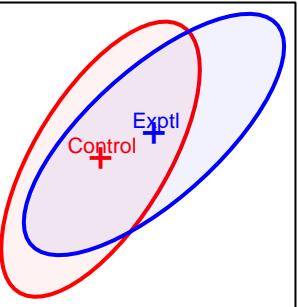
read



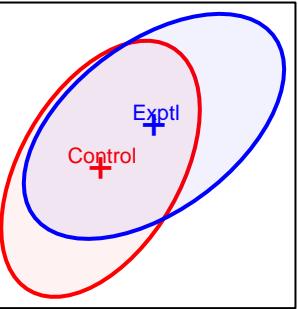
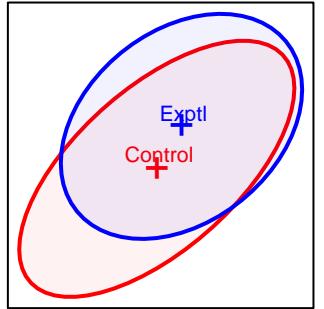
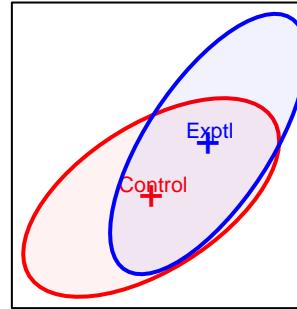
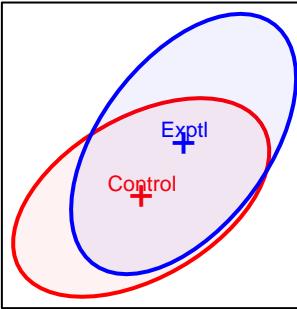
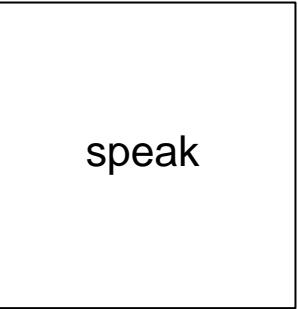
write



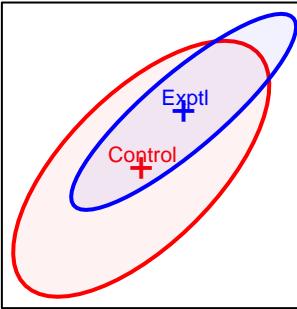
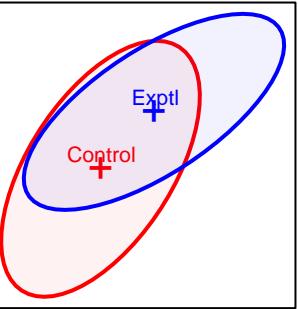
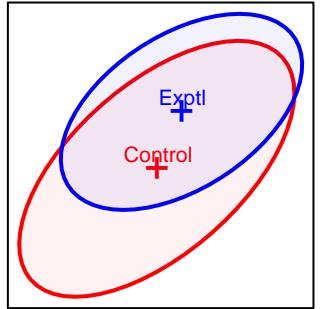
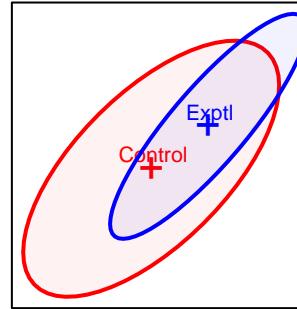
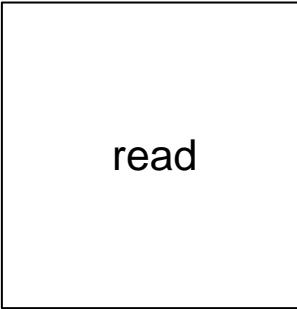
listen



speak



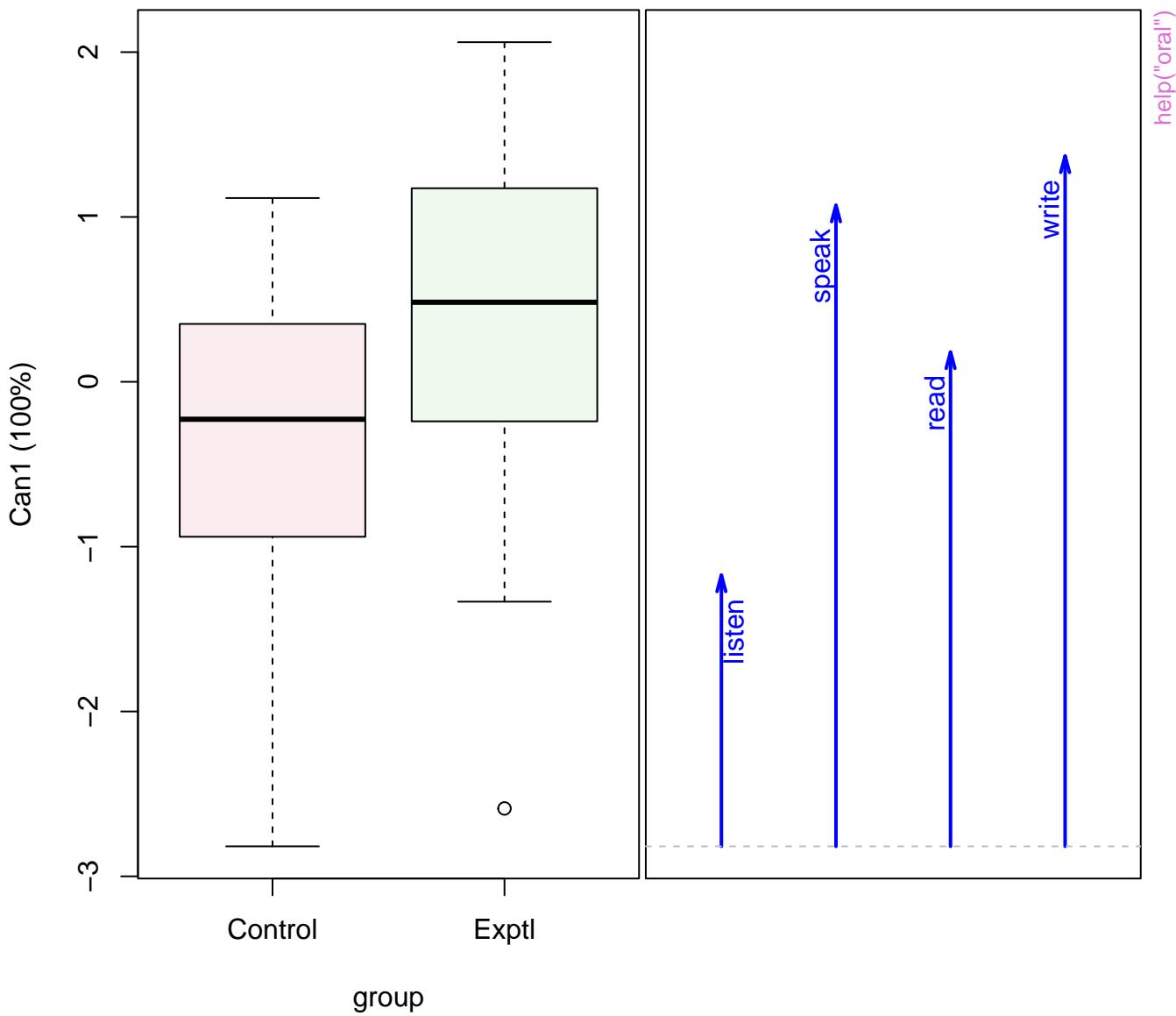
read



write

## Canonical scores

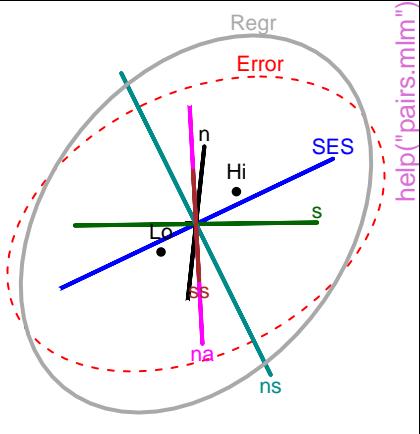
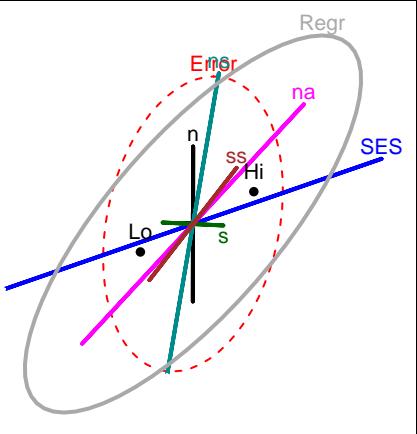
## Structure



99

SAT

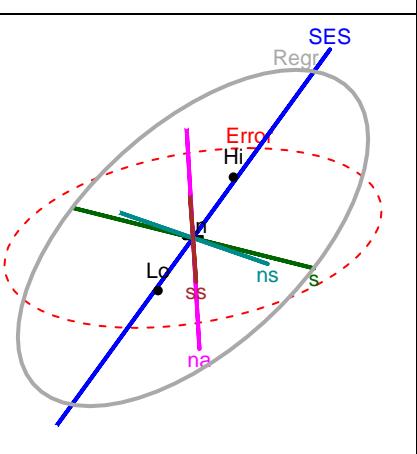
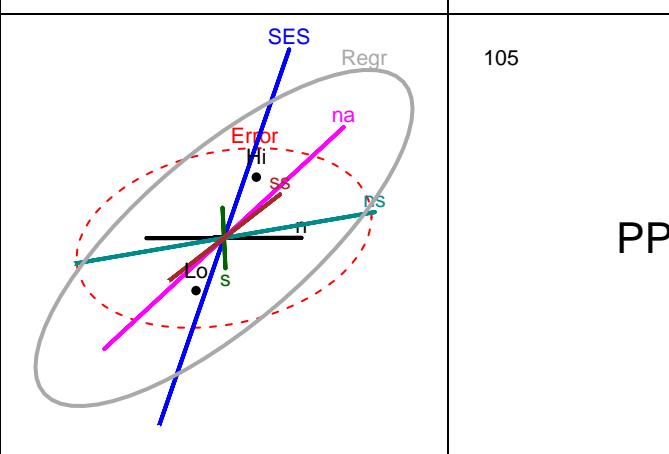
1



105

PPVT

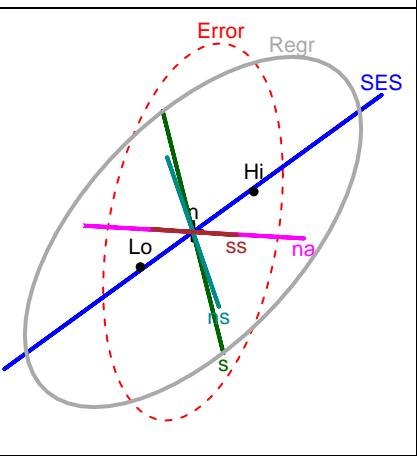
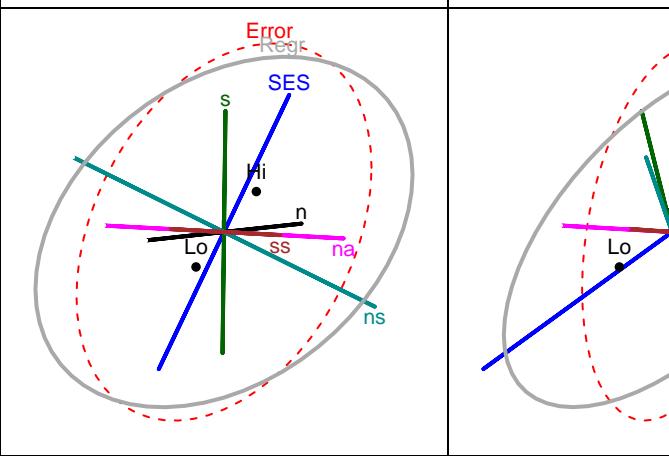
40



