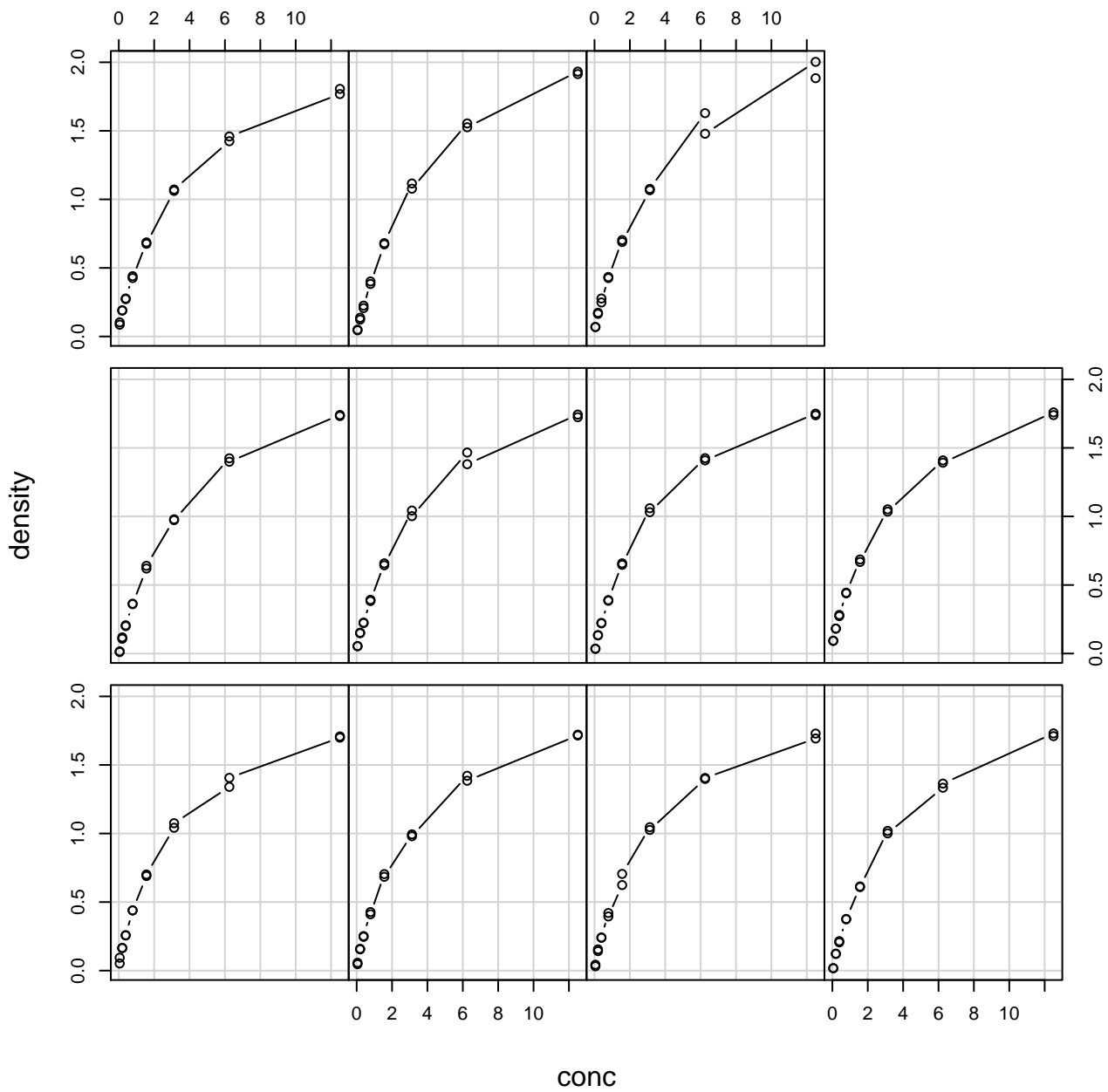
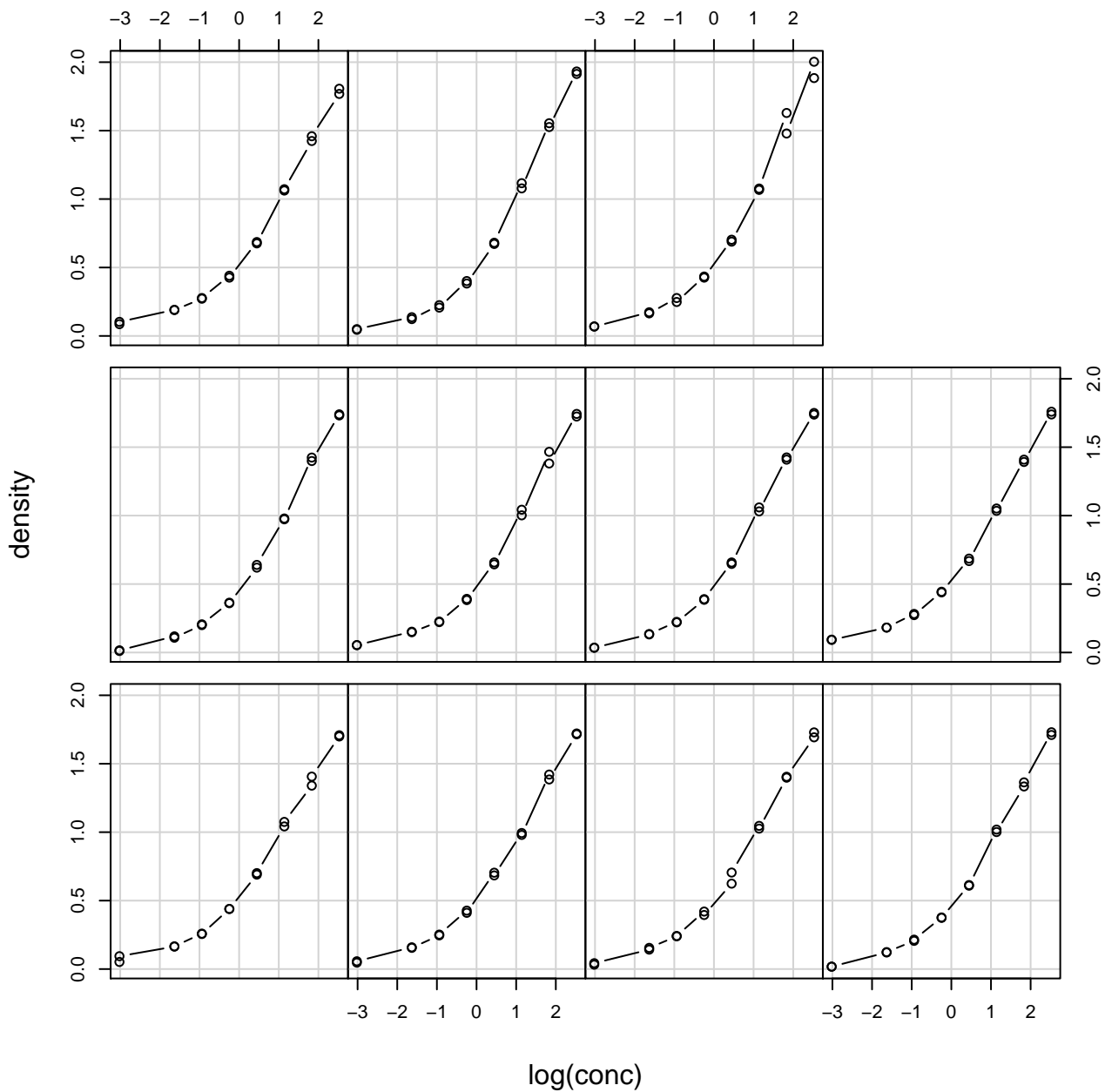


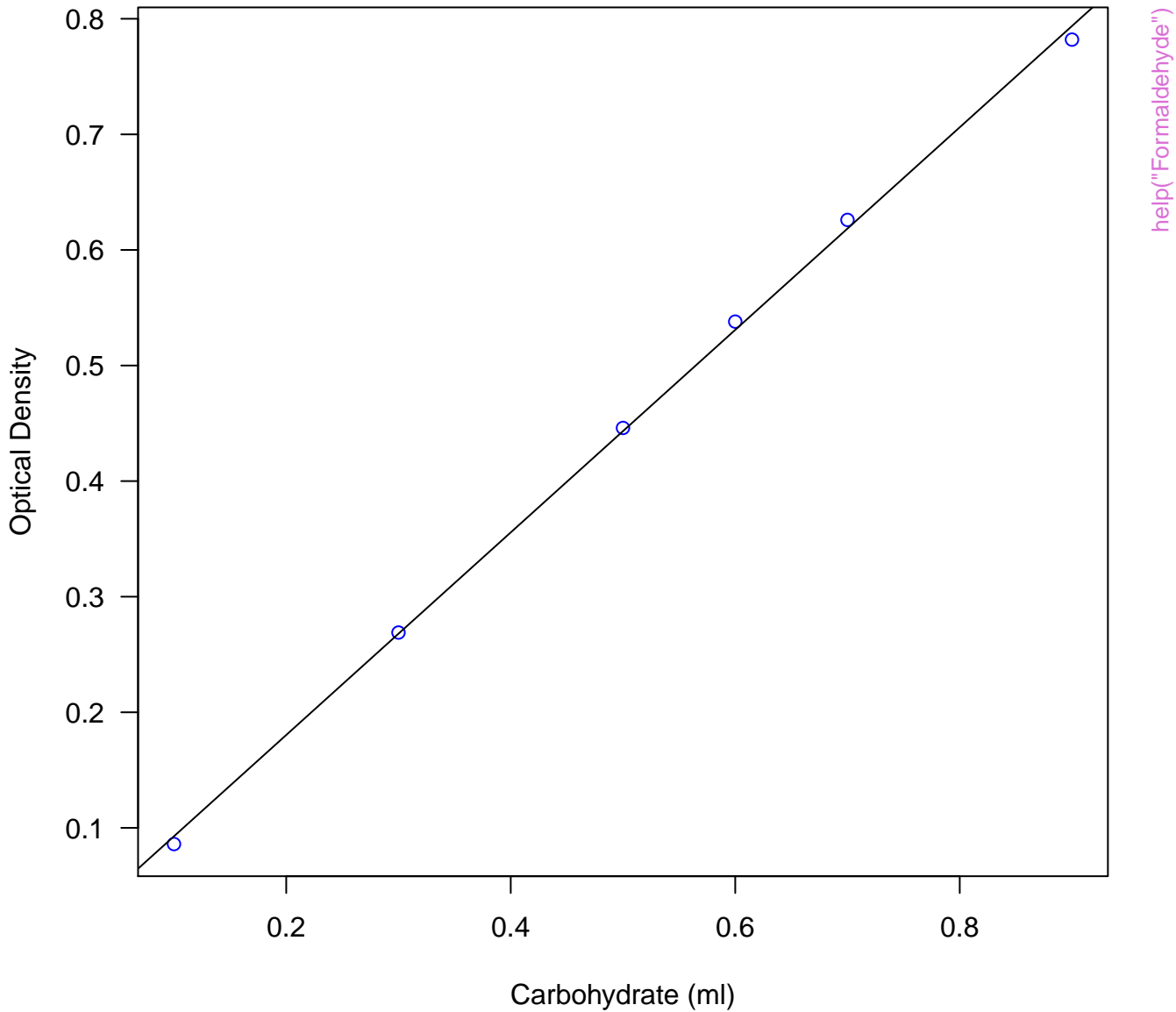
Given : Run



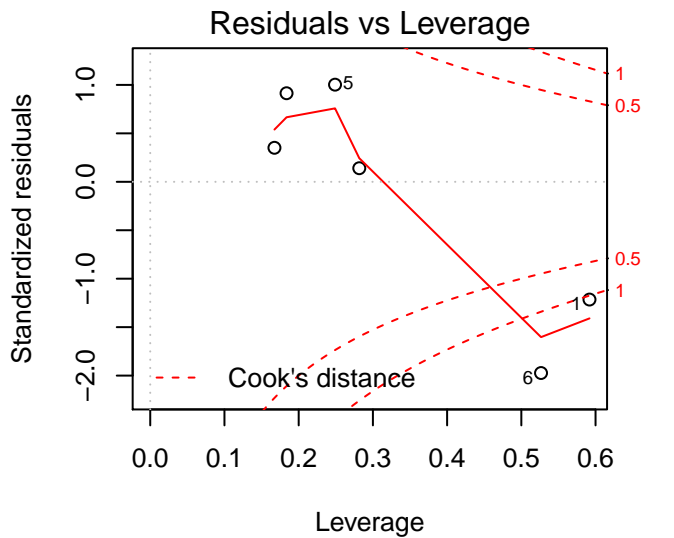
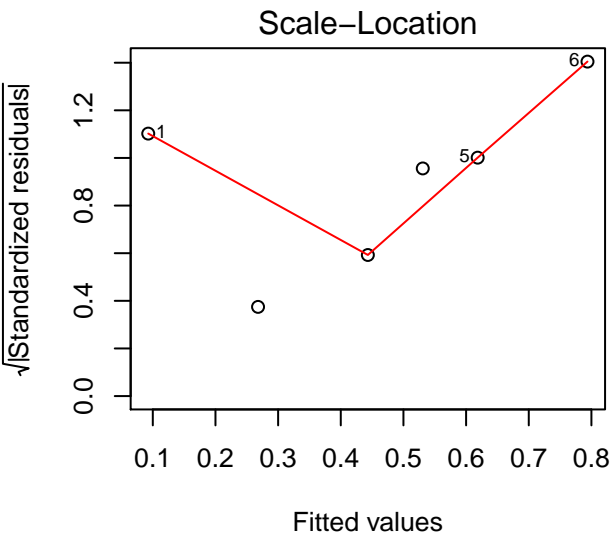
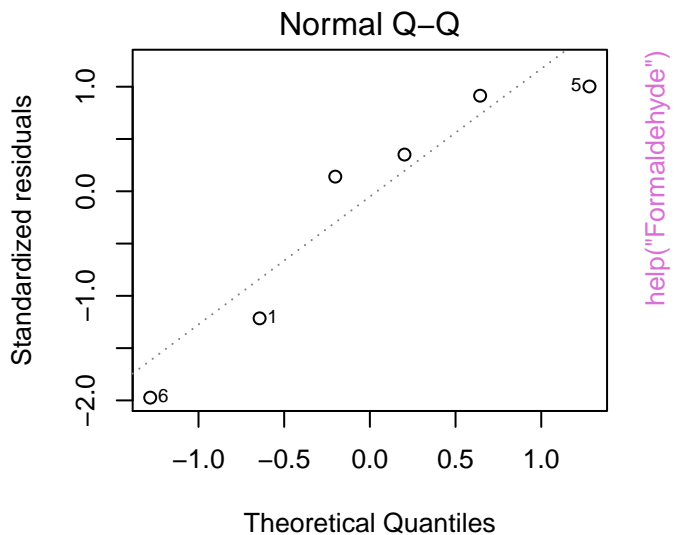
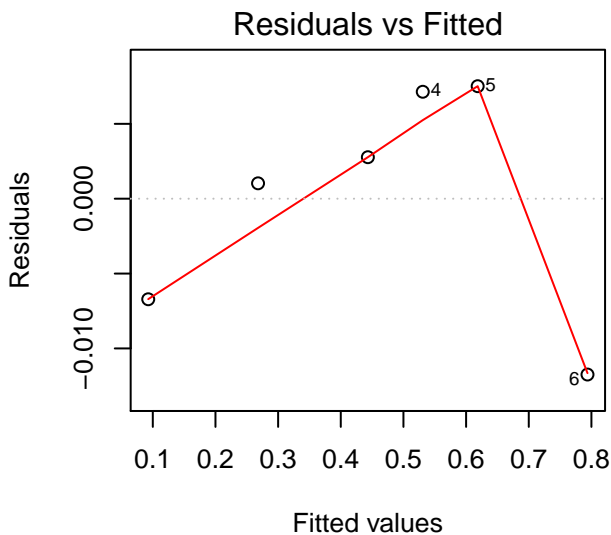
Given : Run



## Formaldehyde data

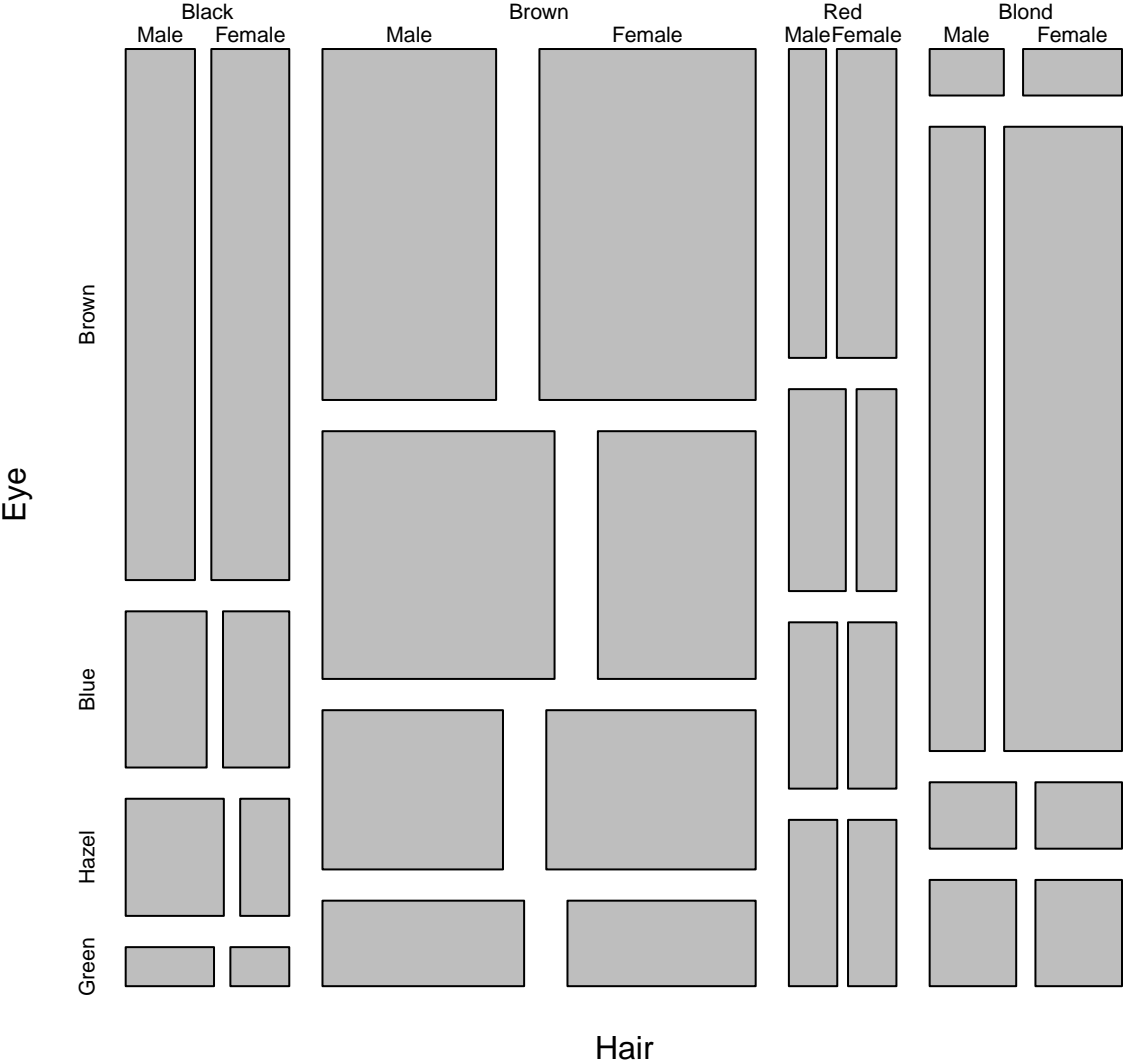


$$\text{lm}(\text{optden} \sim \text{carb})$$



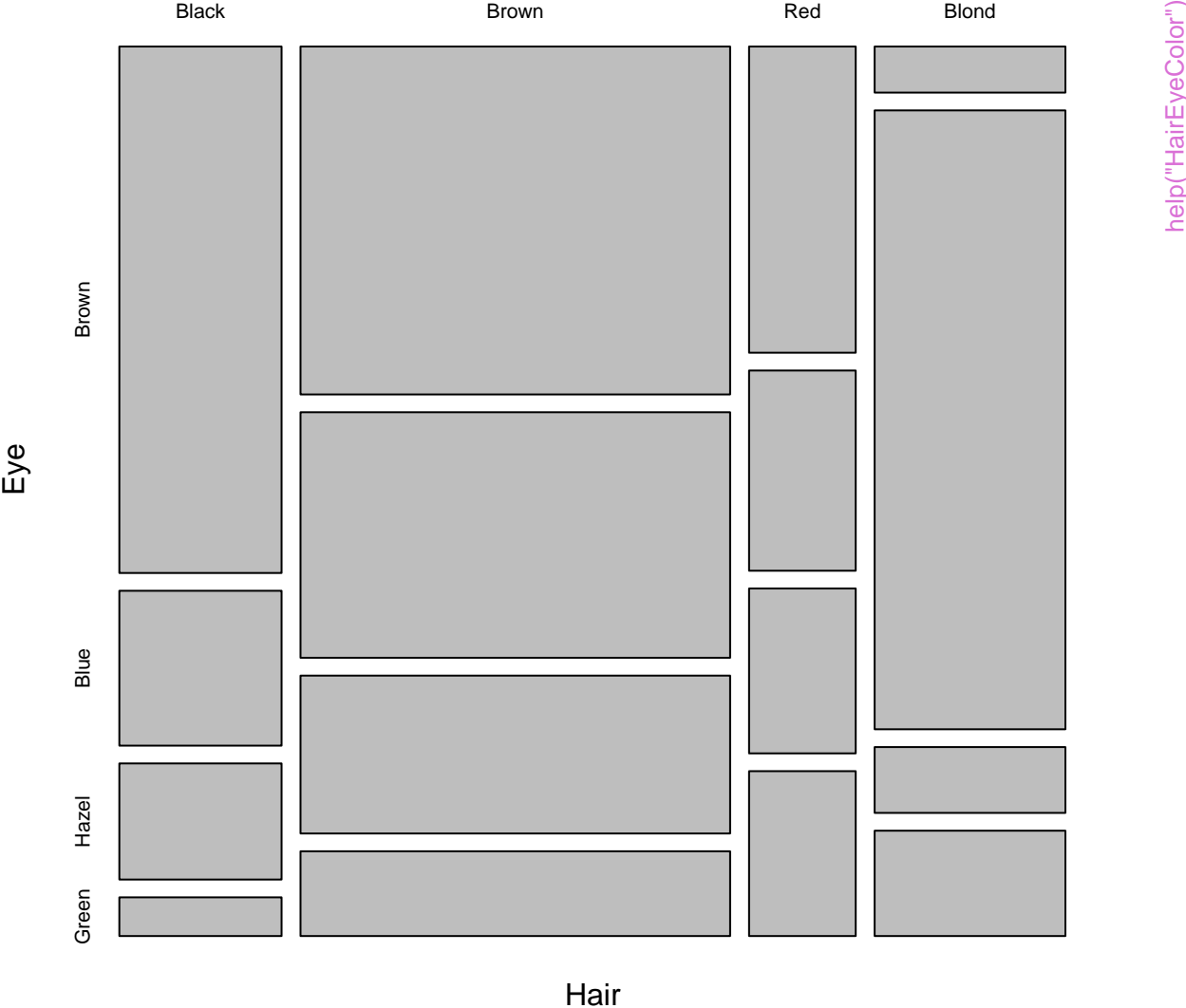
help("Formaldehyde")

# HairEyeColor

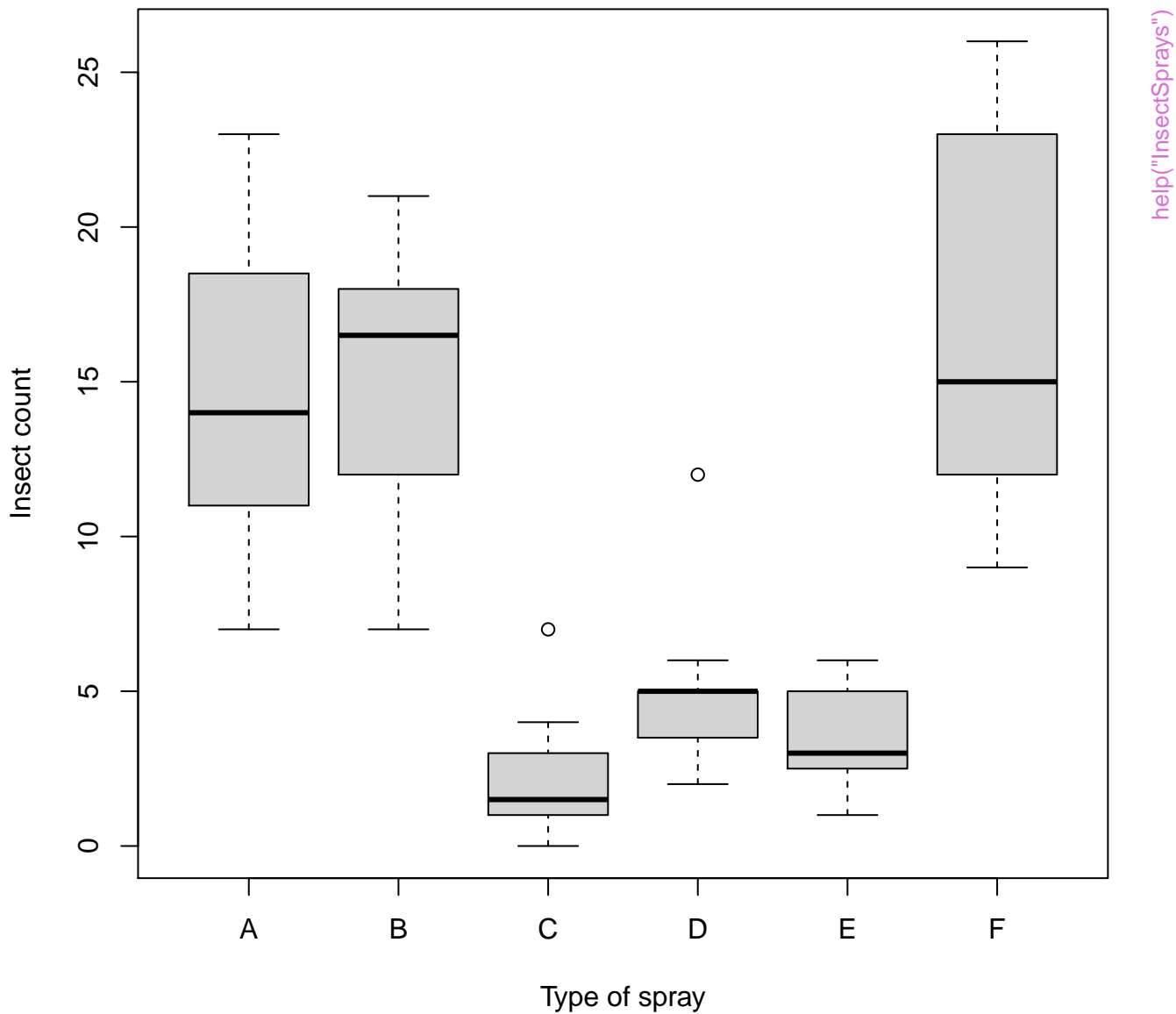


help("HairEyeColor")

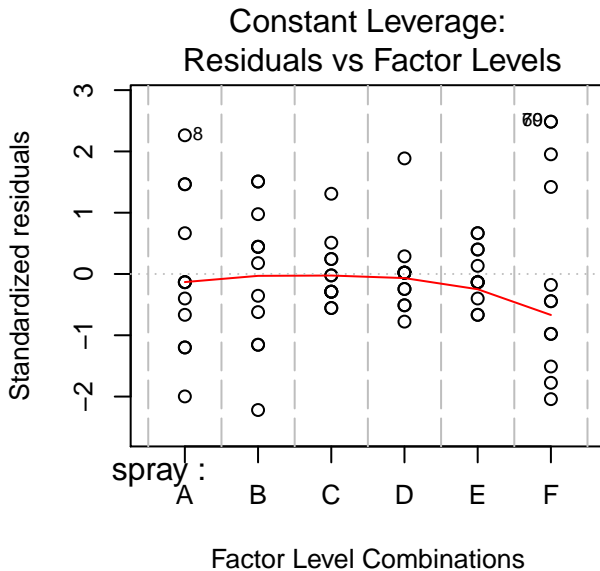
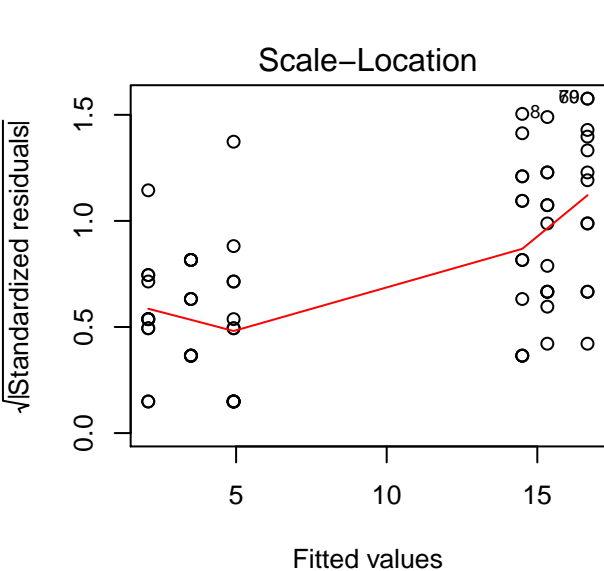
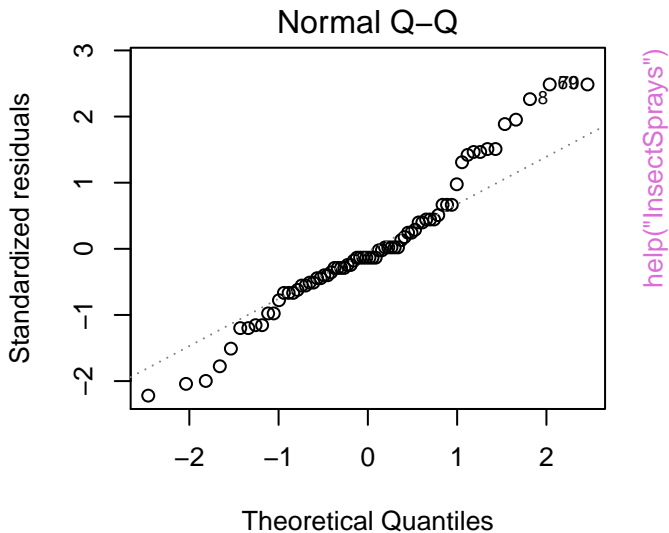
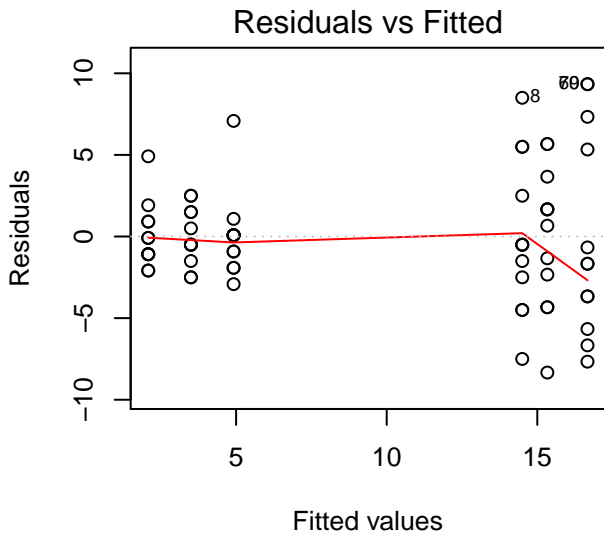
Relation between hair and eye color



## InsectSprays data

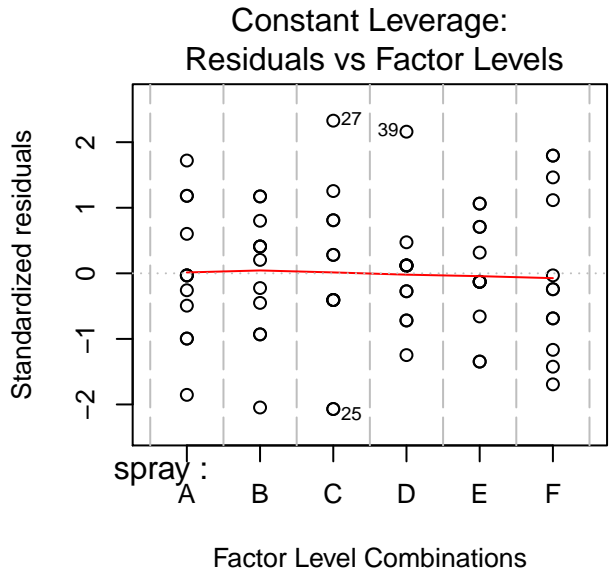
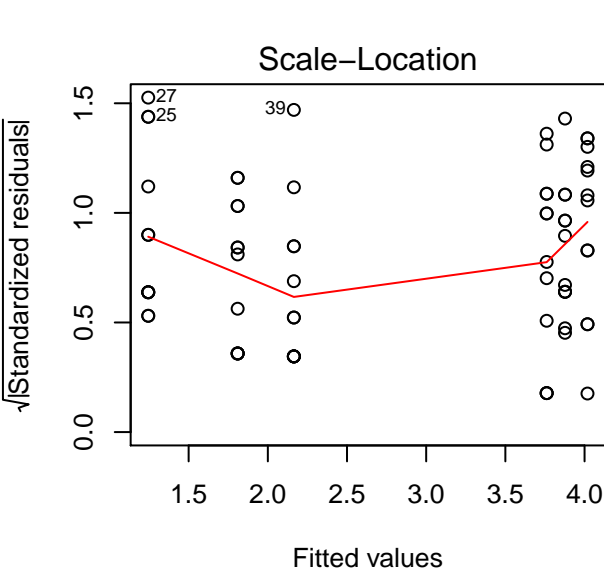
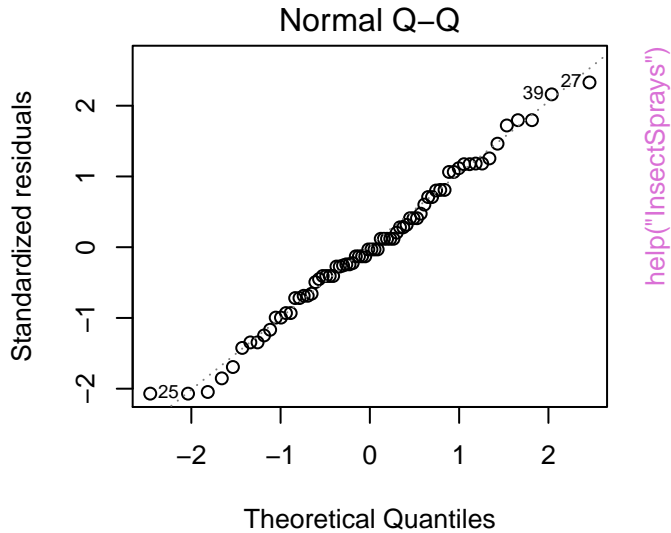
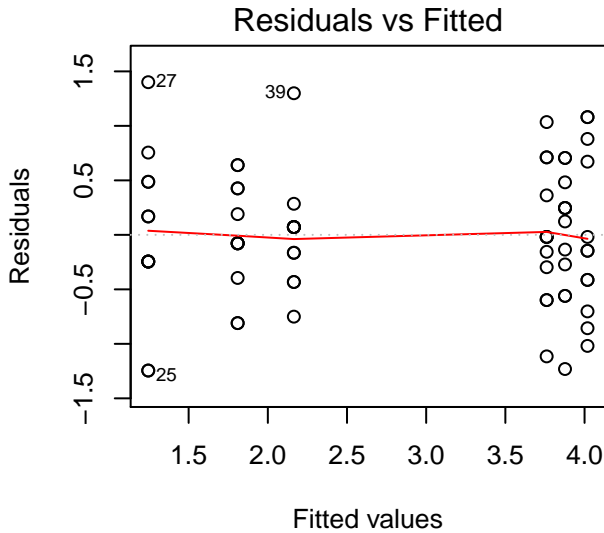


aov(count ~ spray)

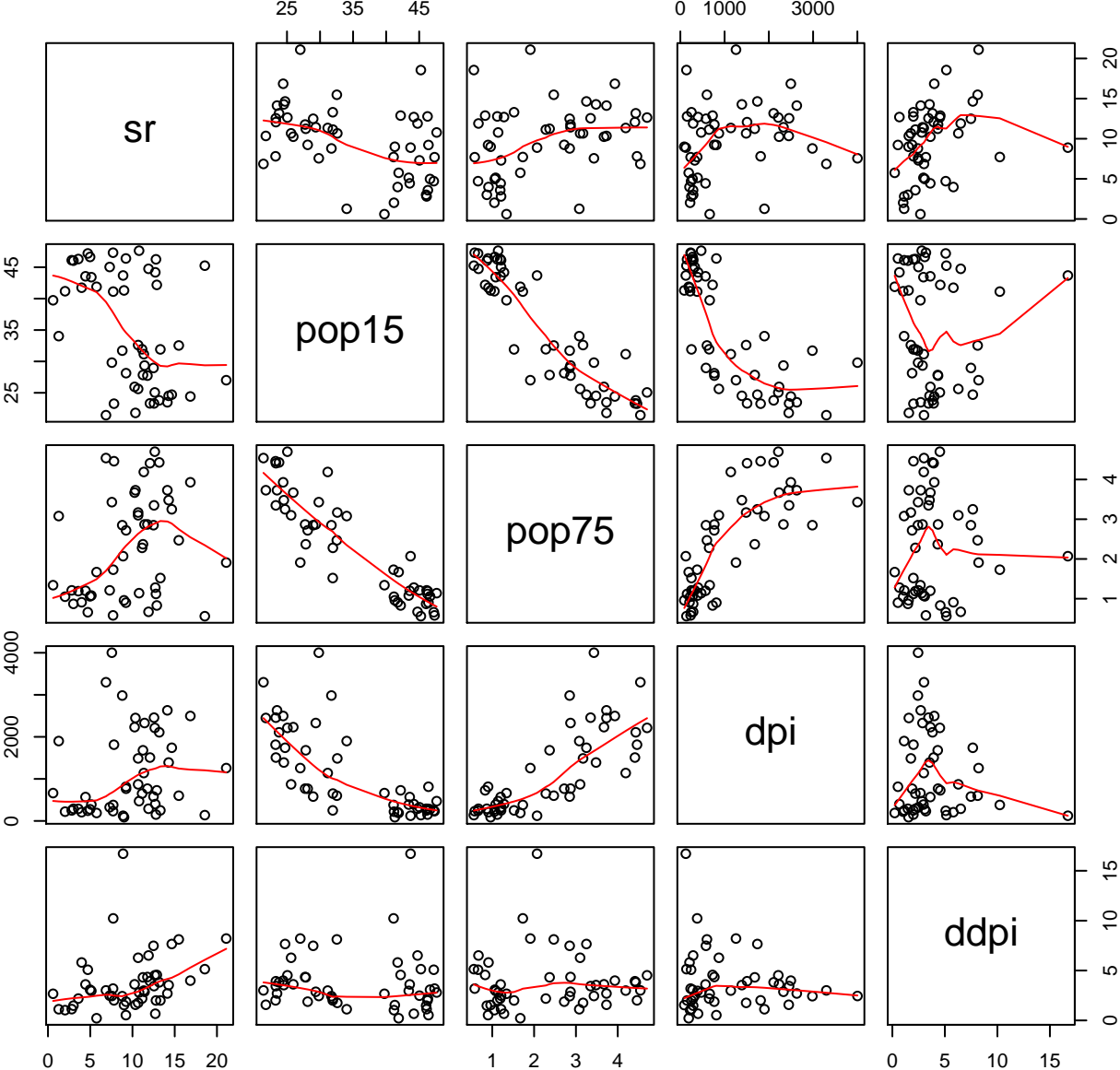




aov(sqrt(count) ~ spray)

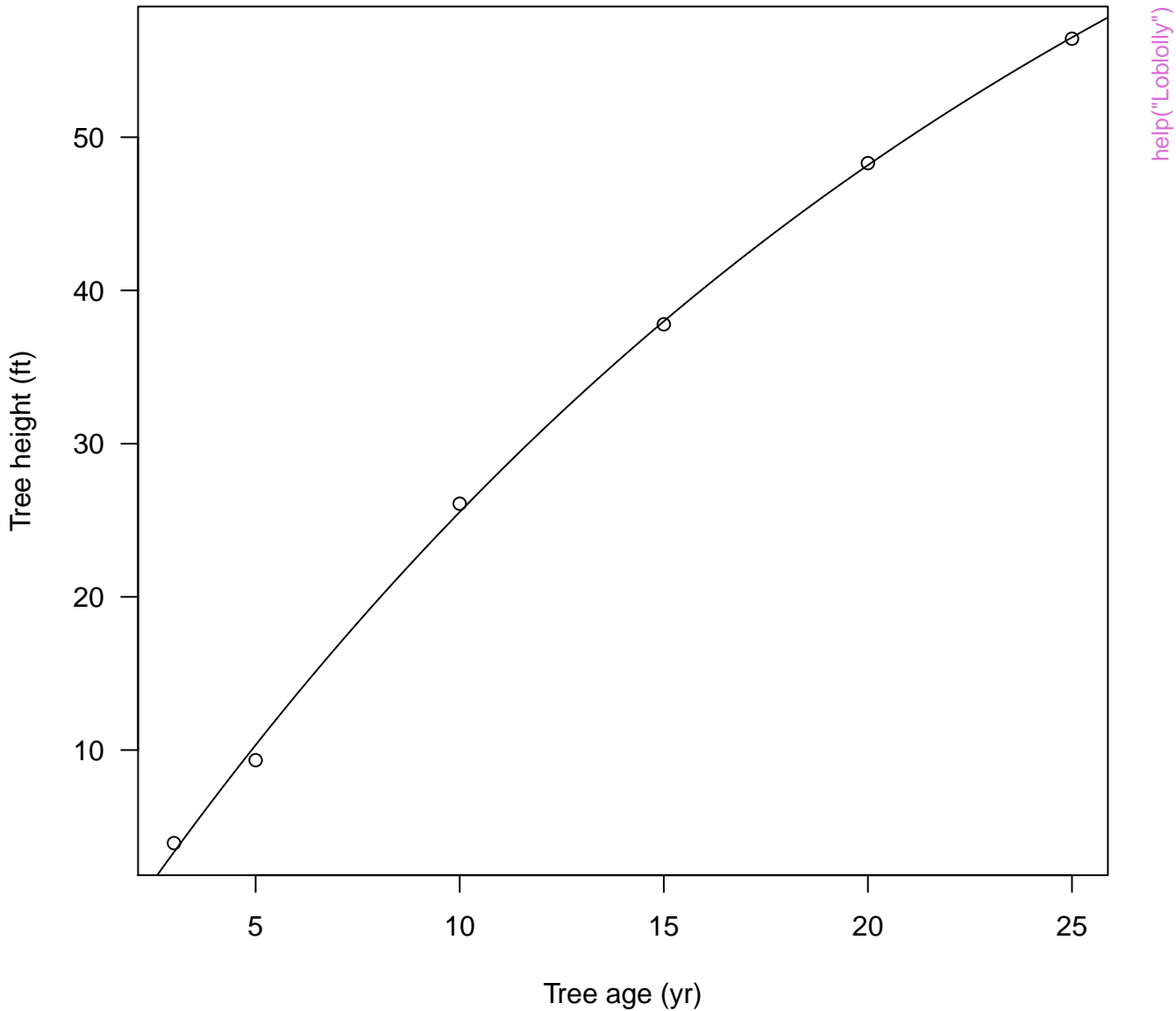


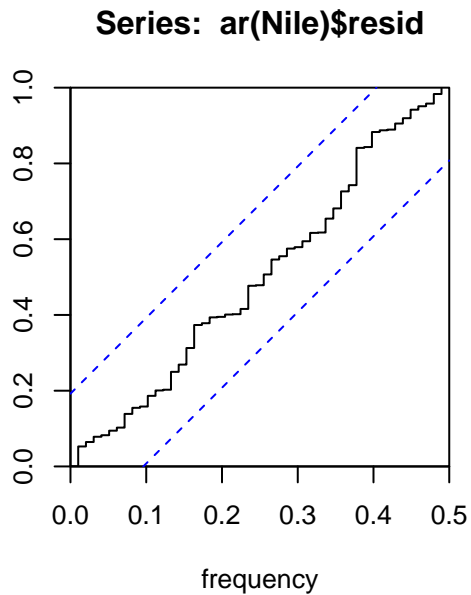
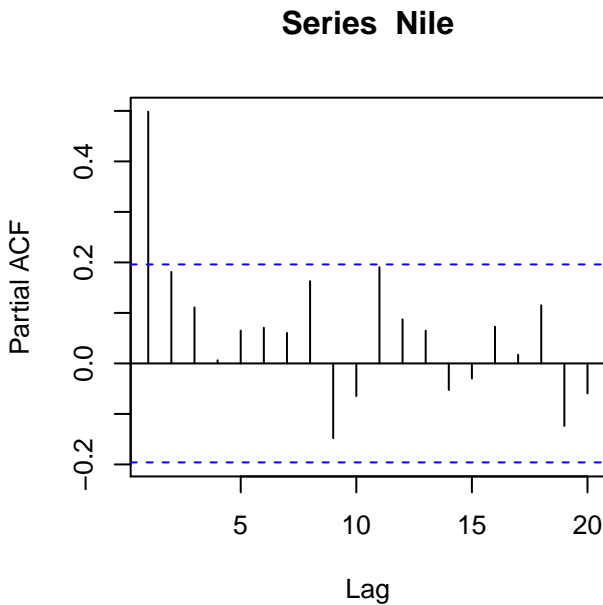
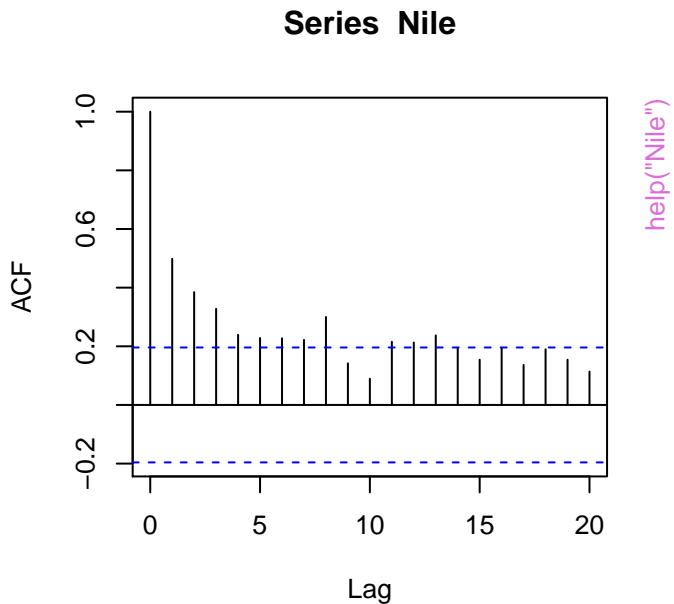
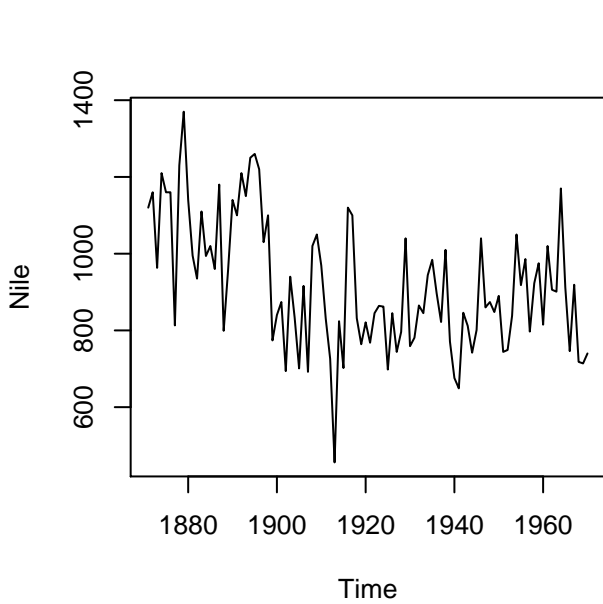
LifeCycleSavings data

