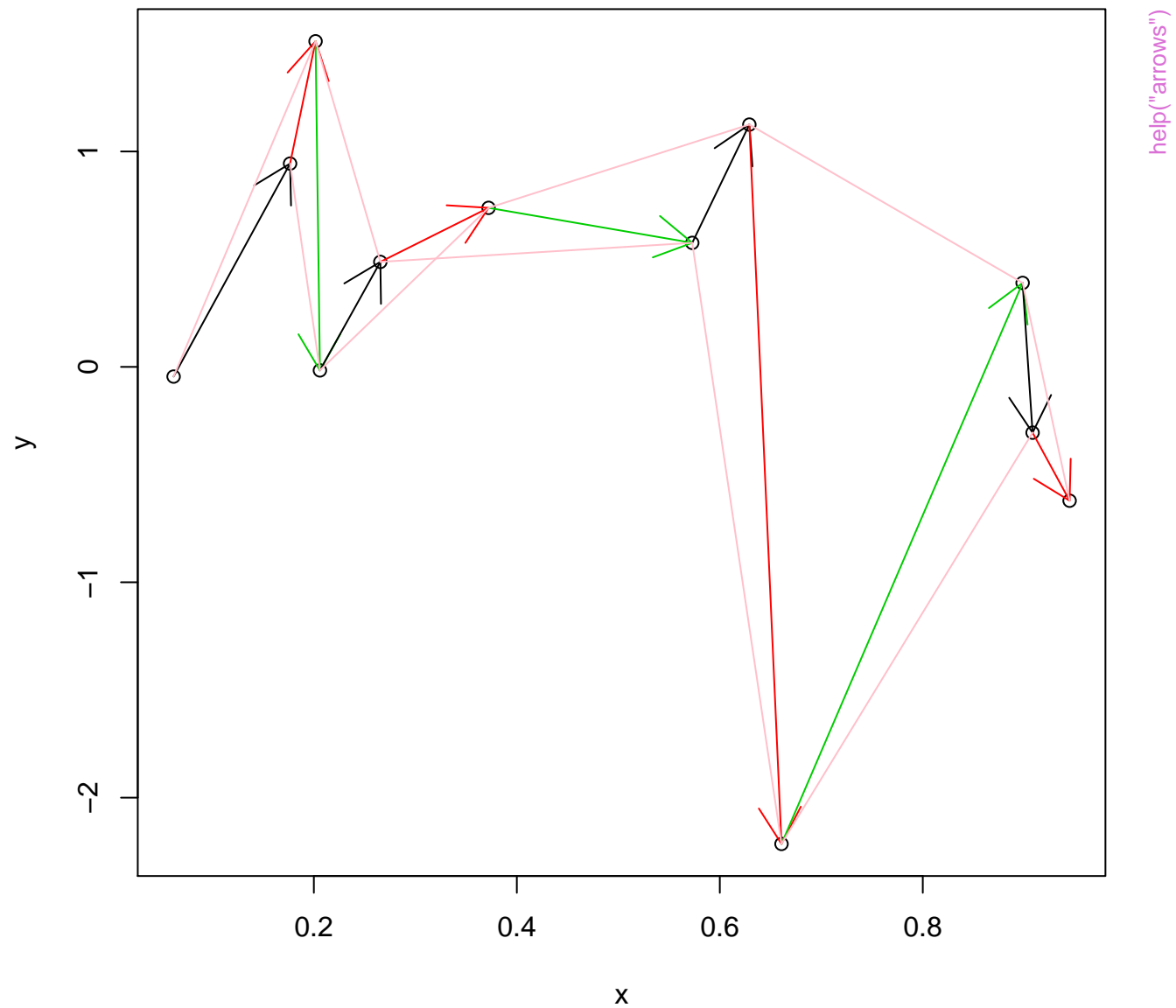
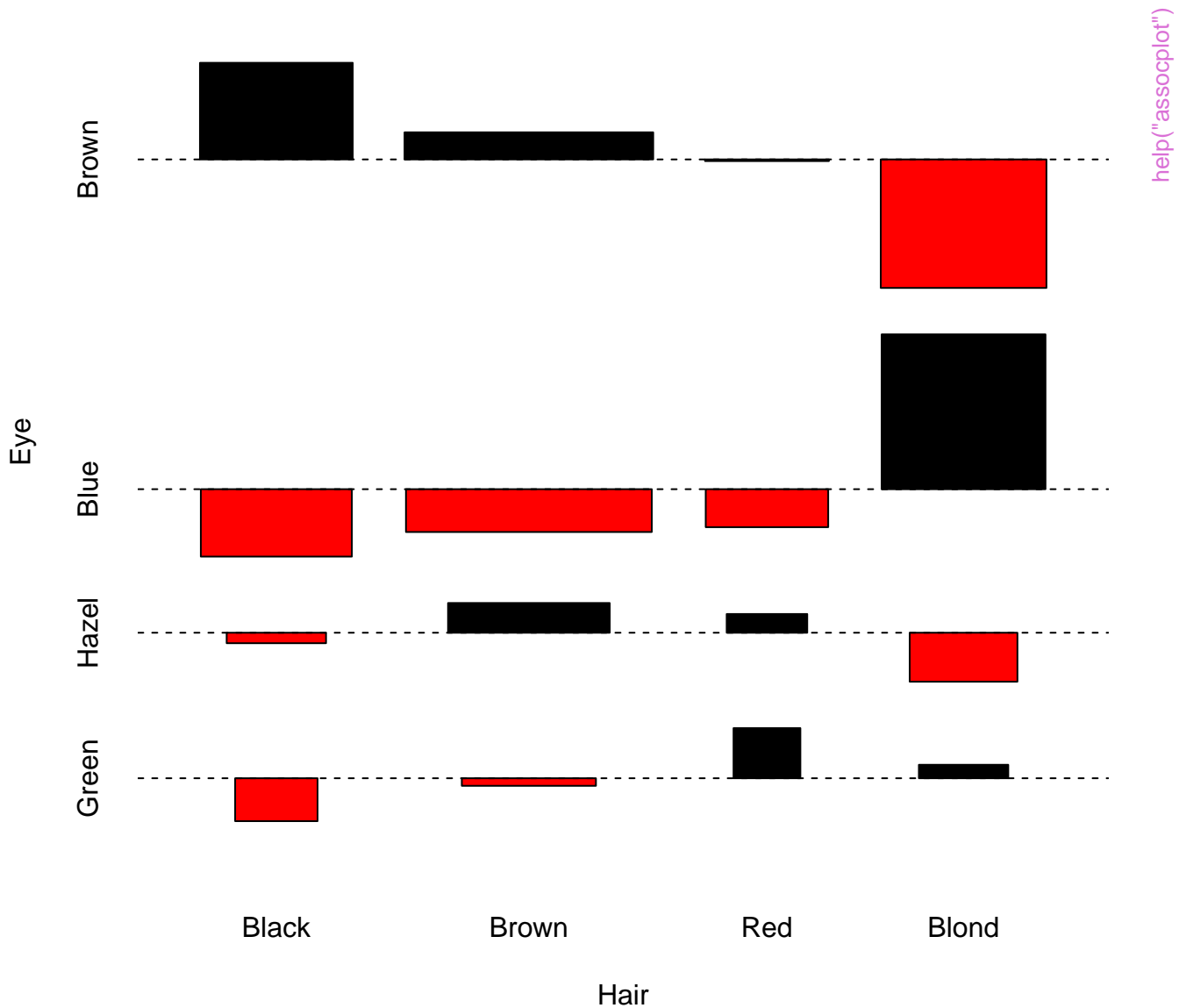
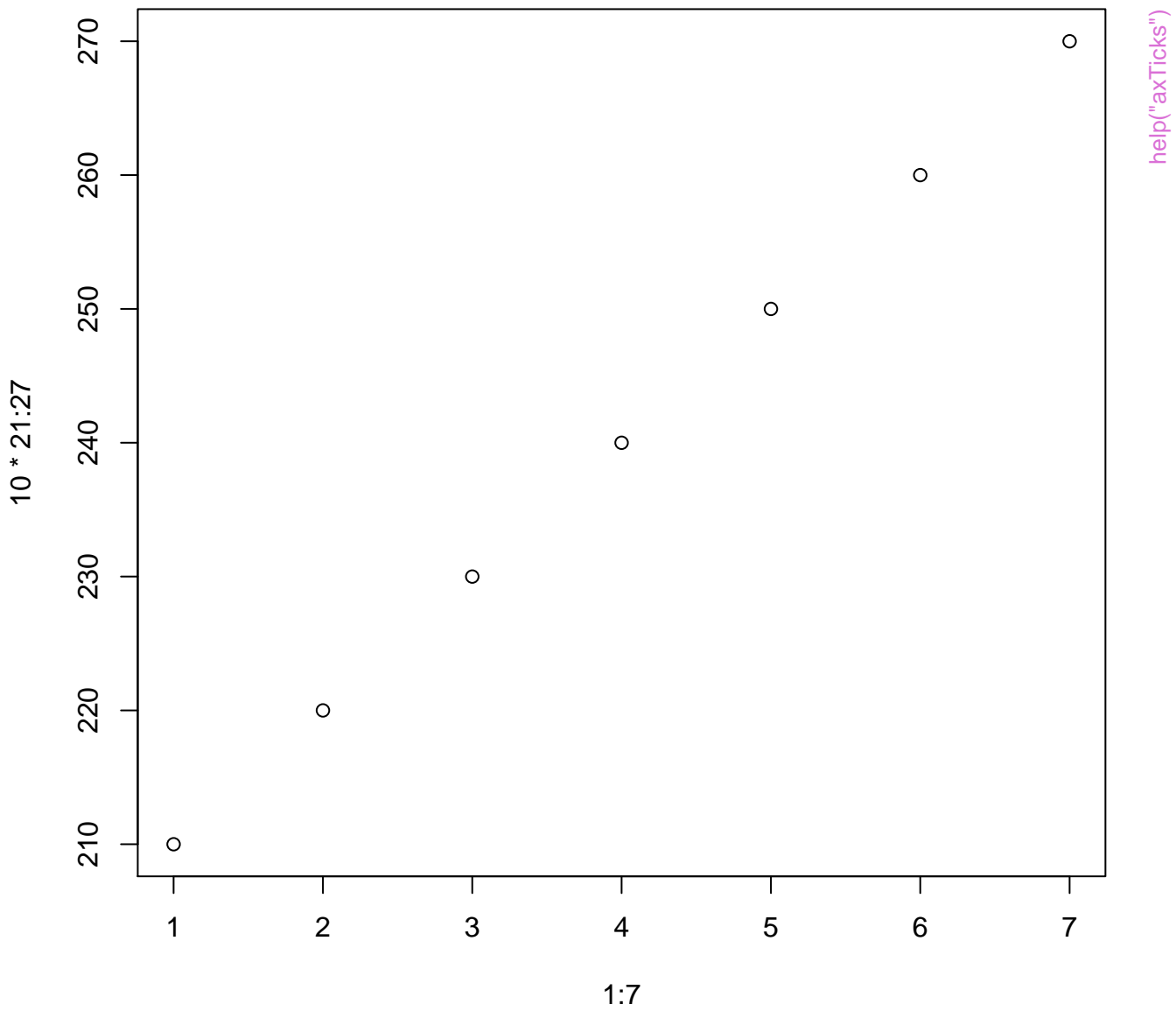