21

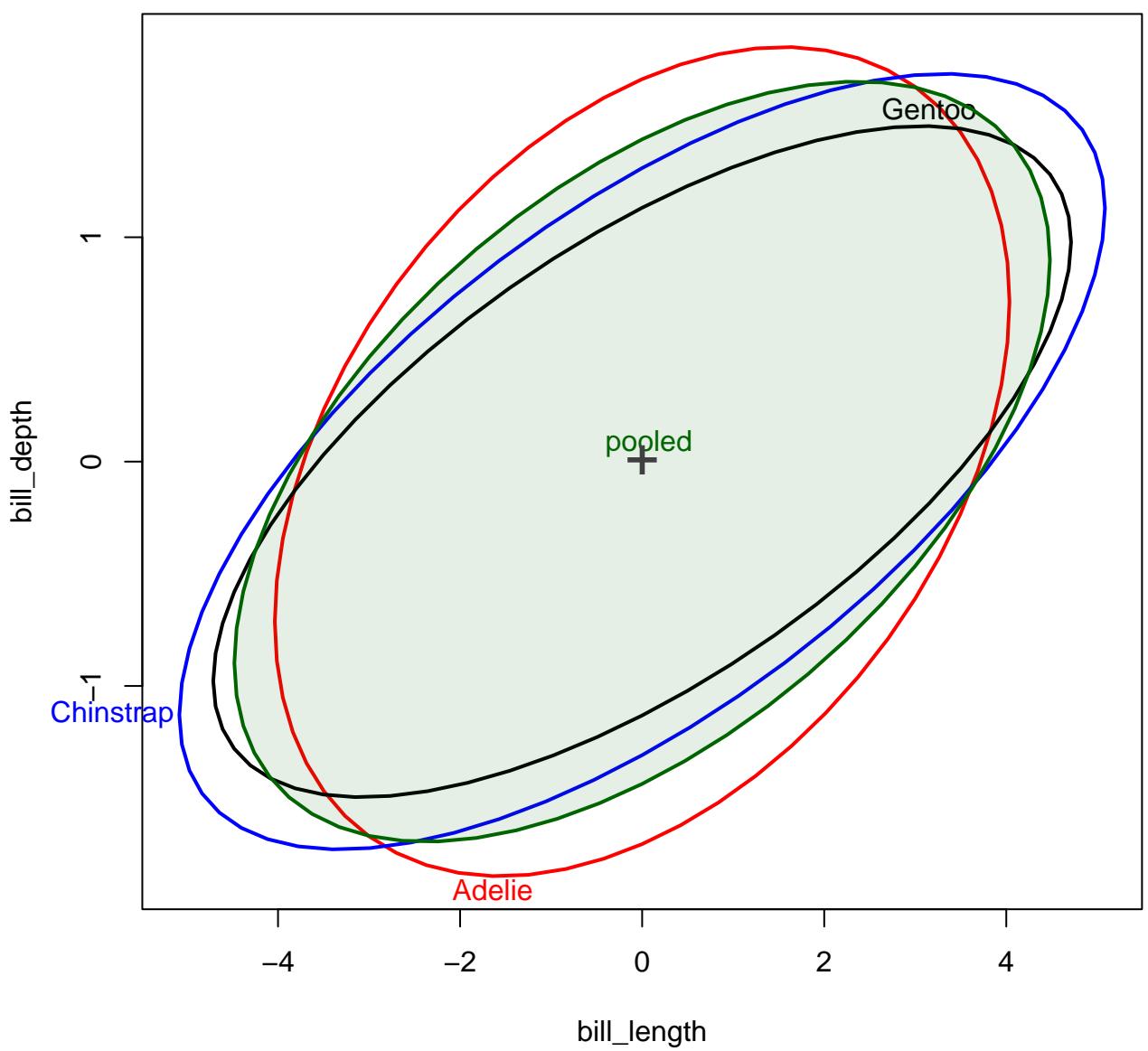
Raven

8

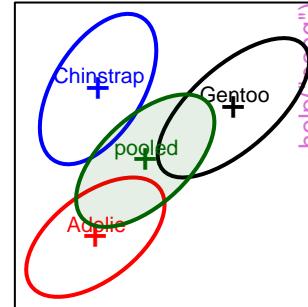
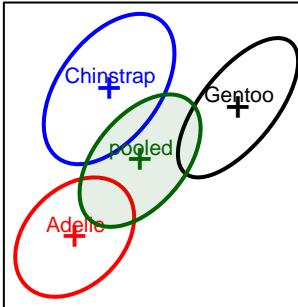
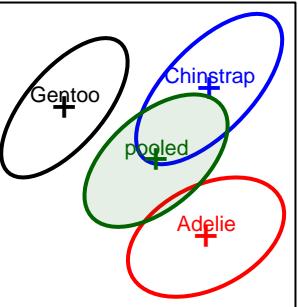


help("pairs.mlm")

help("peng")



bill\_length



Adelie

Chinstrap

pooled

Gentoo

bill\_depth

Adelie

Chinstrap

pooled

Gentoo

Chinstrap

pooled

Gentoo

Adelie

Chinstrap

pooled

Gentoo

flipper\_length

Chinstrap

Adelie

Gentoo

Adelie

Chinstrap

pooled

Gentoo

Adelie

Chinstrap

Gentoo

body\_mass

help("peng")

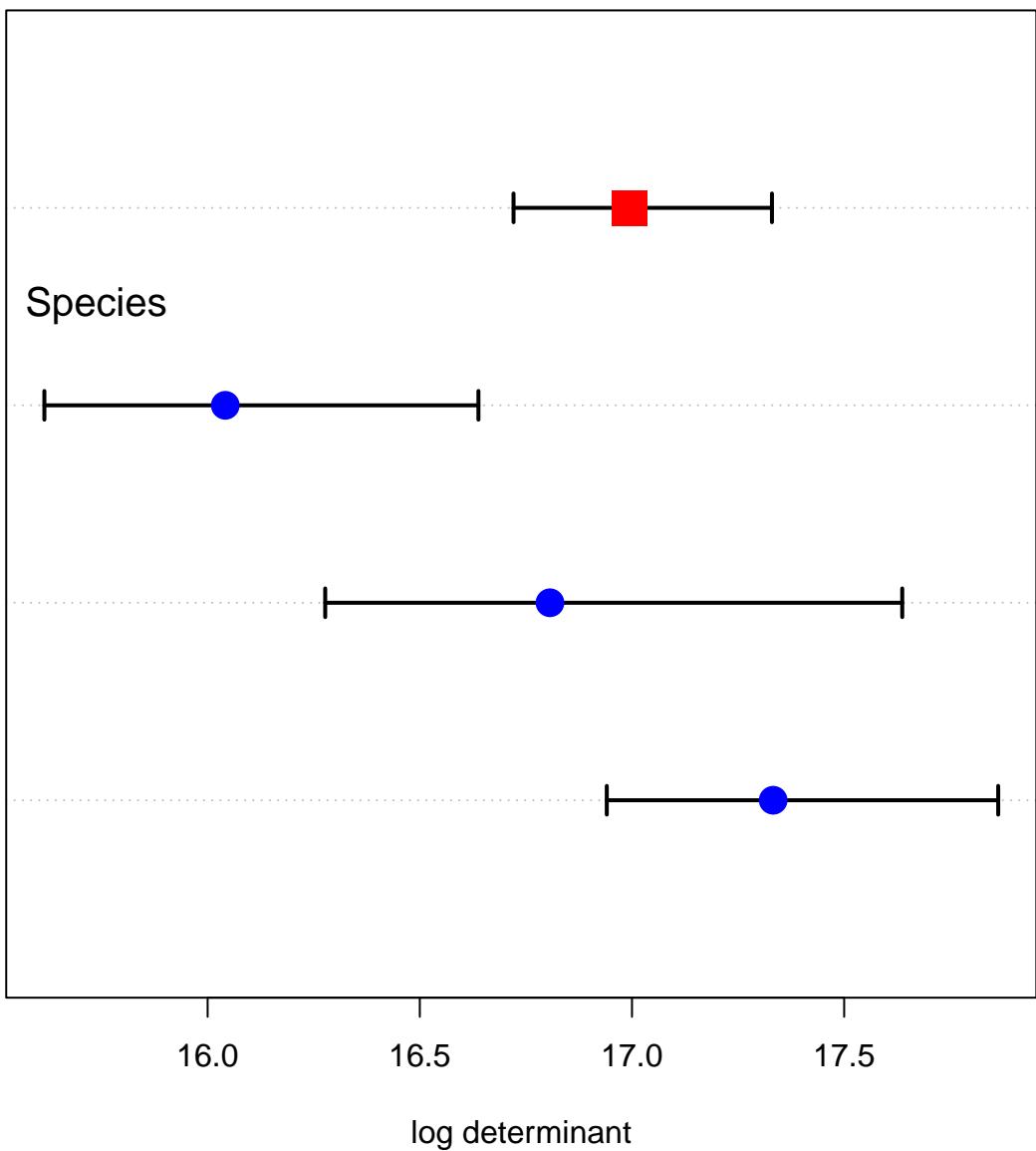
pooled

Species

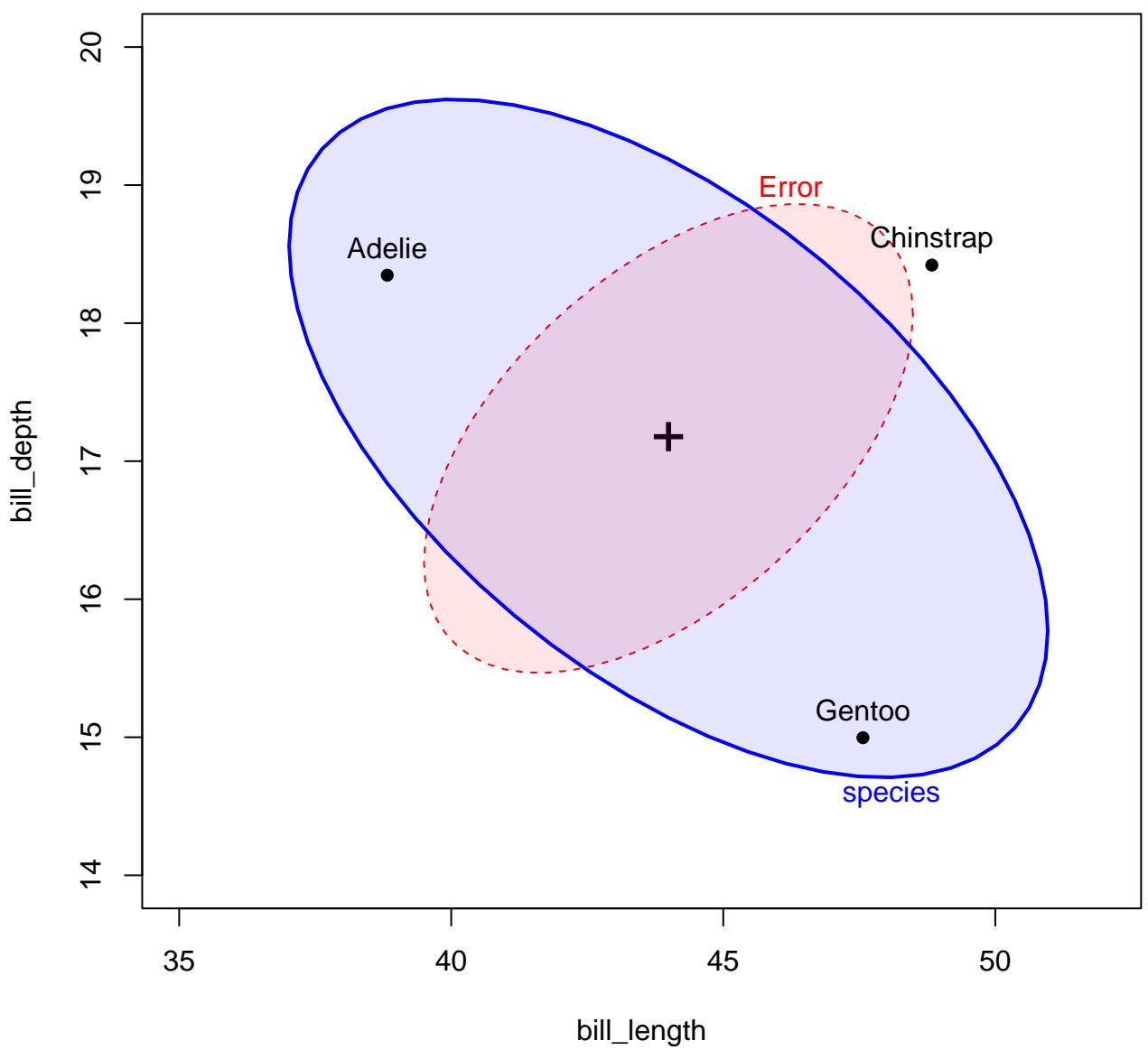
Gentoo

Chinstrap

Adelie



help("peng")



help("plot.boxM")