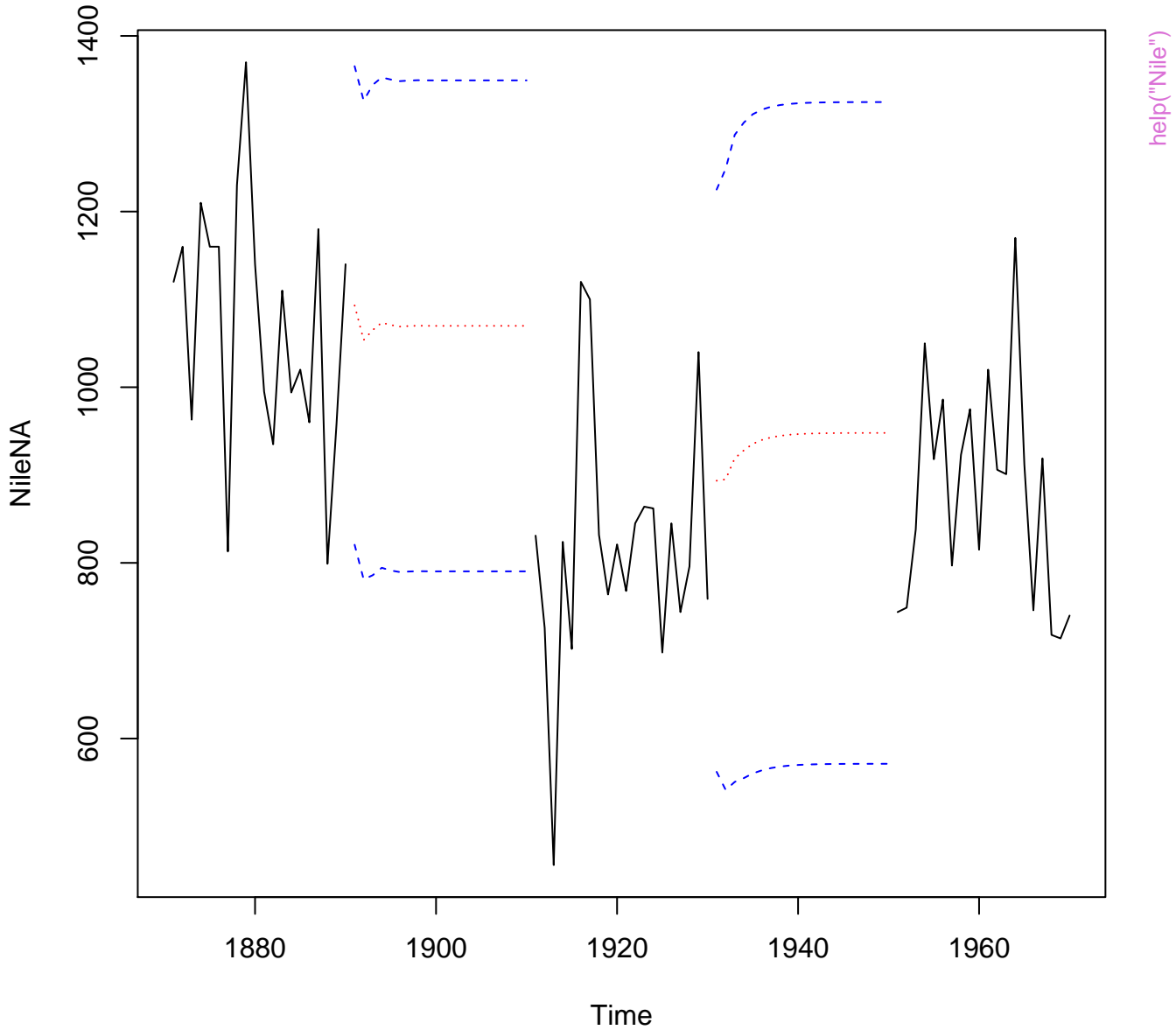


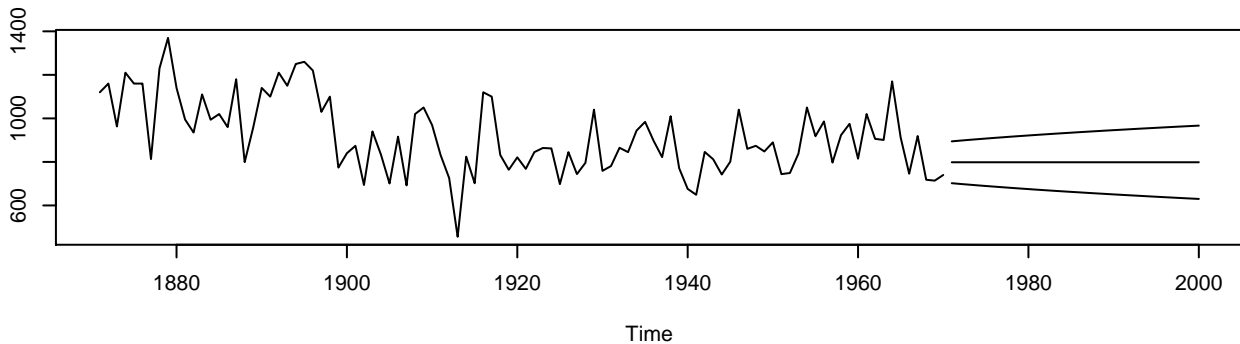
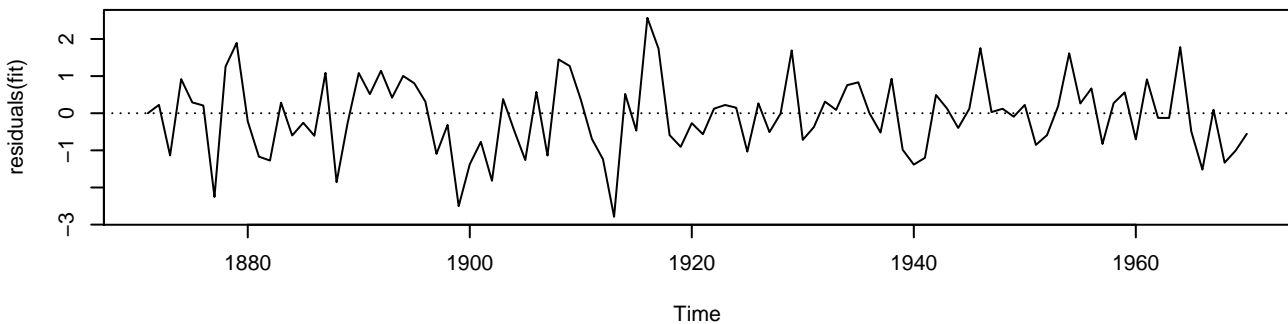
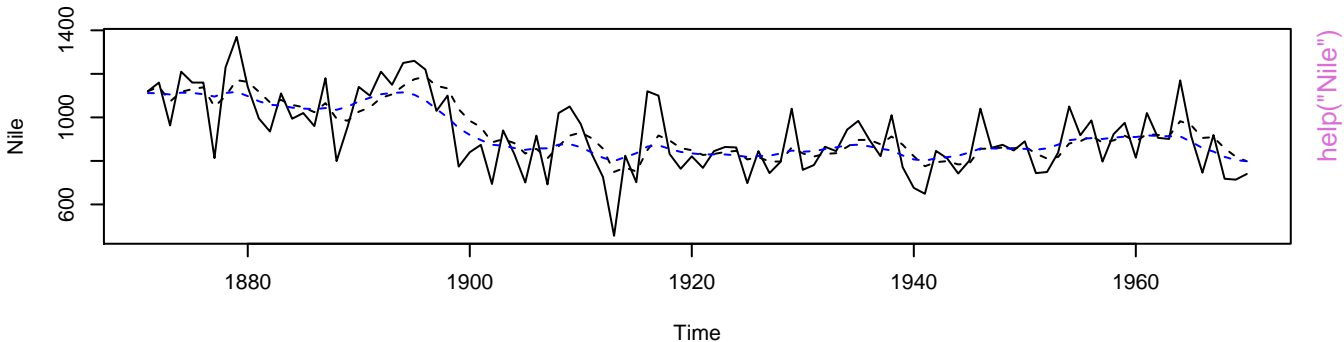
help("LifeCycleSavings")

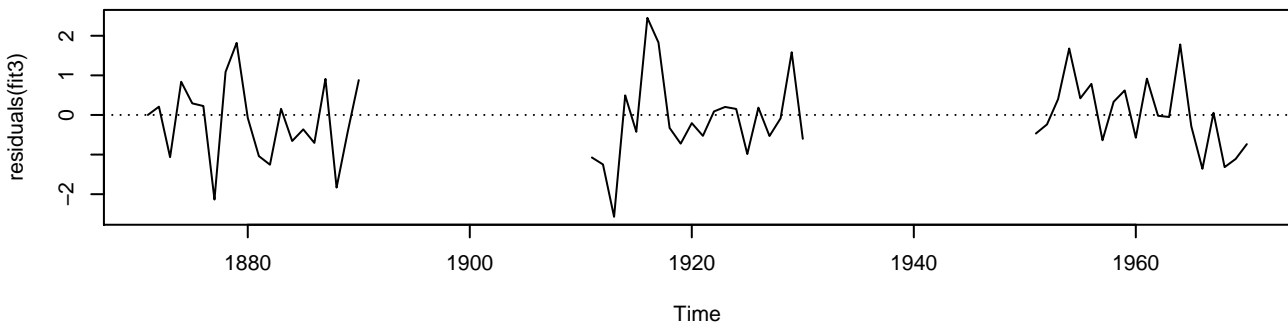
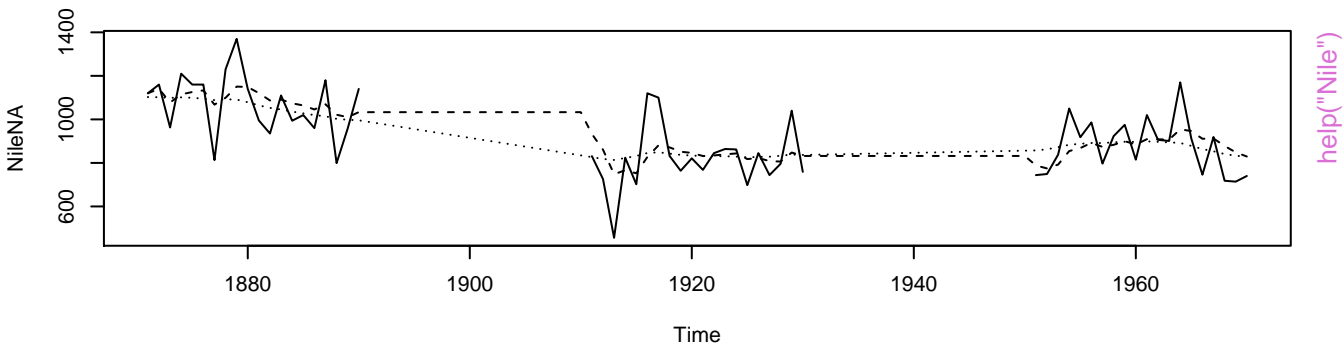
**Loblolly data and fitted curve (Seed 329 only)**



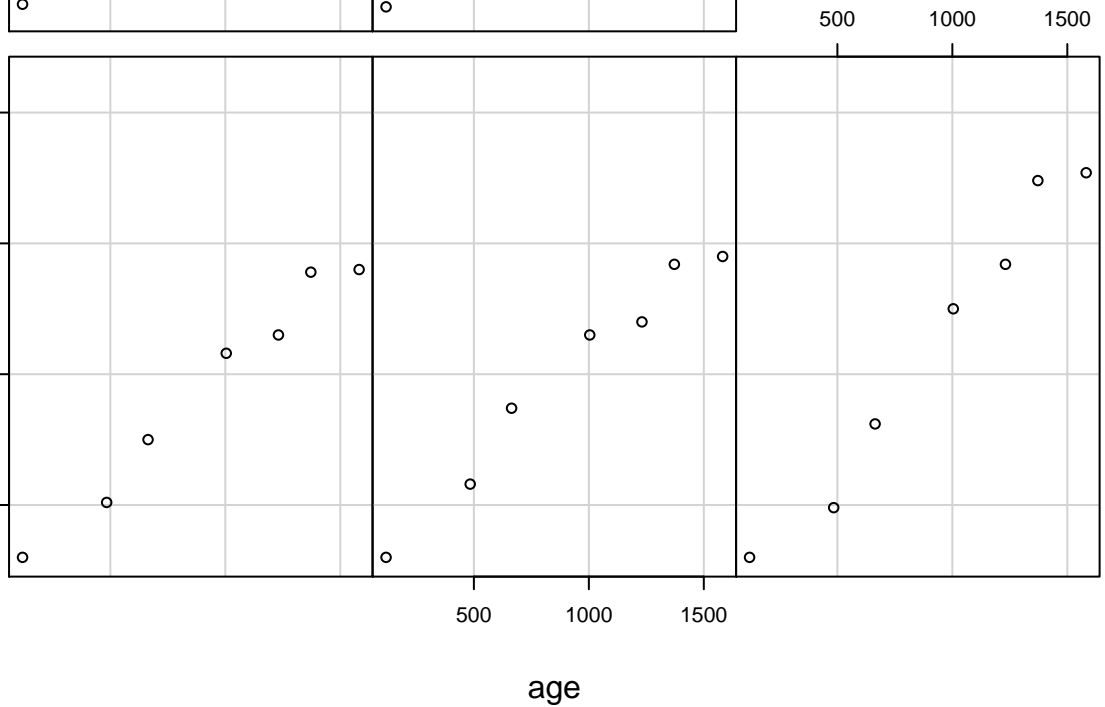
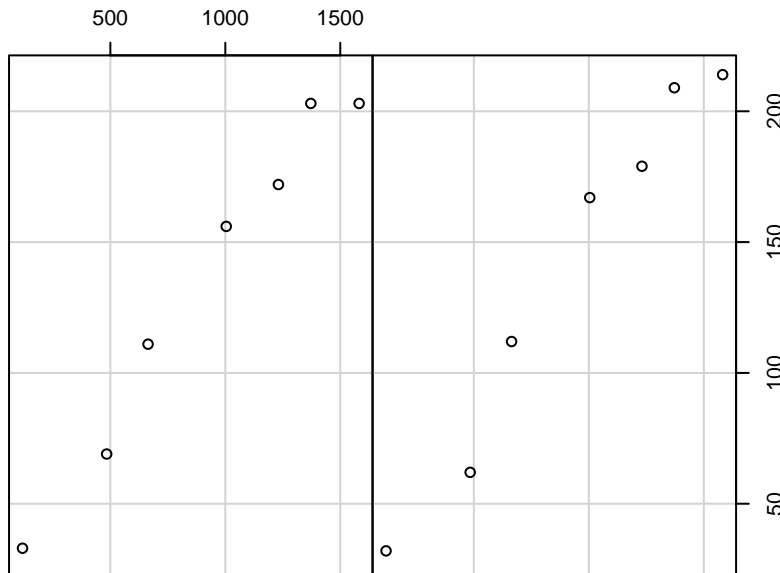






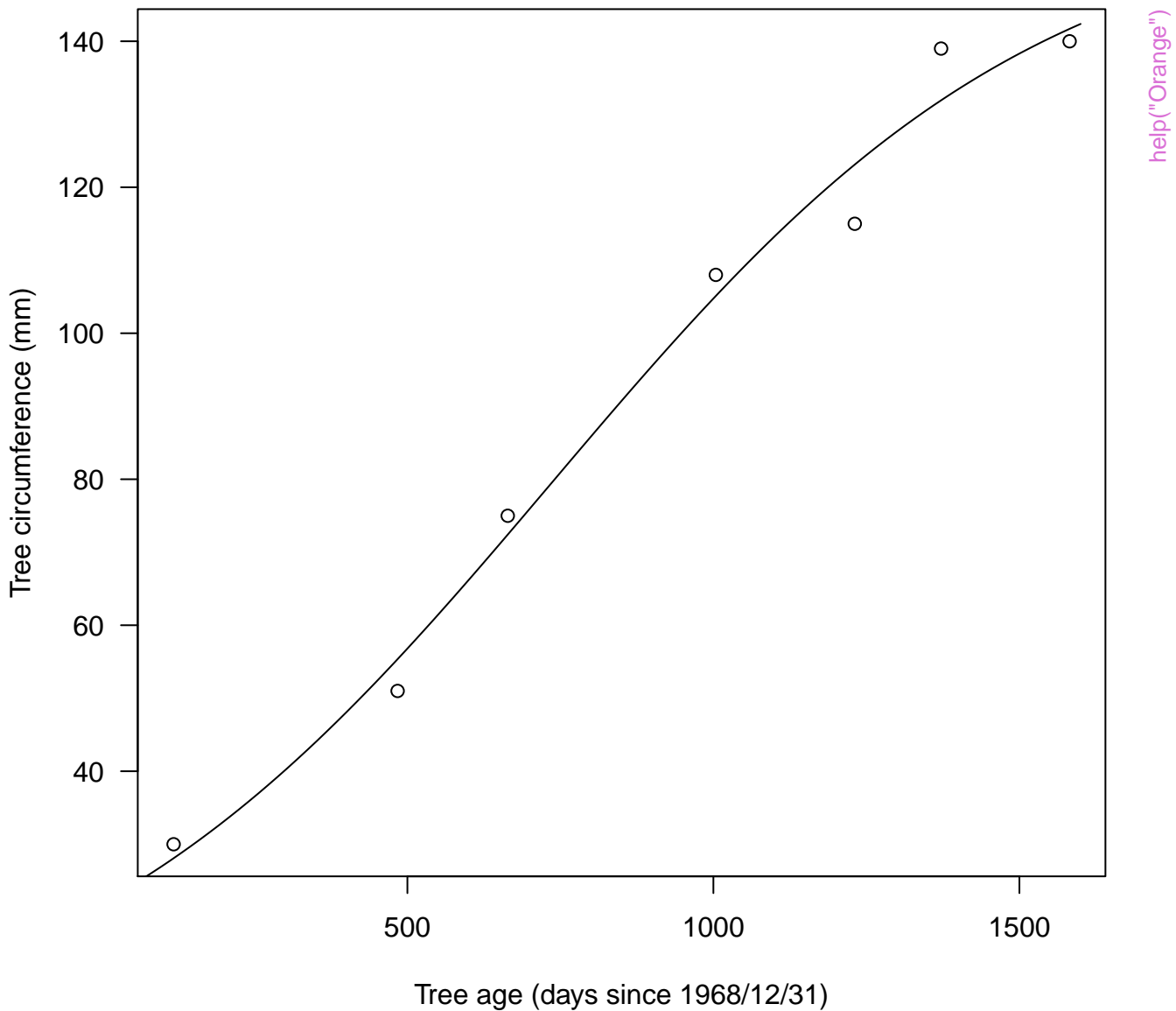


Given : Tree

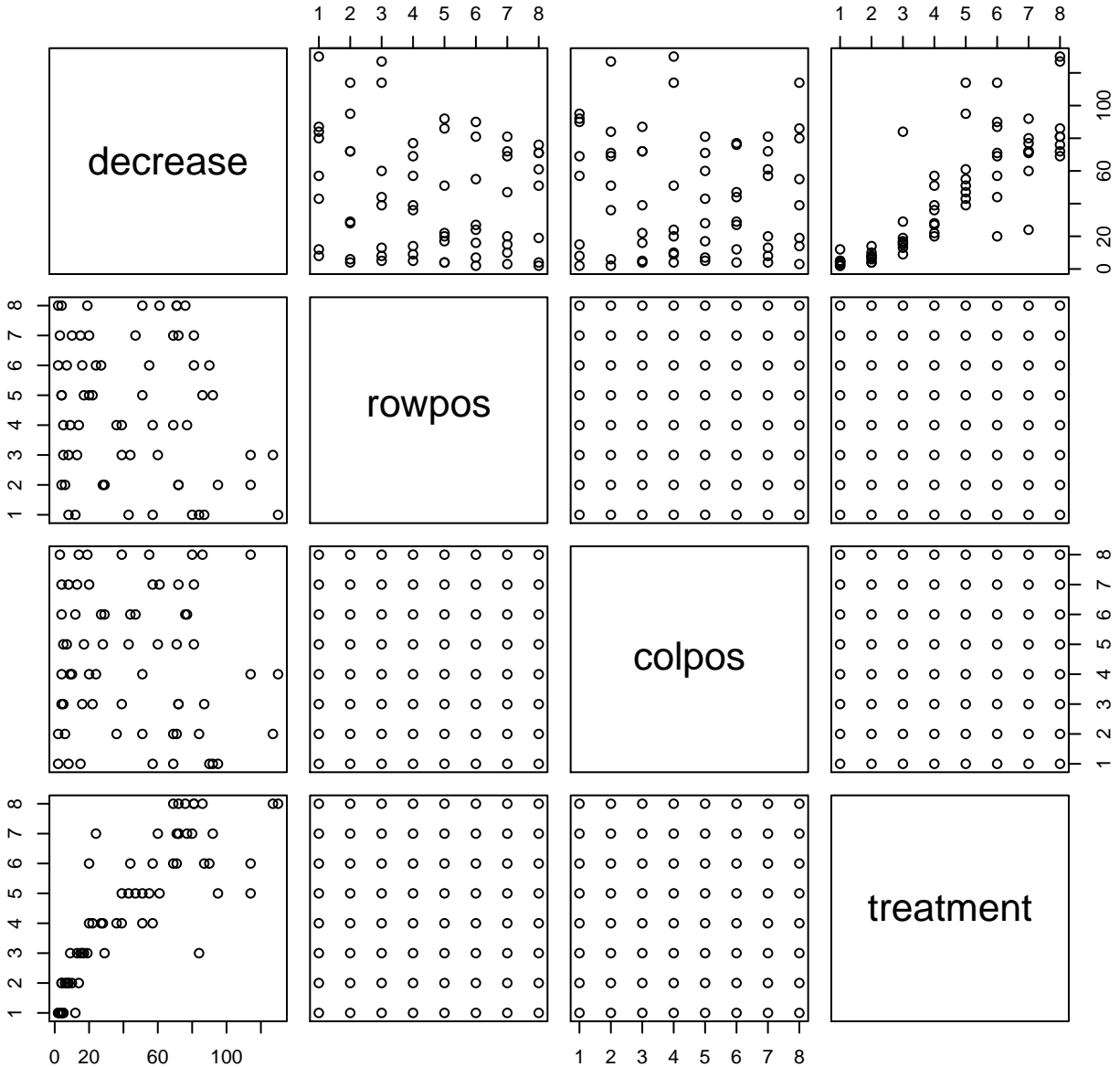




**Orange tree data and fitted model (Tree 3 only)**

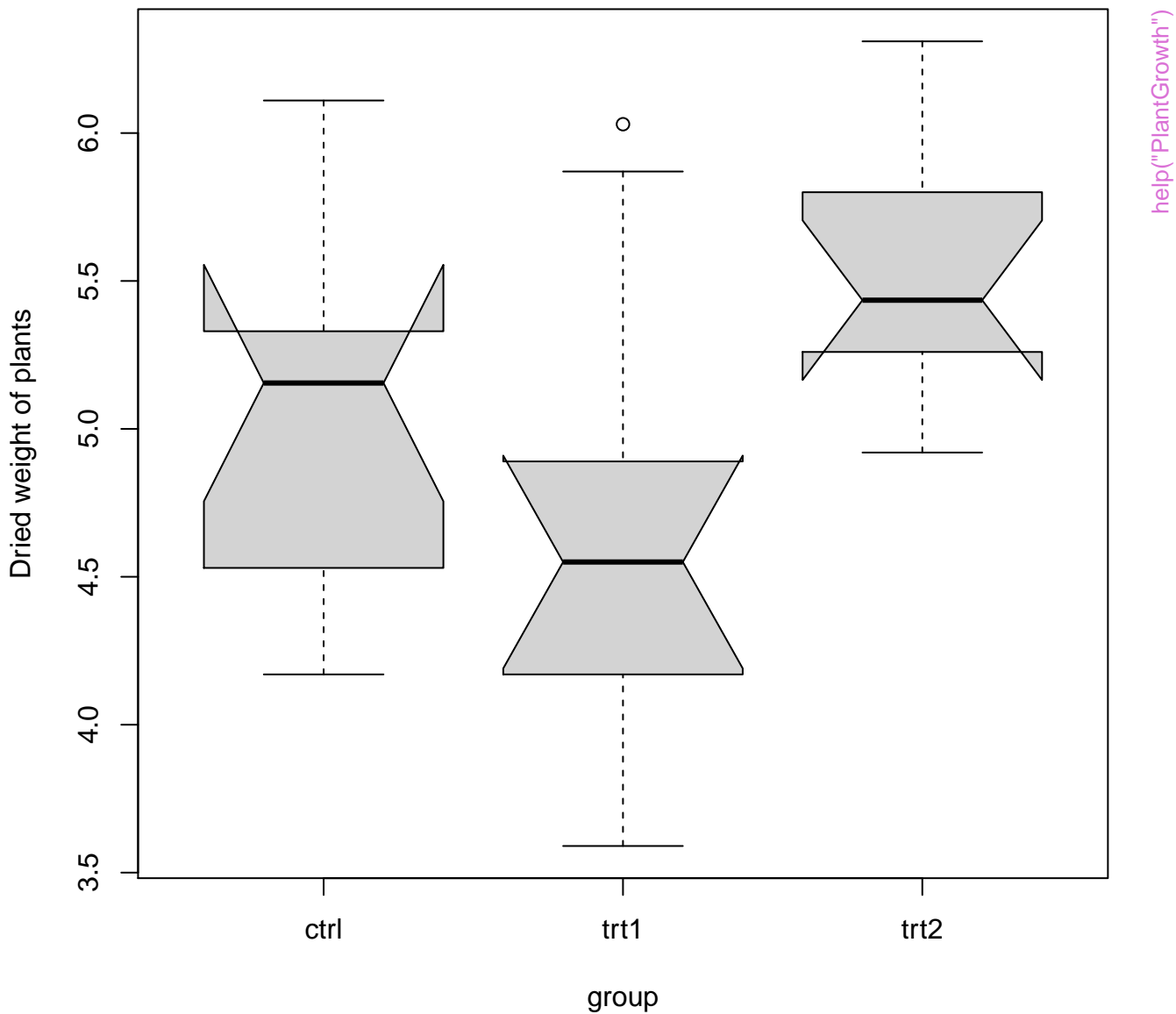


# OrchardSprays data

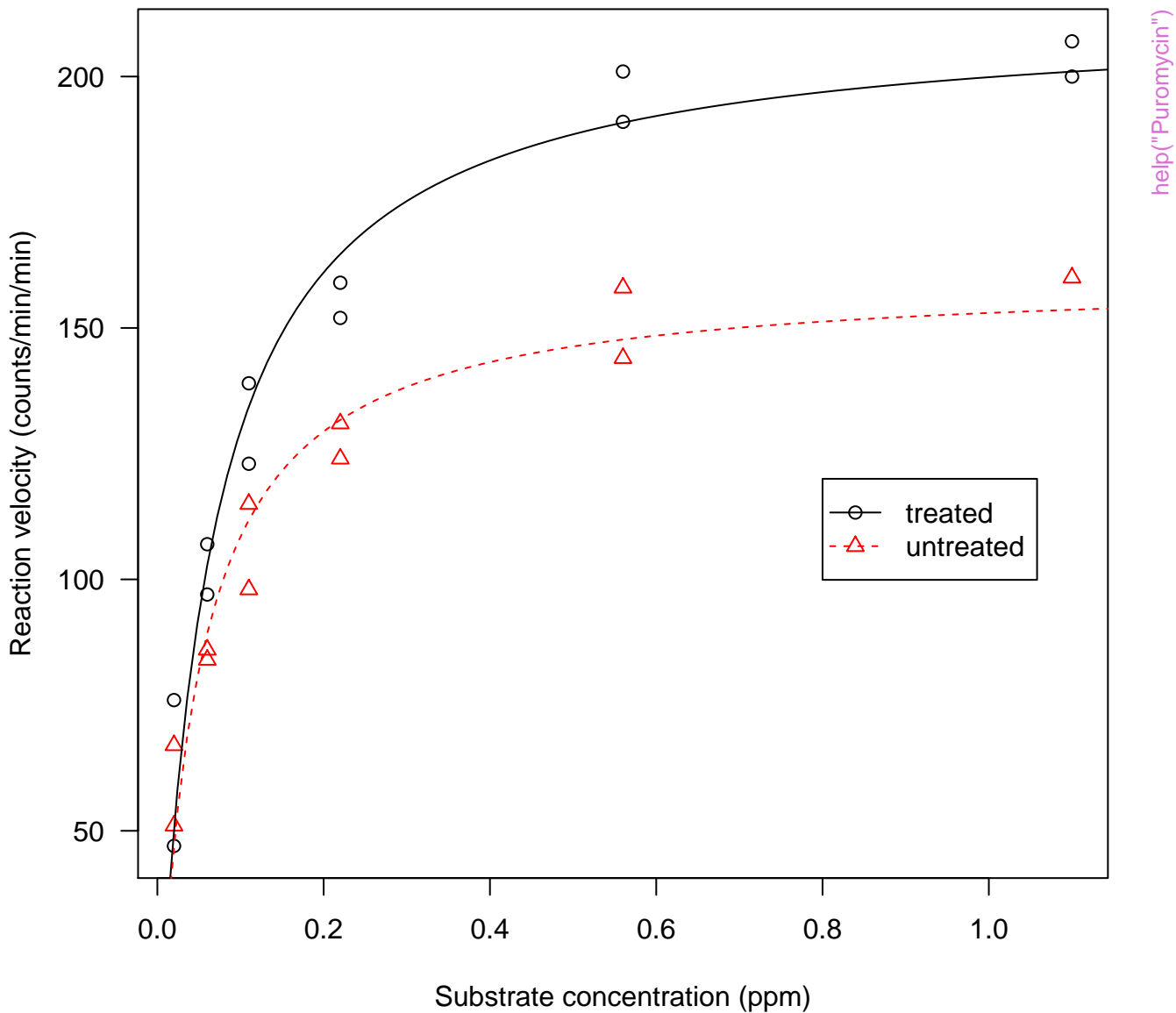


help("OrchardSprays")

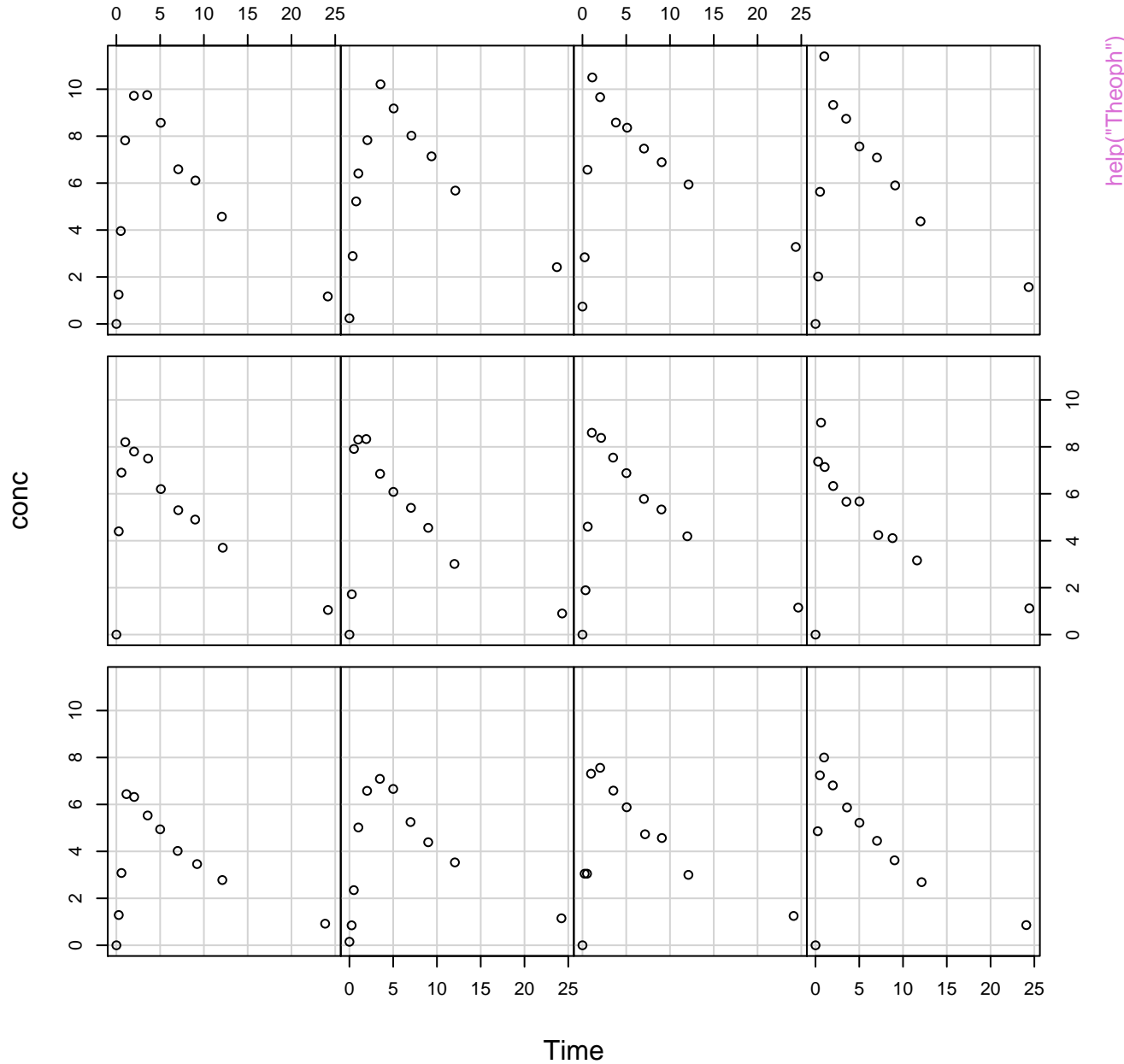
# PlantGrowth data



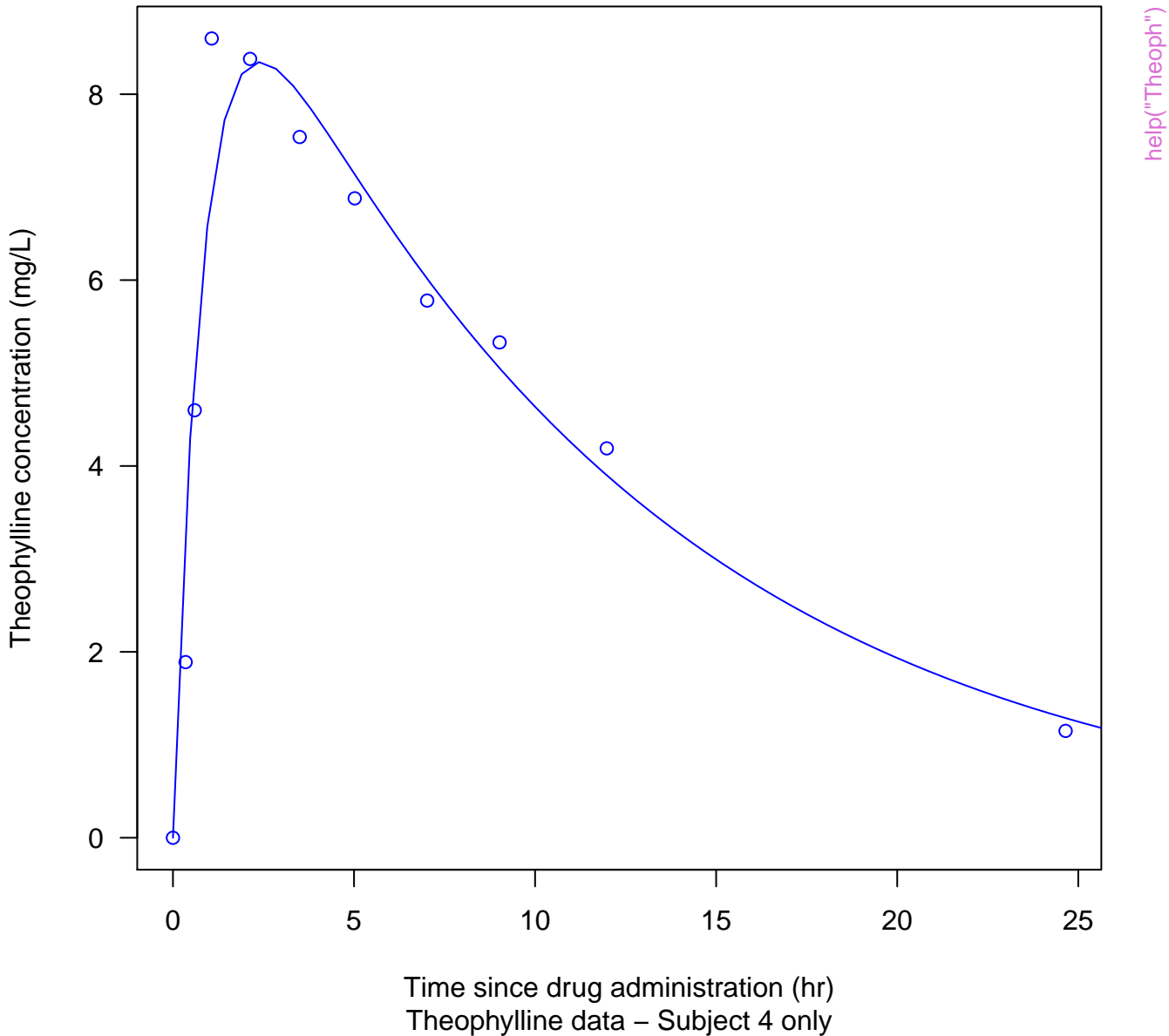
# Puromycin data and fitted Michaelis–Menten curves



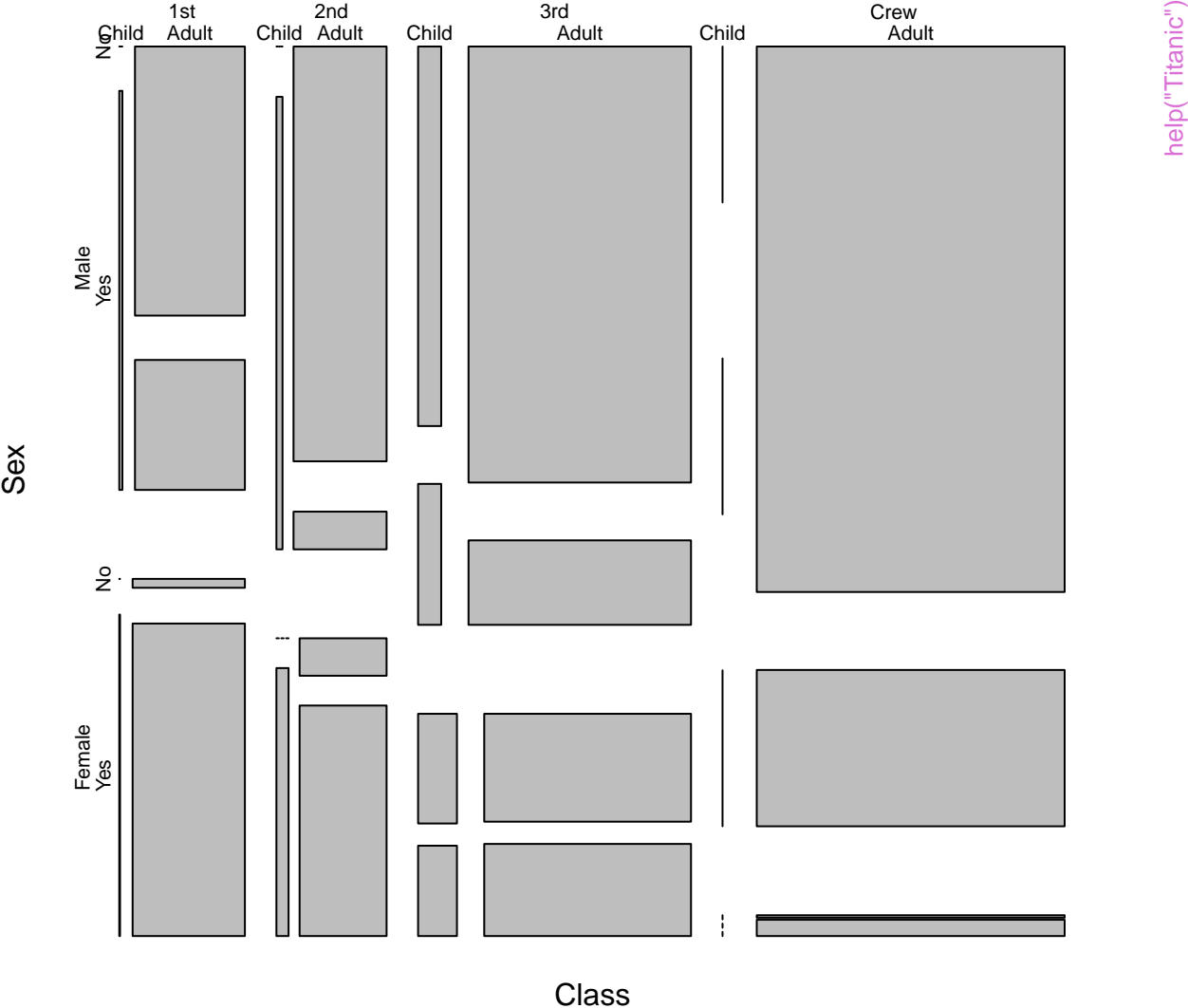
Given : Subject



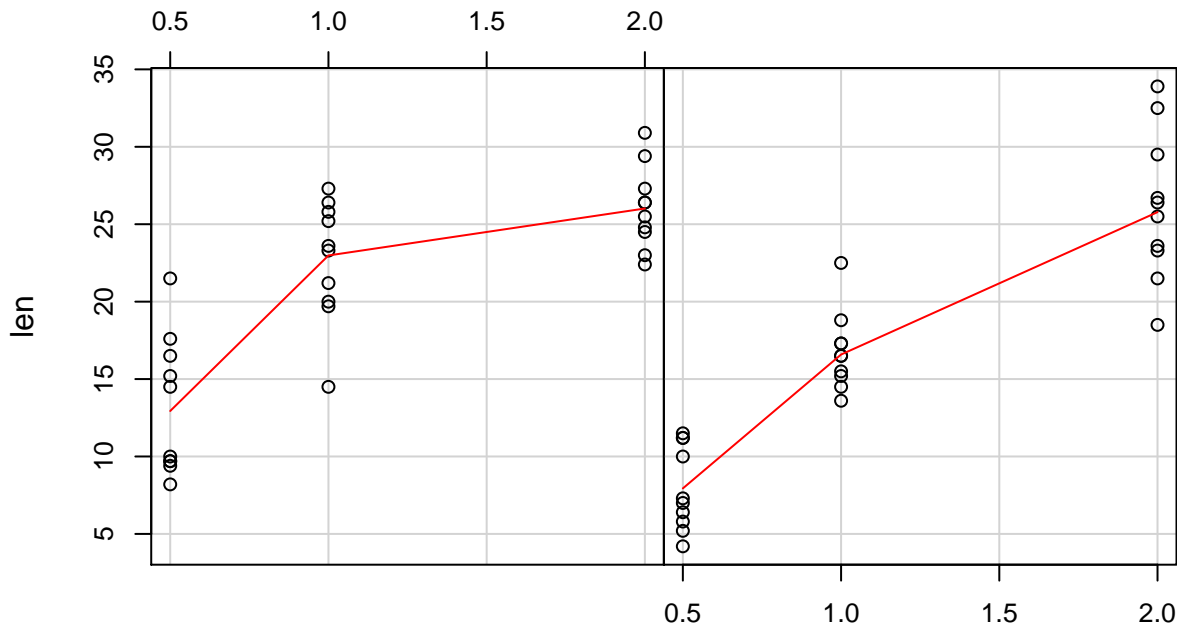
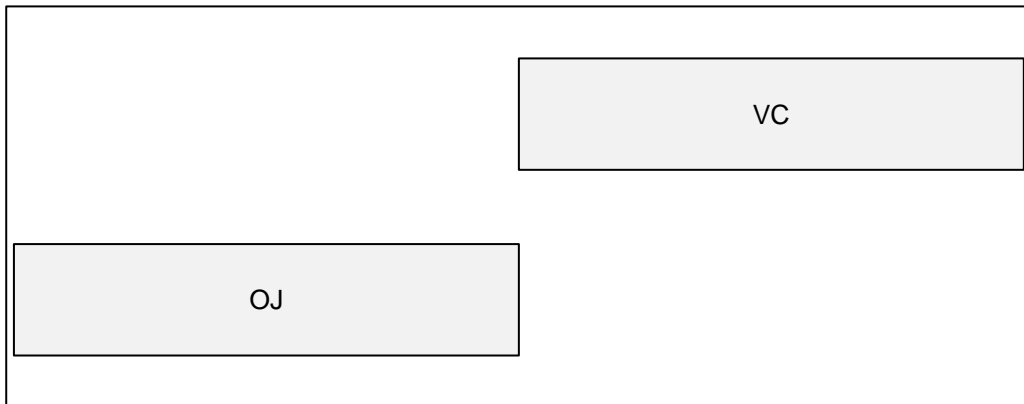
## Observed concentrations and fitted model