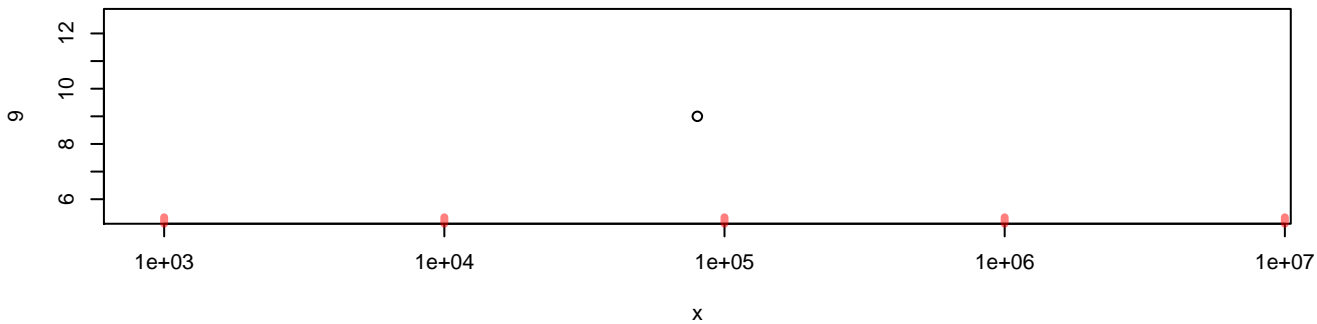
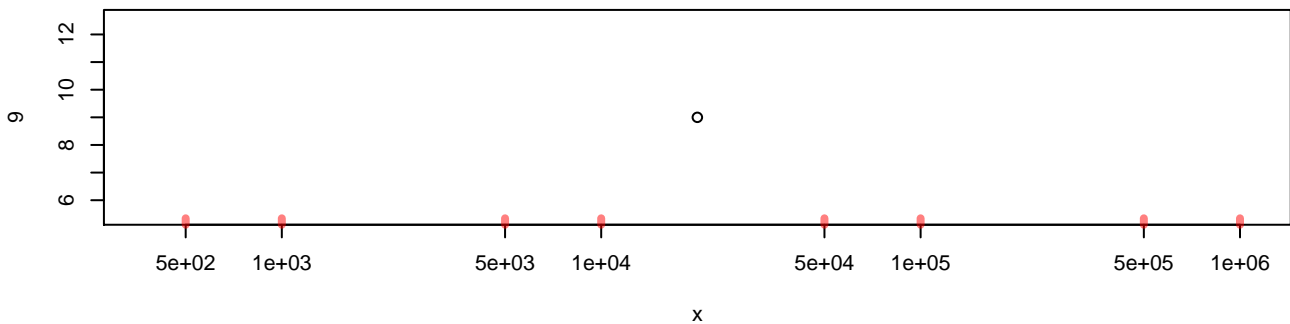
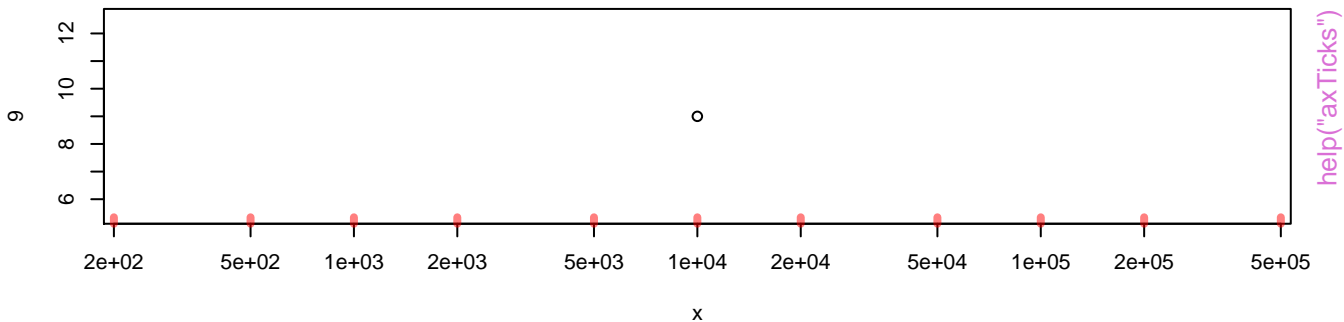
## arrows(.) and segments(.)