pooled

Species

virginica

versicolor

setosa

-13

-12

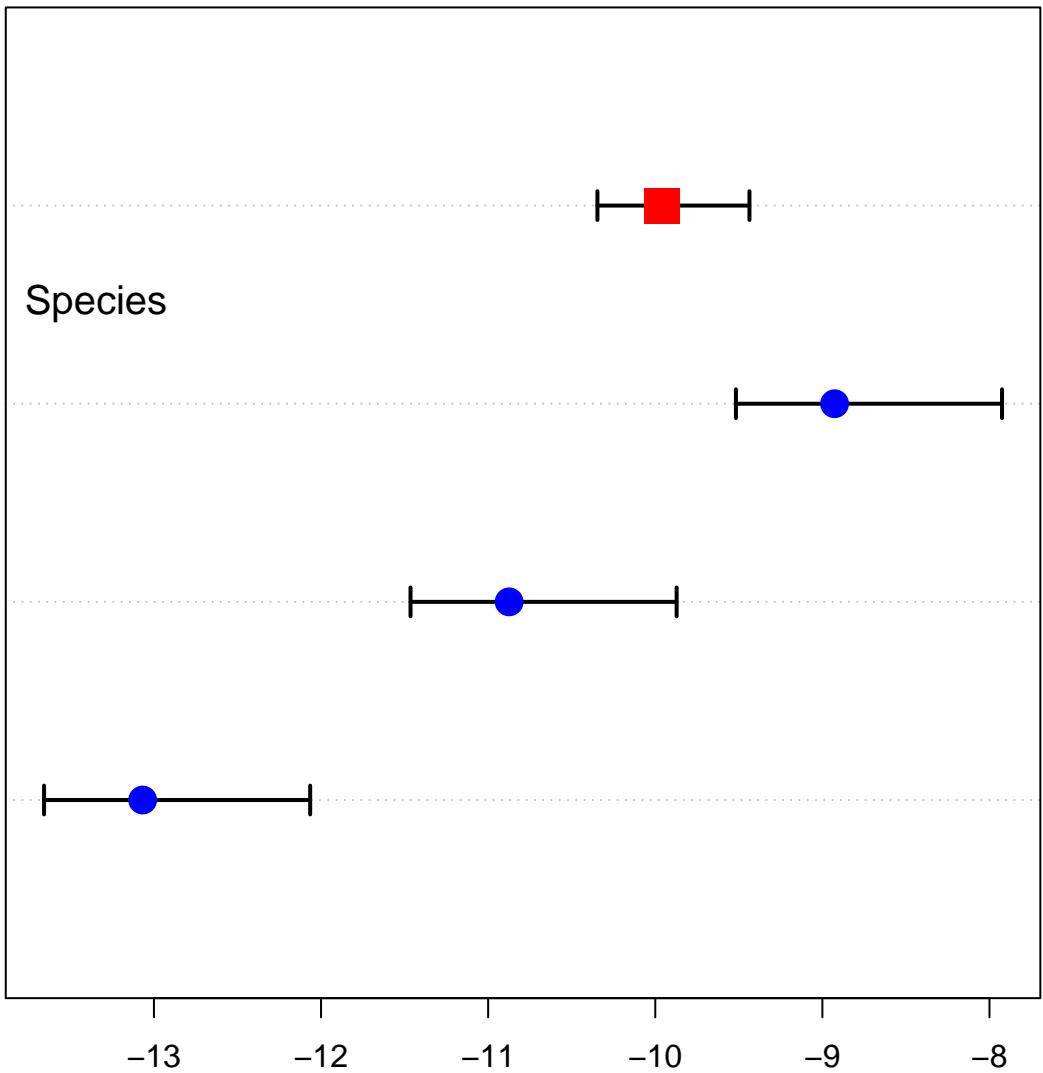
-11

-10

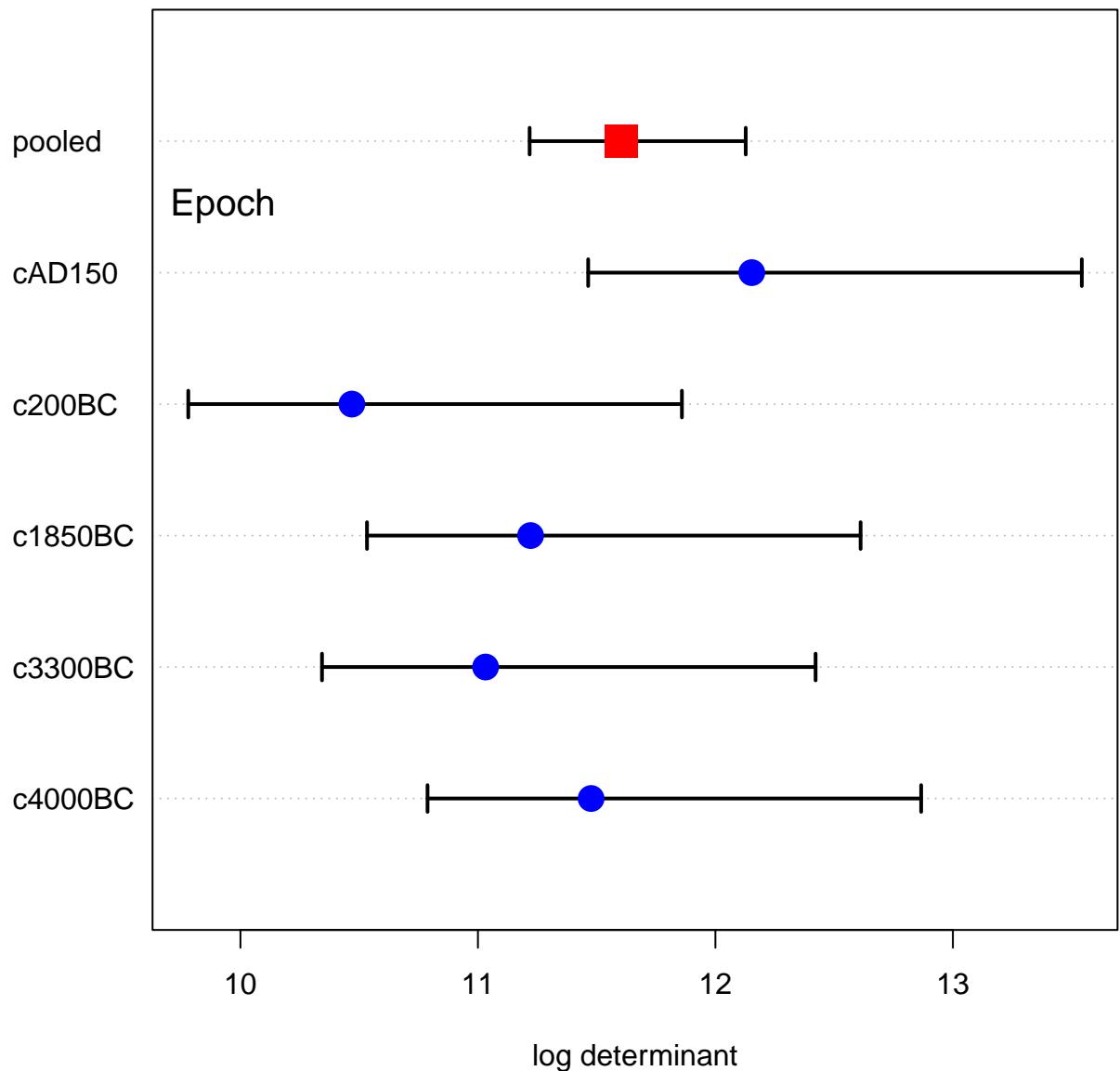
-9

-8

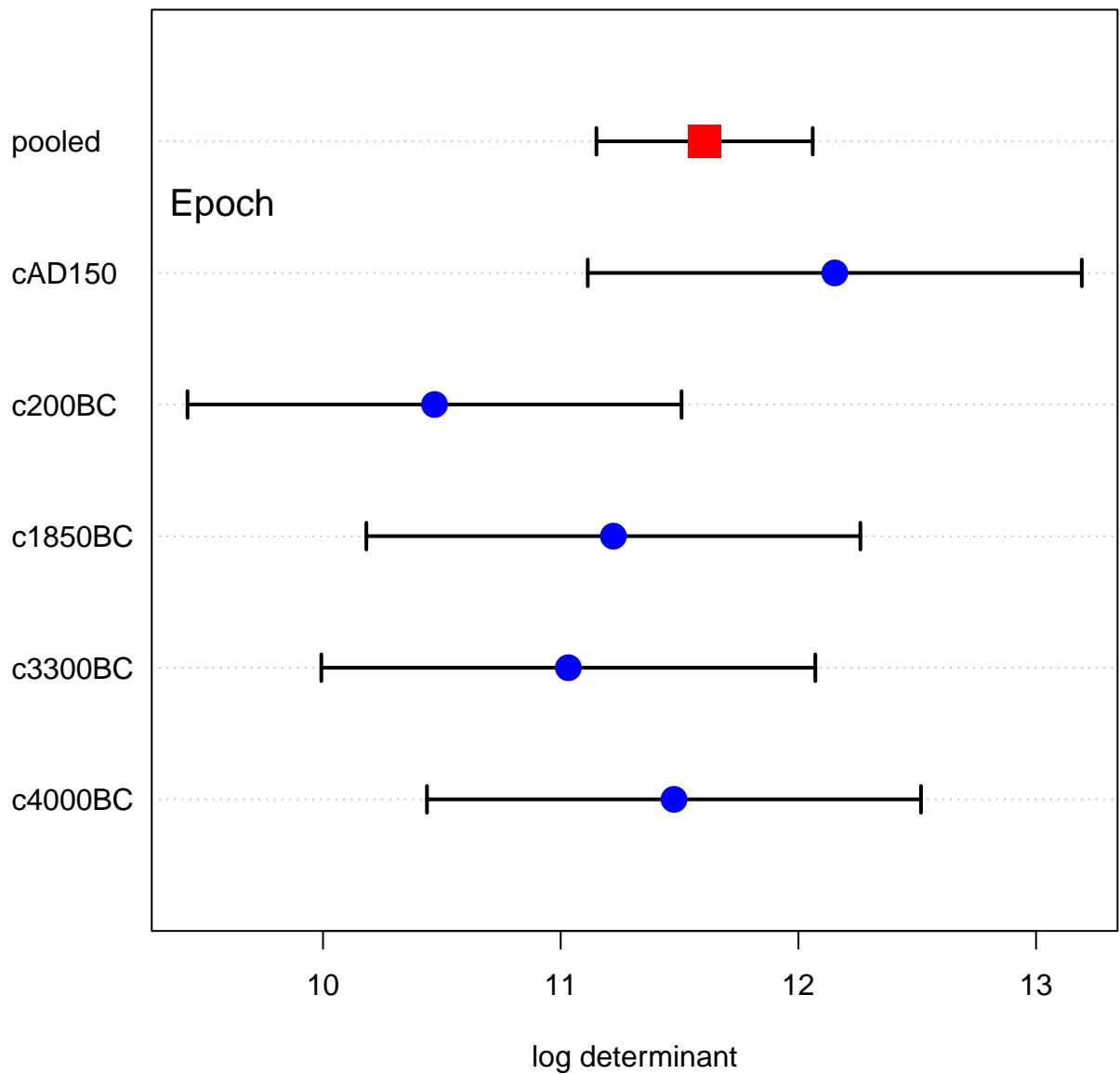
log determinant



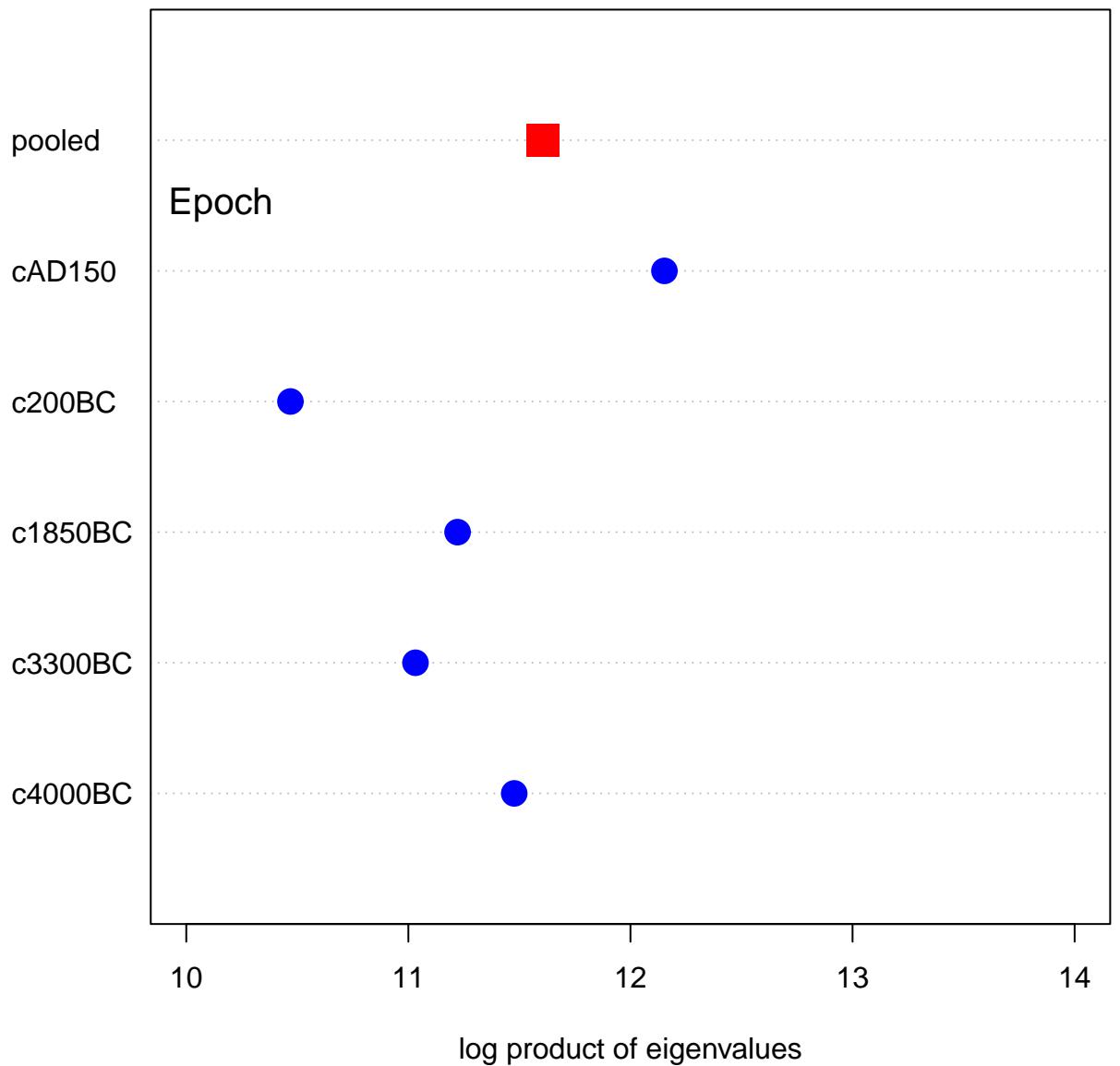
help("plot.boxM")



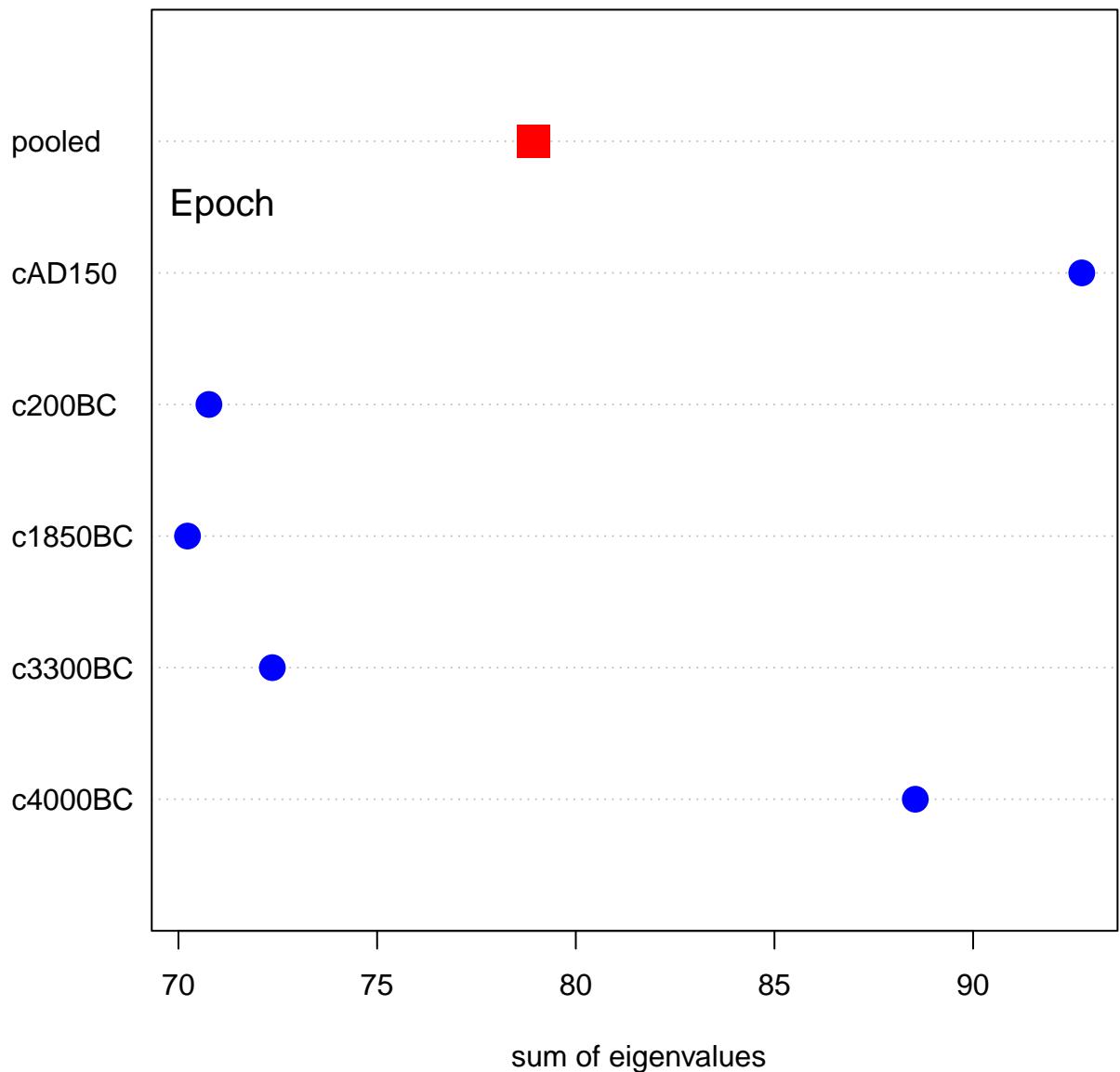
help("plot.boxM")



