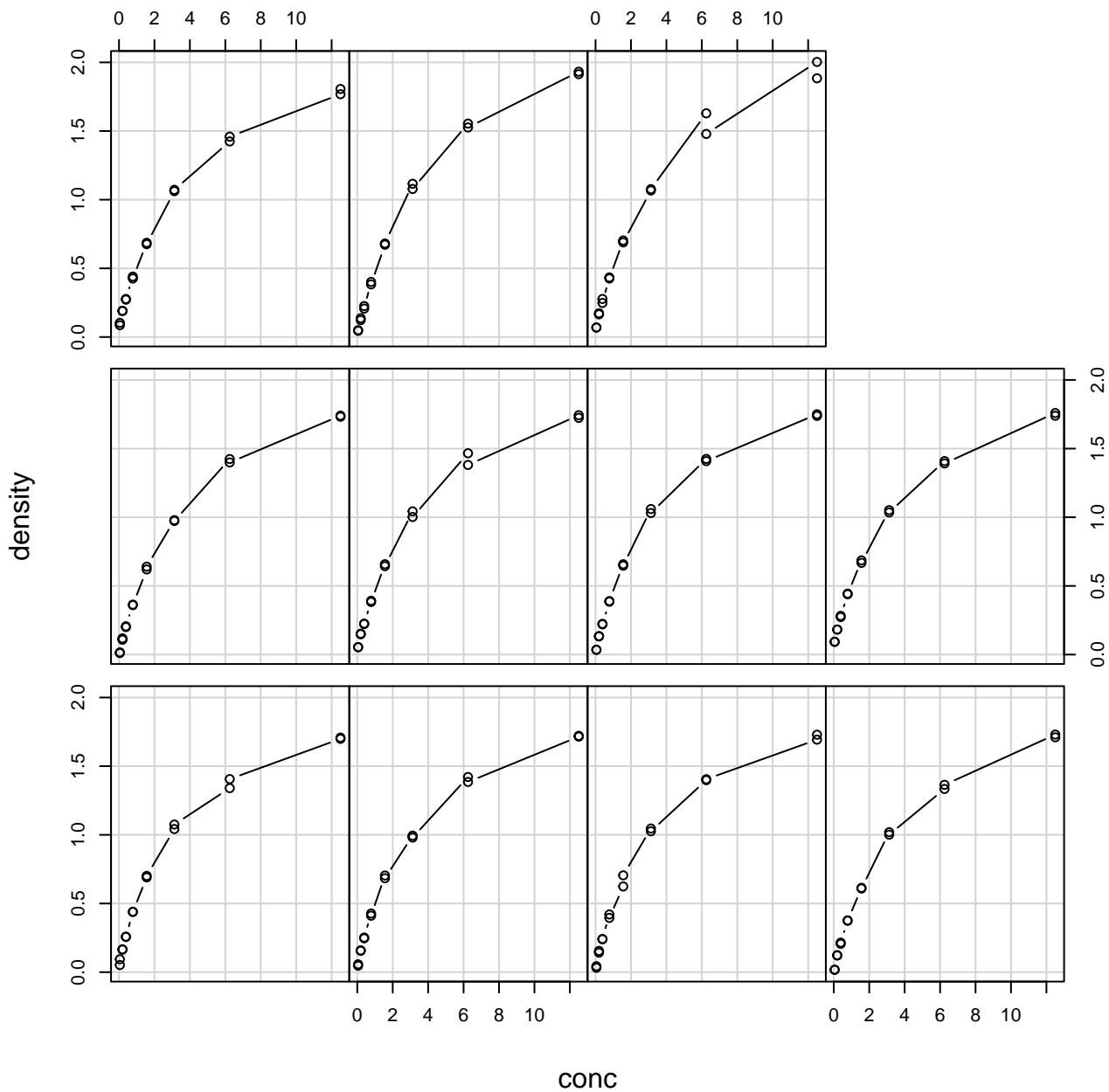
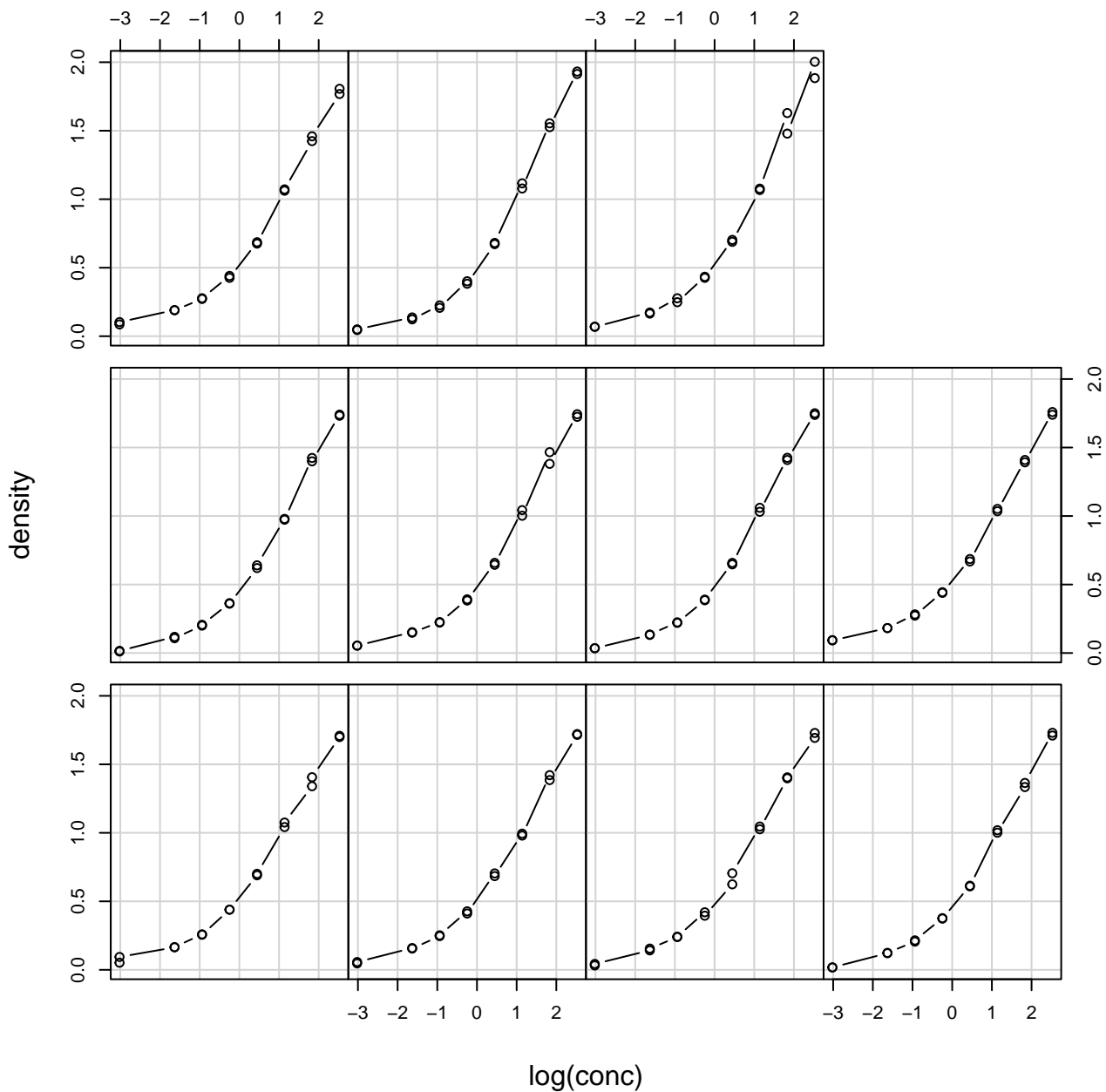


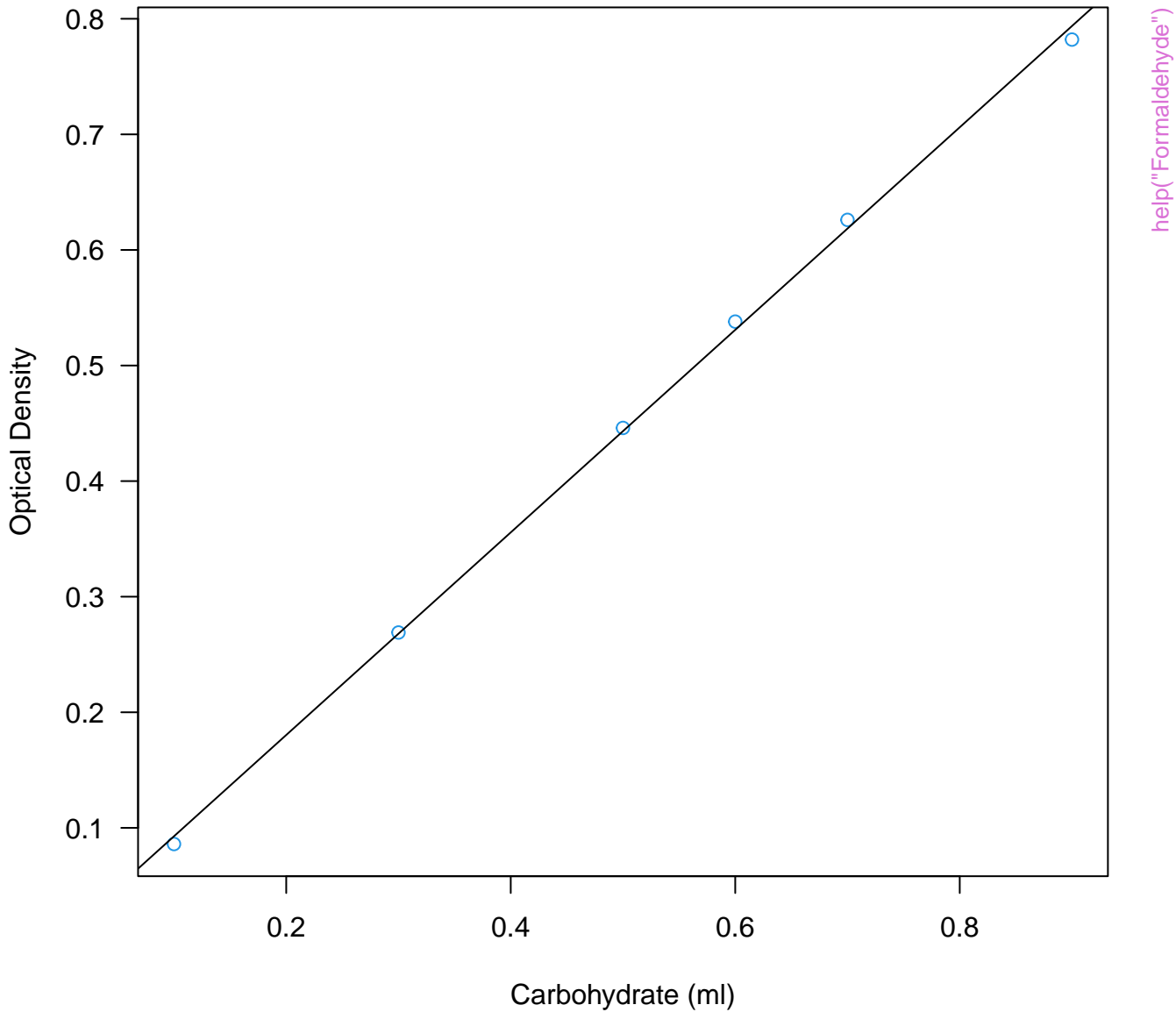
Given : Run



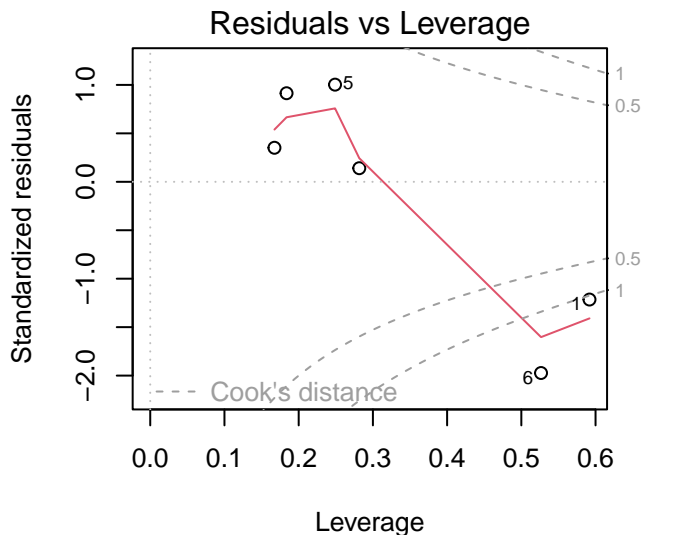
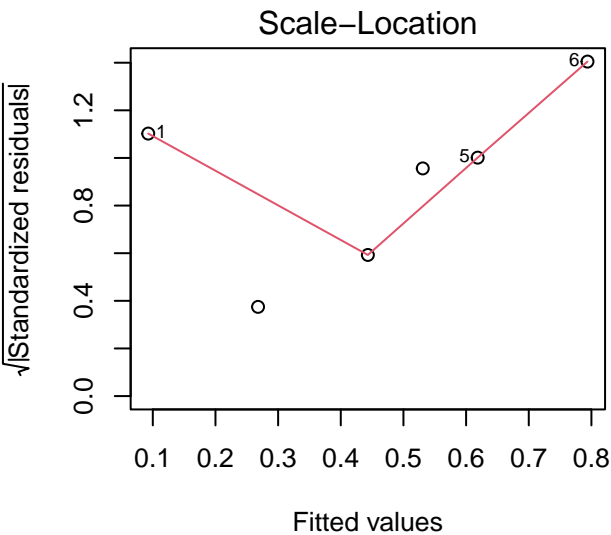
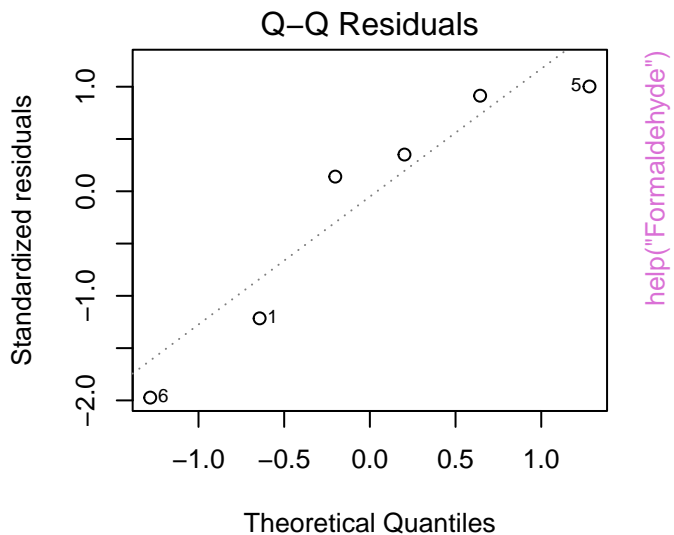
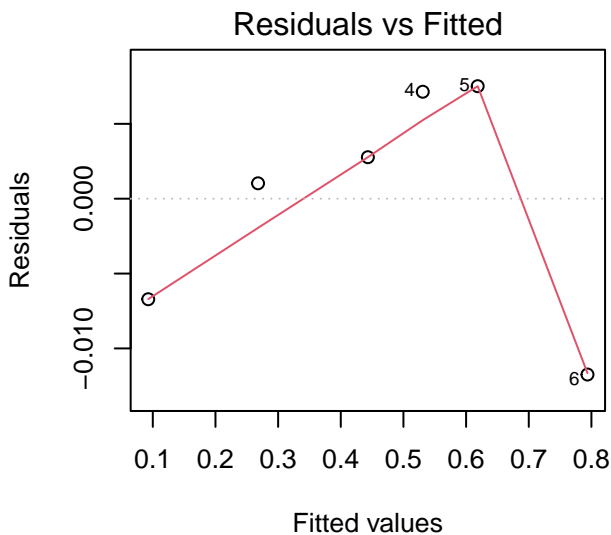
Given : Run



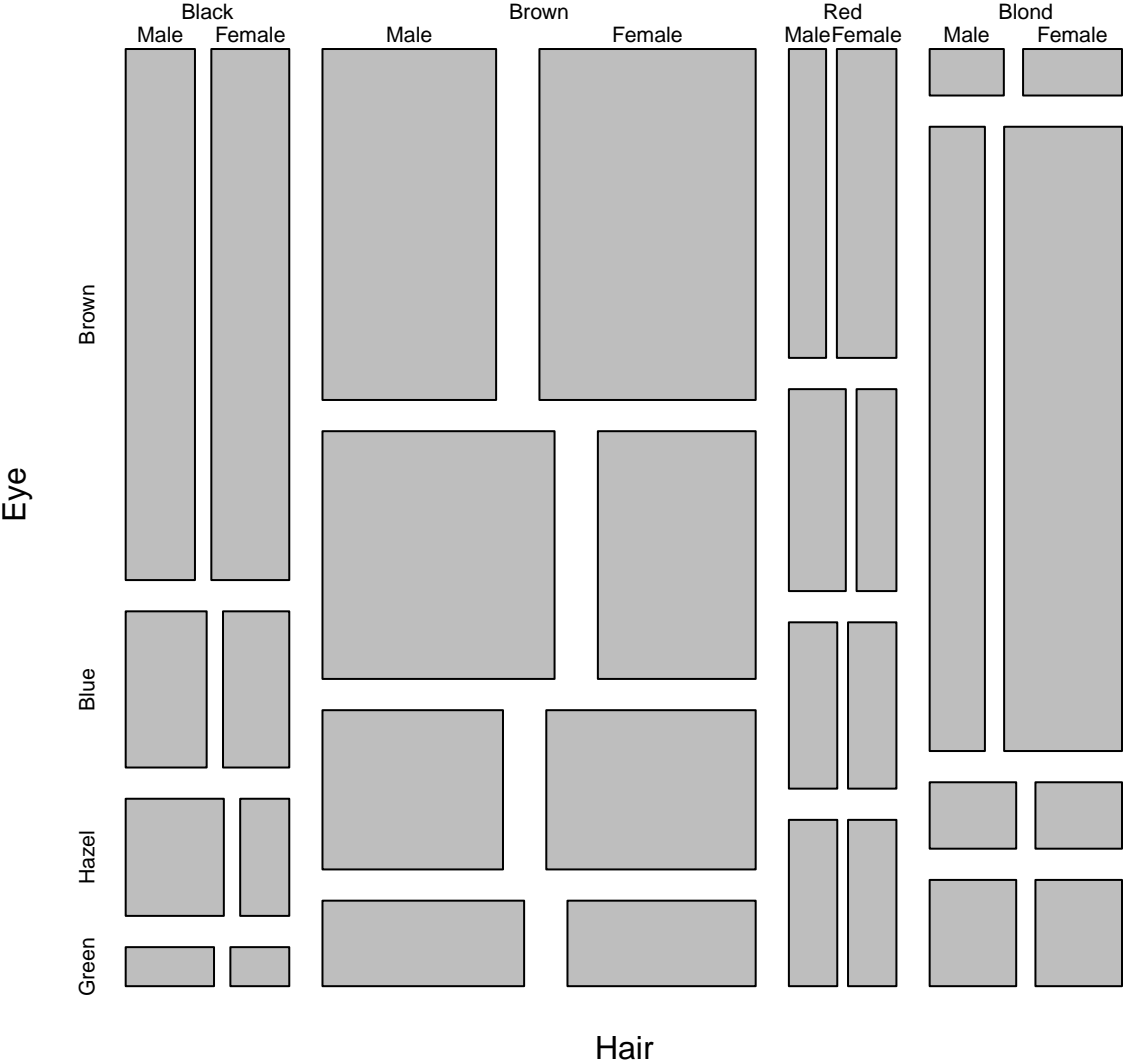
## Formaldehyde data



lm(optden ~ carb)

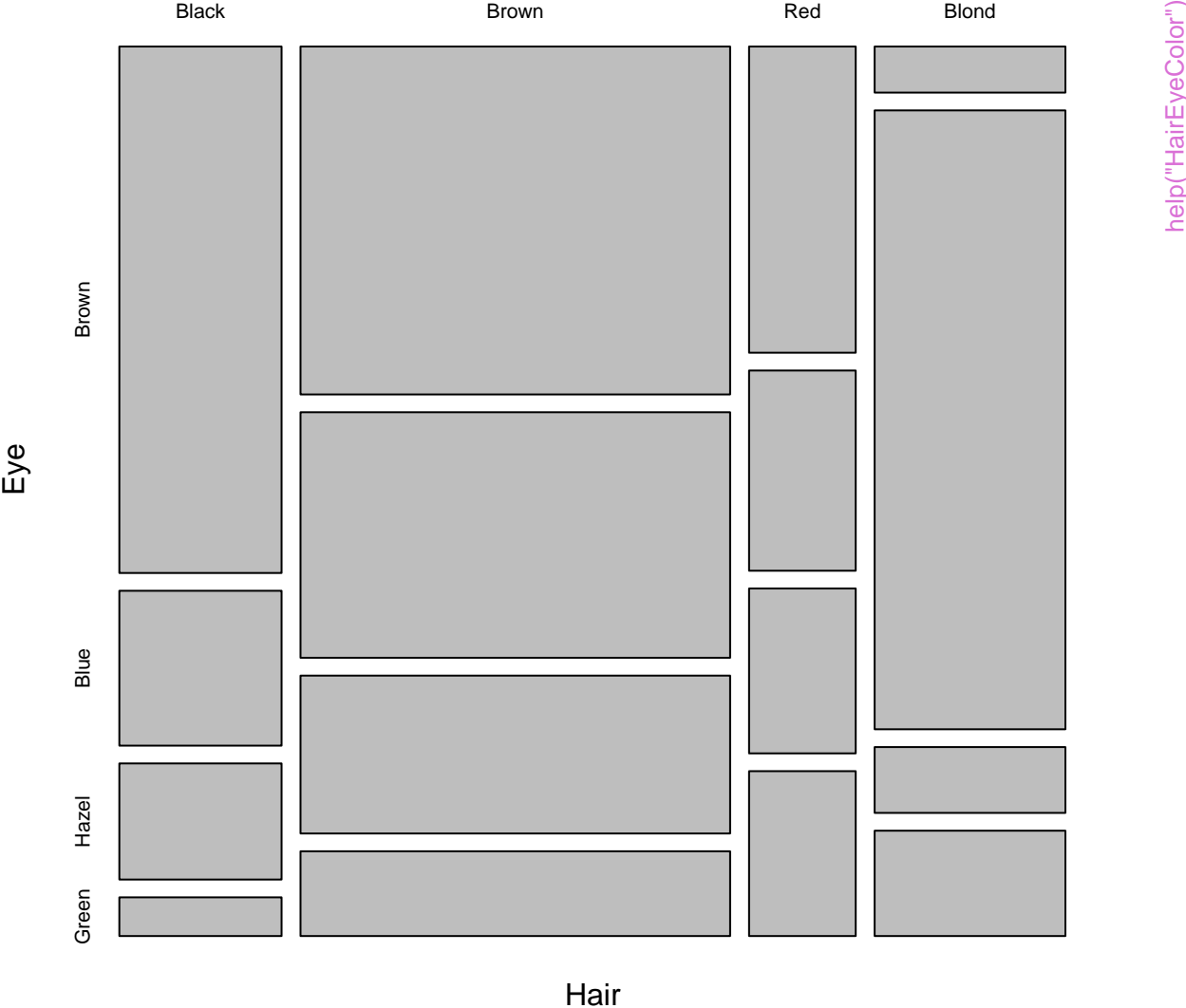


HairEyeColor

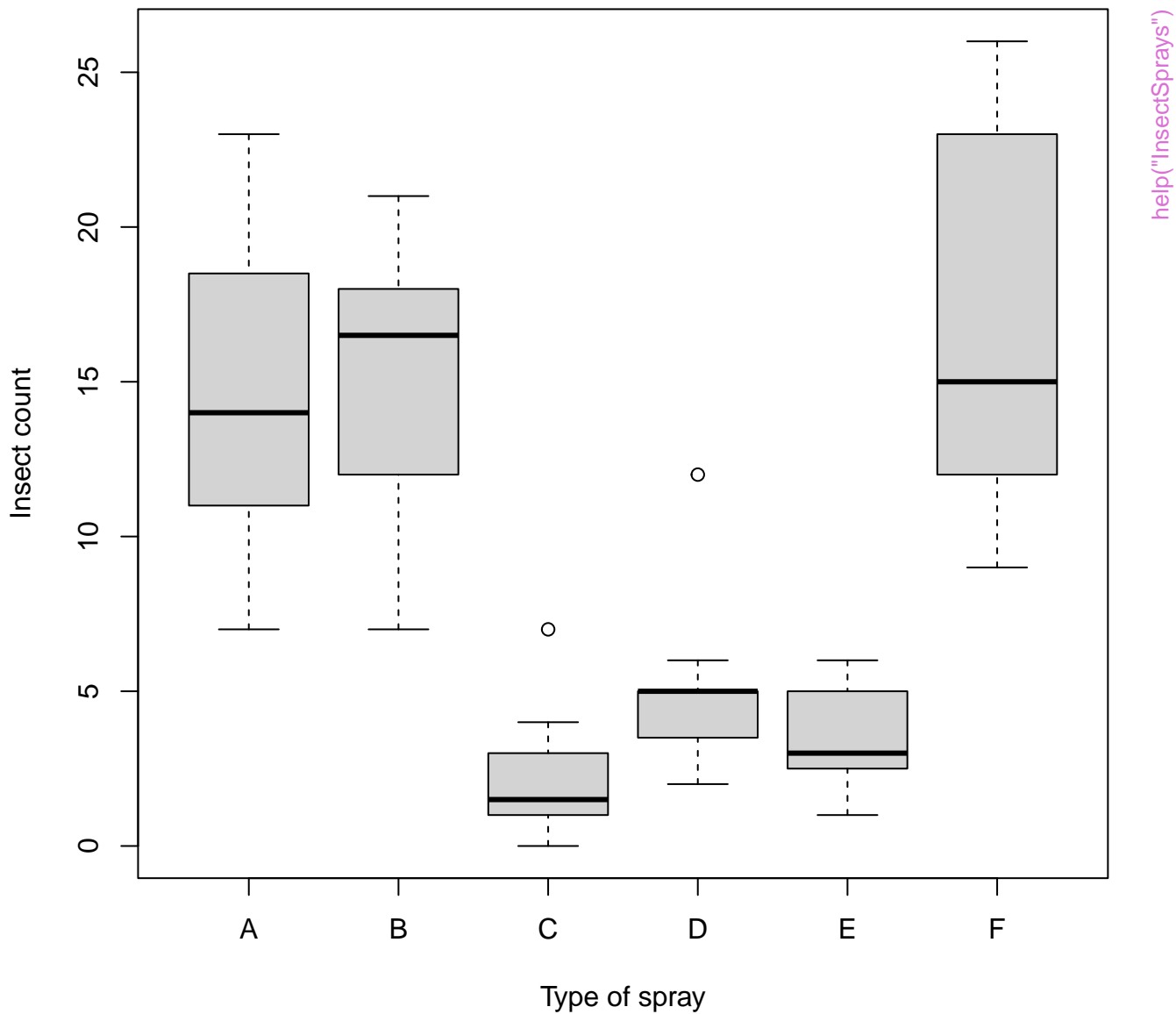


help("HairEyeColor")

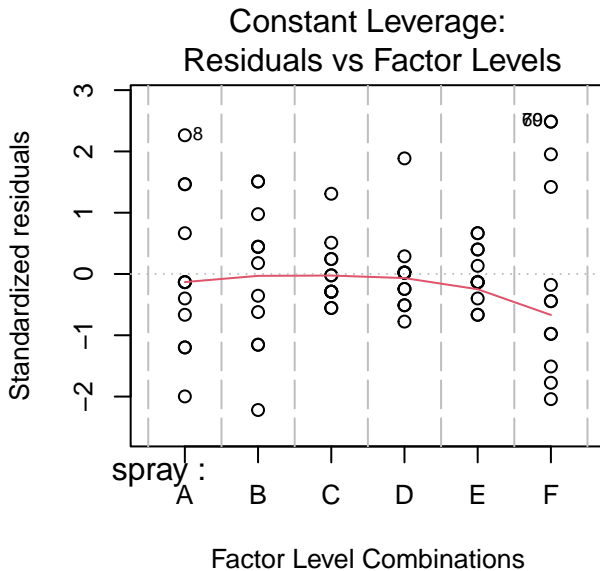
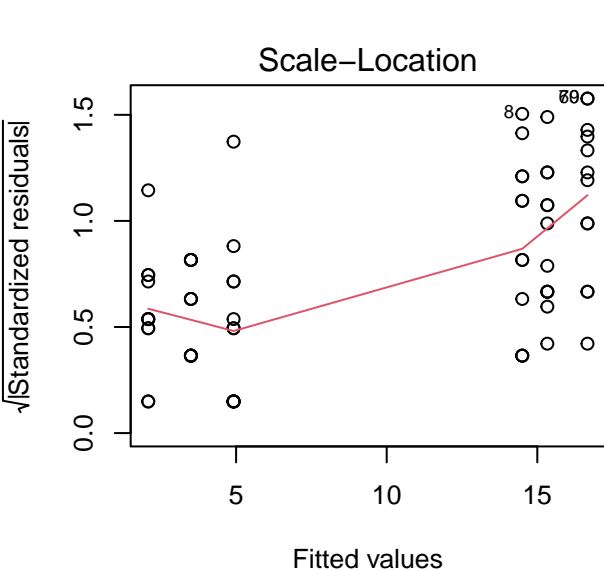
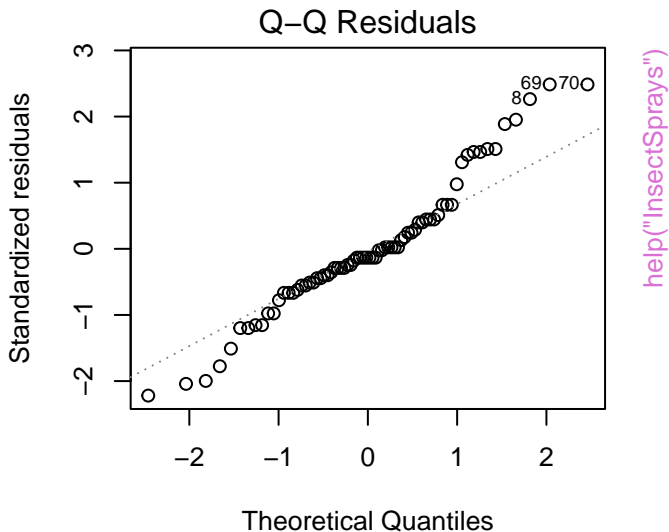
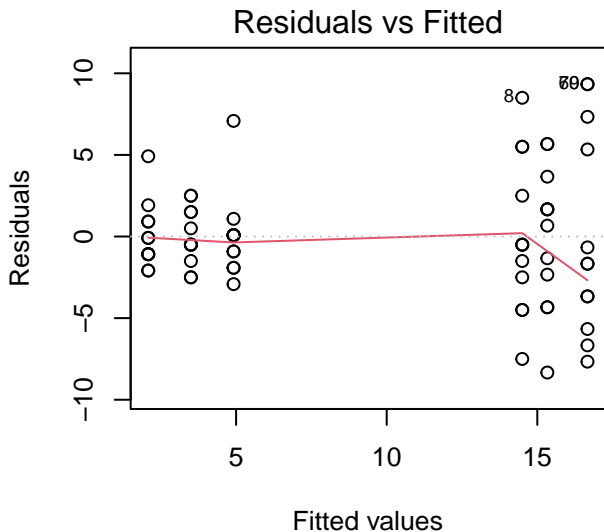
Relation between hair and eye color



## InsectSprays data

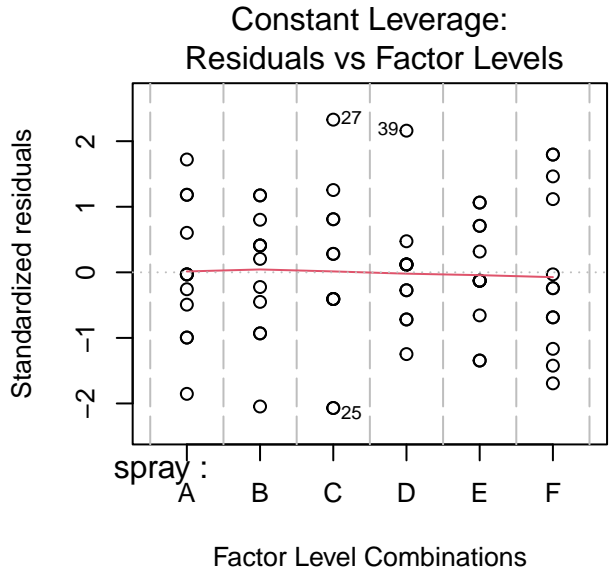
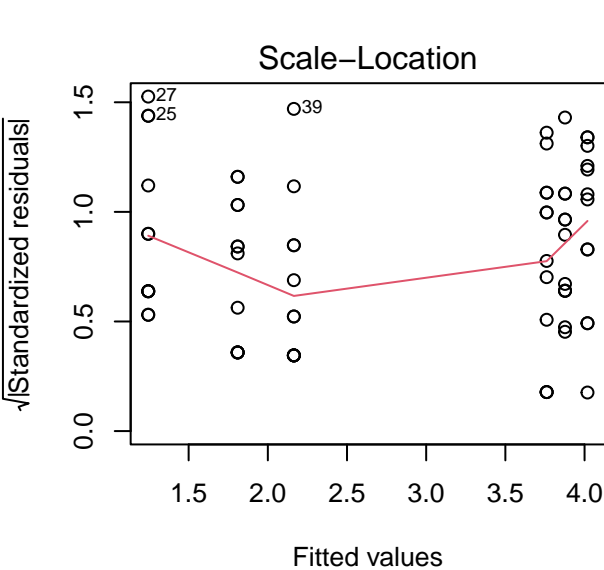
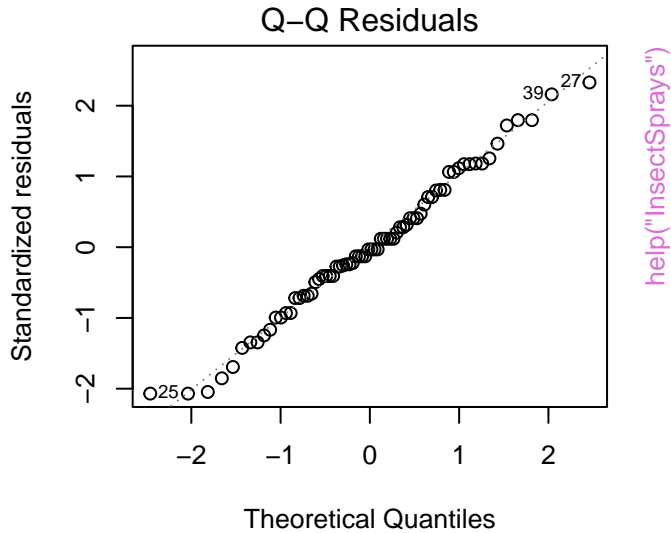
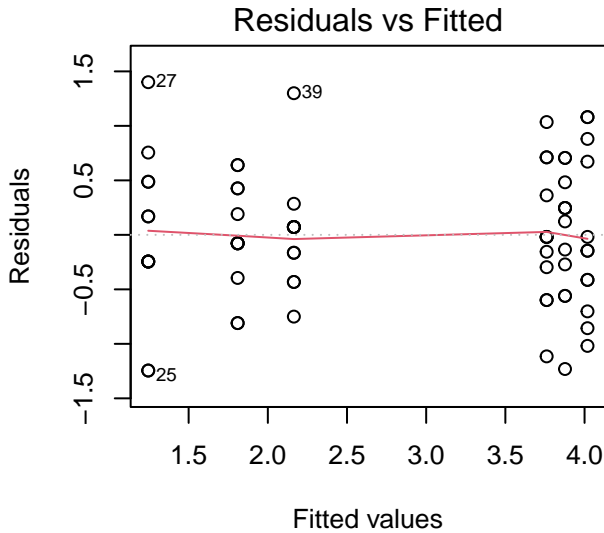


aov(count ~ spray)

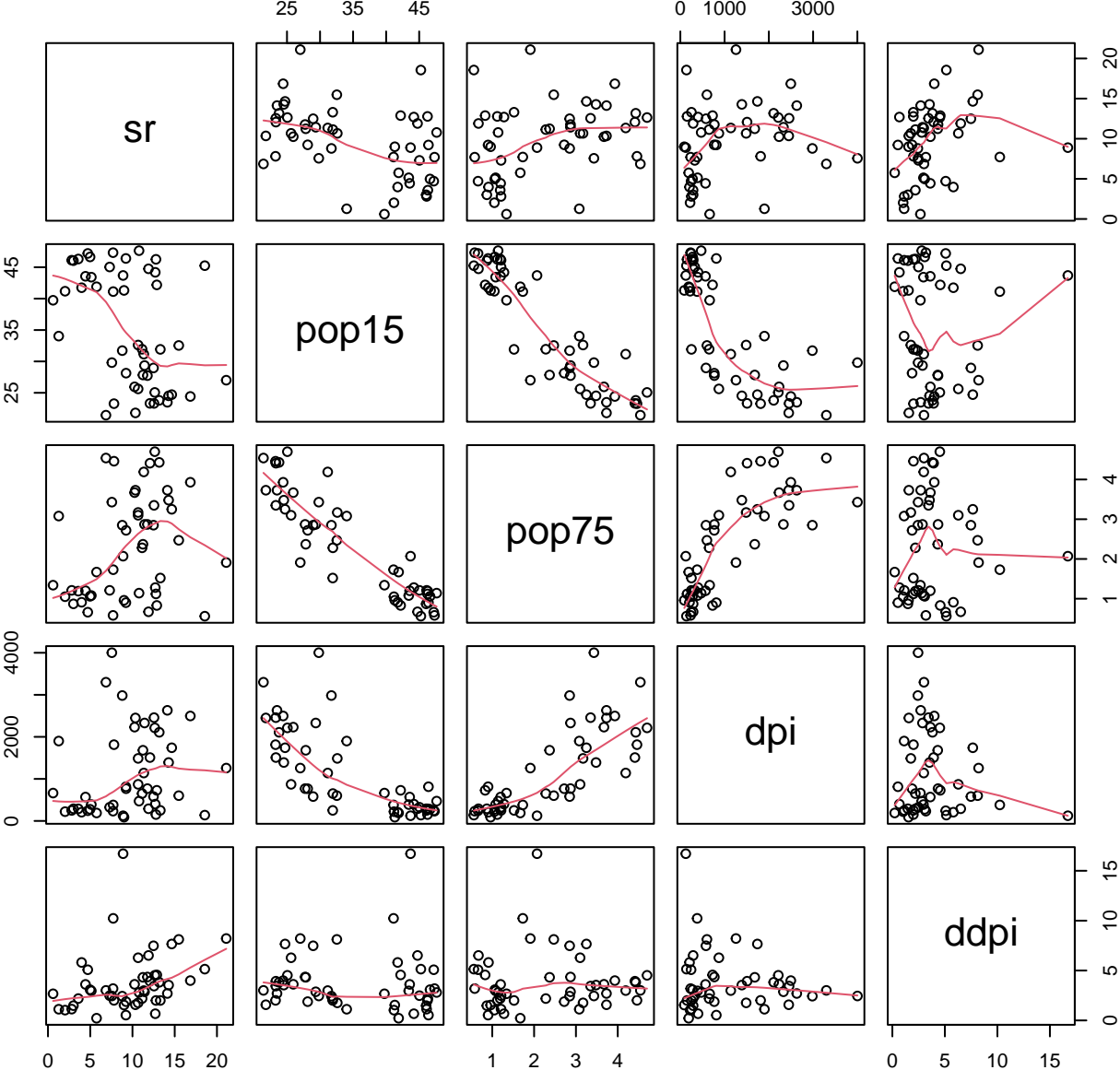




aov(sqrt(count) ~ spray)

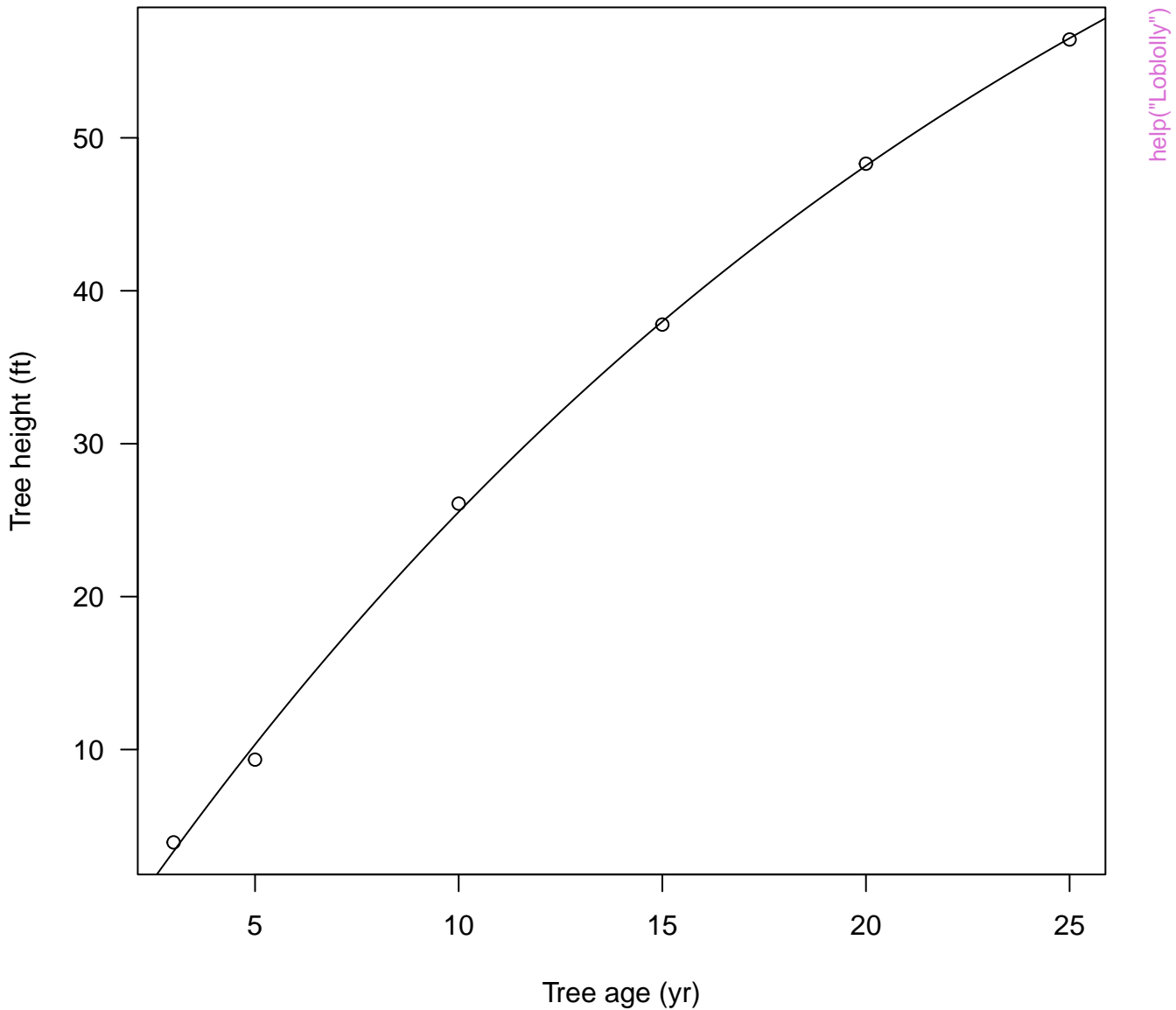


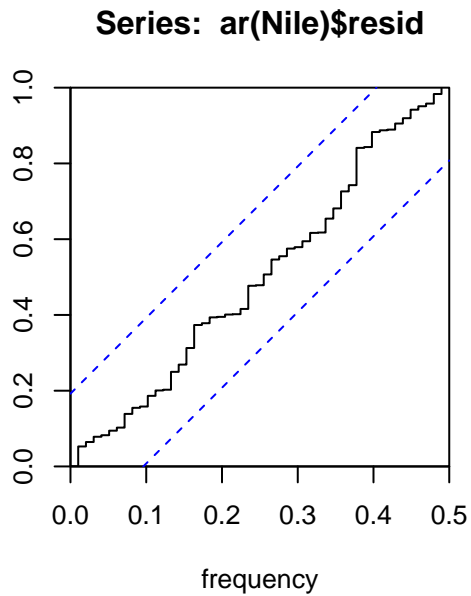
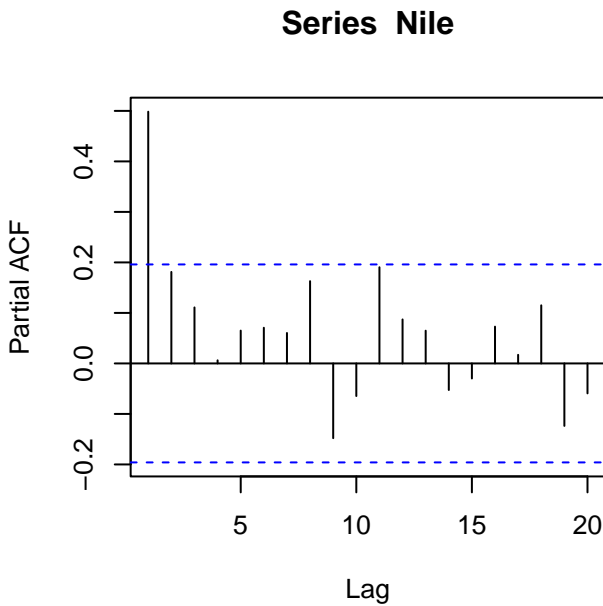
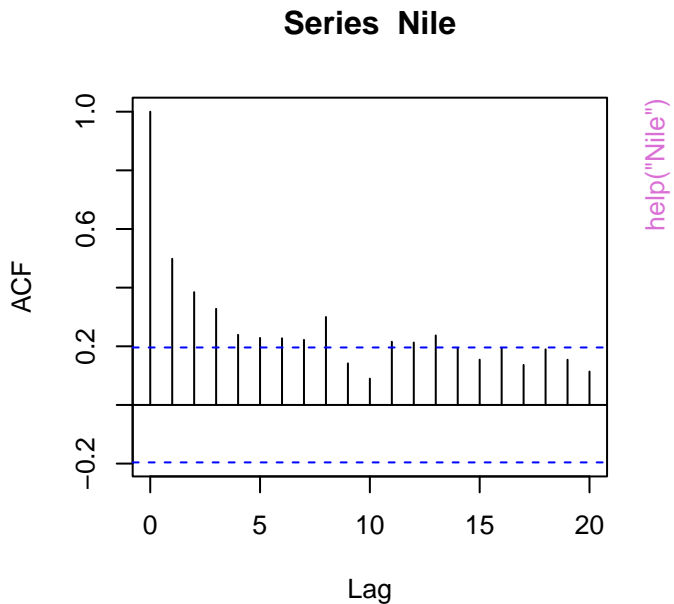
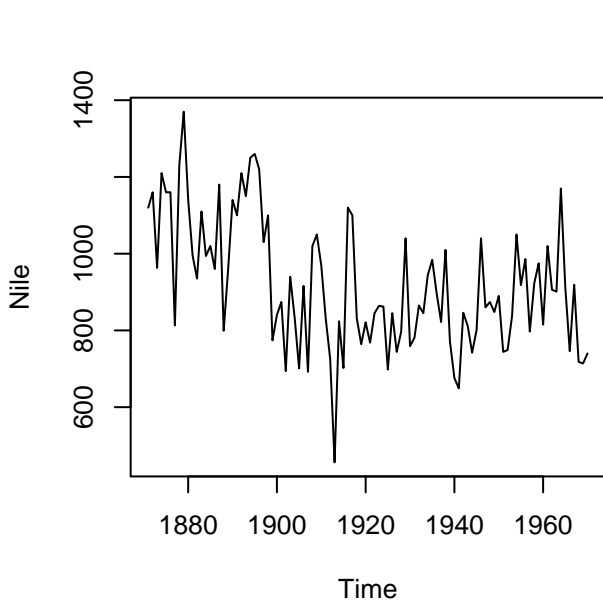
LifeCycleSavings data