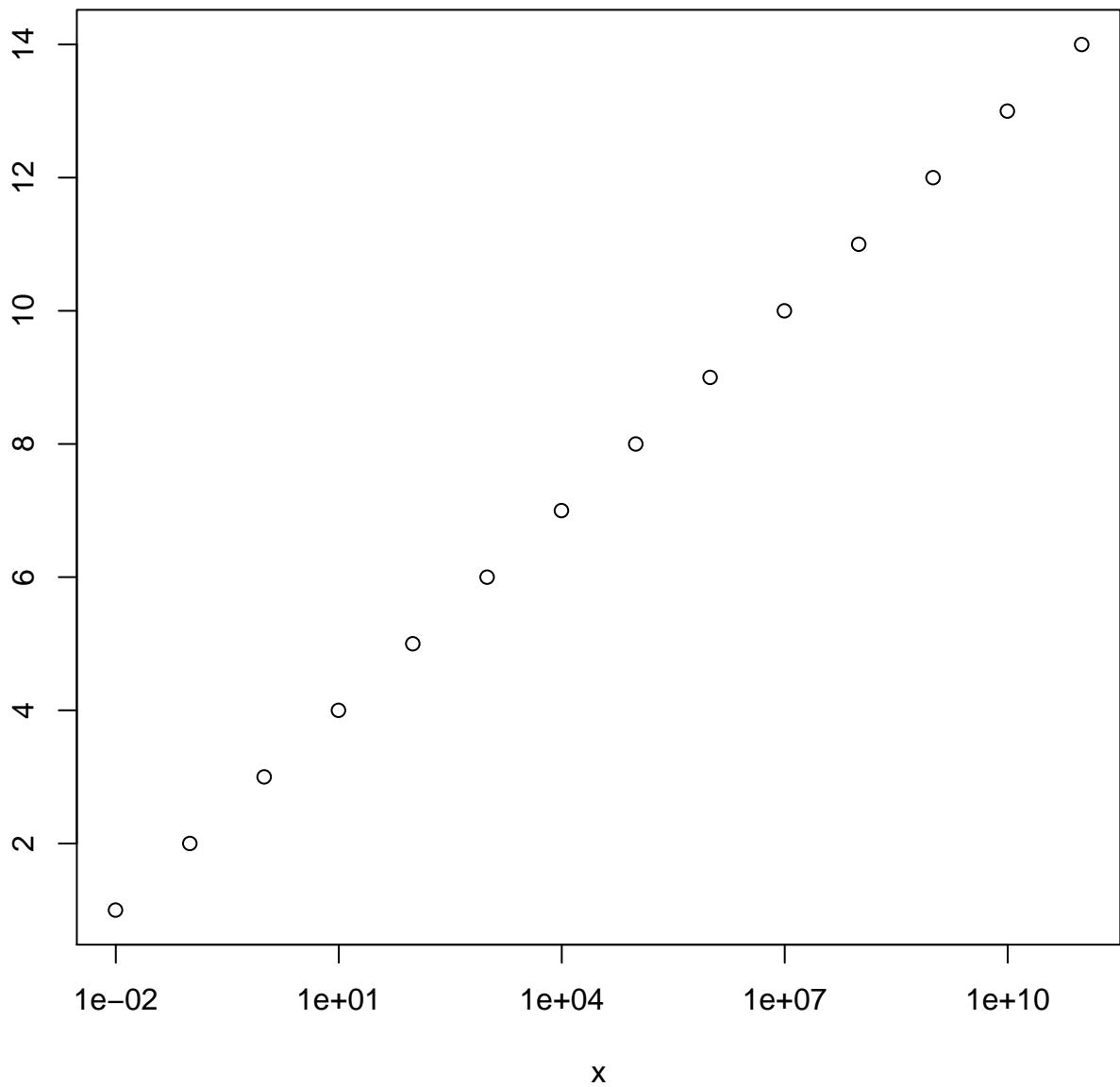
Relation between hair and eye color





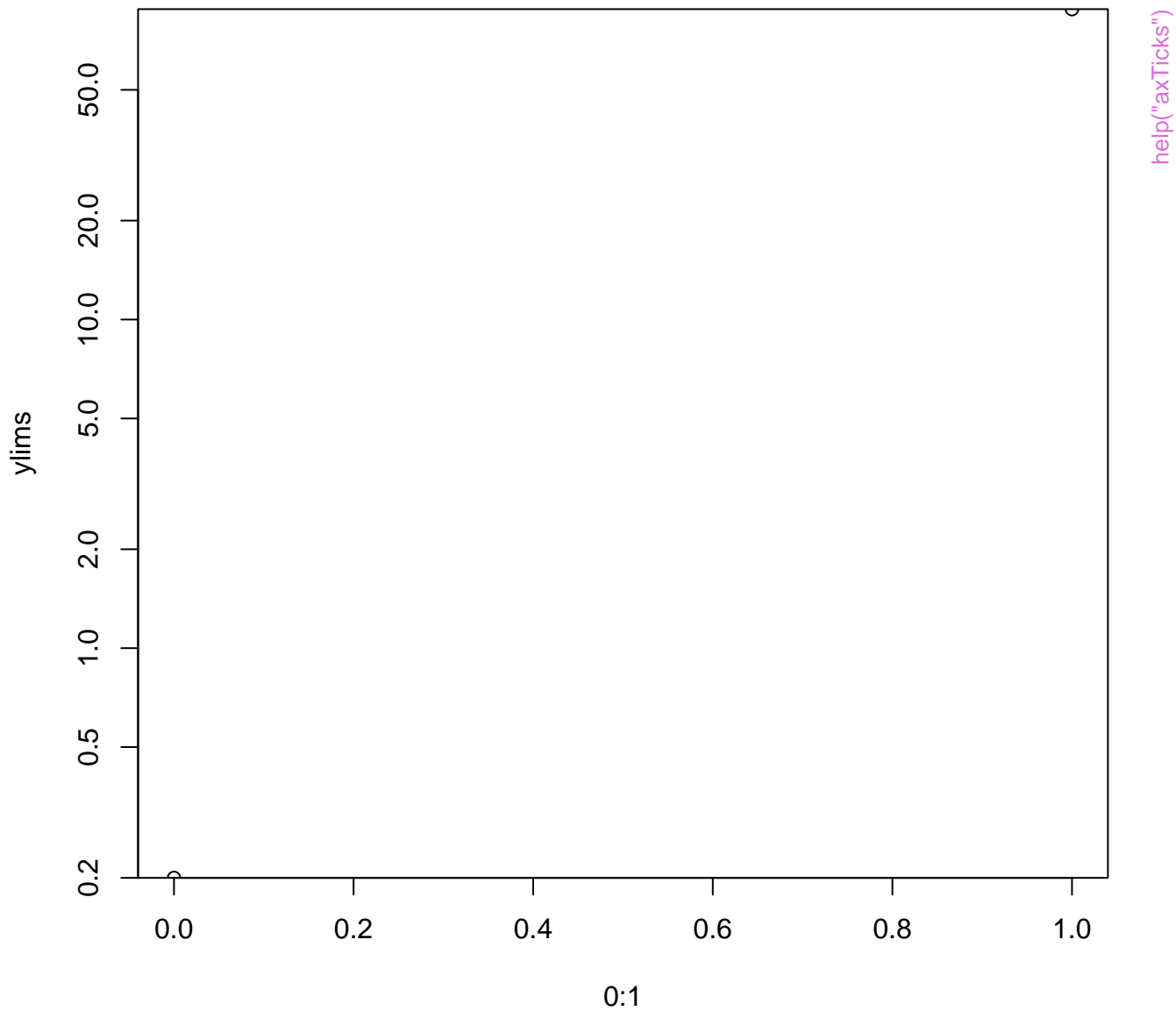