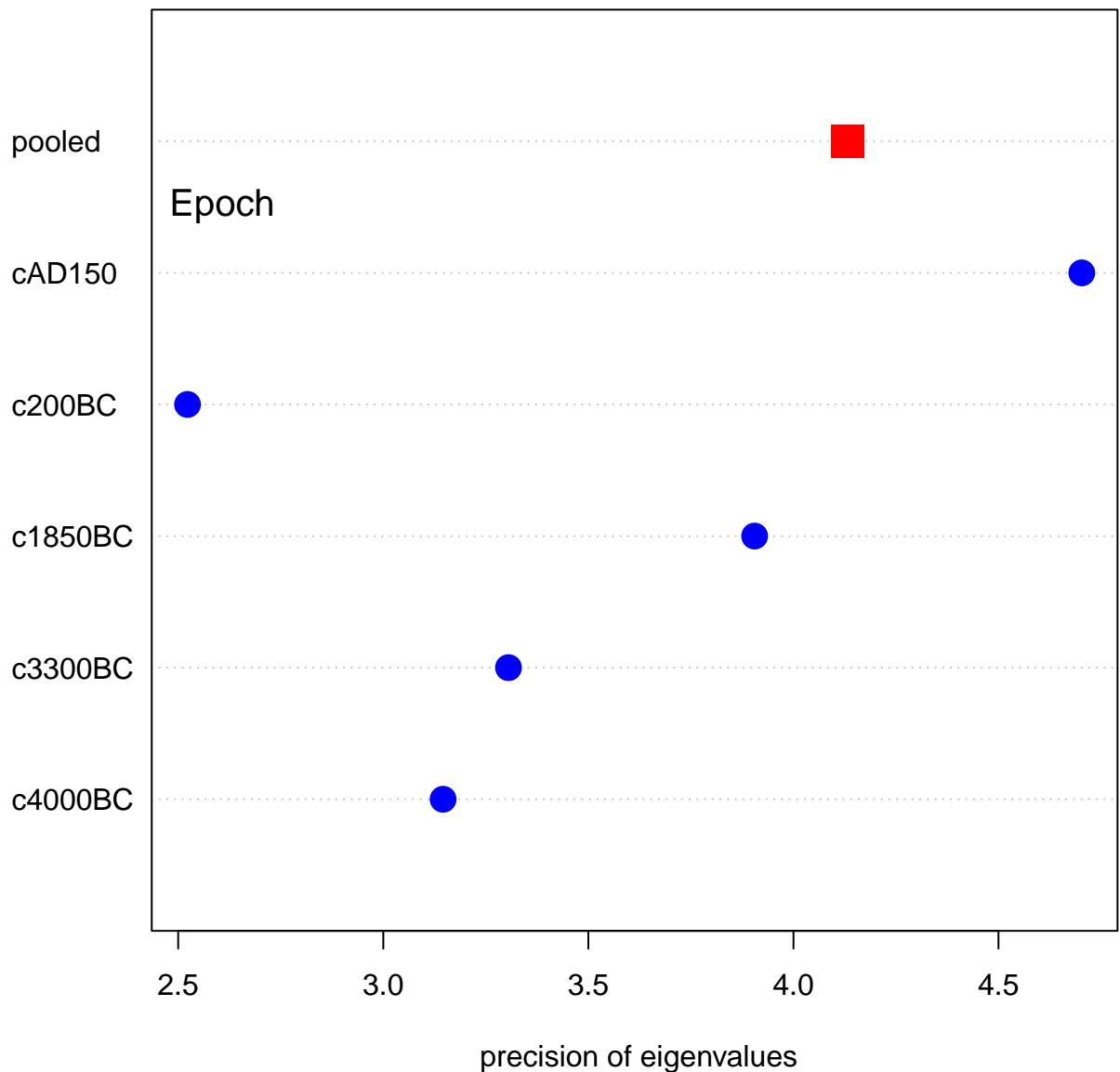
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help("plot.boxM")
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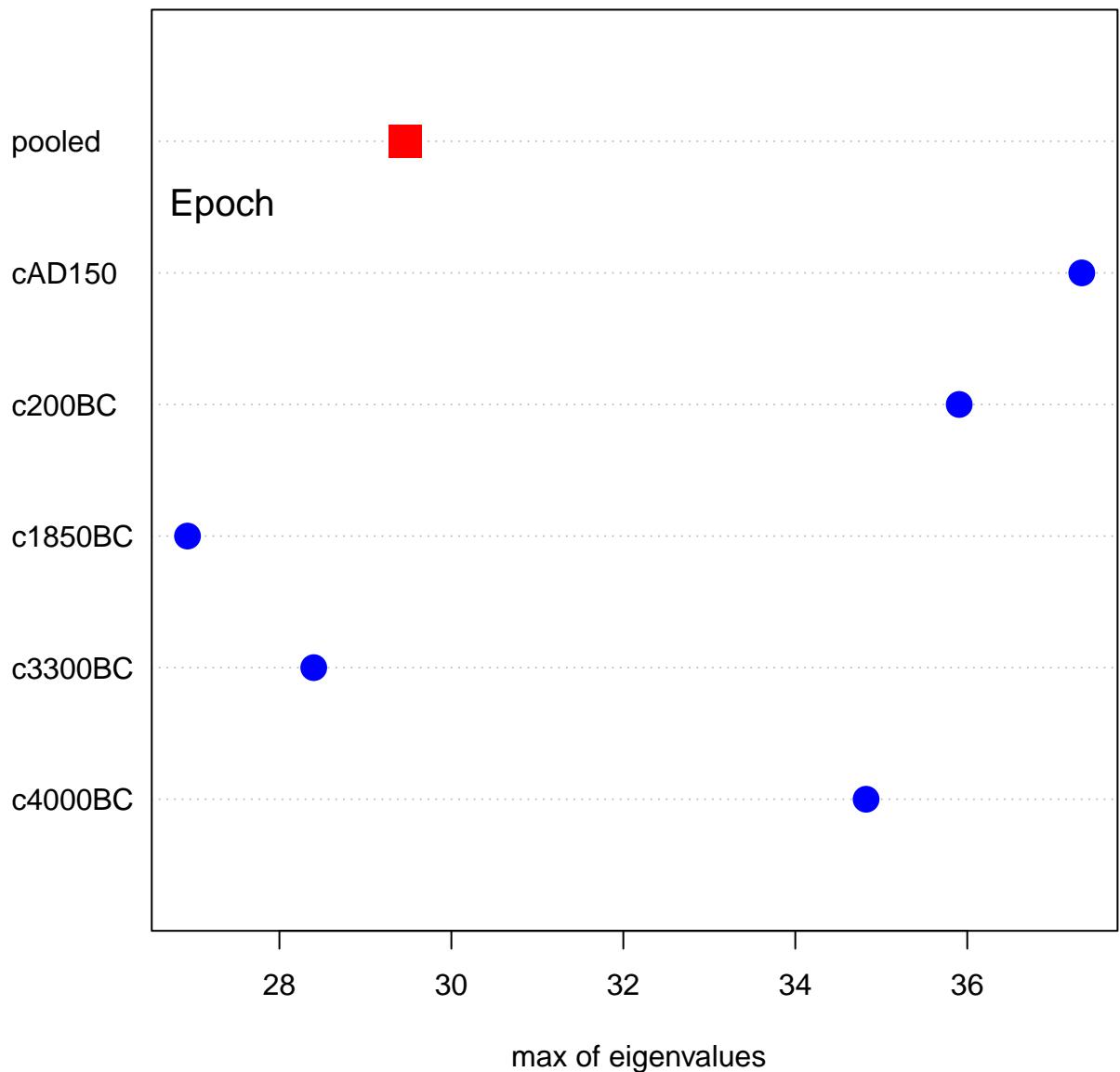
help("plot.boxM")