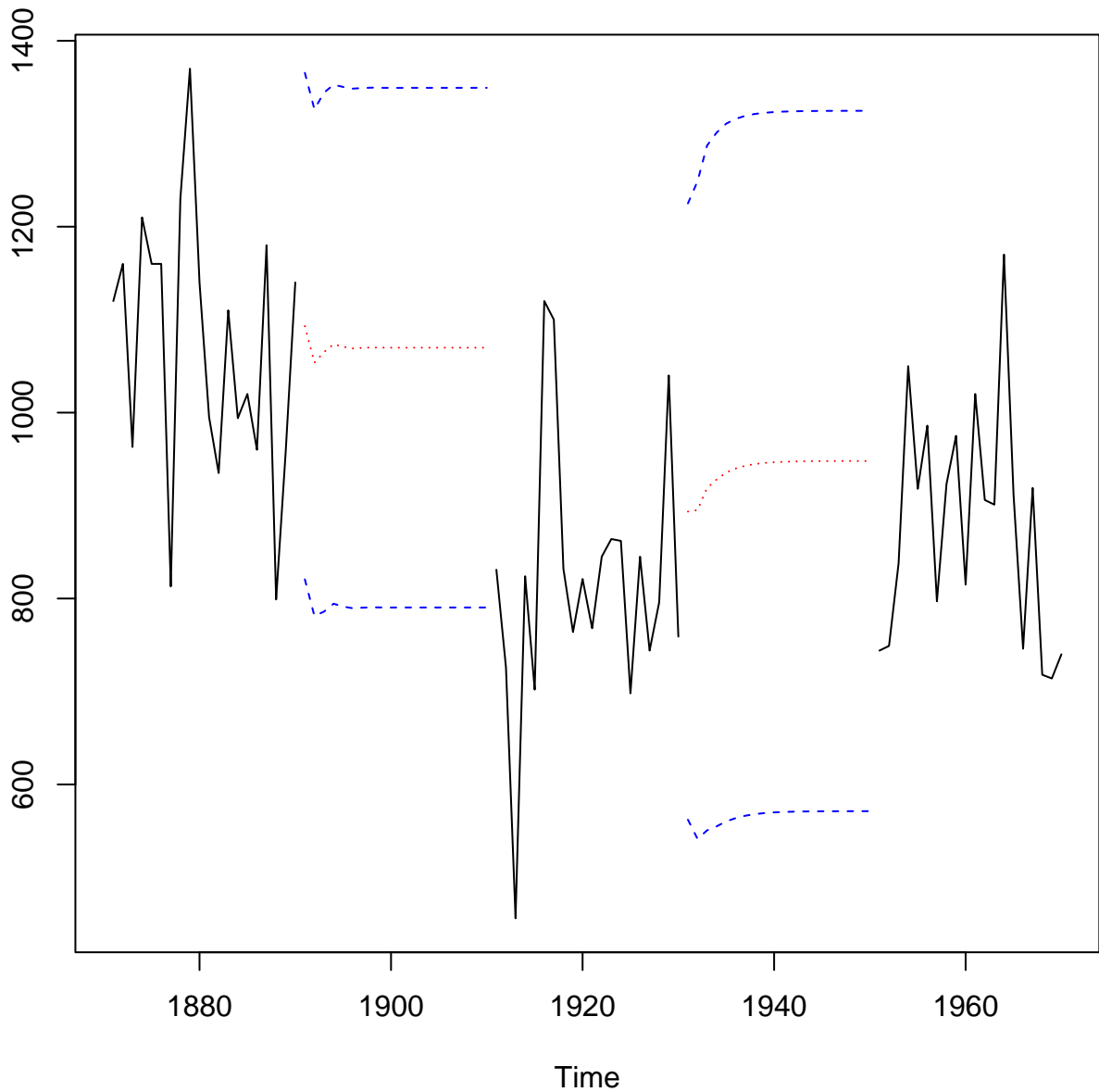
help("LifeCycleSavings")

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

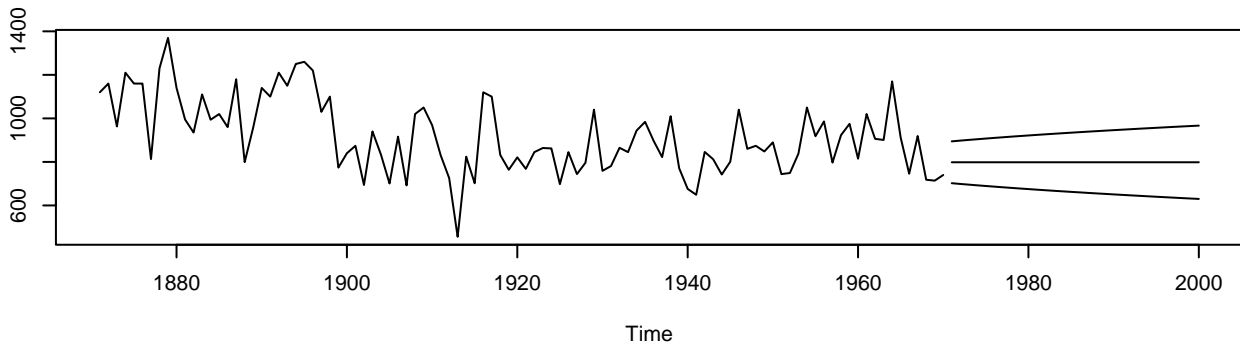
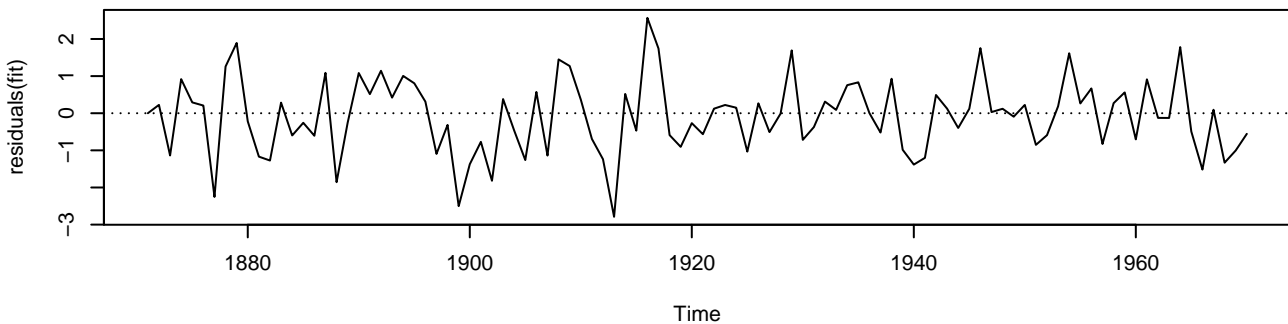
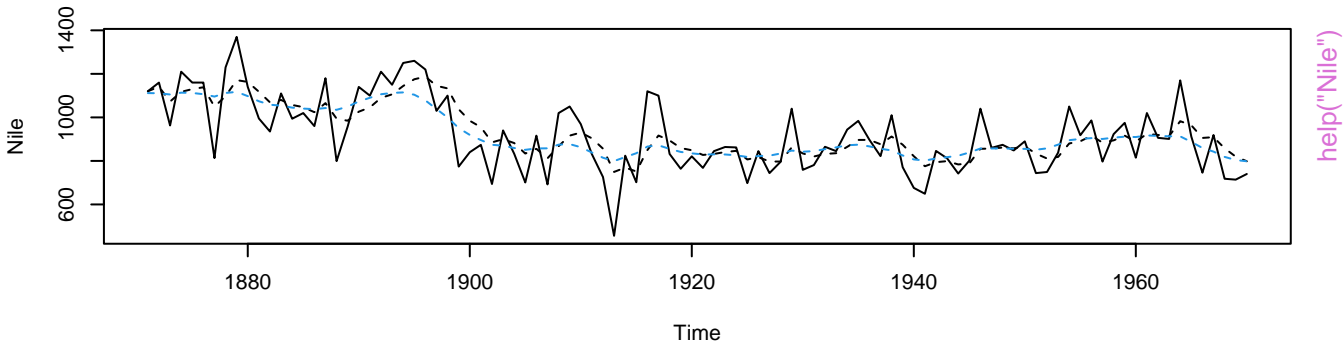


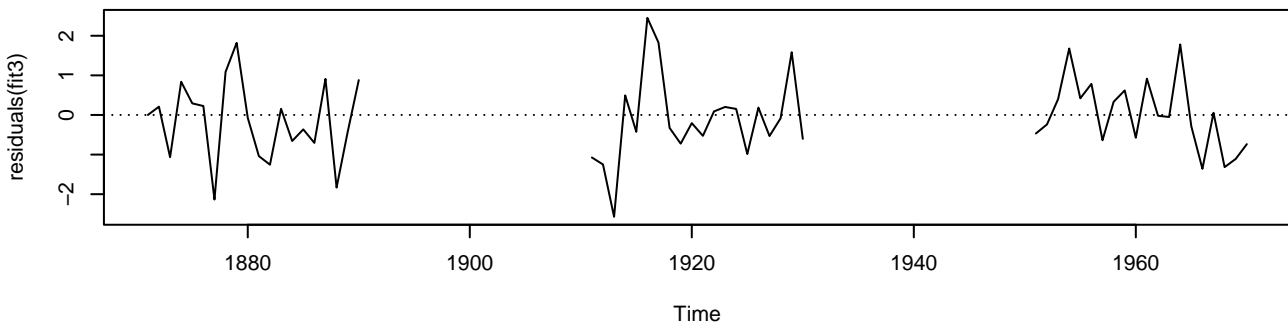
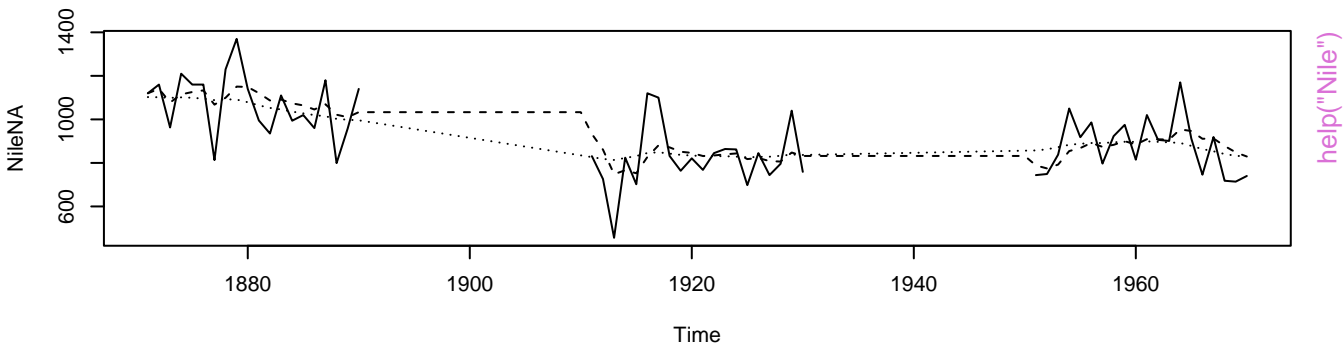


NileNA

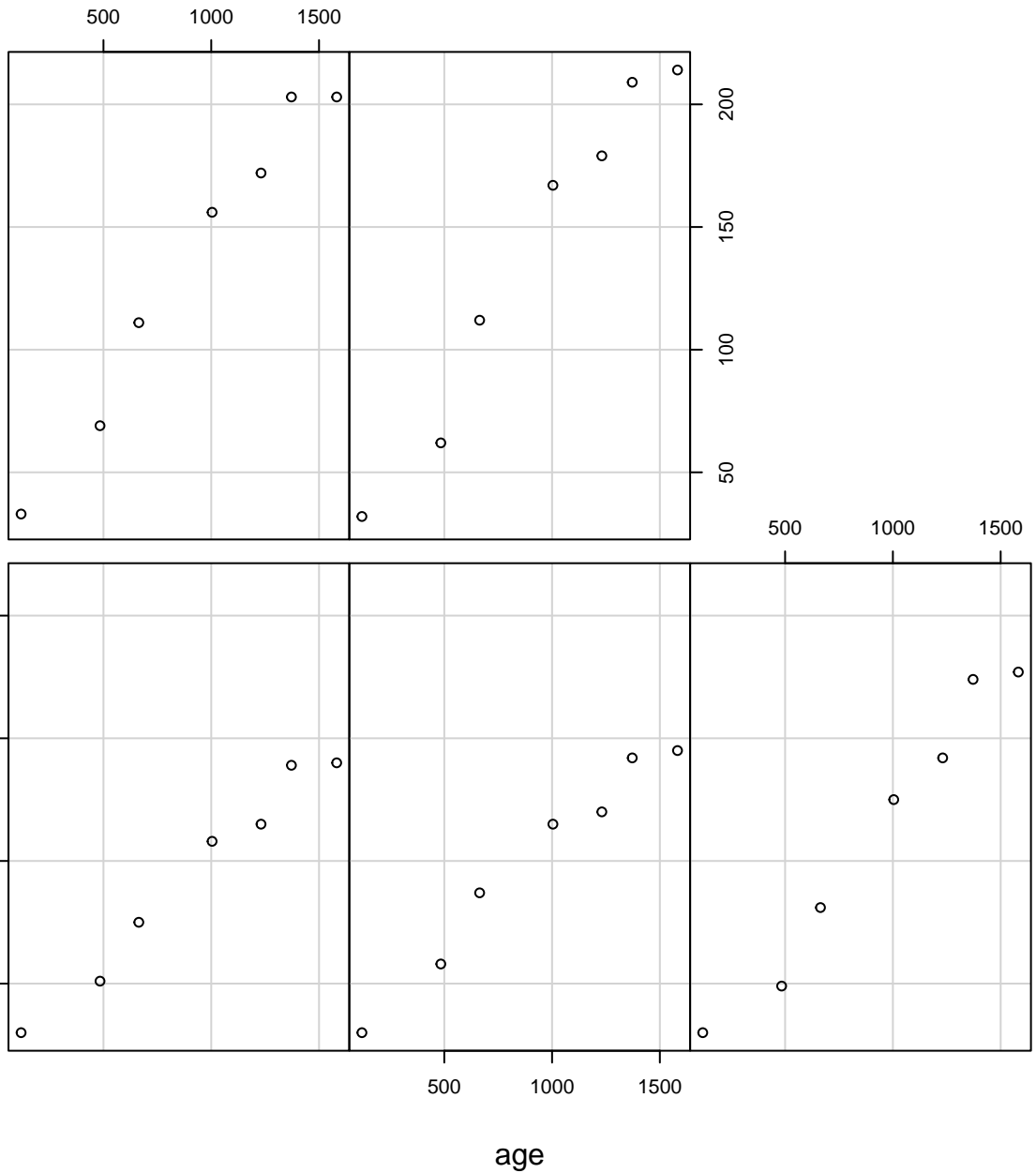


help("Nile")



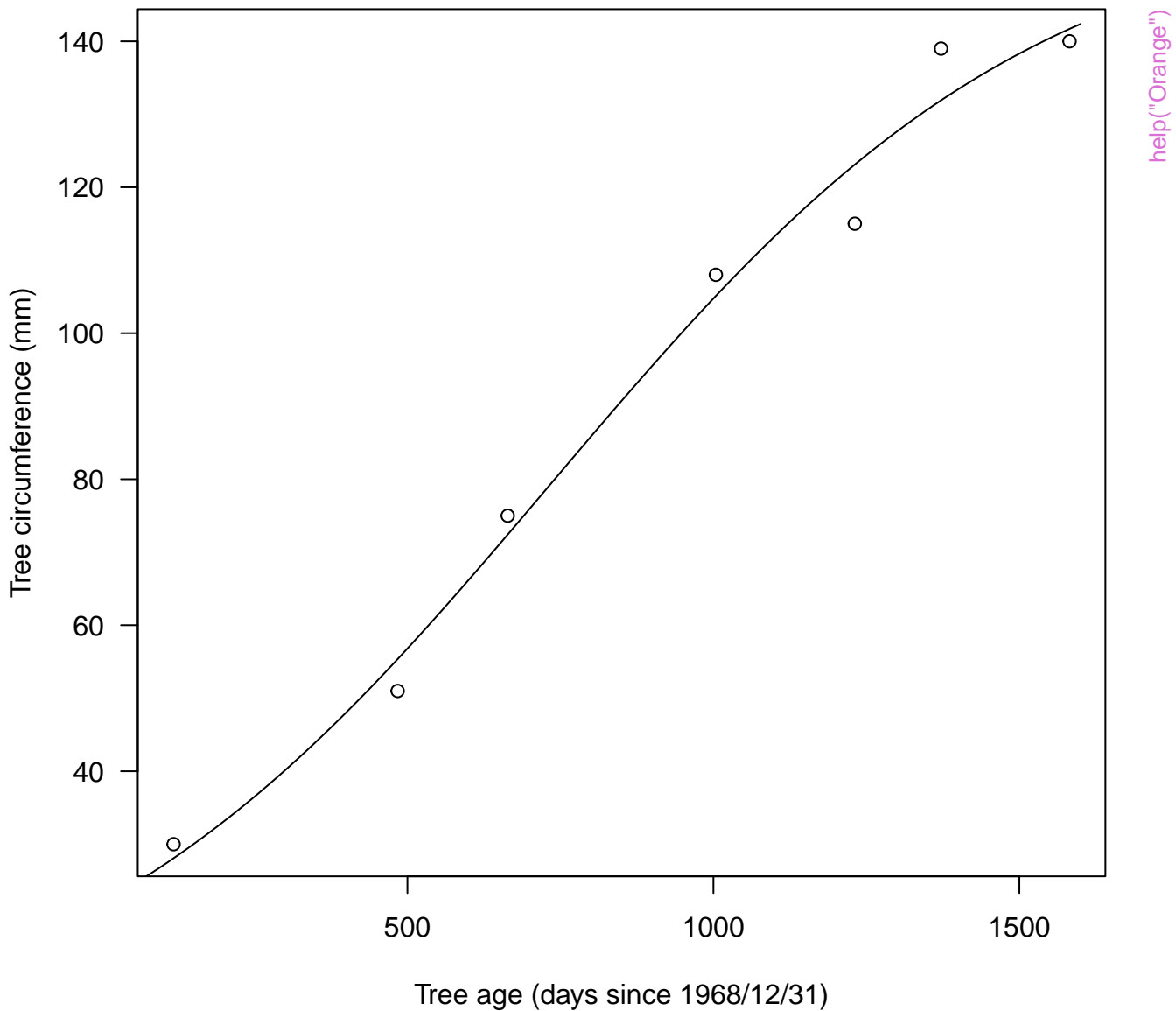


Given : Tree

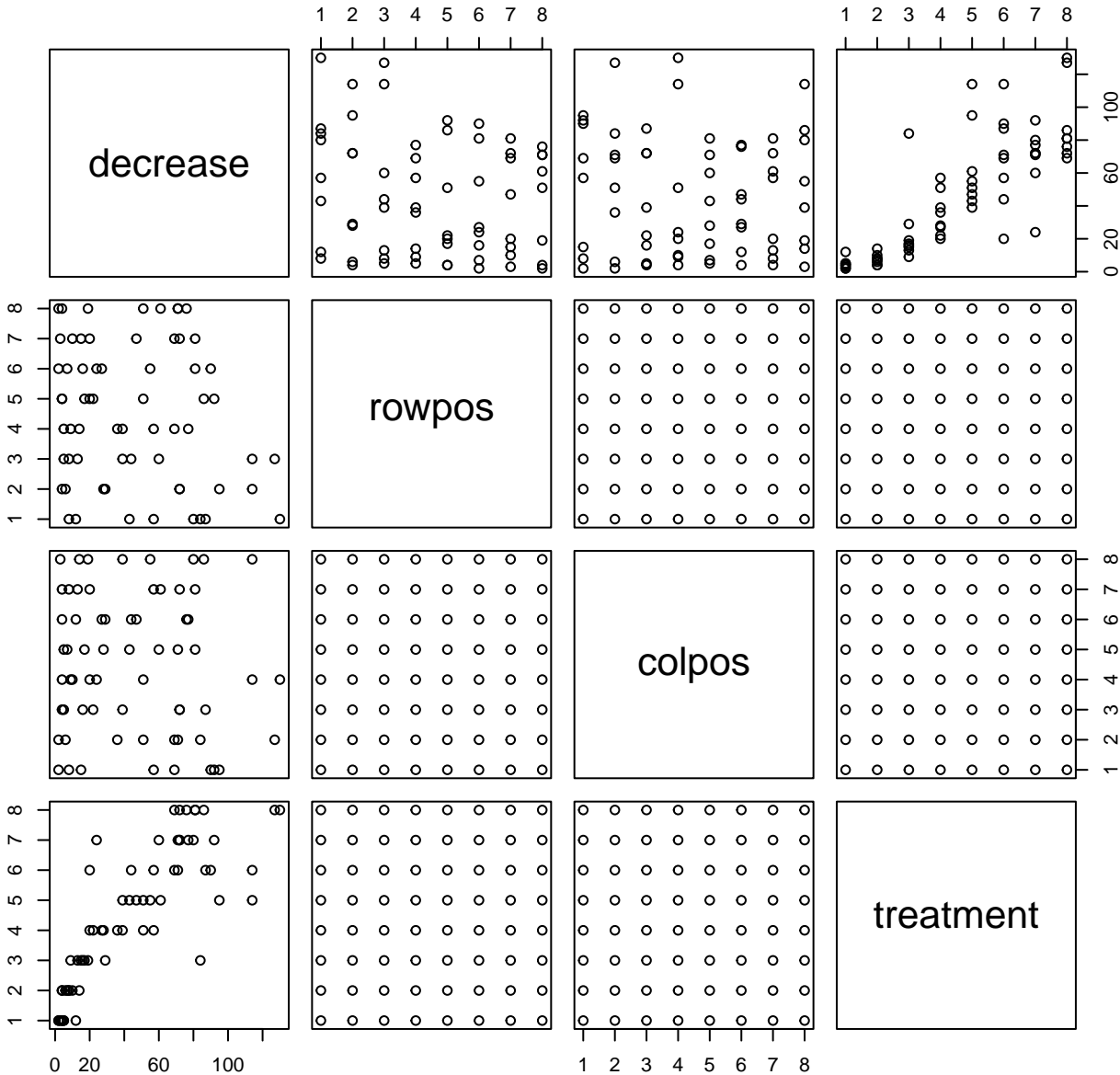




**Orange tree data and fitted model (Tree 3 only)**

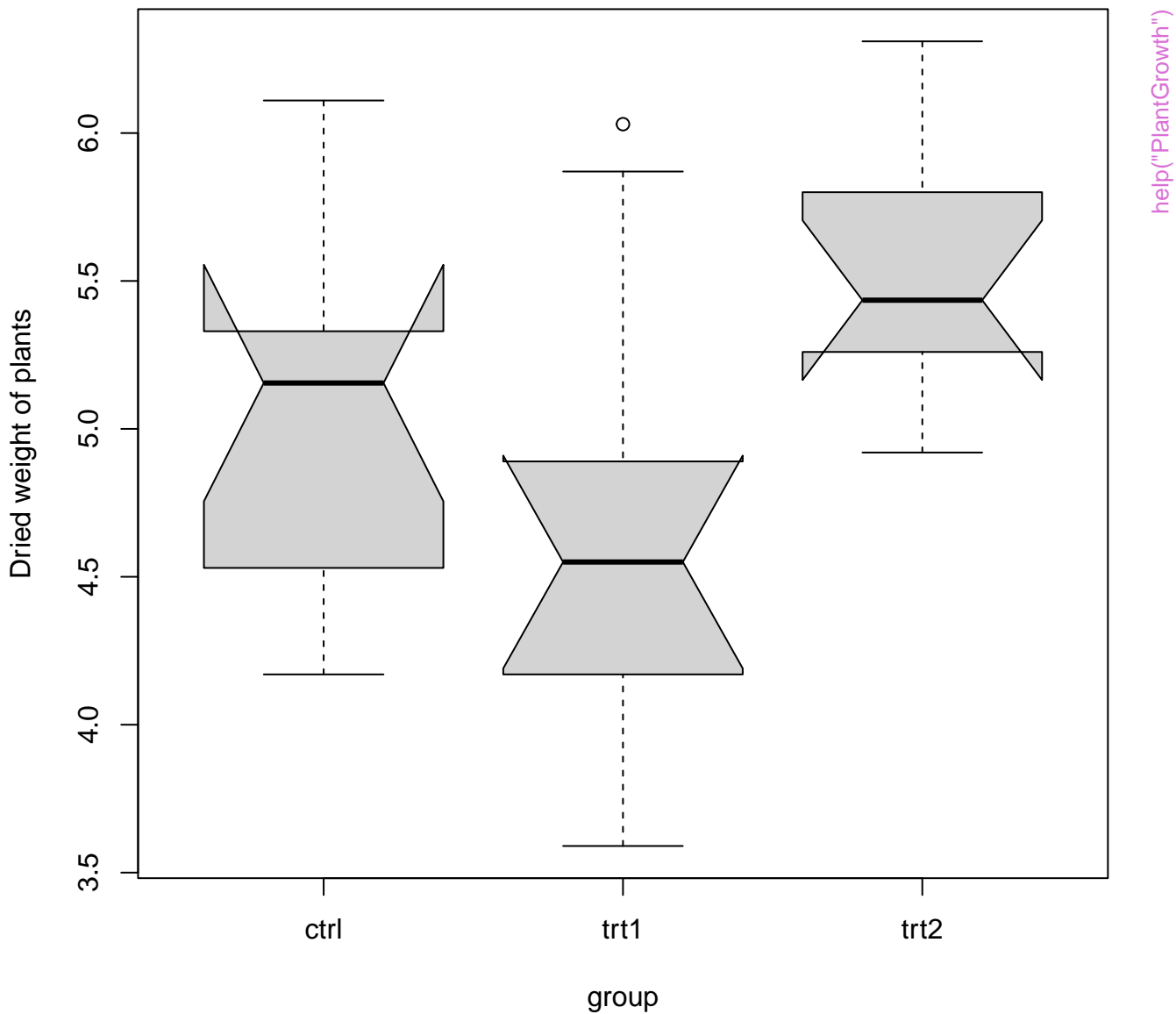


## OrchardSprays data

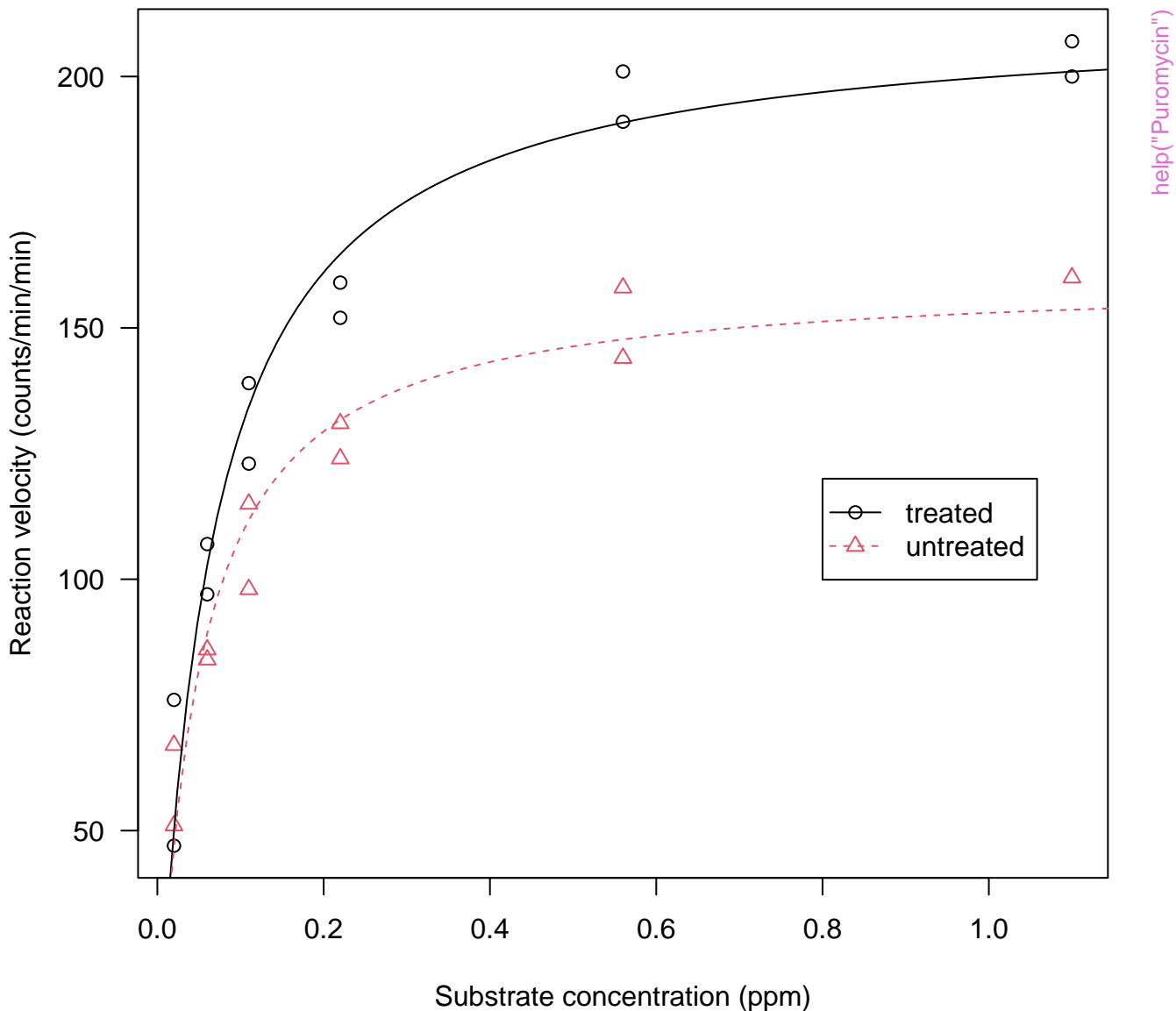


```
help("OrchardSprays")
```

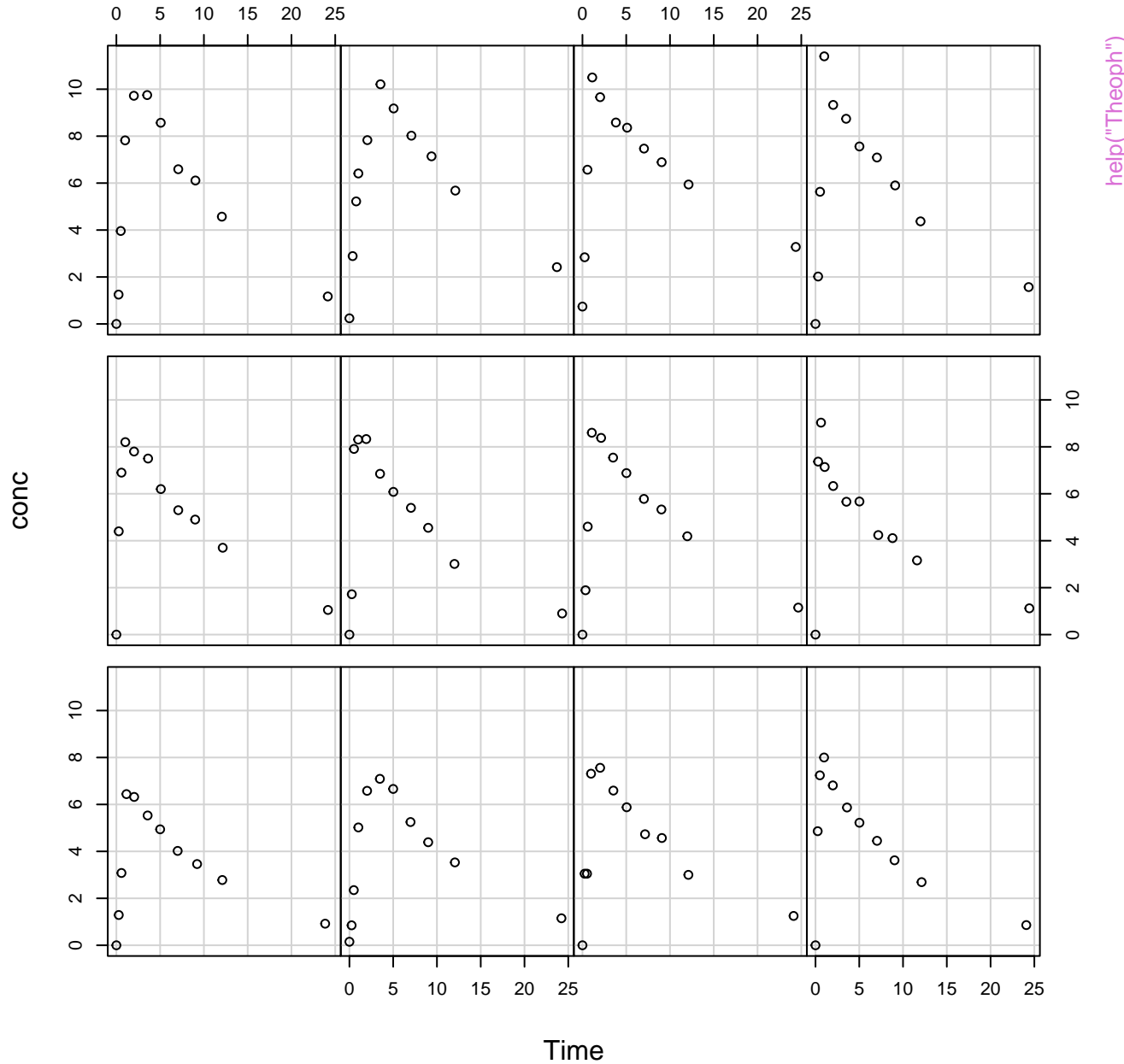
# PlantGrowth data



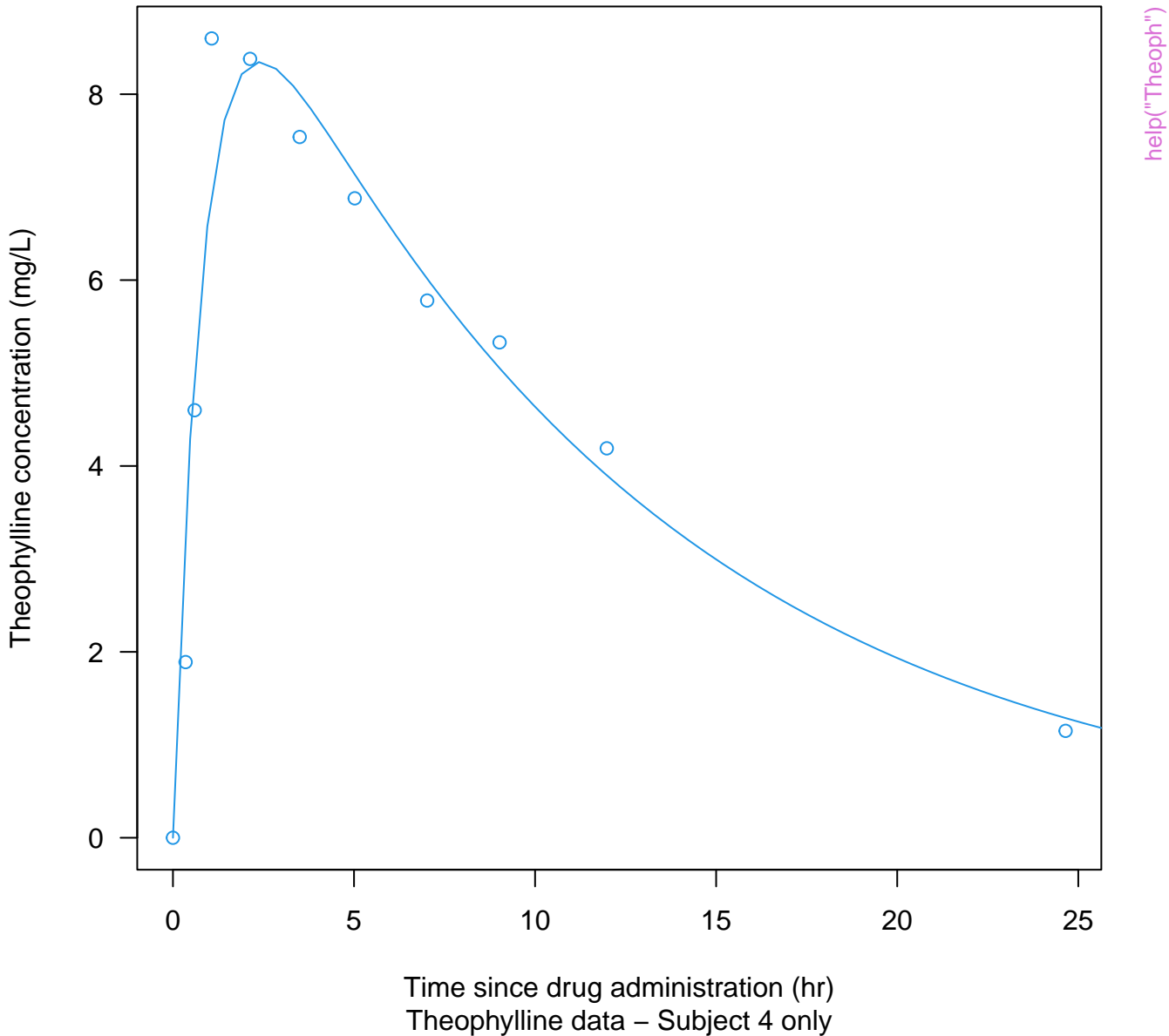
Puromycin data and fitted Michaelis–Menten curves



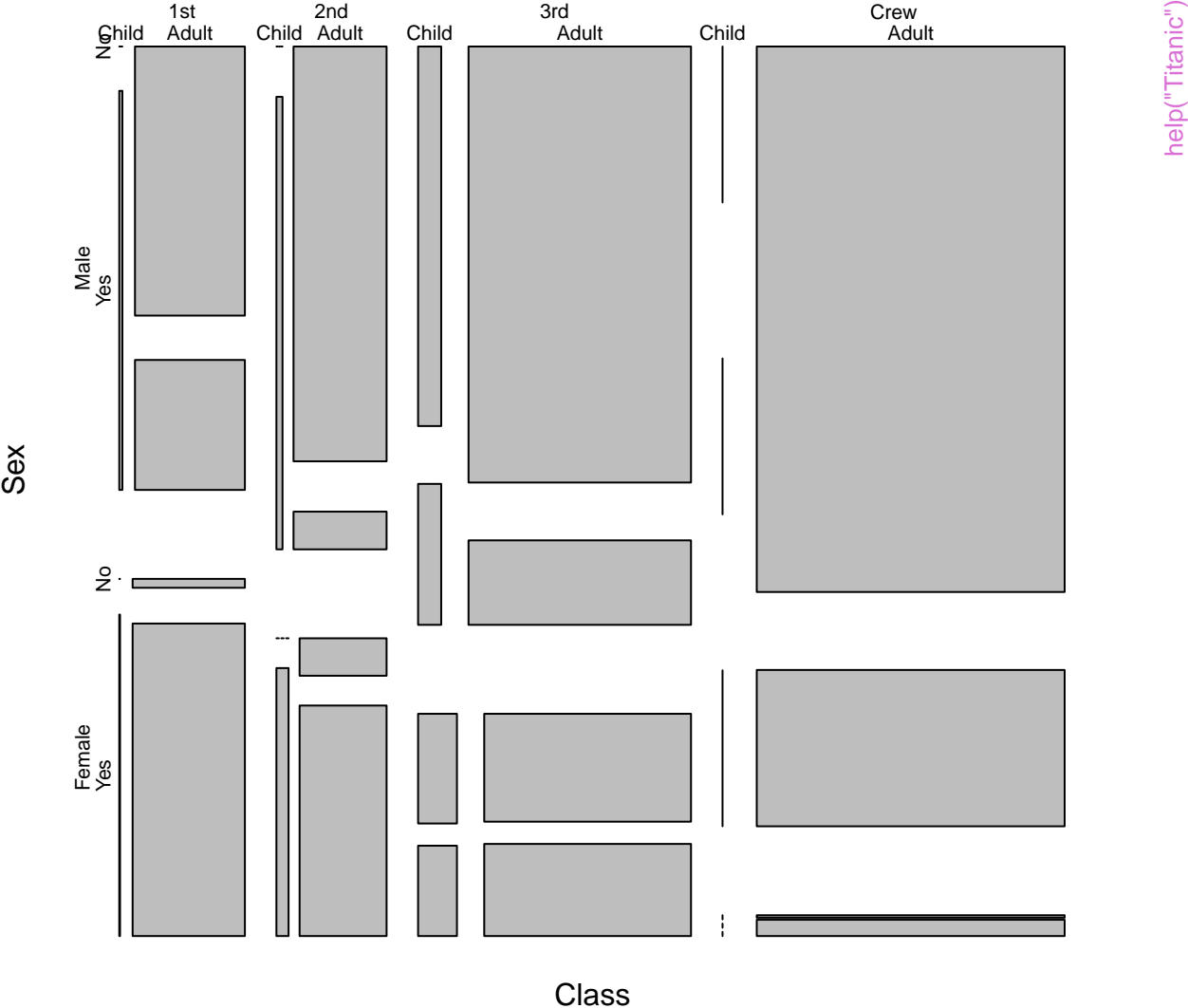
Given : Subject



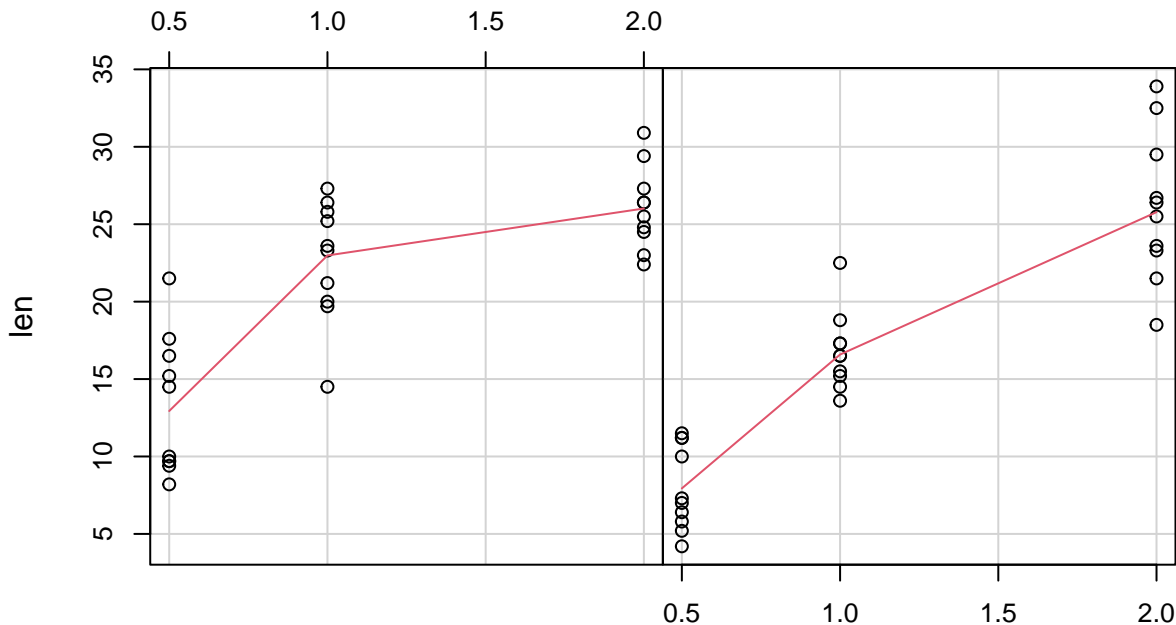
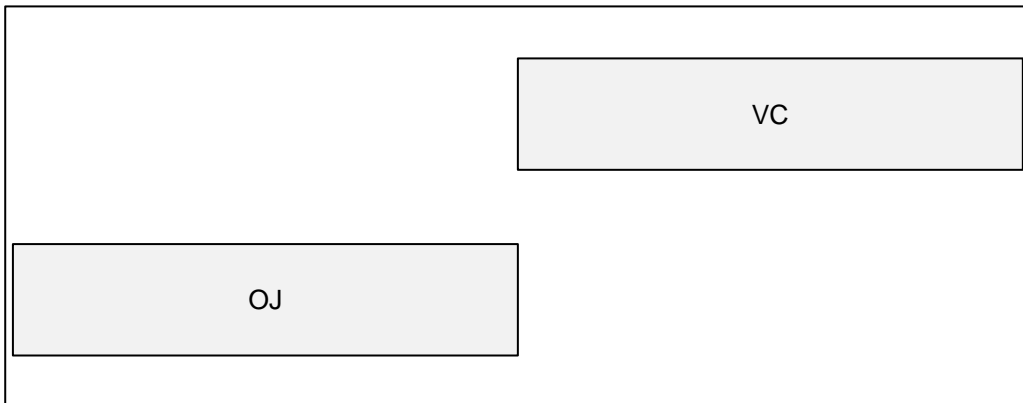
## Observed concentrations and fitted model