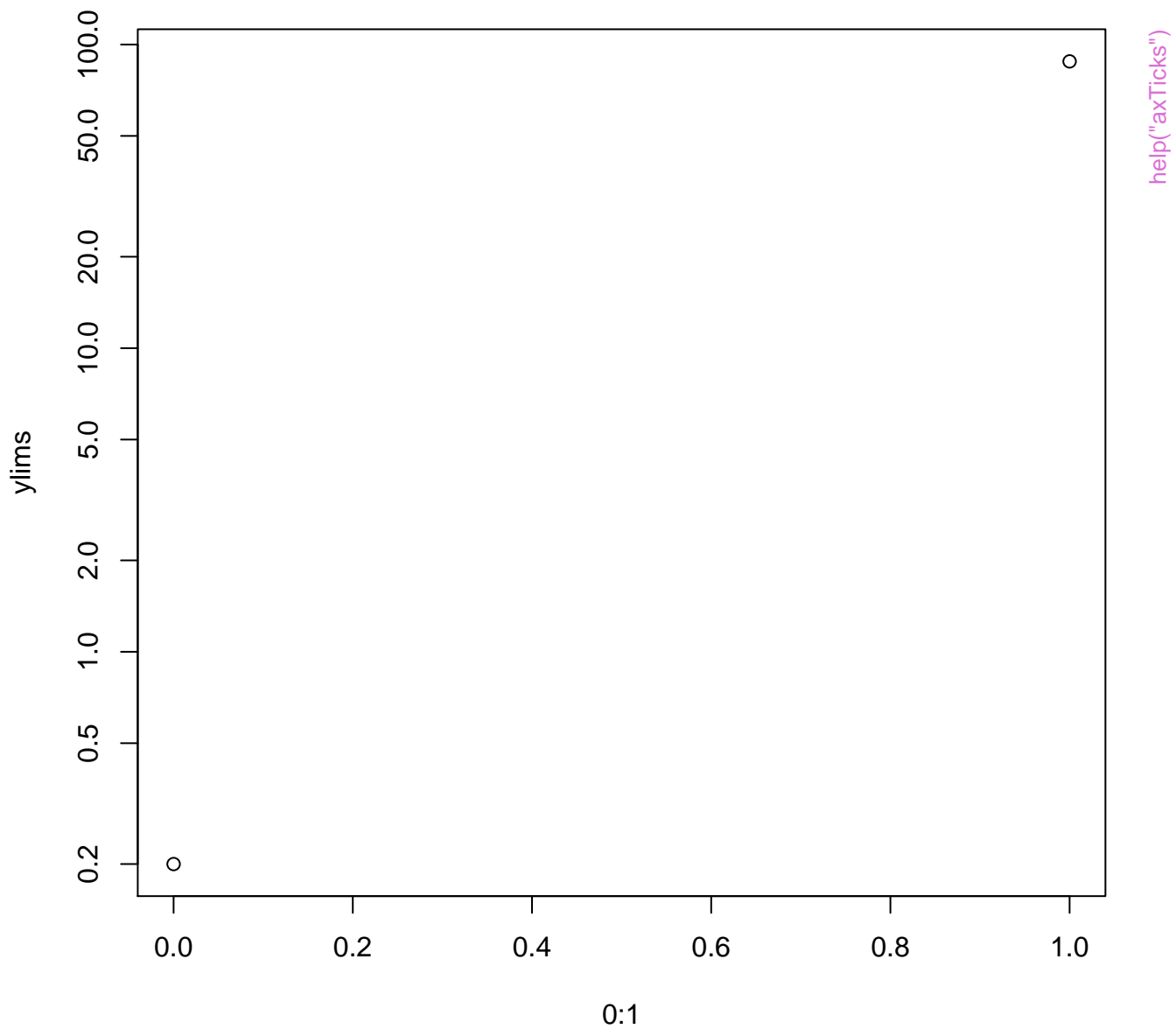
1:14

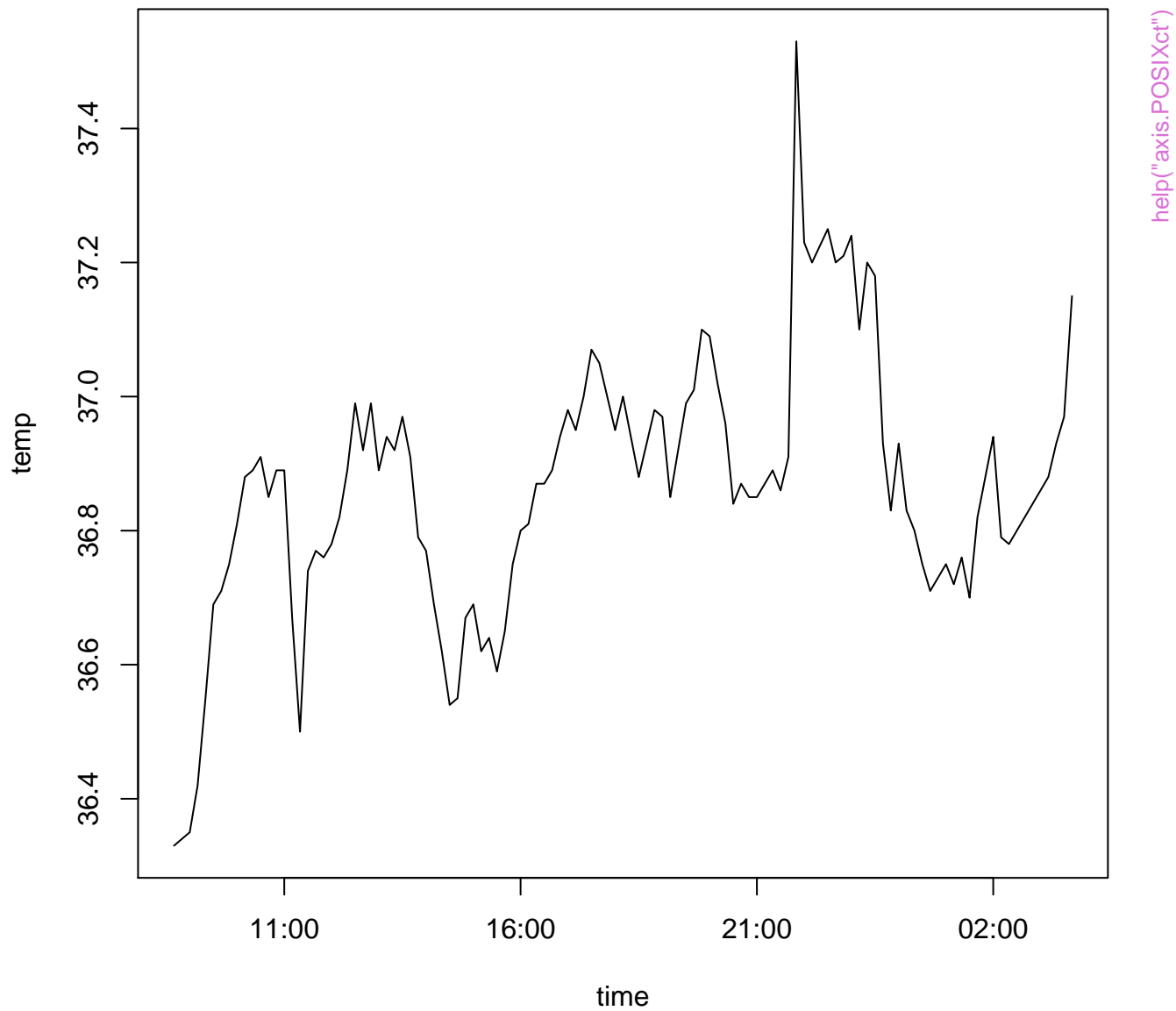


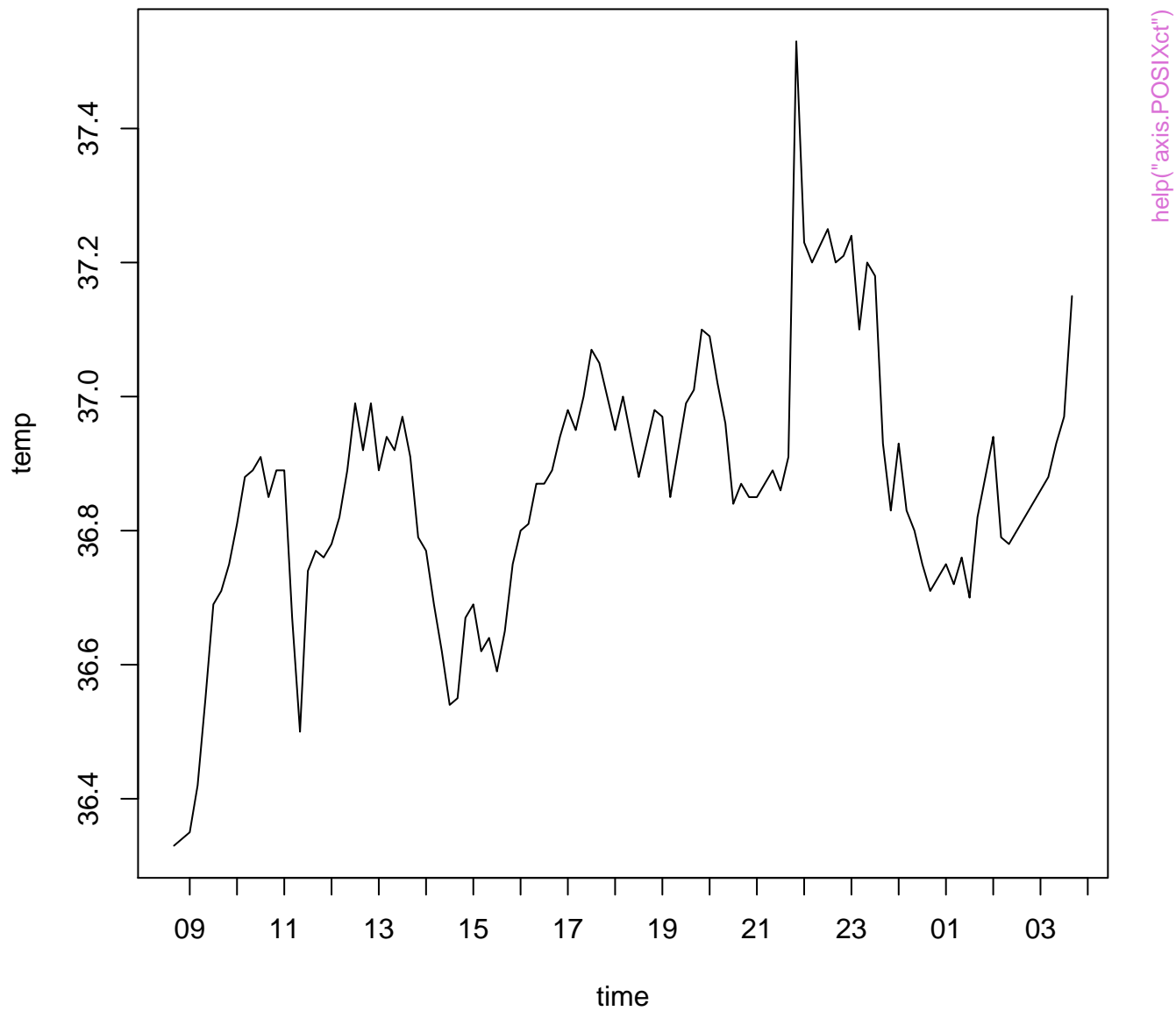
help("axTicks")