# Survival on the Titanic



Given : supp

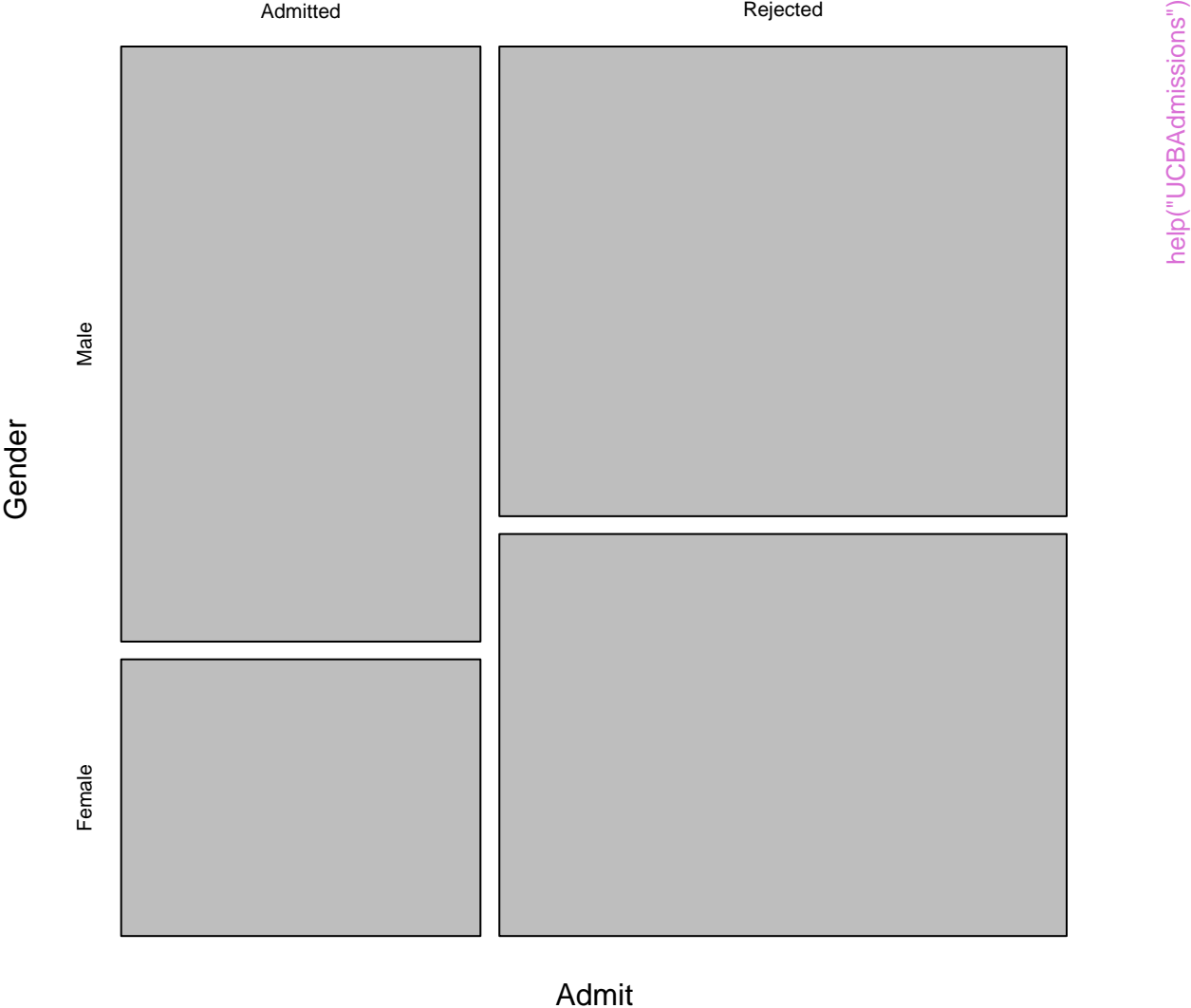


ToothGrowth data: length vs dose, given type of supplement

help("ToothGrowth")

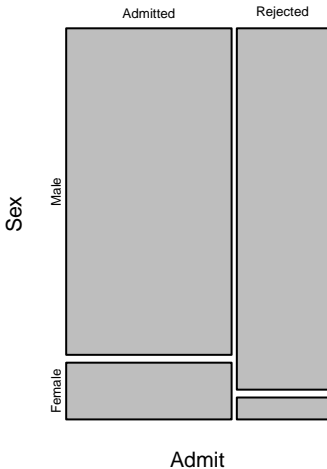


# Student admissions at UC Berkeley

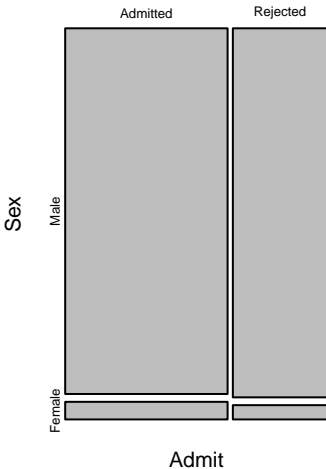


# Student admissions at UC Berkeley

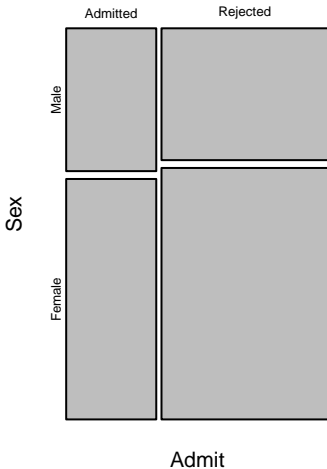
Department A



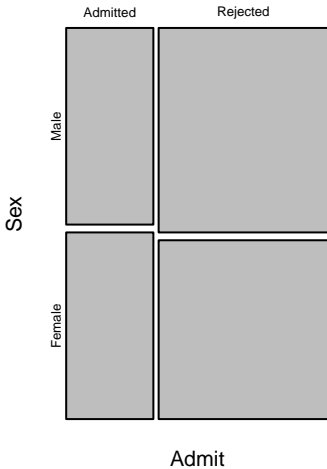
Department B



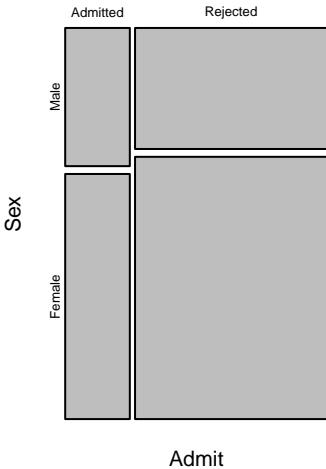
Department C



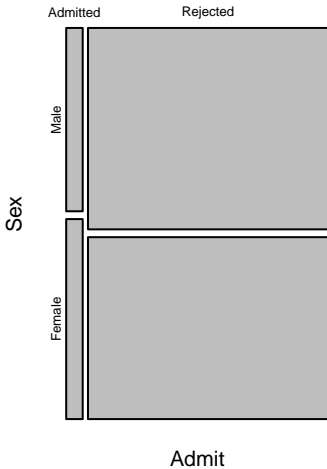
Department D



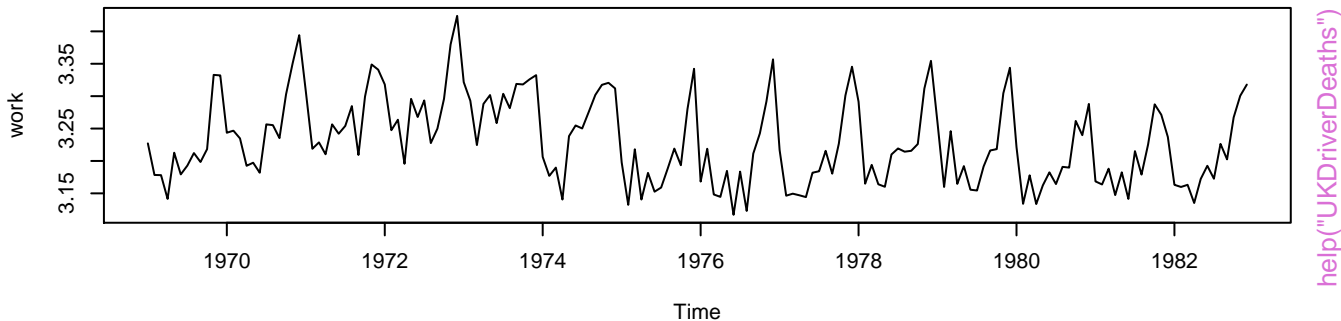
Department E



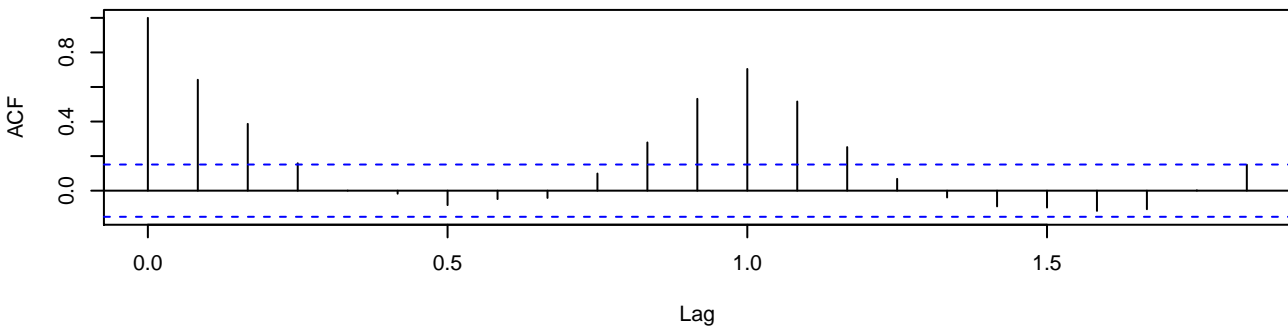
Department F



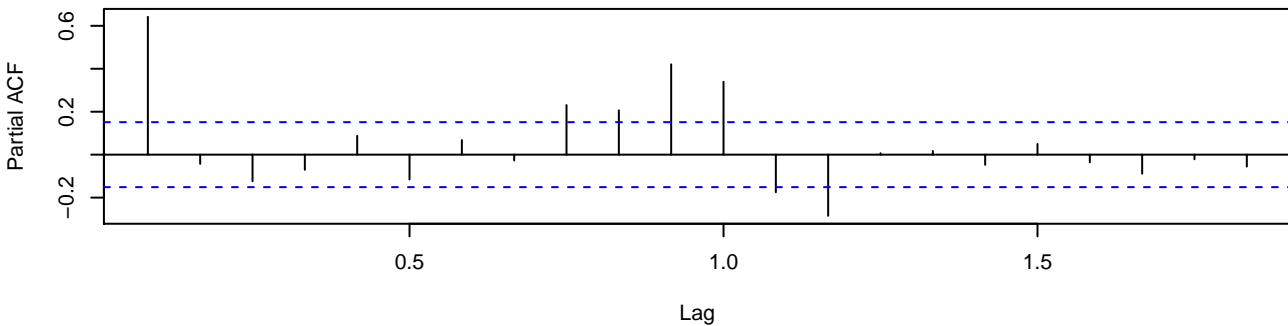
help("UCBAdmissions")

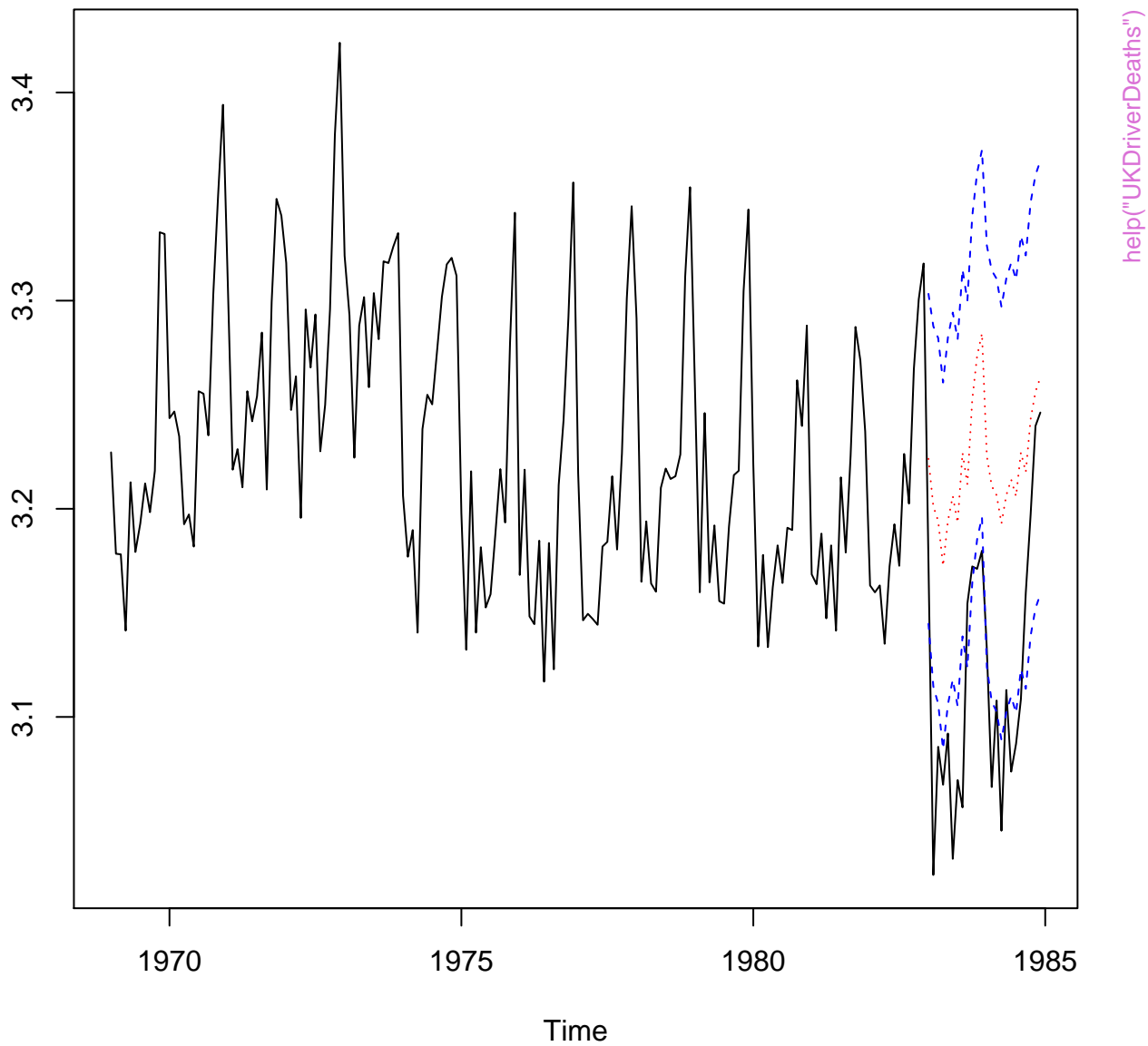


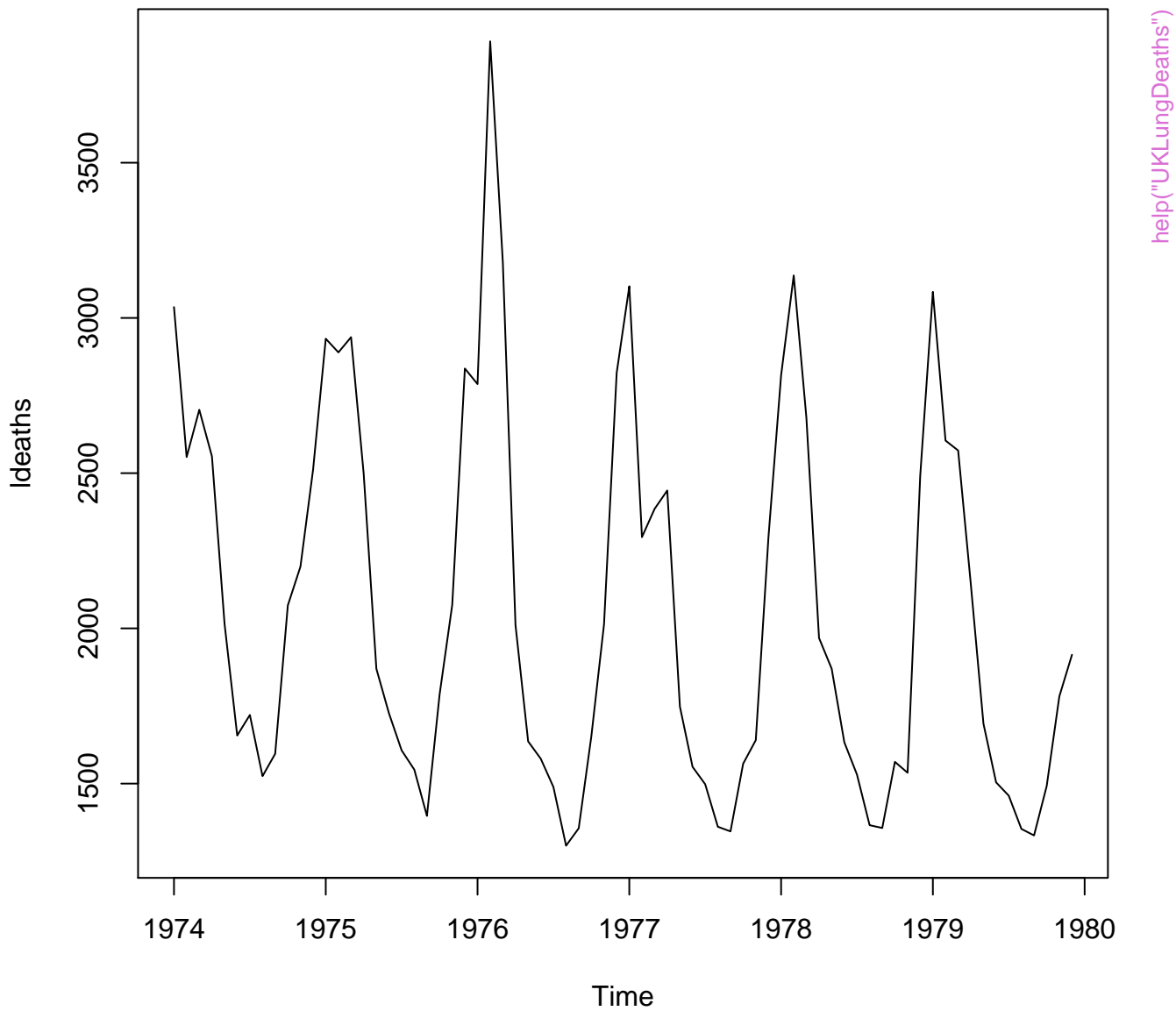
Series work

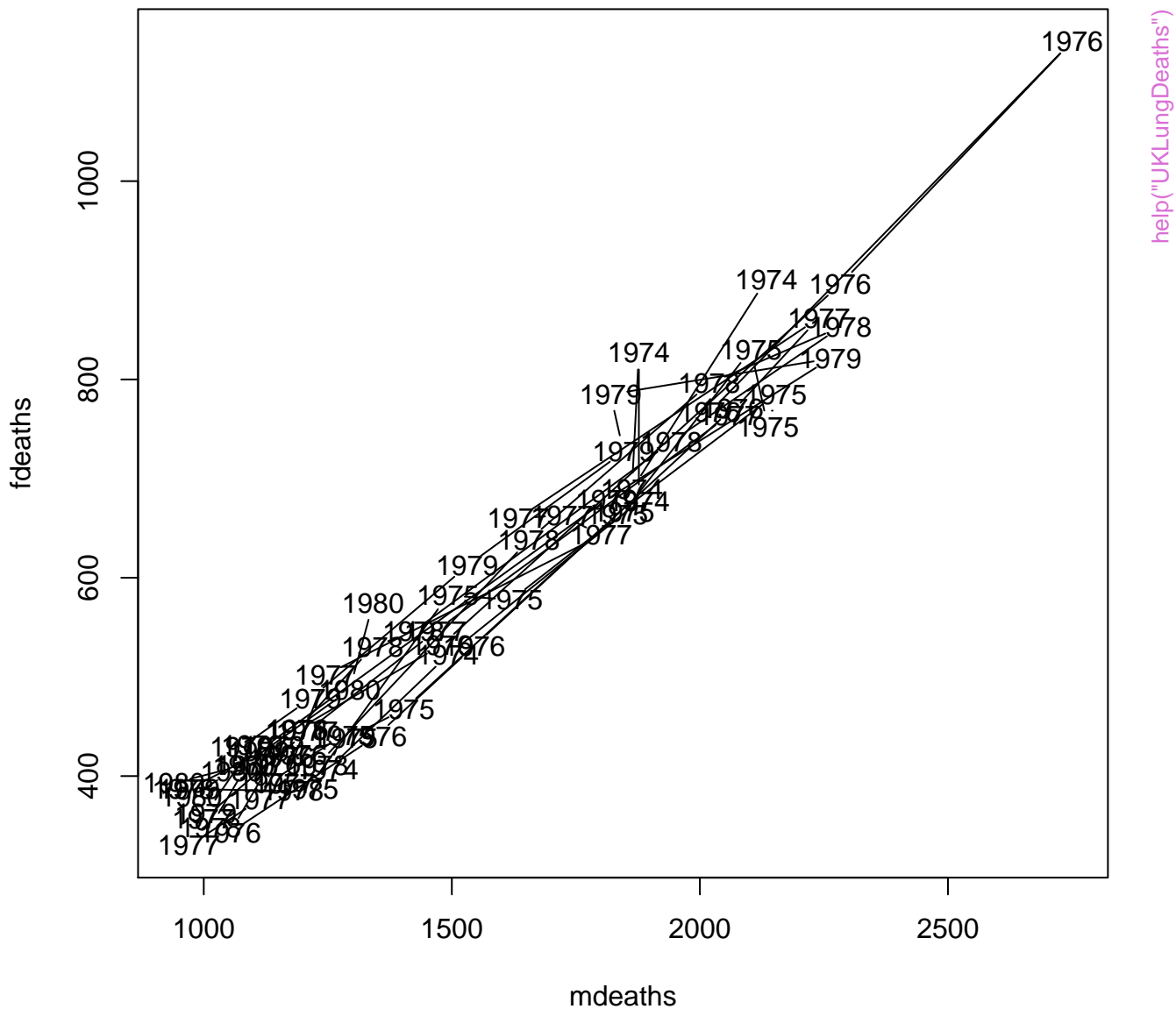


Series work



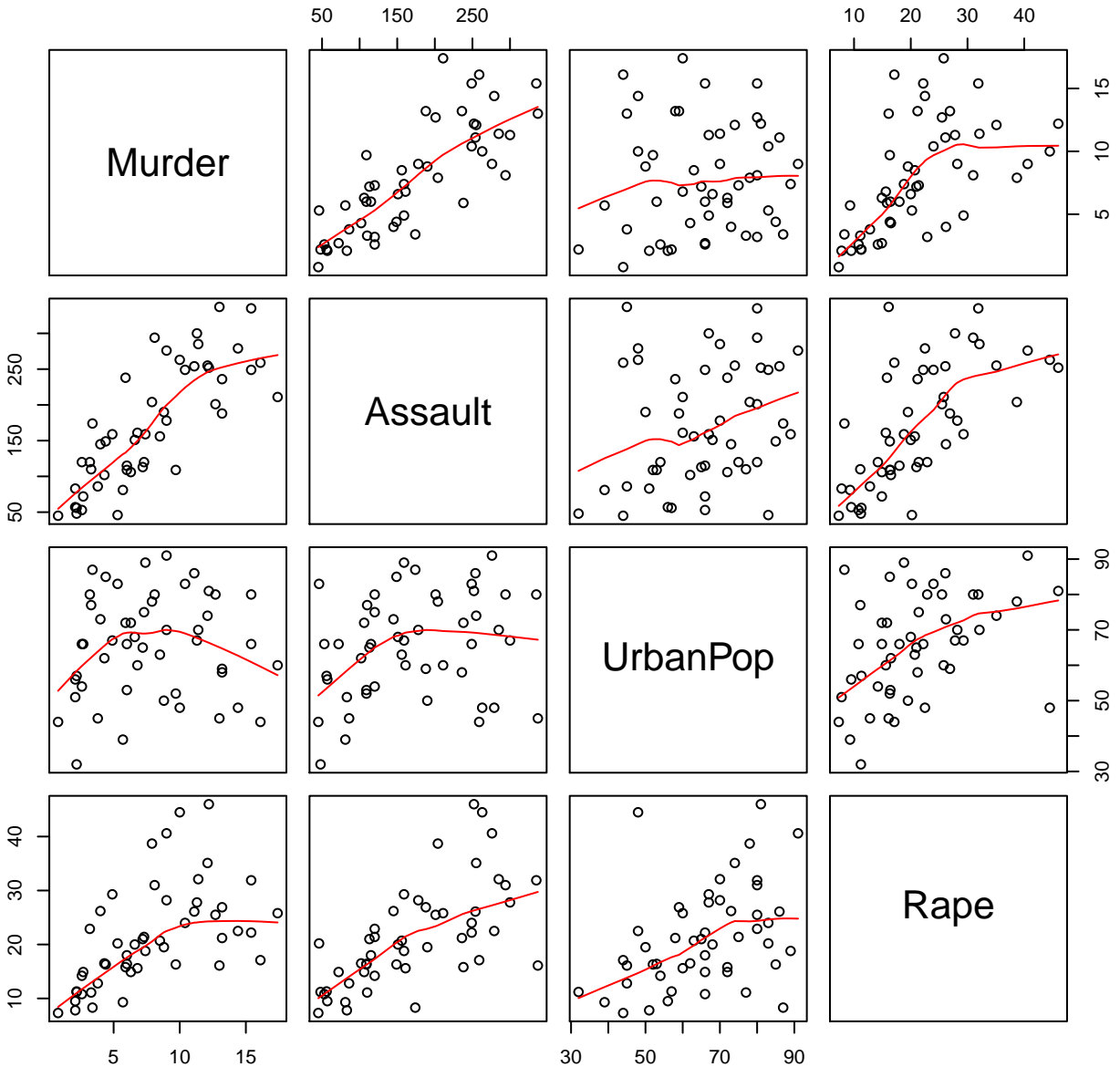








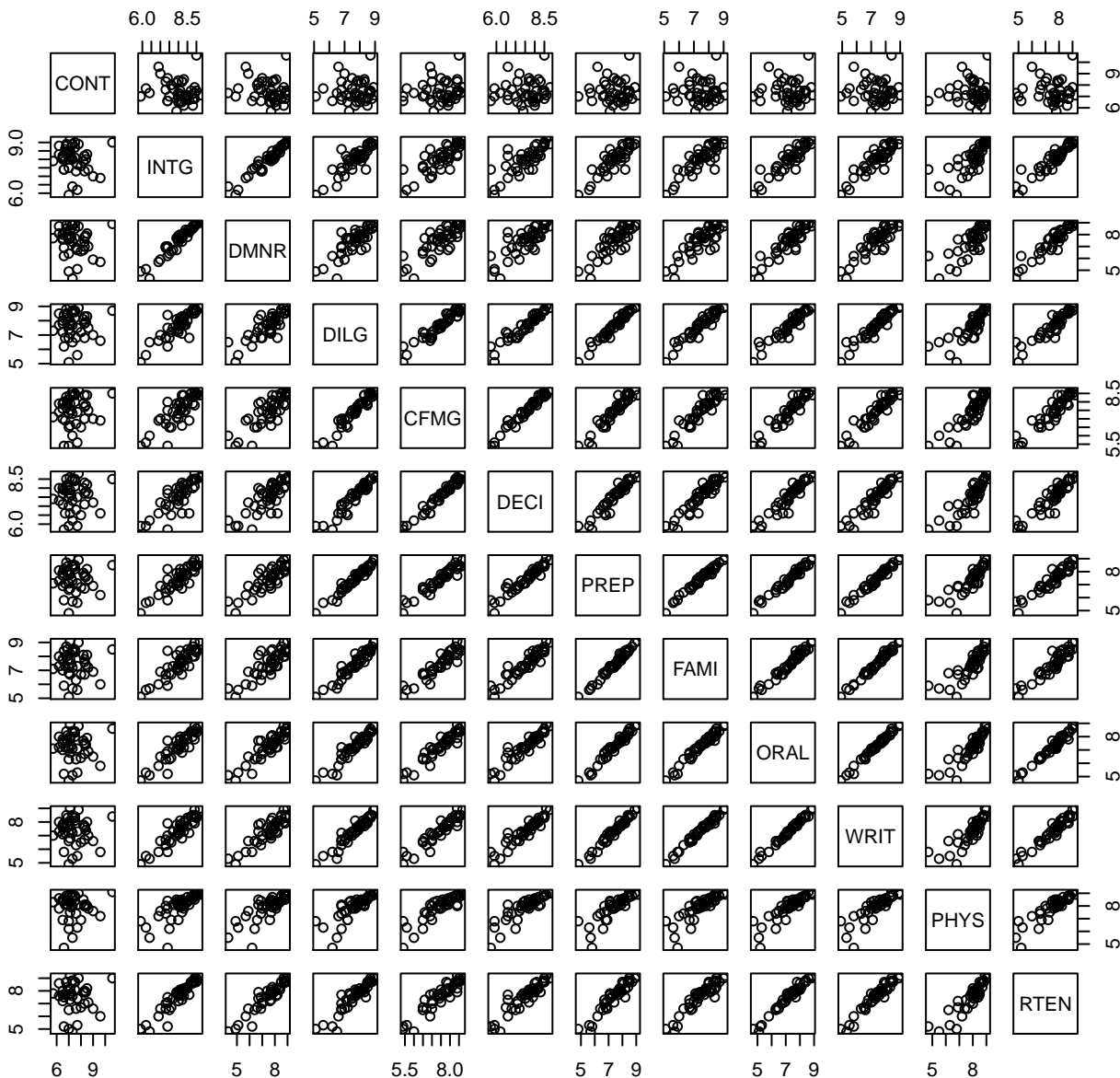
# USArrests data



help("USArrests")

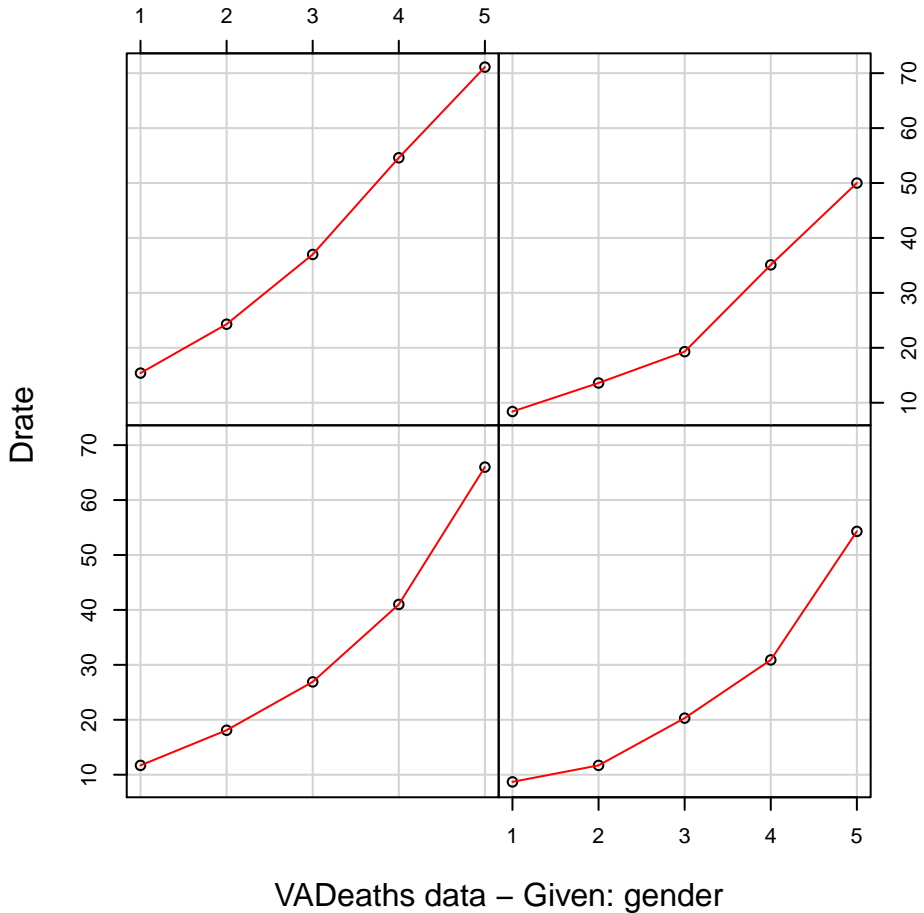
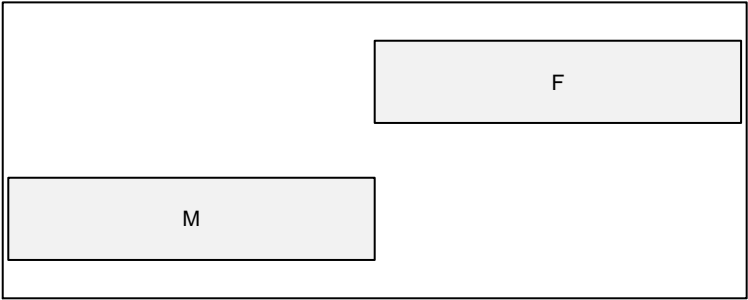


# USJudgeRatings data



help("USJudgeRatings")

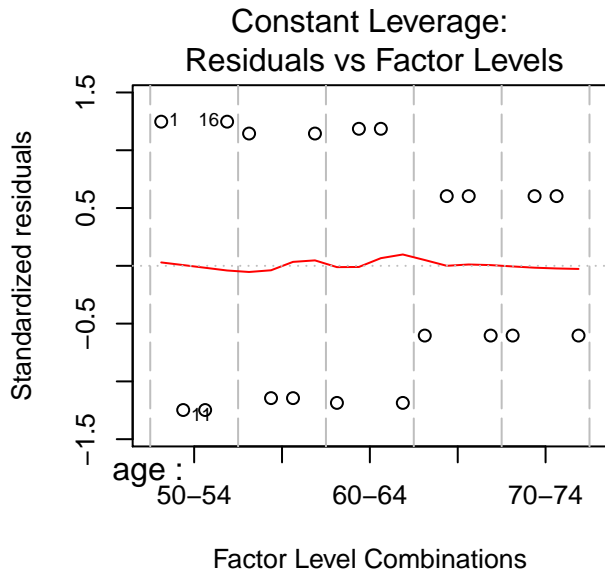
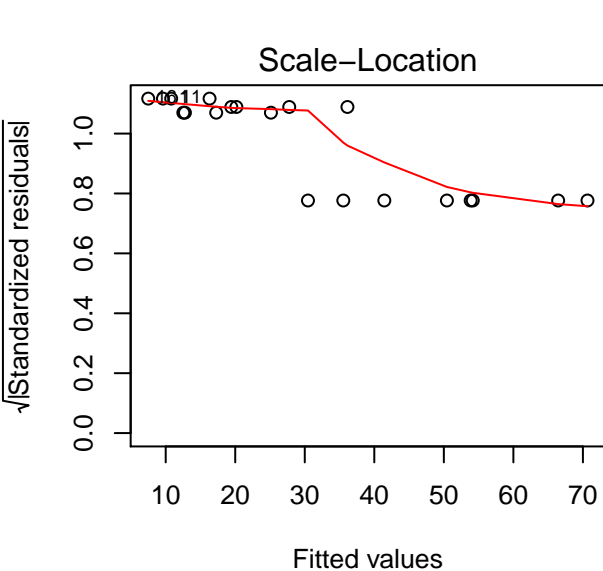
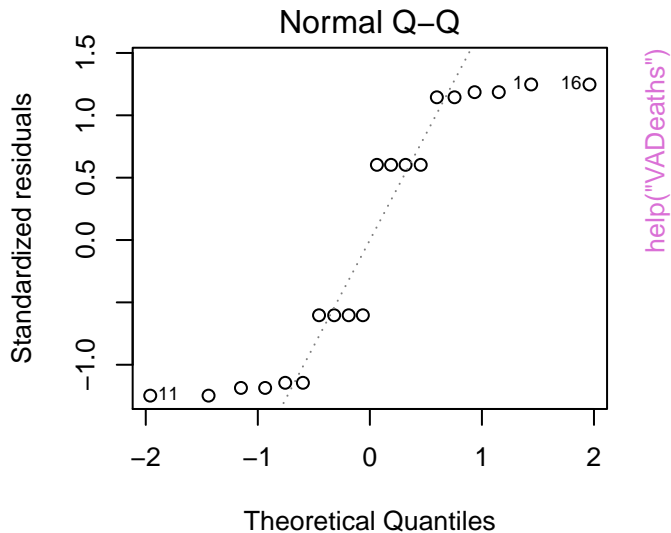
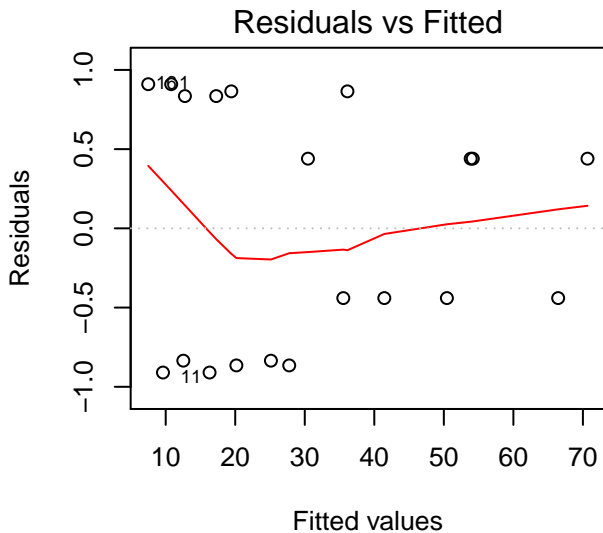
Given : gender

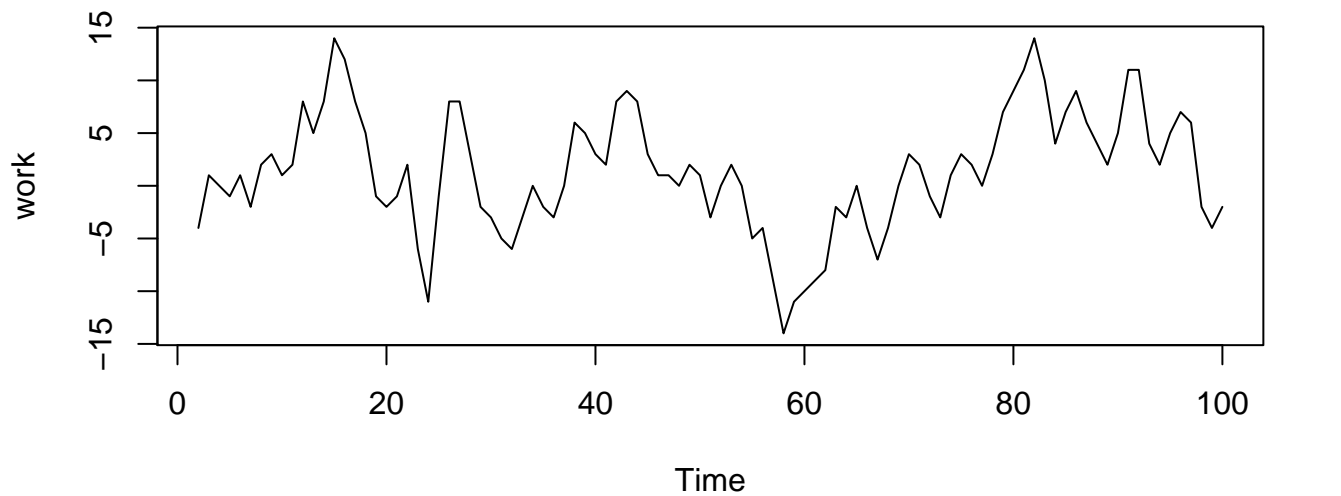
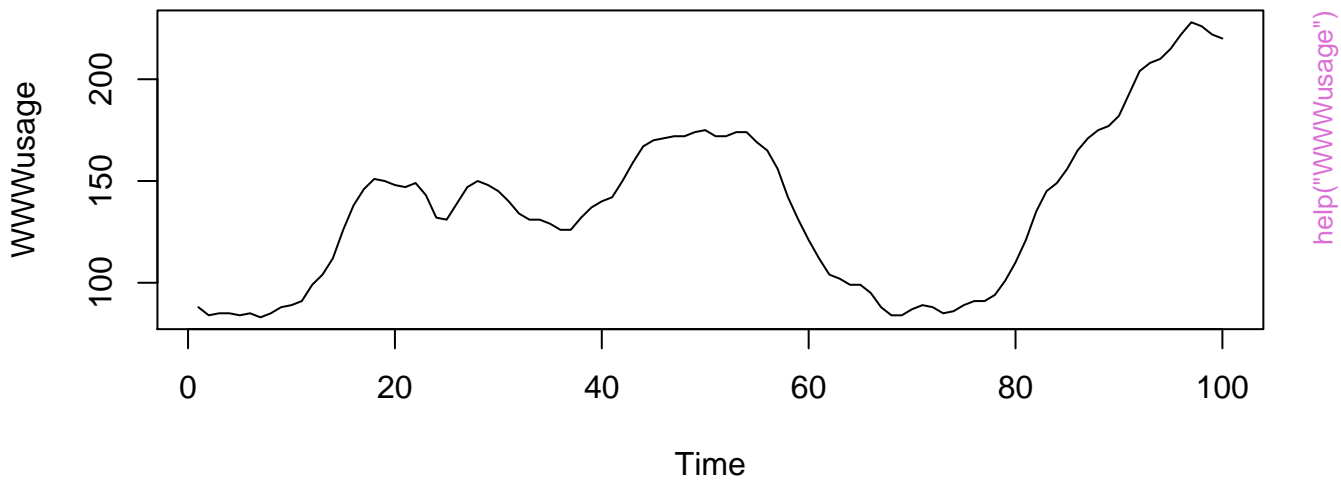


help("VADeaths")