Survival on the Titanic



Given : supp

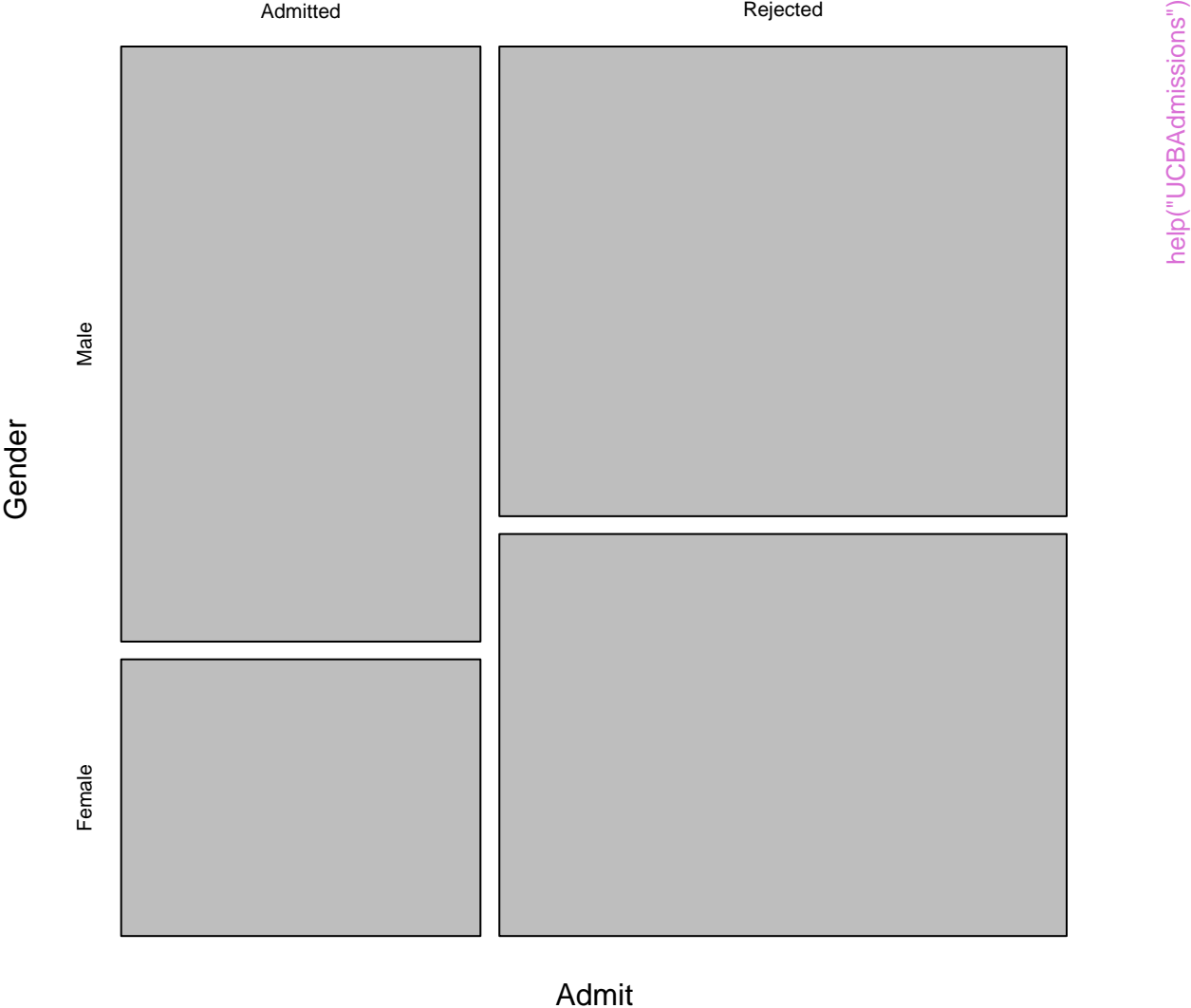


ToothGrowth data: length vs dose, given type of supplement

help("ToothGrowth")

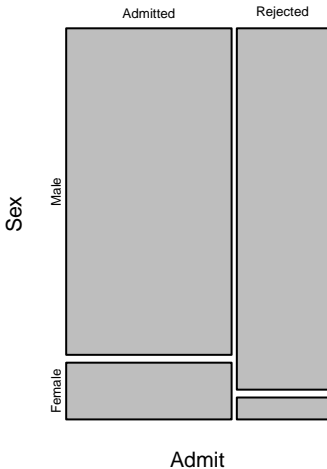


# Student admissions at UC Berkeley

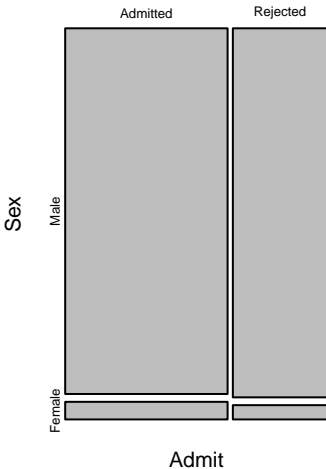


# Student admissions at UC Berkeley

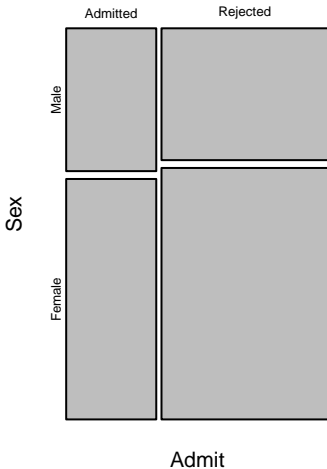
Department A



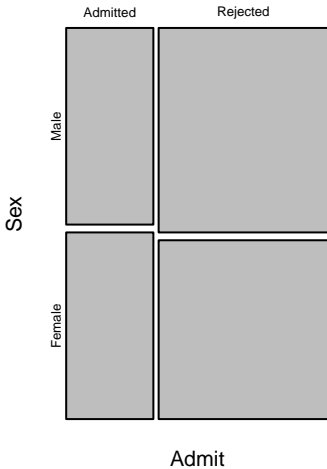
Department B



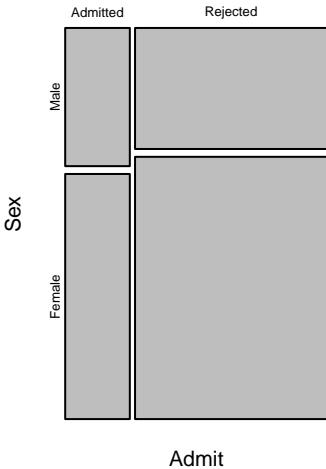
Department C



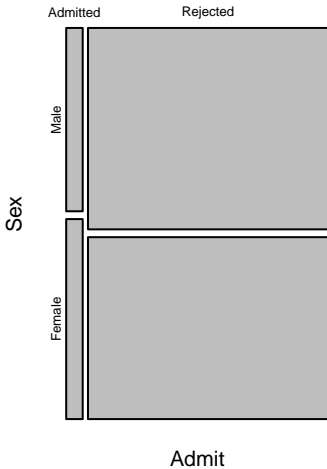
Department D



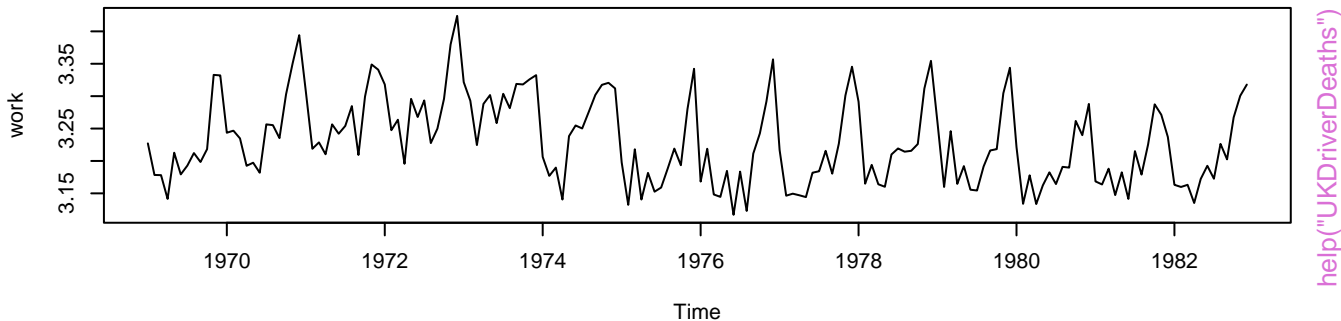
Department E



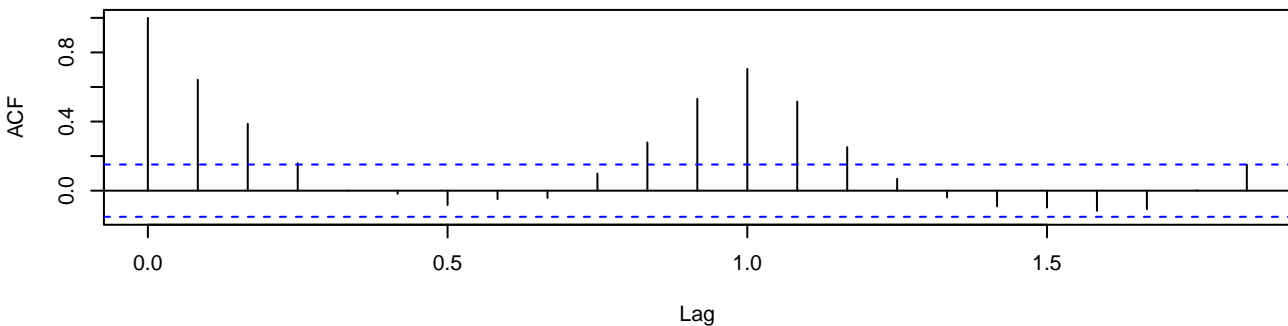
Department F



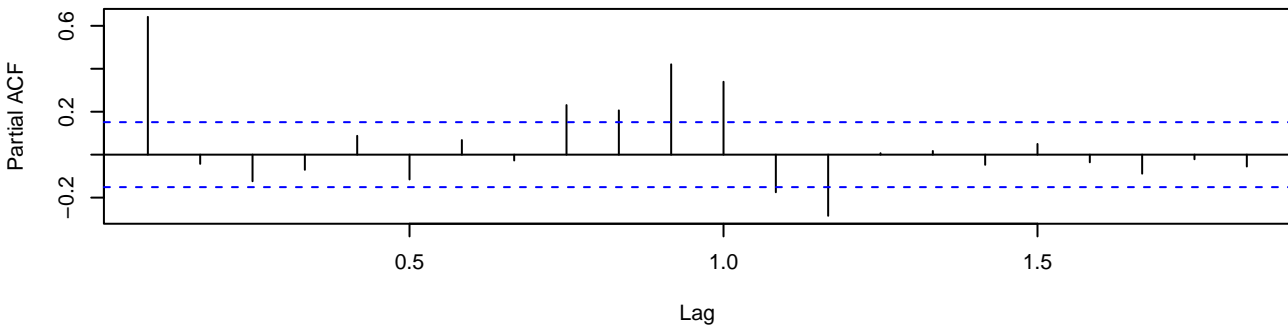
help("UCBAdmissions")

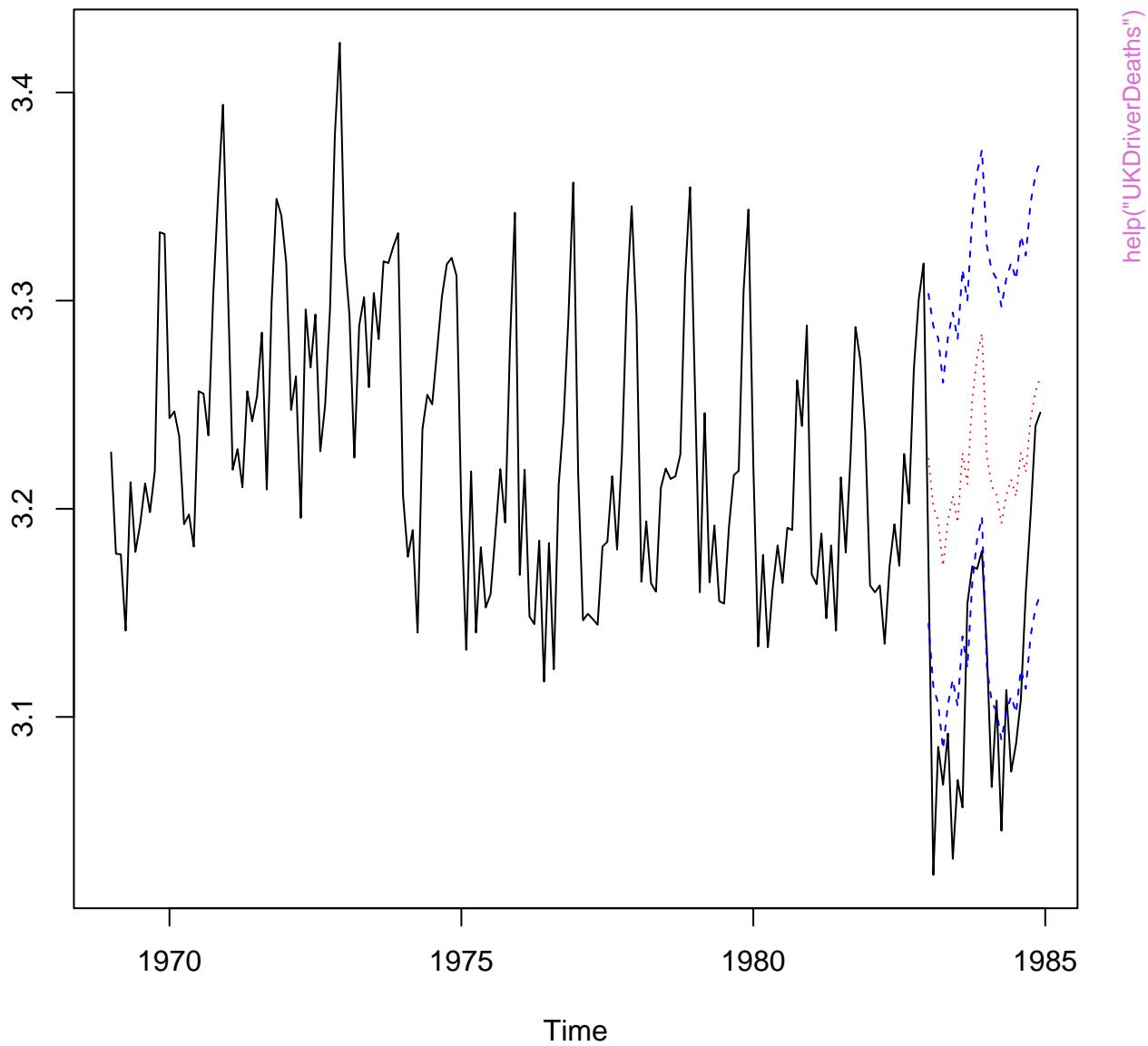


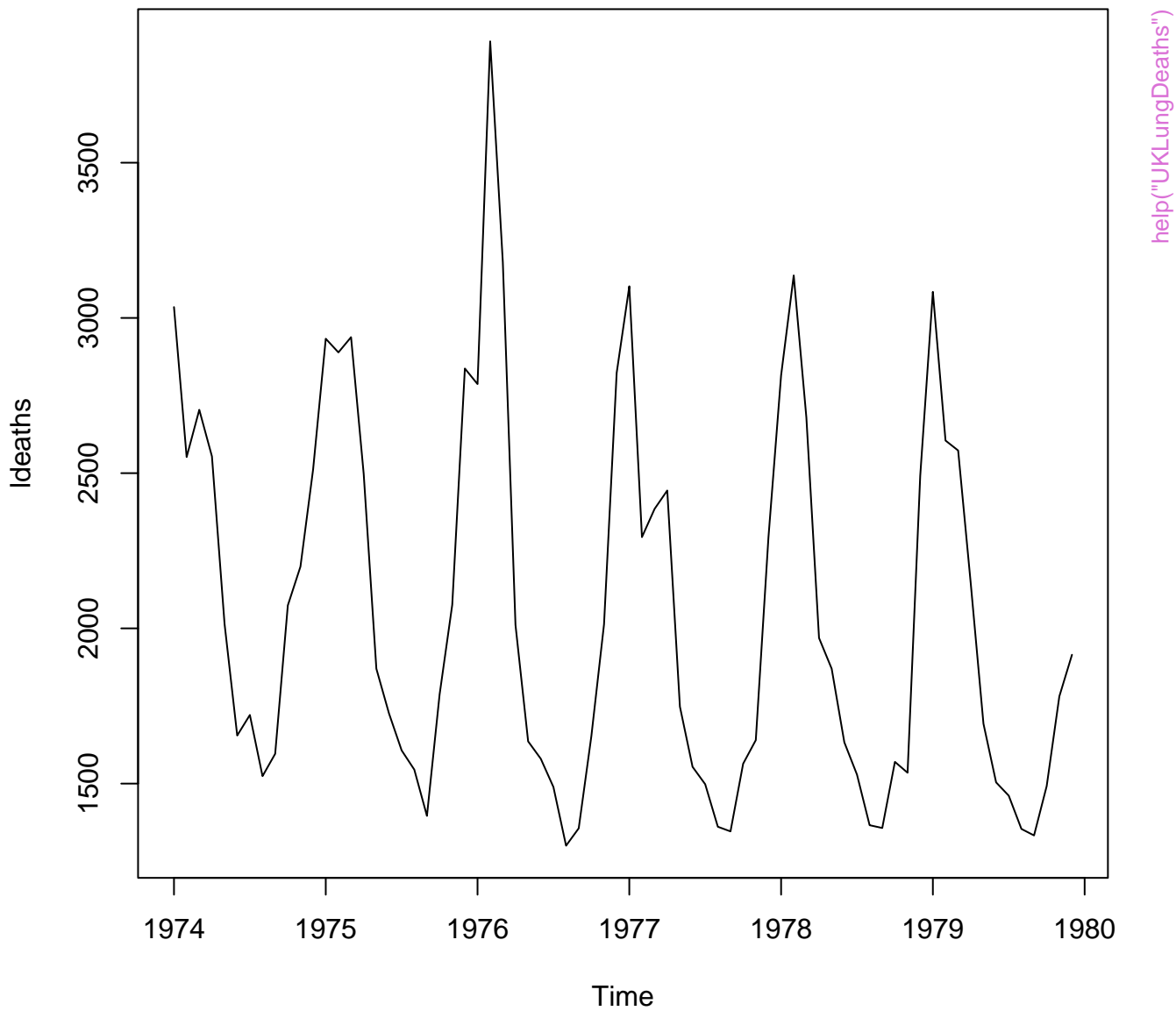
Series work

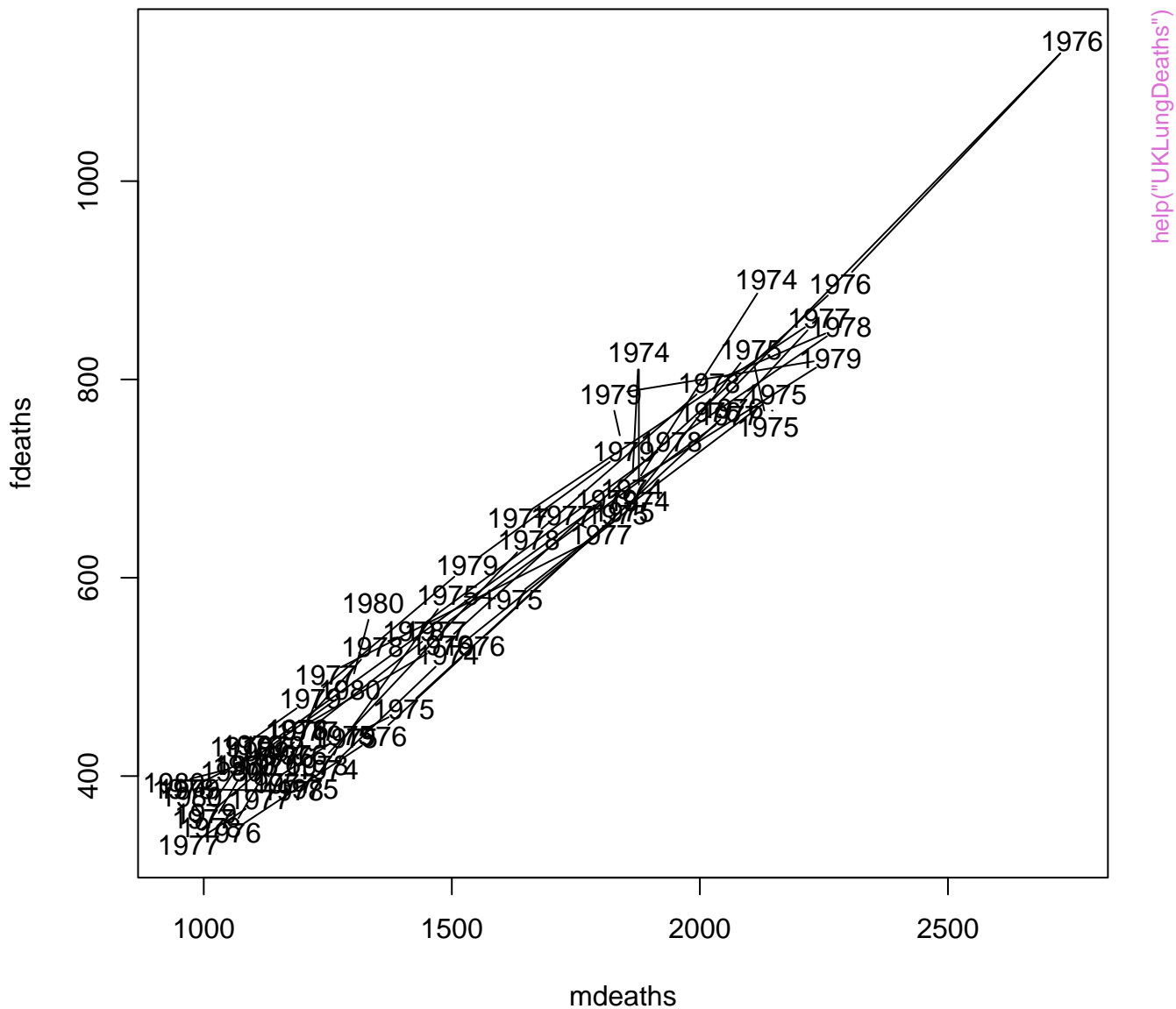


Series work



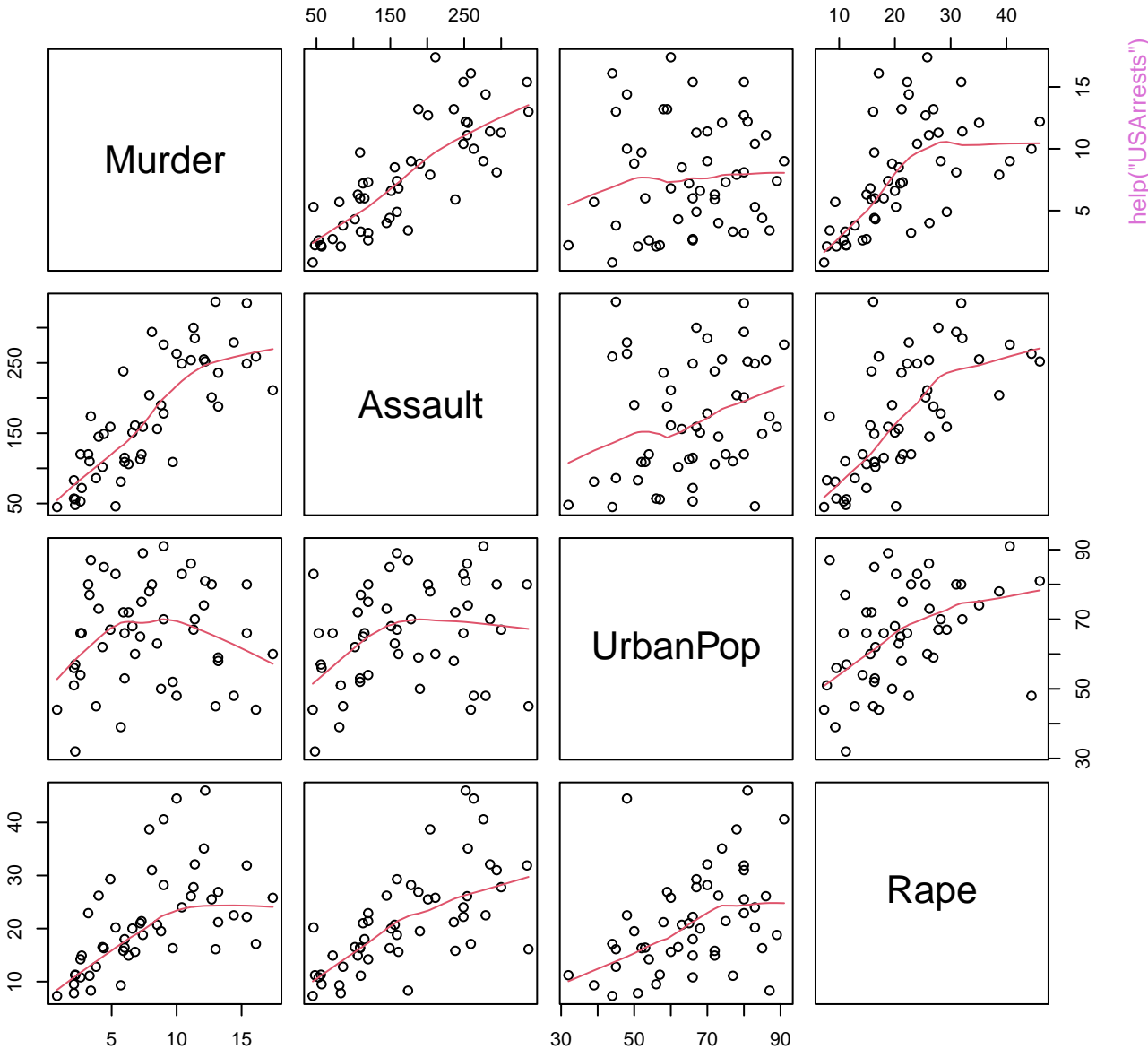






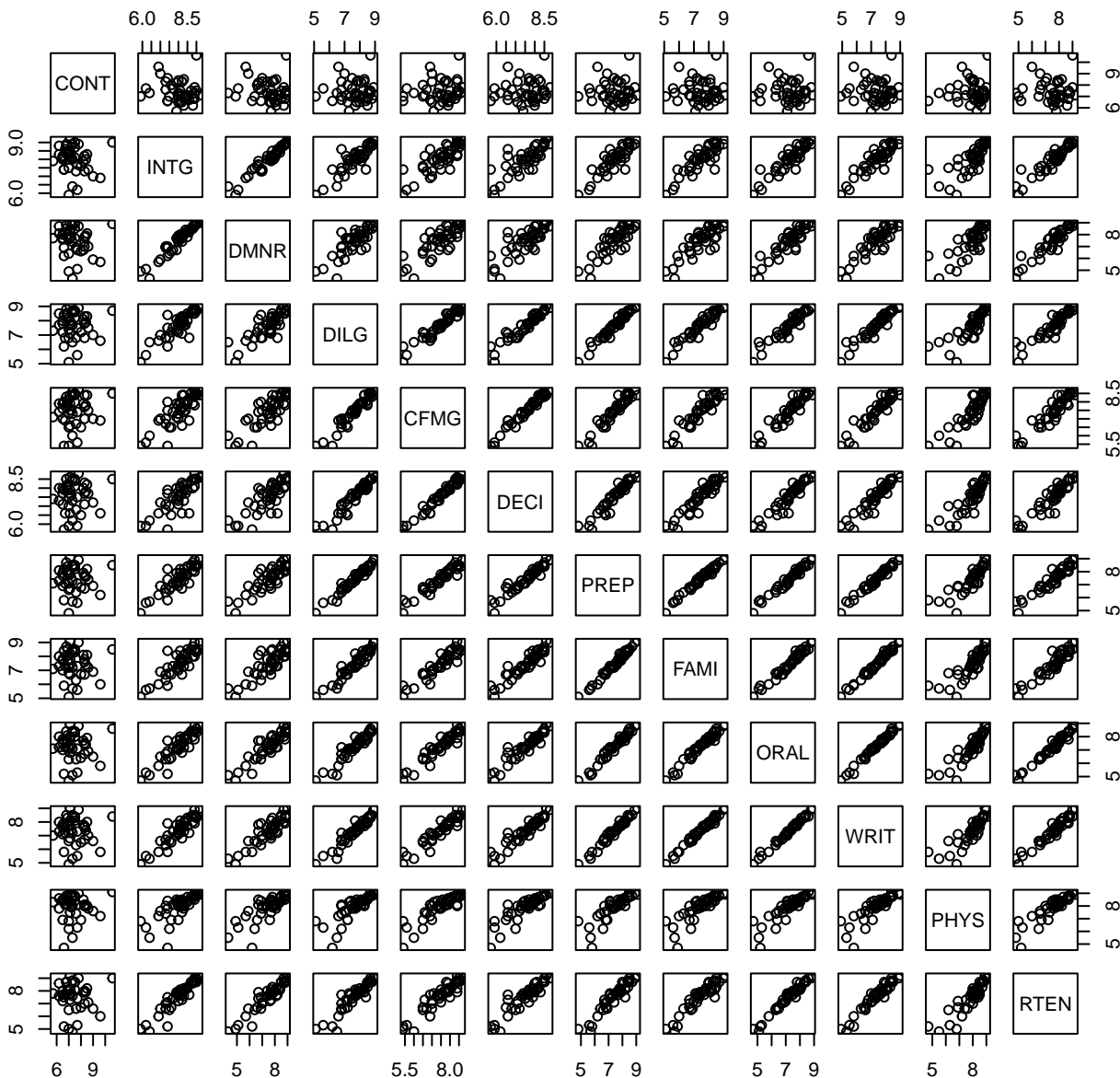


# USArrests data



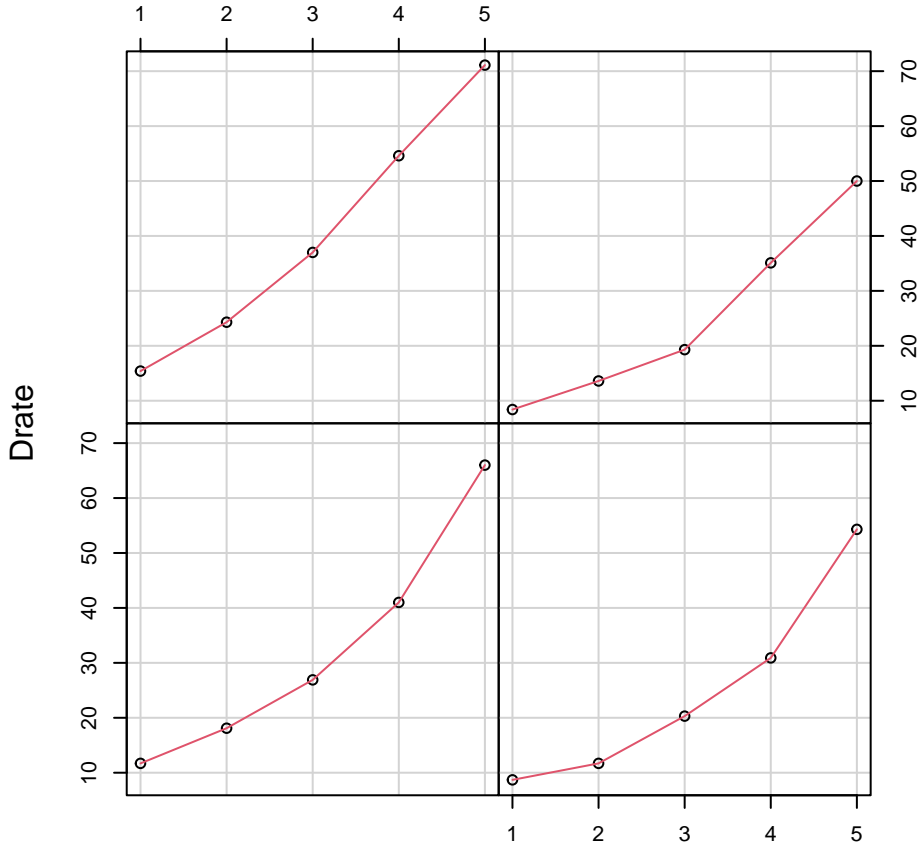
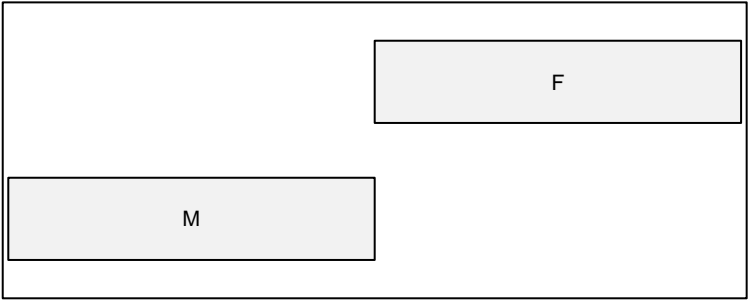


# USJudgeRatings data

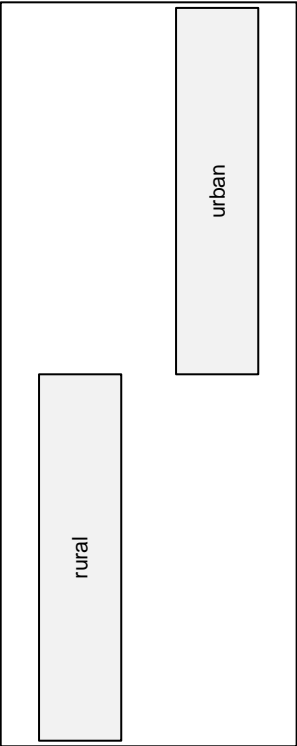


help("USJudgeRatings")

Given : gender



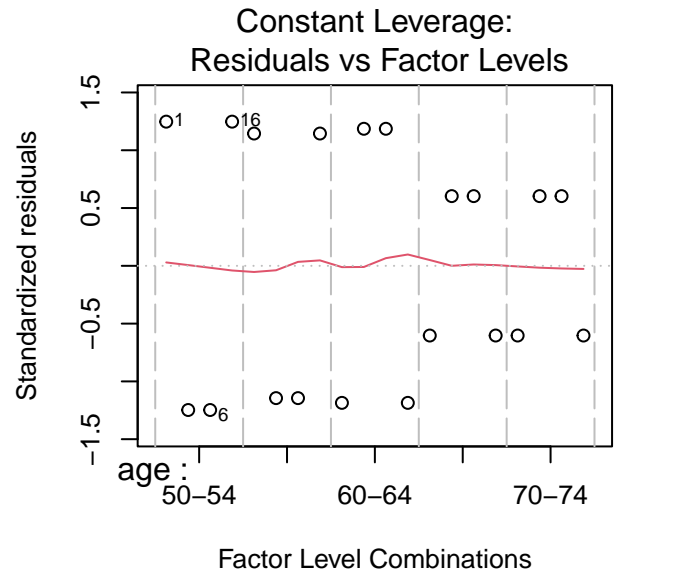
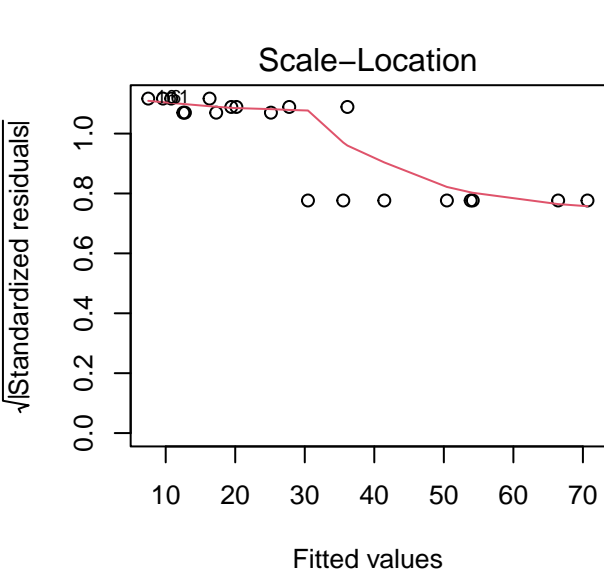
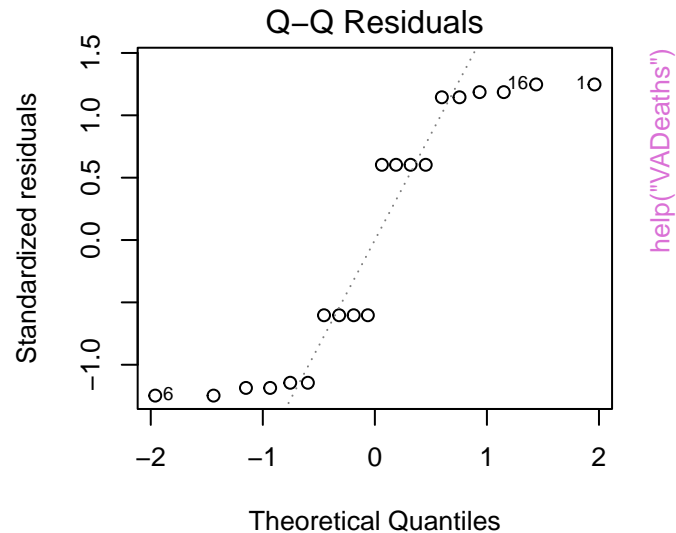
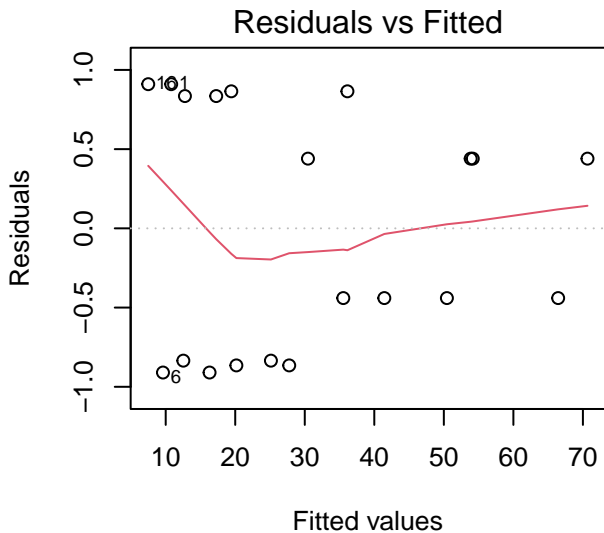
VADeaths data – Given: gender



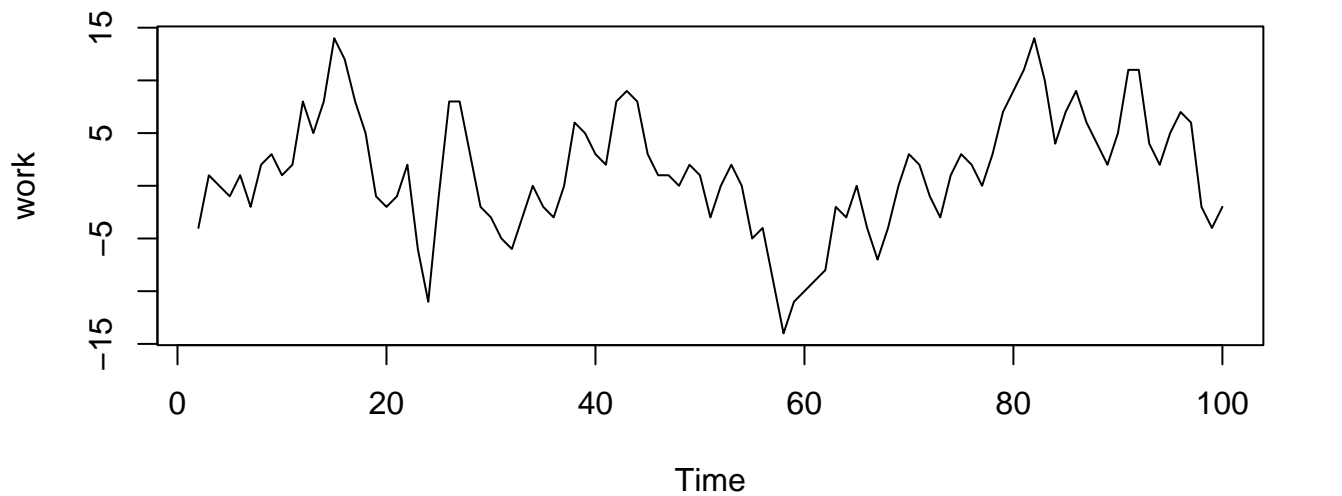
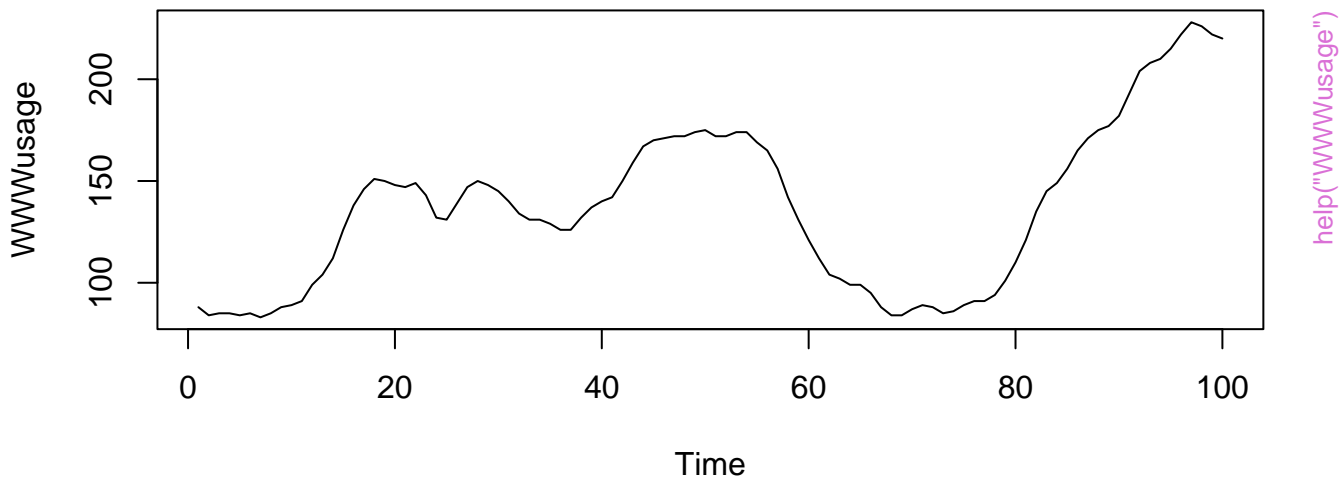
Given : site

help("VADeaths")

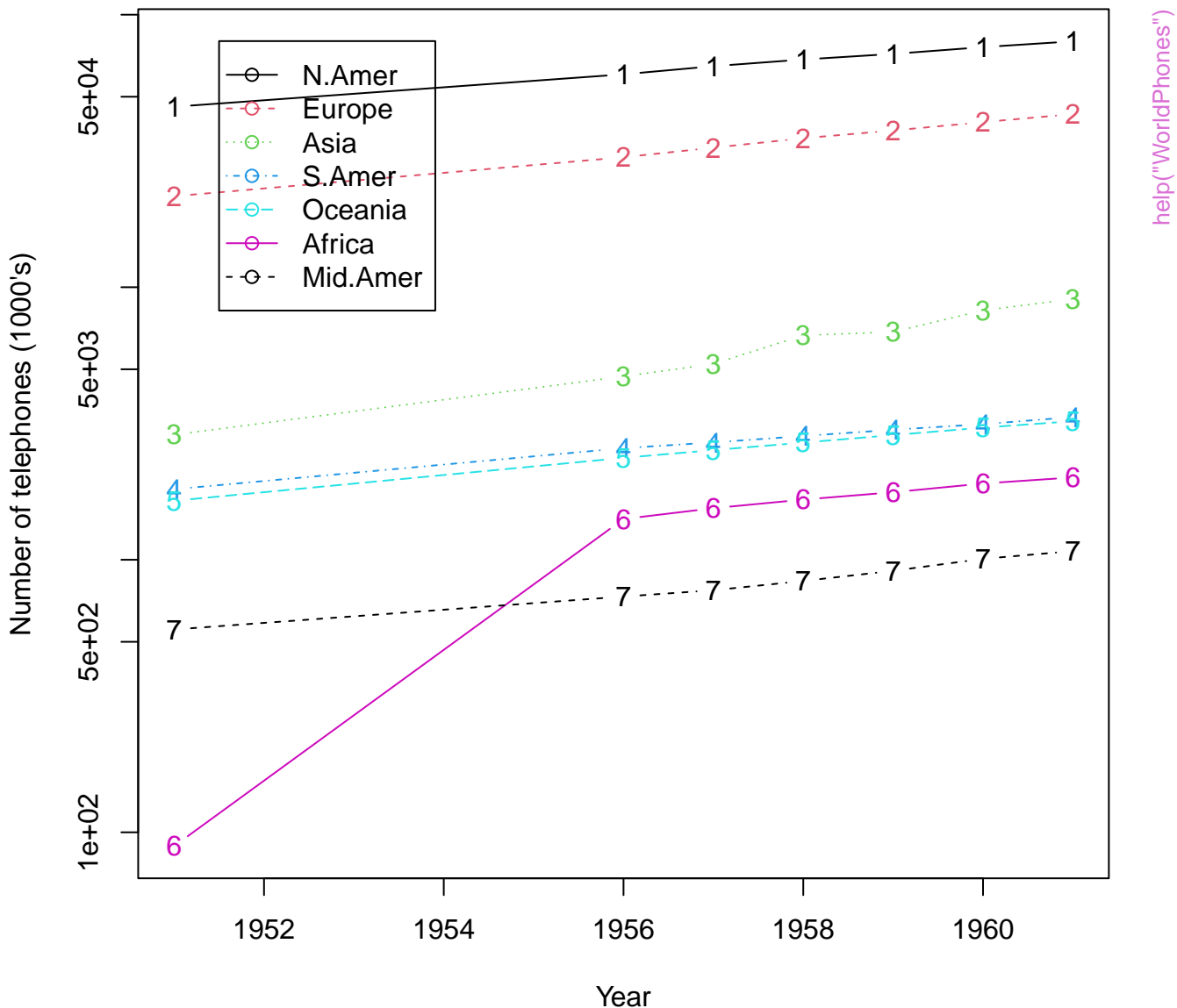
aov(Drate ~ .^2)