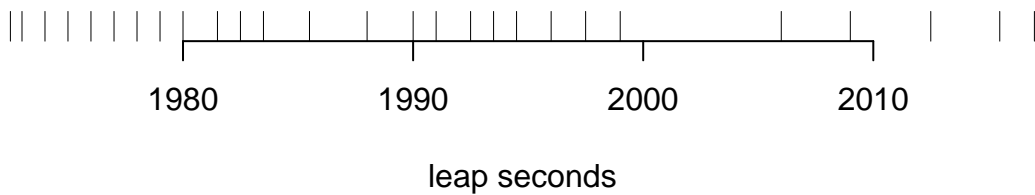


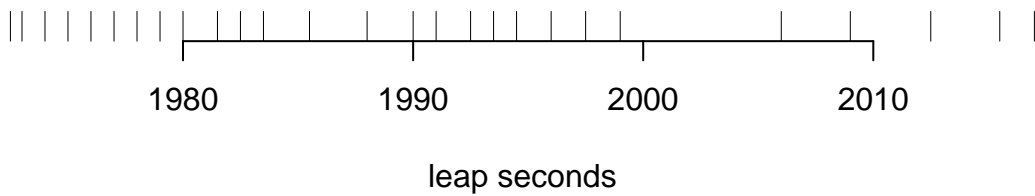


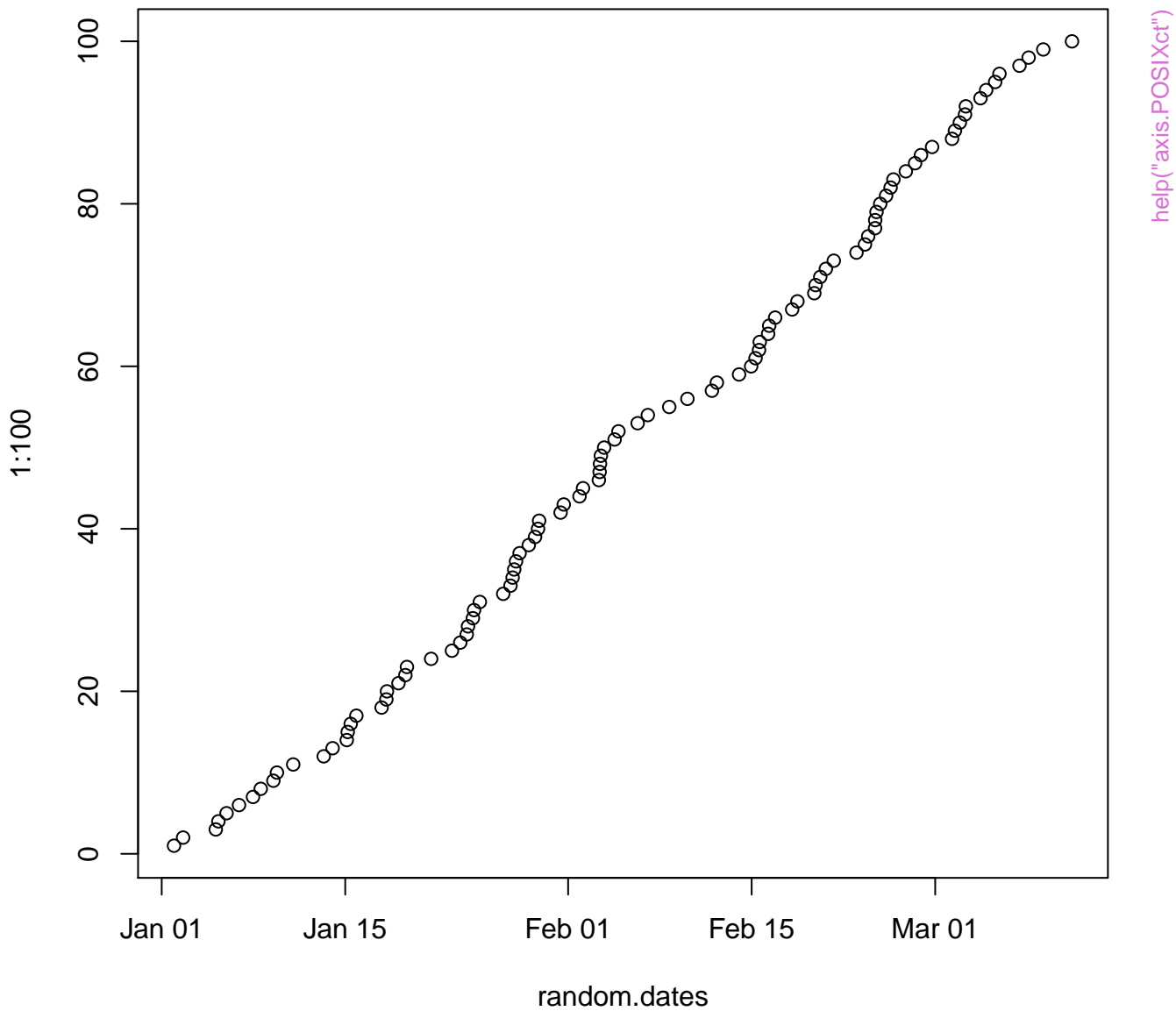


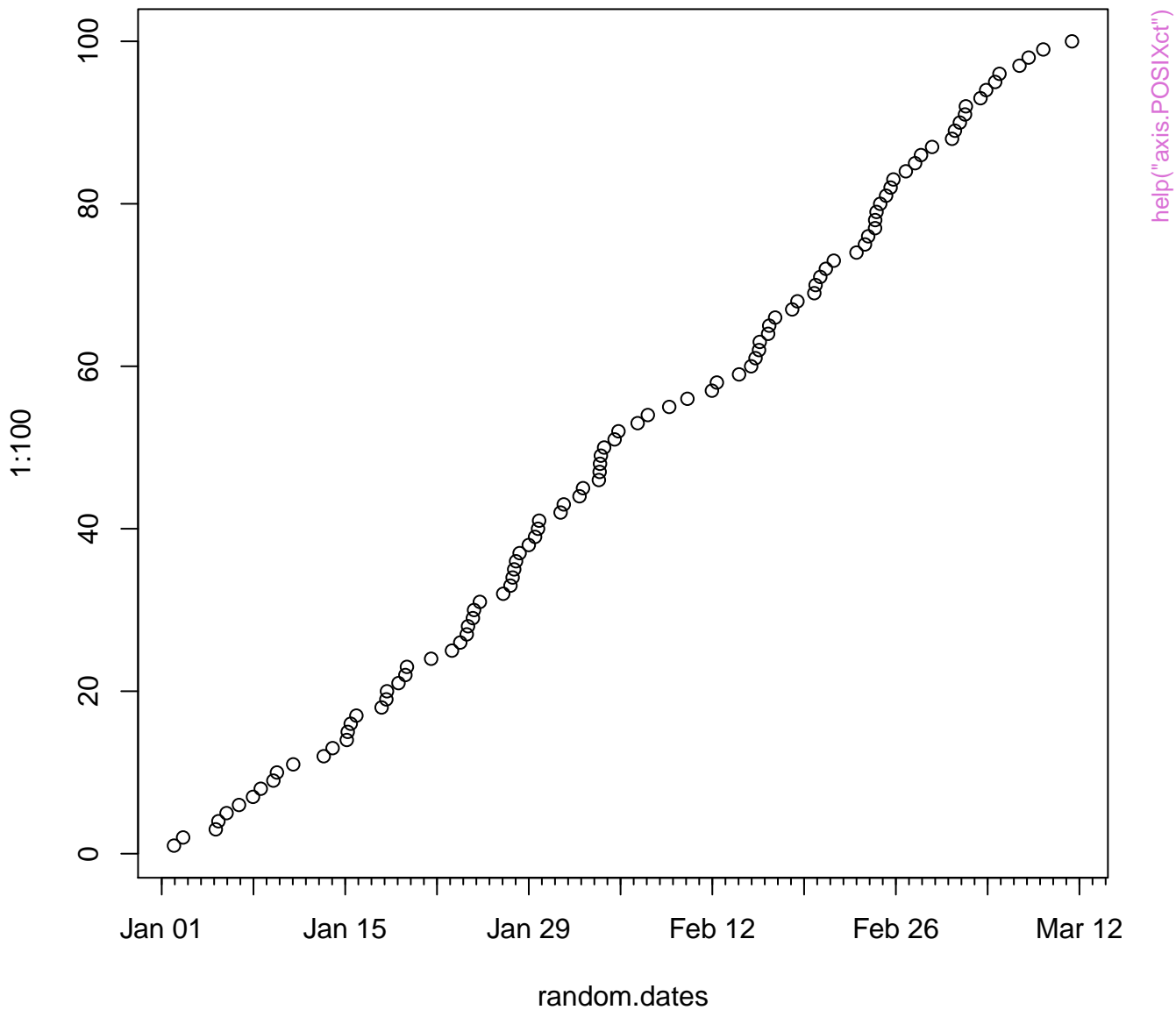