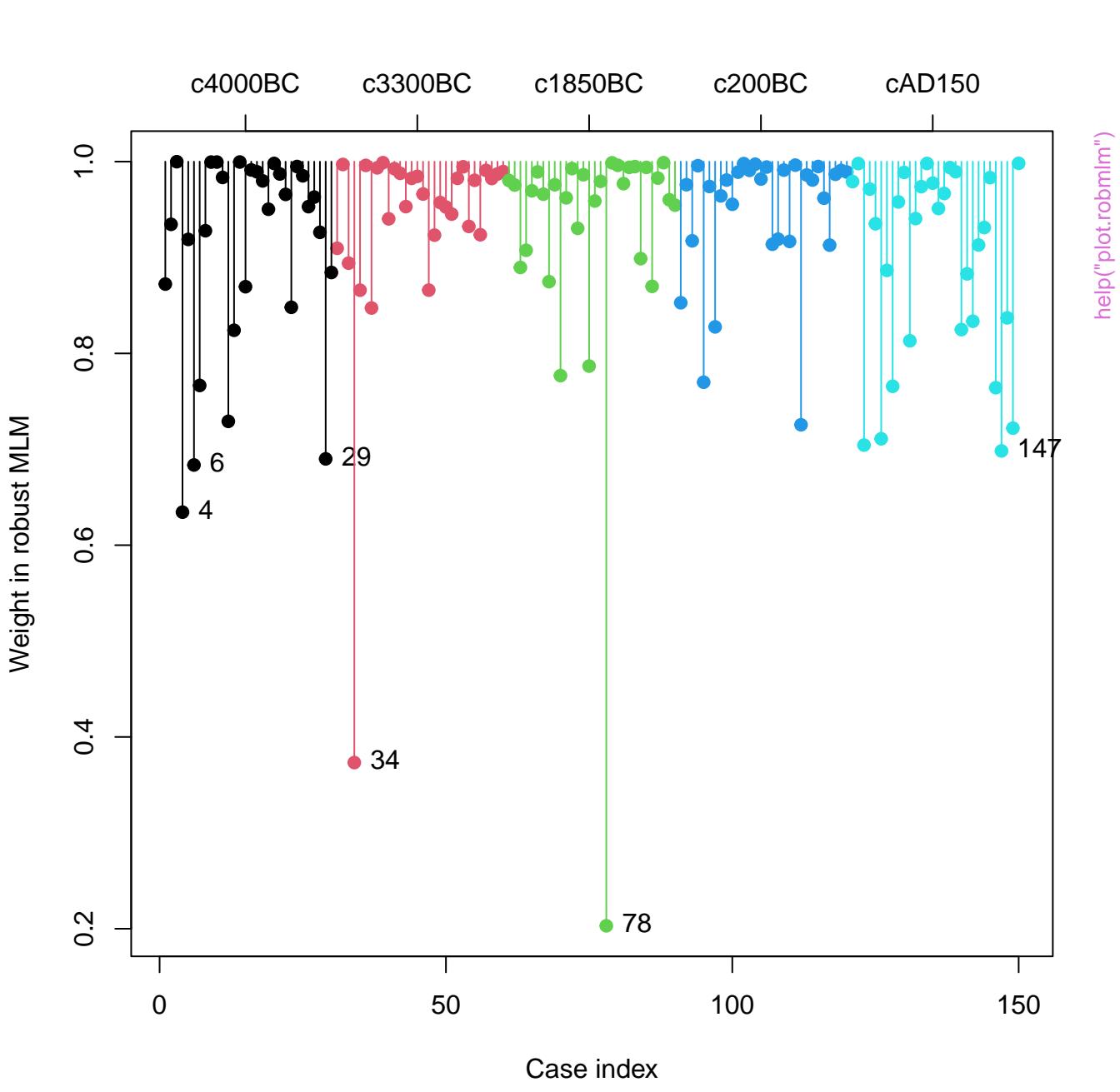


```
help("plot.boxM")
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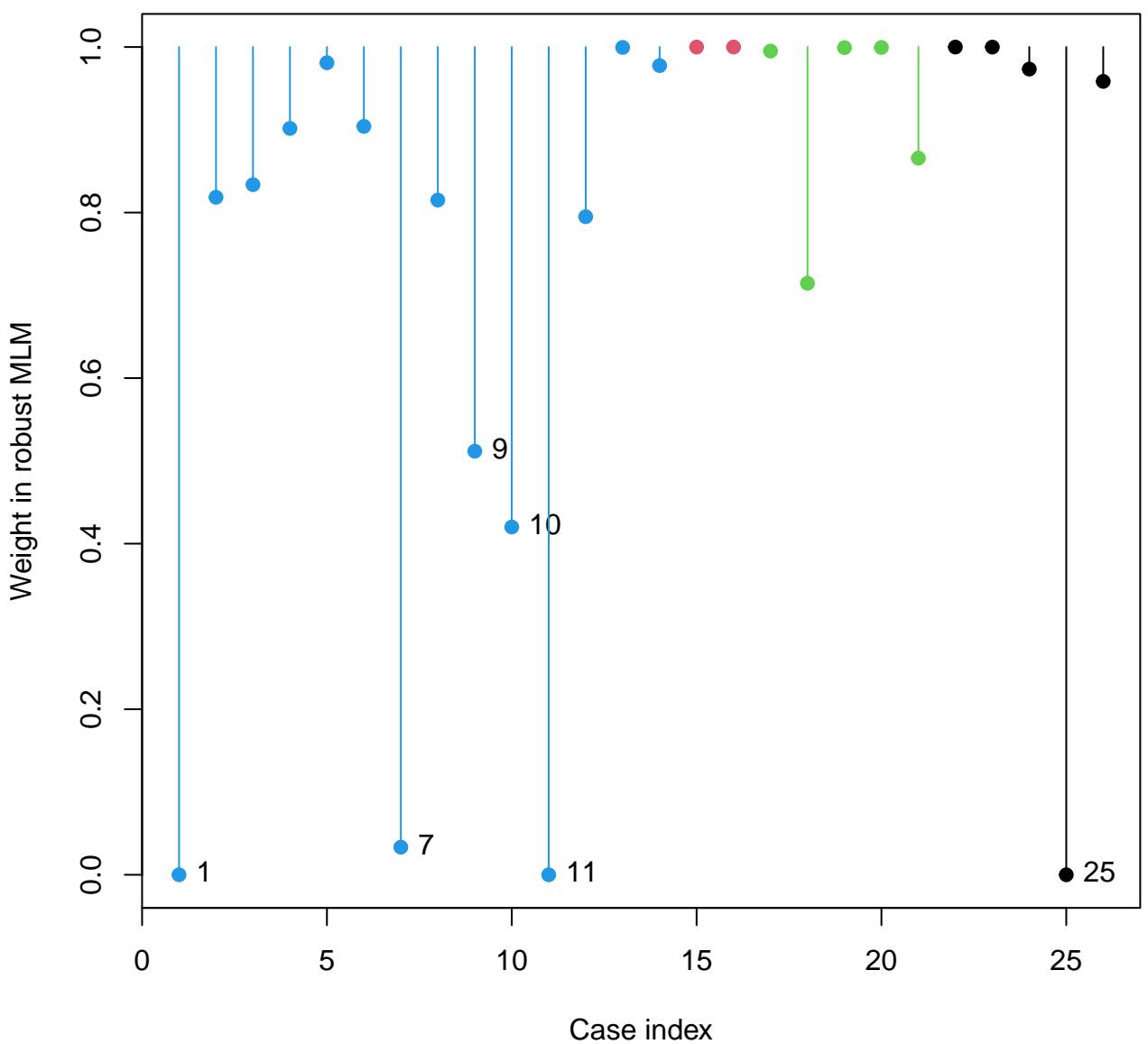


help("plot.boxM")





help("plot.robmlm")



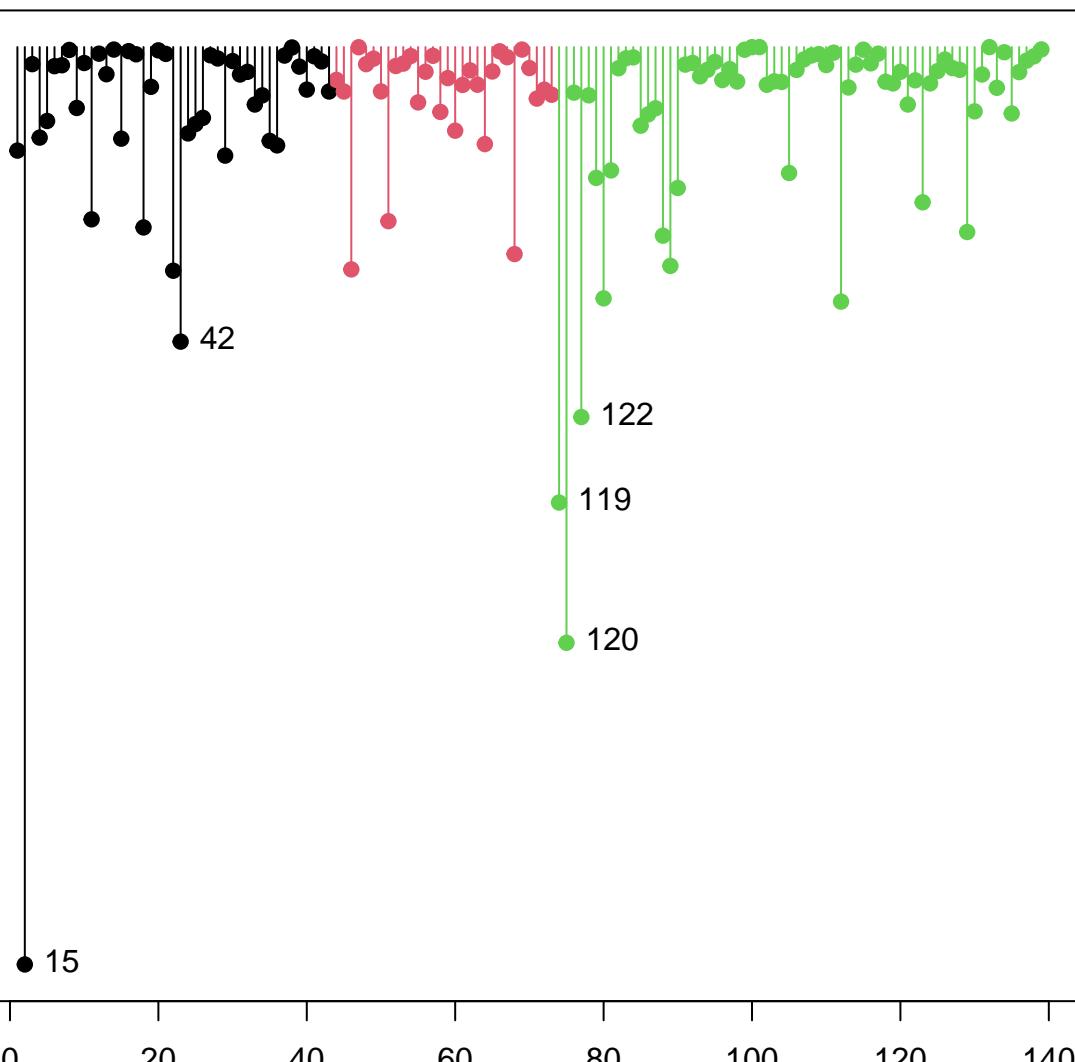
Weight in robust MLM