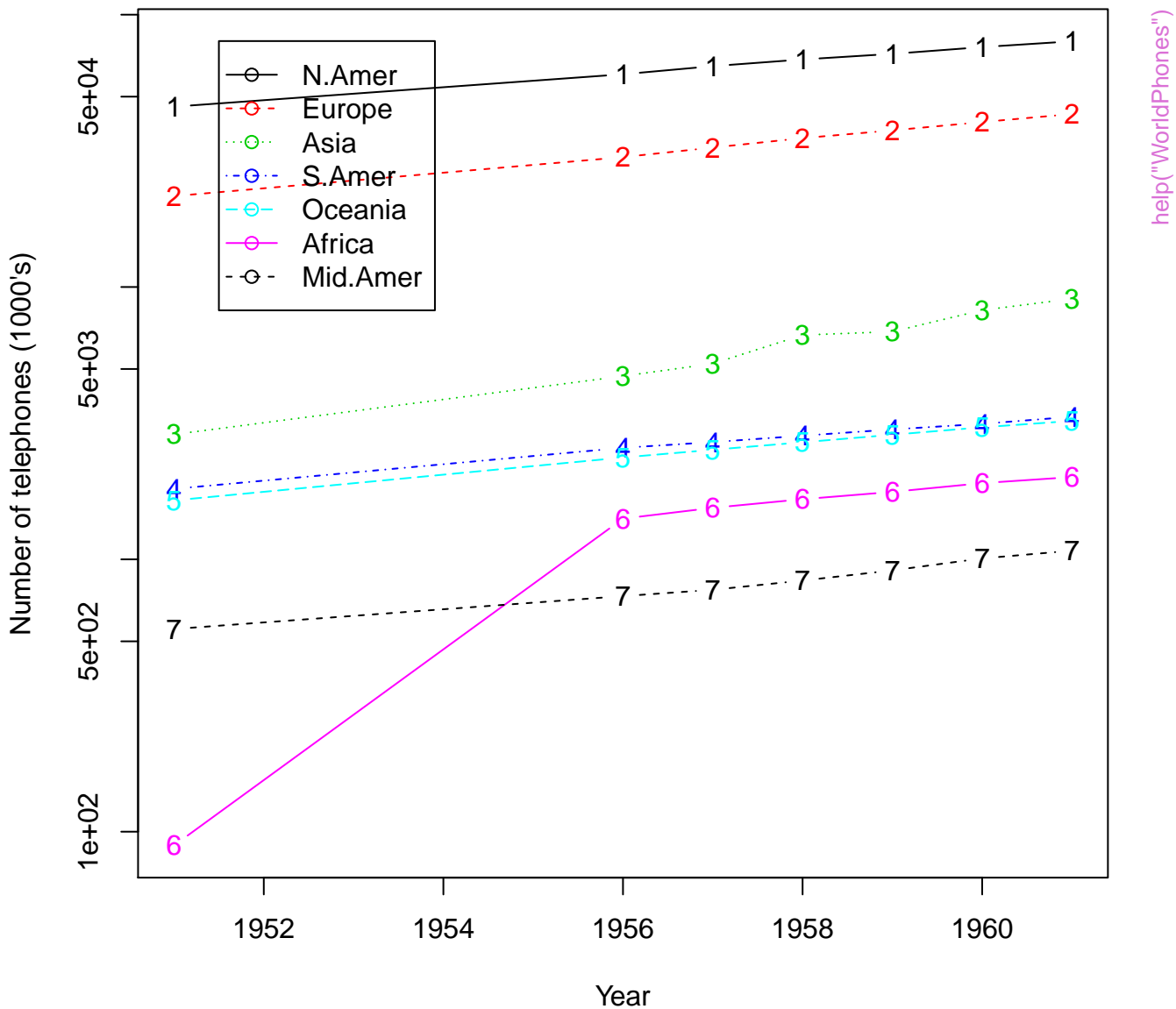
Given : site

aov(Drate ~ .^2)

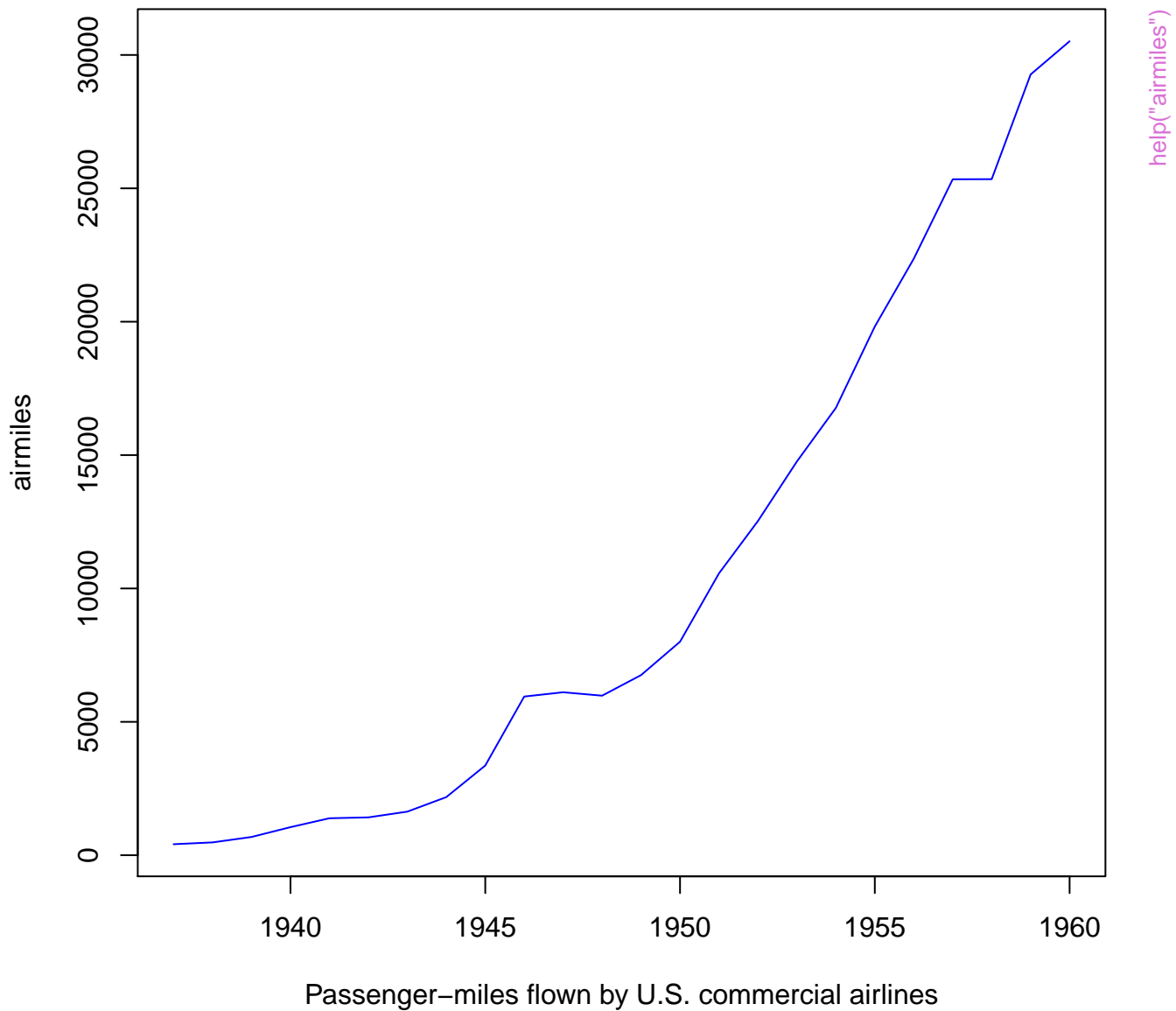




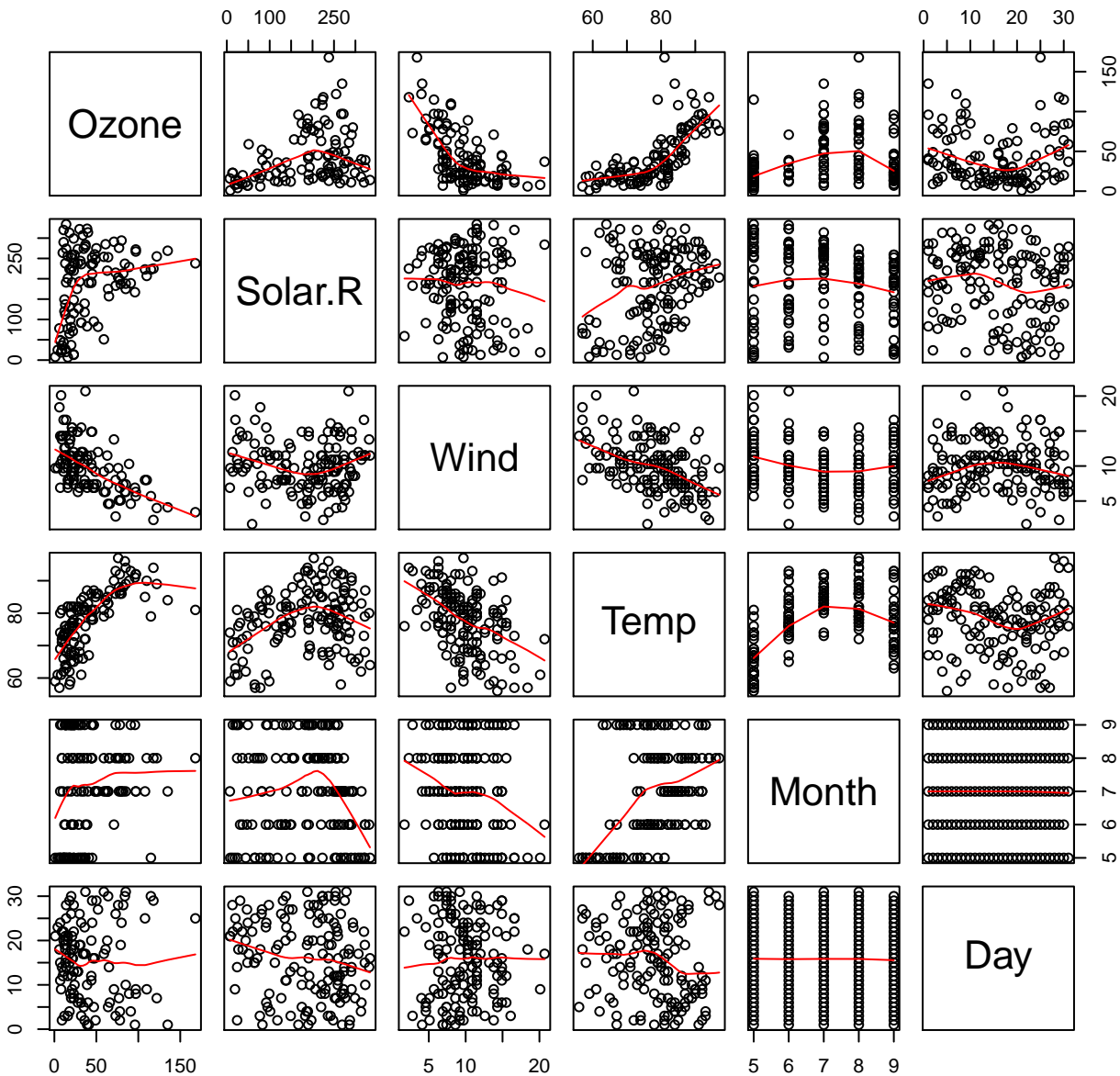
# World phones data: log scale for response



## airmiles data

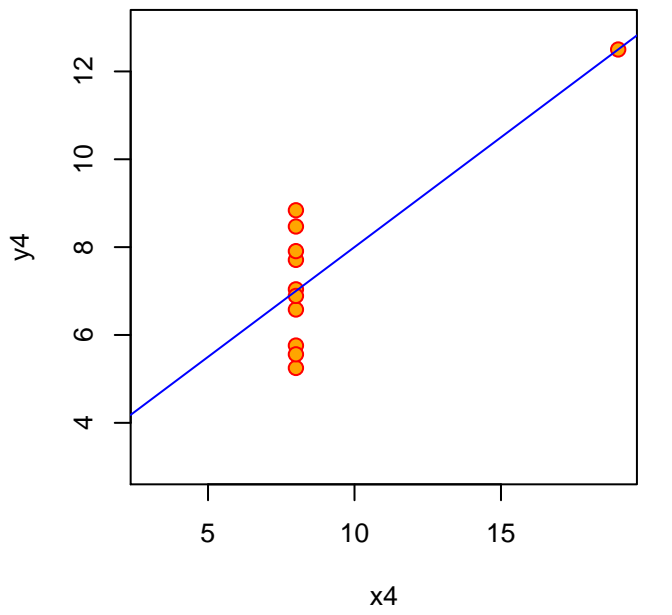
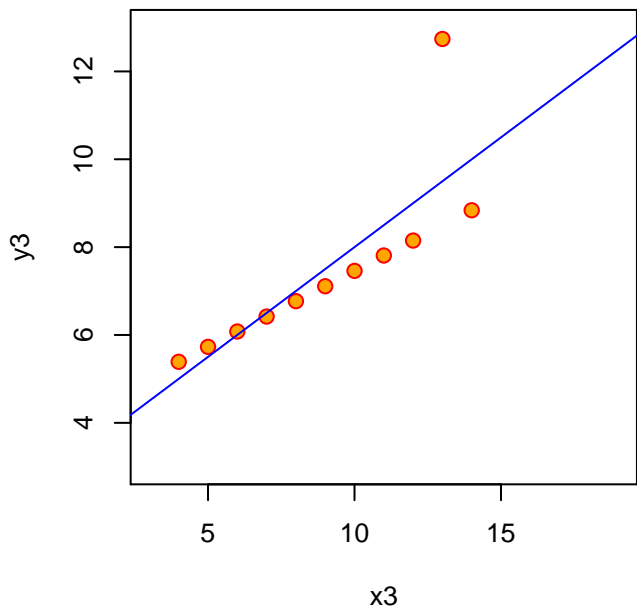
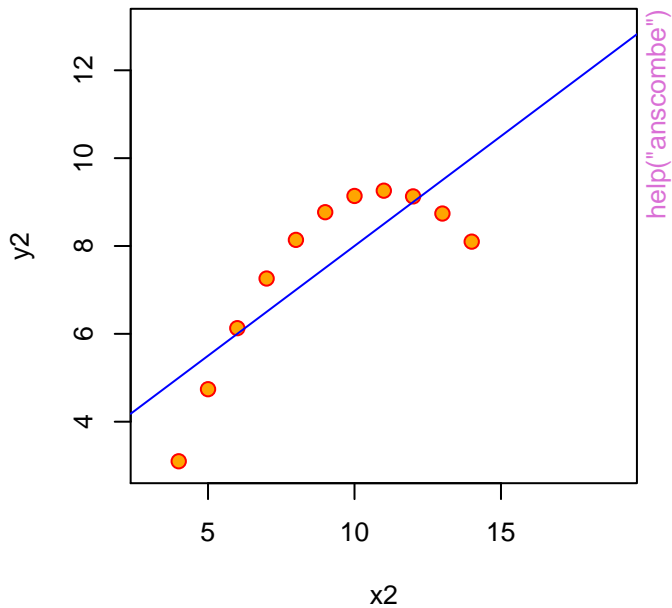
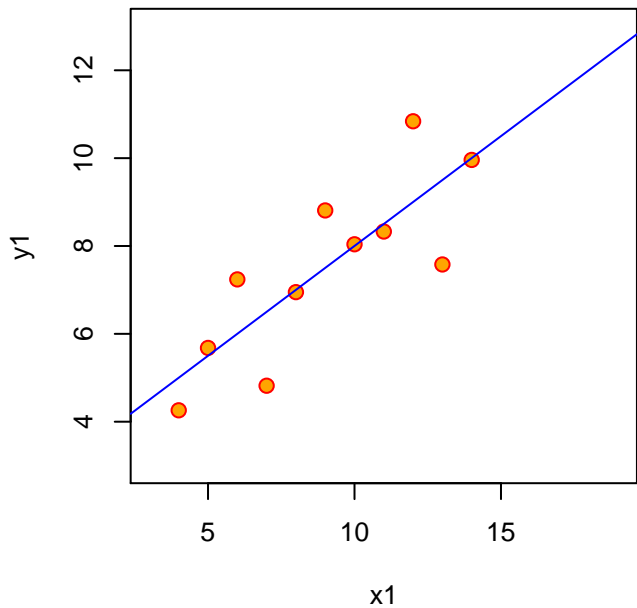


# airquality data



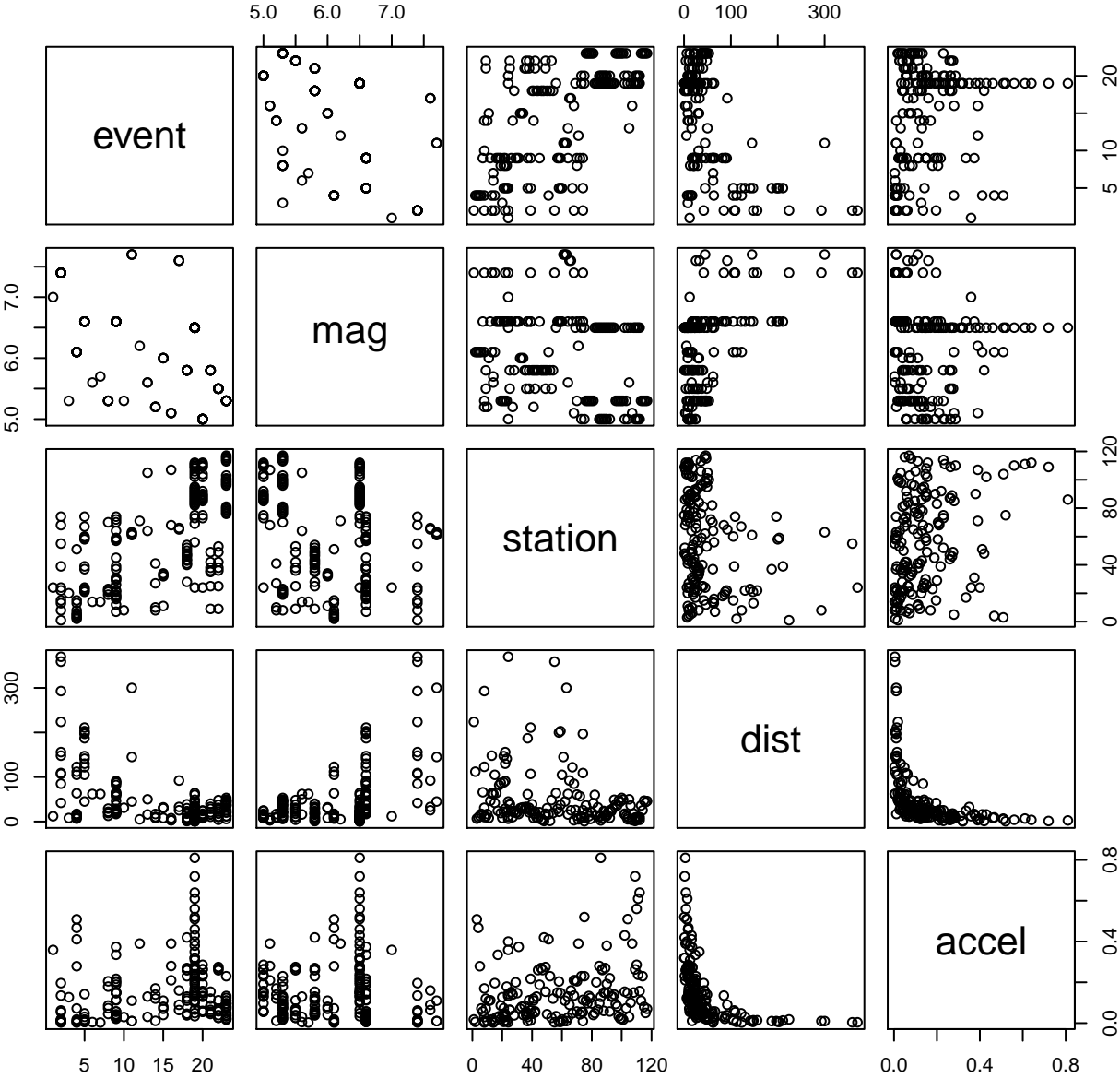
help("airquality")

# Anscombe's 4 Regression data sets



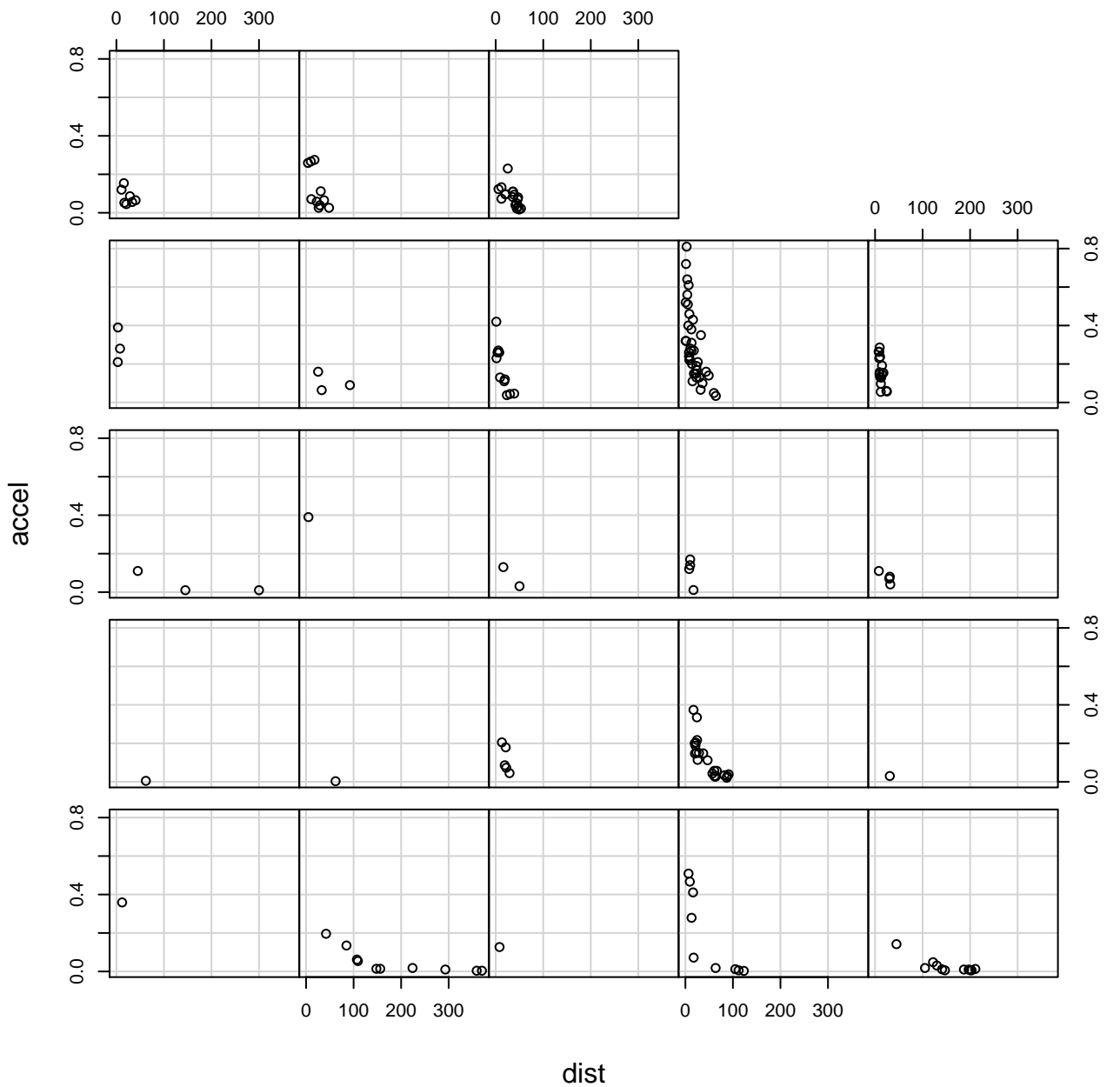


attenu data

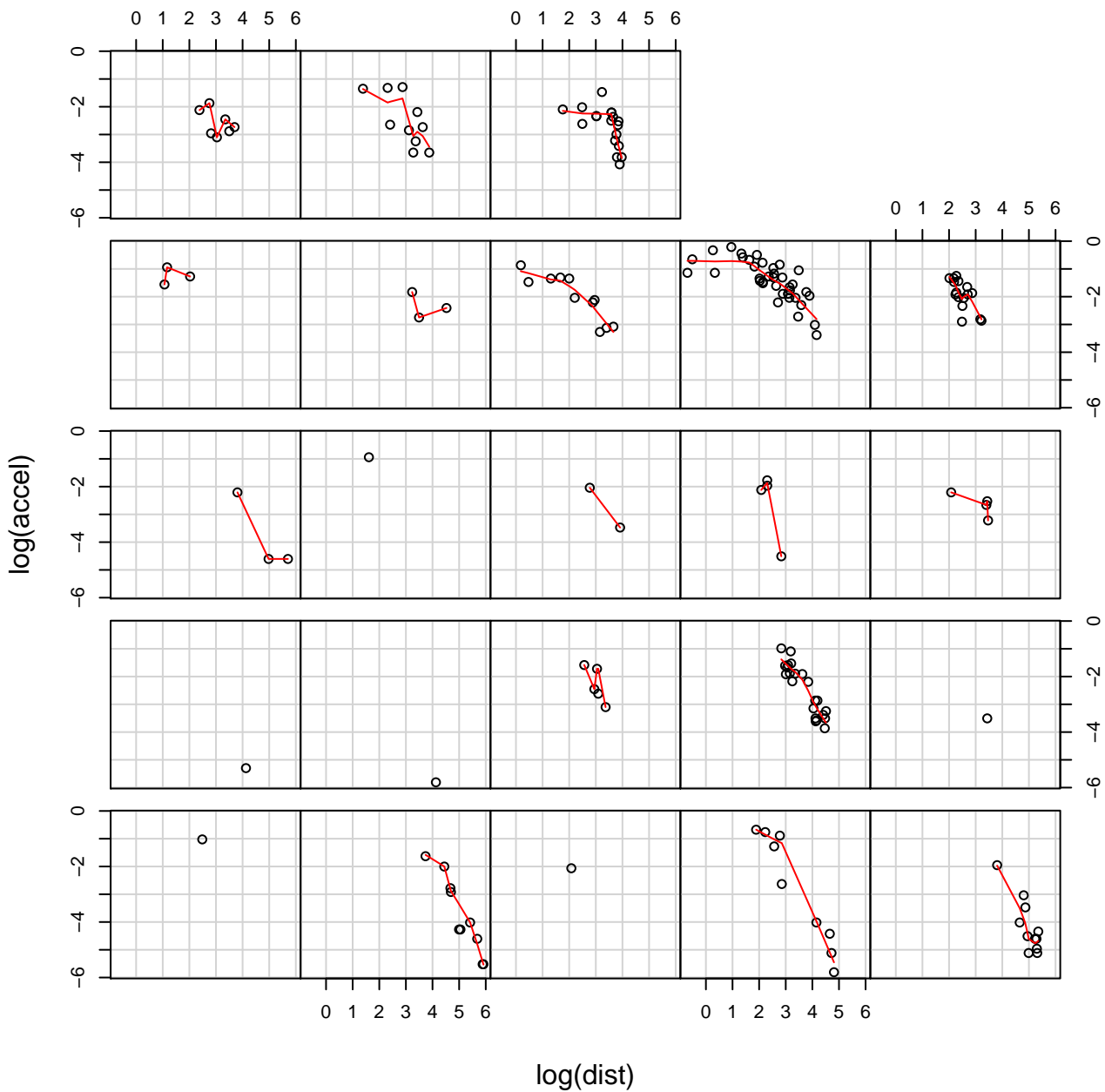


help("attenu")

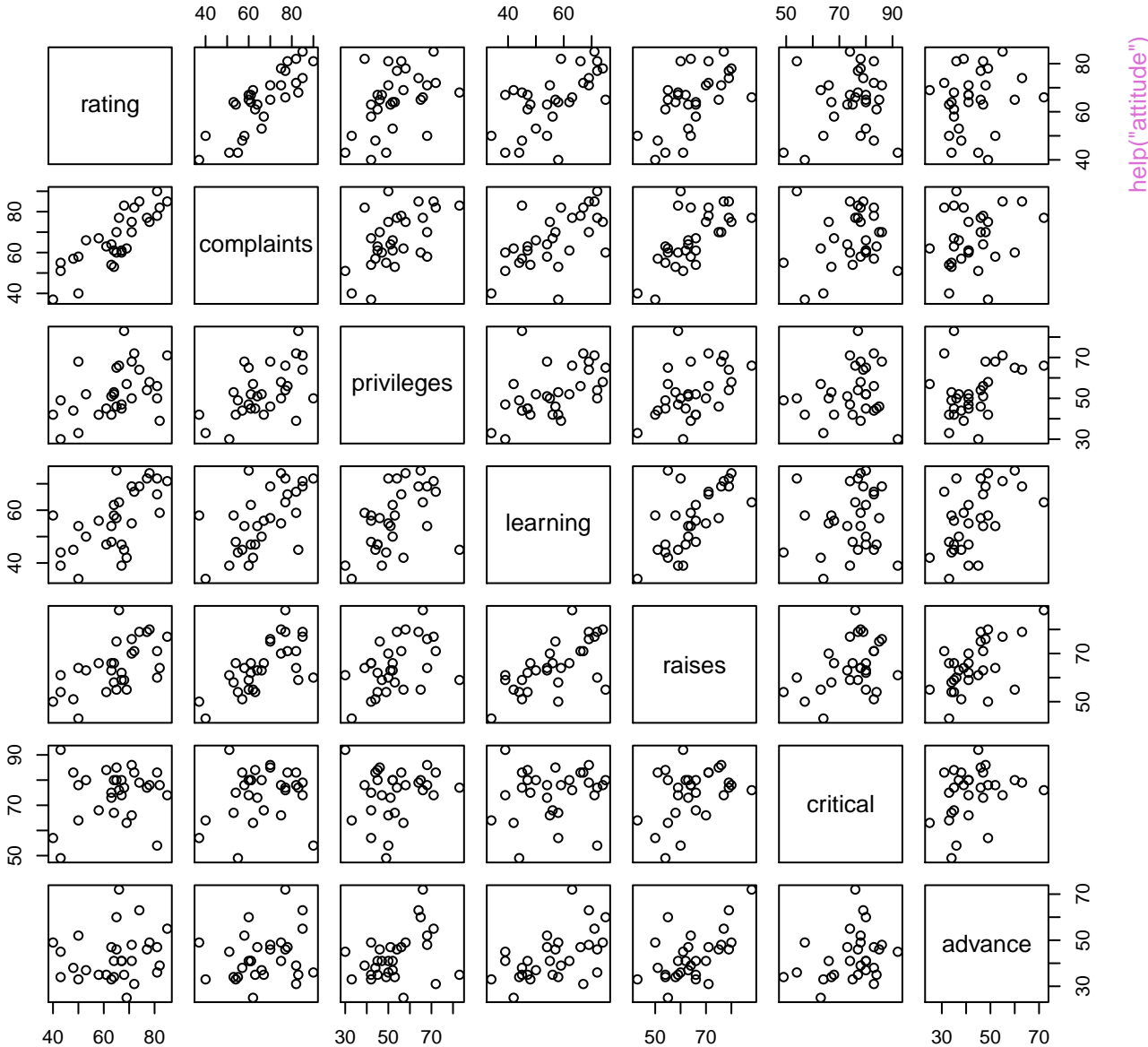
Given : as.factor(event)



Given : as.factor(event)

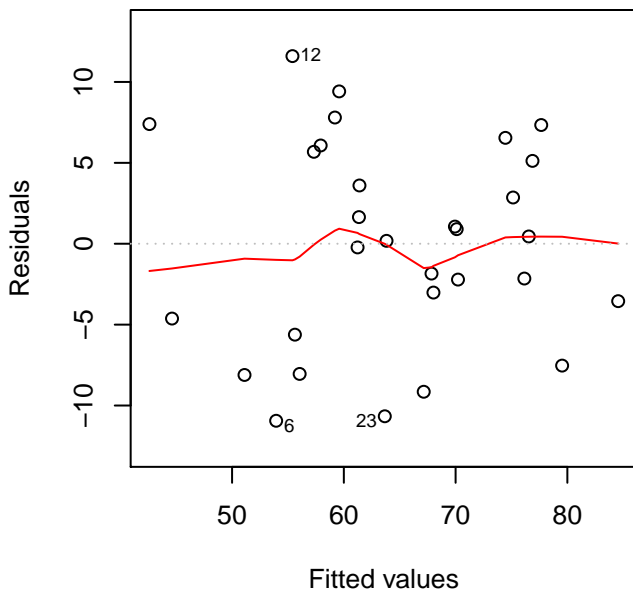


# attitude data

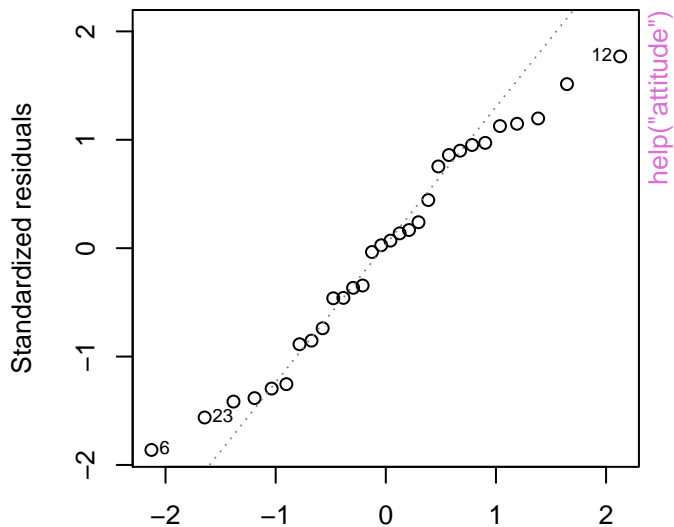


lm(rating ~ .)

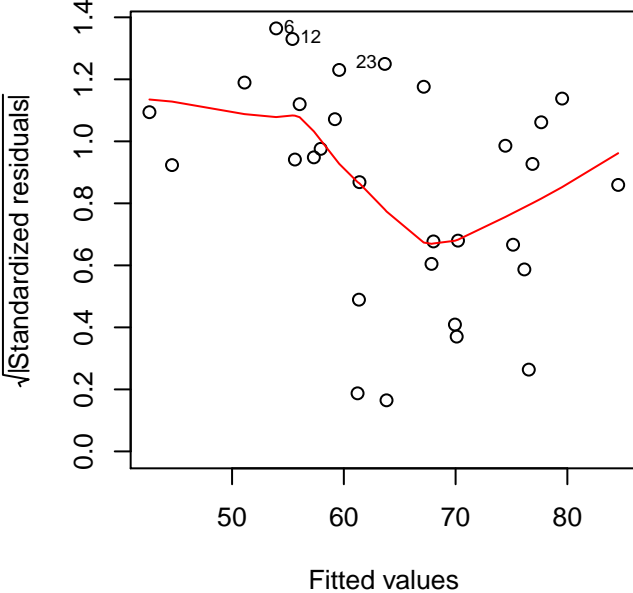
Residuals vs Fitted



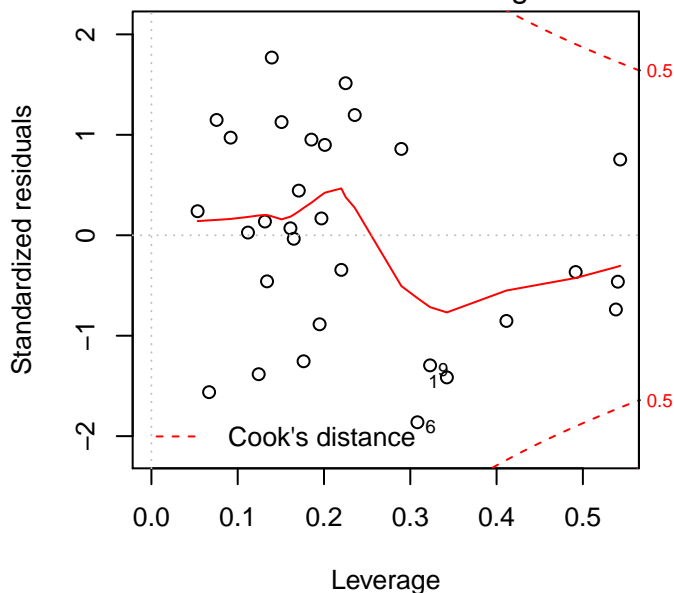
Normal Q-Q



Scale-Location

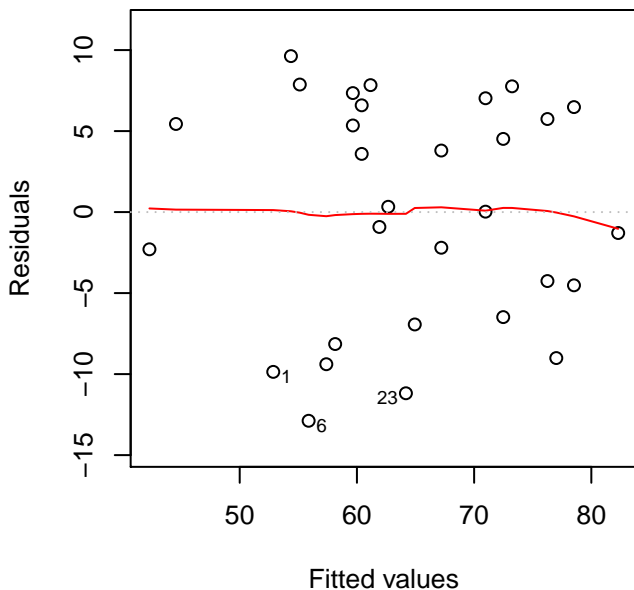


Residuals vs Leverage

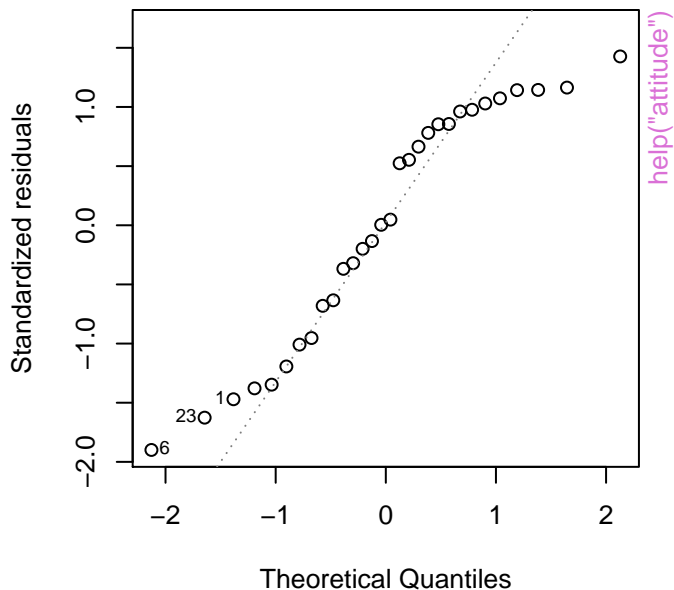


lm(rating ~ complaints)