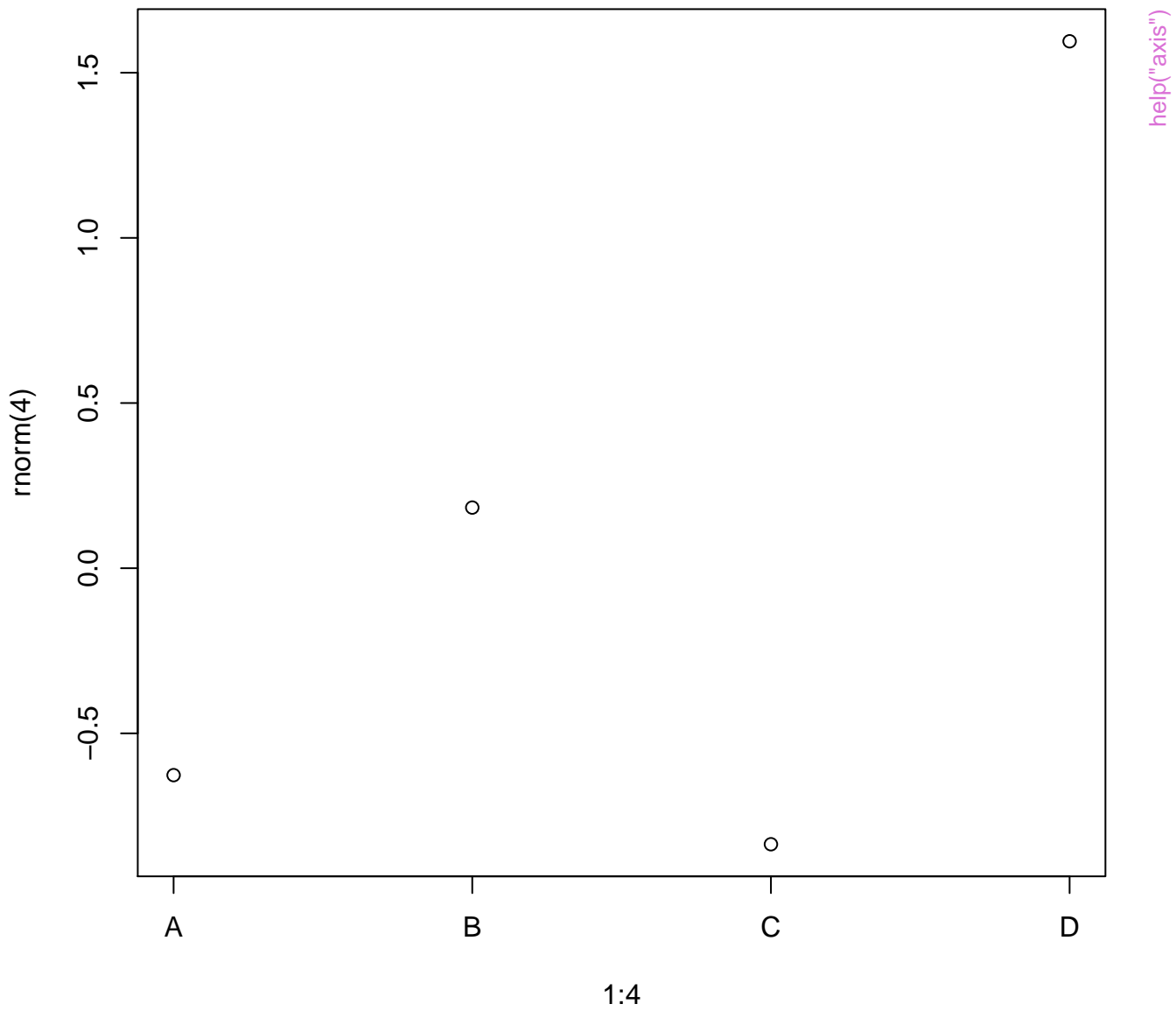


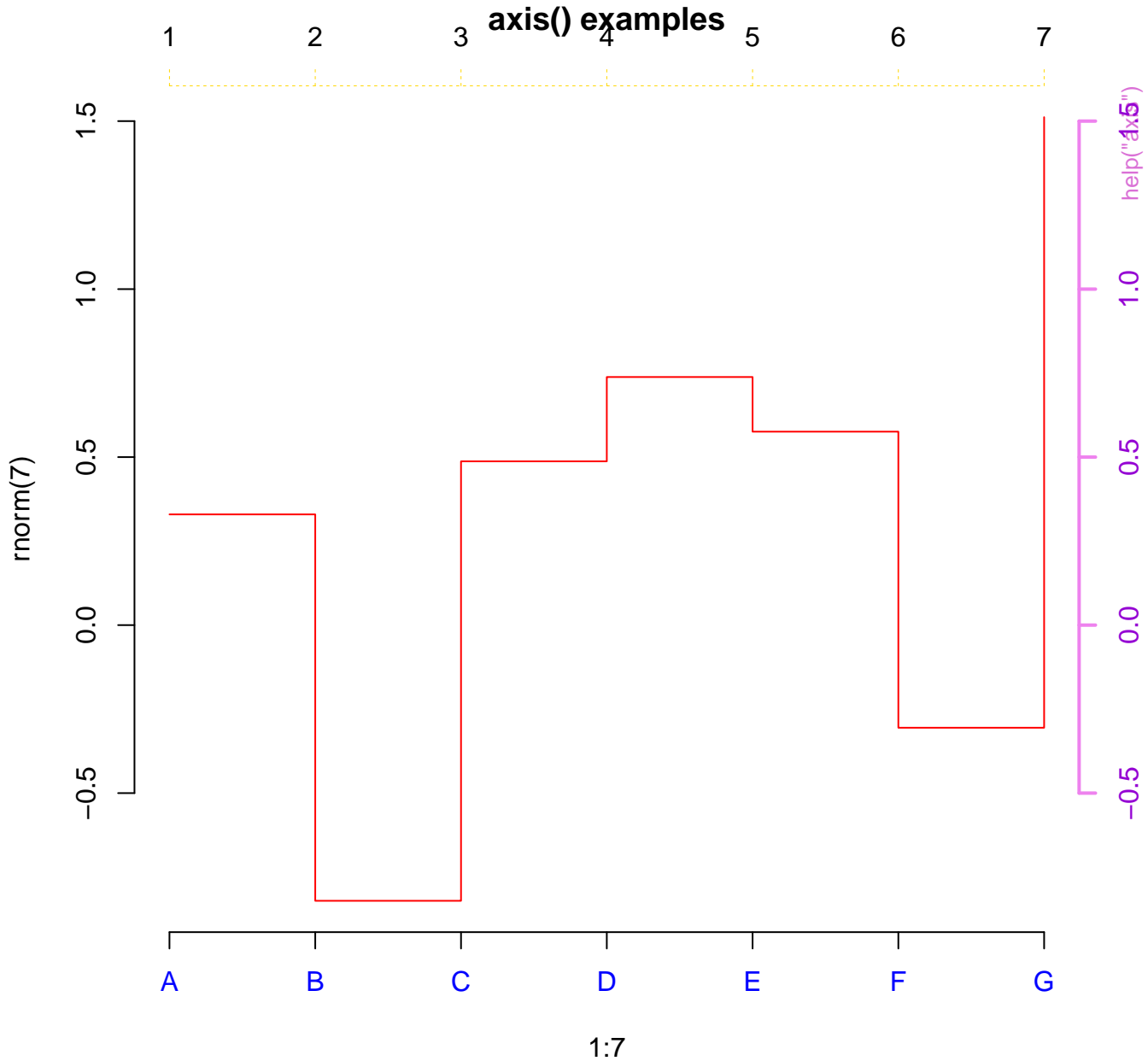


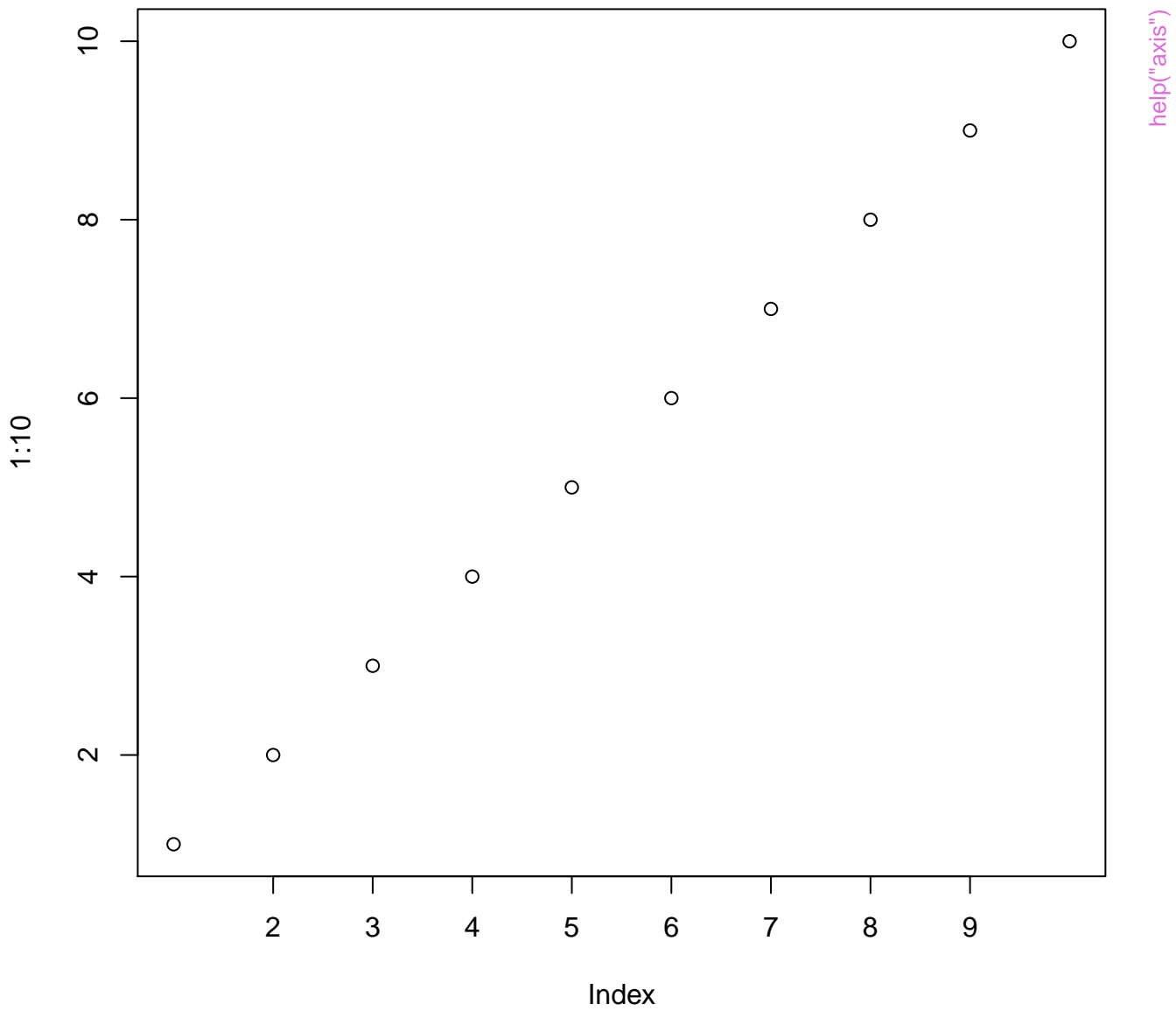