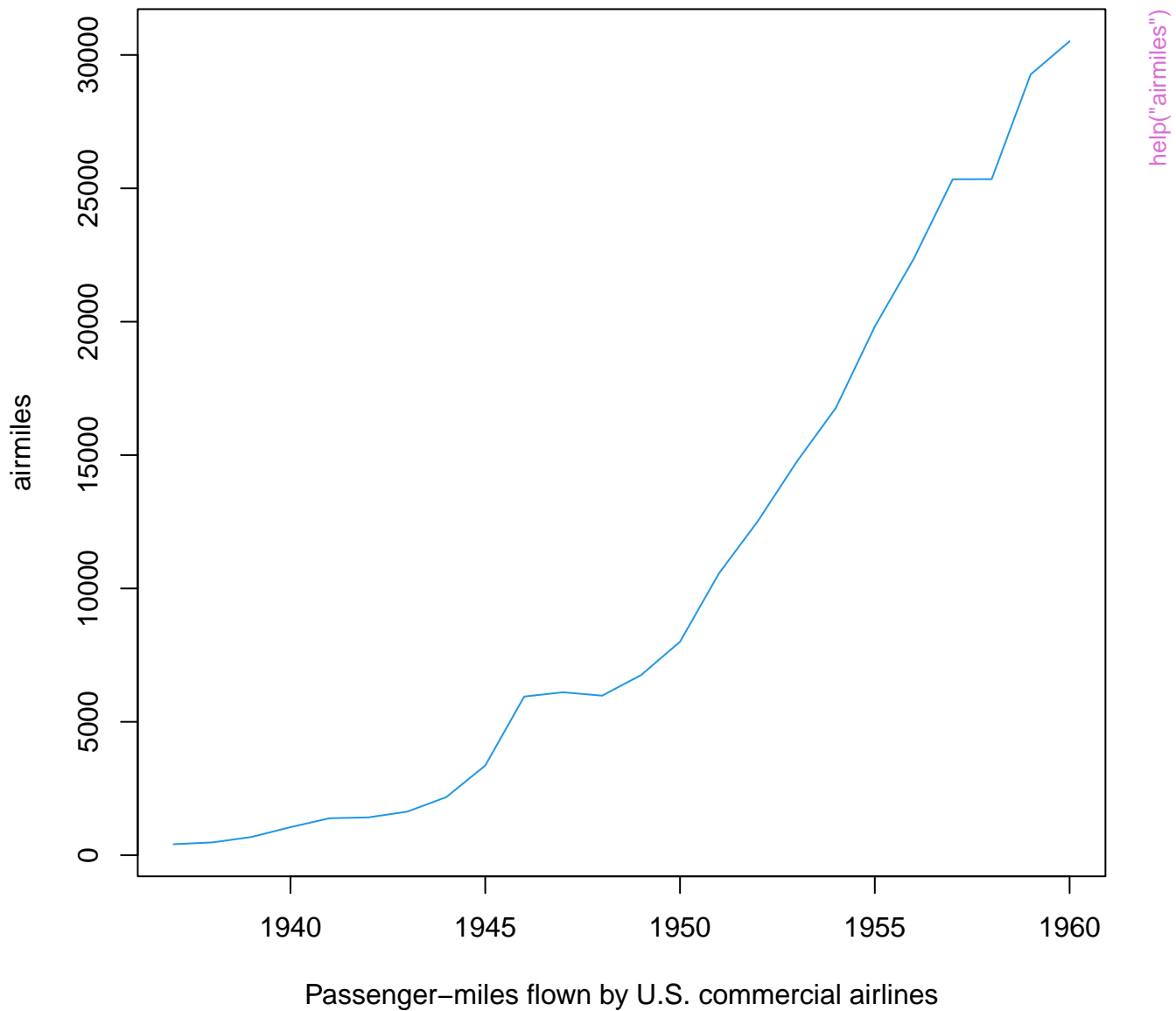
help("VADeaths")



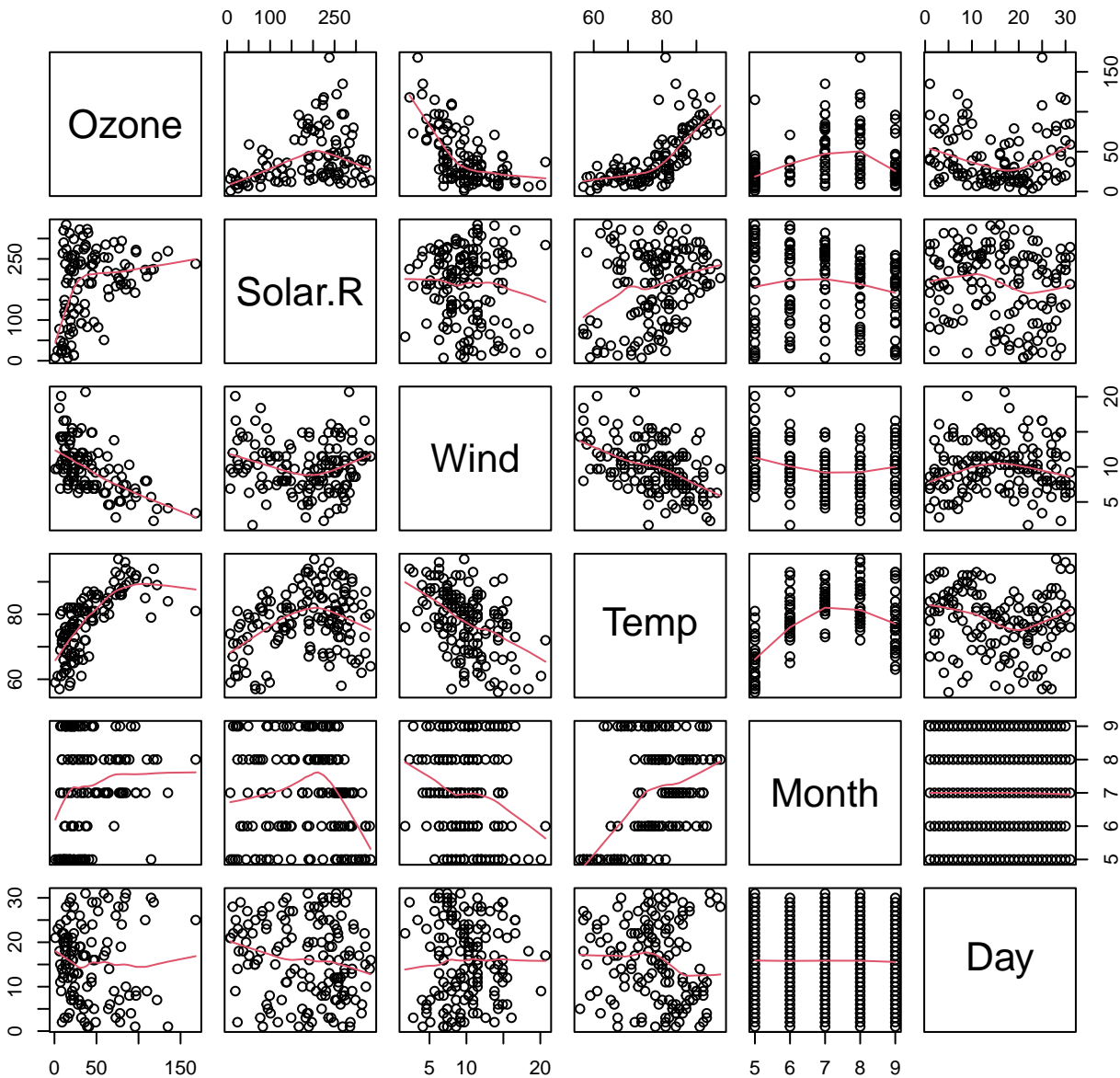
# World phones data: log scale for response



## airmiles data

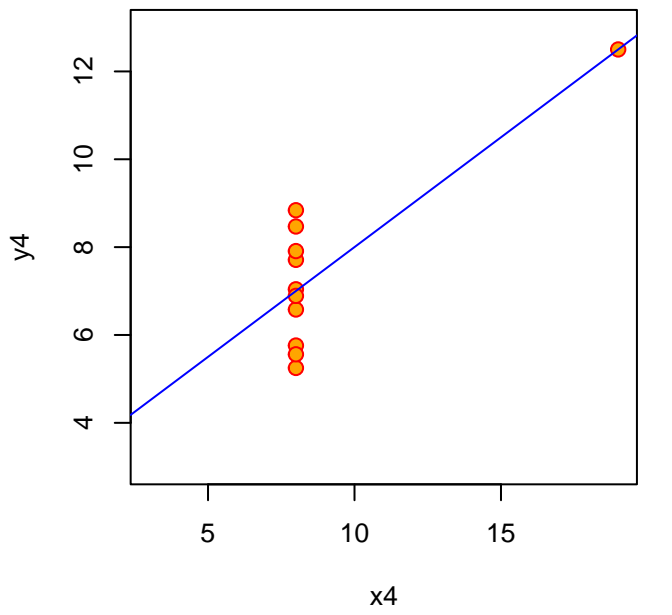
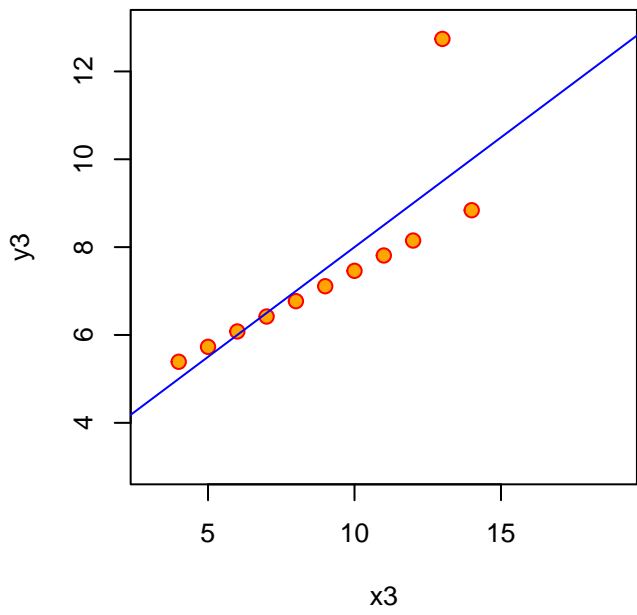
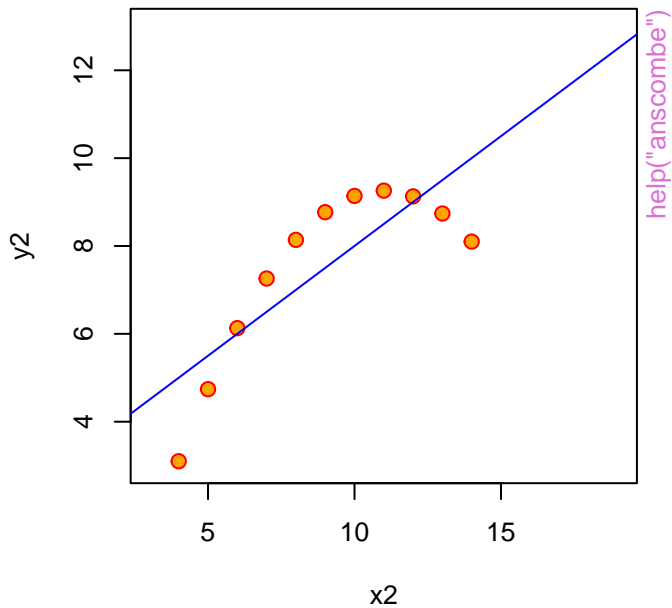
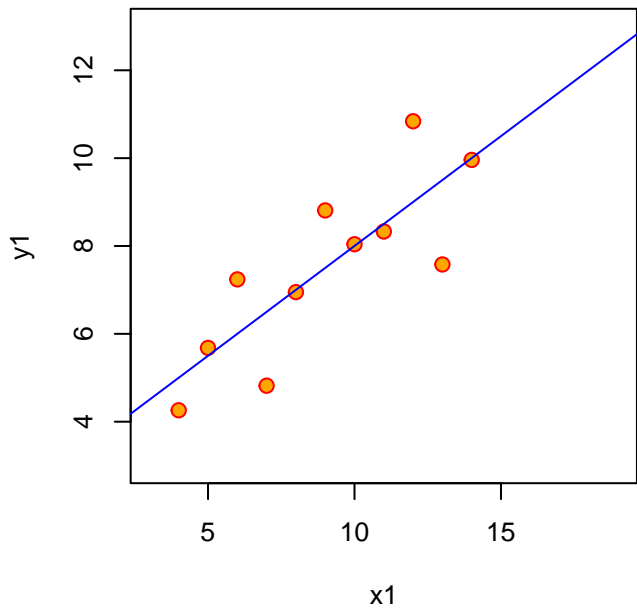


# airquality data



help("airquality")

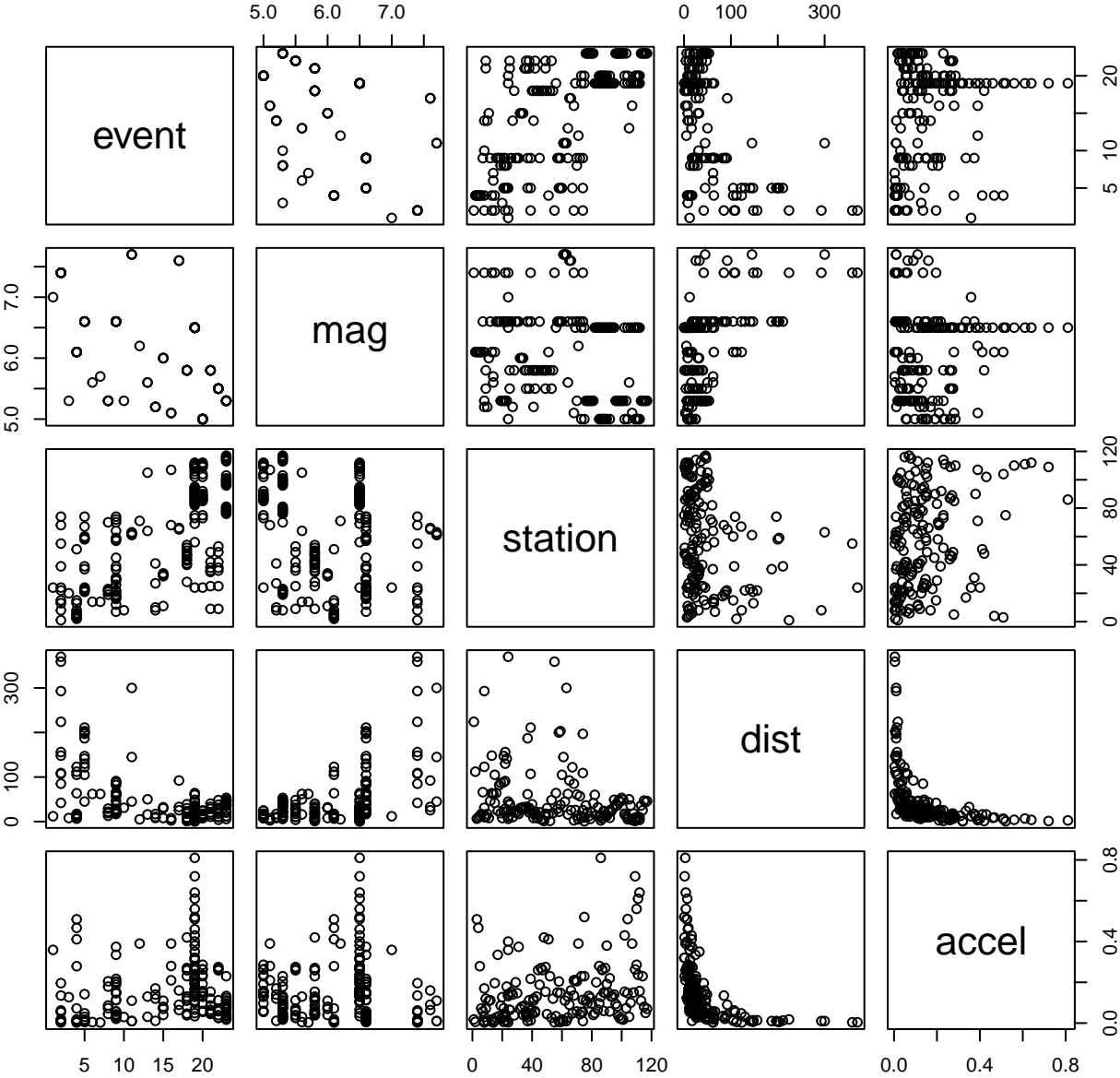
# Anscombe's 4 Regression data sets



help("anscombe")

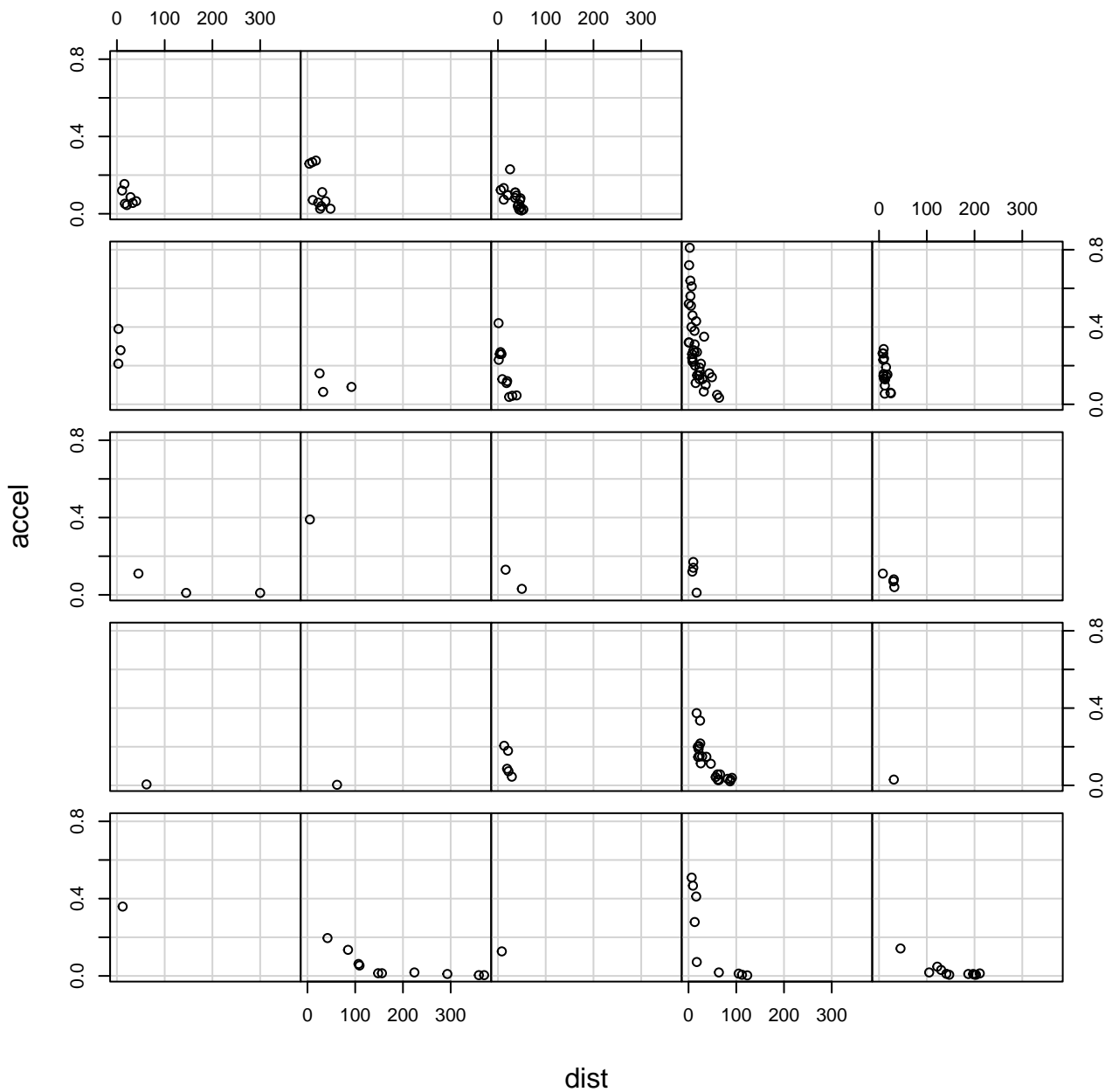


attenu data

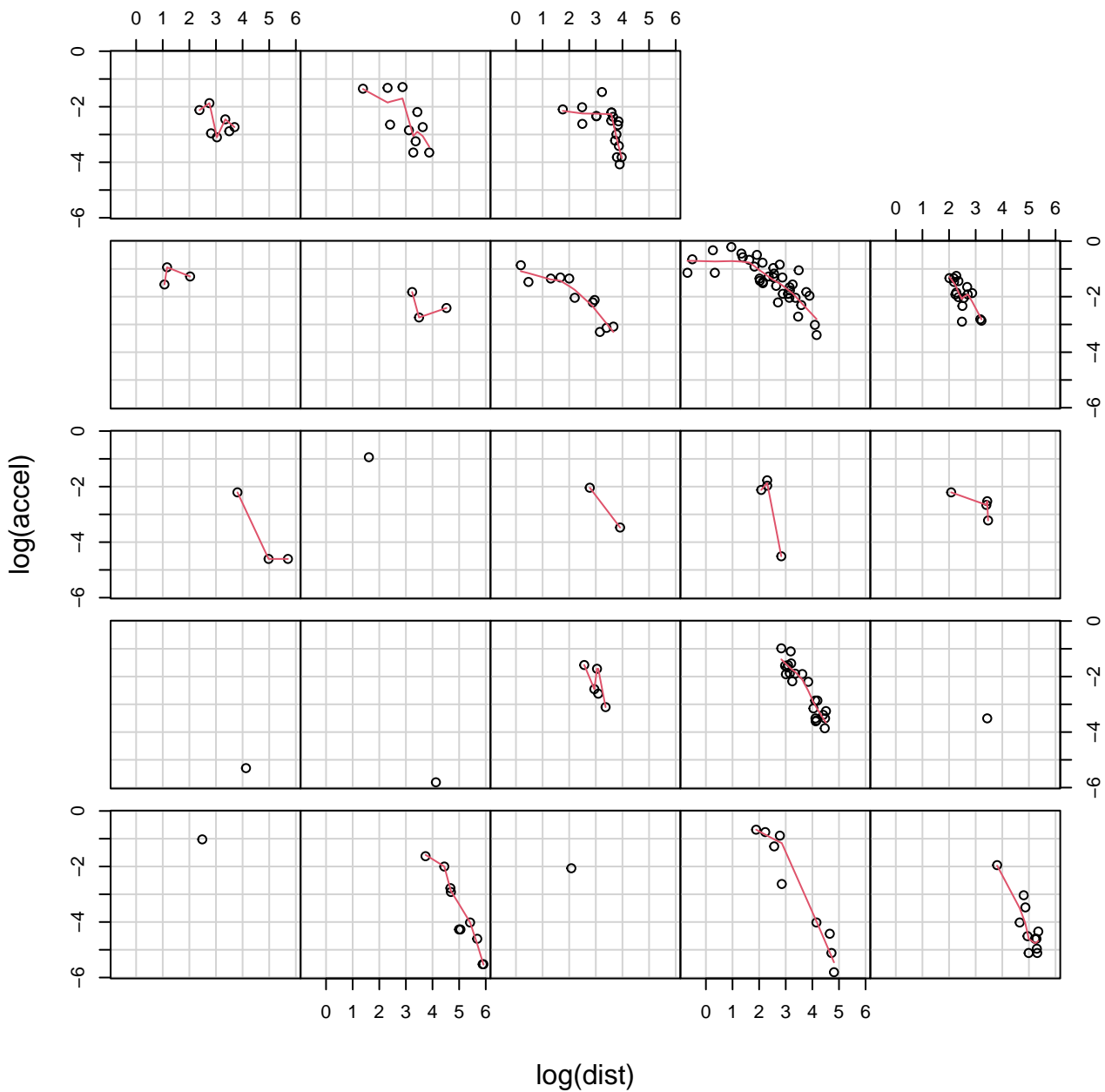


help("attenu")

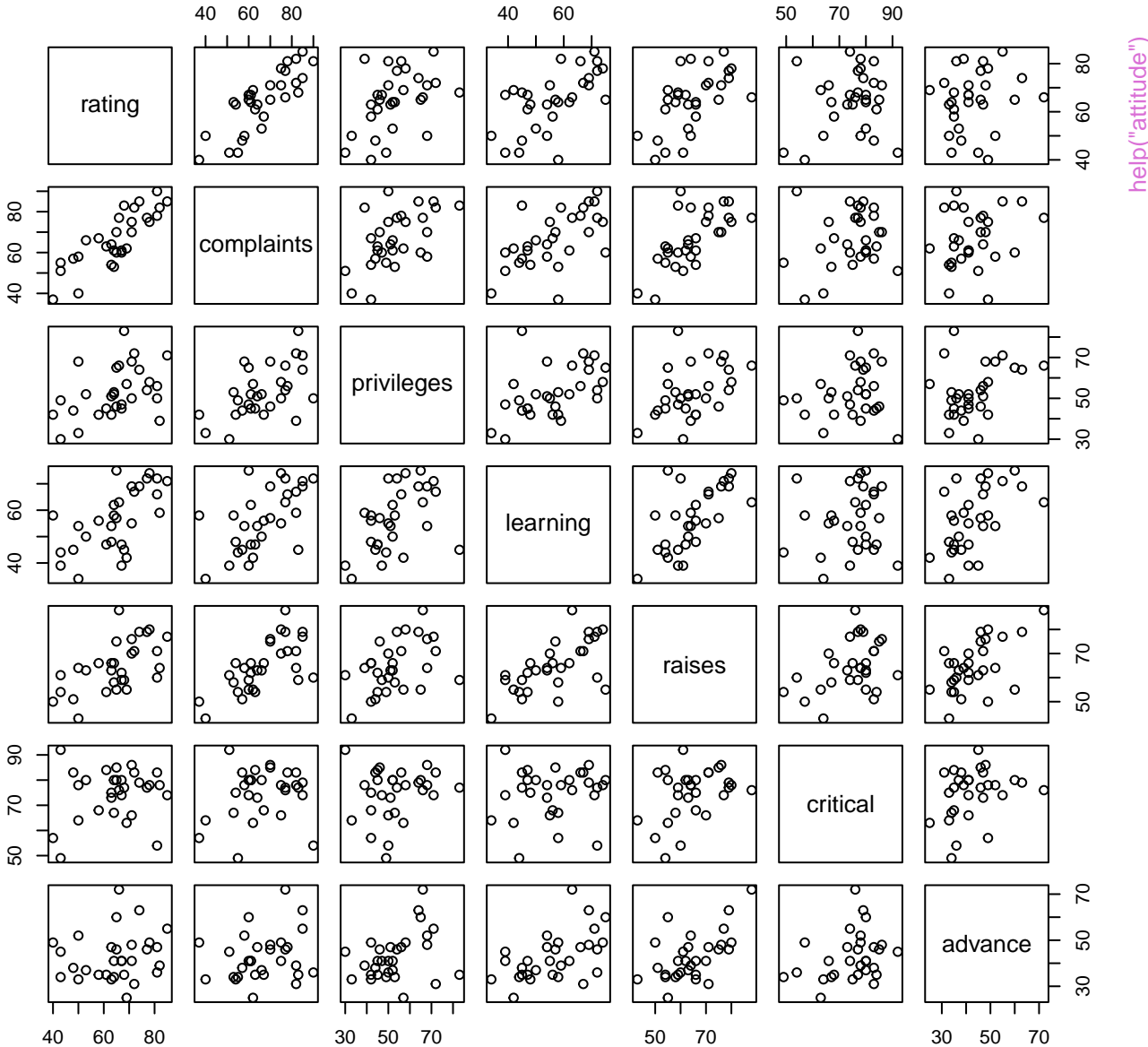
Given : as.factor(event)



Given : as.factor(event)

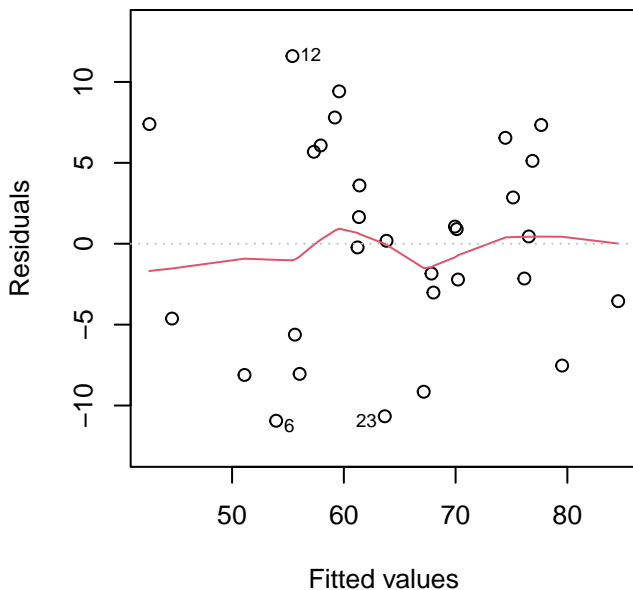


# attitude data

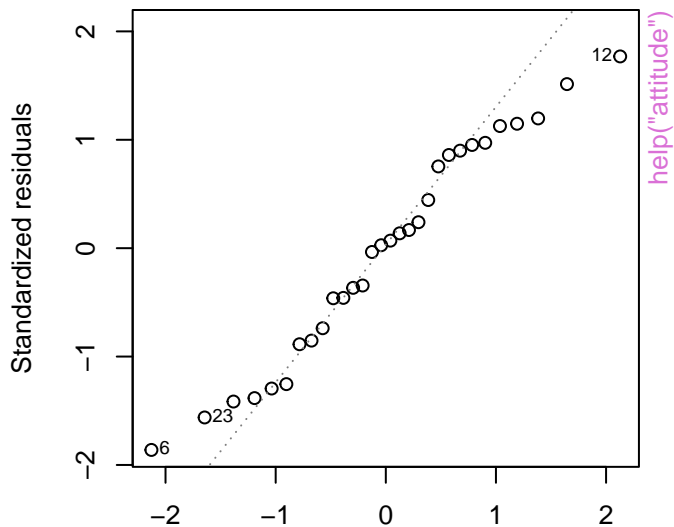


lm(rating ~ .)

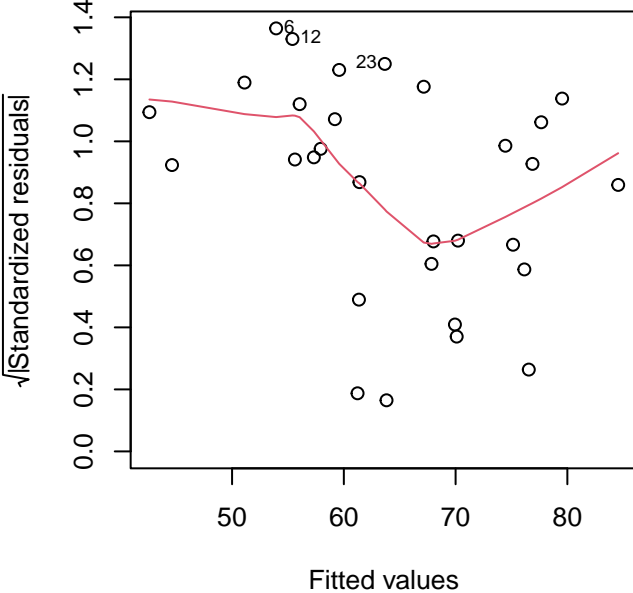
Residuals vs Fitted



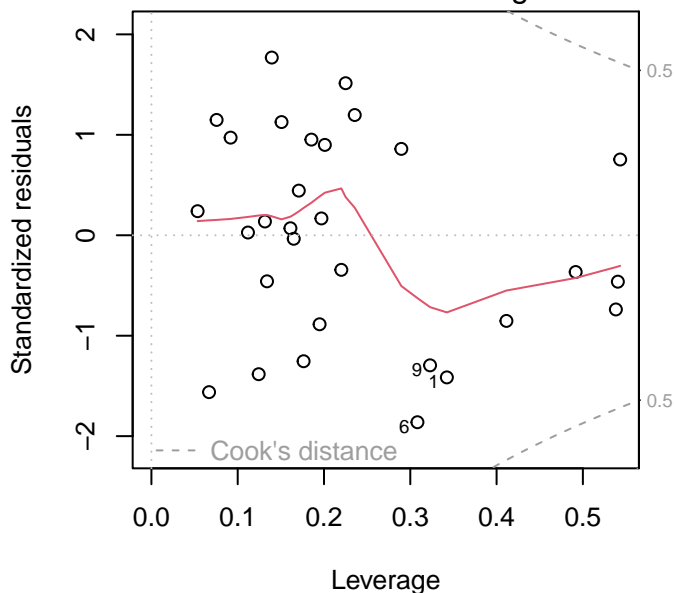
Q-Q Residuals



Scale-Location

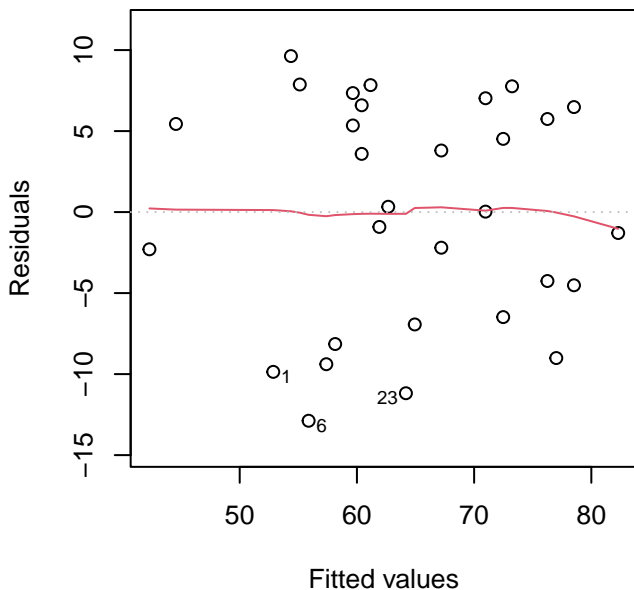


Residuals vs Leverage

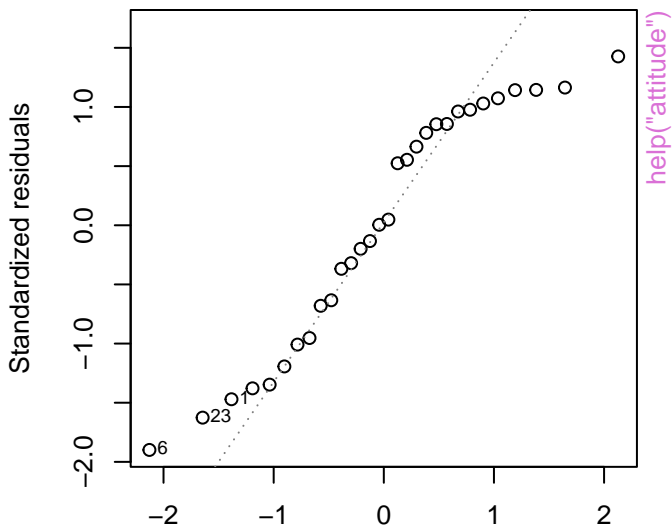


lm(rating ~ complaints)