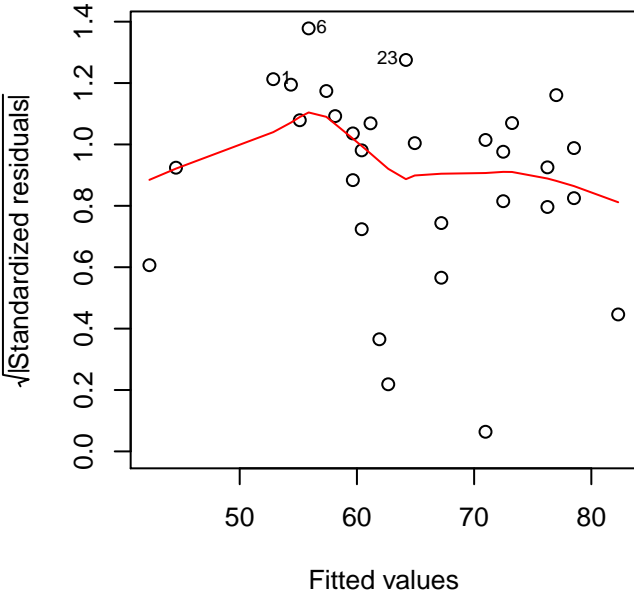
Residuals vs Fitted



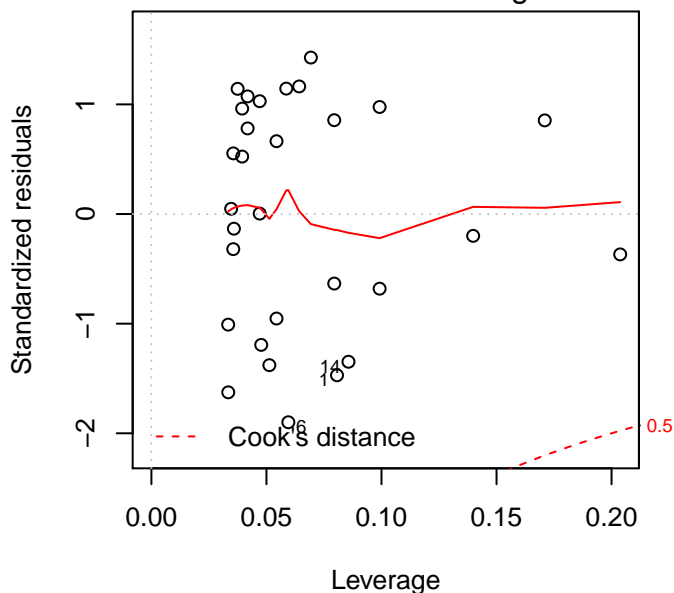
Normal Q-Q



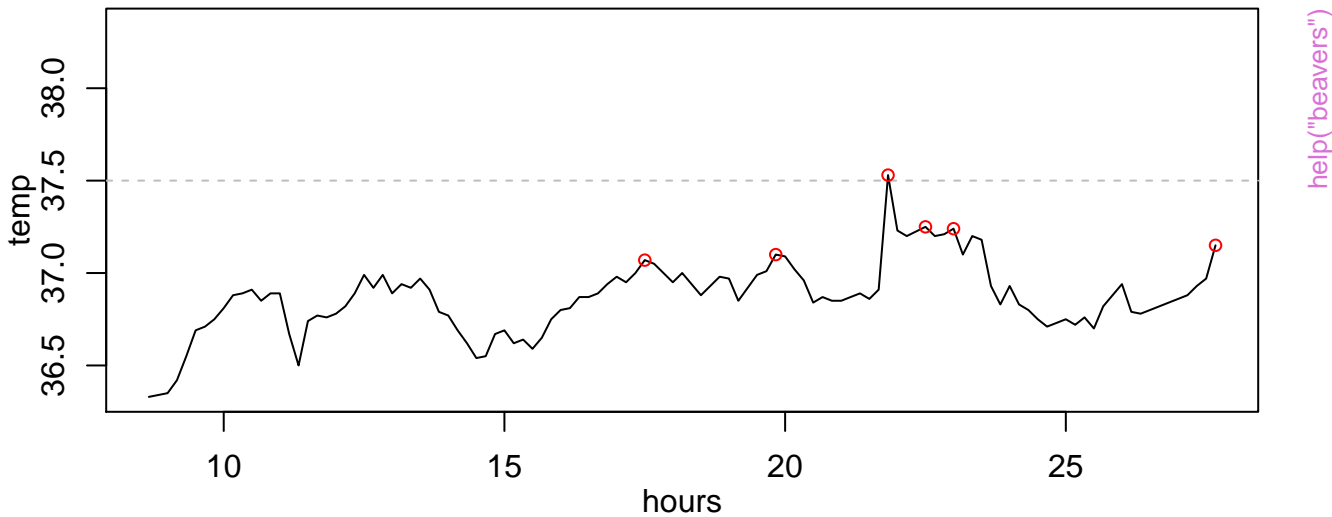
Scale-Location



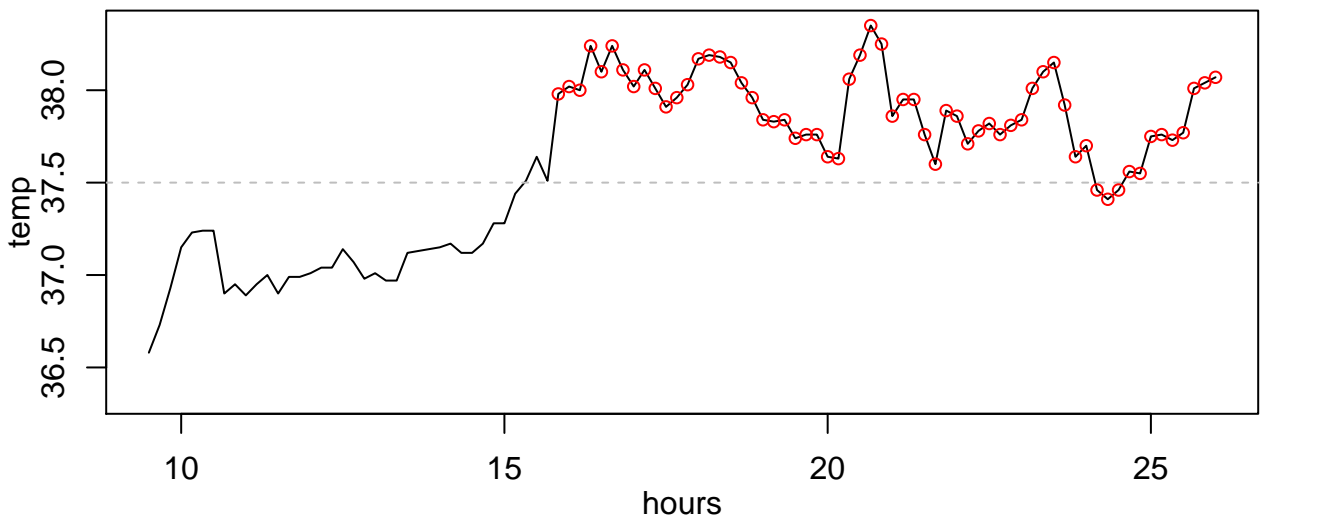
Residuals vs Leverage



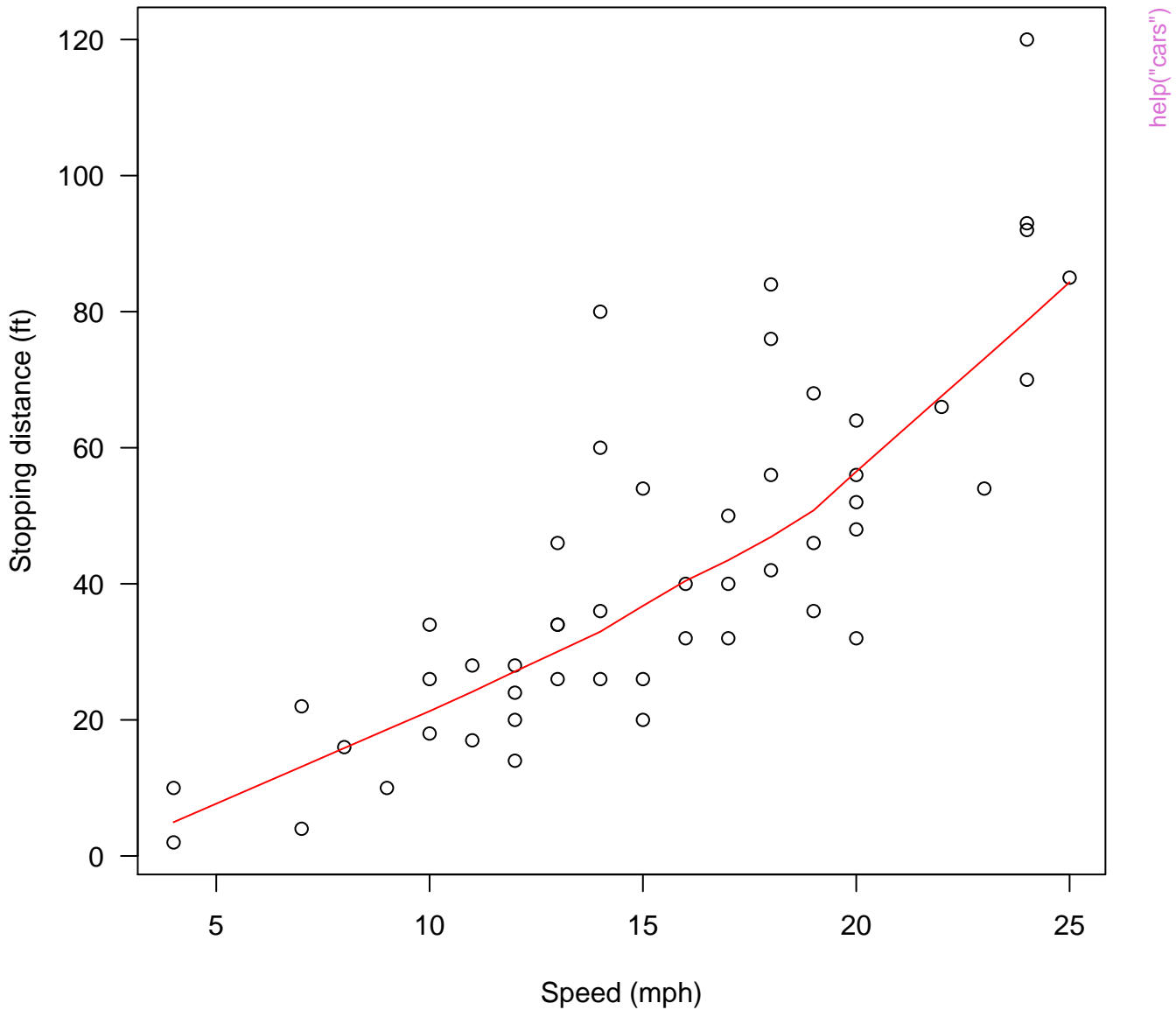
**beaver1 body temperature**



**beaver2 body temperature**

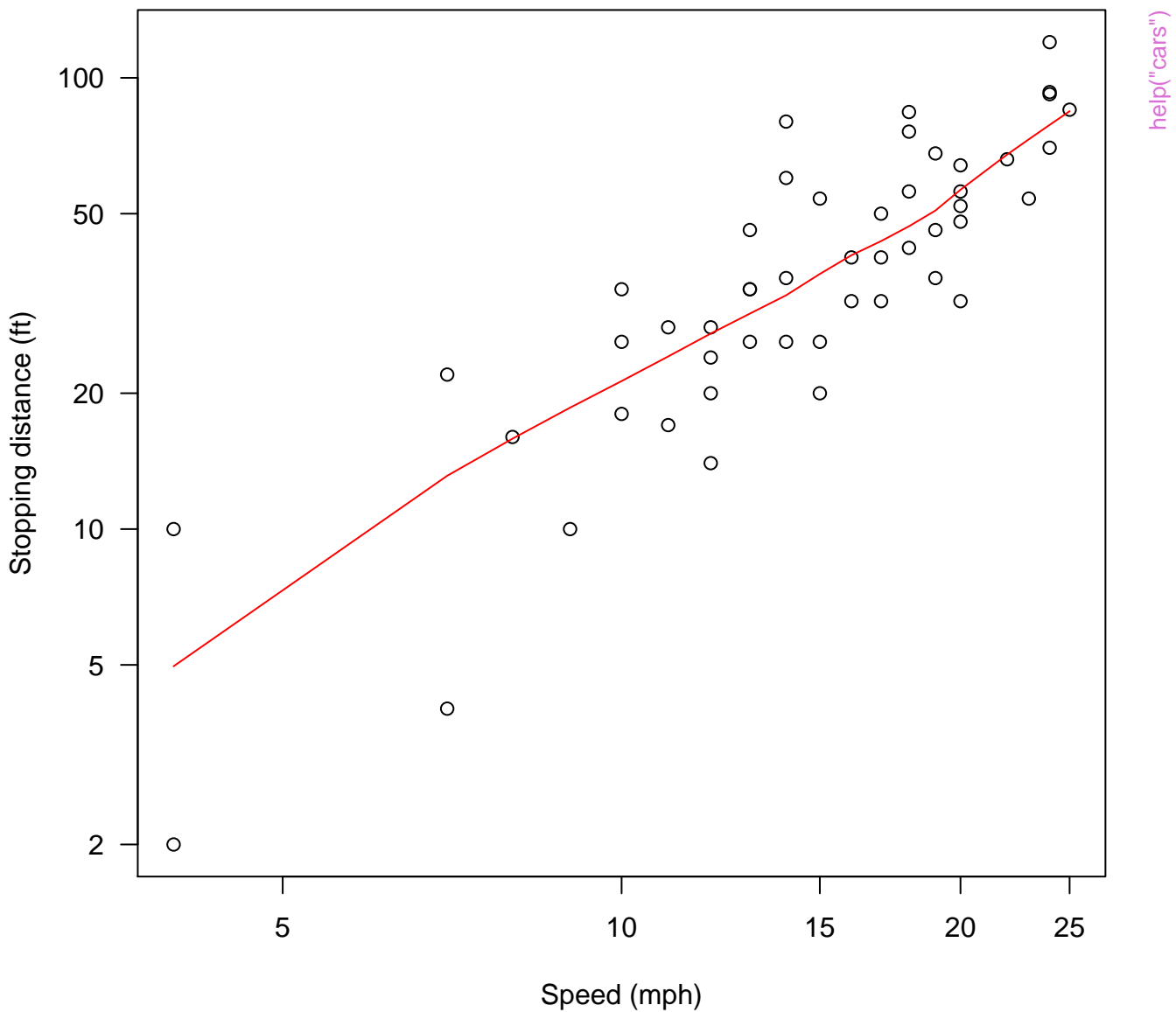


**cars data**

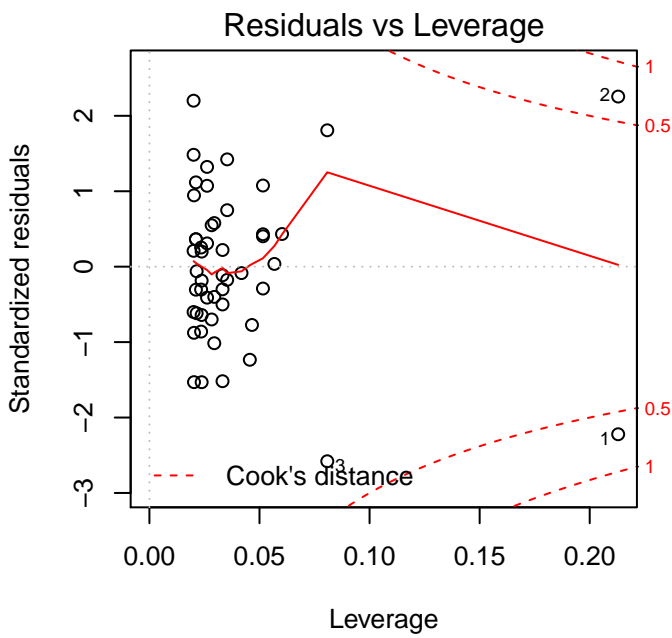
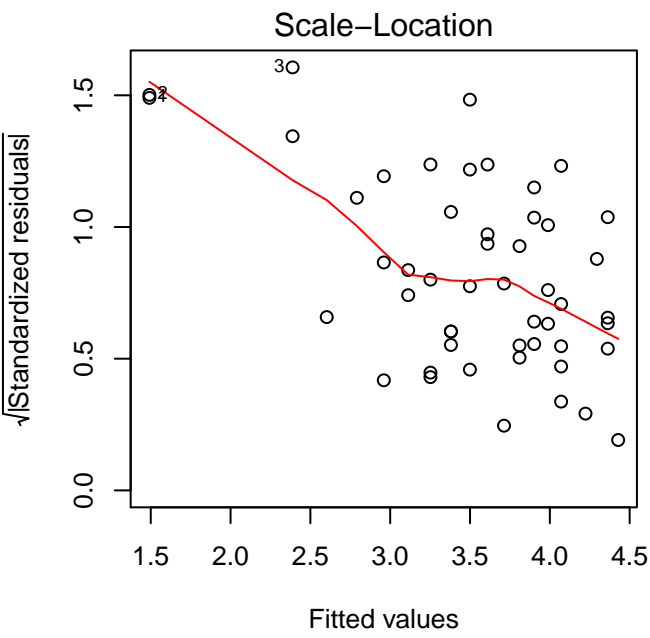
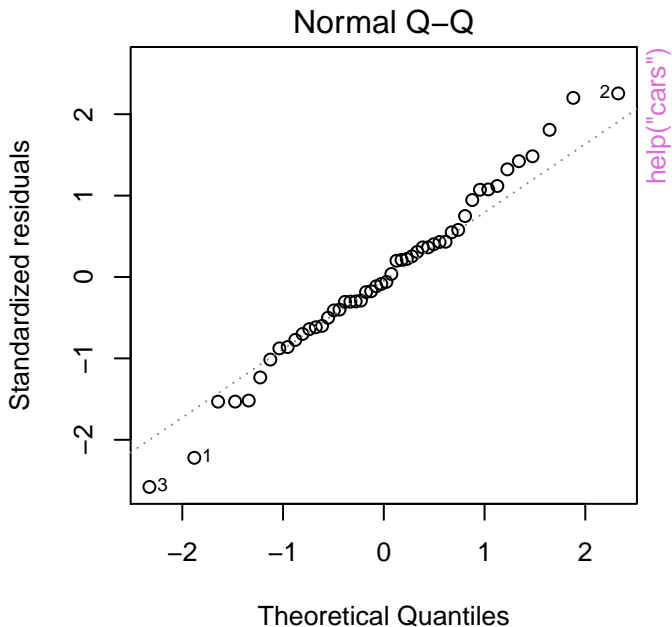
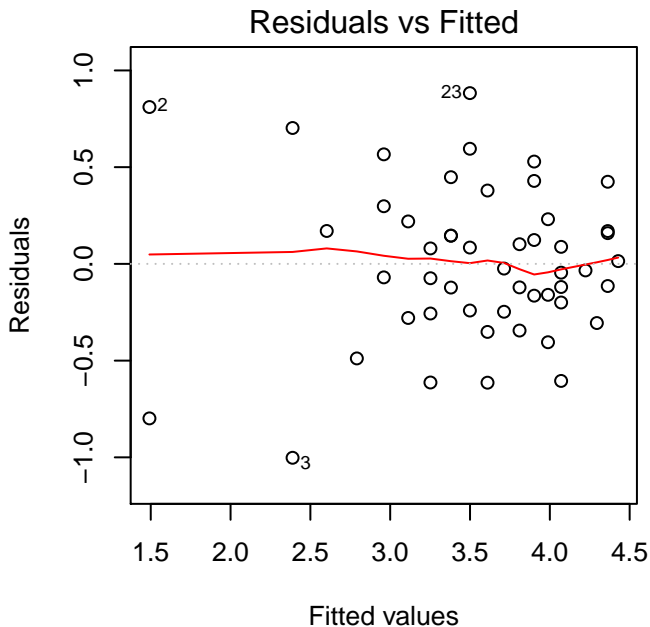


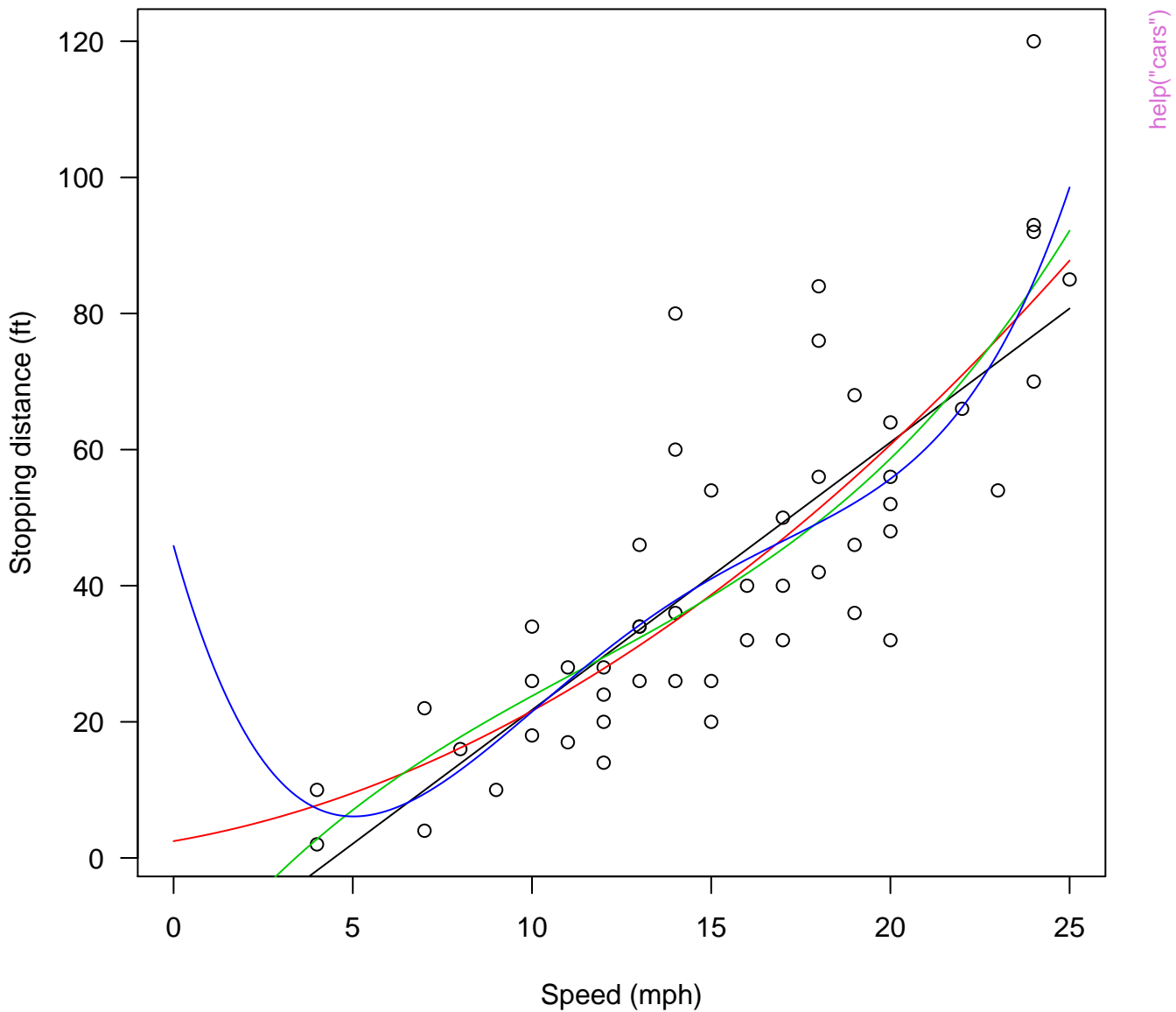


**cars data (logarithmic scales)**

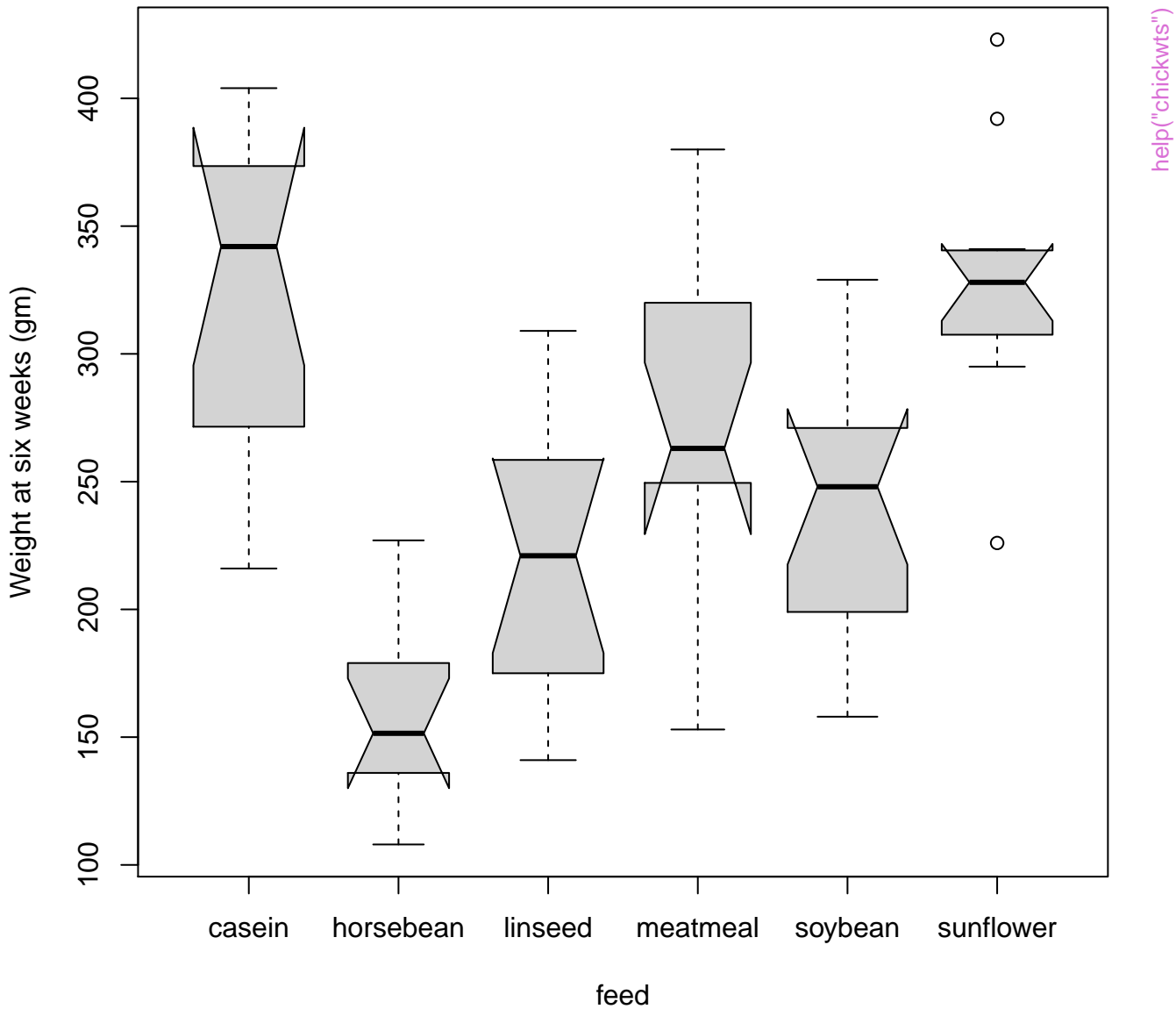


$$\ln(\log(\text{dist})) \sim \log(\text{speed})$$



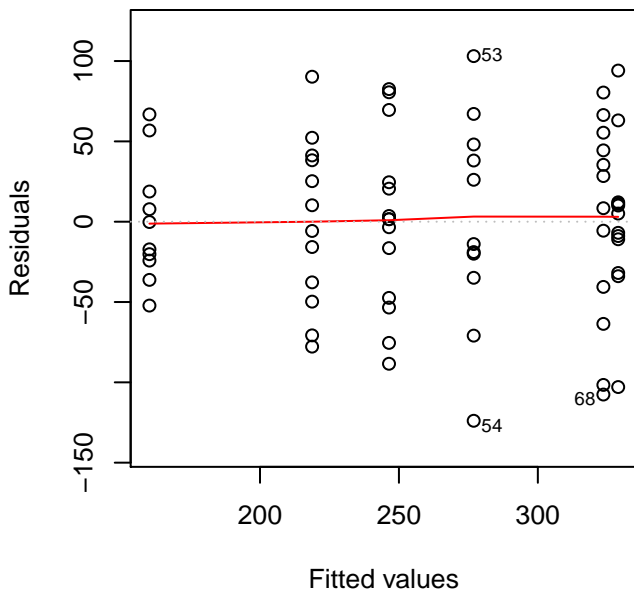


## chickwt data

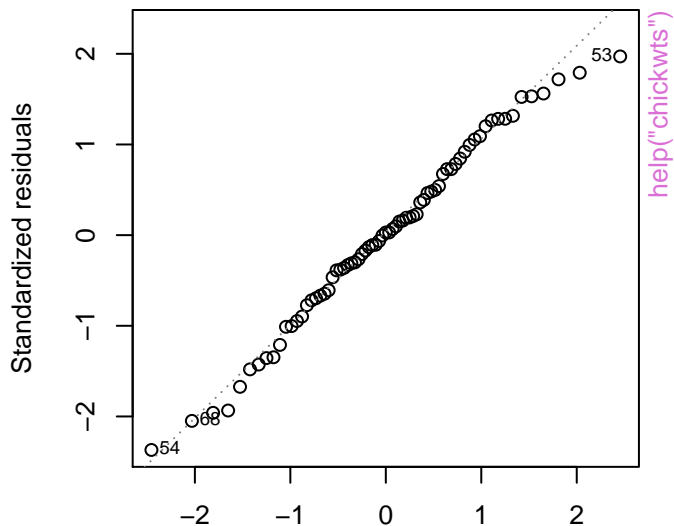


lm(weight ~ feed)

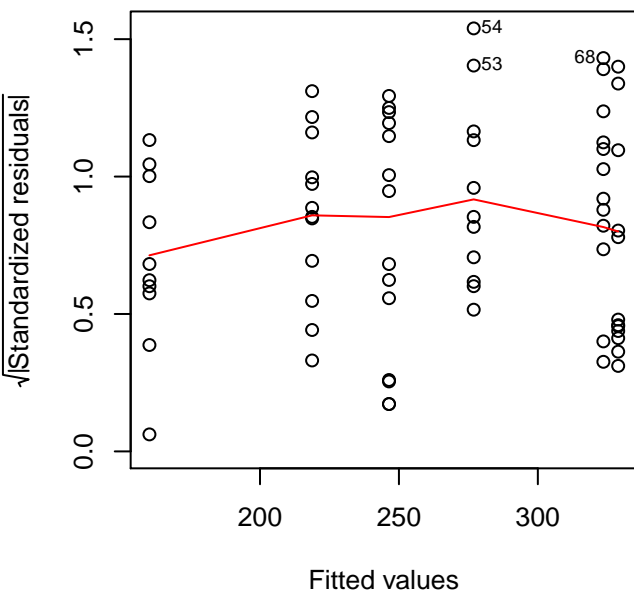
Residuals vs Fitted



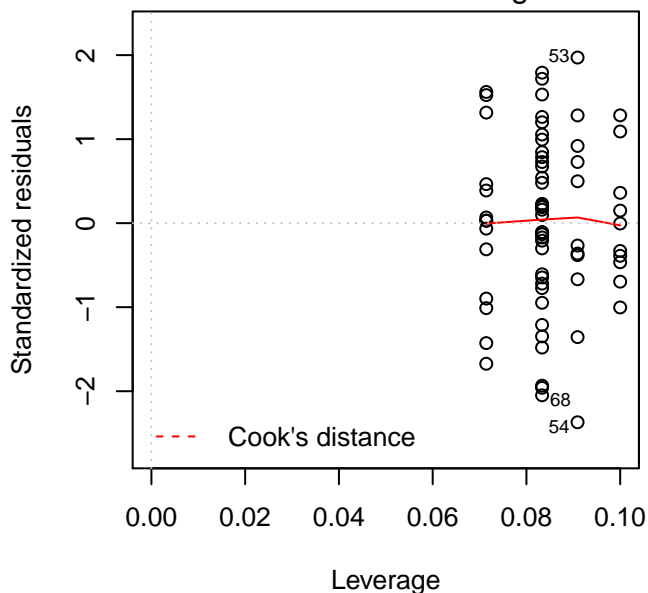
Normal Q-Q



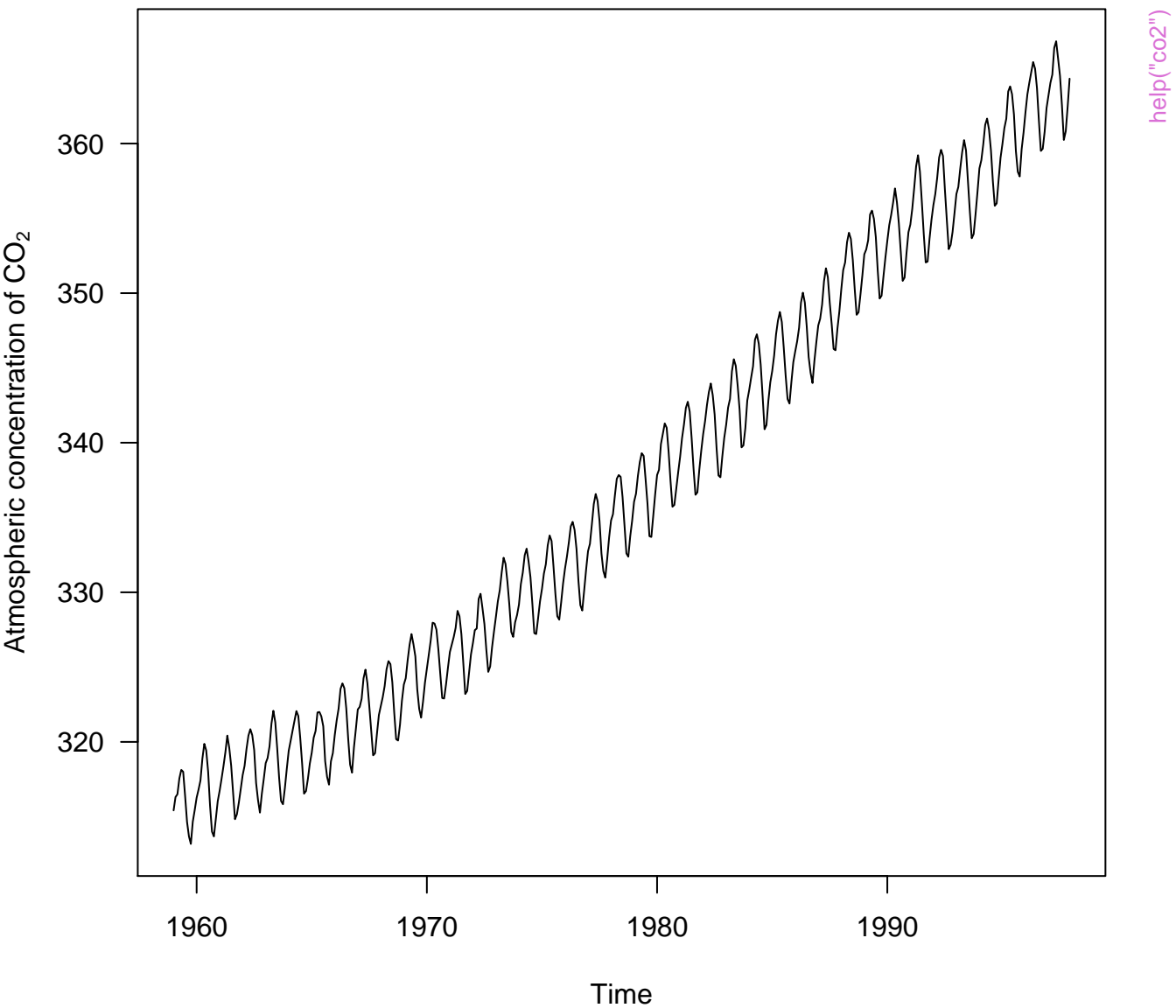
Scale-Location



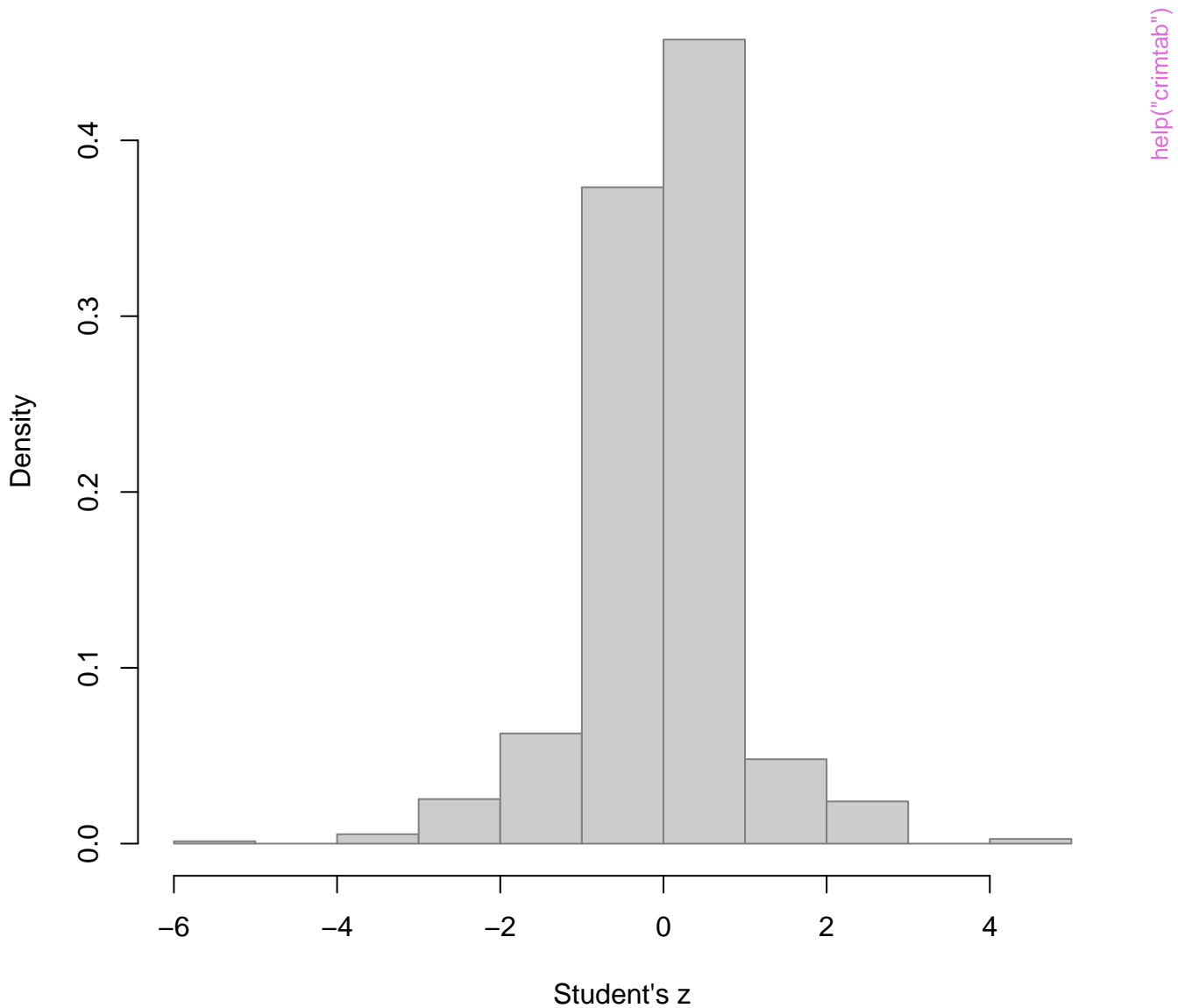
Residuals vs Leverage



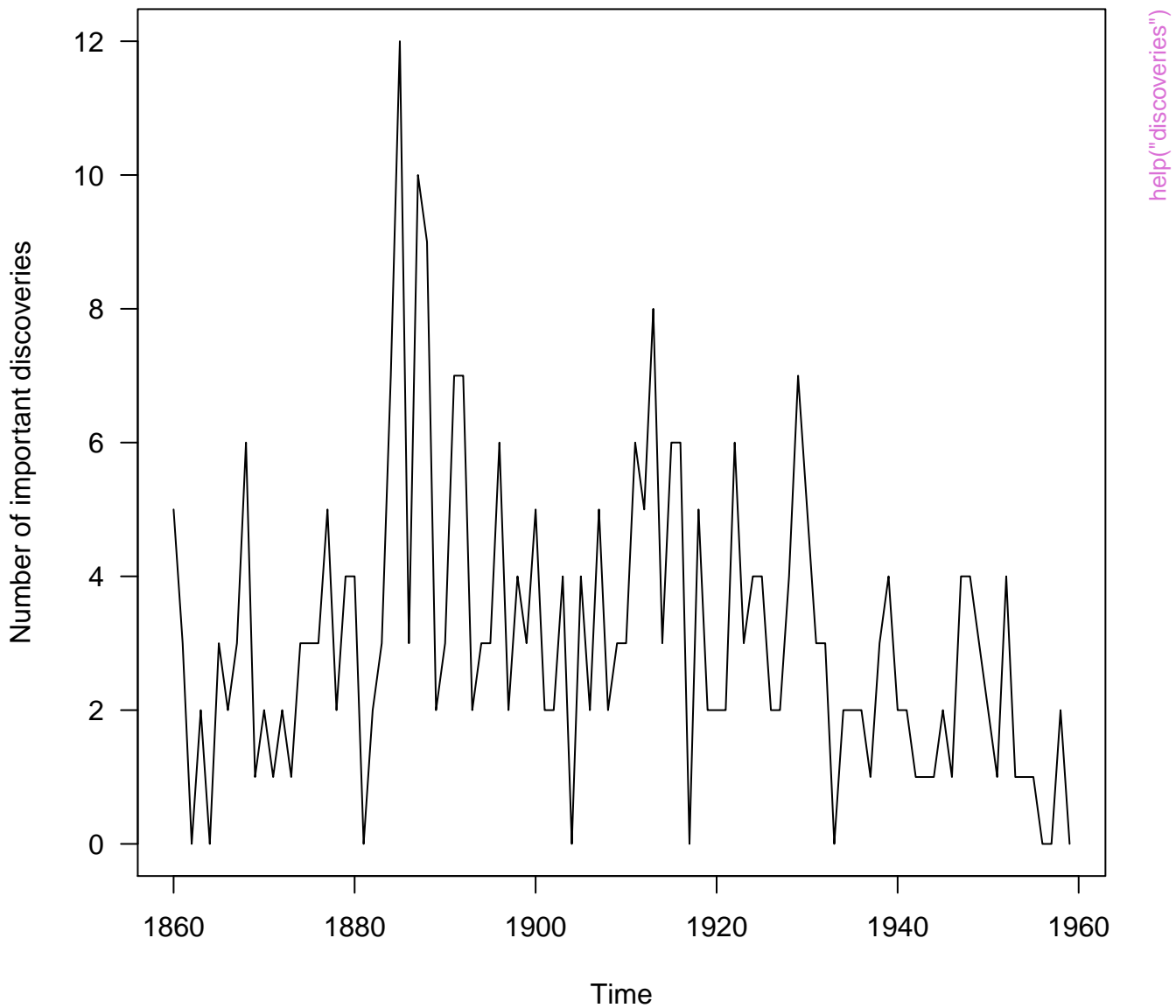
**co2 data set**



# Distribution of Student's z score for 'crimtab' data

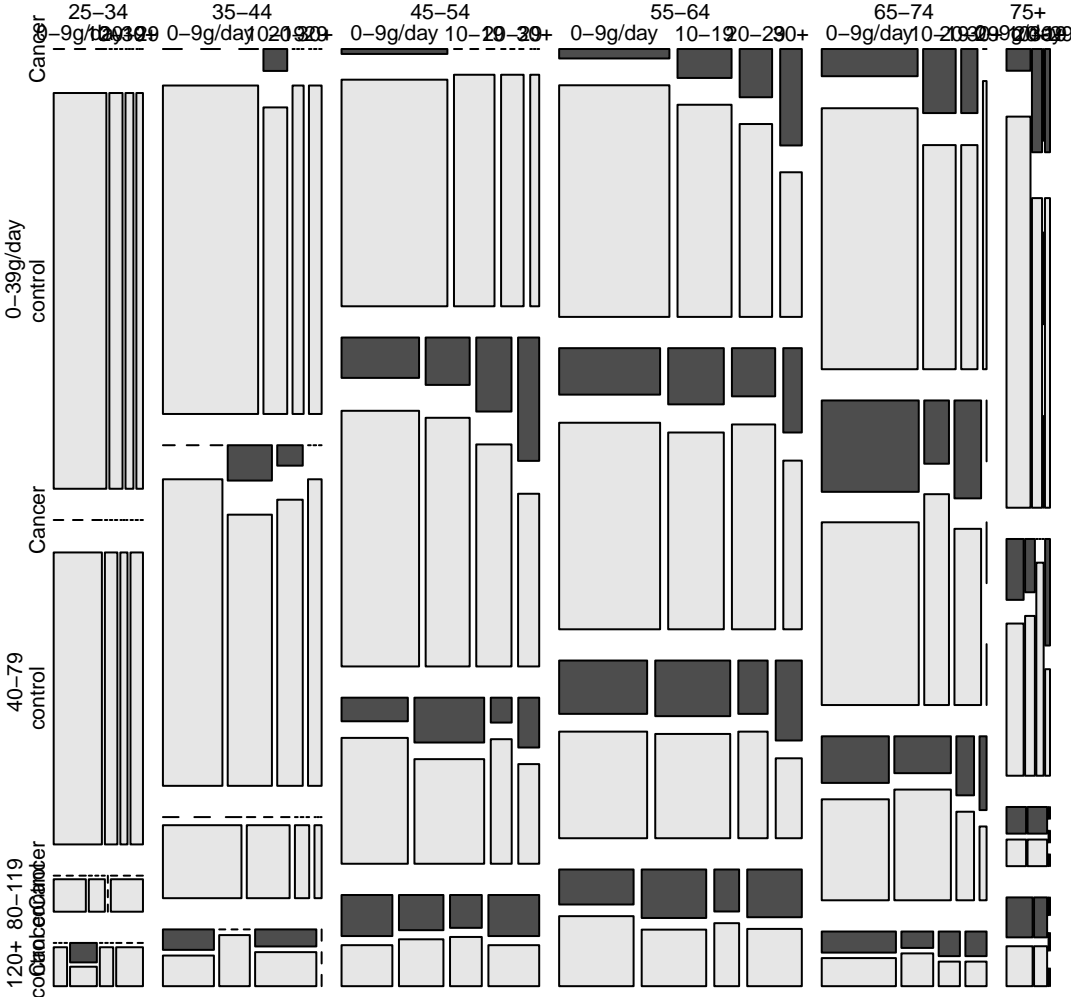


# discoveries data set



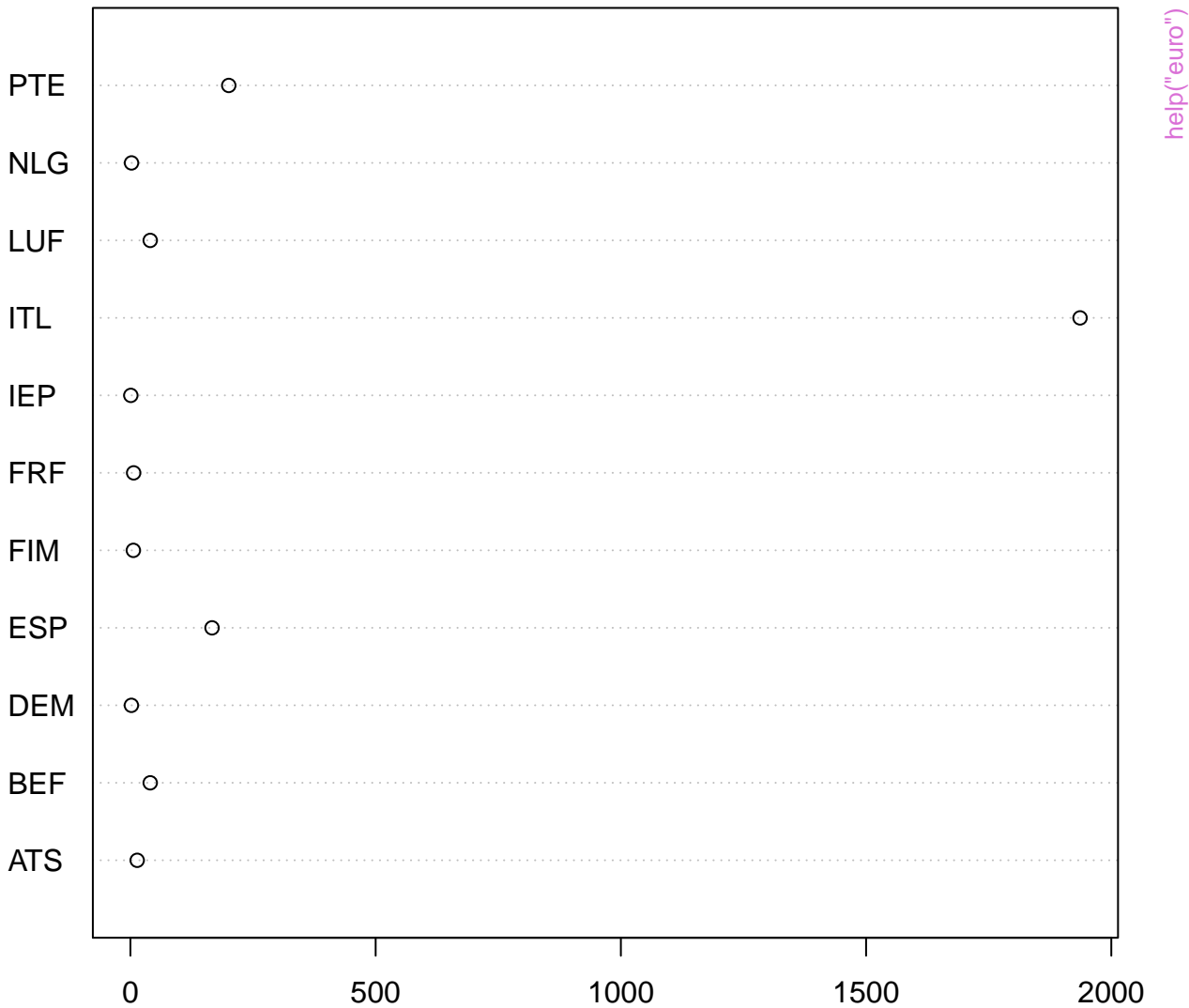


esoph data set

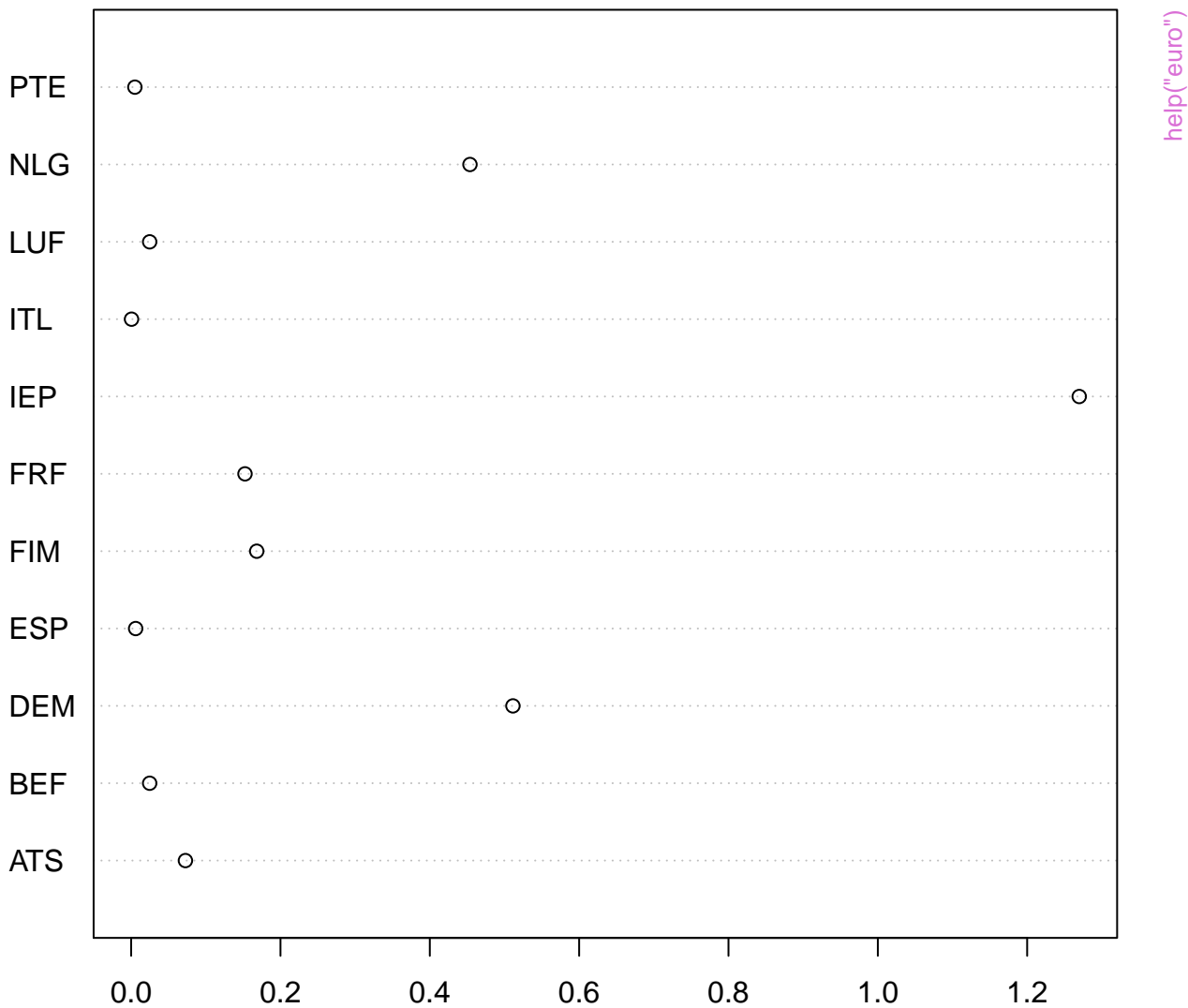


help("esoph")