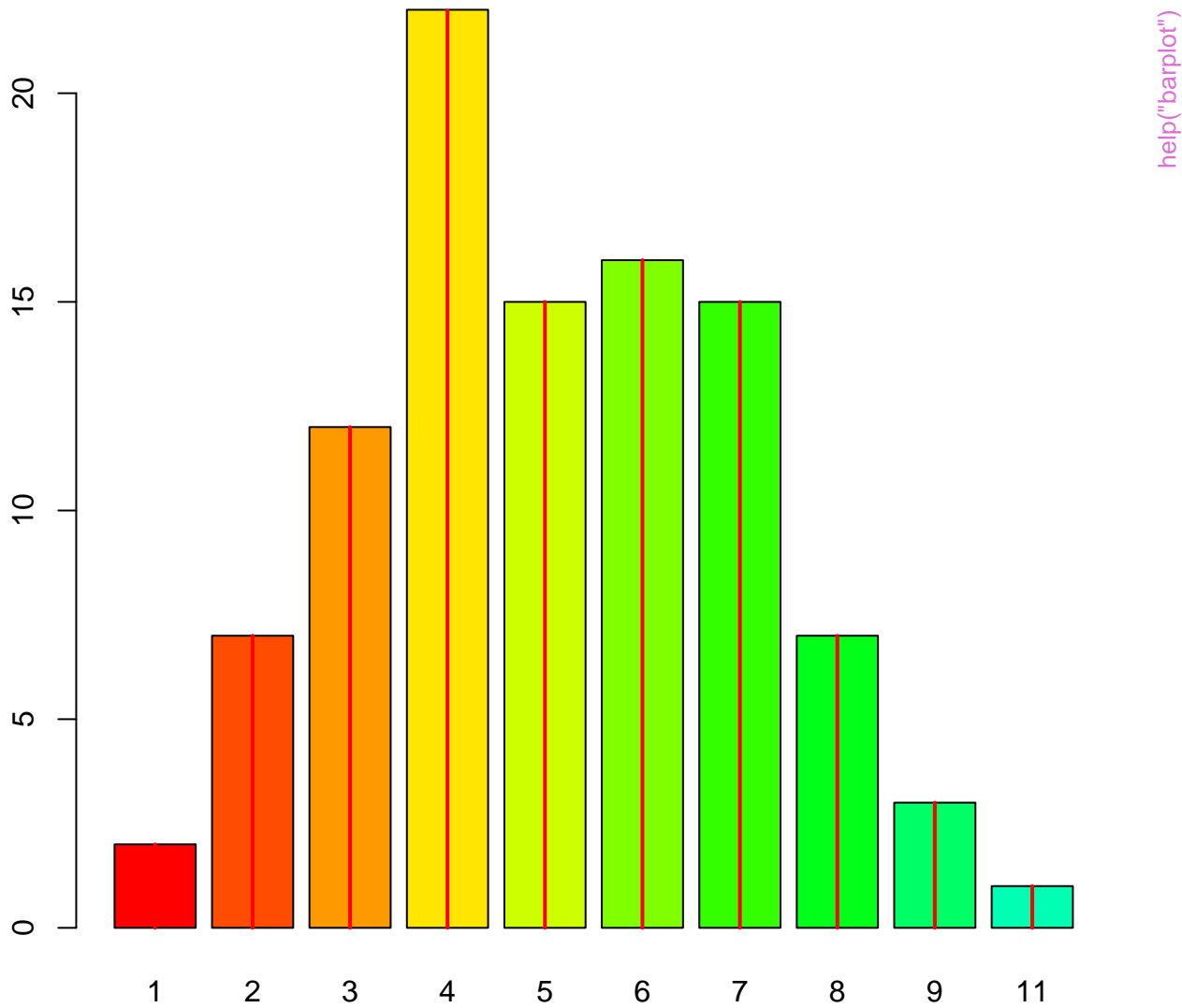


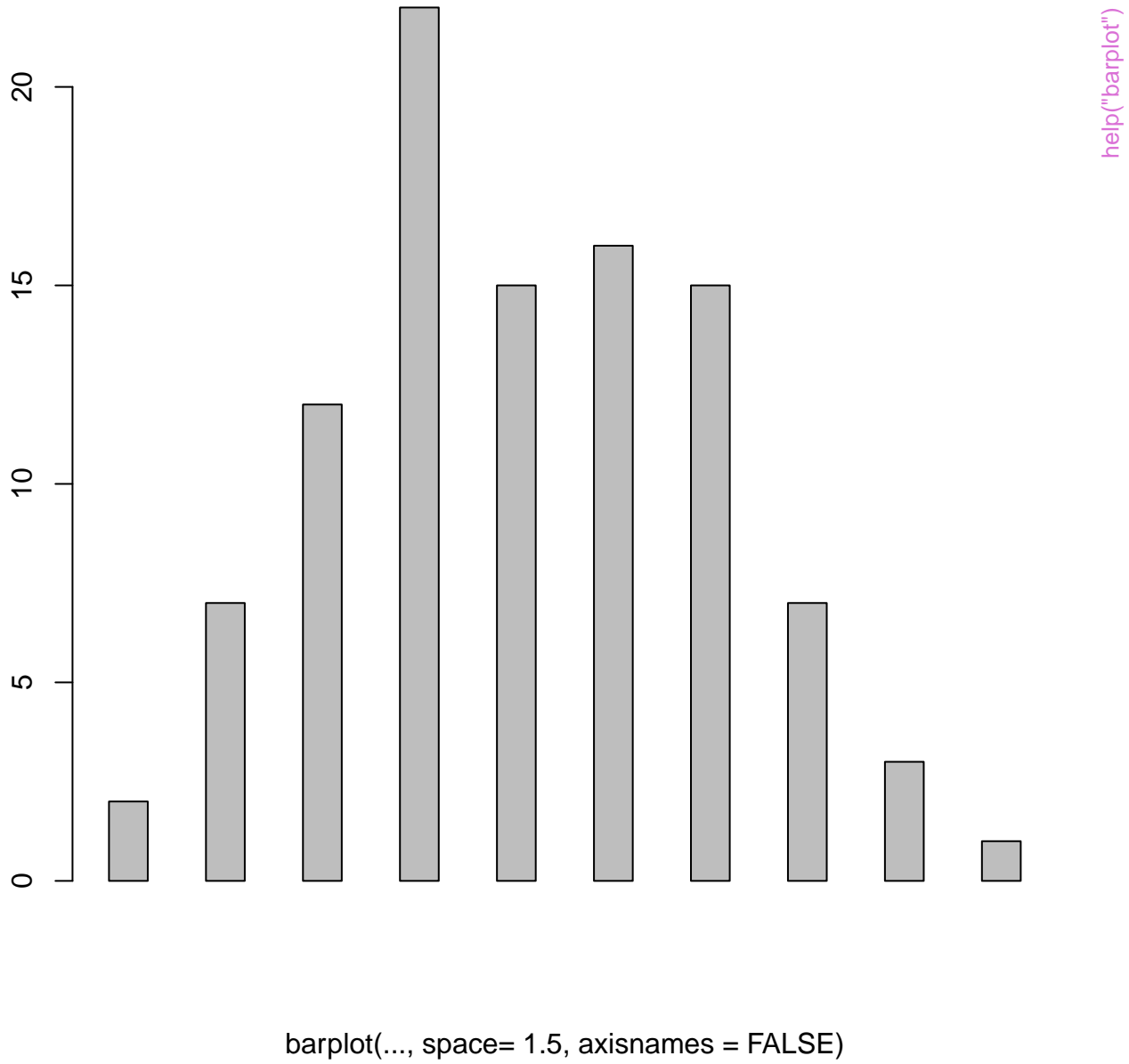


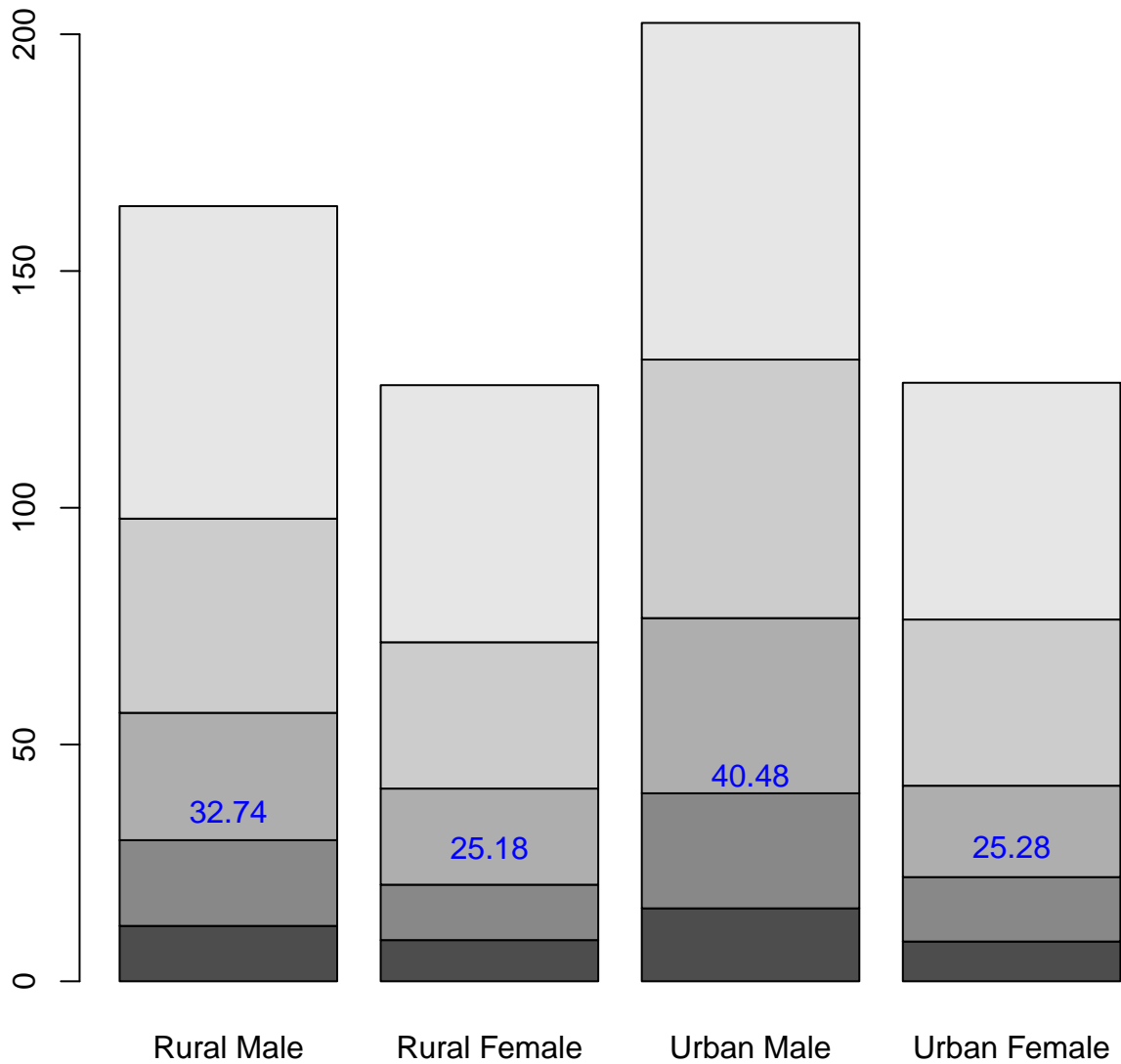






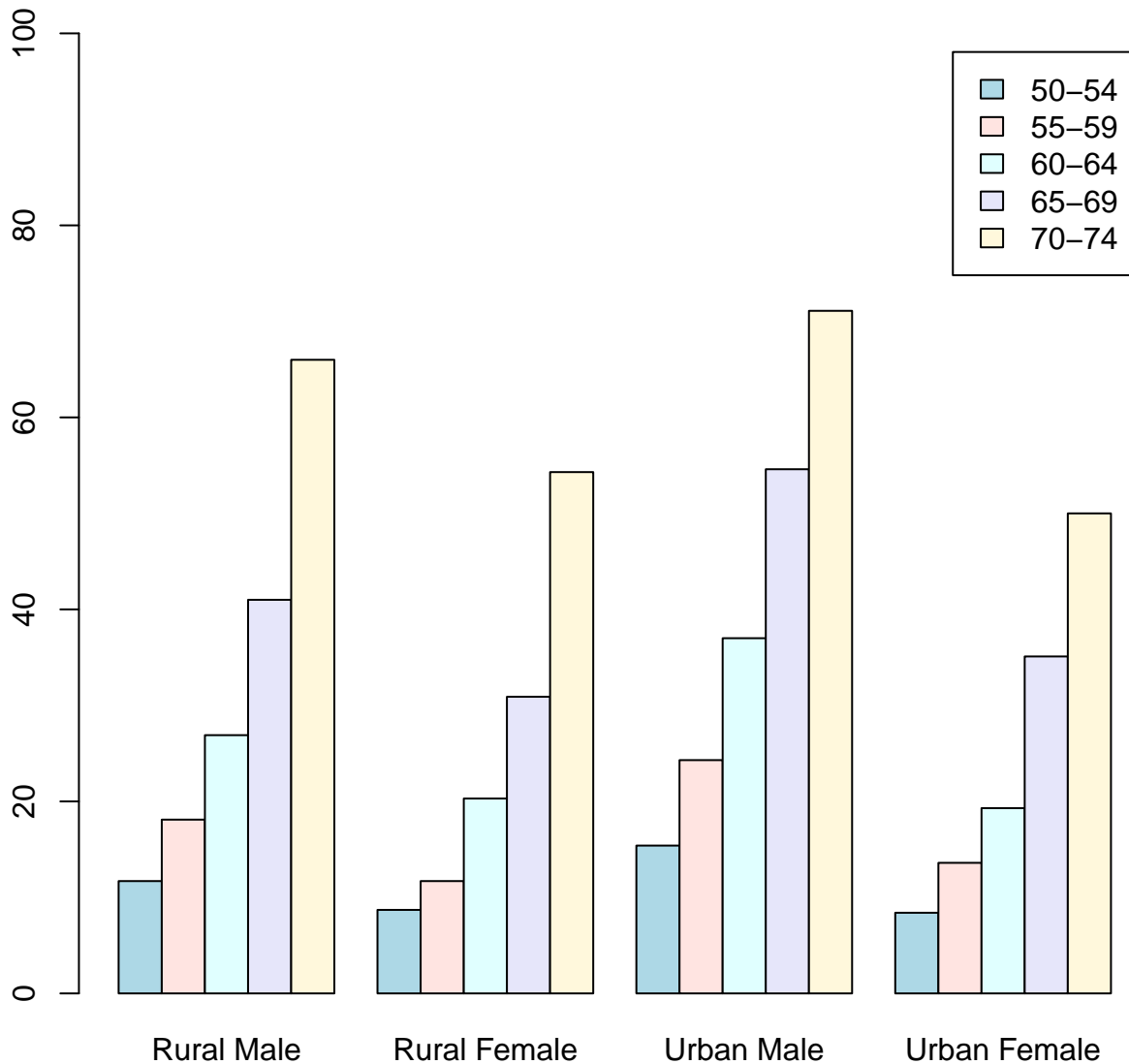