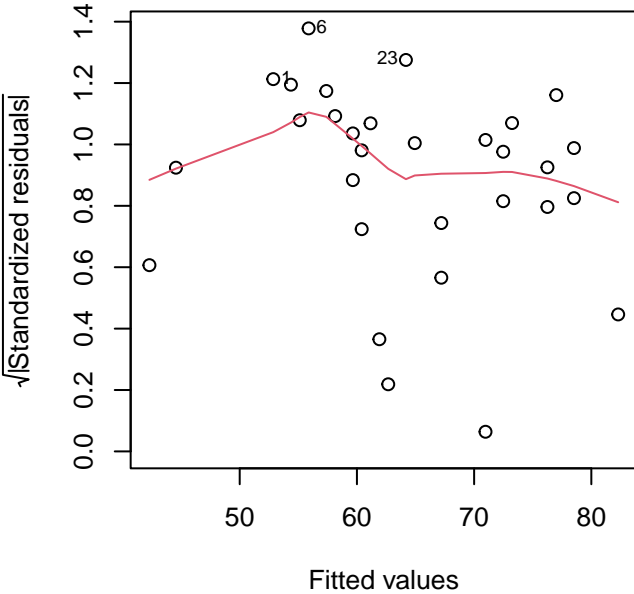
Residuals vs Fitted



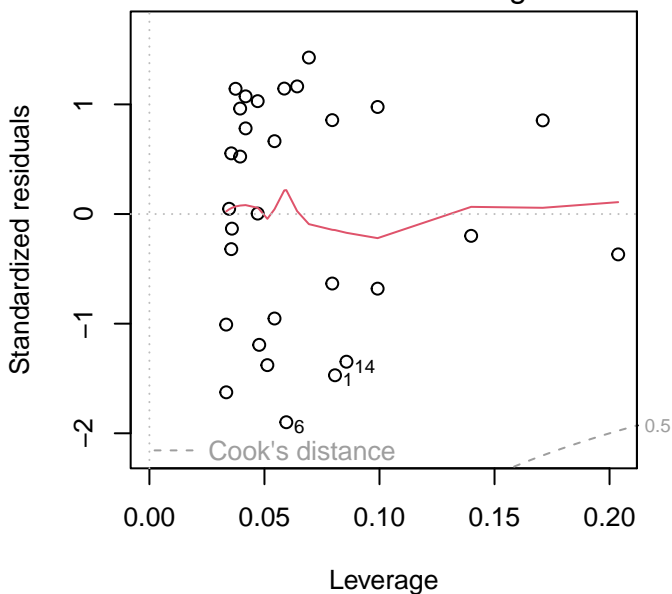
Q-Q Residuals



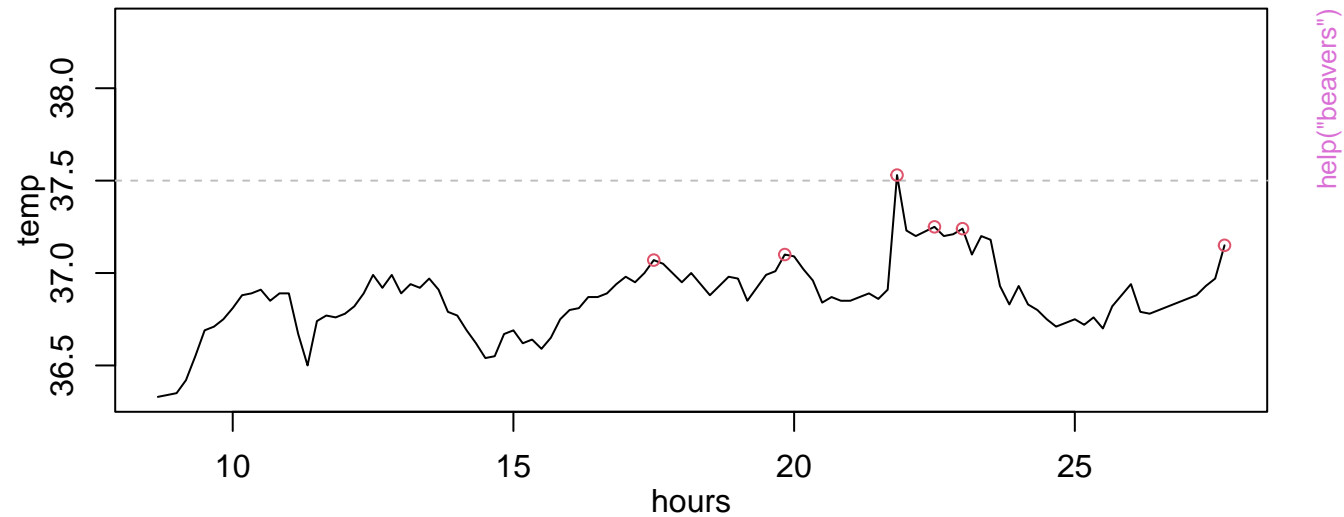
Scale-Location



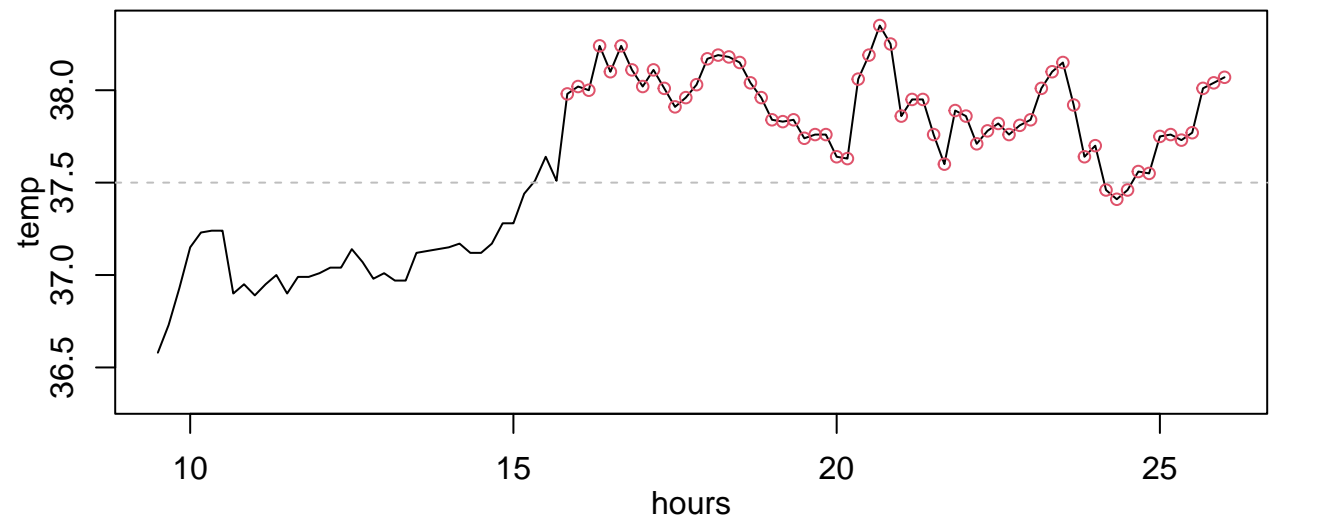
Residuals vs Leverage



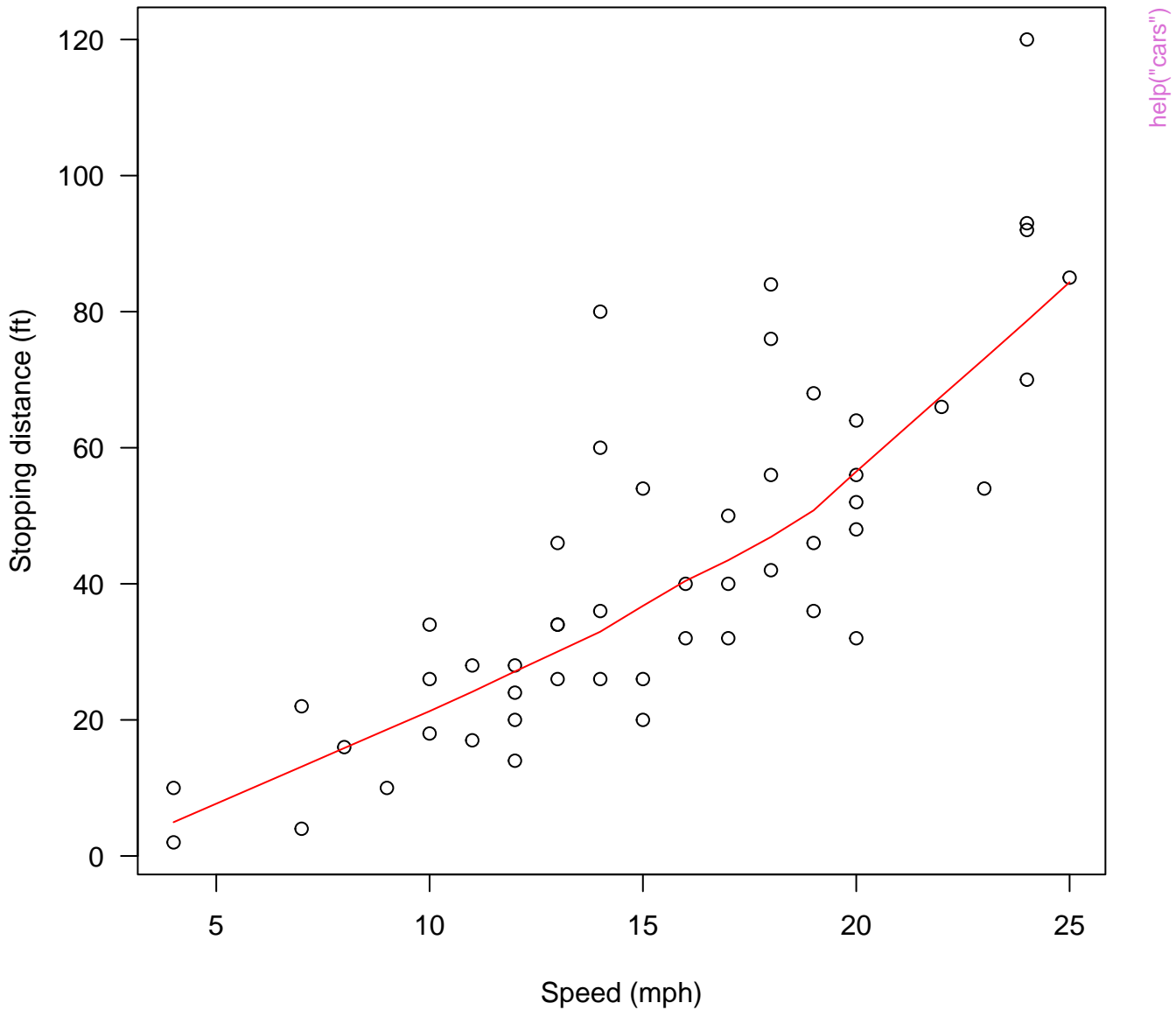
**beaver1 body temperature**



**beaver2 body temperature**

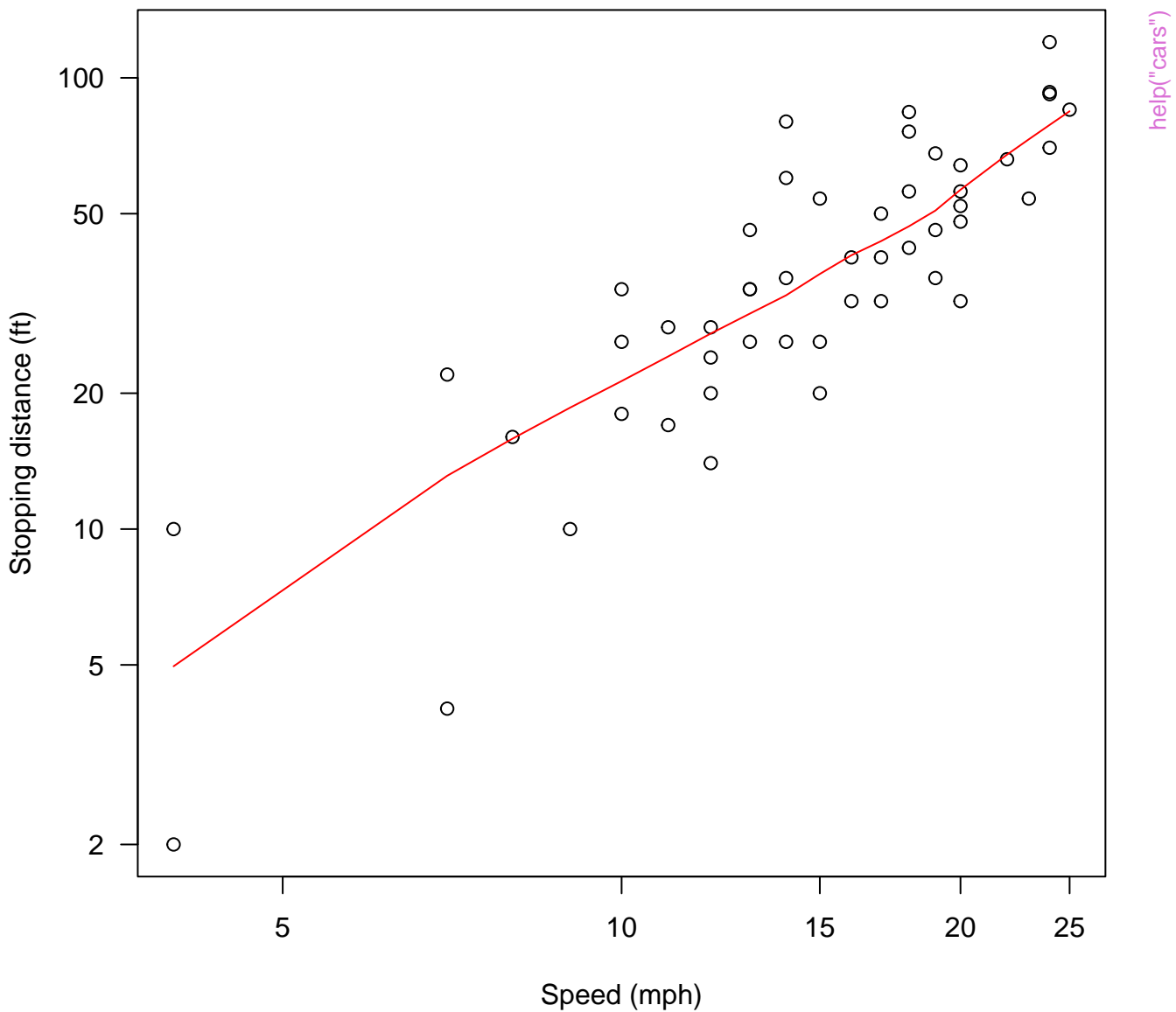


**cars data**

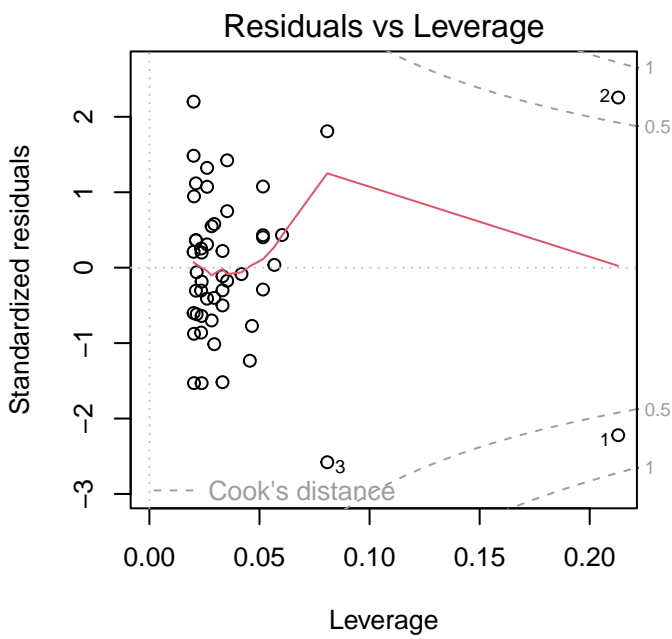
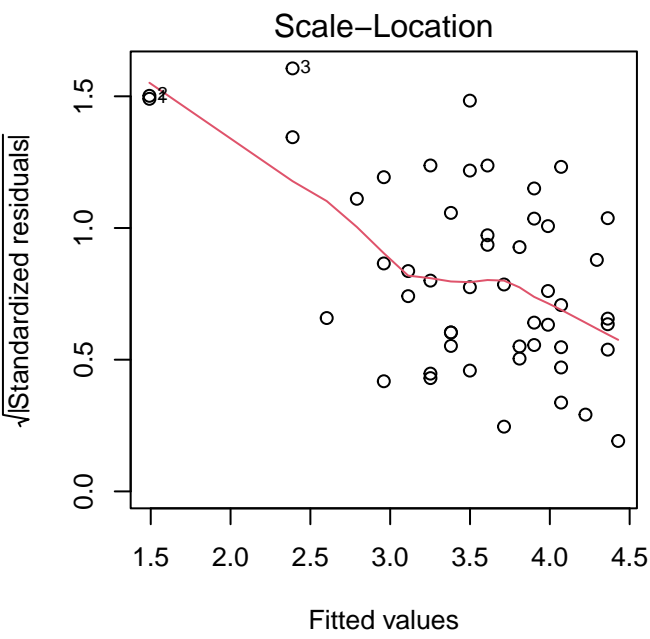
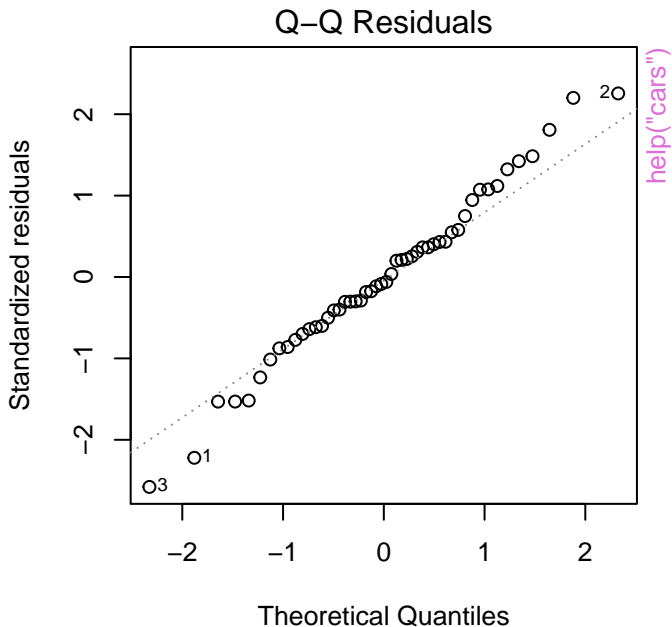
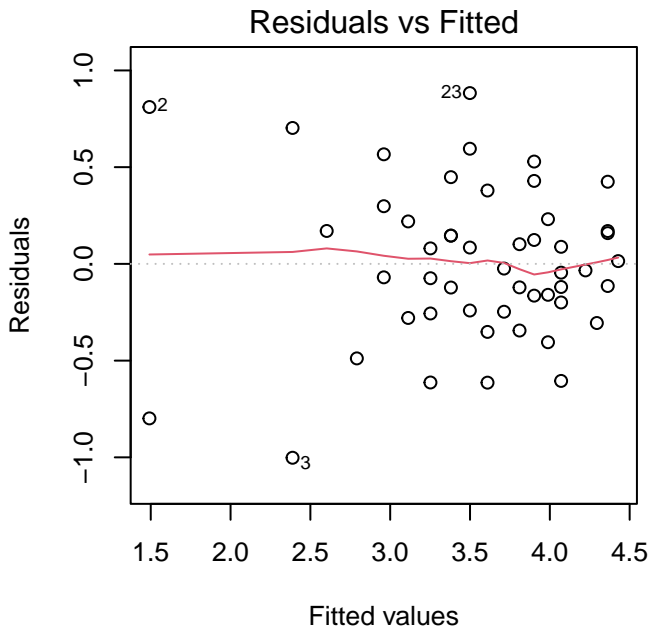


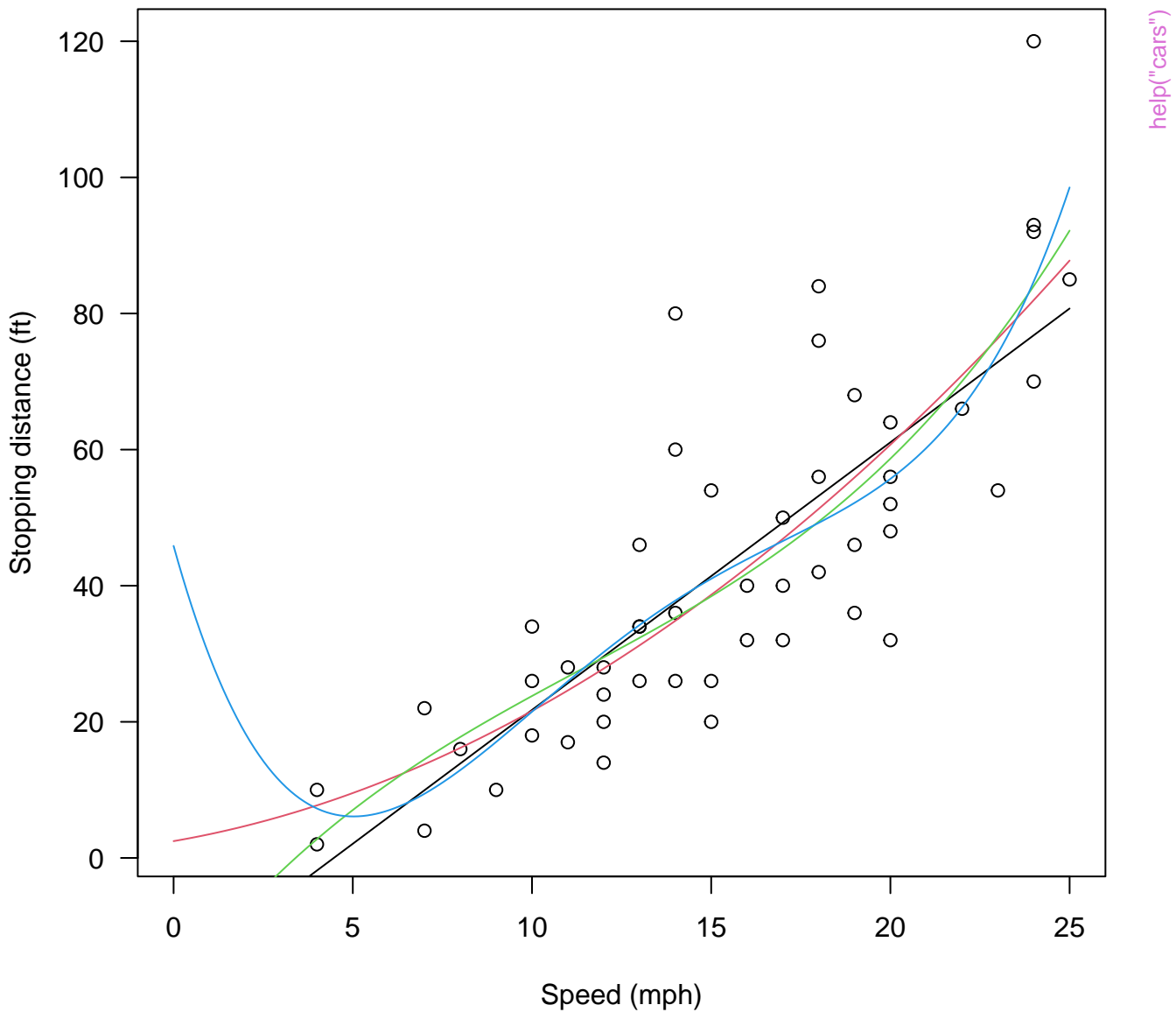


**cars data (logarithmic scales)**

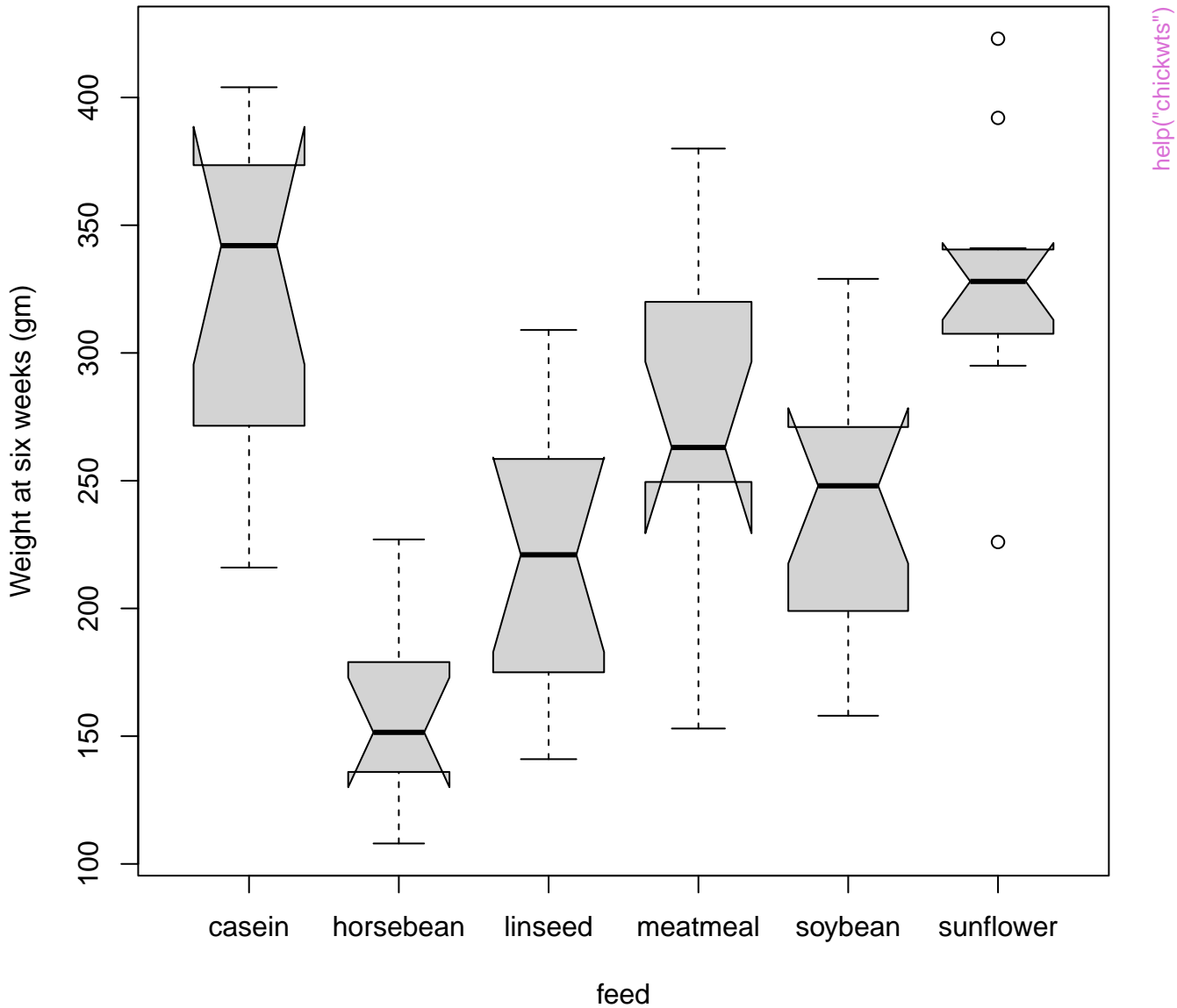


$$\ln(\log(\text{dist}) \sim \log(\text{speed}))$$



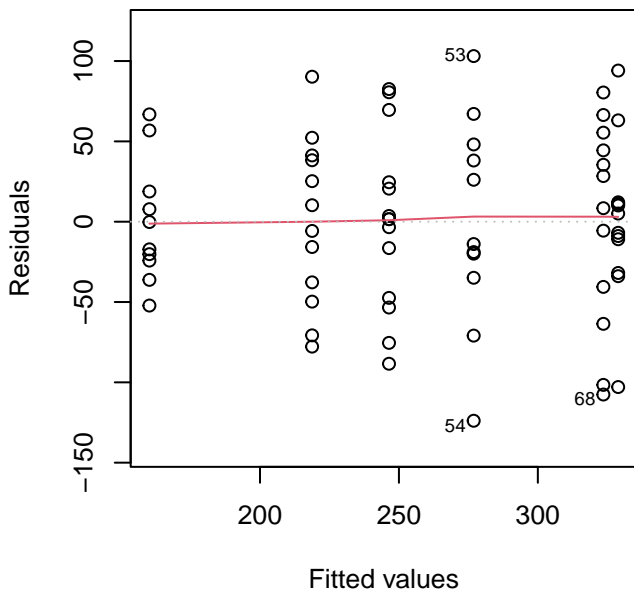


## chickwt data

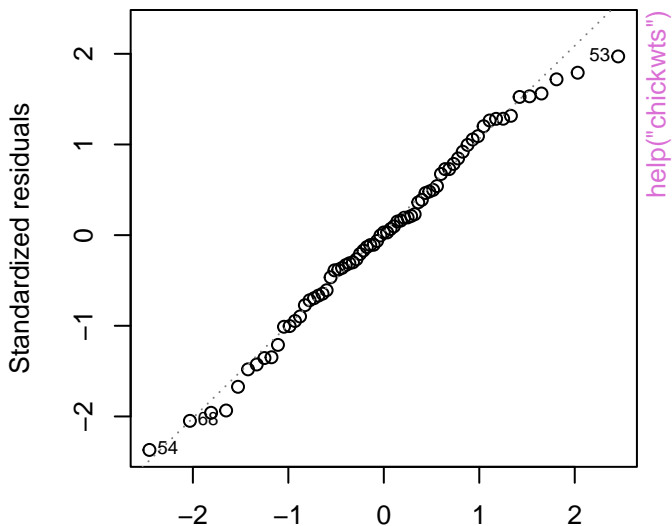


lm(weight ~ feed)

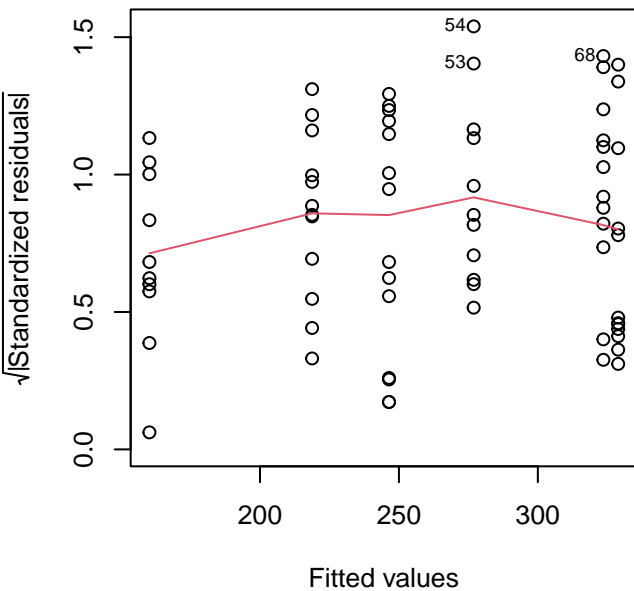
Residuals vs Fitted



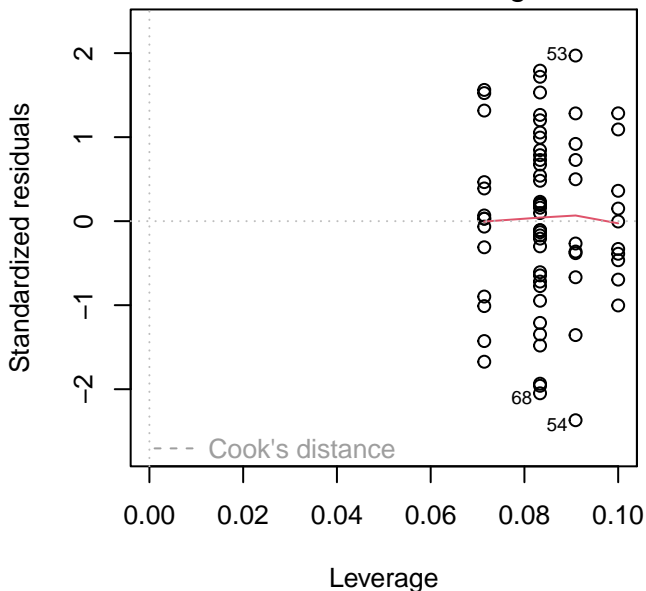
Q-Q Residuals



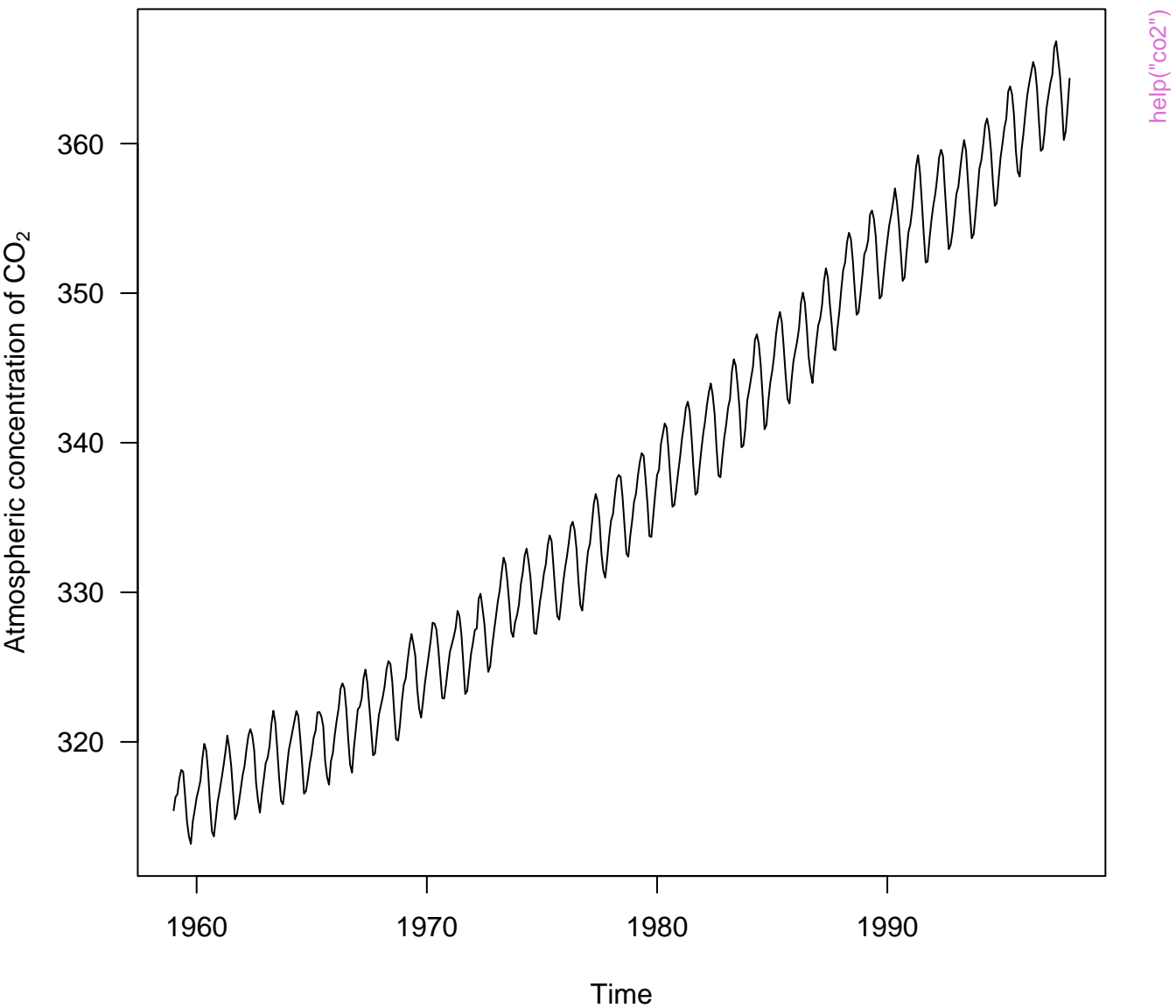
Scale-Location



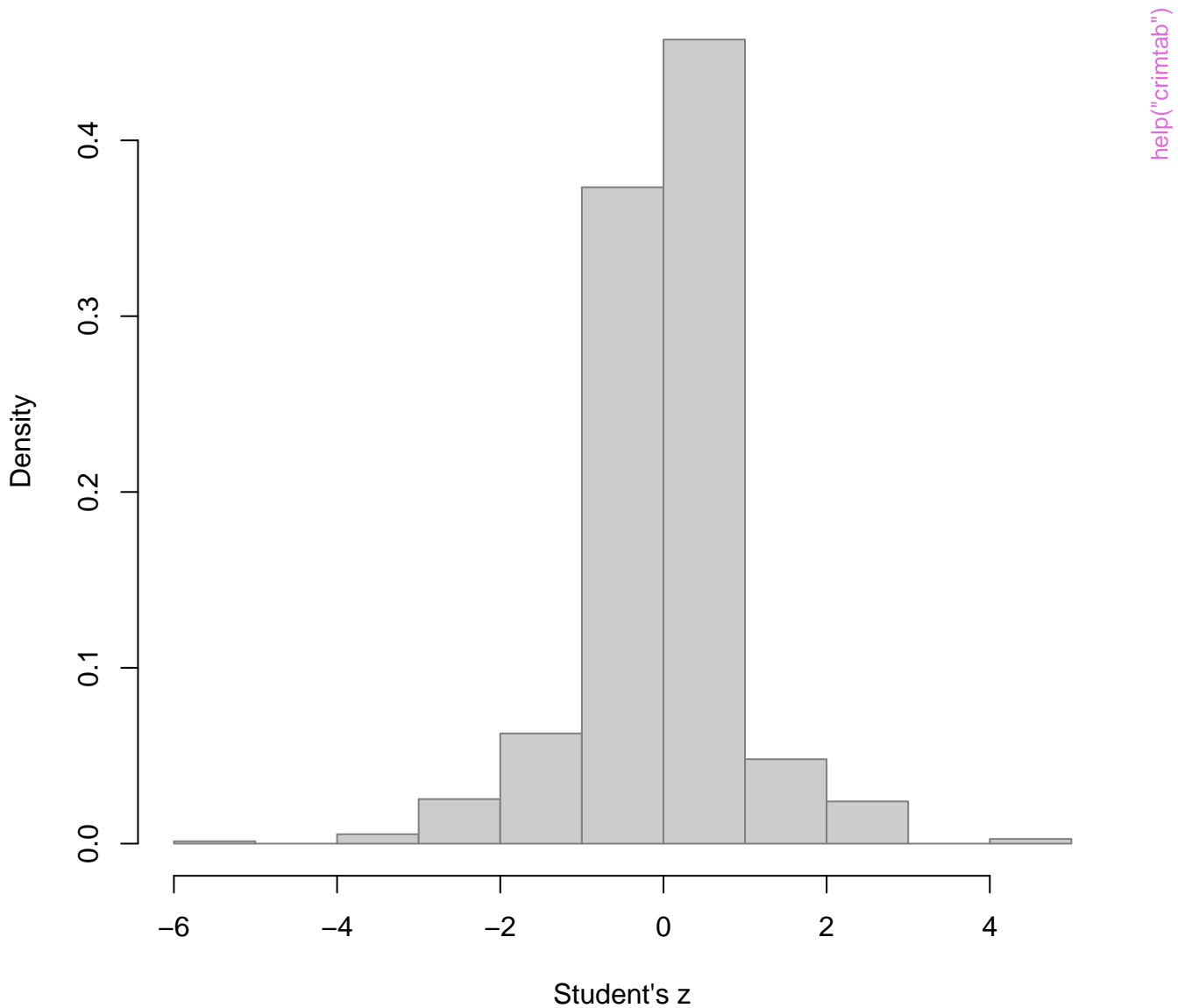
Residuals vs Leverage



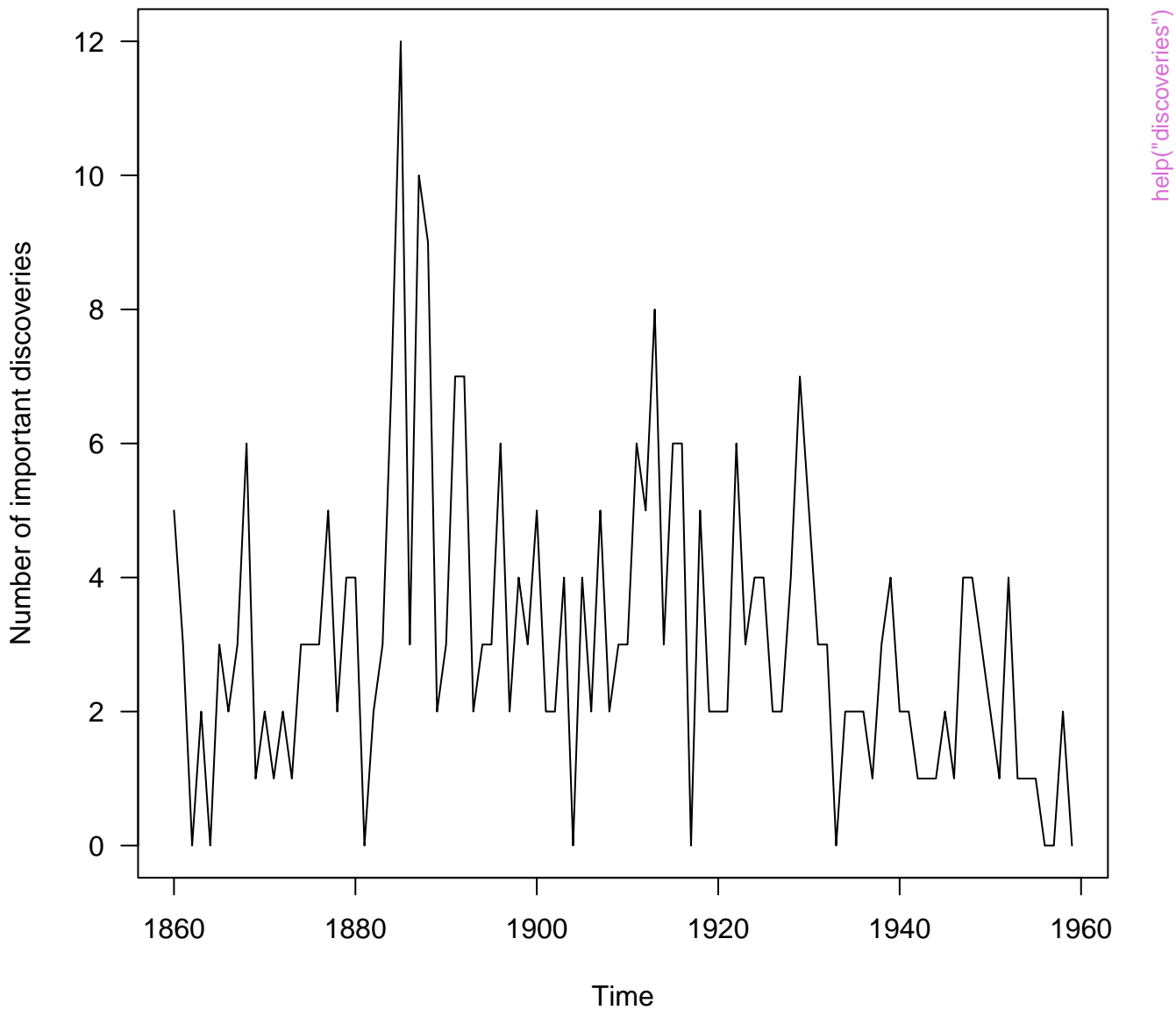
**co2 data set**



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

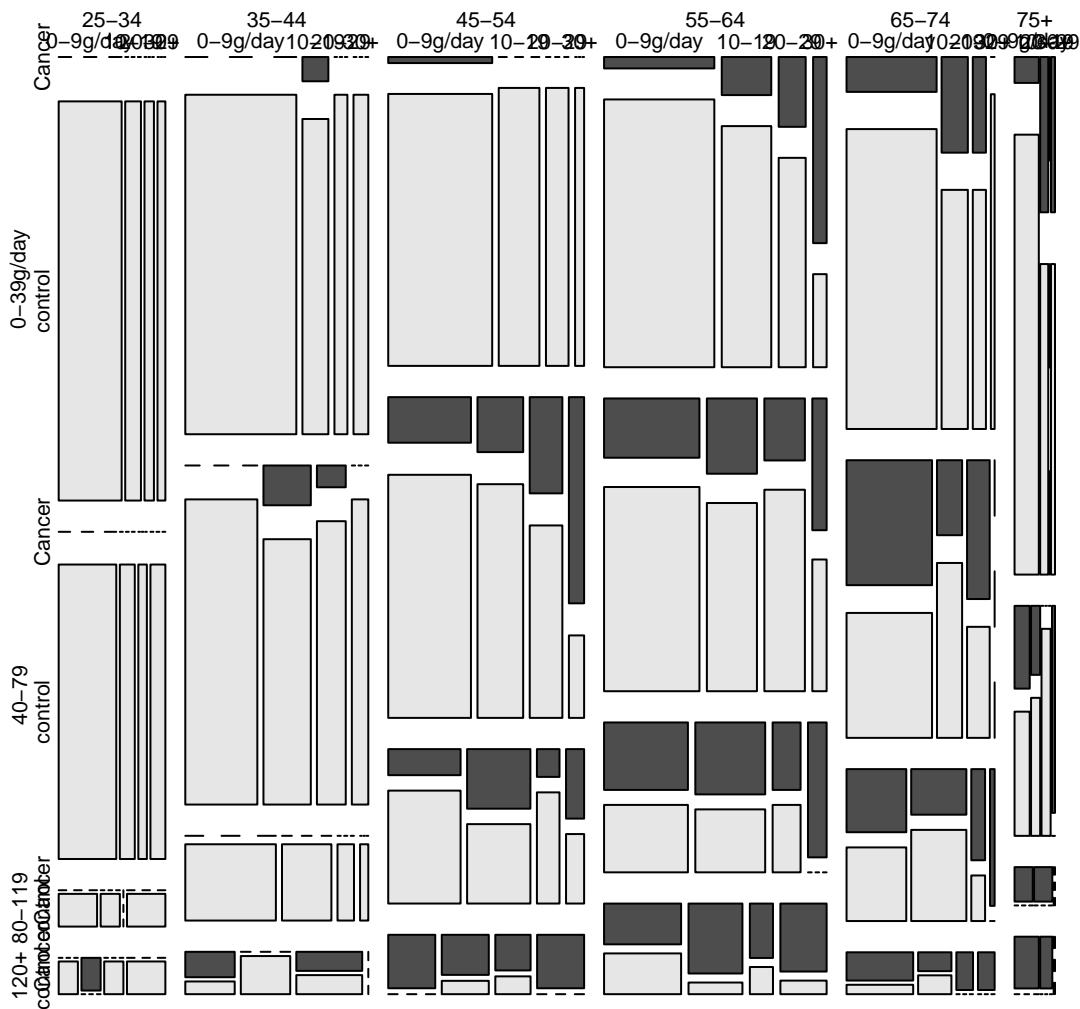


# discoveries data set



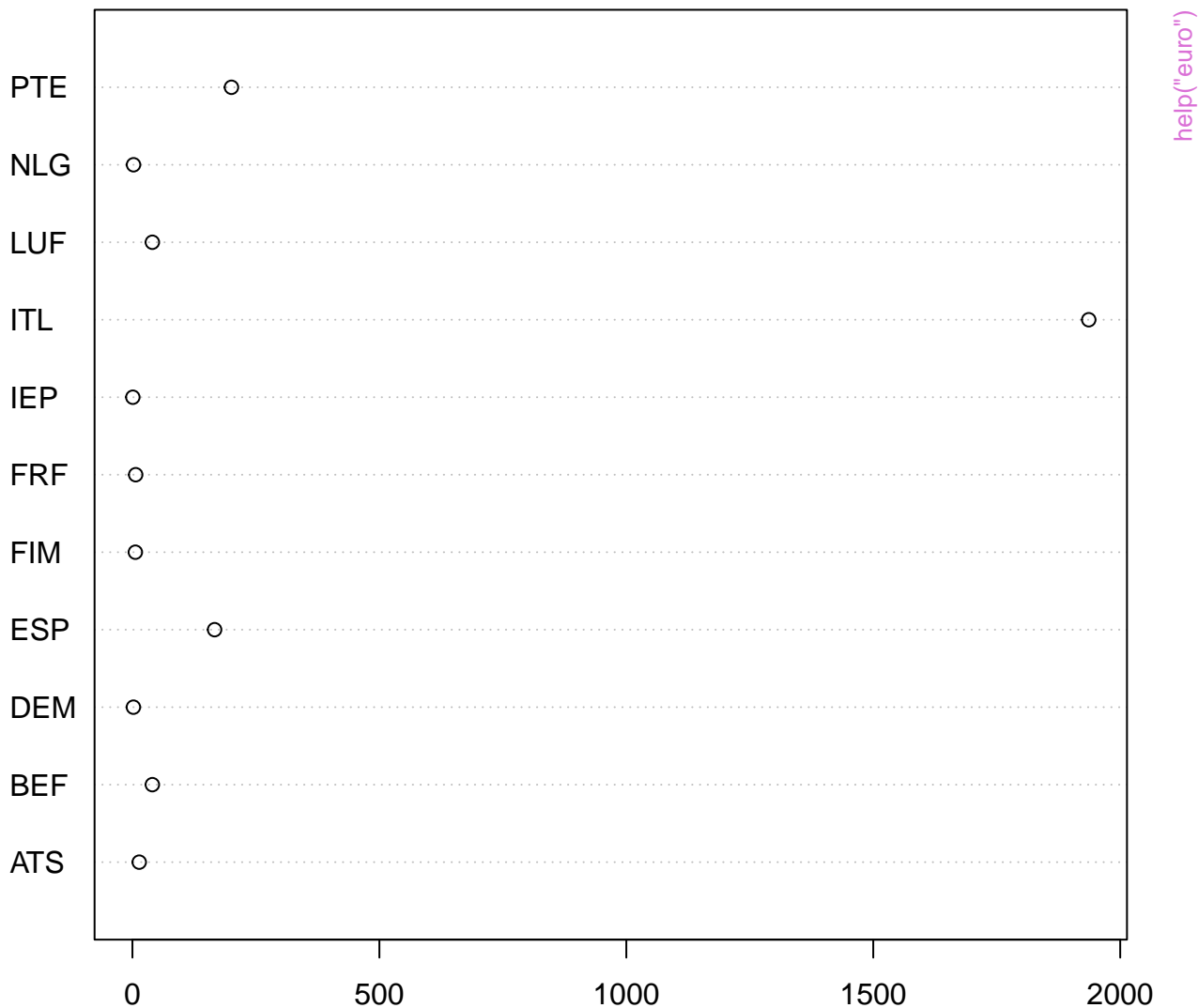


## esoph data set

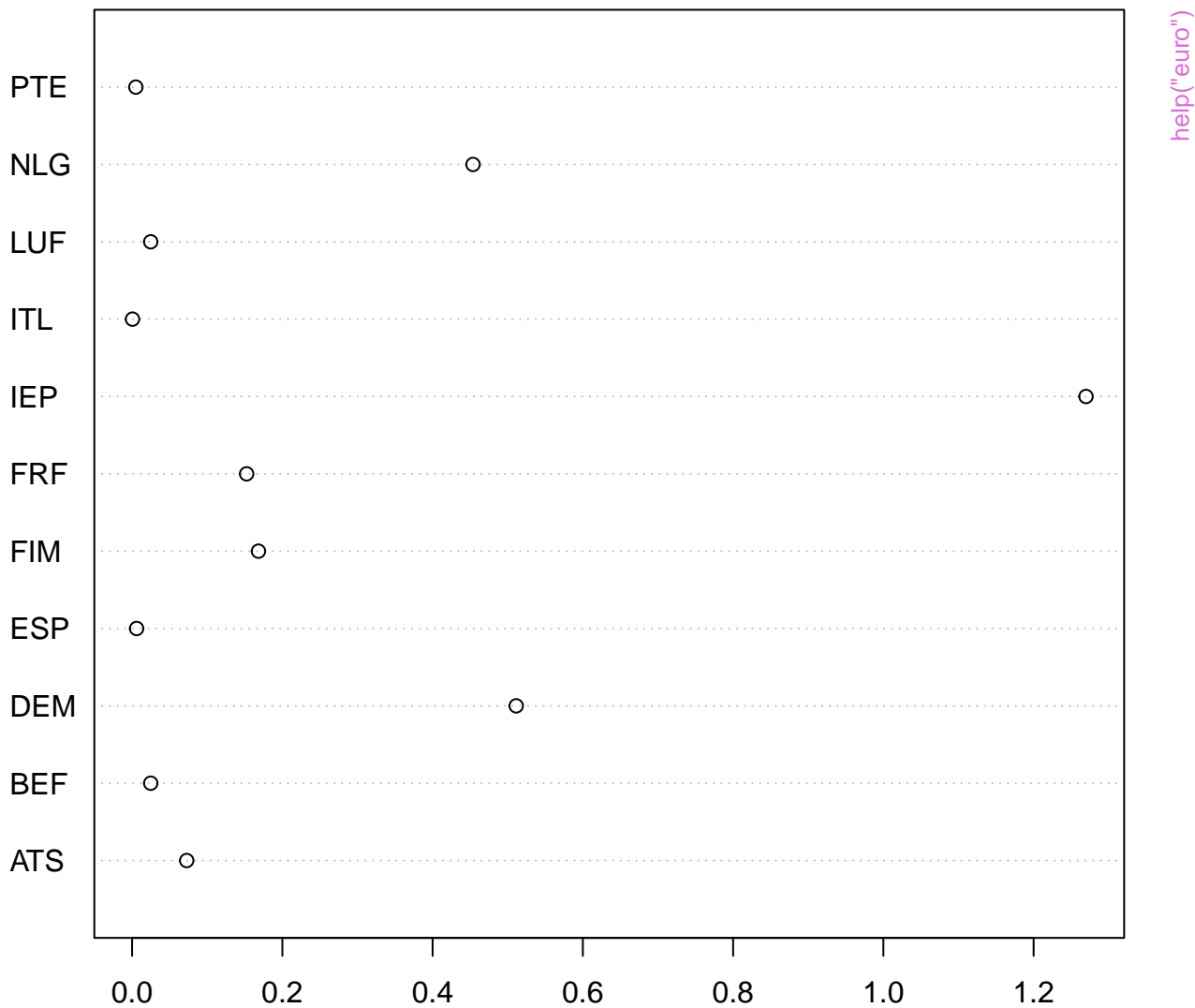


help("esoph")