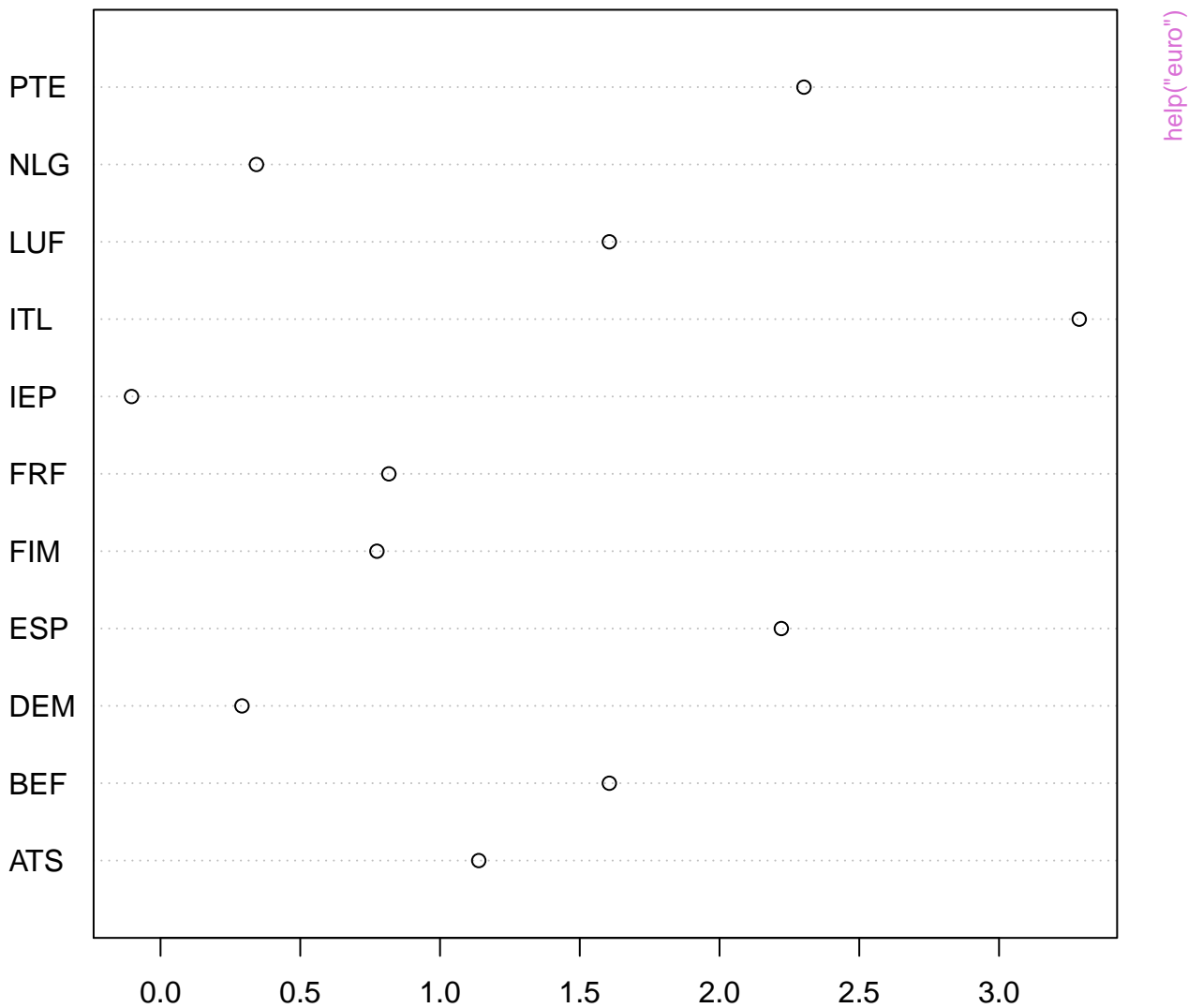
## euro data: 1 Euro in currency unit



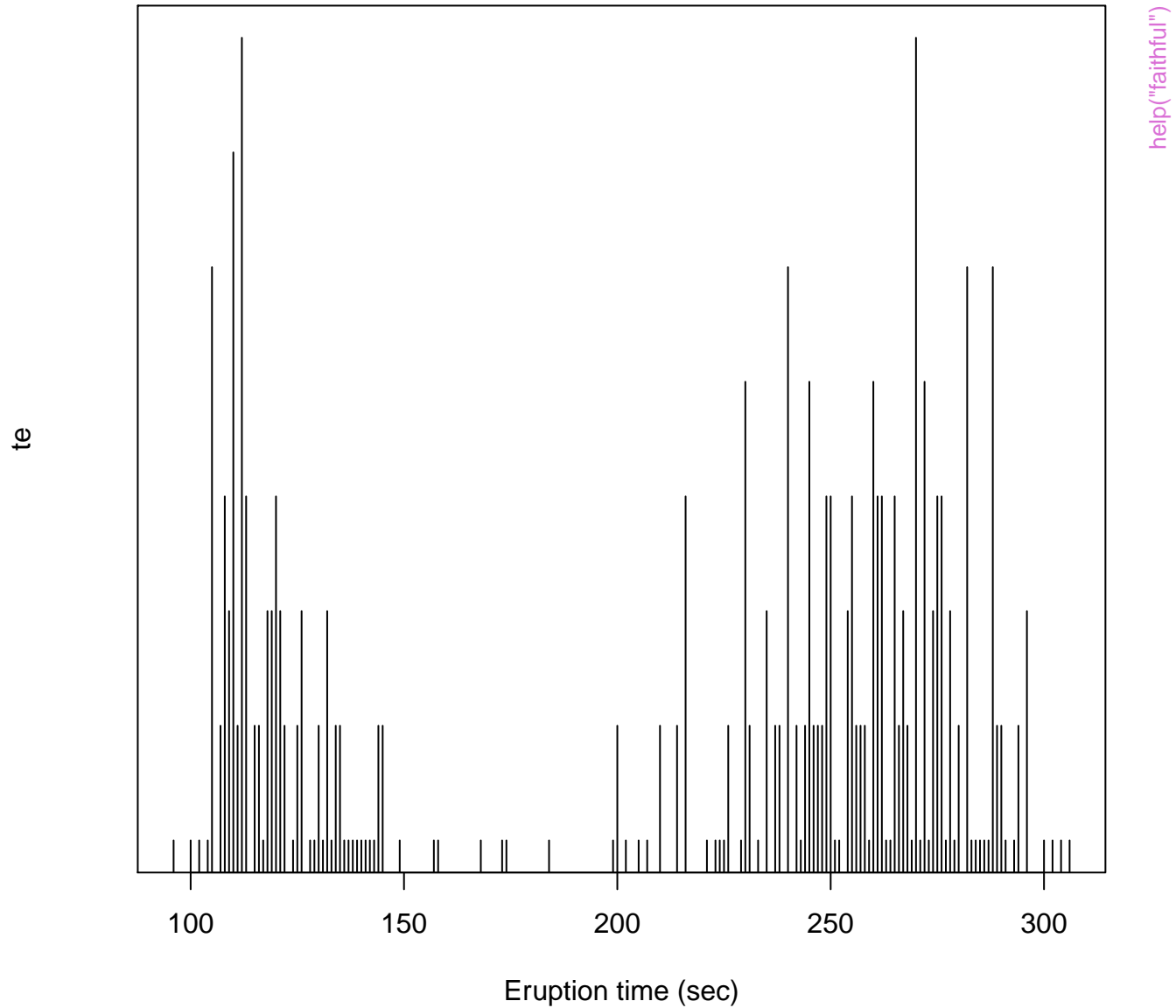
## euro data: 1 currency unit in Euros



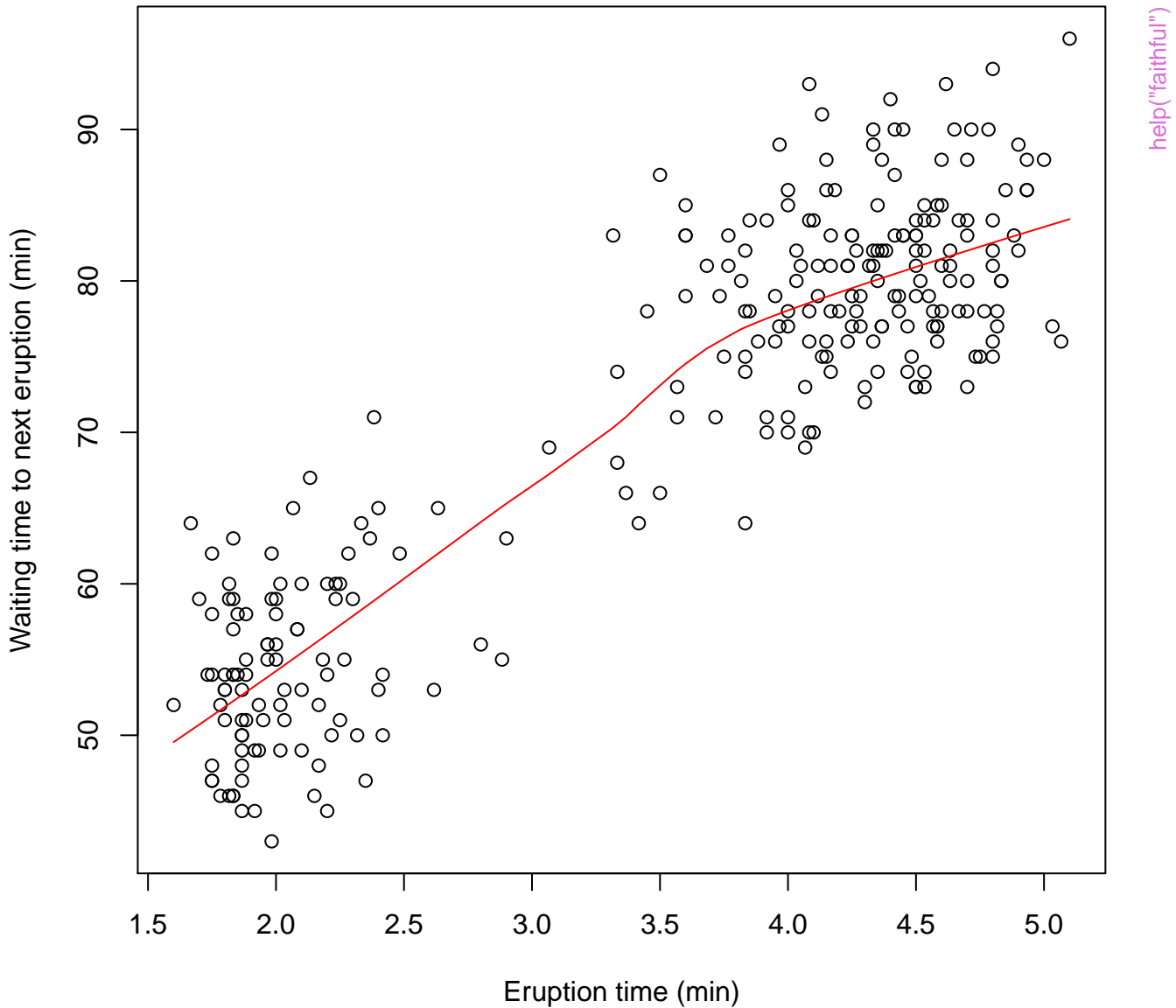
euro data: log<sub>10</sub>(1 Euro in currency unit)



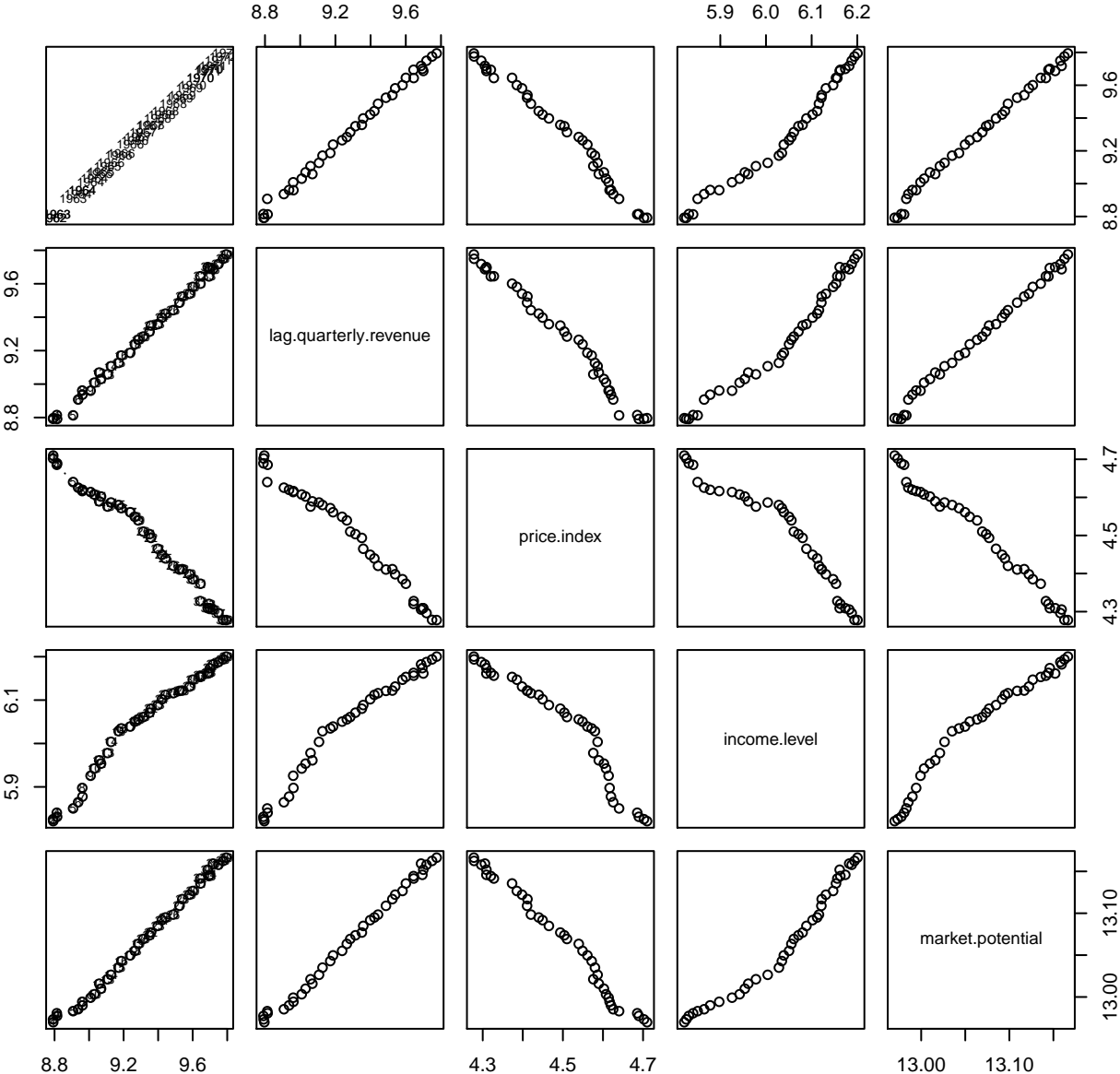
# faithful data: Eruptions of Old Faithful



## faithful data: Eruptions of Old Faithful

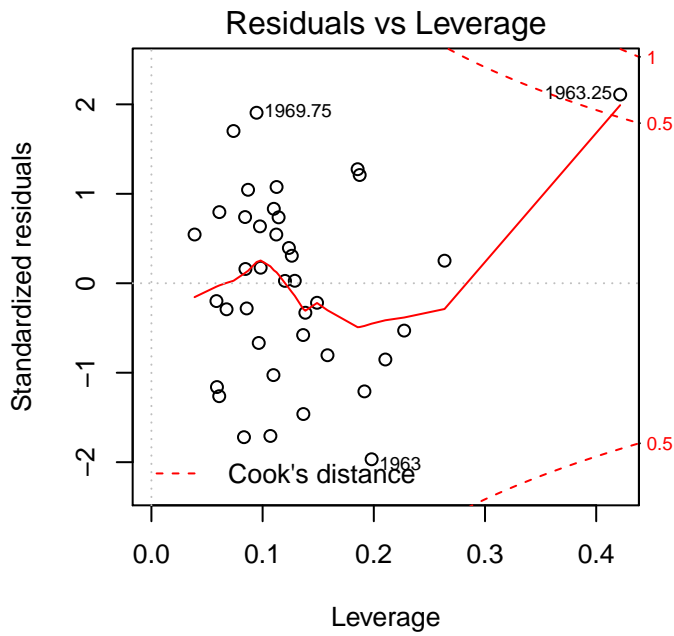
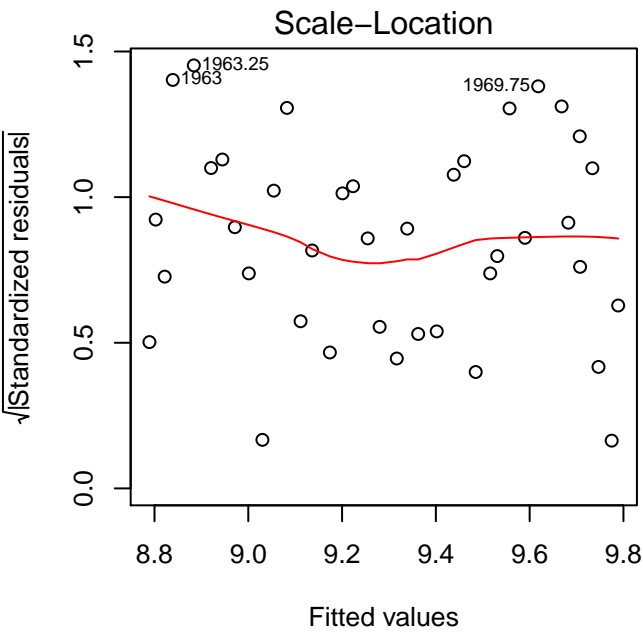
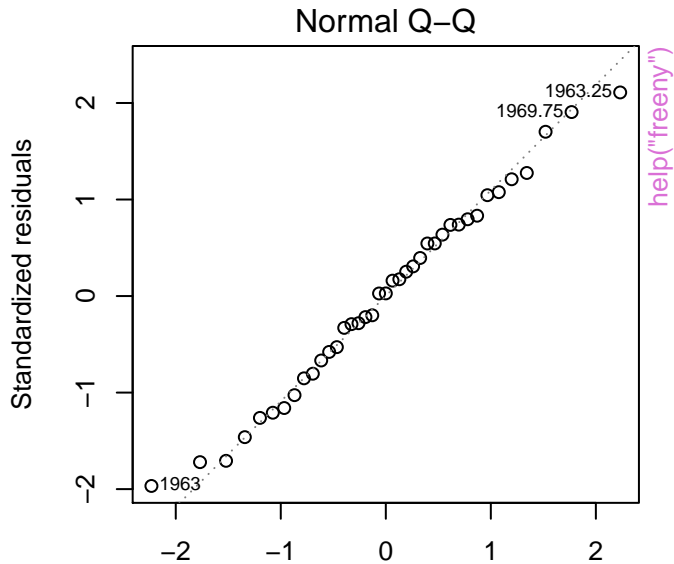
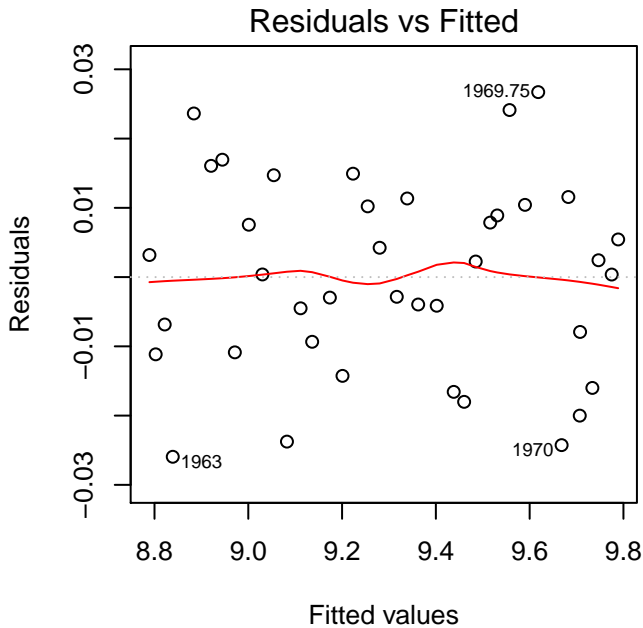


freeny data



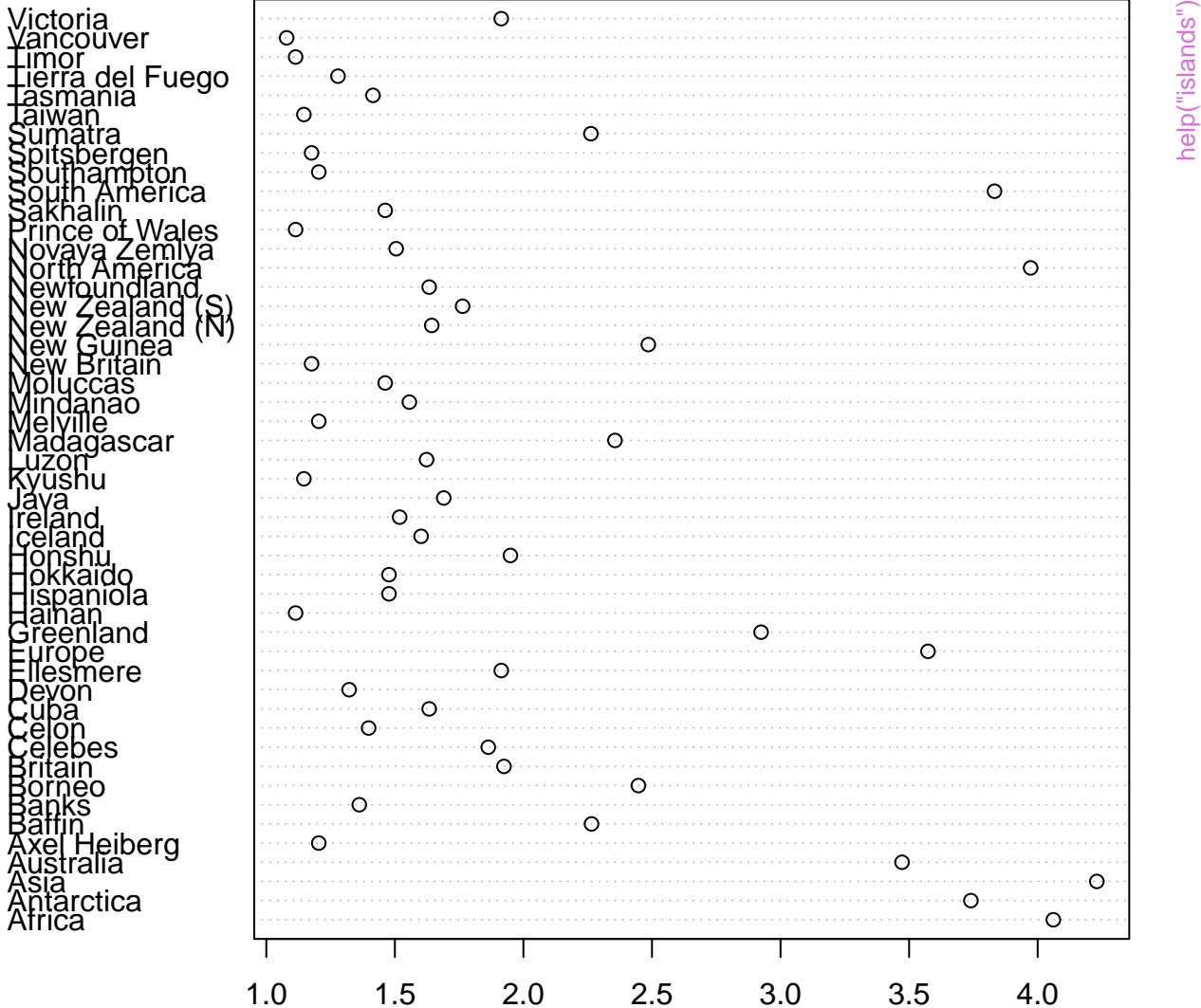
help("freeny")

$\text{lm}(y \sim .)$



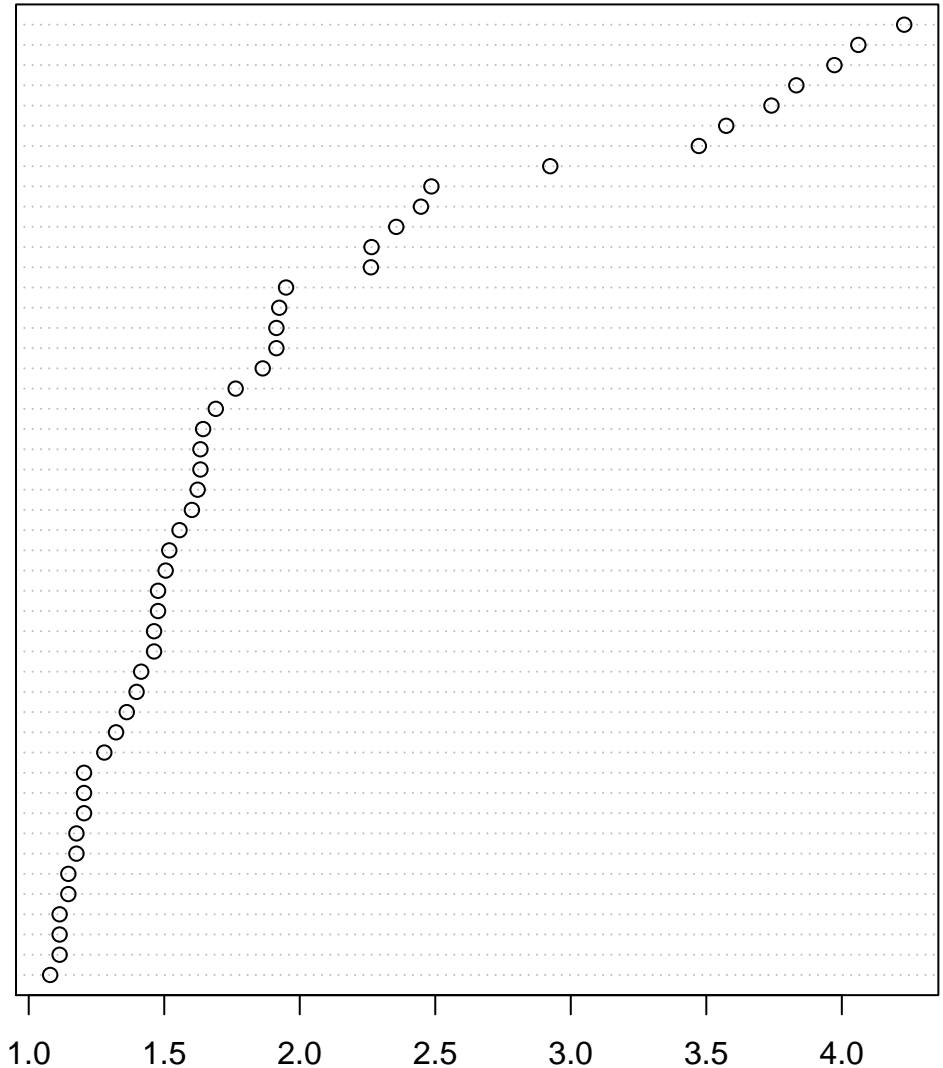


islands data: log10(area) (log10(sq. miles))



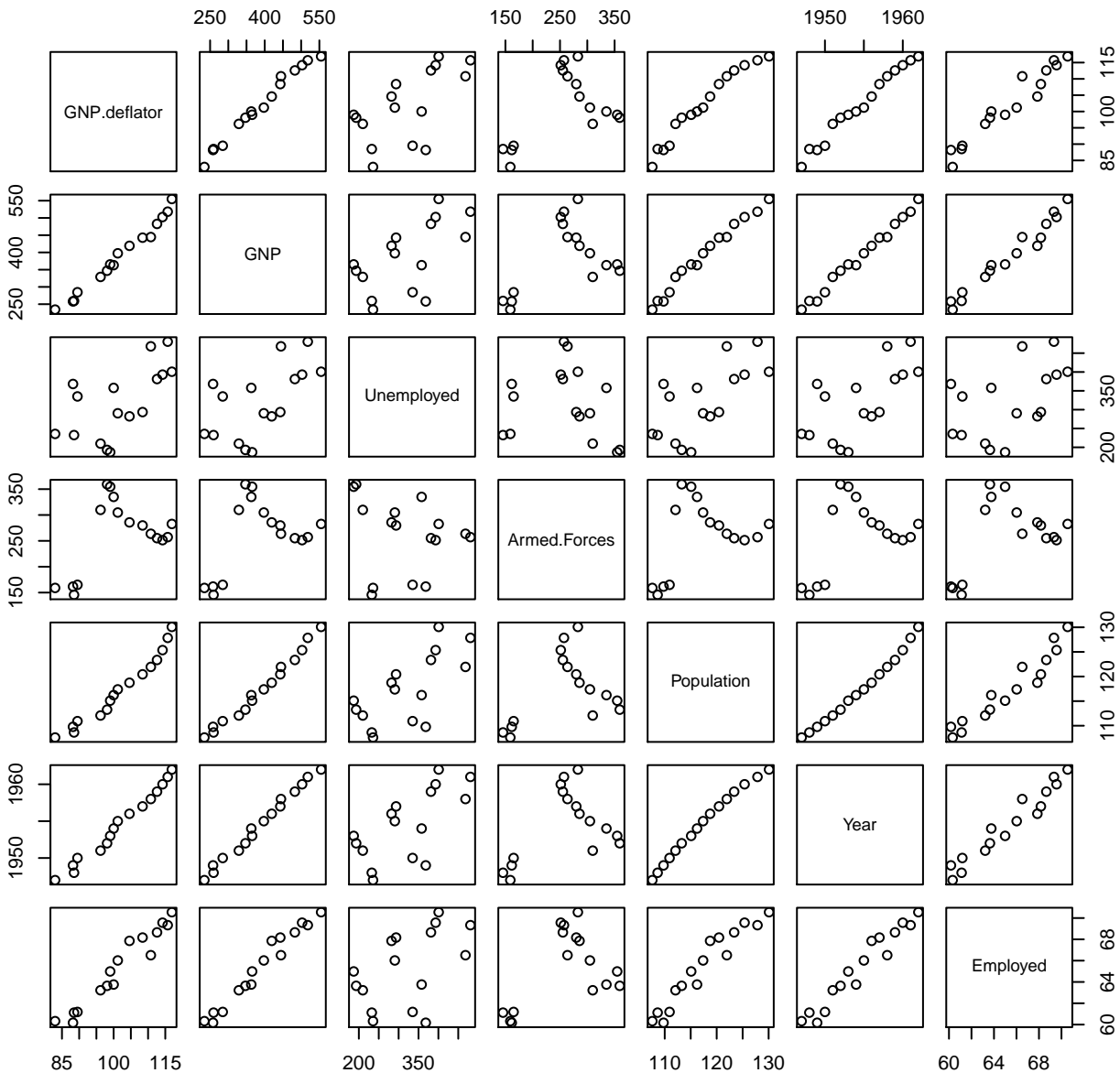
islands data: log10(area) (log10(sq. miles))

Asia  
Africa  
North America  
South America  
Antarctica  
Europe  
Australia  
Greenland  
New Guinea  
Borneo  
Madagascar  
Barfin  
Sumatra  
Honshu  
Britain  
Victoria  
Ellesmere  
Celebes  
New Zealand (S)  
Java  
New Zealand (N)  
Newfoundland  
Cuba  
Luzon  
Iceland  
Mindanao  
Ireland  
Novaya Zemlya  
Hokkaido  
Hispaniola  
Sakhalin  
Moluccas  
Tasmania  
Celon  
Banks  
Devon  
Tierra del Fuego  
Southampton  
Melville  
Axel Heiberg  
Spitsbergen  
New Britain  
Taiwan  
Kyushu  
Timor  
Prince of Wales  
Hainan  
Vancouver



help("islands")

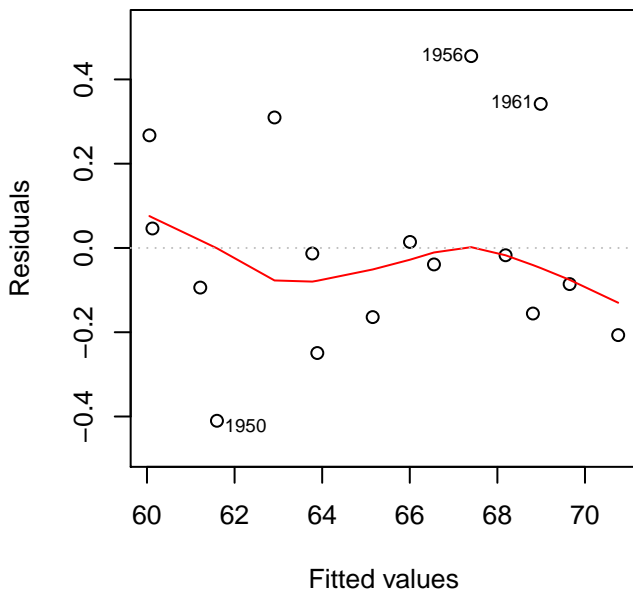
# longley data



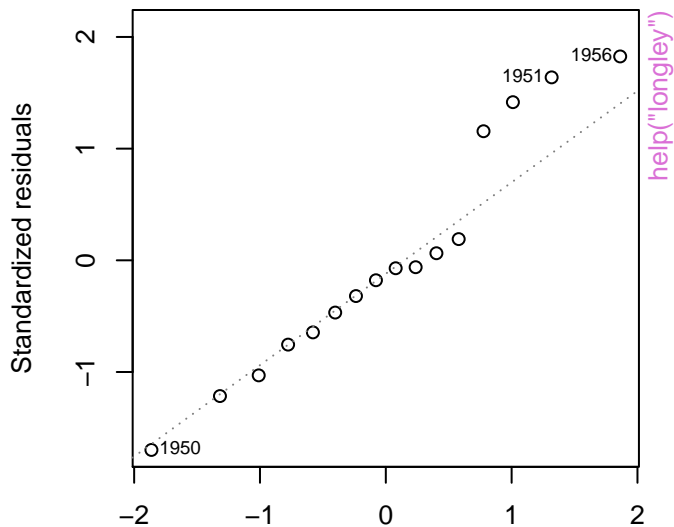
help("longley")

lm(Employed ~ .)

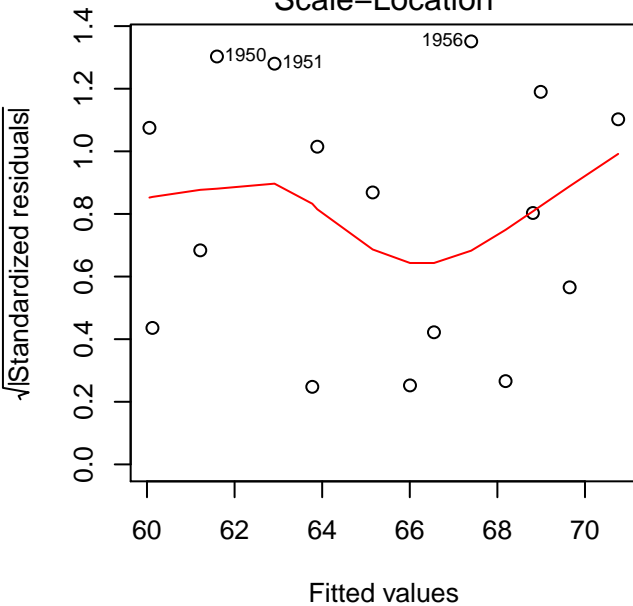
Residuals vs Fitted



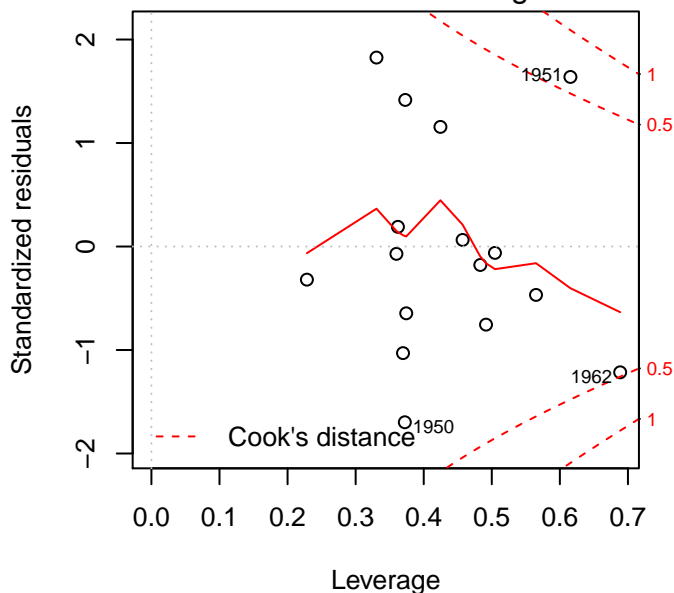
Normal Q-Q



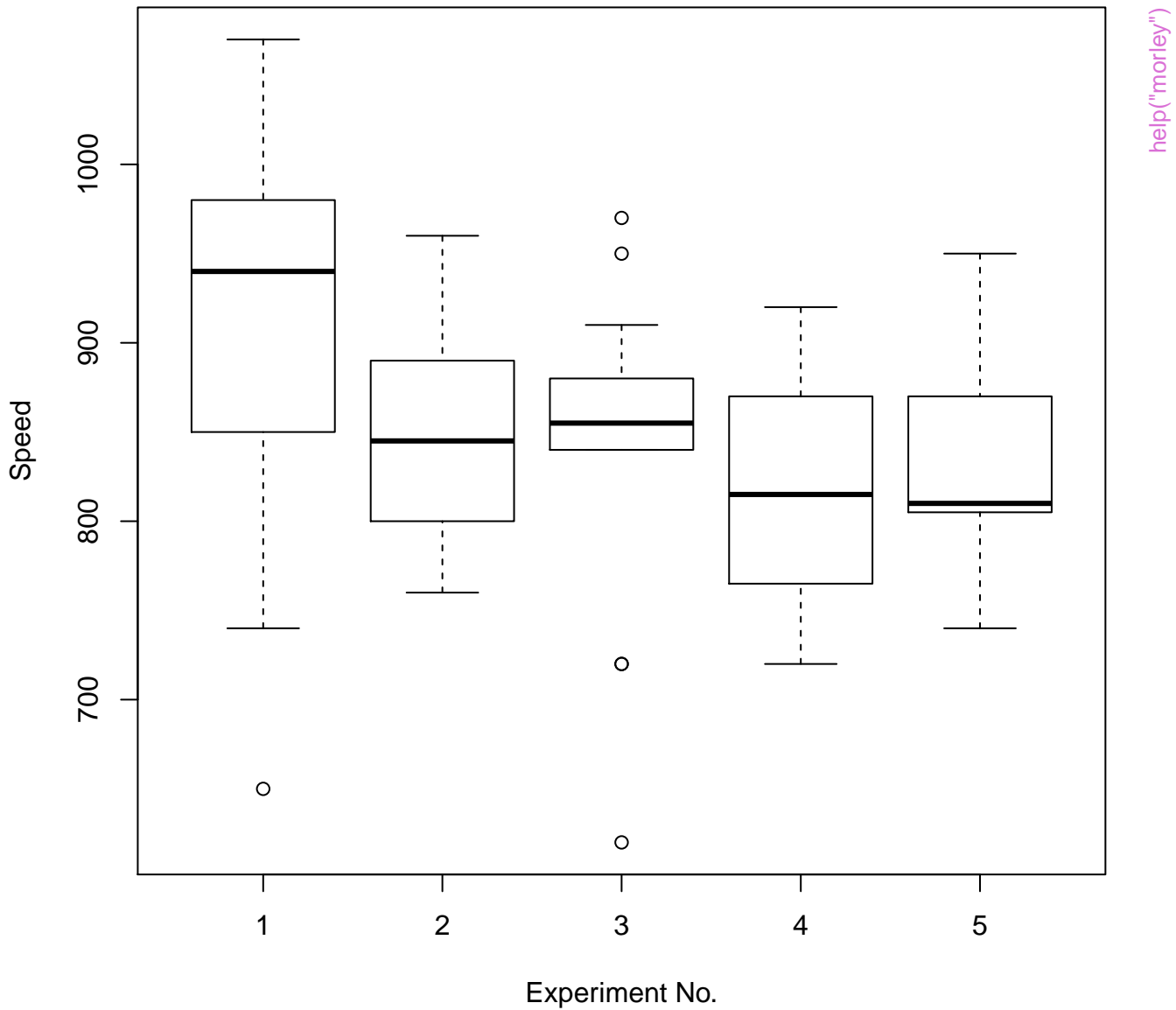
Scale-Location



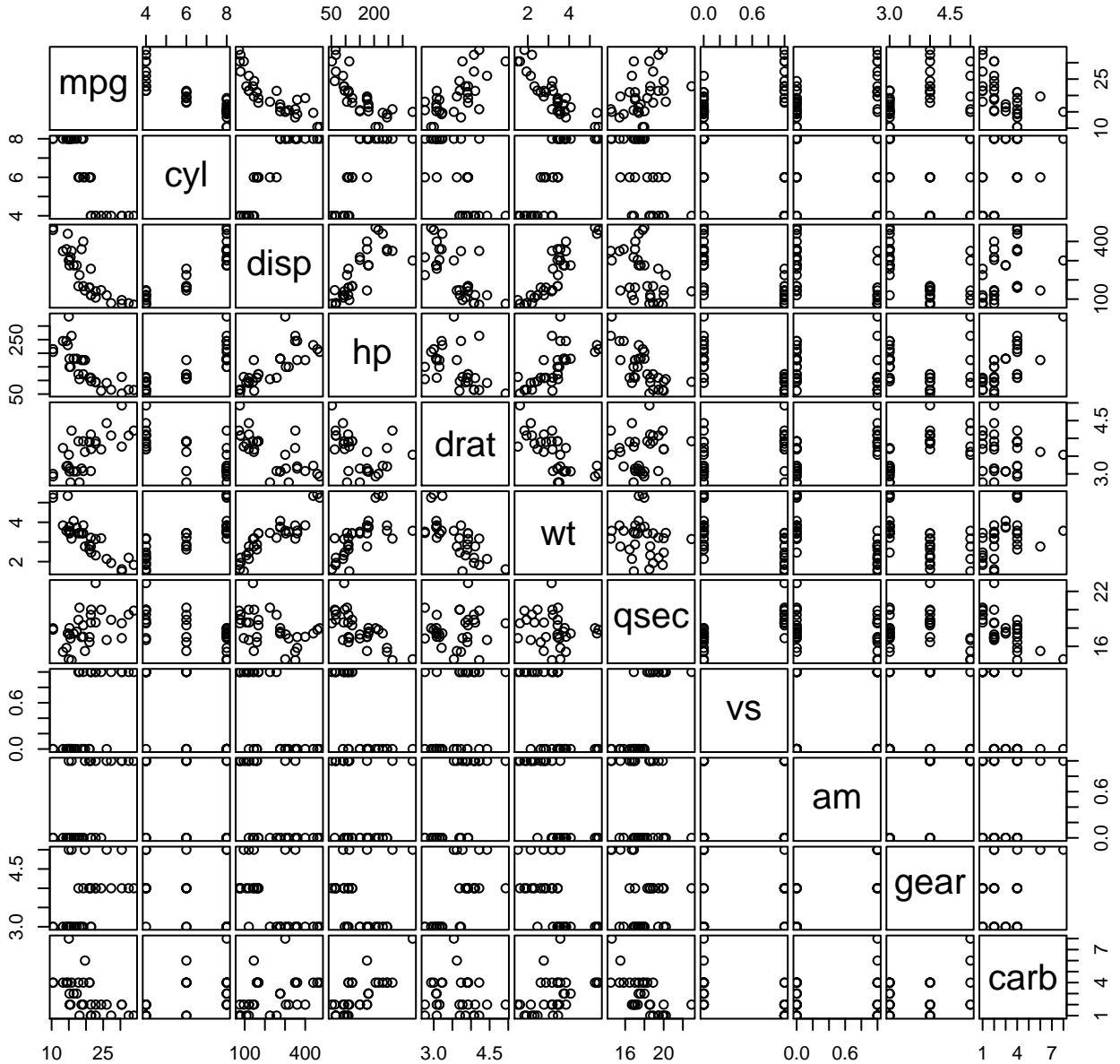
Residuals vs Leverage



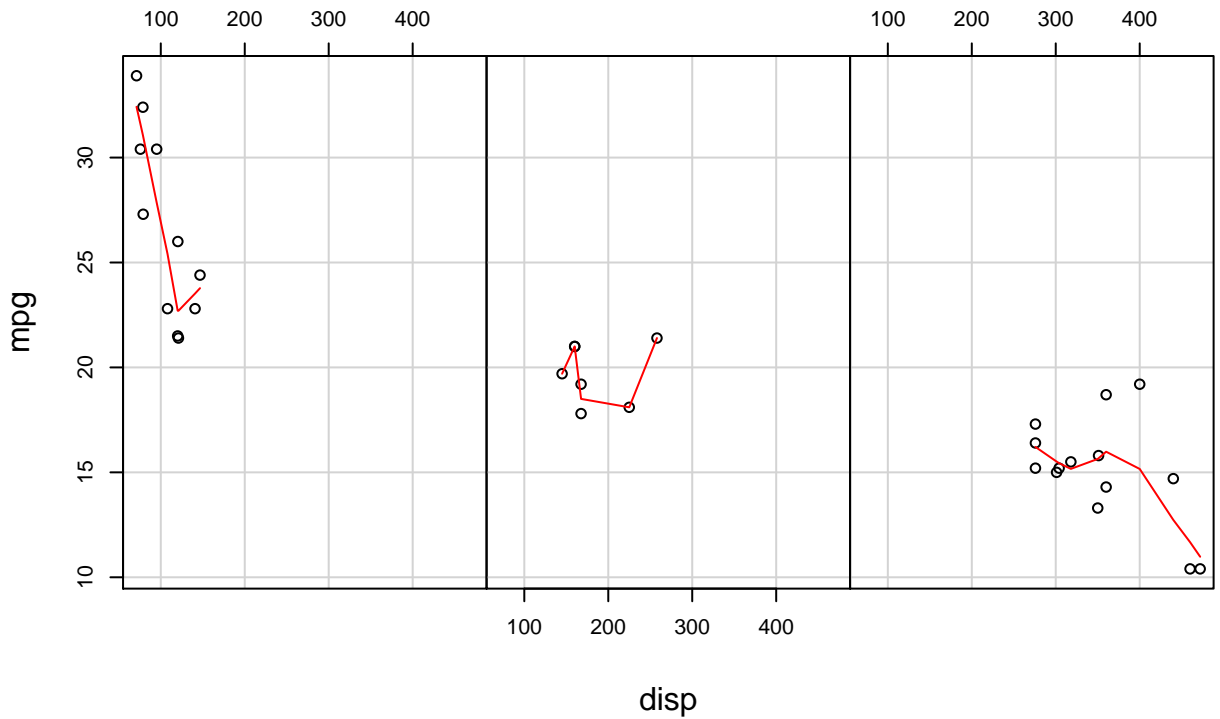
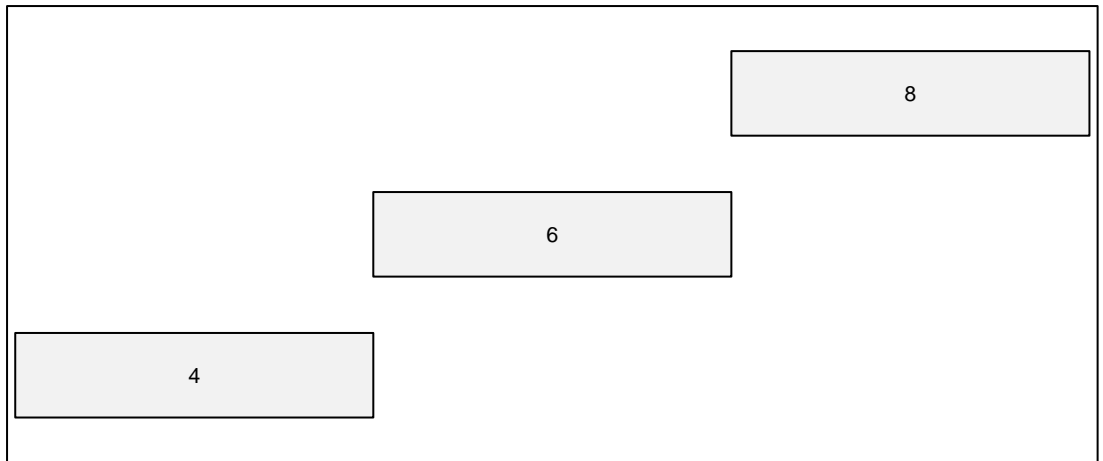
# Speed of Light Data



```
help("mtcars")
```