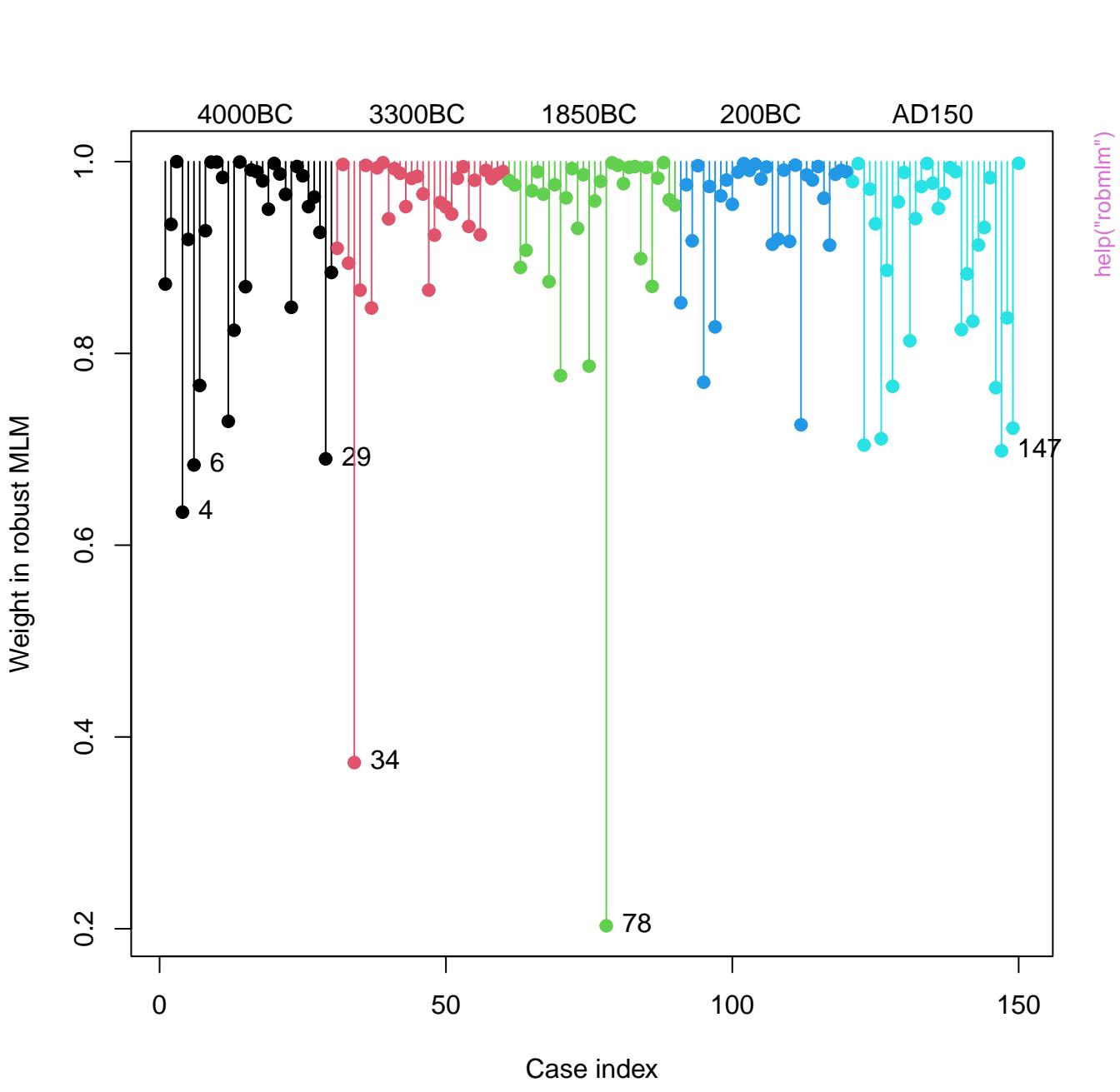
1.0  
0.8  
0.6  
0.4  
0.2  
0.0

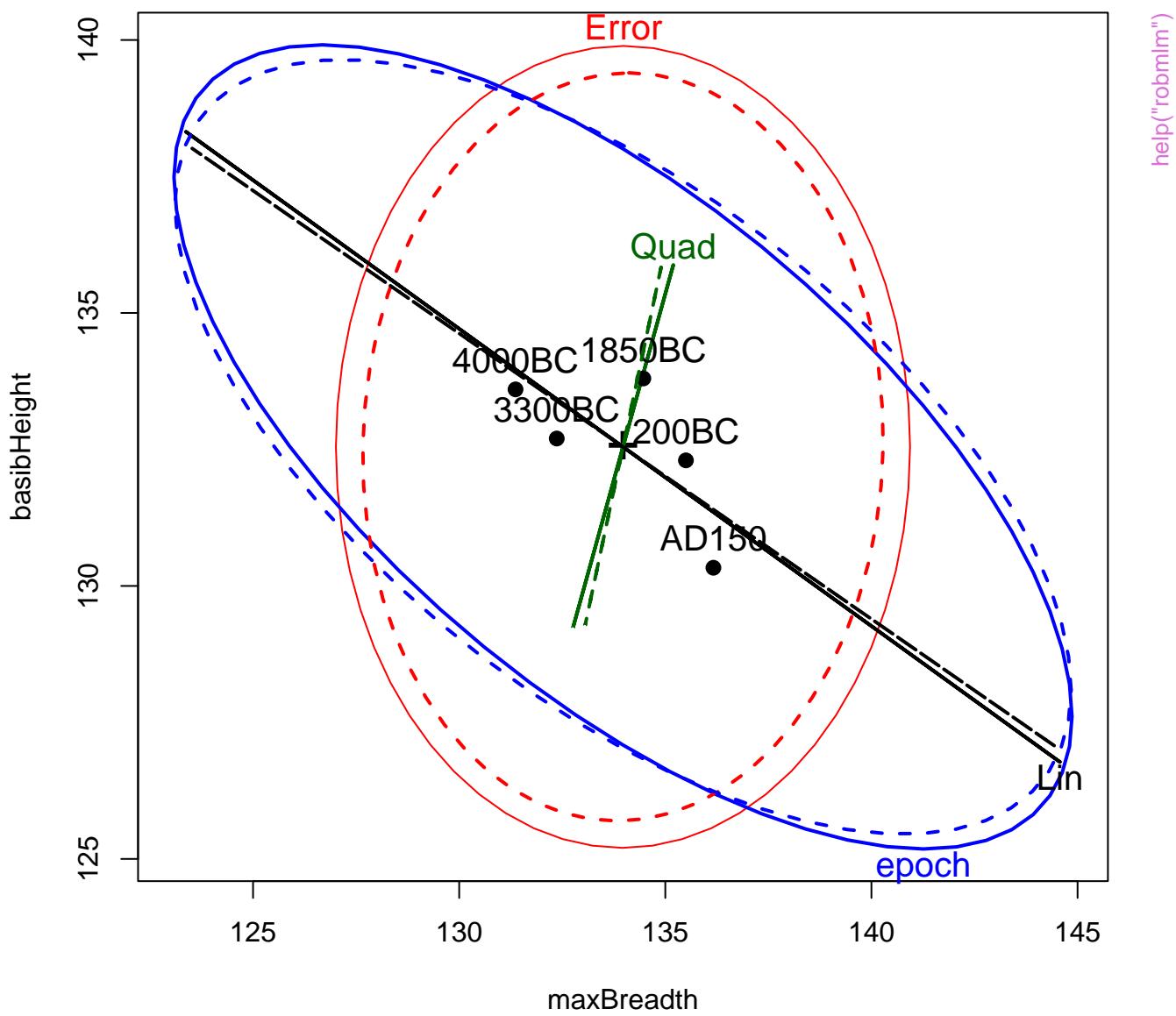
0 20 40 60 80 100 120 140

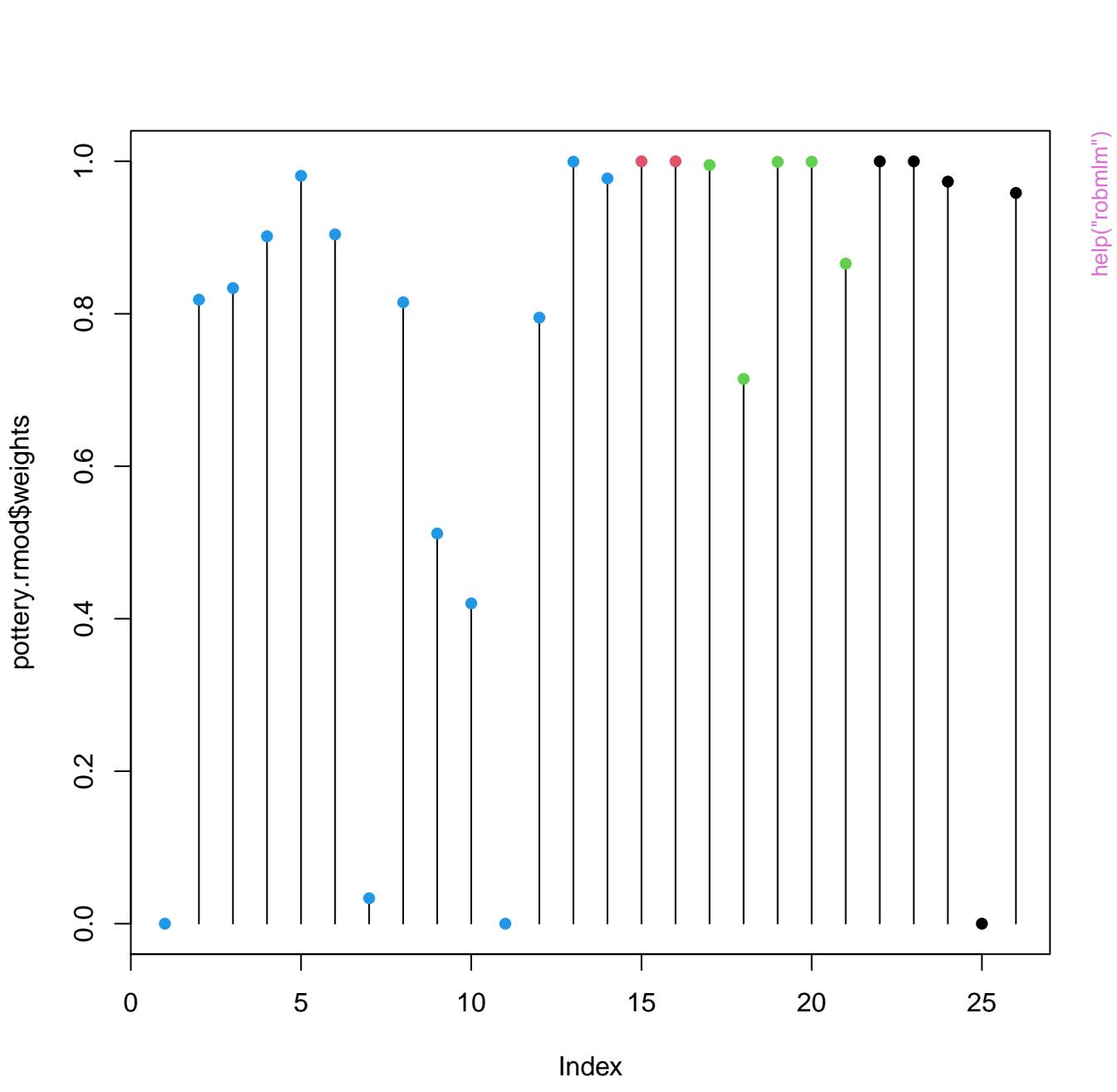
Case index

help("plot.robmlm")



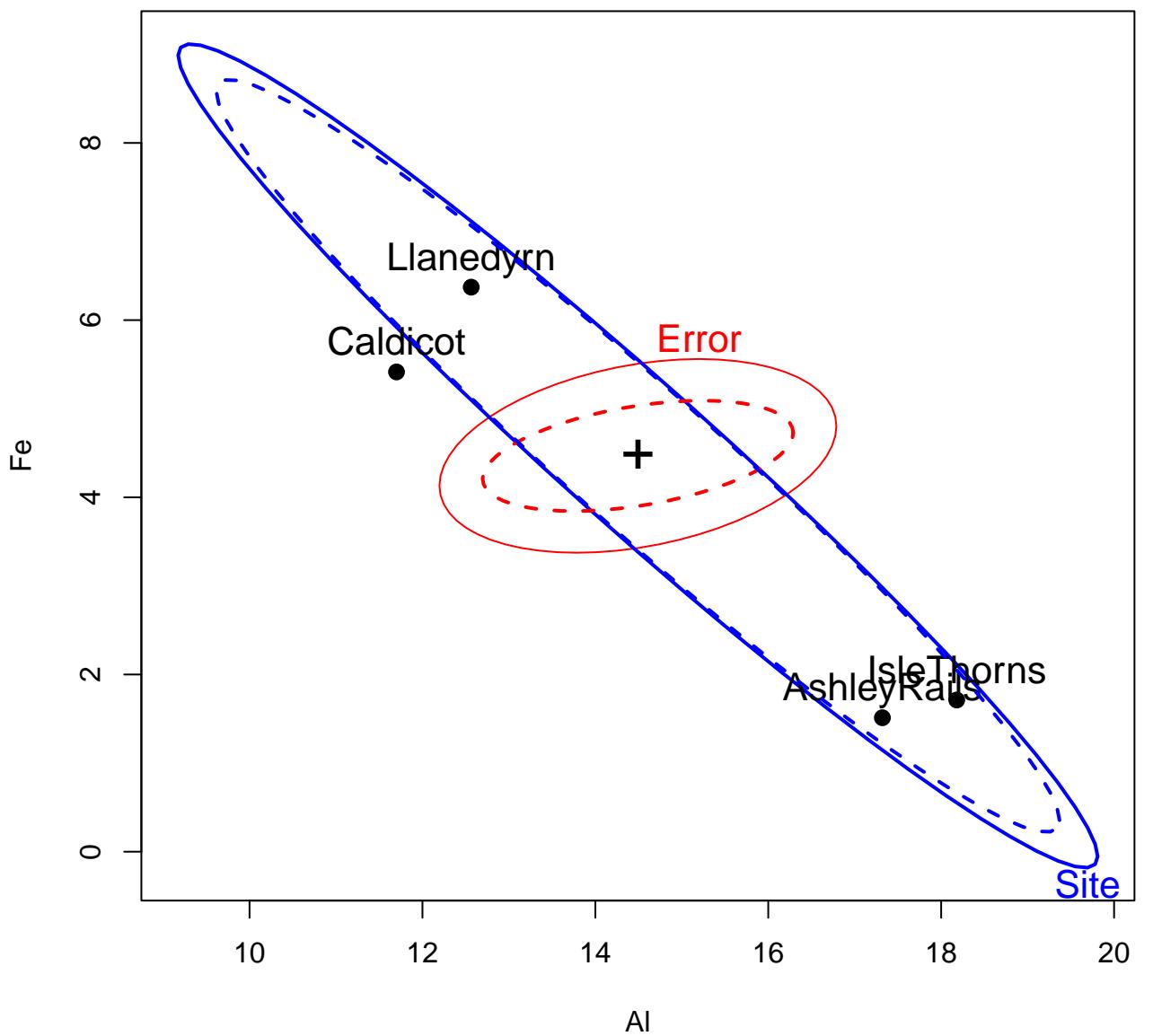