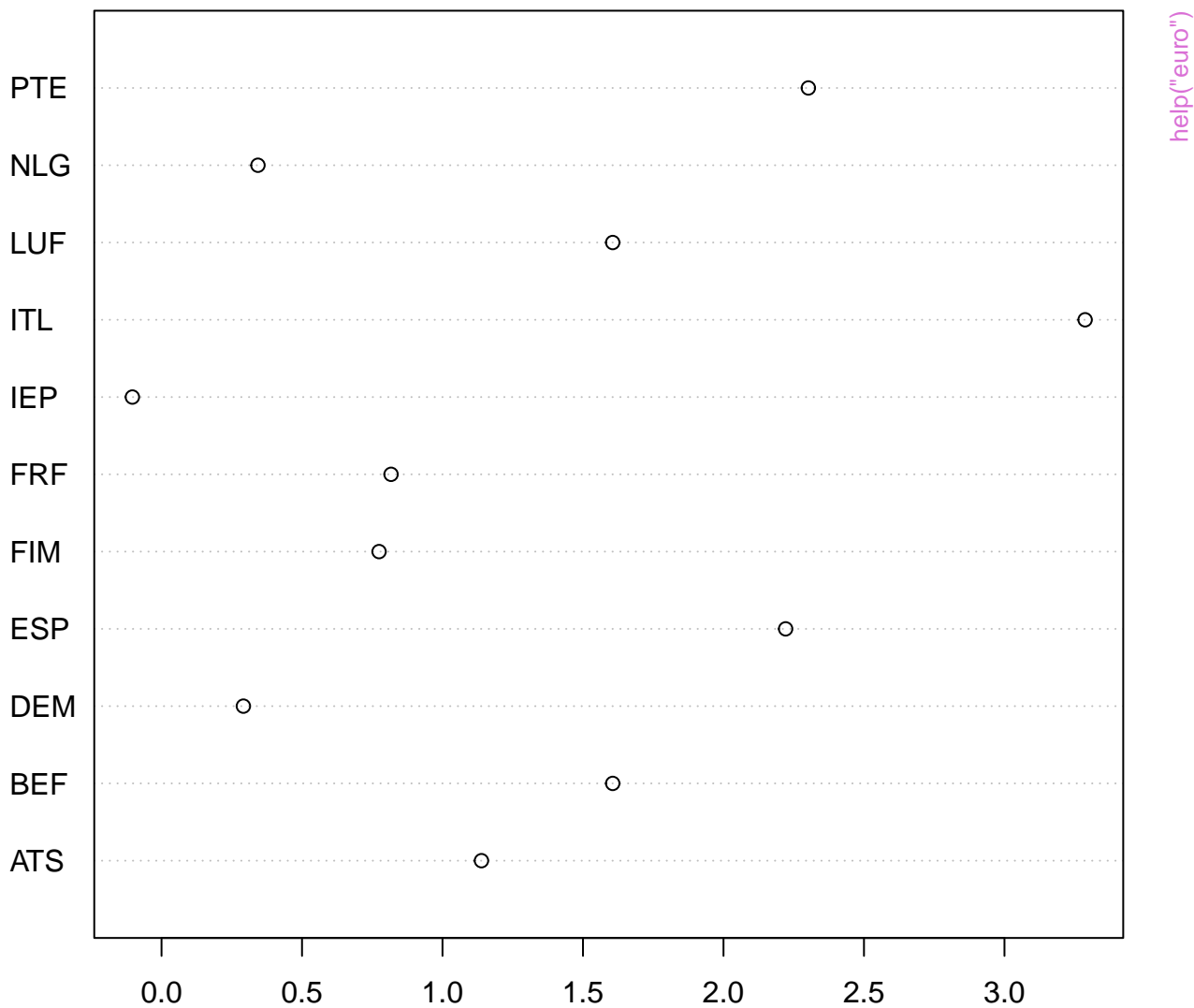
## euro data: 1 Euro in currency unit



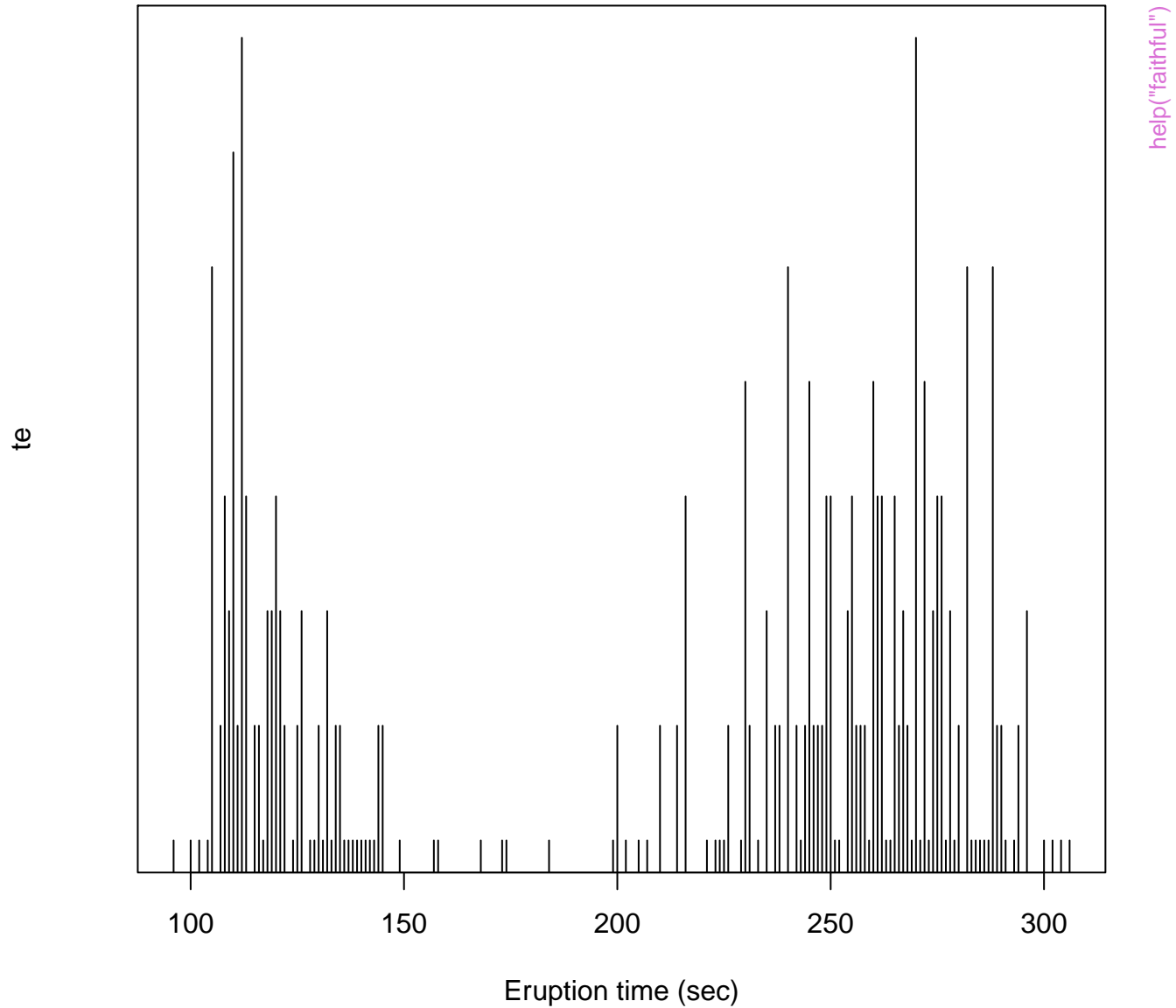
## euro data: 1 currency unit in Euros



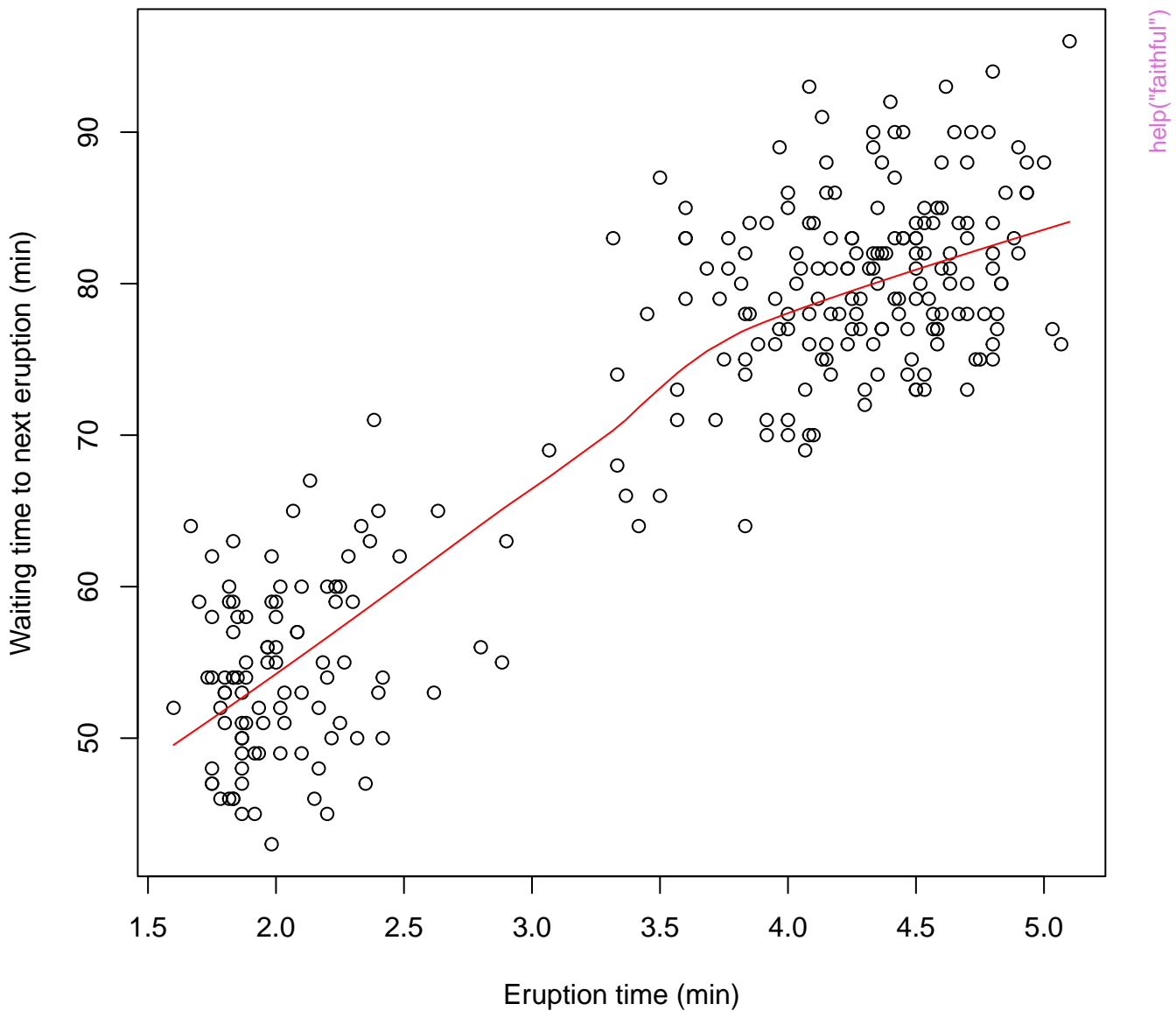
euro data: log<sub>10</sub>(1 Euro in currency unit)



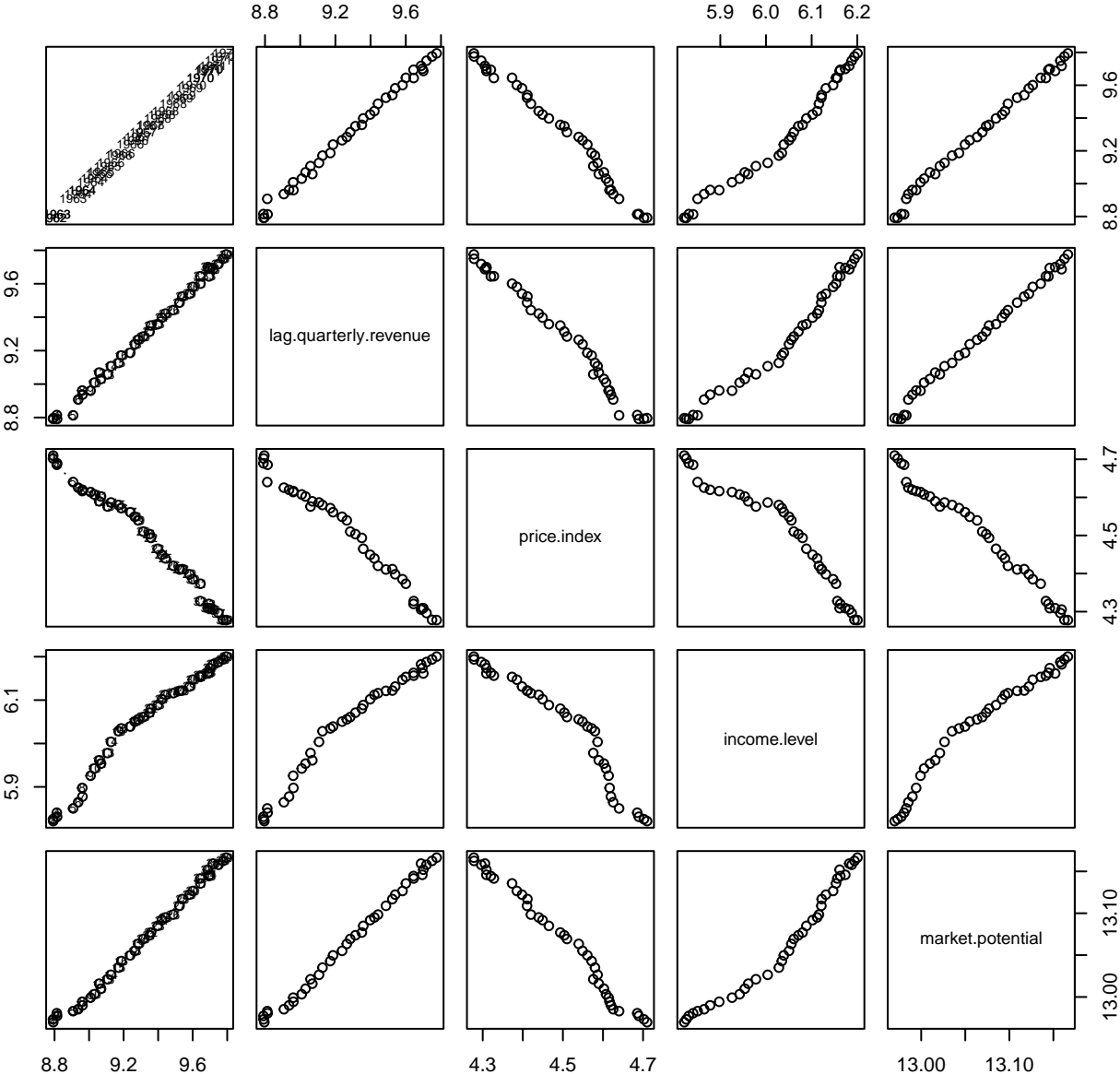
# faithful data: Eruptions of Old Faithful



## faithful data: Eruptions of Old Faithful

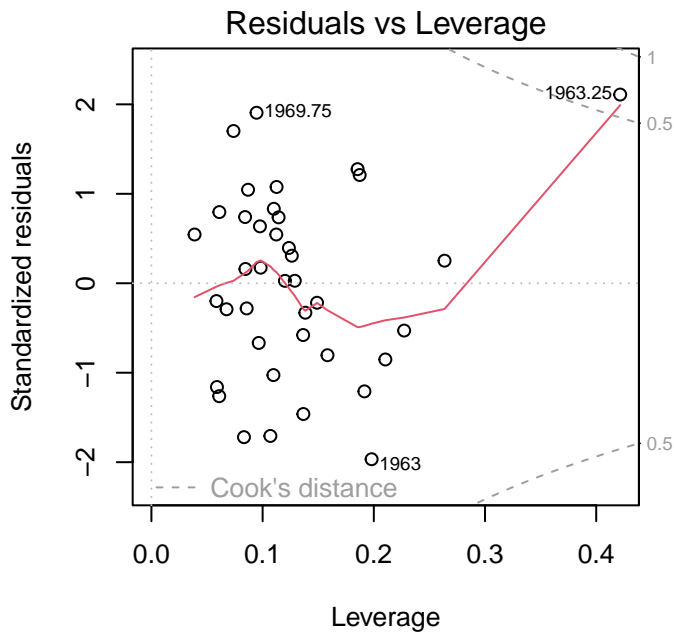
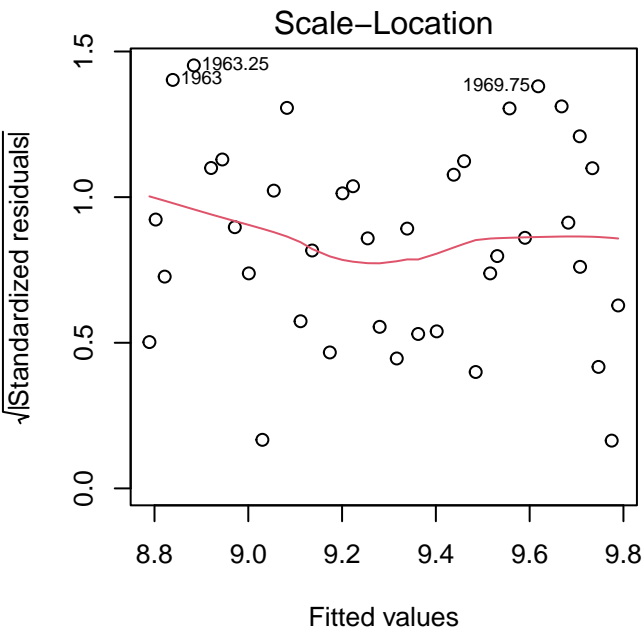
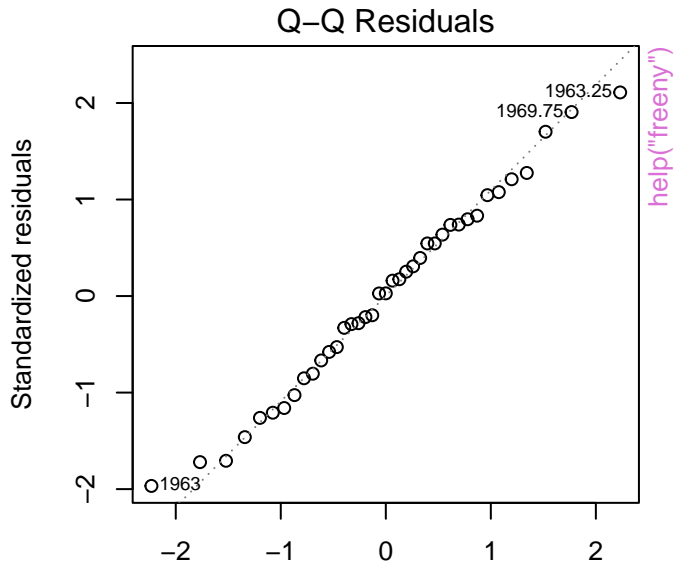
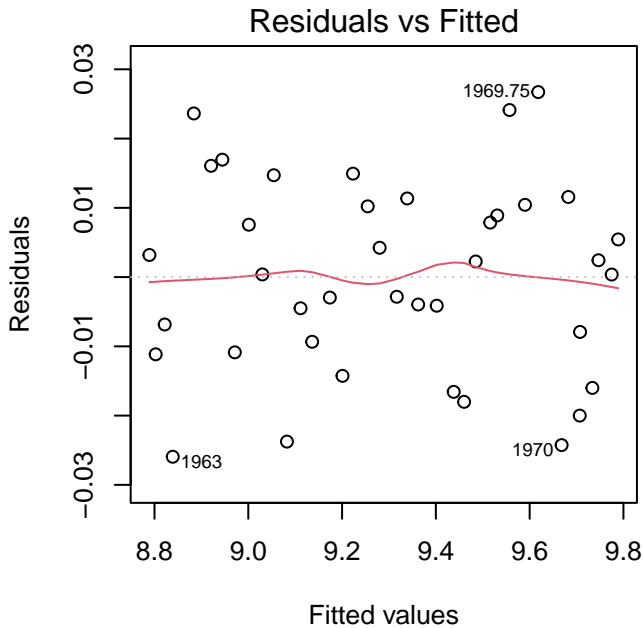


freeny data



help("freeny")

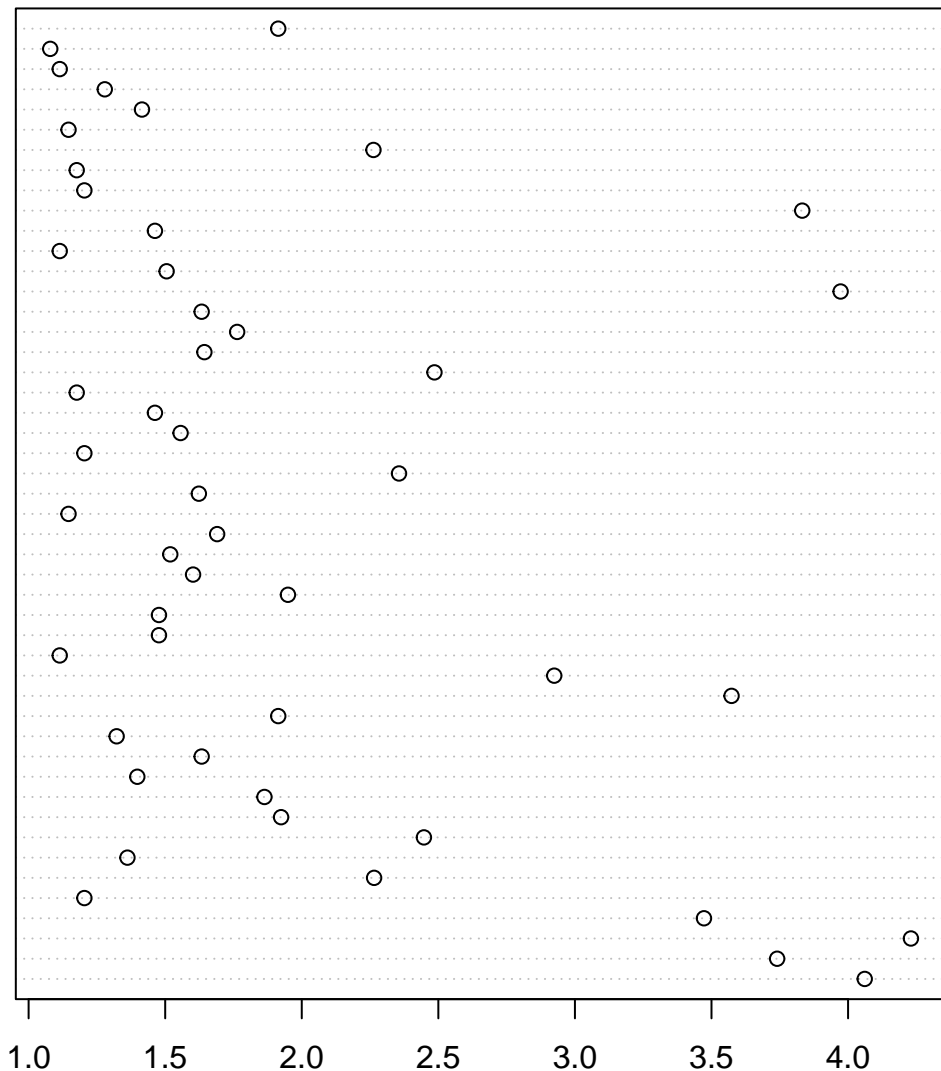
$\text{Im}(y \sim .)$





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

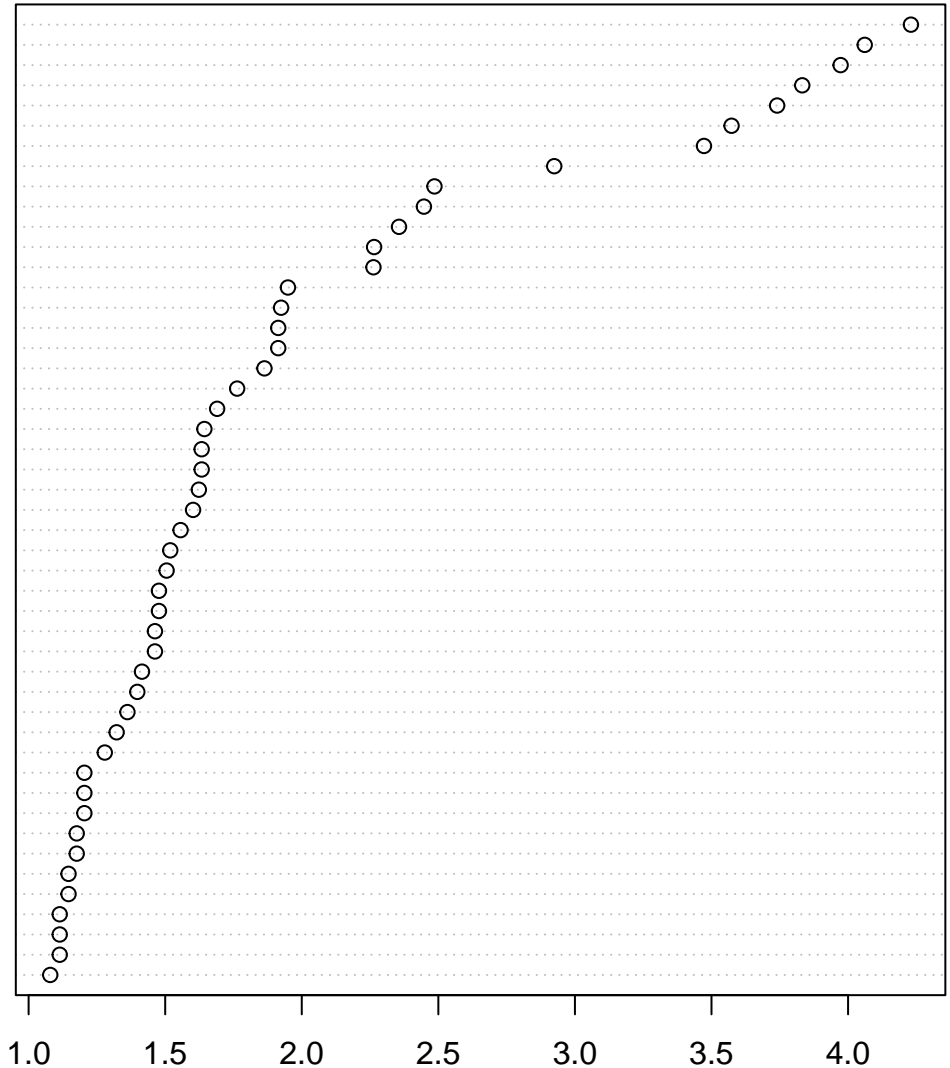
Victoria  
 Vancouver  
 Timor  
 Tierra del Fuego  
 Tasmania  
 Taiwan  
 Sumatra  
 Spitsbergen  
 Southampton  
 South America  
 Sakhalin  
 Prince of Wales  
 Novaya Zemlya  
 North America  
 Newfoundland  
 New Zealand (S)  
 New Zealand (N)  
 New Guinea  
 New Britain  
 Moluccas  
 Mindanao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



help("islands")

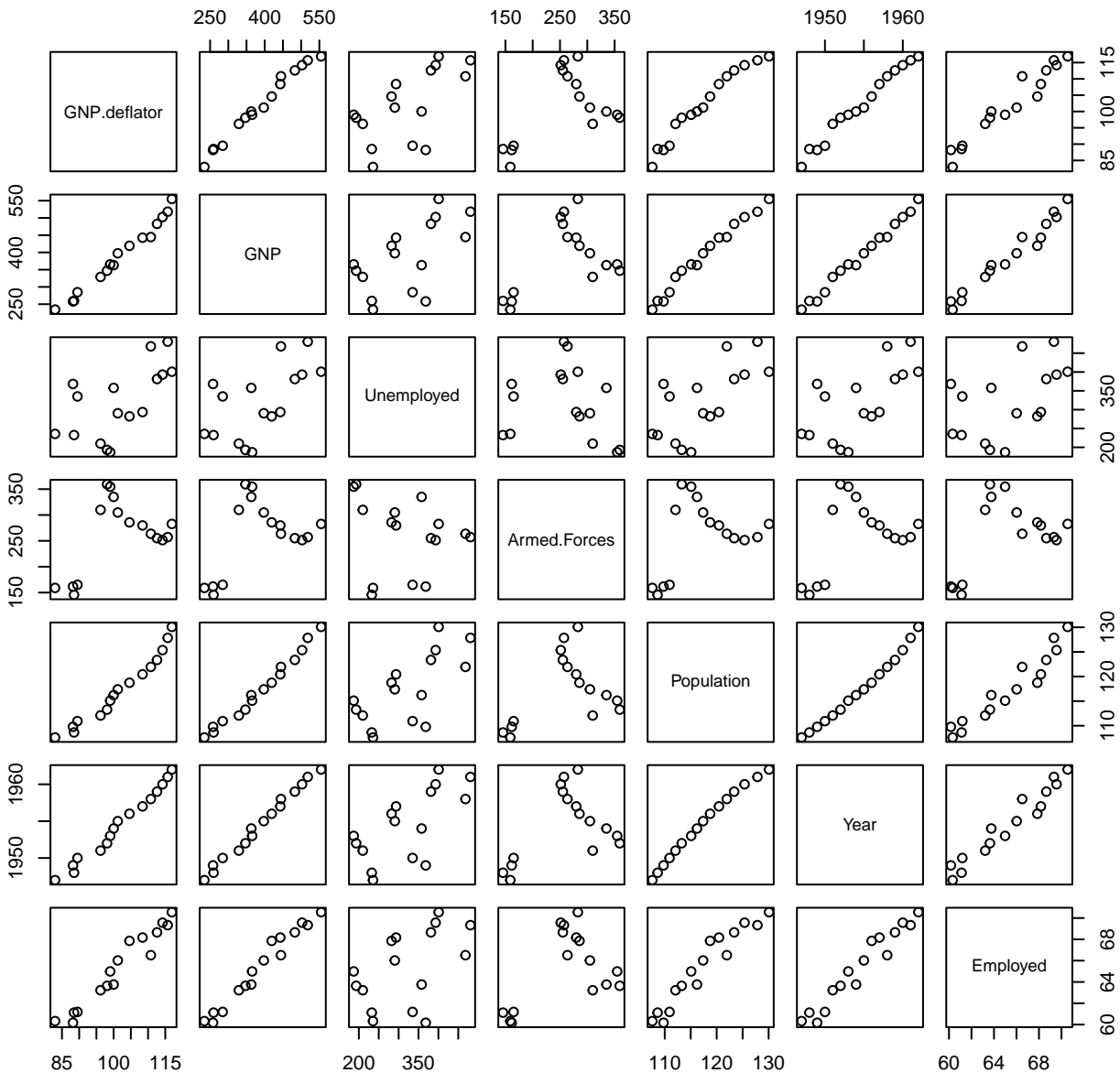
islands data: log10(area) (log10(sq. miles))

Asia  
Africa  
North America  
South America  
Antarctica  
Europe  
Australia  
Greenland  
New Guinea  
Borneo  
Madagascar  
Baffin  
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")

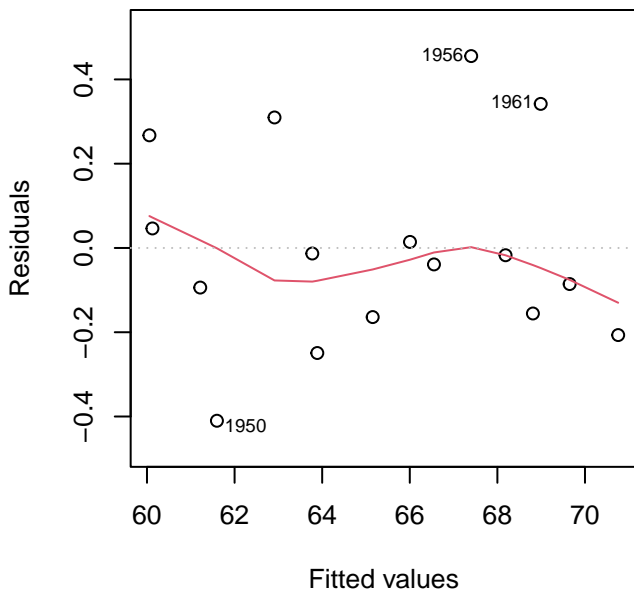
# longley data



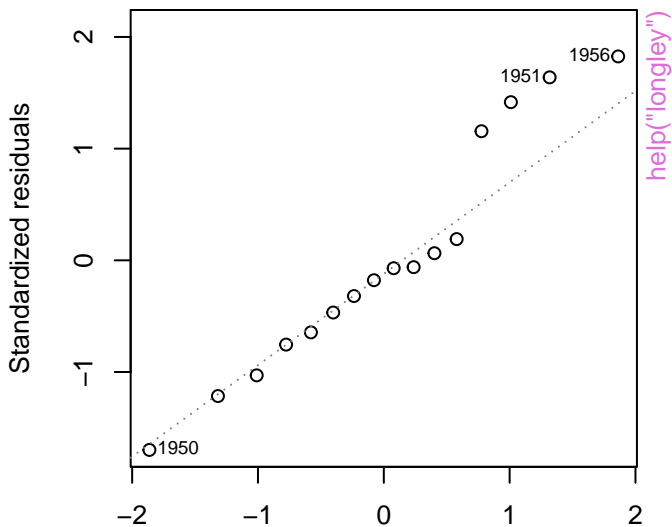
help("longley")

lm(Employed ~ .)

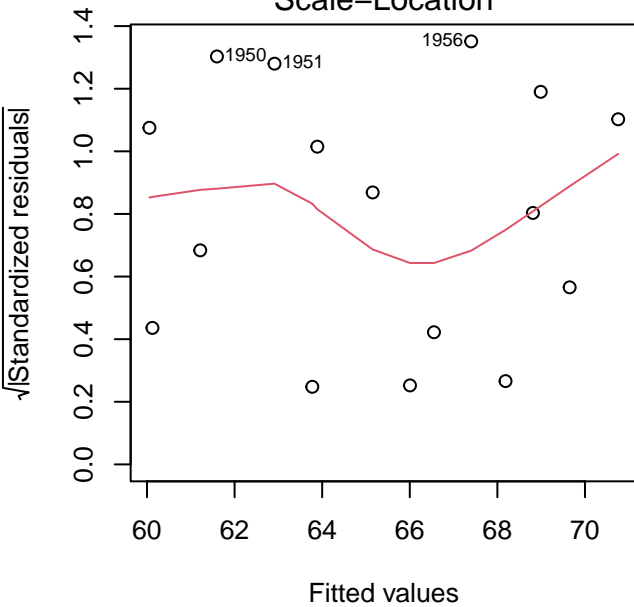
Residuals vs Fitted



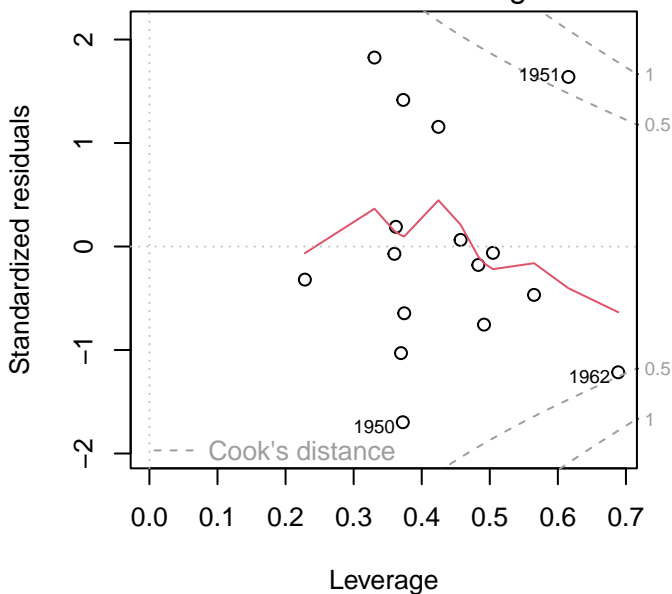
Q-Q Residuals



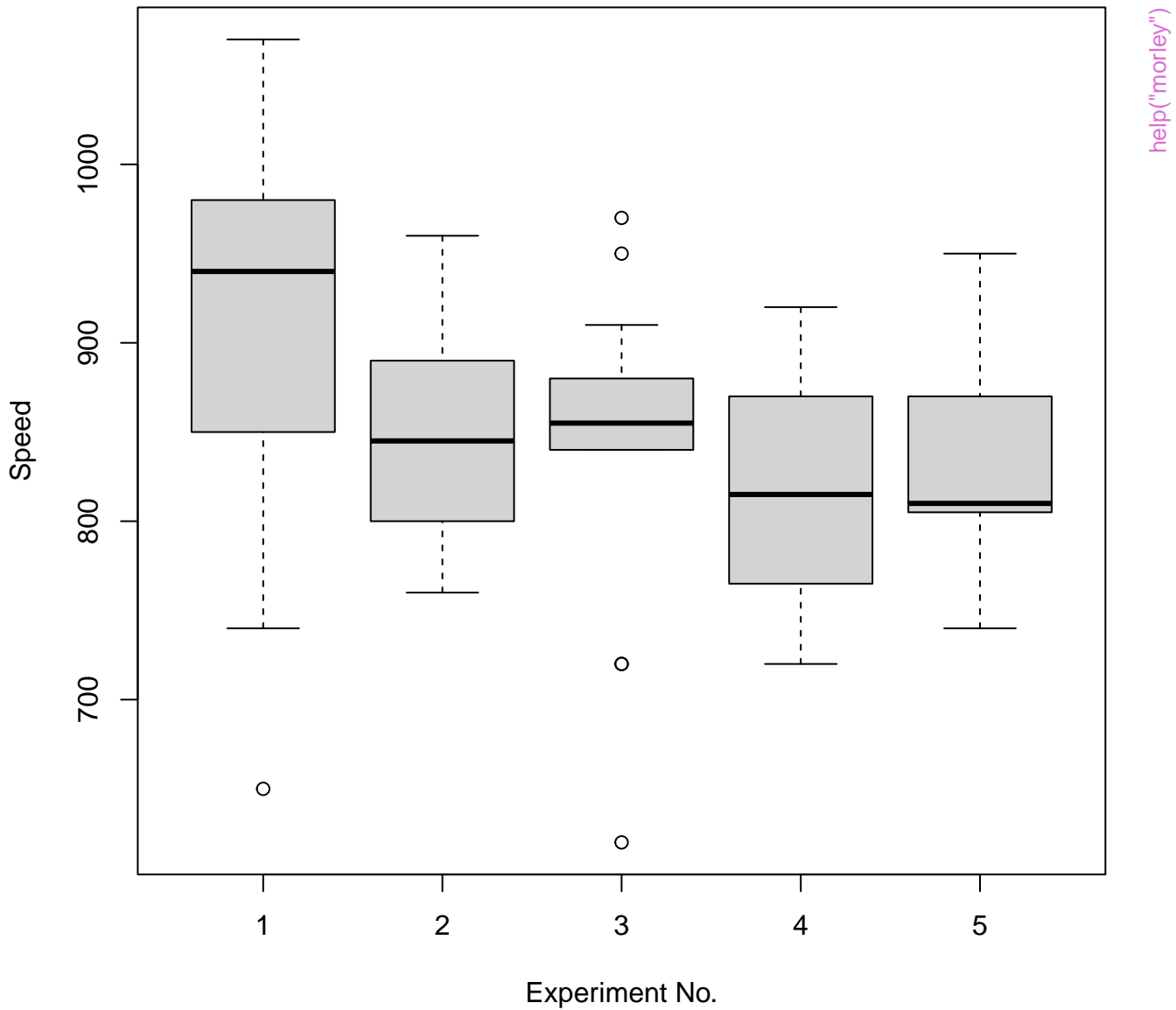
Scale-Location



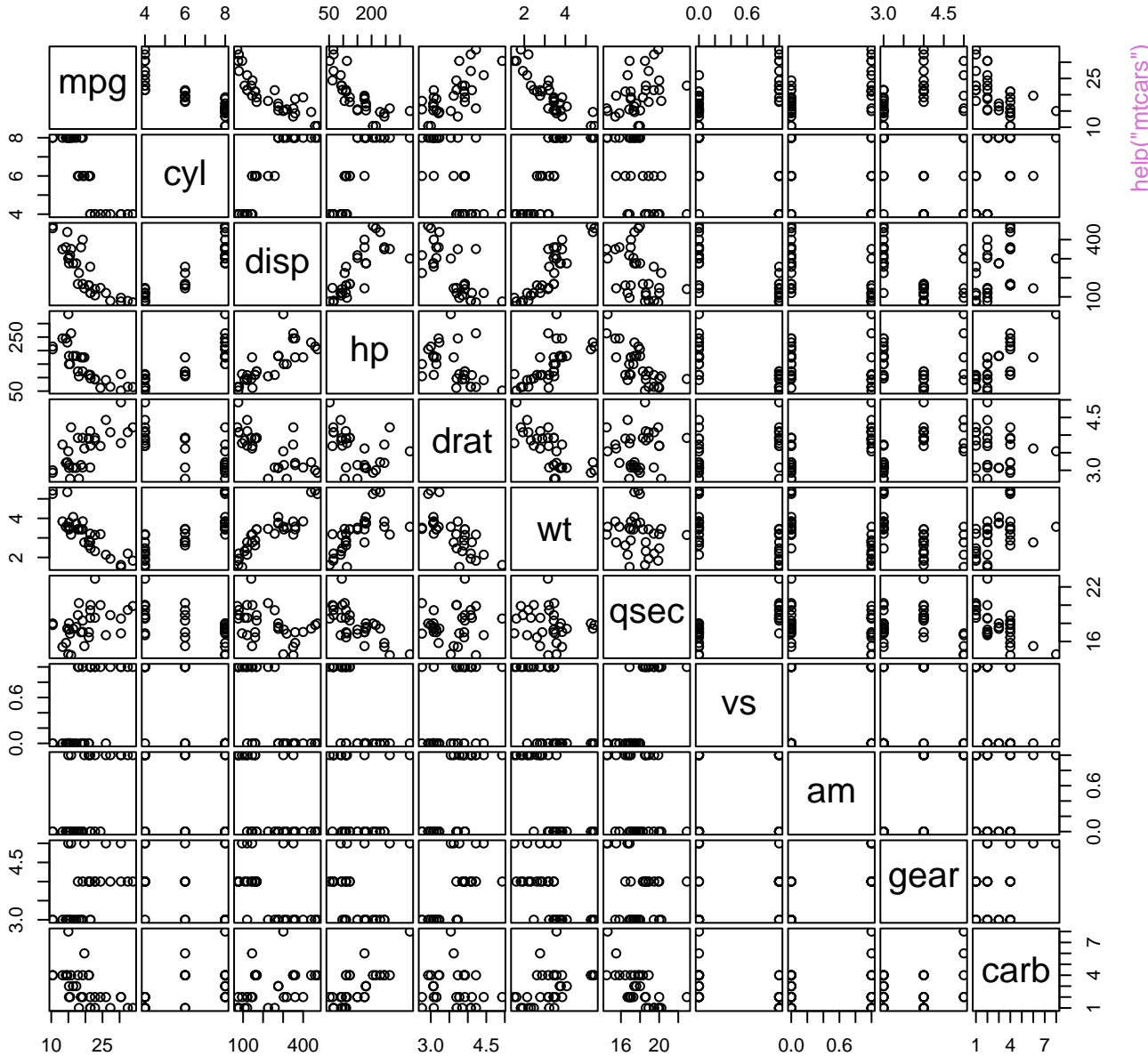
Residuals vs Leverage



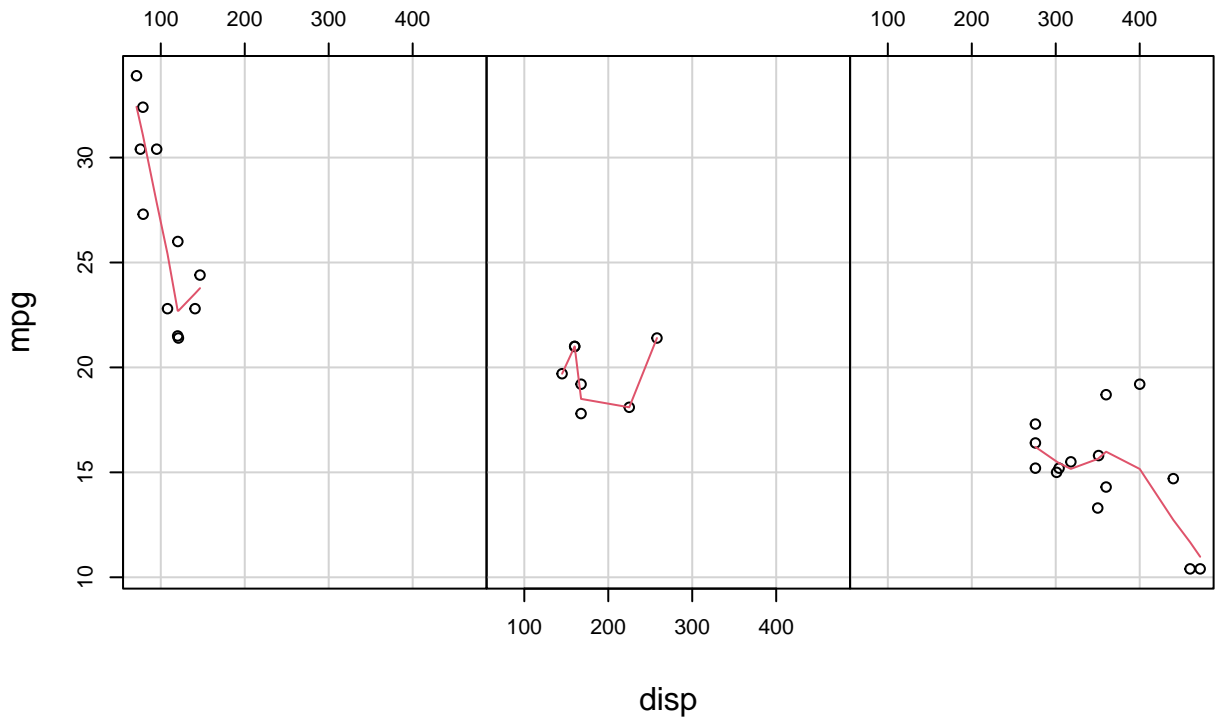
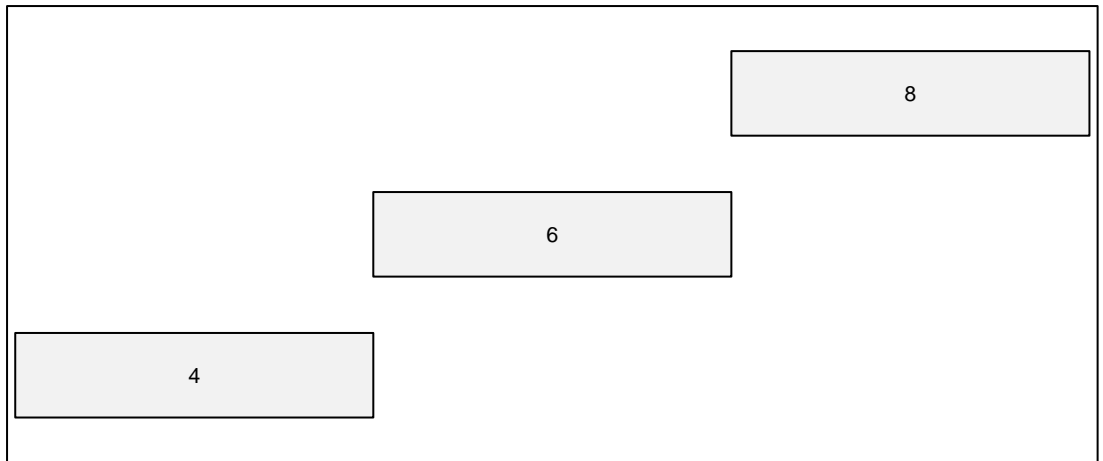
# Speed of Light Data