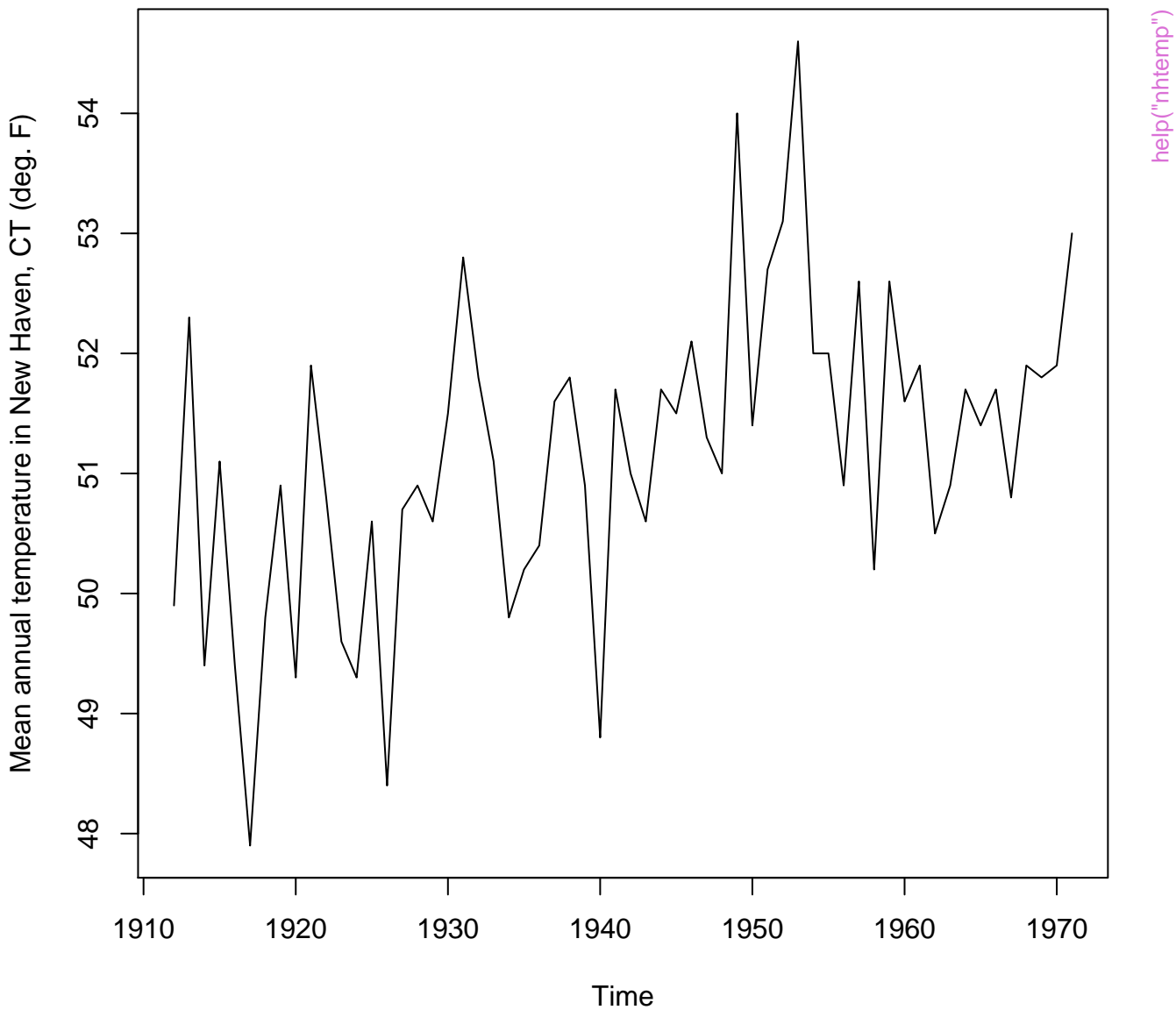


Given : as.factor(cyl)



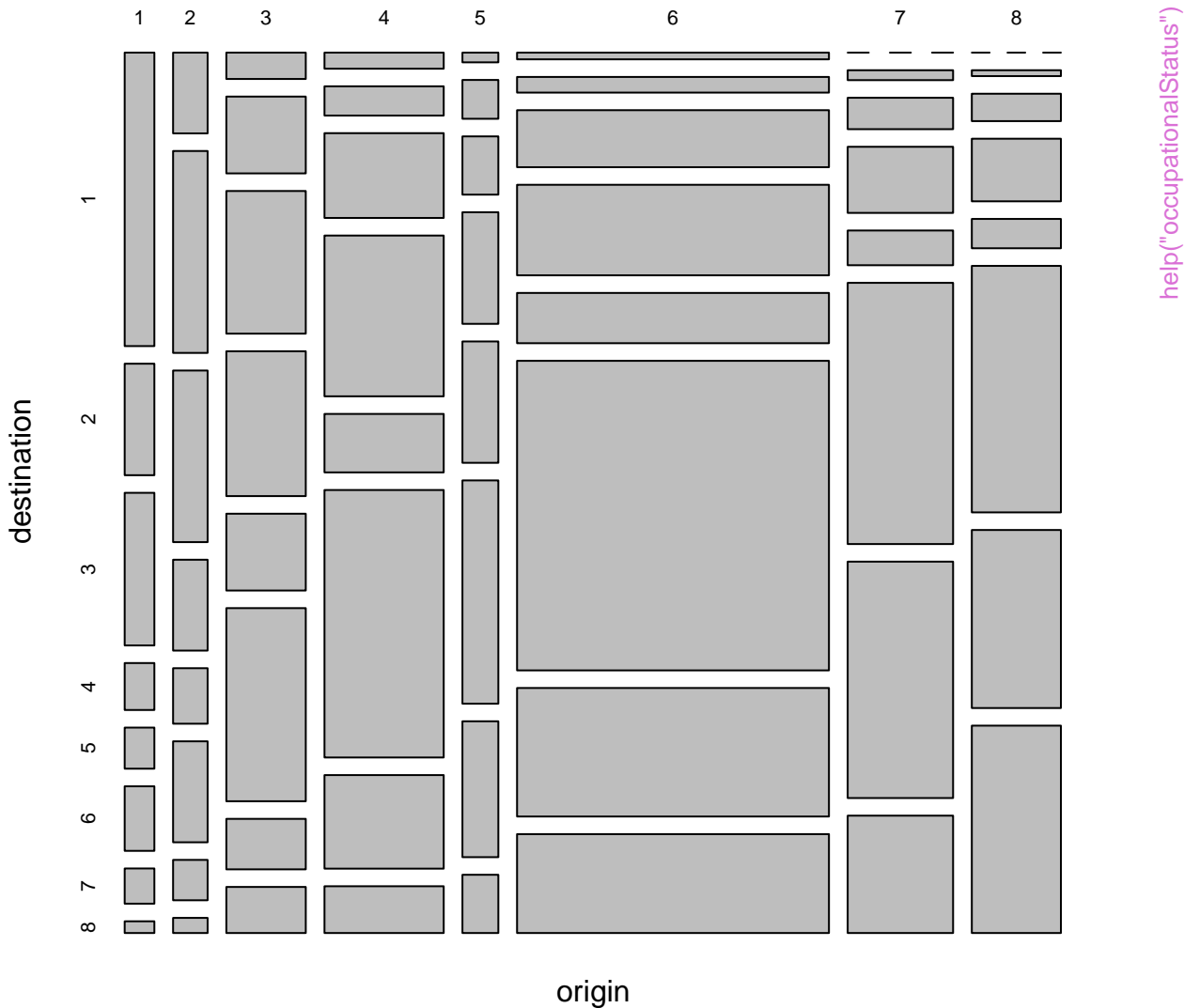
help("mtcars")

nhtemp data

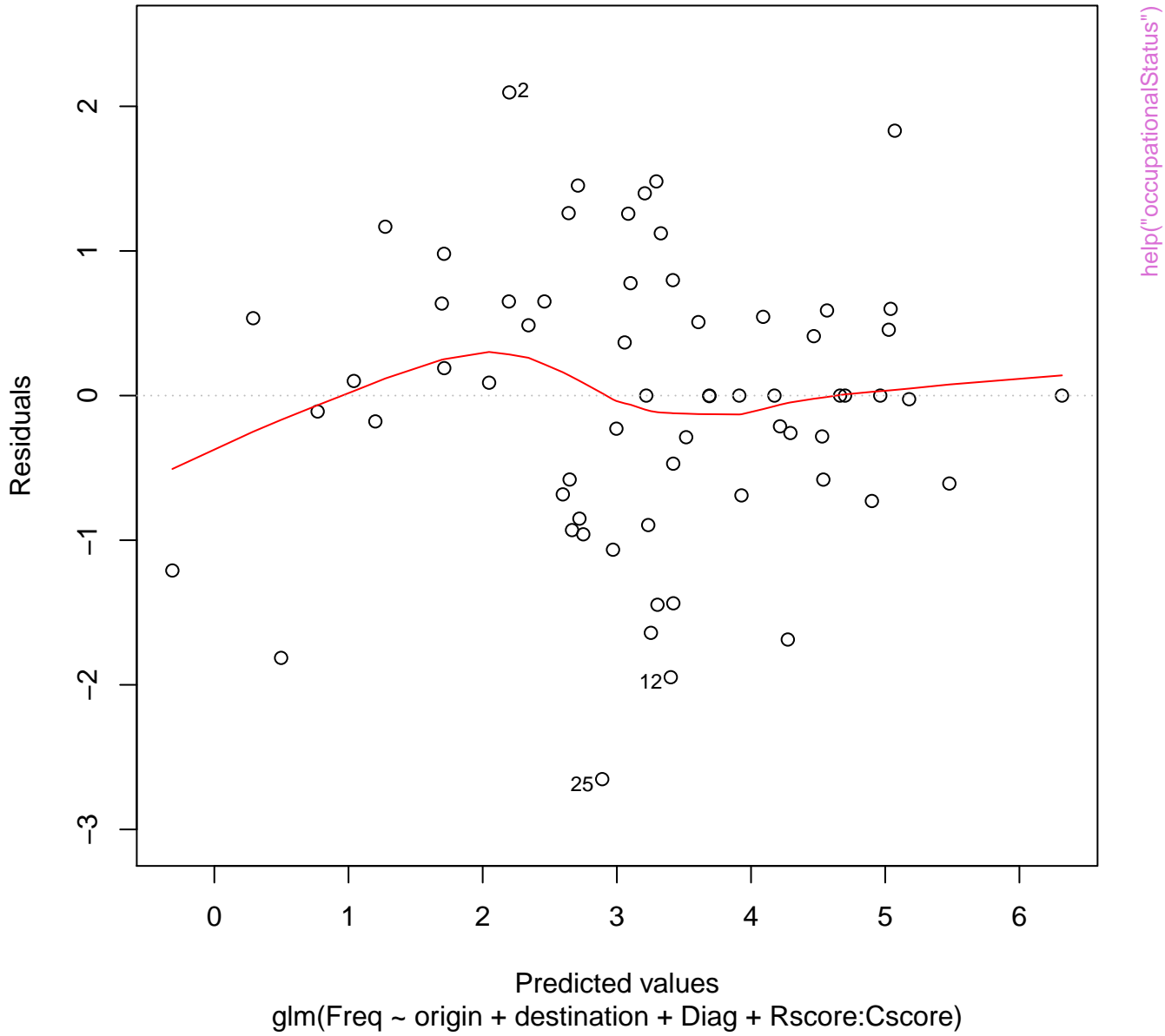




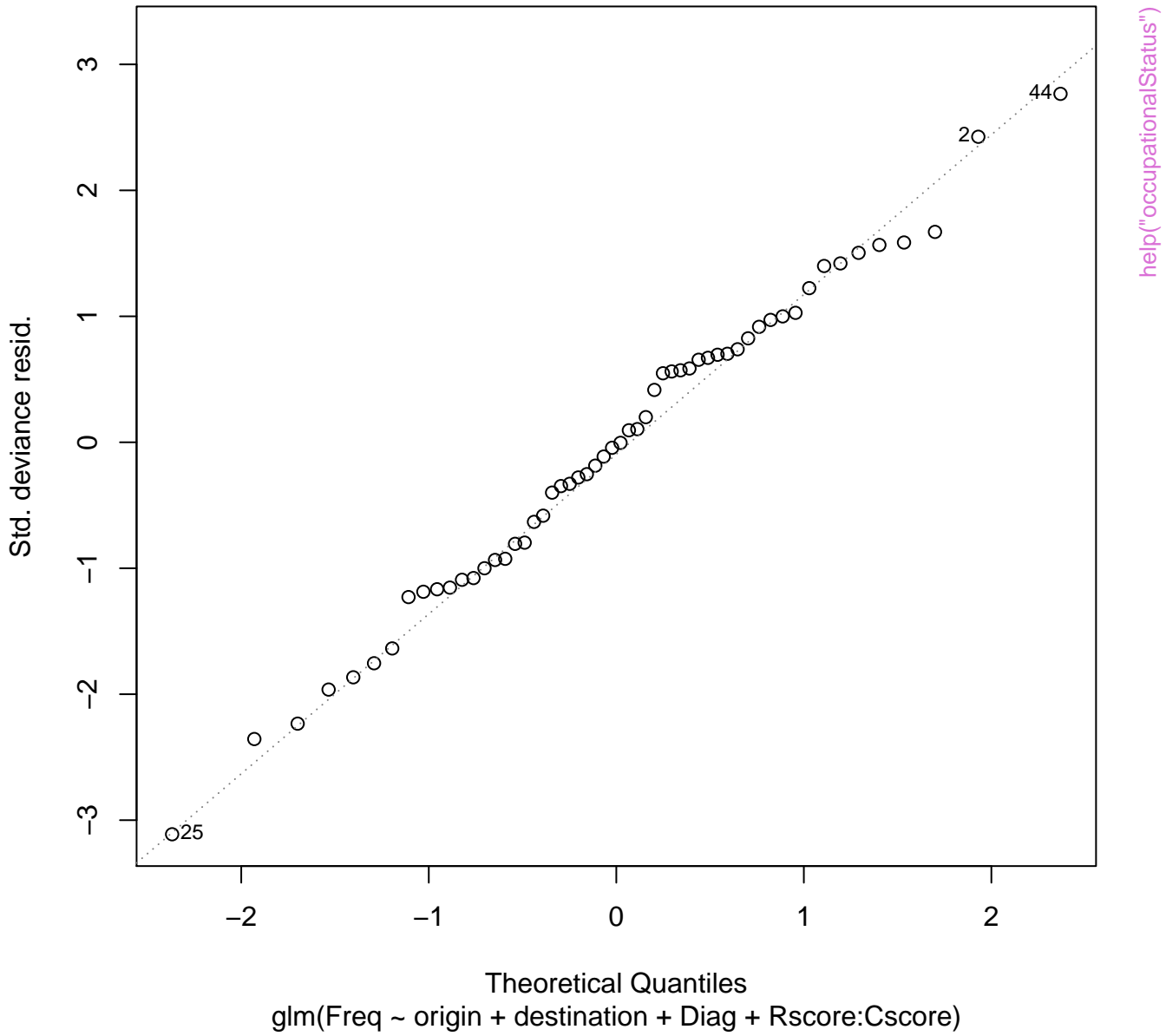
# occupationalStatus

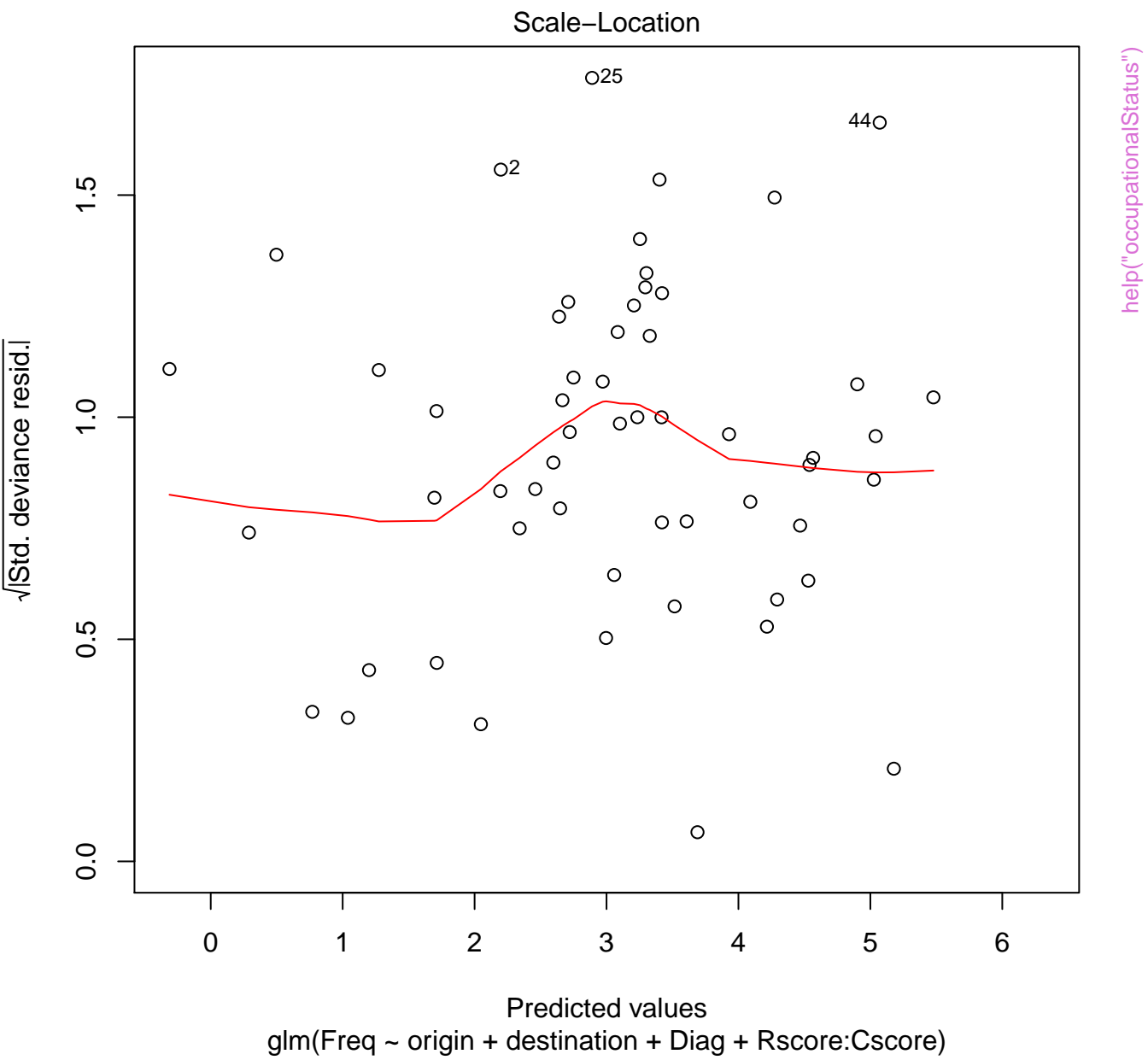


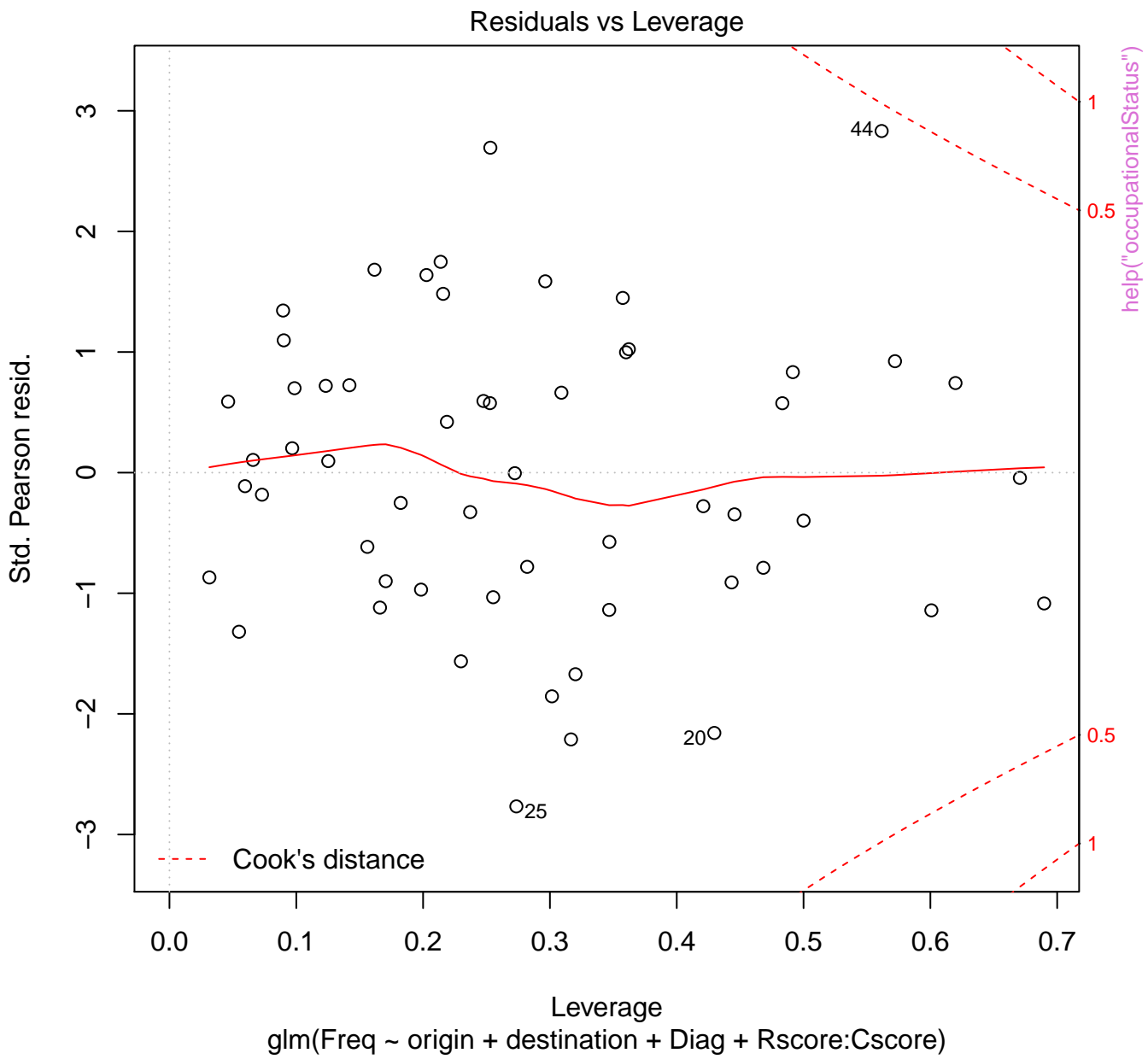
Residuals vs Fitted



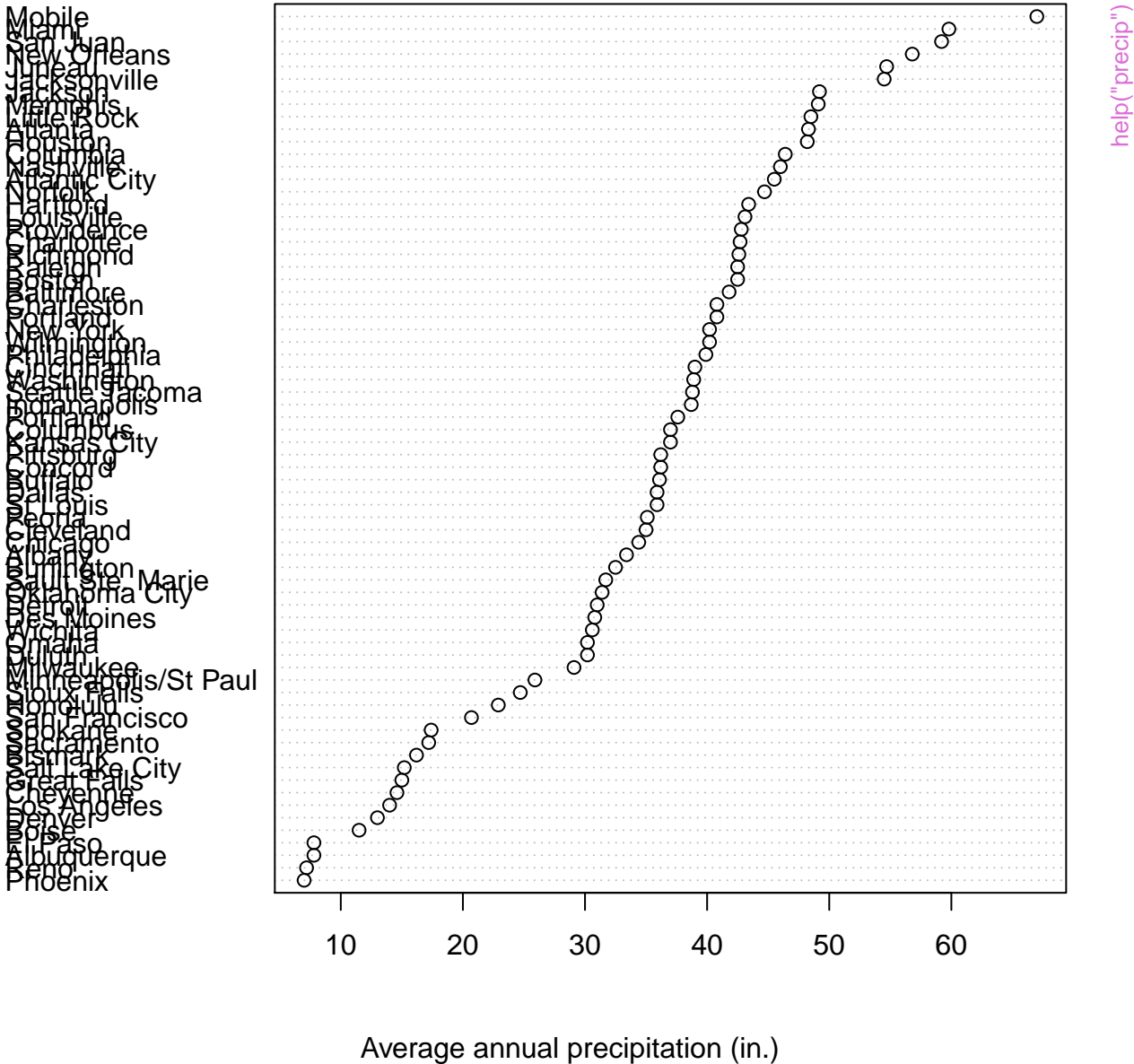
Normal Q-Q



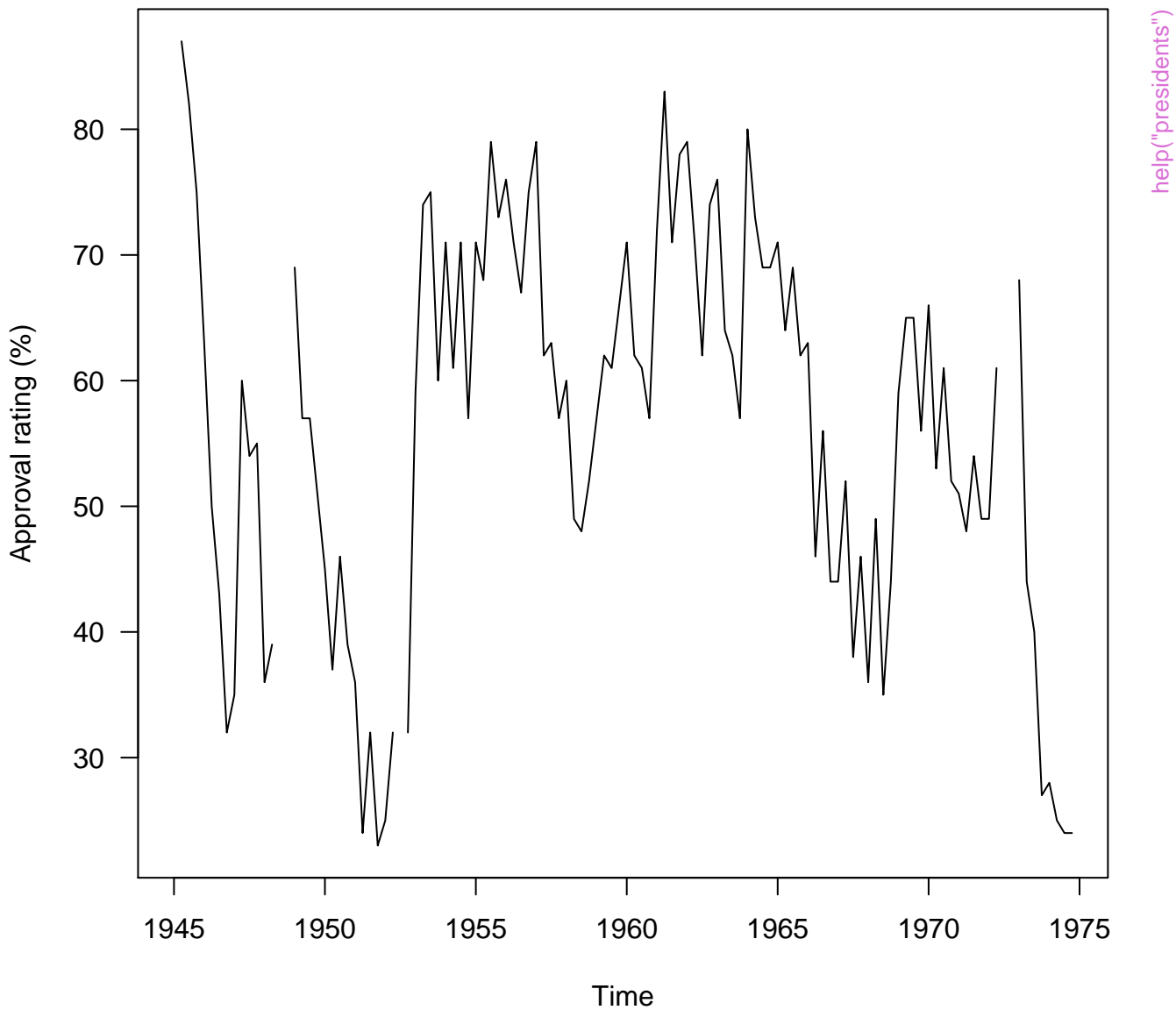




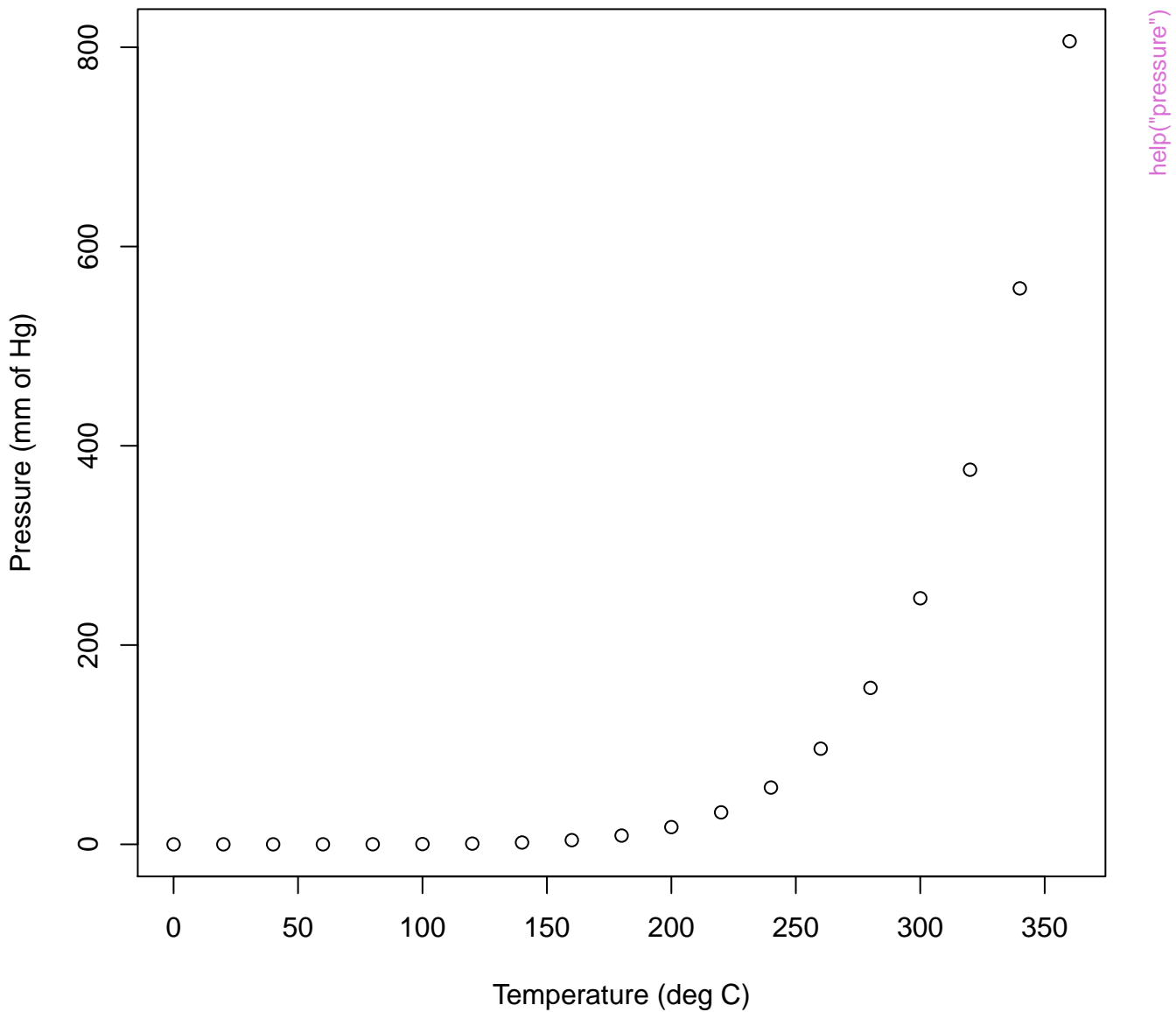
## precip data



# presidents data

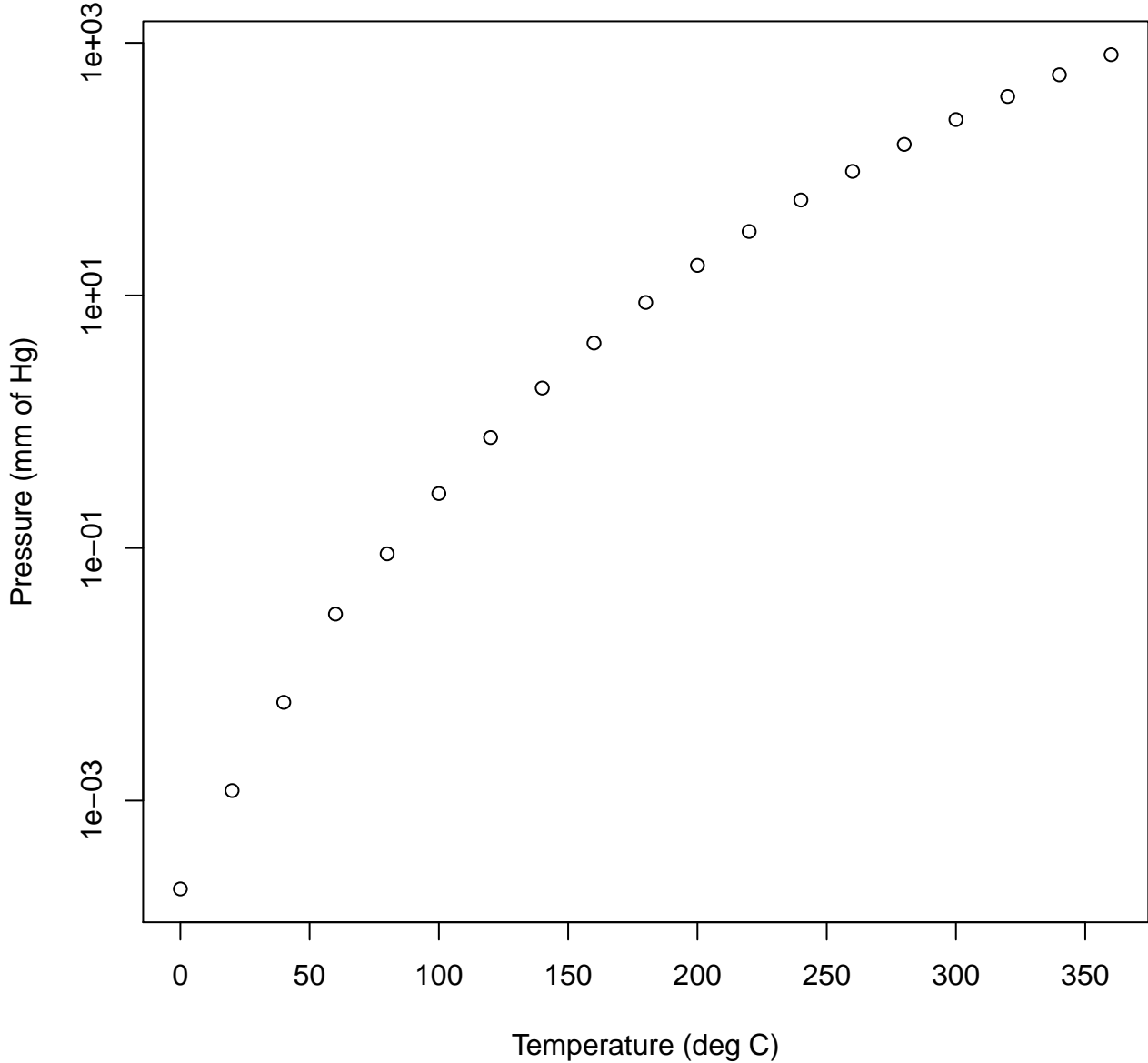


pressure data: Vapor Pressure of Mercury



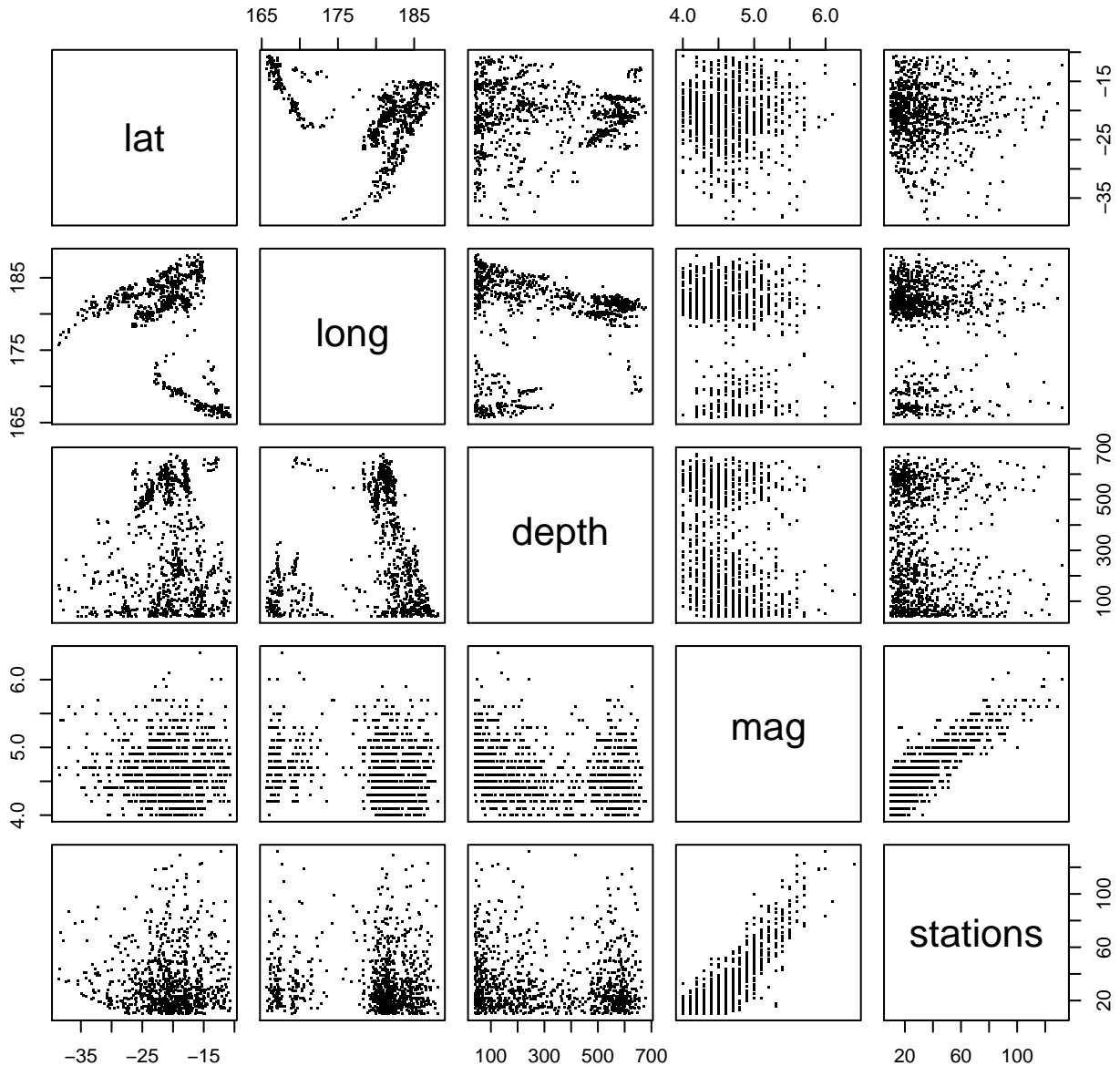


pressure data: Vapor Pressure of Mercury



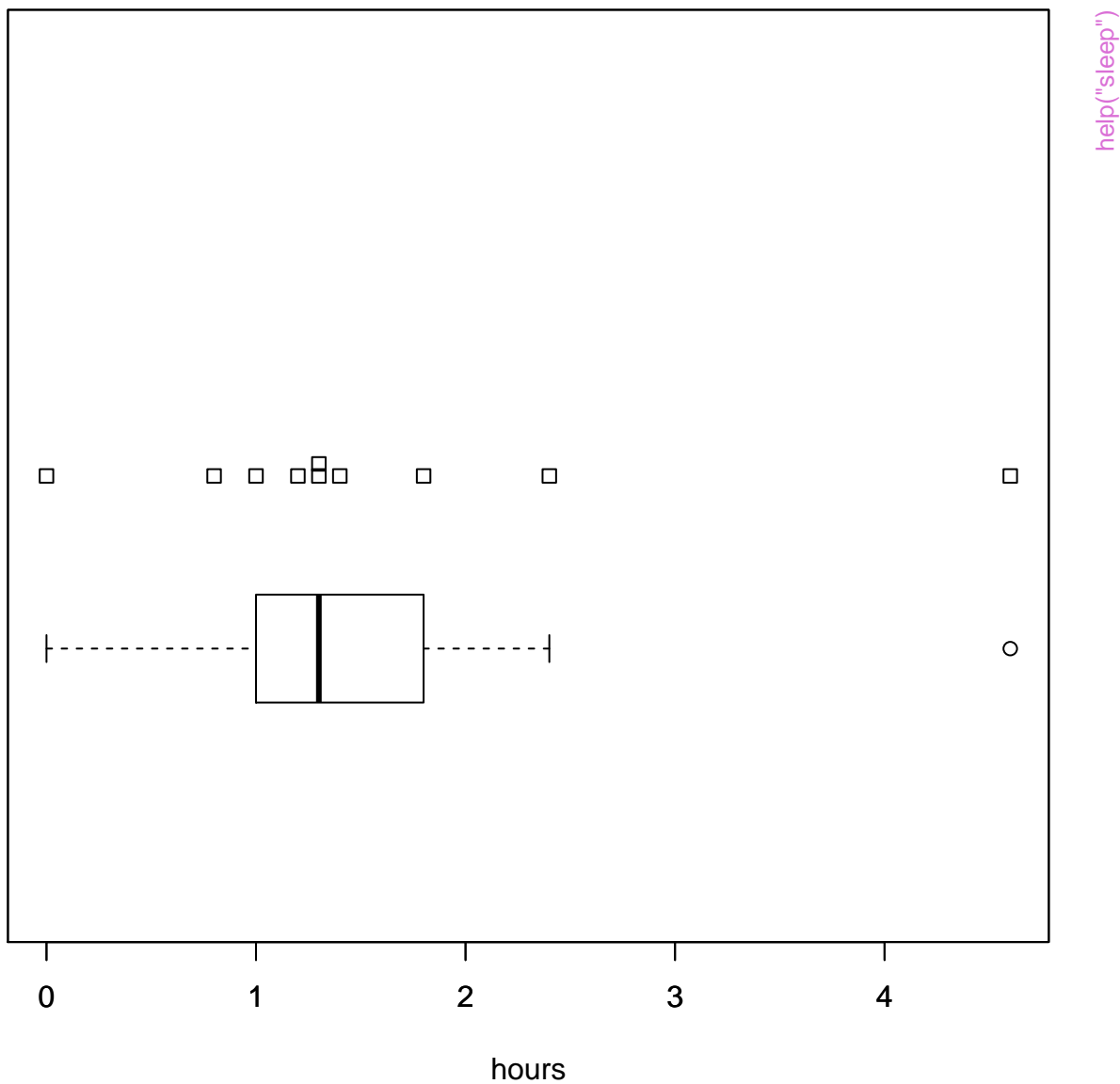
help("pressure")