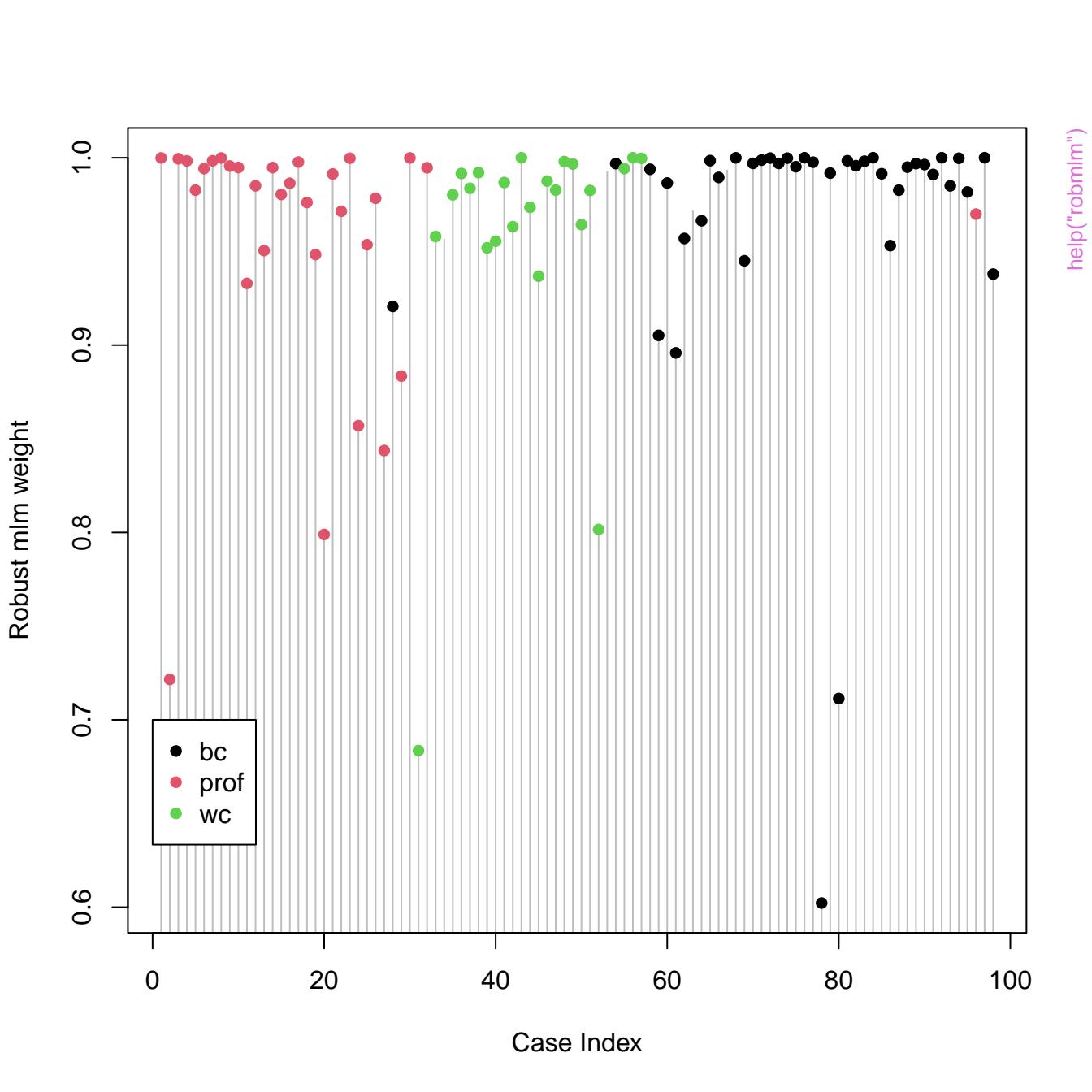




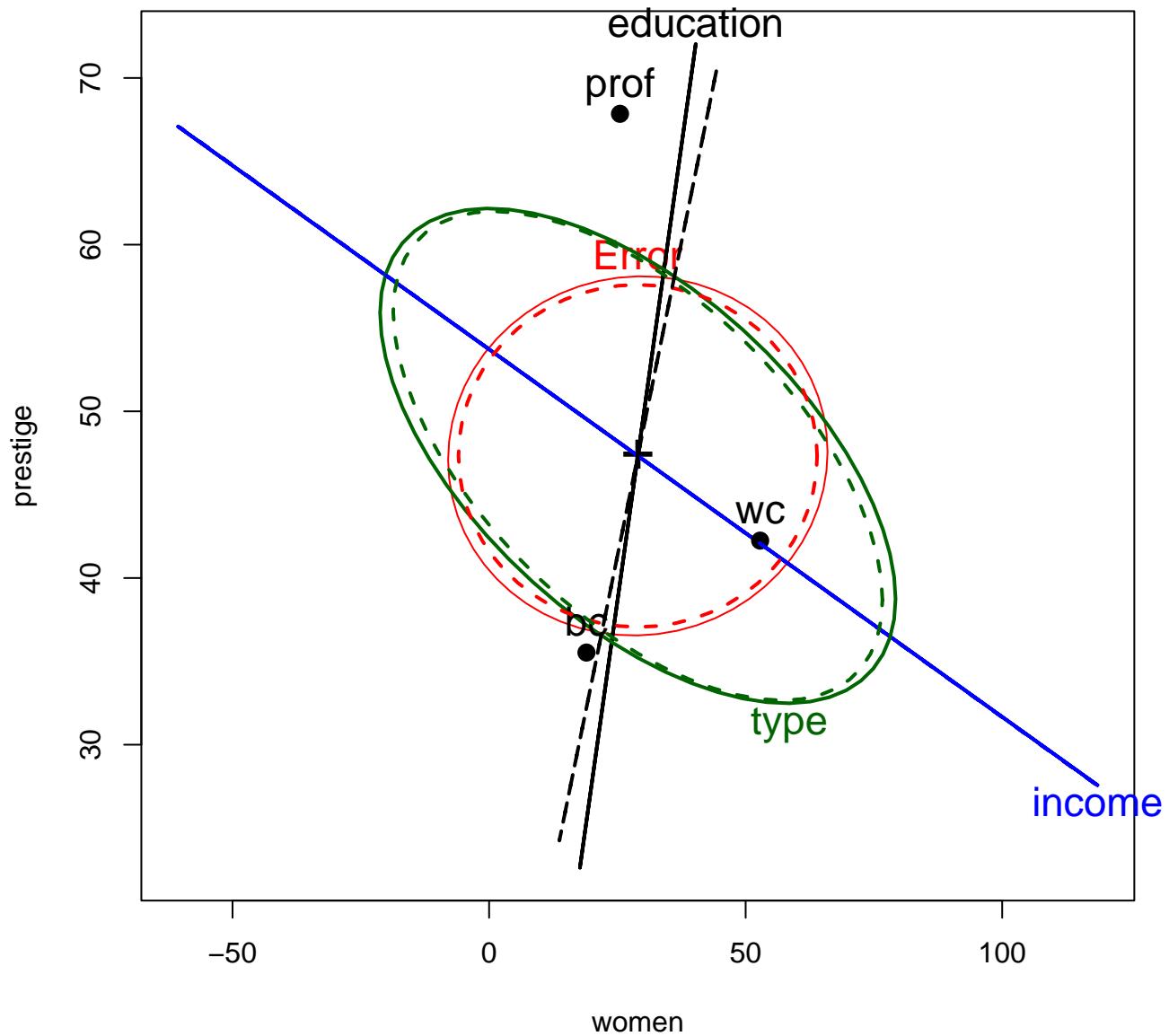
help("robmlm")

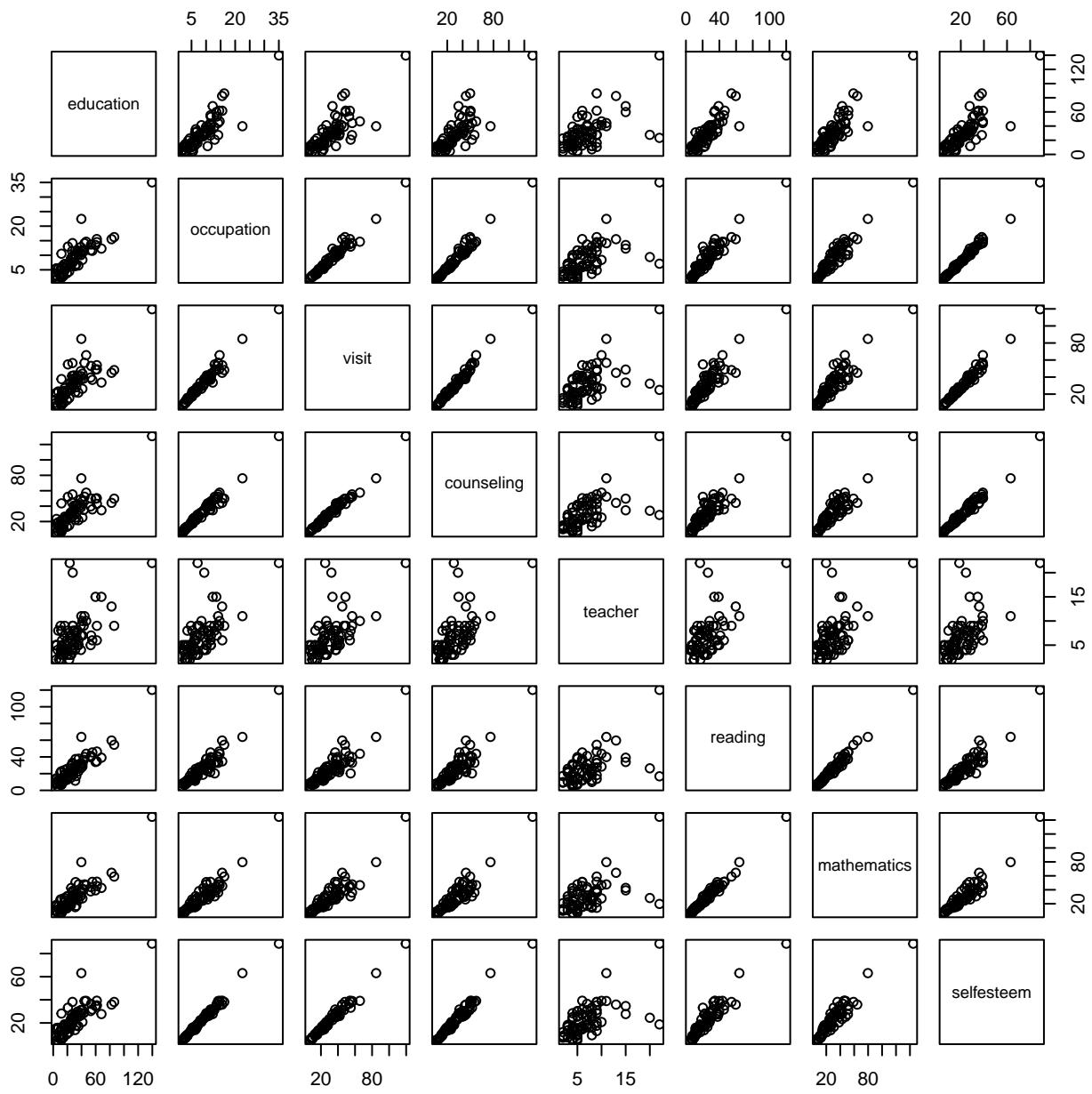
help("robmlm")



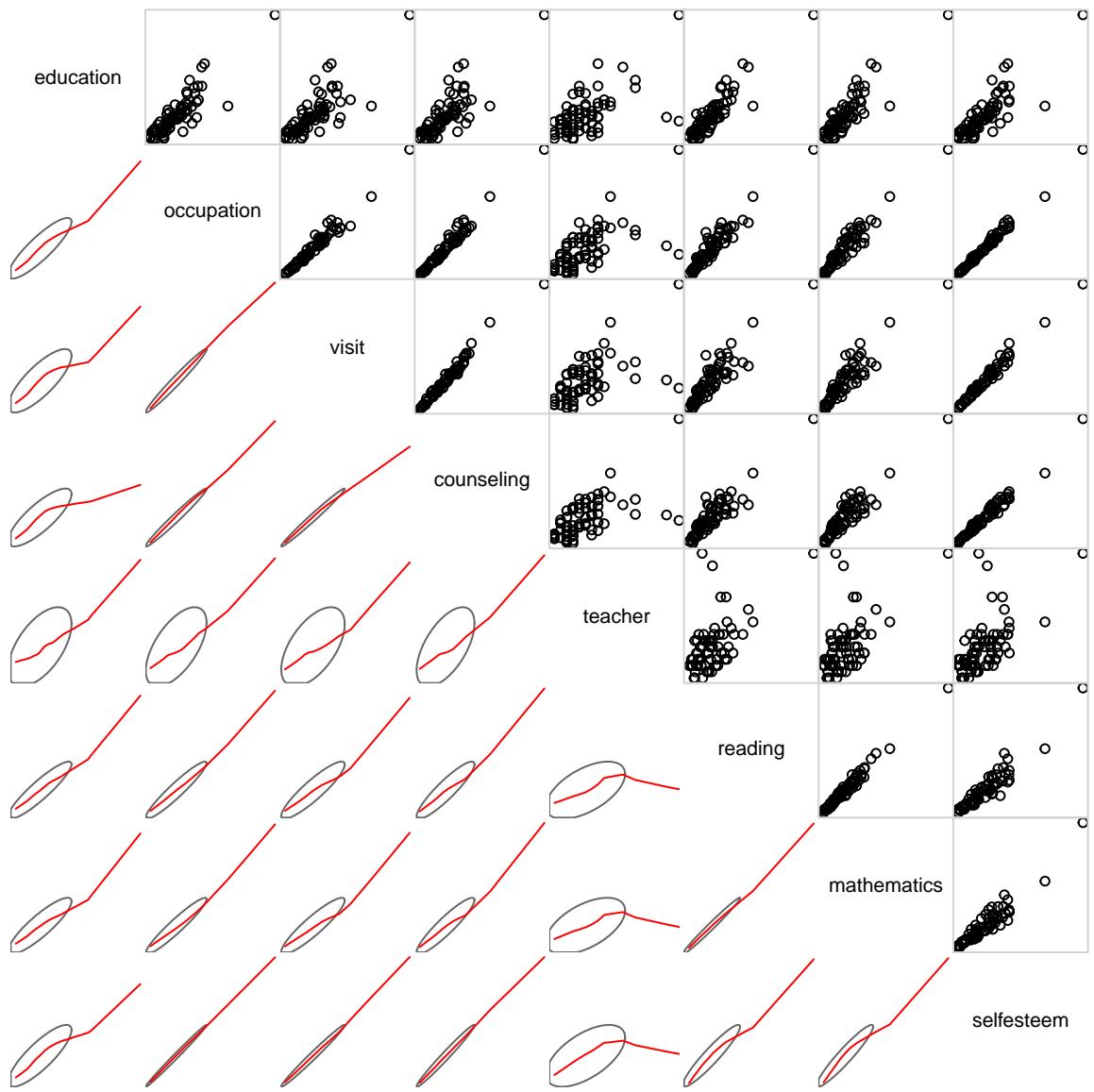


help("robmlm")



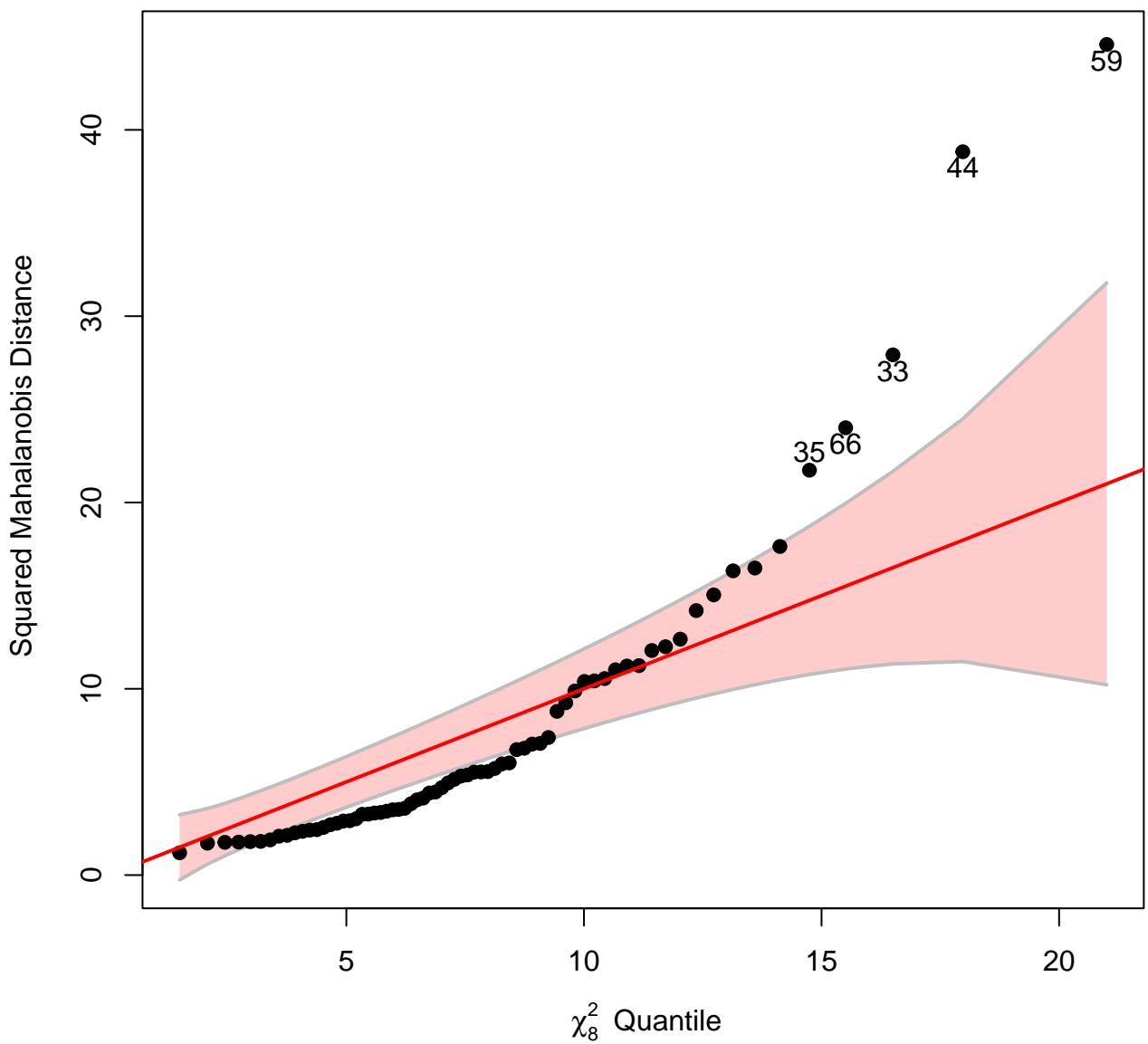


help("schooldata")