## mtcars data

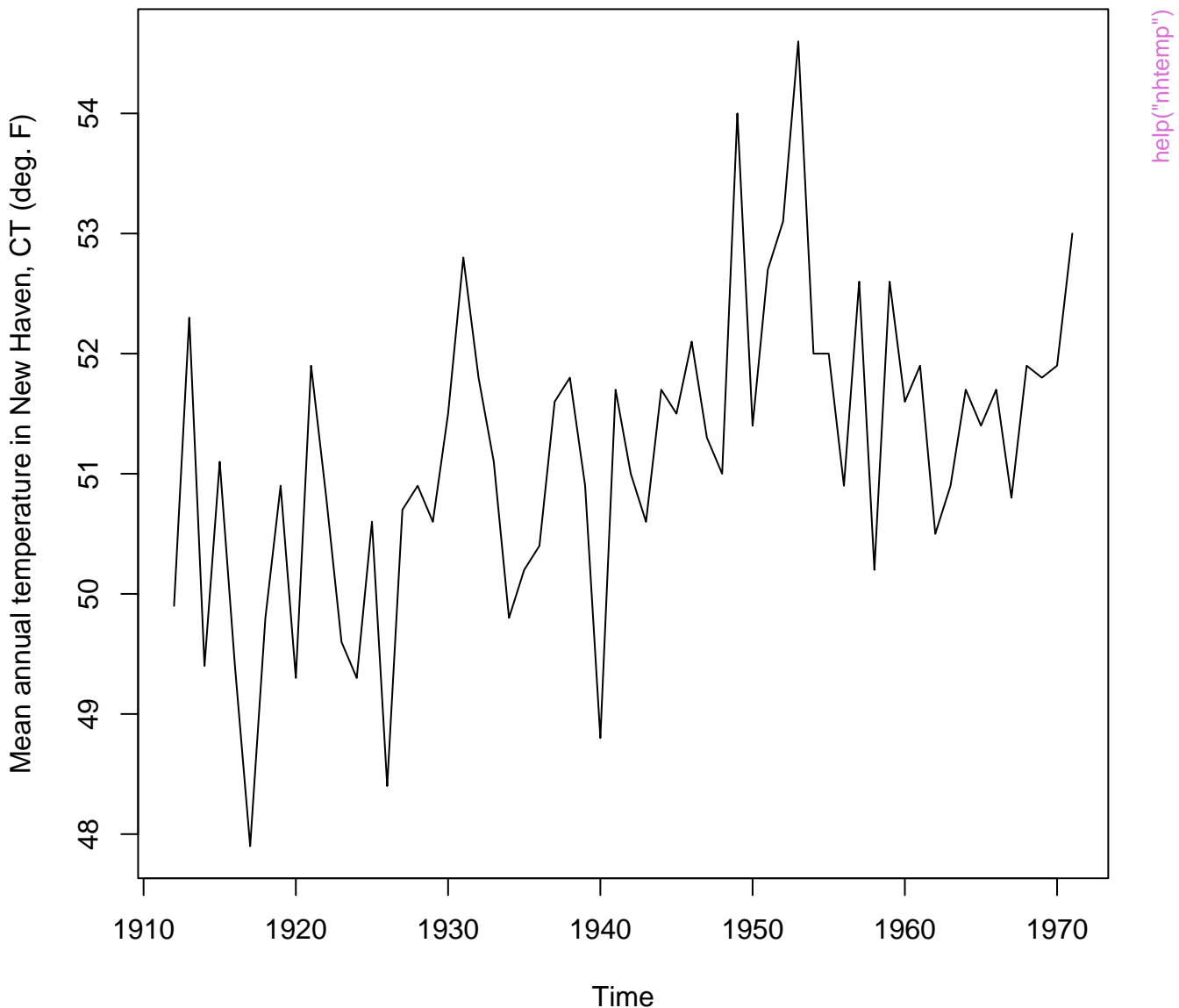


Given : as.factor(cyl)



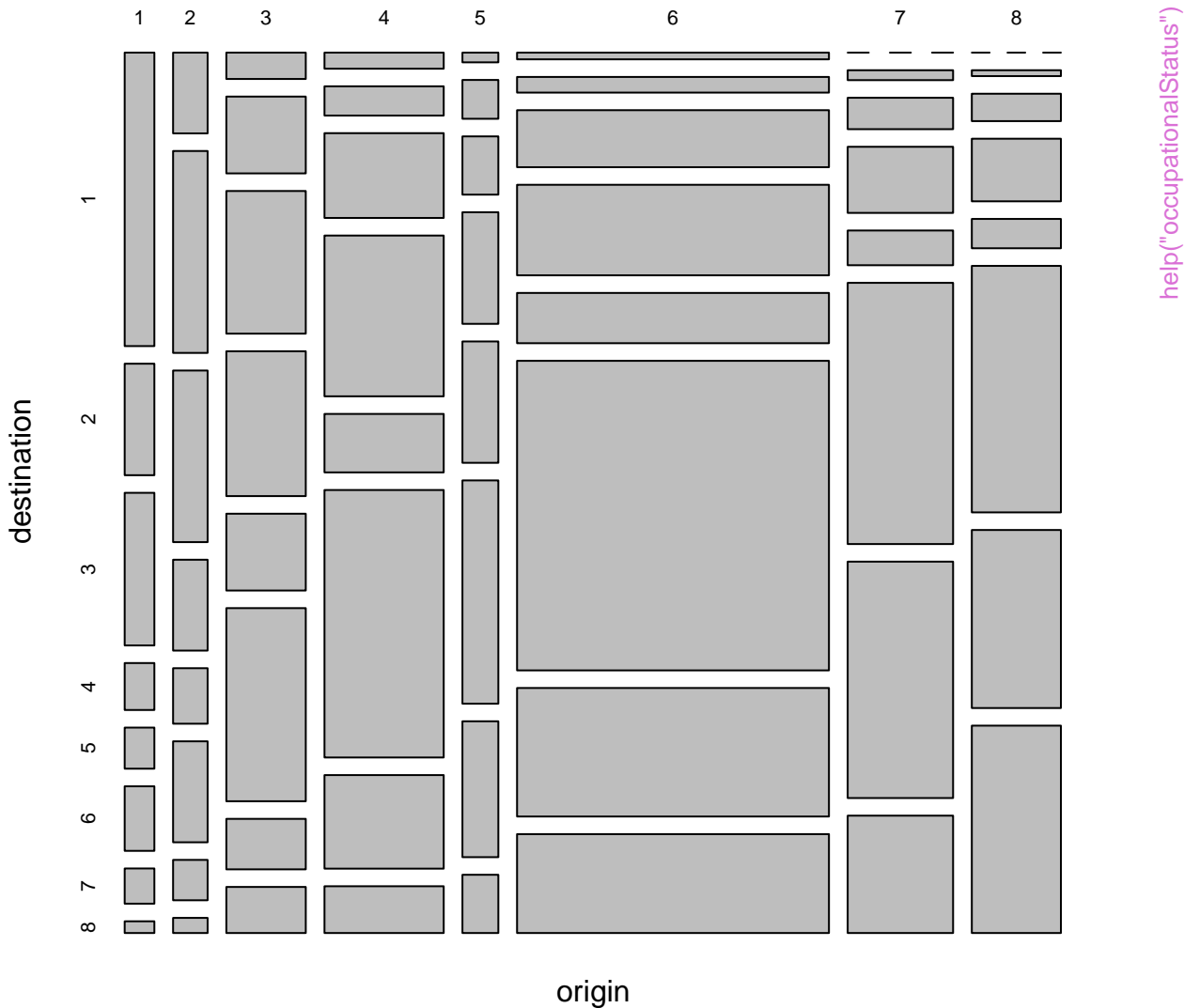
help("mtcars")

nhtemp data

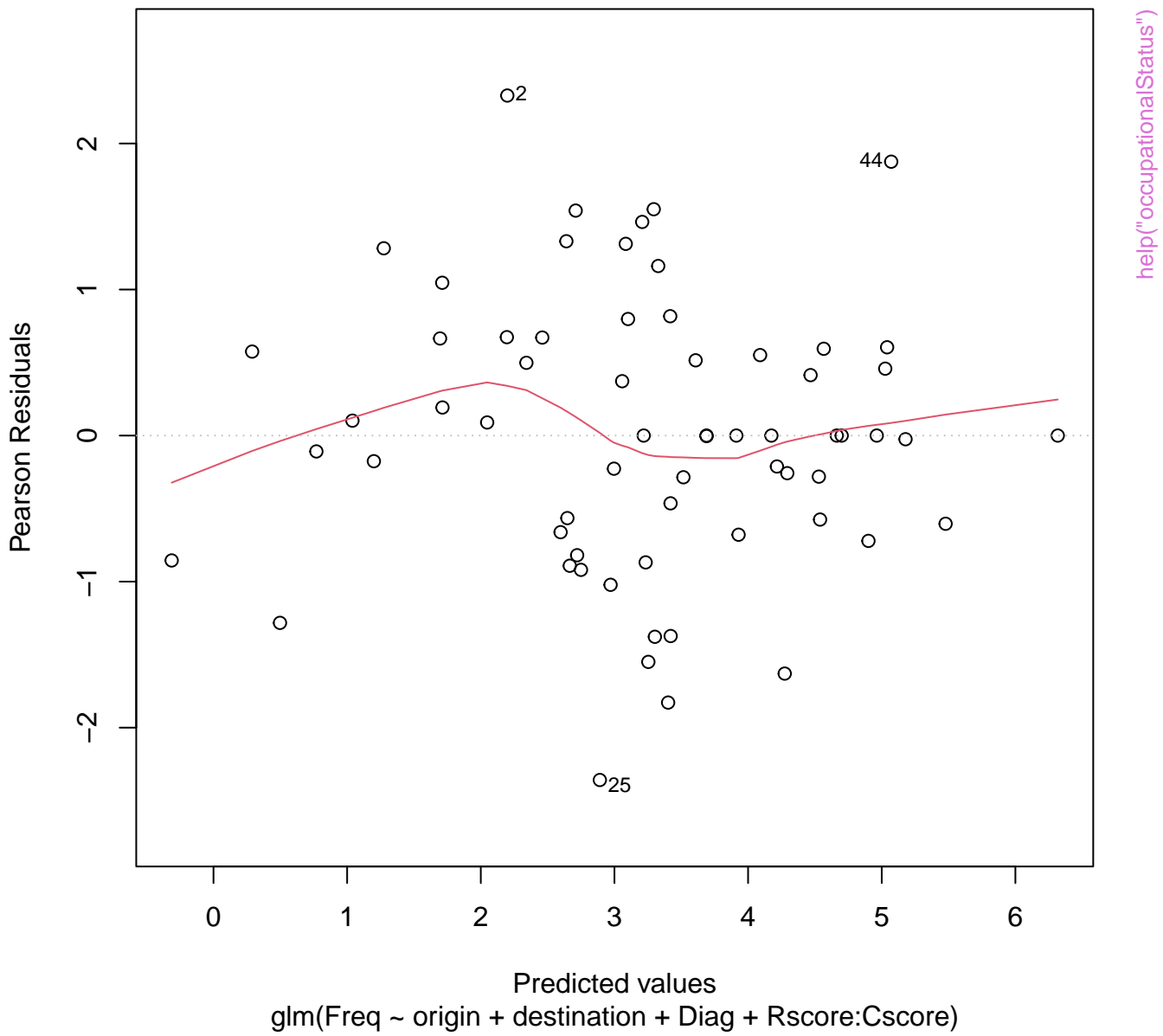




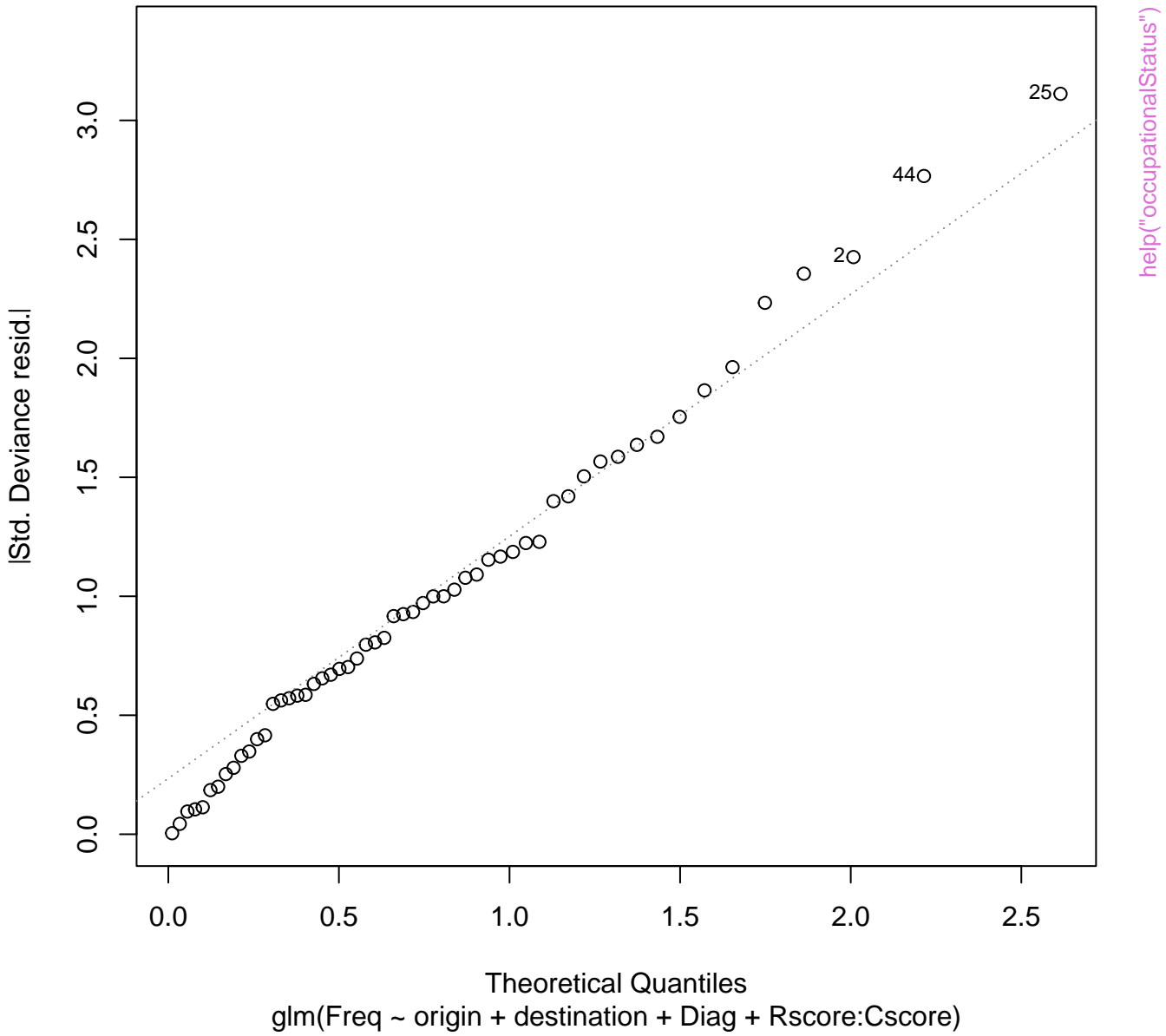
# occupationalStatus

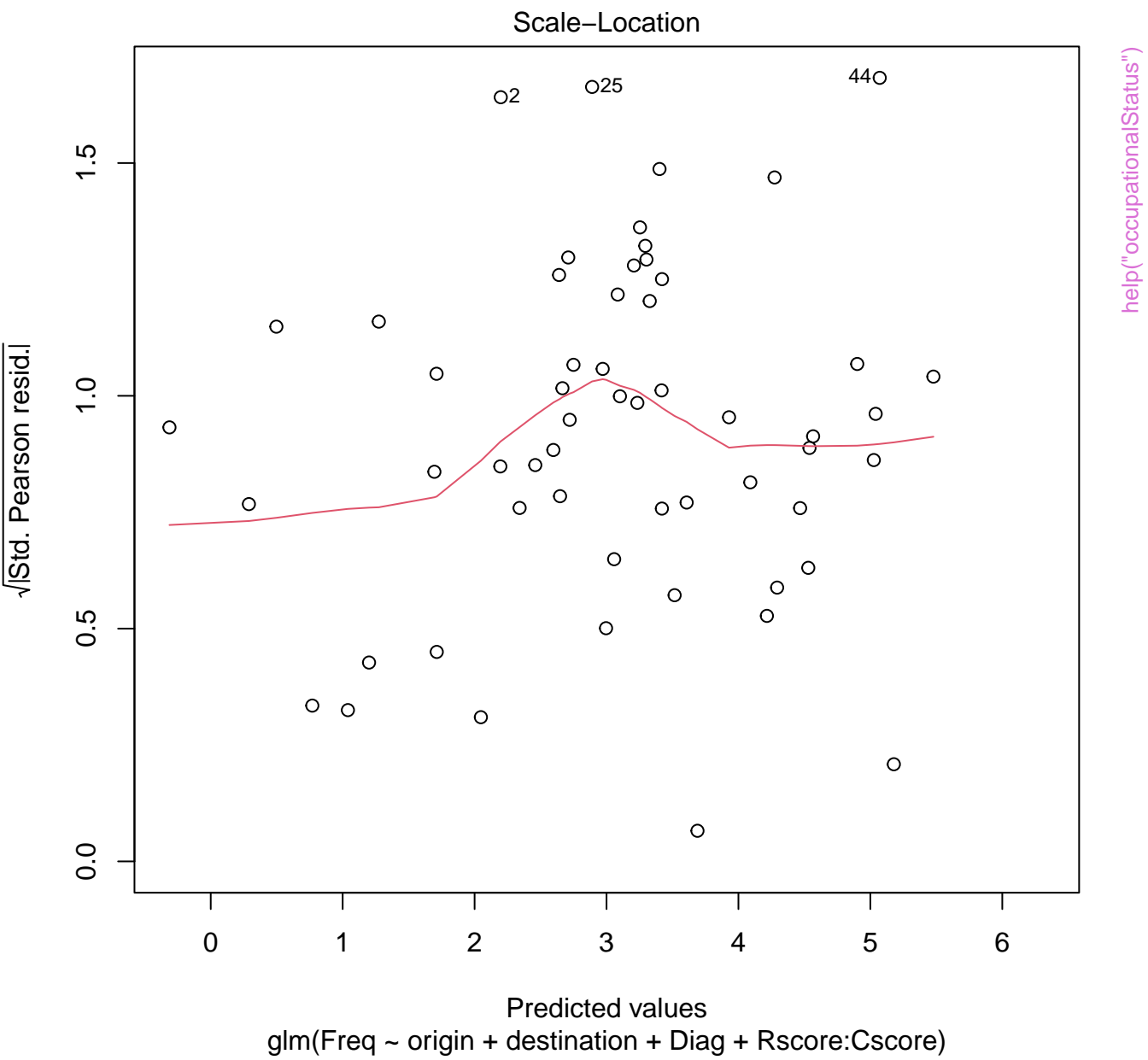


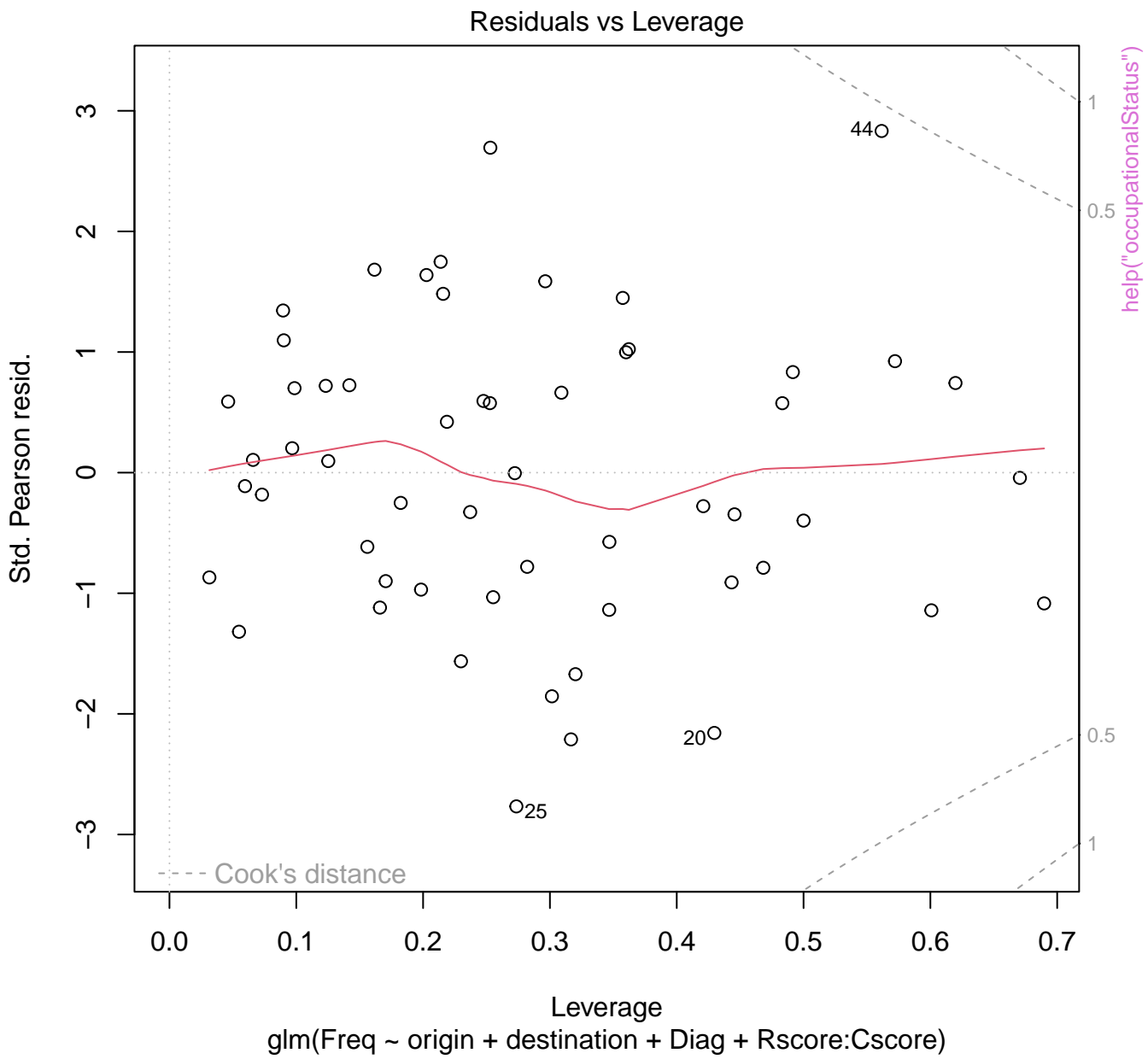
Residuals vs Fitted



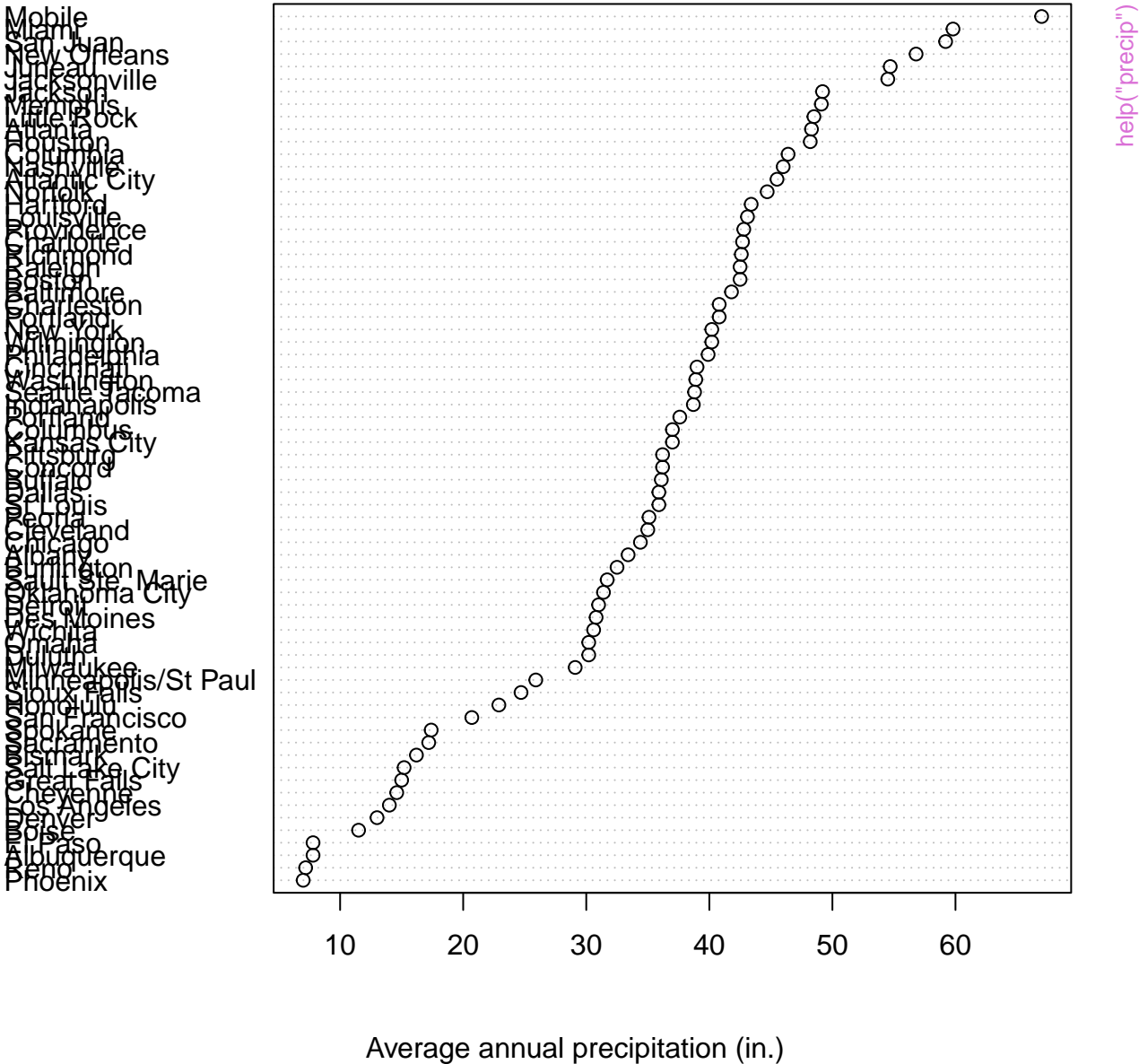
# Q-Q Residuals



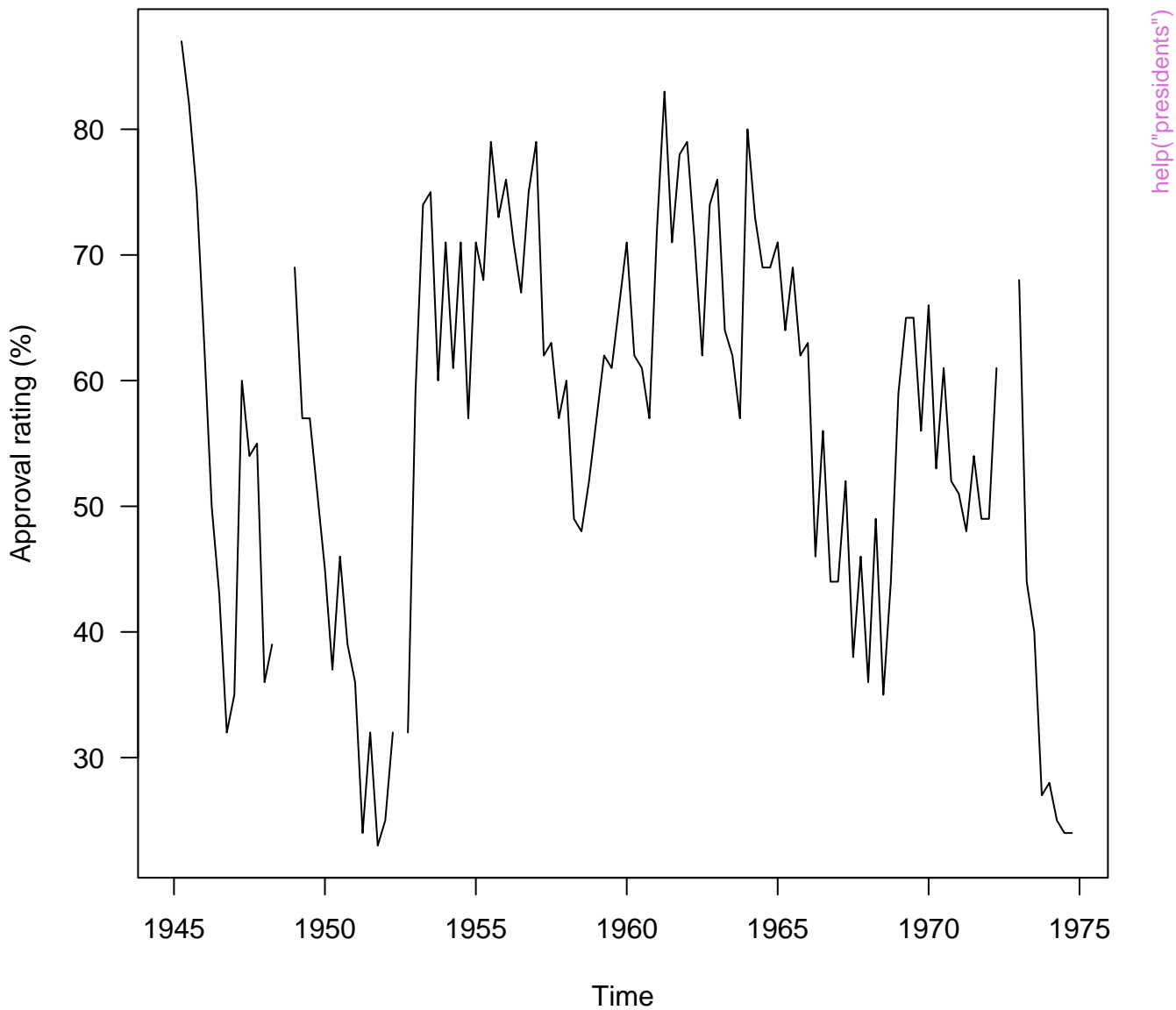




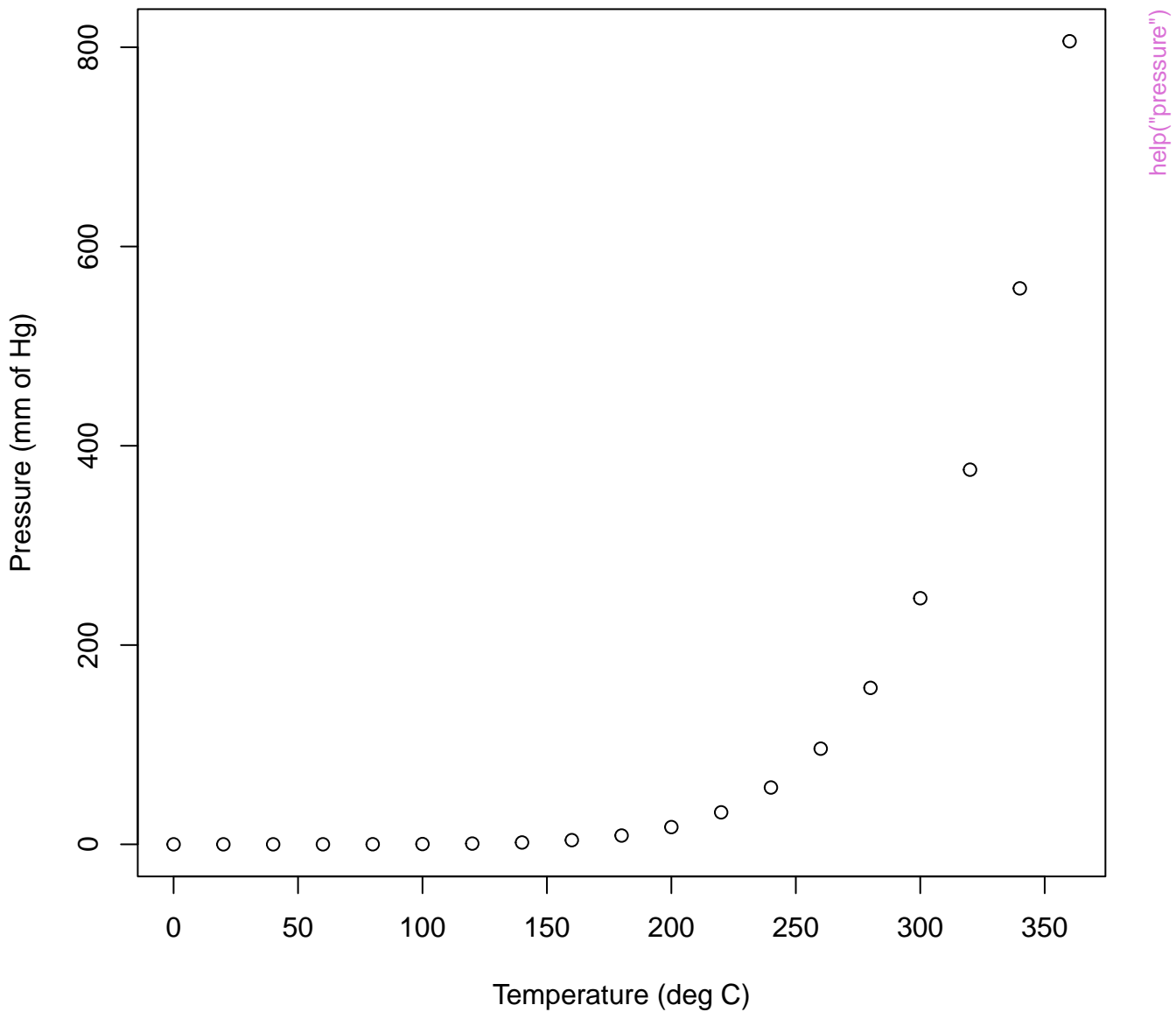
## precip data



# presidents data

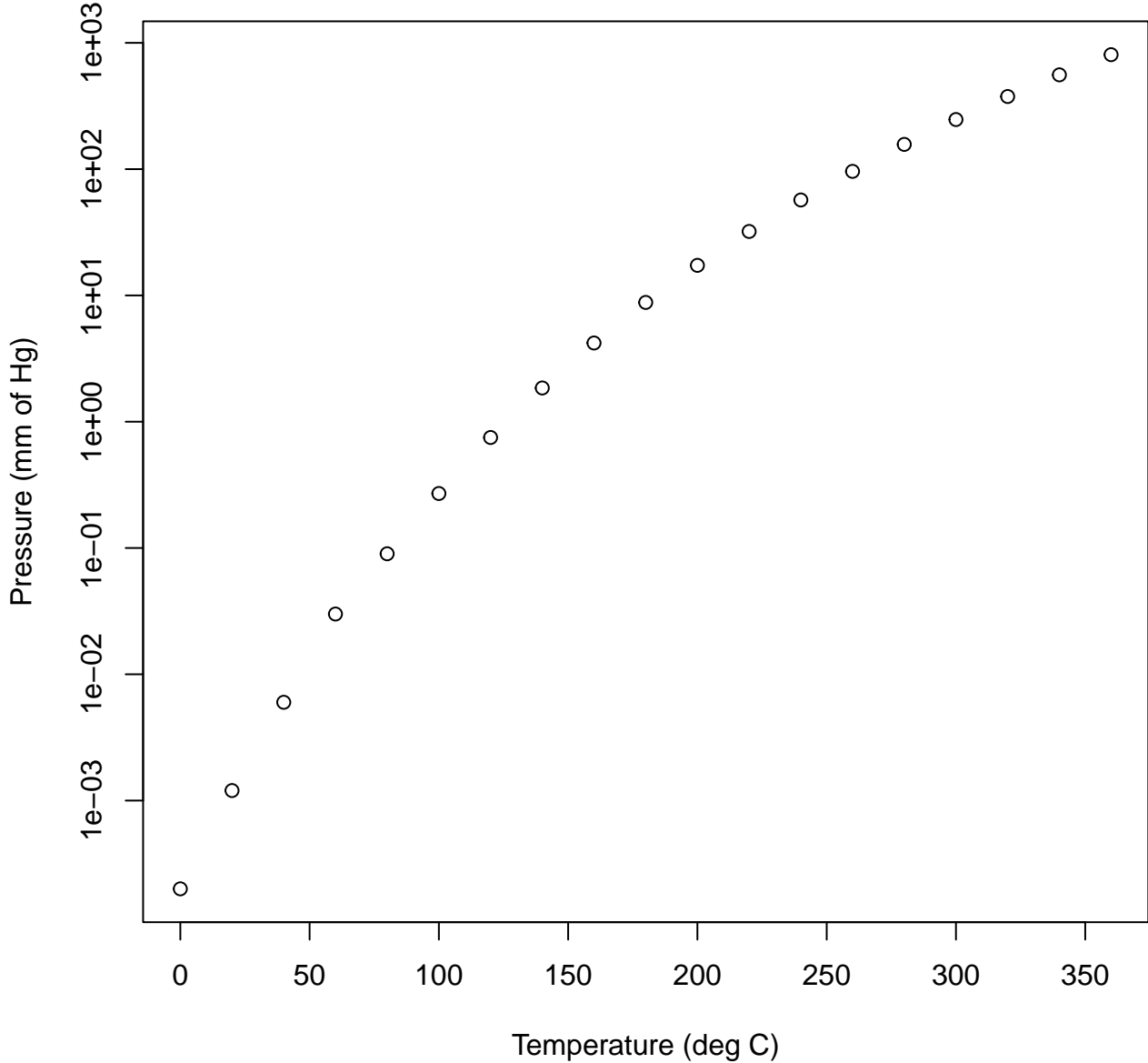


pressure data: Vapor Pressure of Mercury



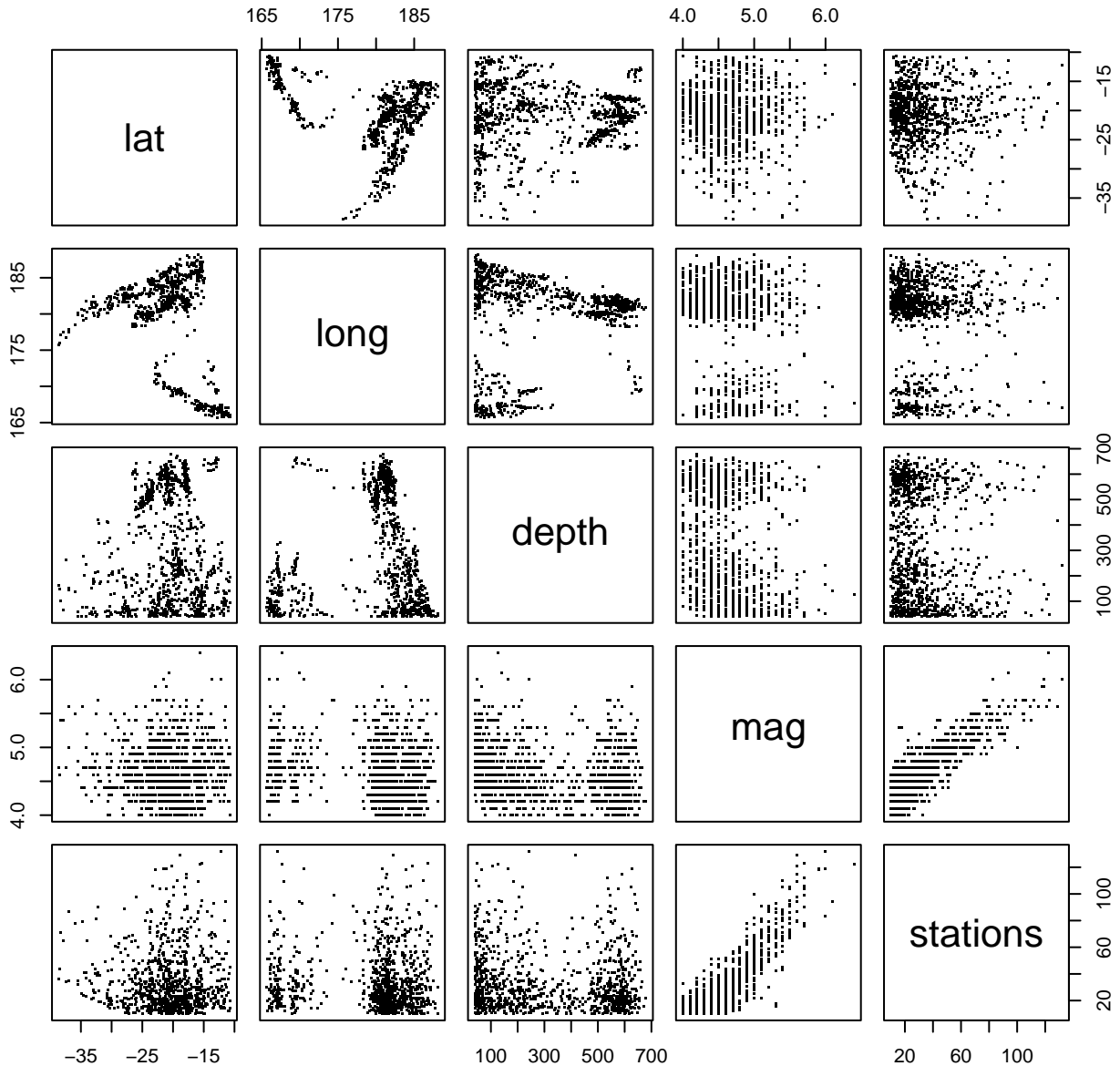


pressure data: Vapor Pressure of Mercury



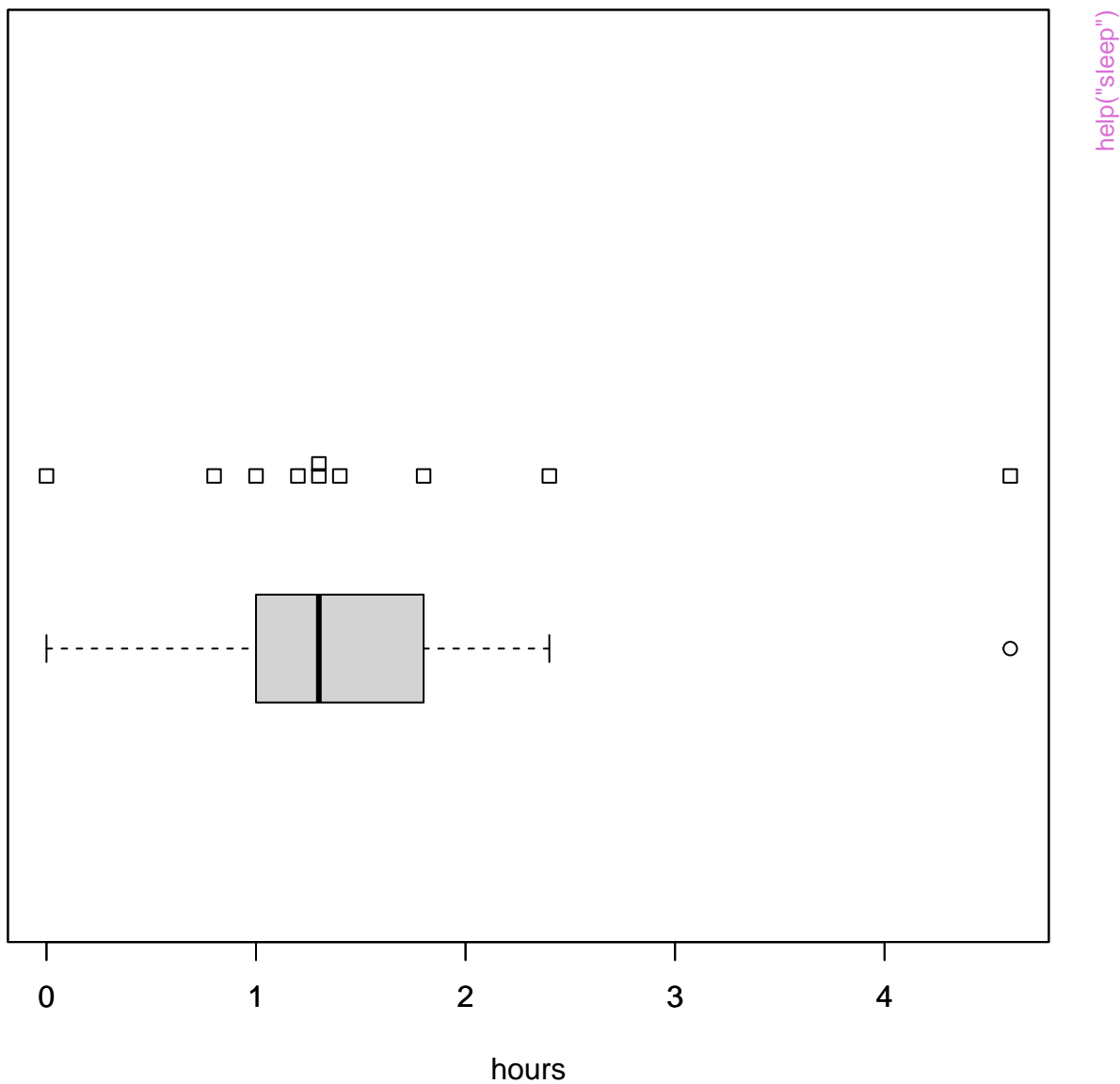
help("pressure")