# Fiji Earthquakes, N = 1000

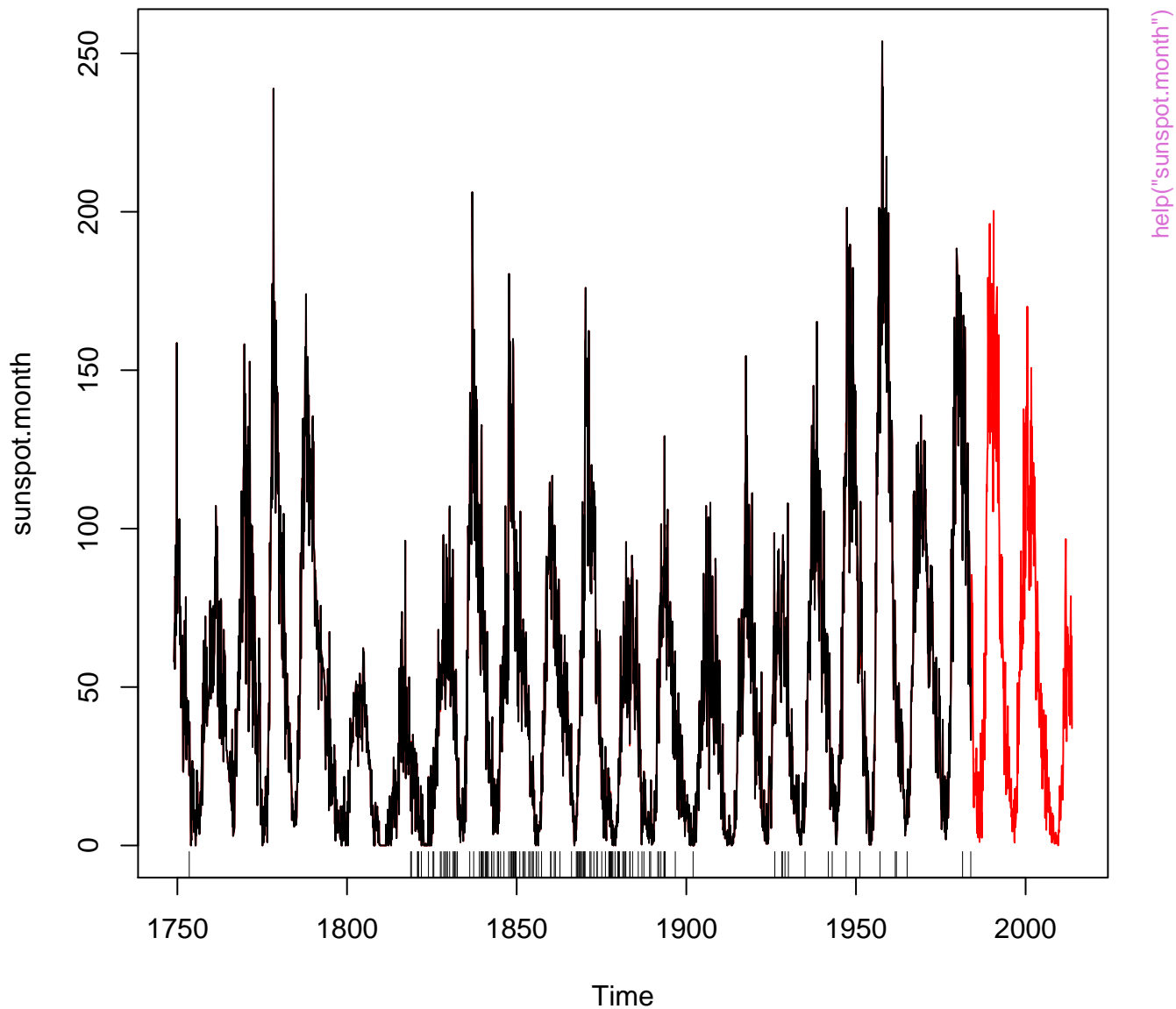


help("quakes")

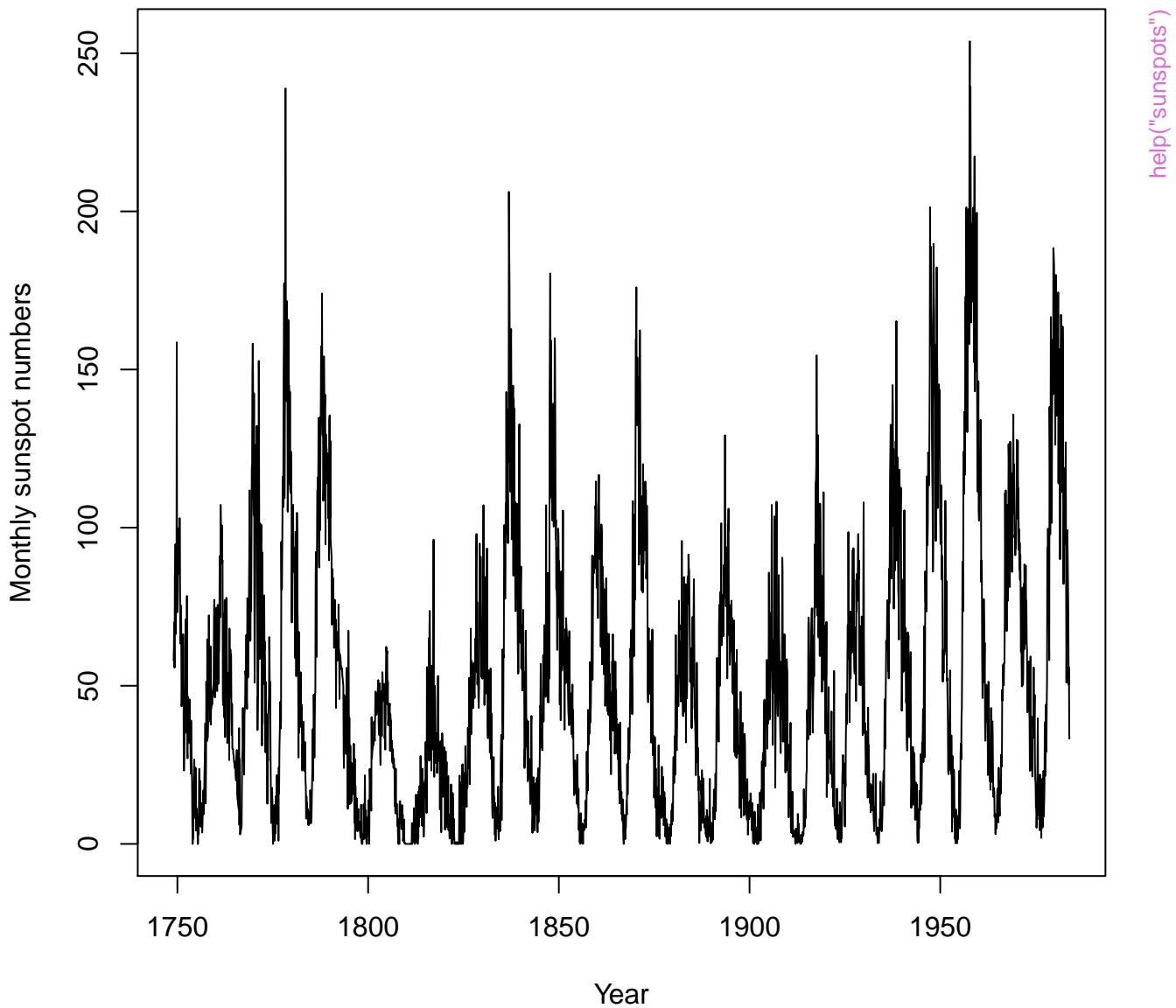
# Sleep prolongation (n = 10)



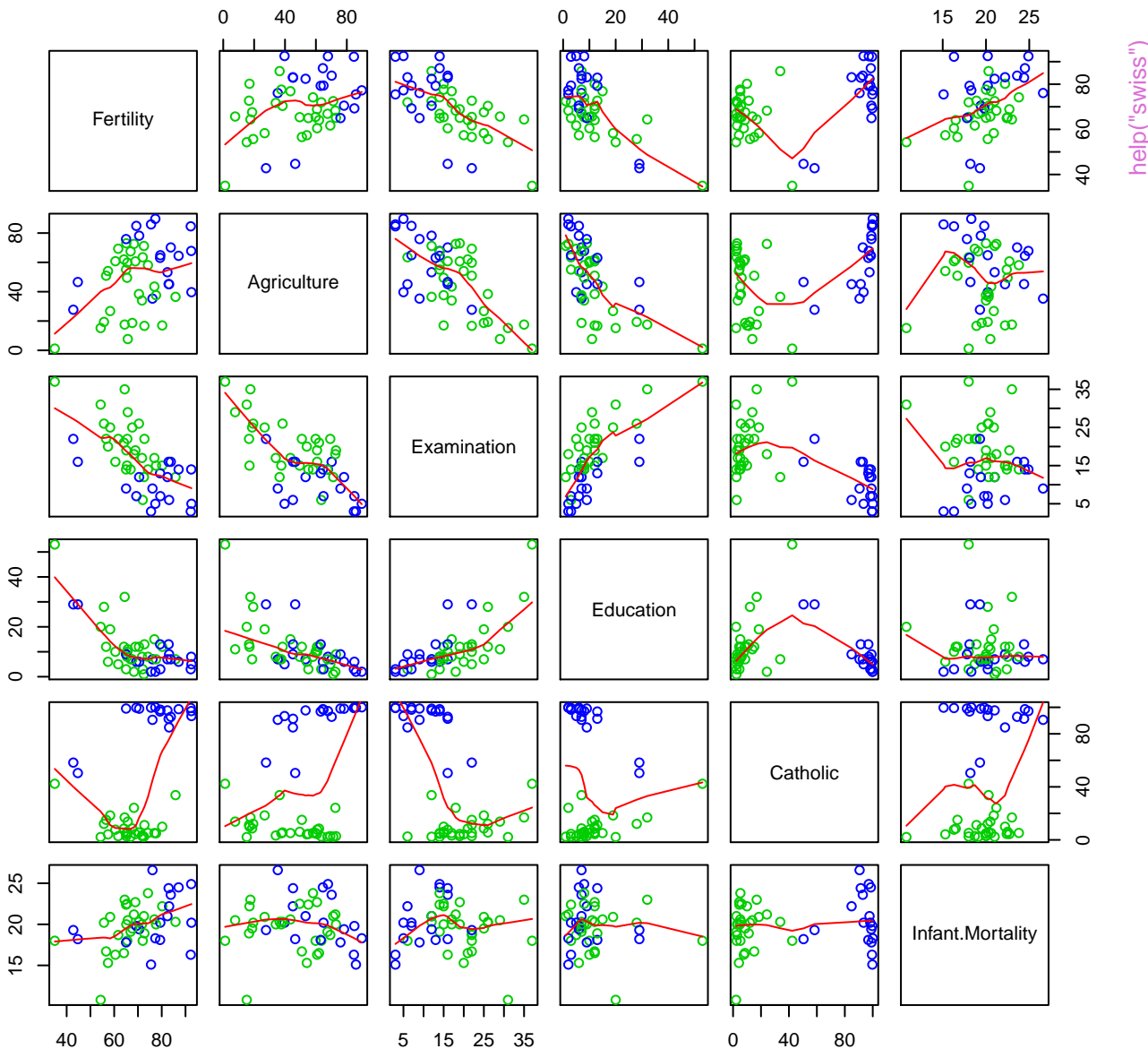
# sunspot.month & sunspots [package'datasets']



**sunspots data**

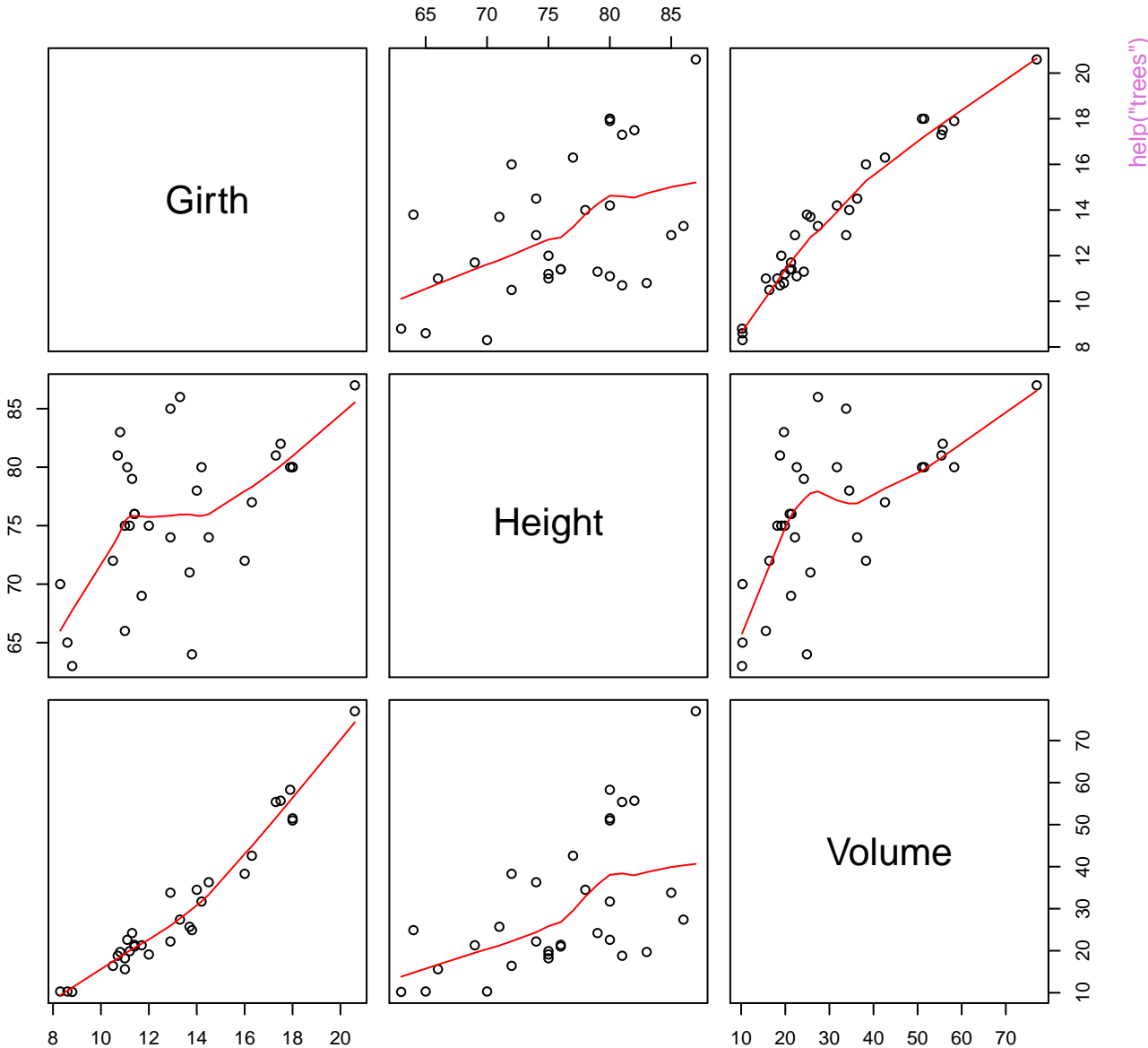


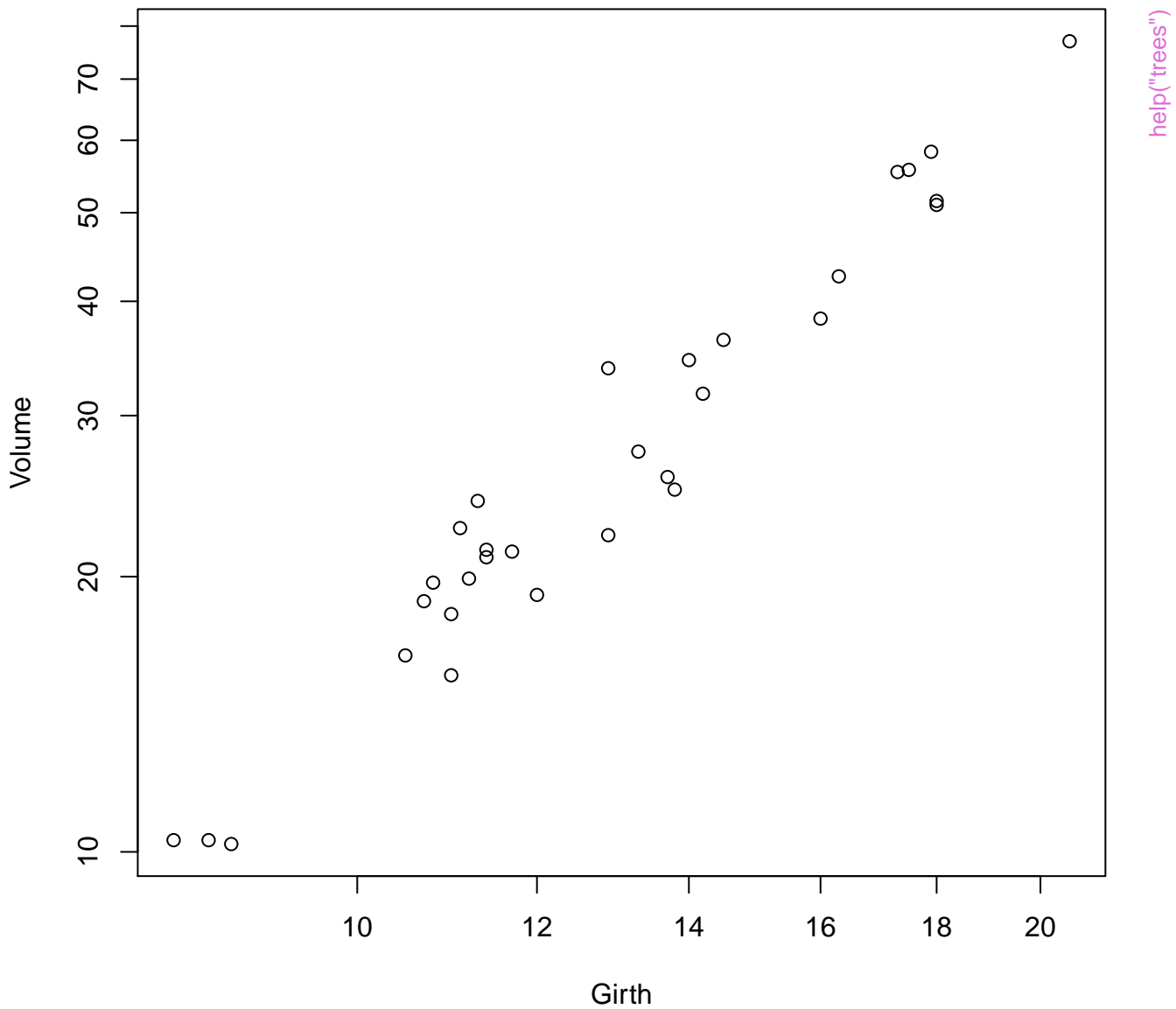
# swiss data



help("swiss")

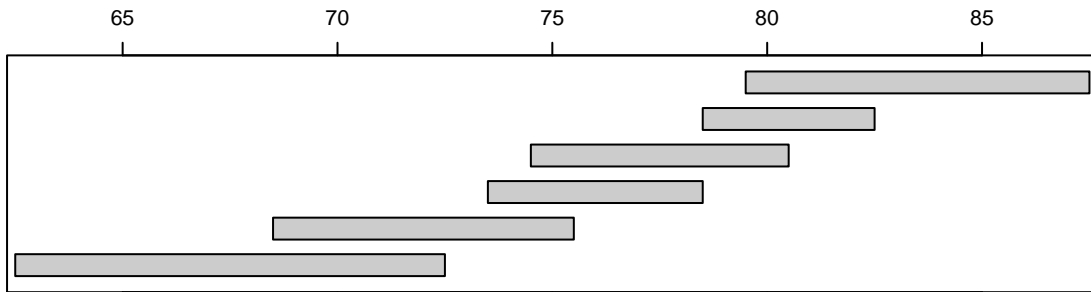
# trees data



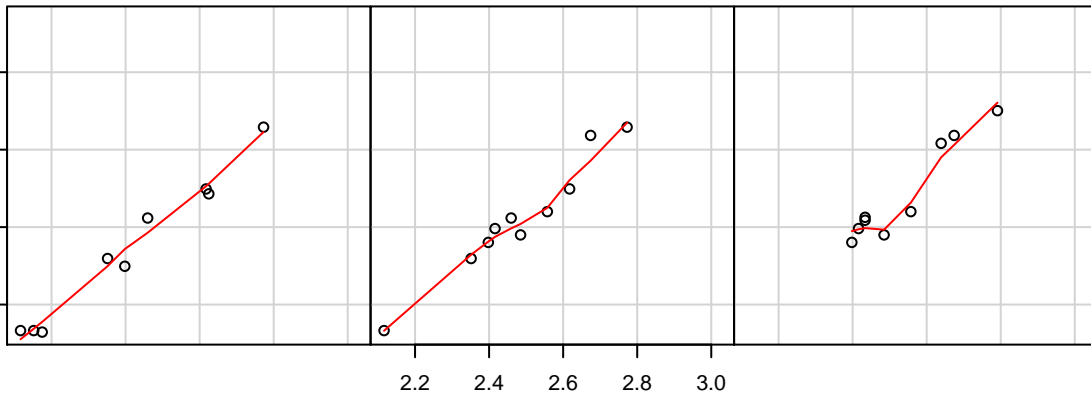
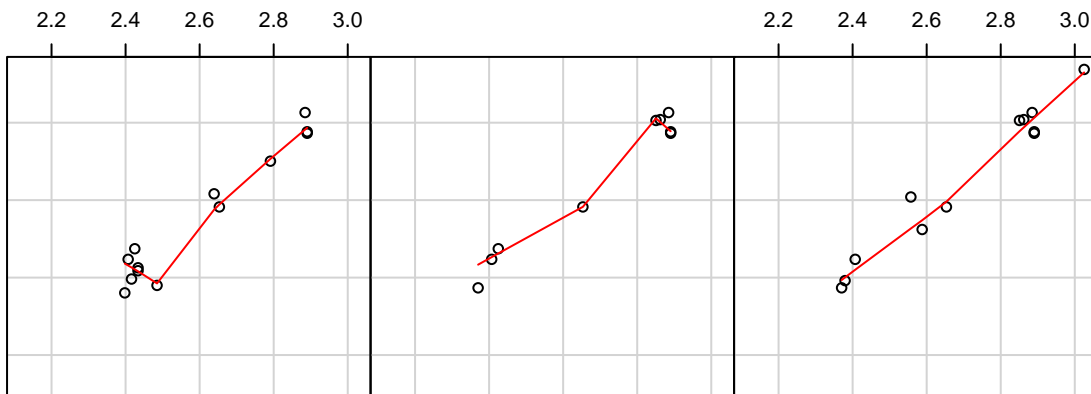




Given : Height

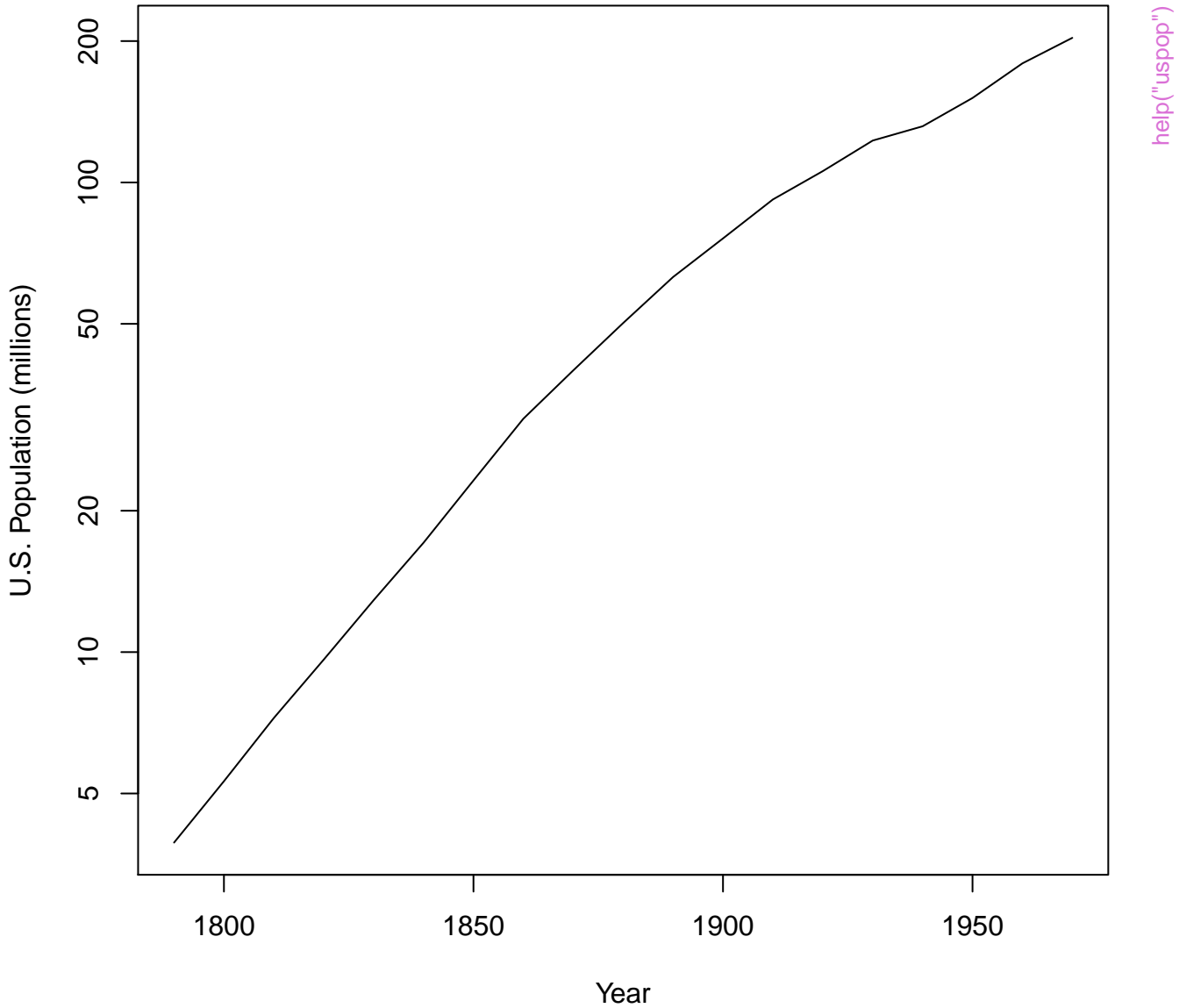


help("trees")

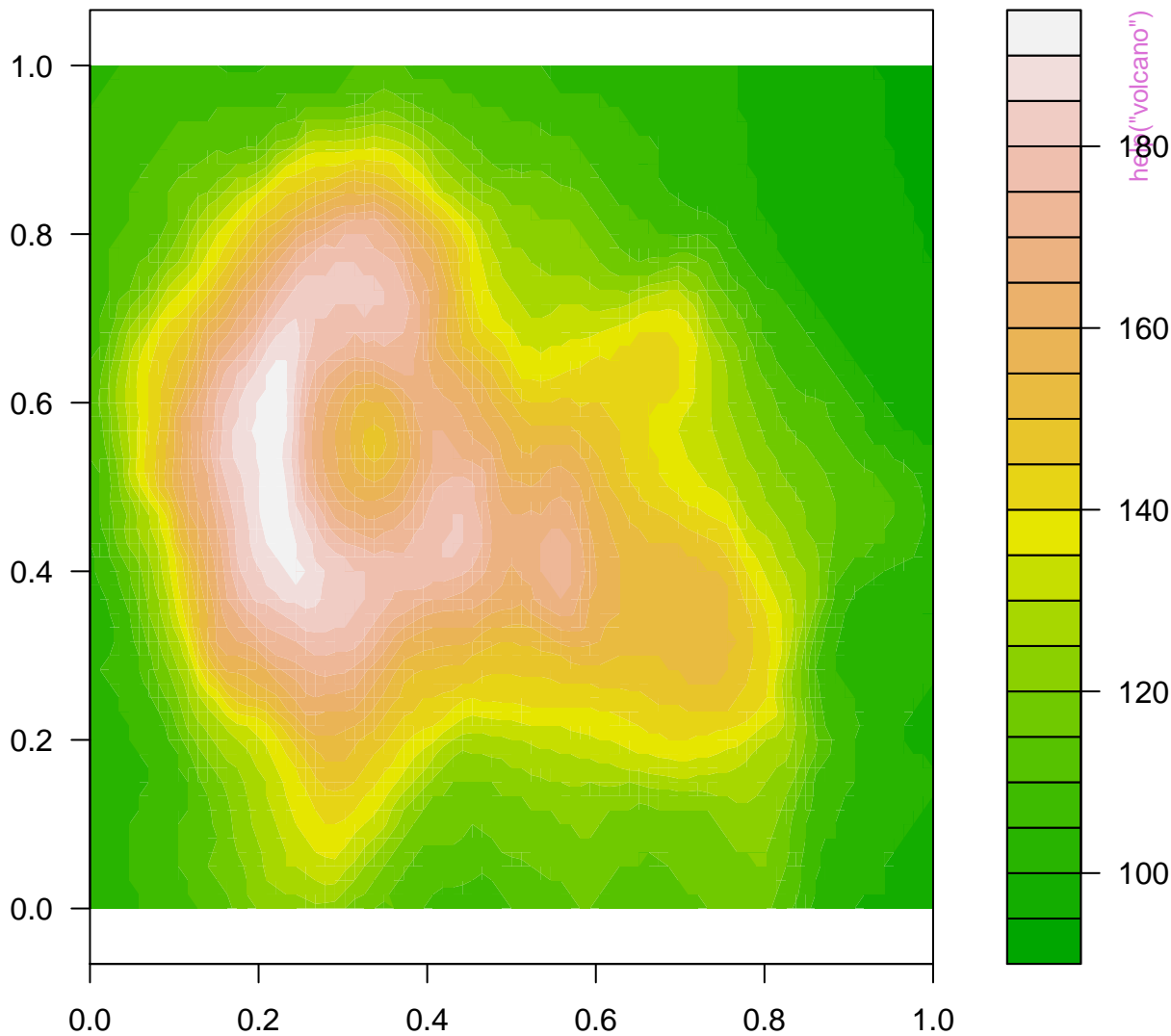


$\log(\text{Girth})$

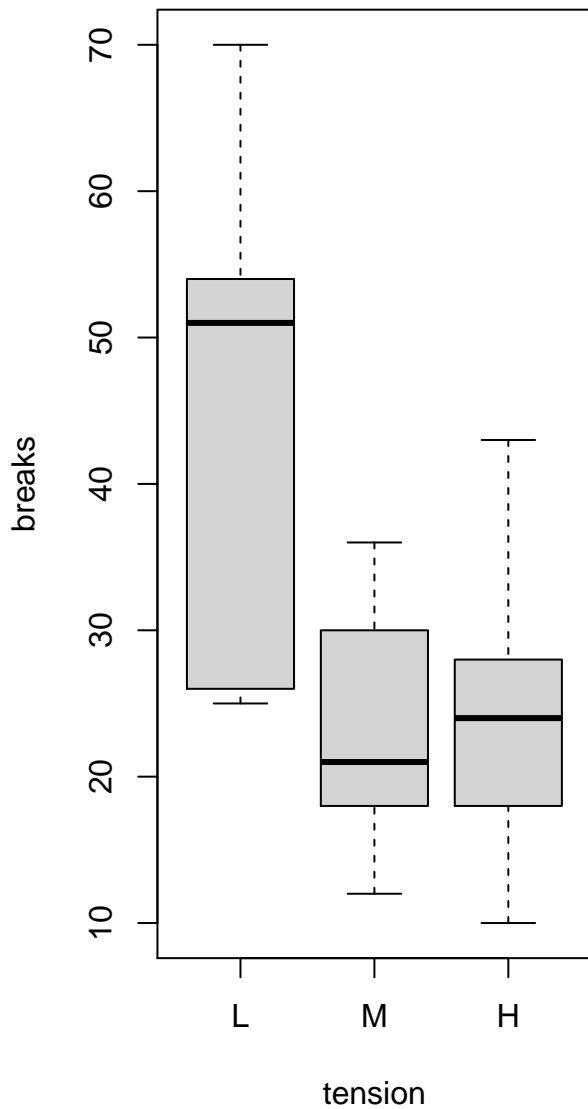
## uspop data



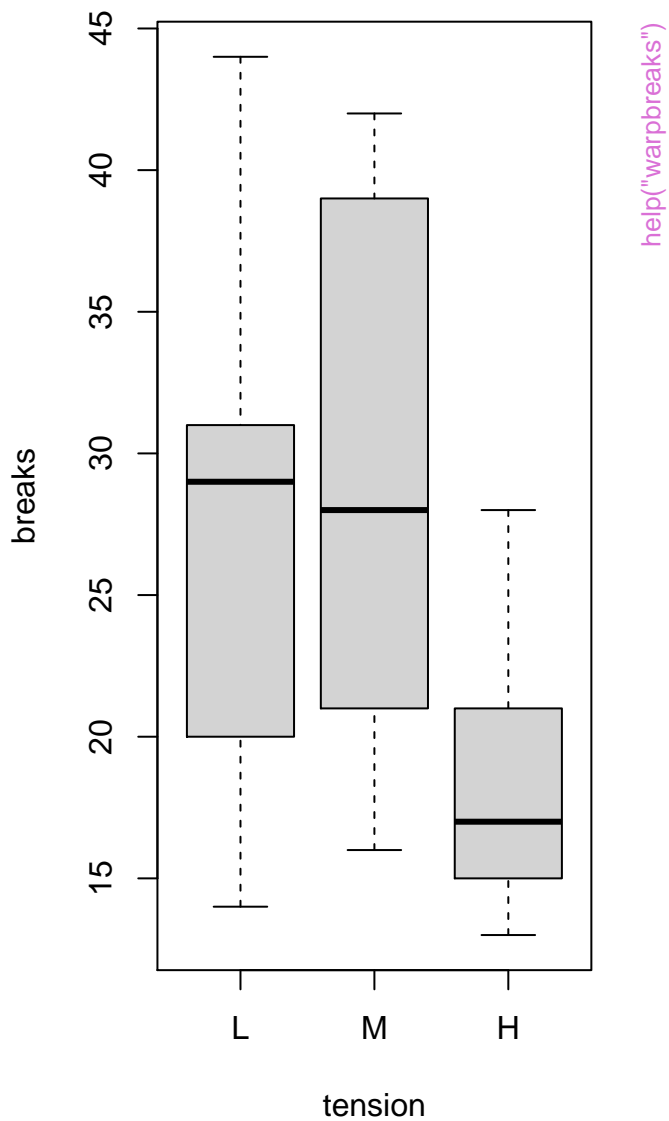
**volcano data: filled contour map**



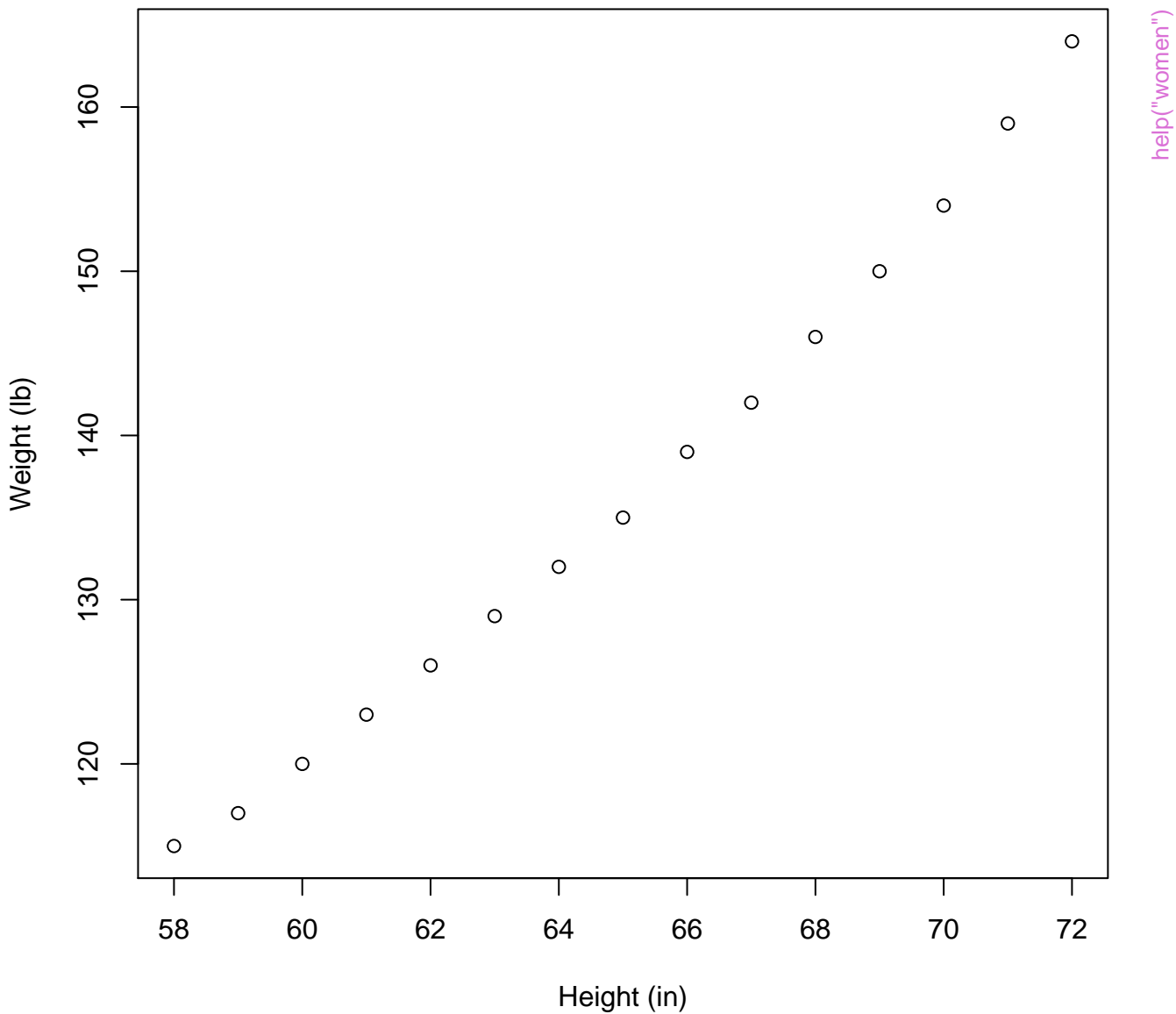
Wool A



Wool B



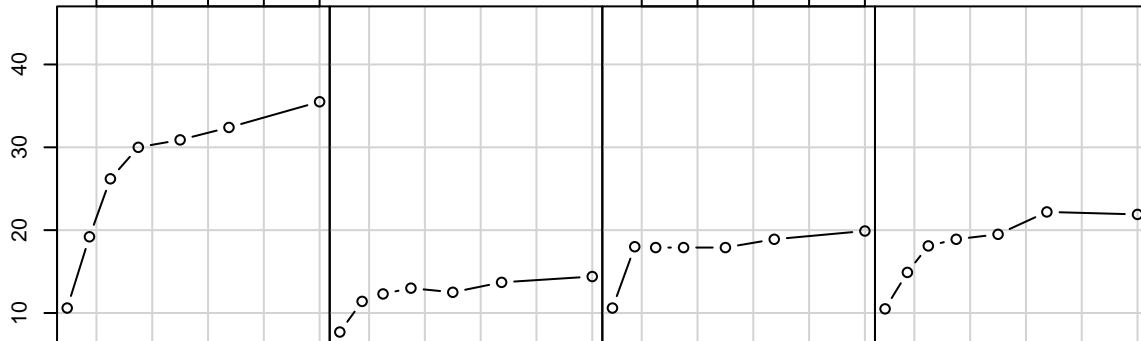
women data: American women aged 30–39



# Given : Plant

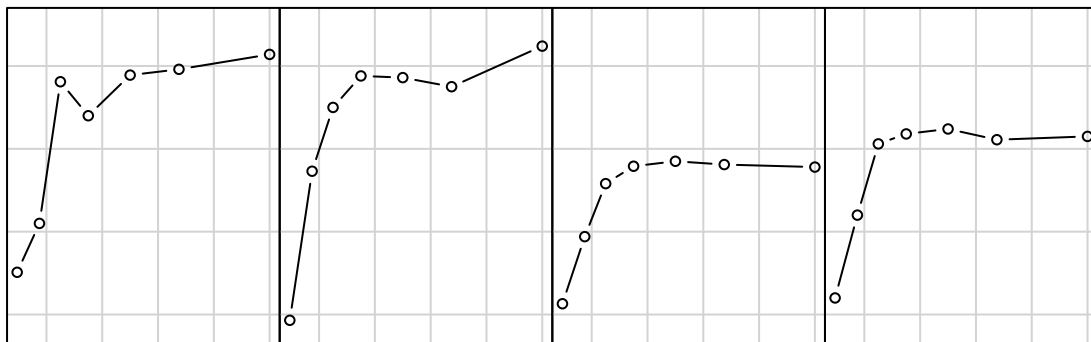
200 400 600 800

200 400 600 800

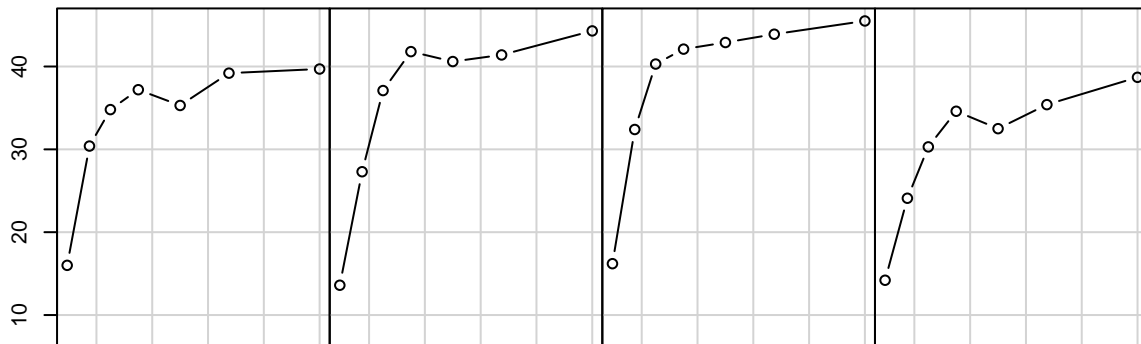


help("zCO2")

uptake



40  
30  
20  
10



200 400 600 800

200 400 600 800

conc