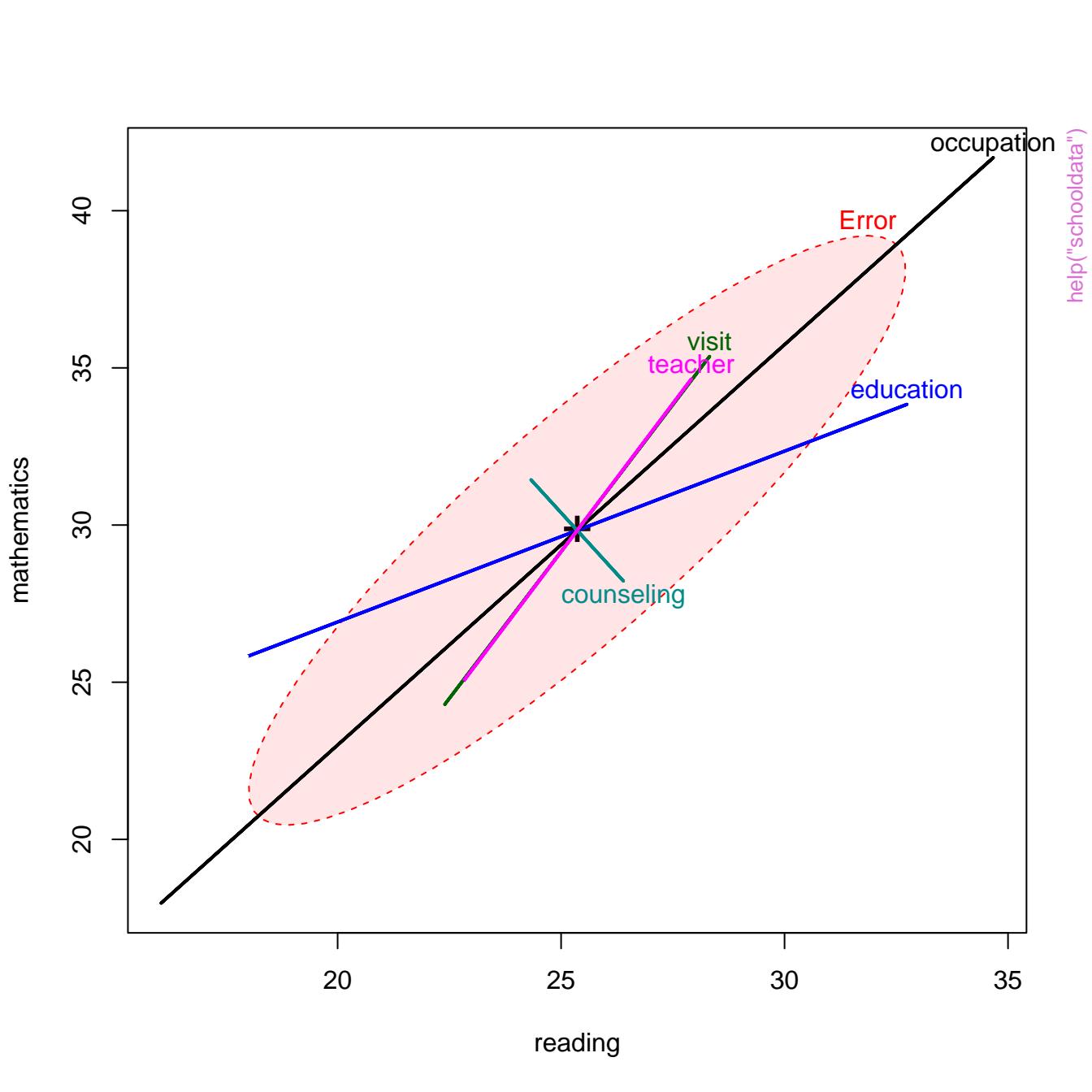


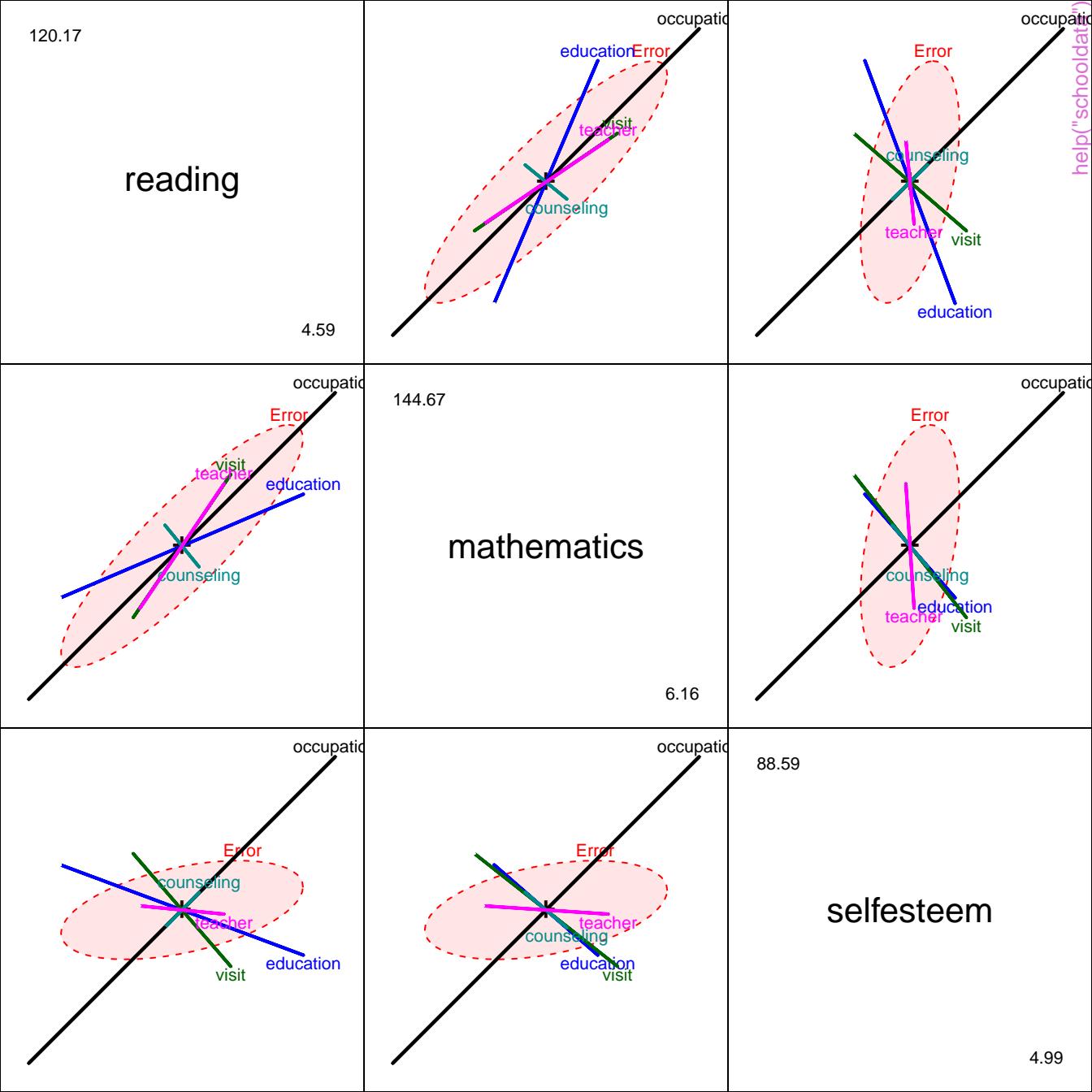
help("schooldata")

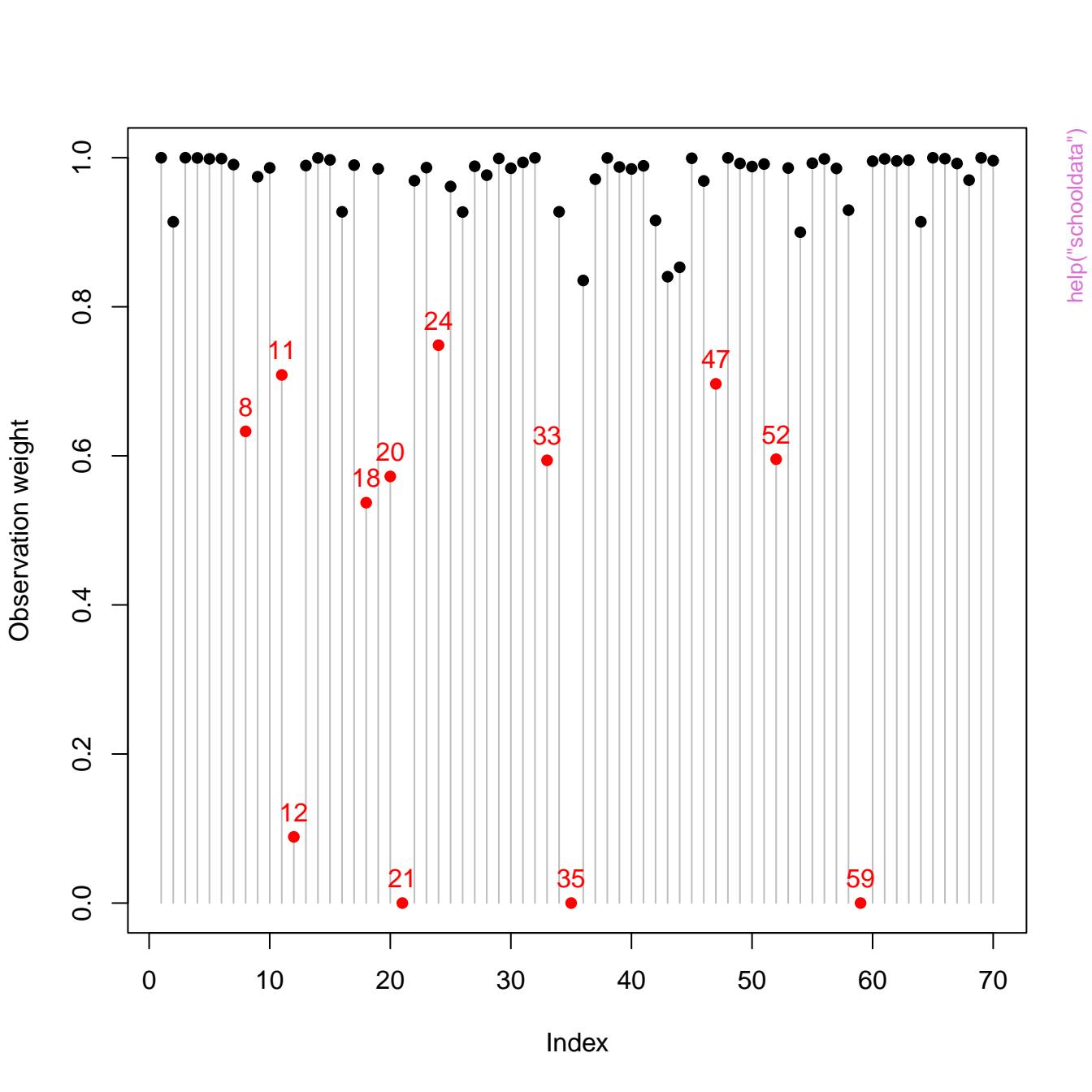
## Chi-Square Q-Q Plot of schooldata

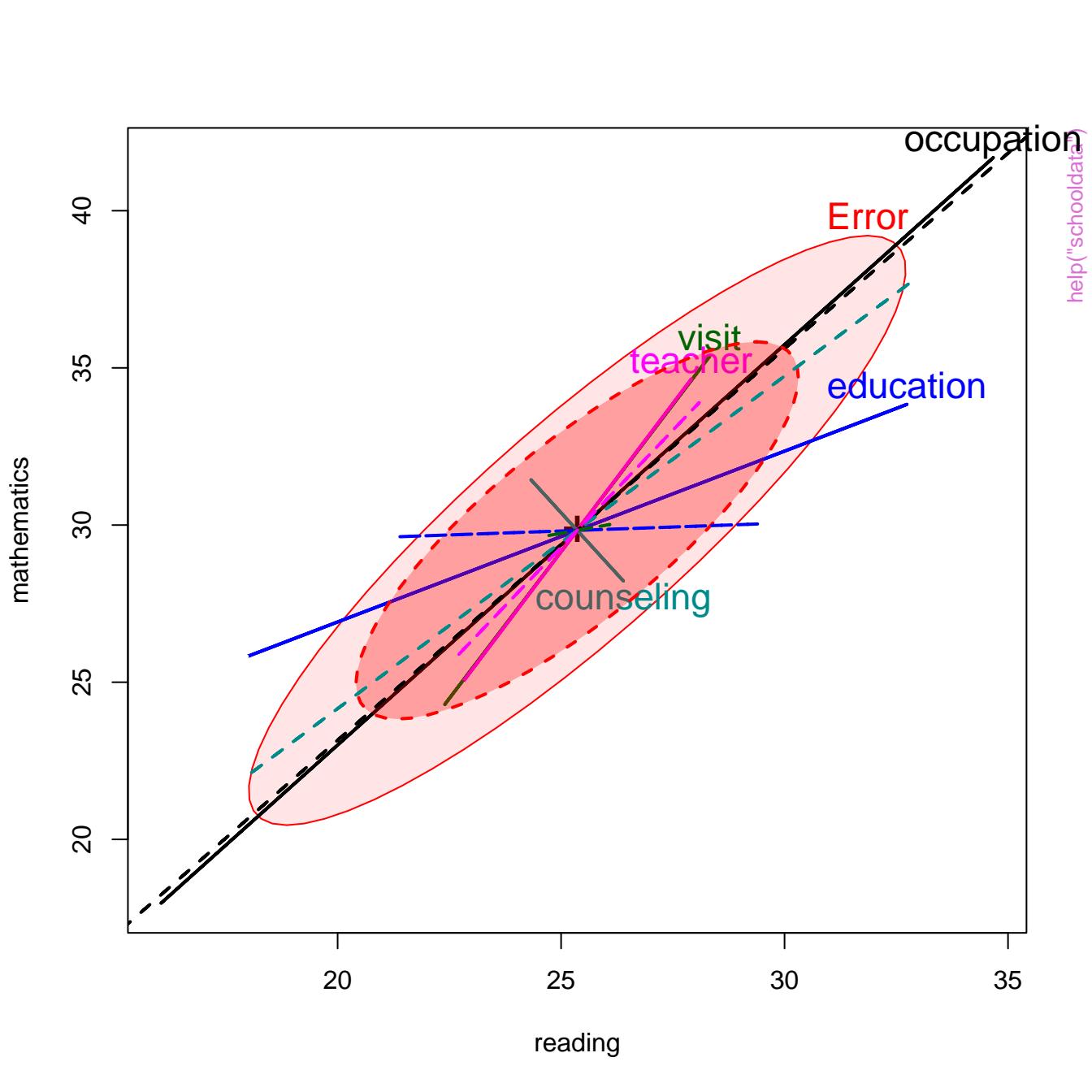


help("schooldata")









help("termMeans")