# Fiji Earthquakes, N = 1000

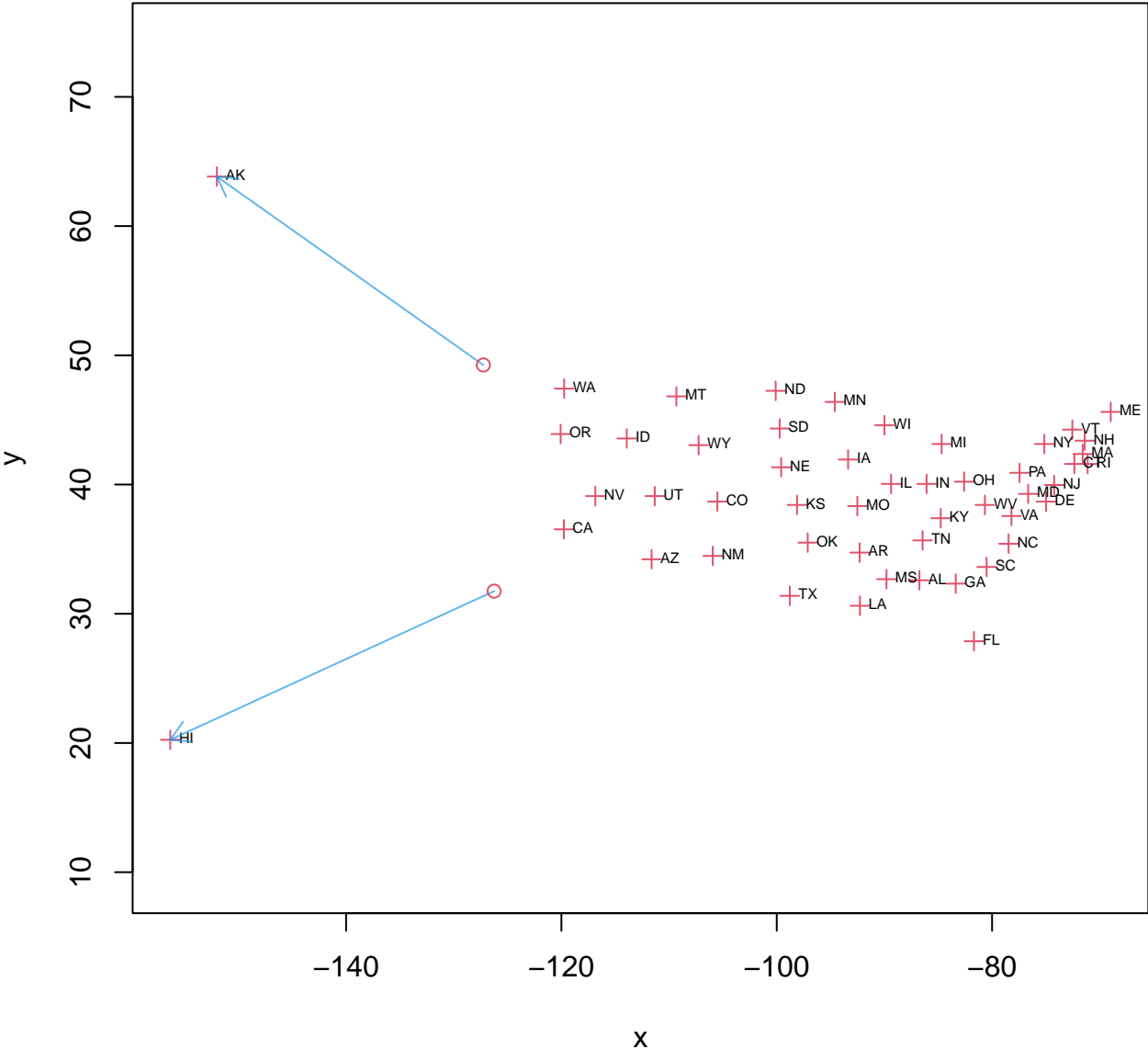


[help\("quakes"\)](#)

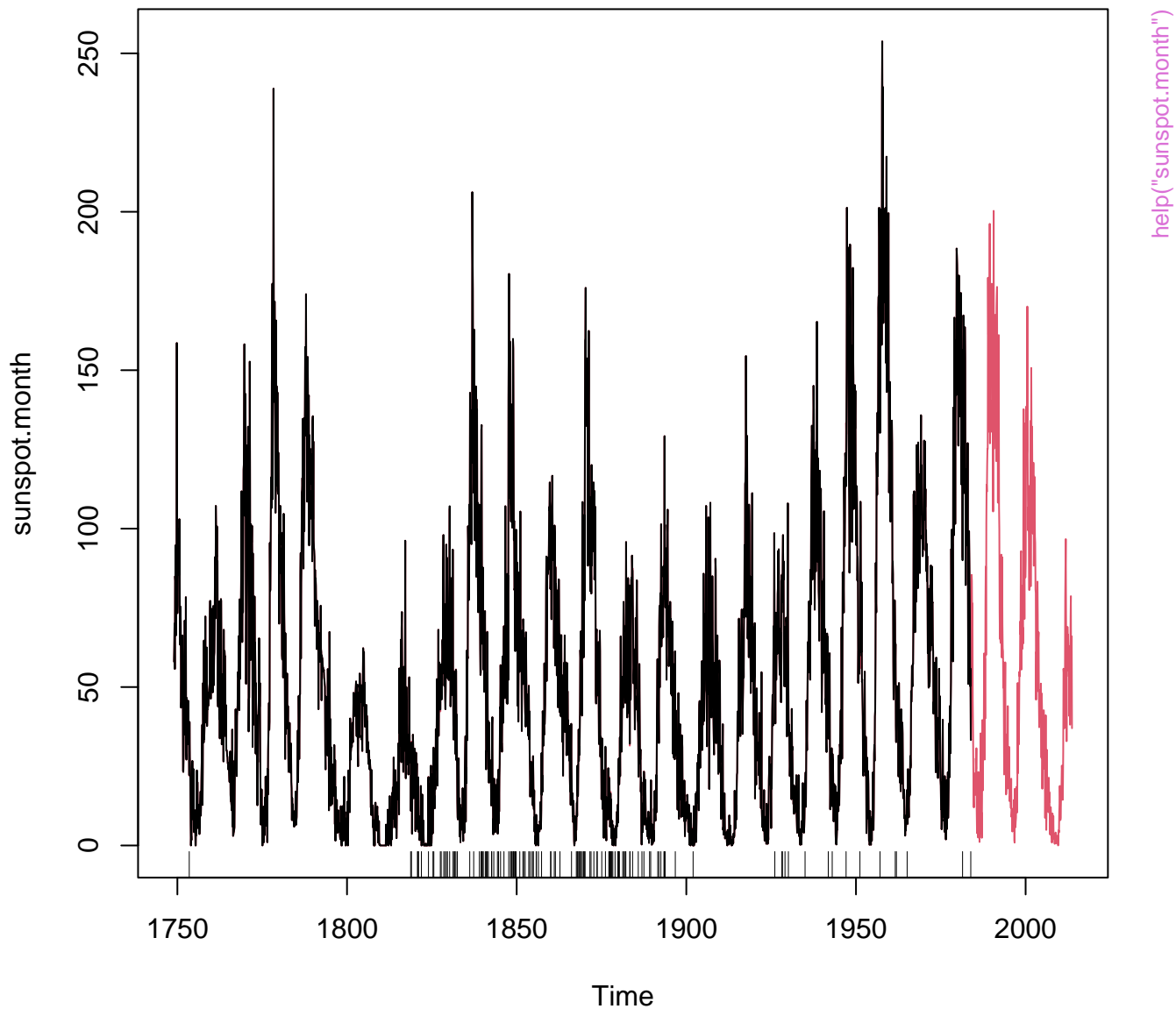
## Sleep prolongation (n = 10)



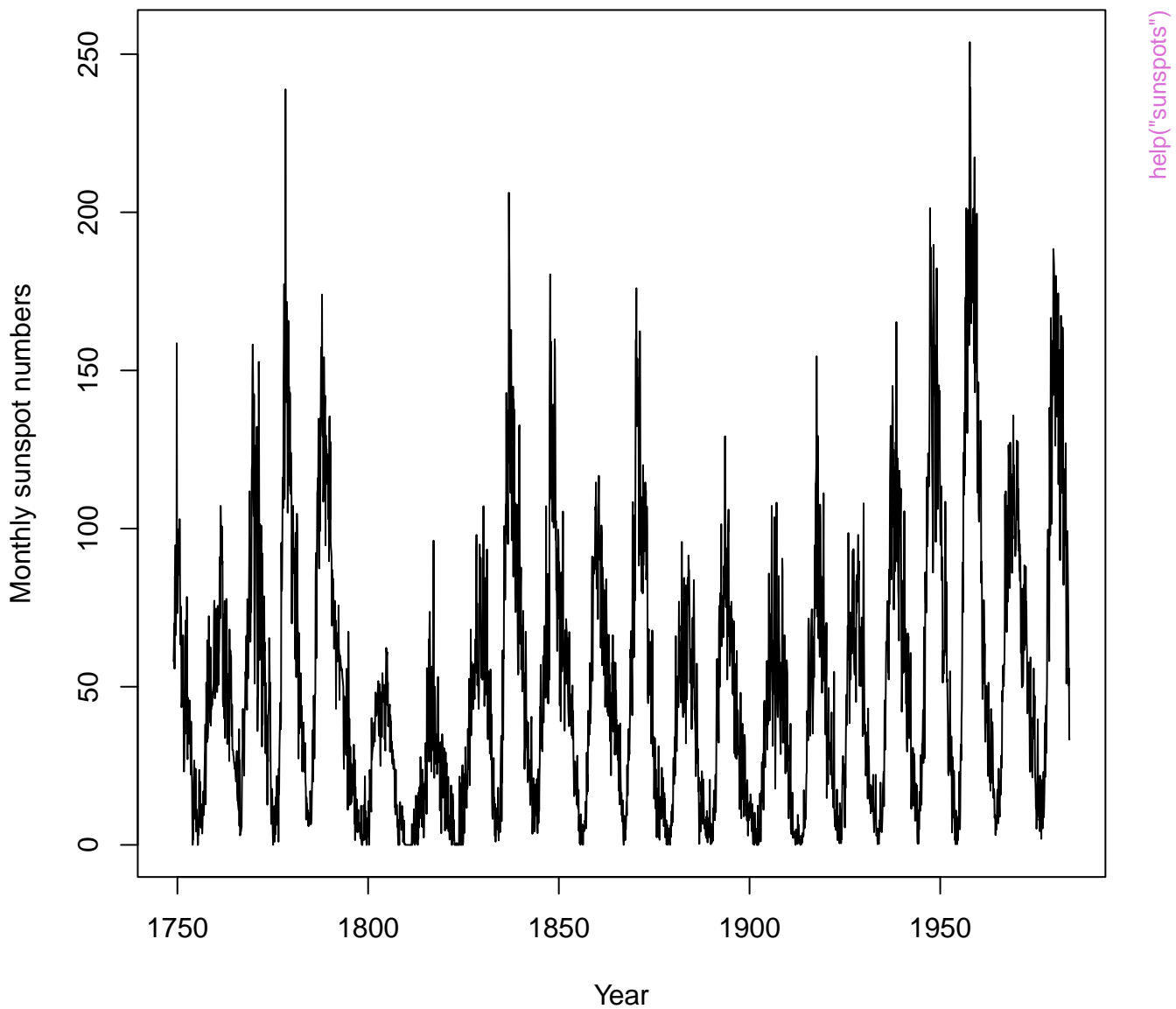
help("state")



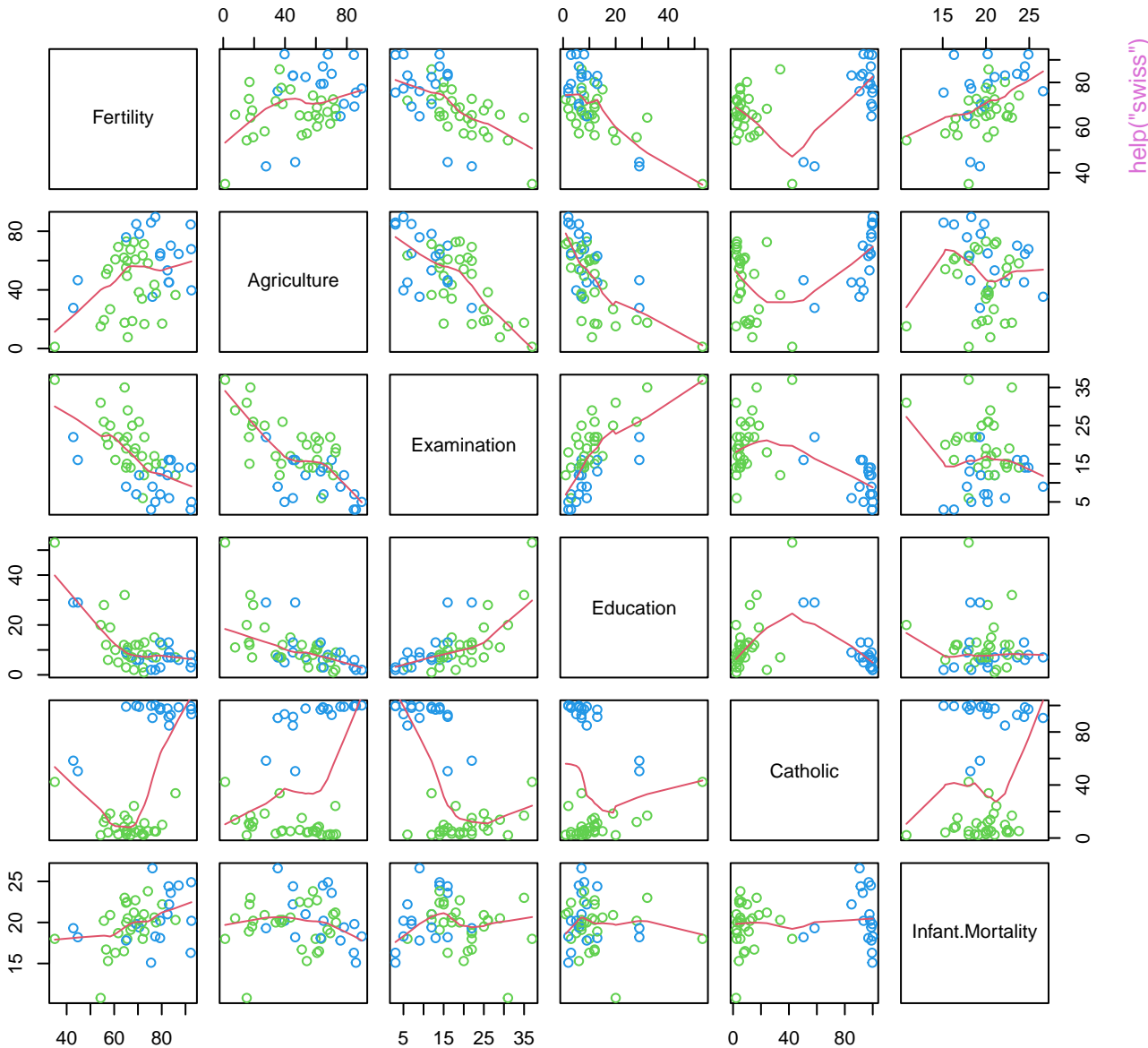
# sunspot.month & sunspots [package'datasets']



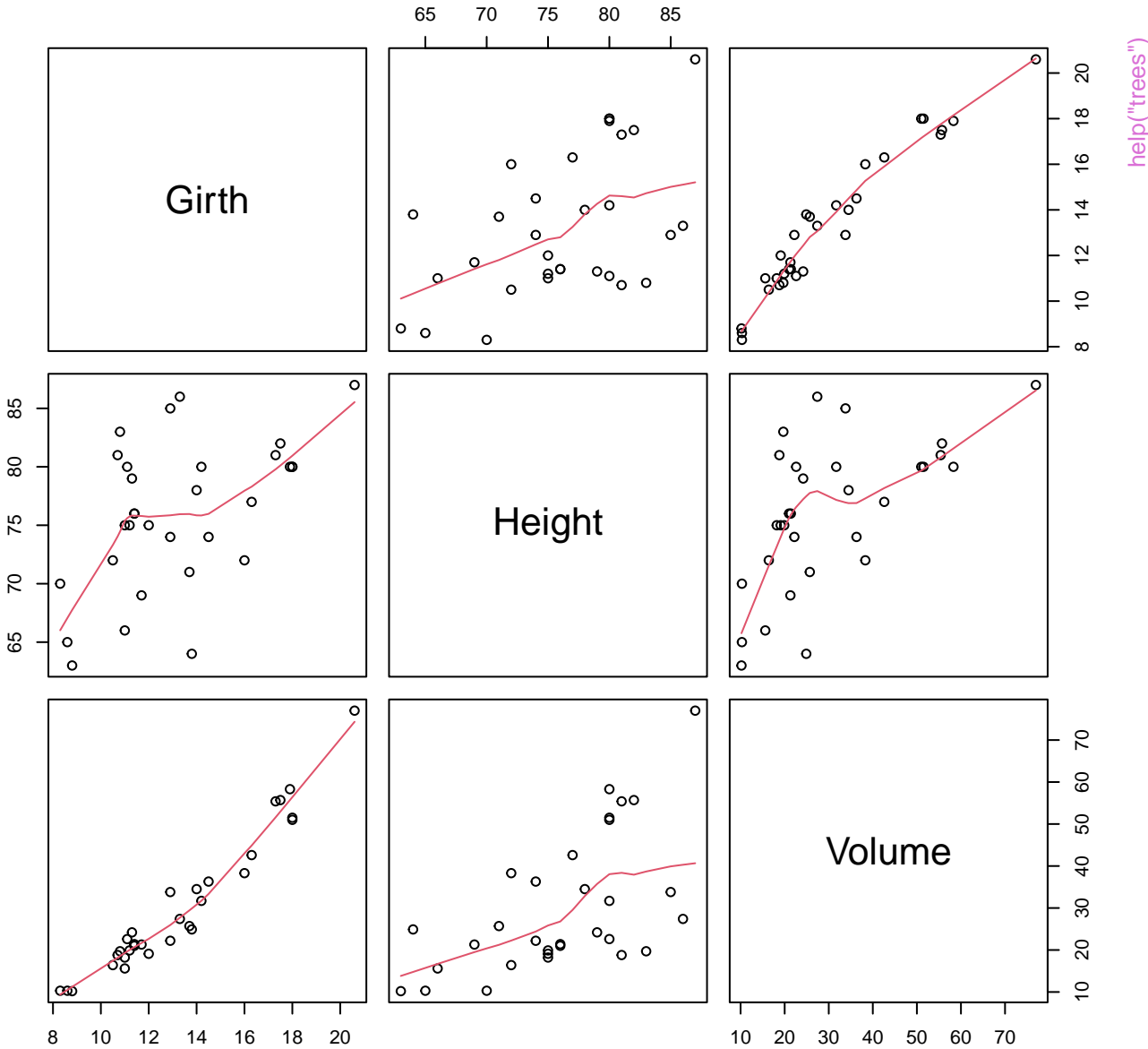
# sunspots data



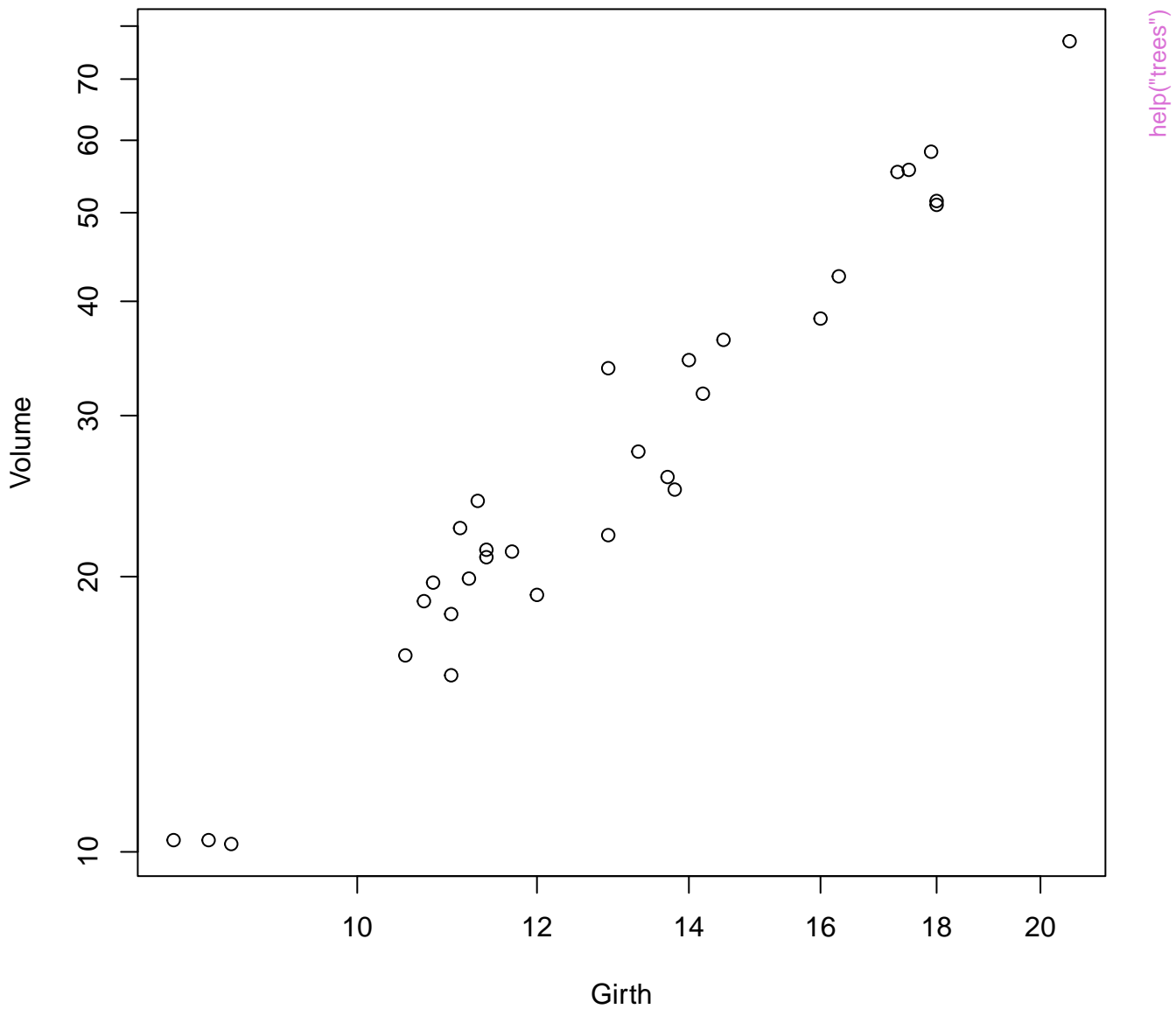
# swiss data



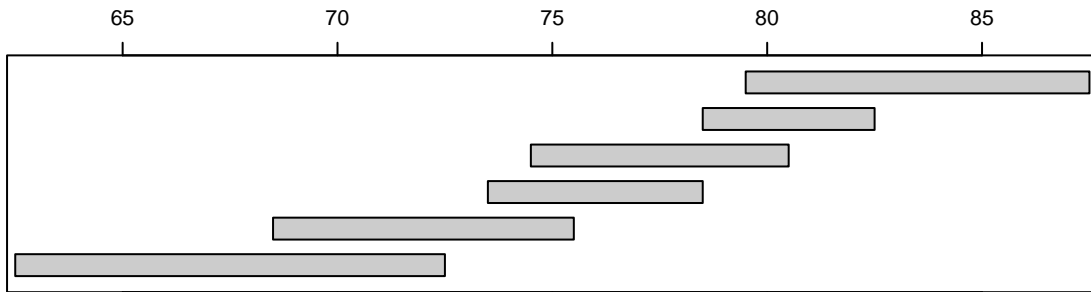
# trees data



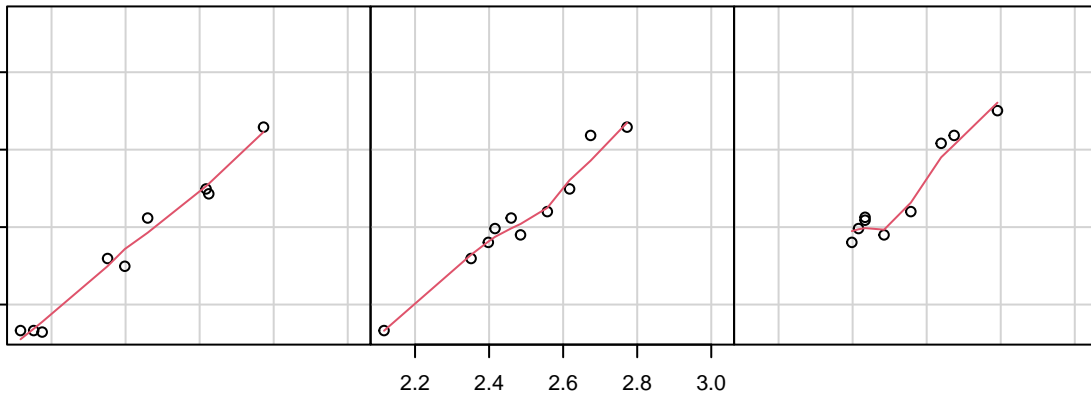
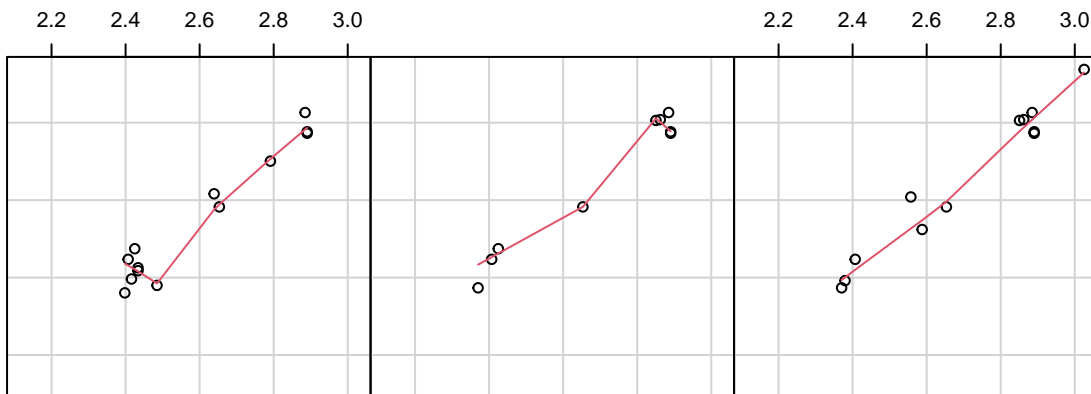




Given : Height



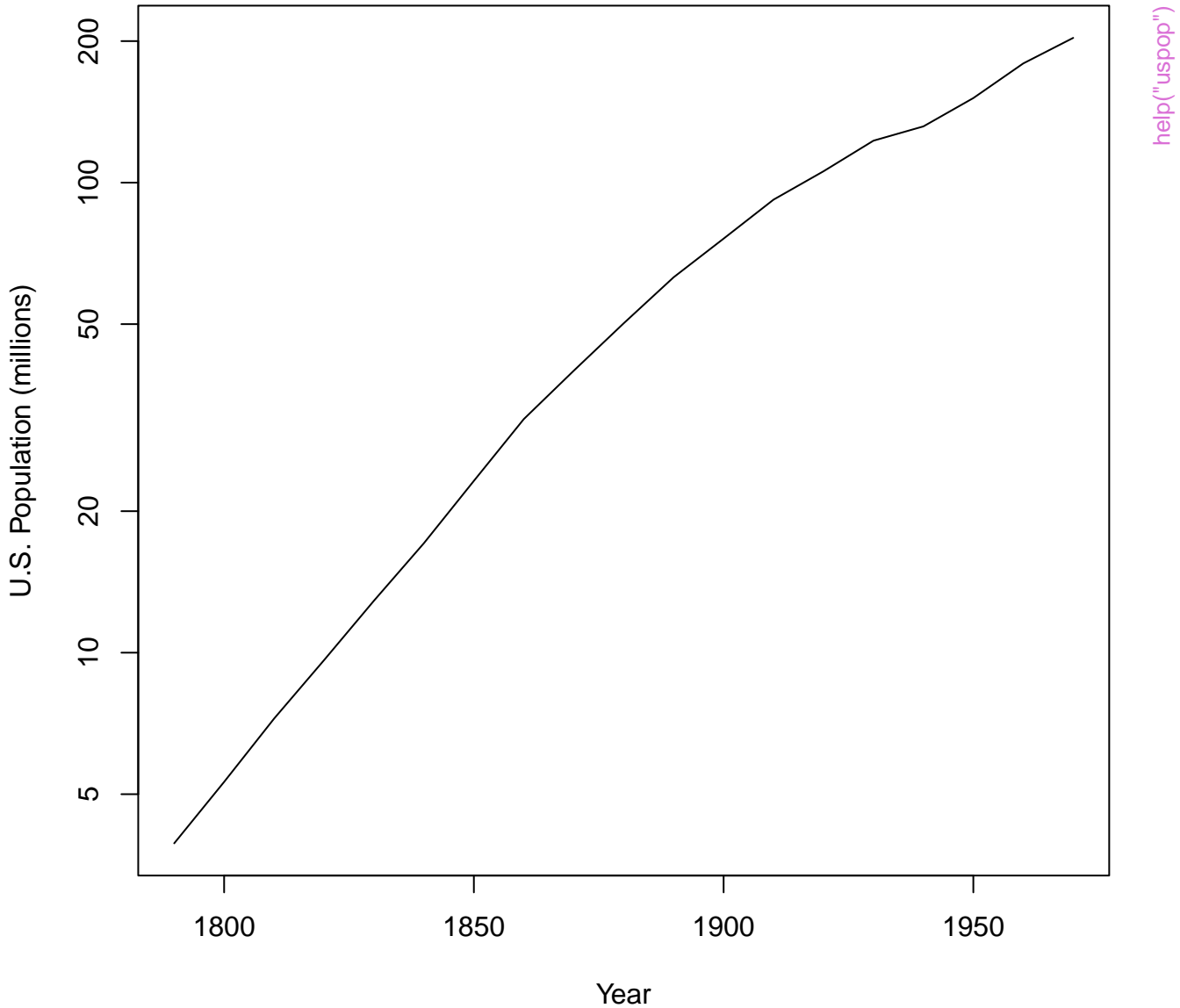
help("trees")



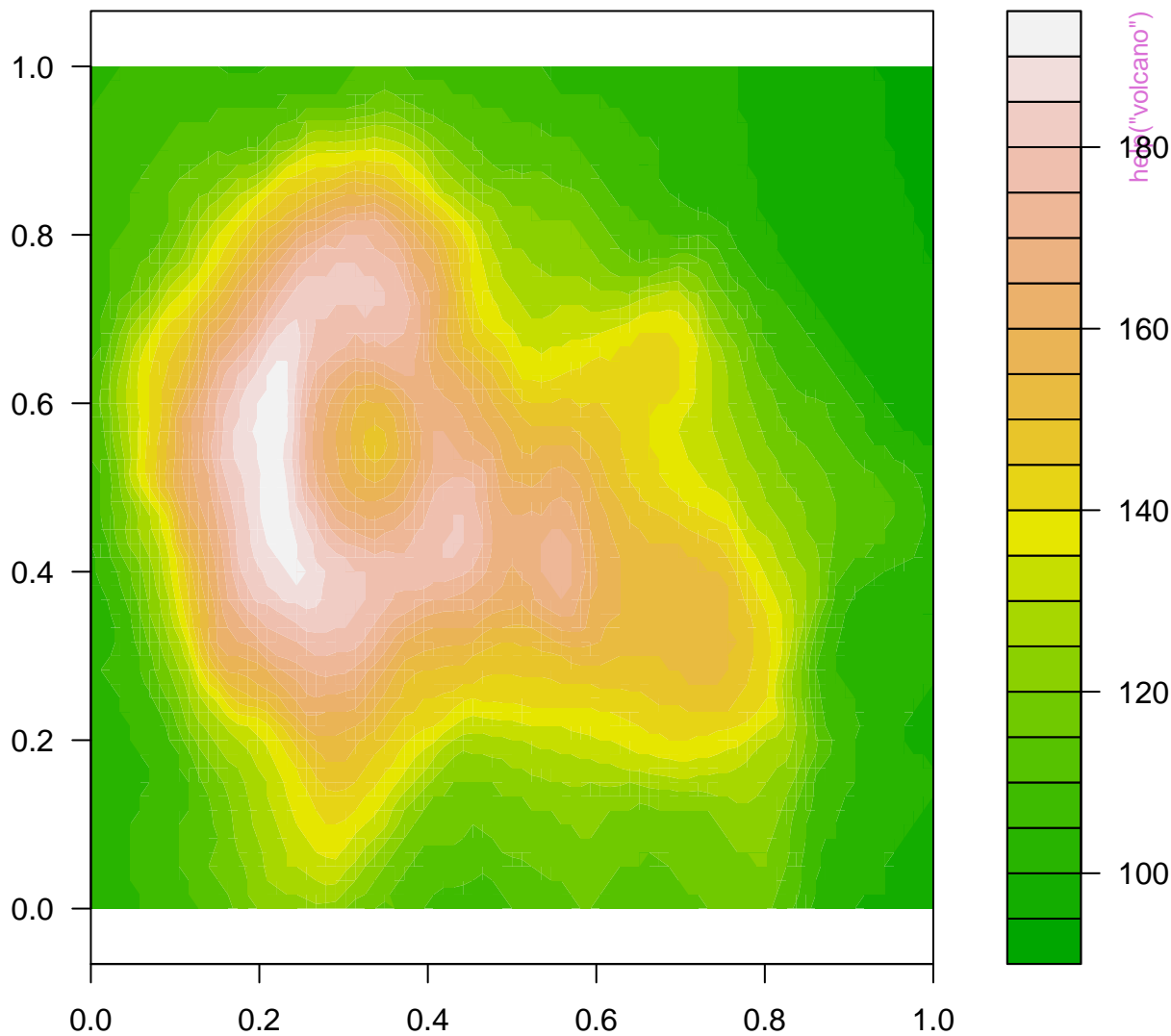
$\log(\text{Girth})$

$\log(\text{Volume})$

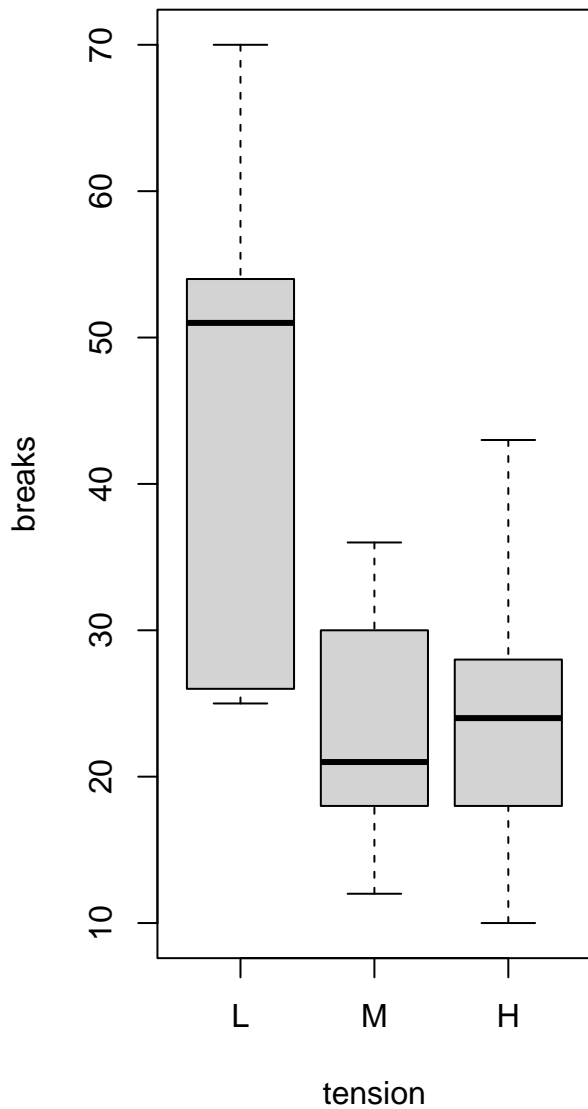
## uspop data



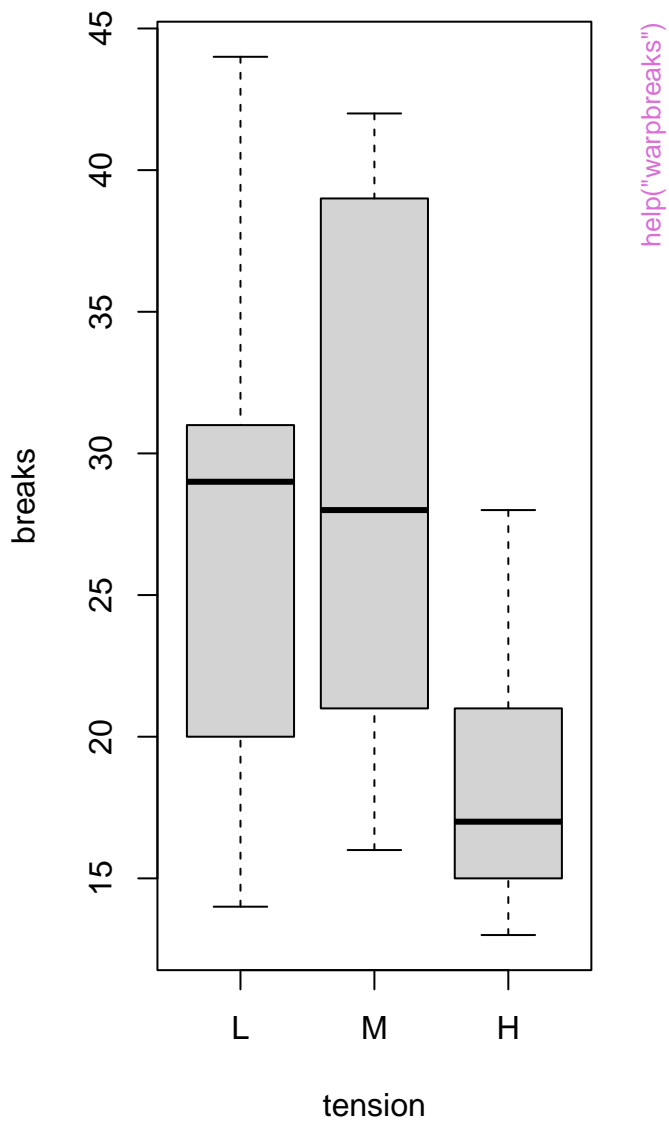
**volcano data: filled contour map**



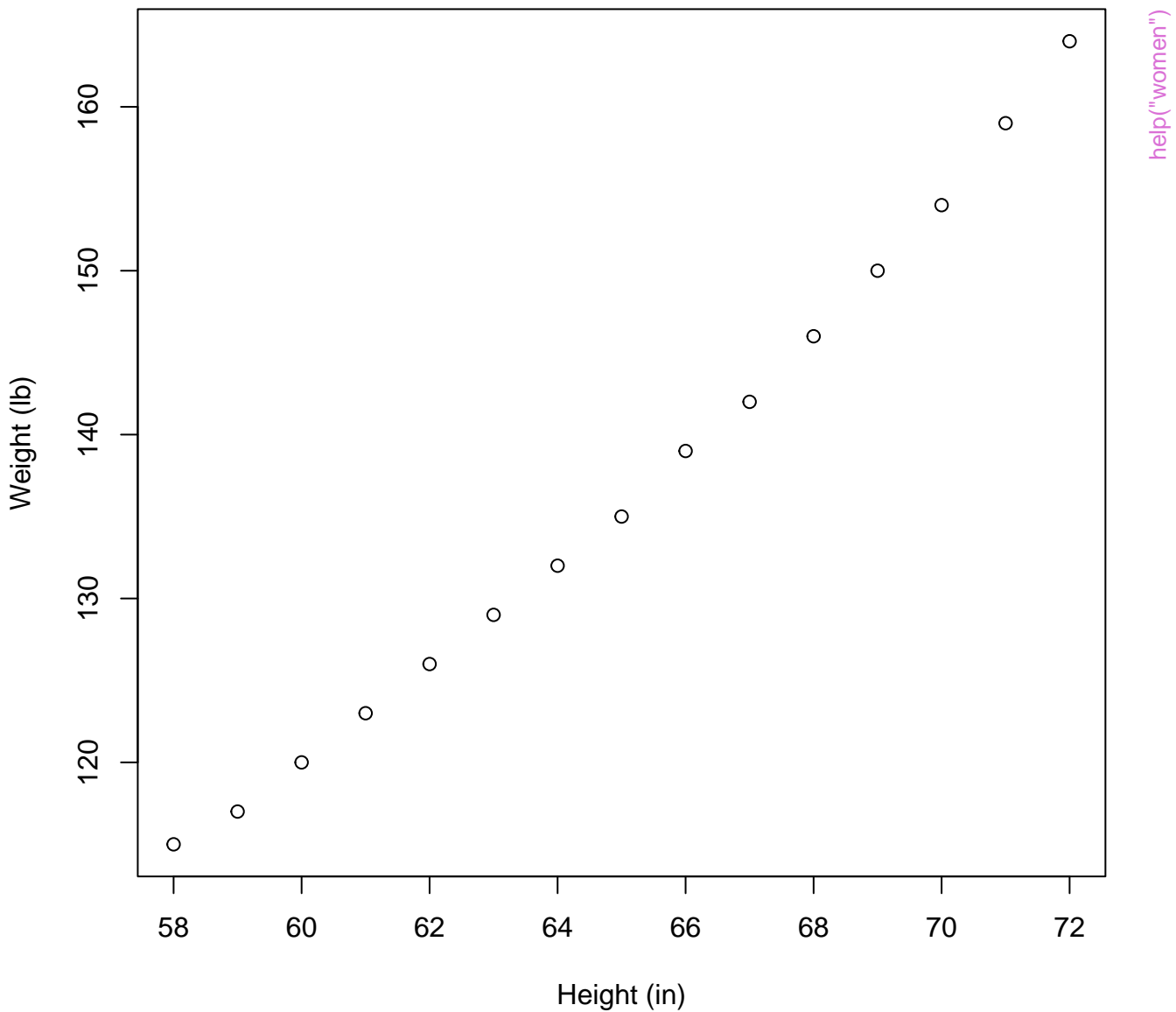
Wool A



Wool B



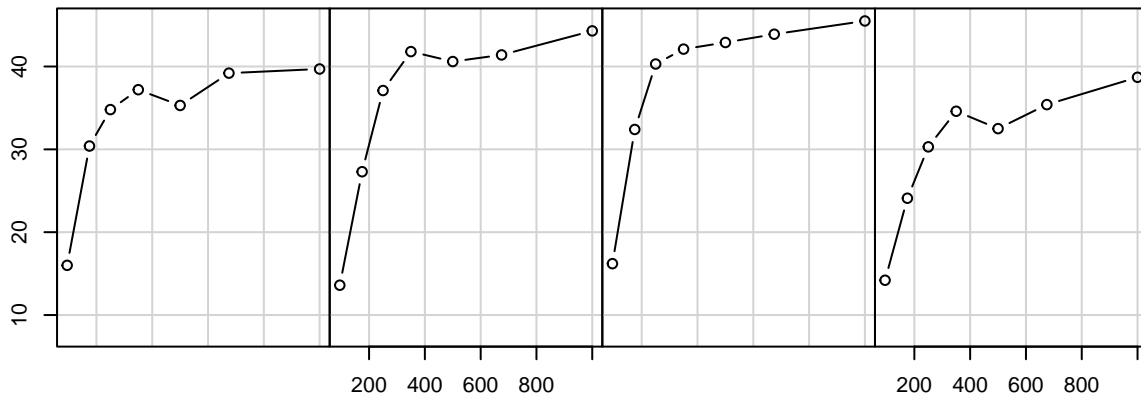
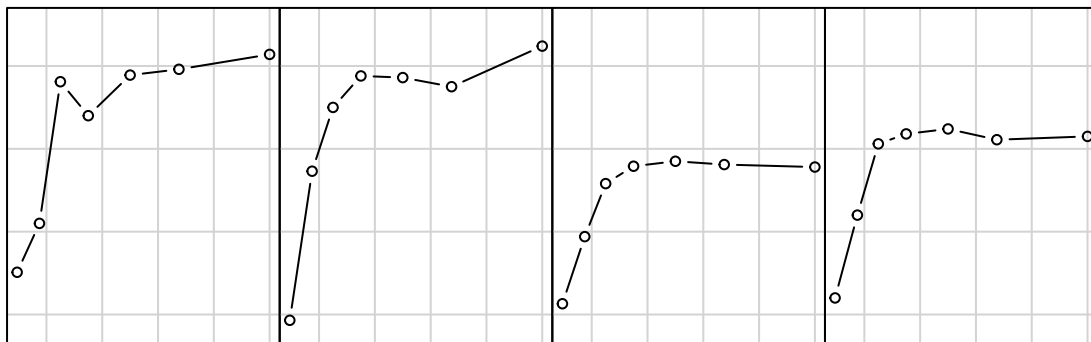
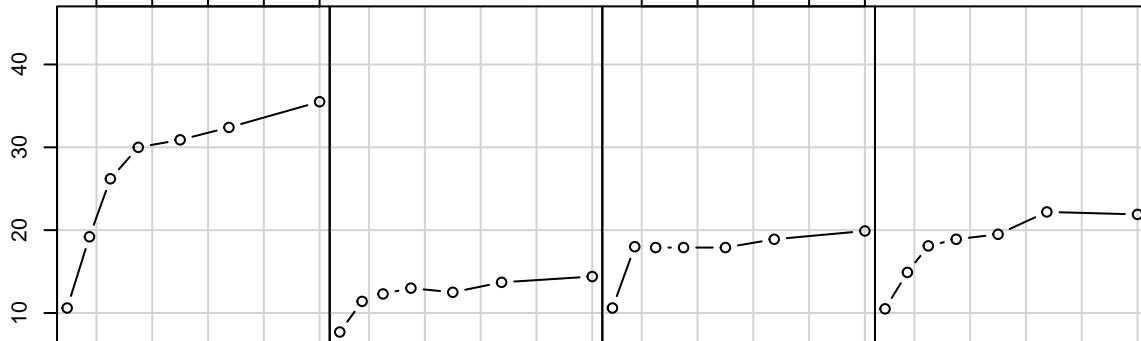
women data: American women aged 30–39



# Given : Plant

200 400 600 800

200 400 600 800



uptake

conc

help("zCO2")