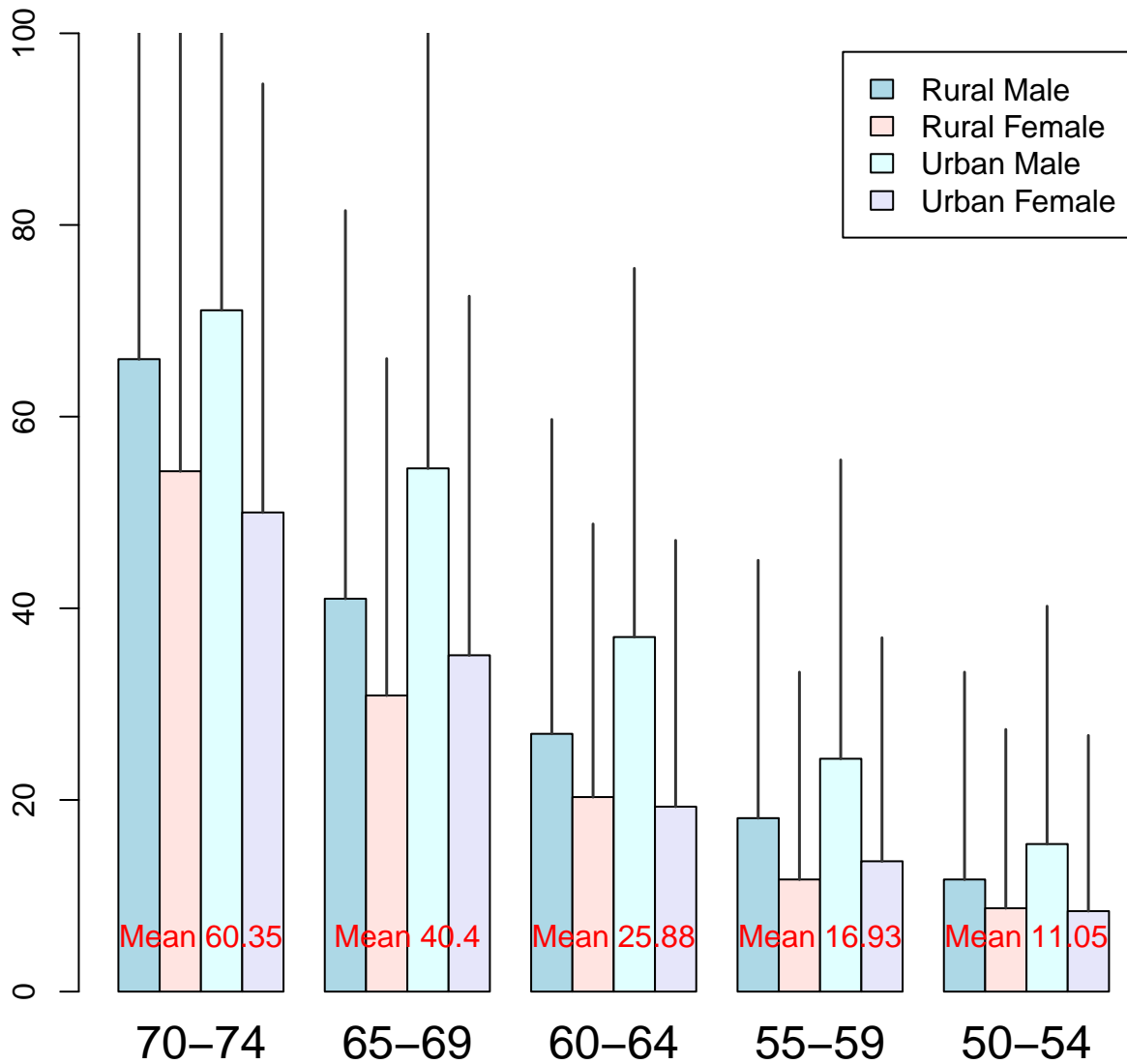
help("barplot")

## *Death Rates in Virginia*



help("barplot")

## Death Rates in Virginia

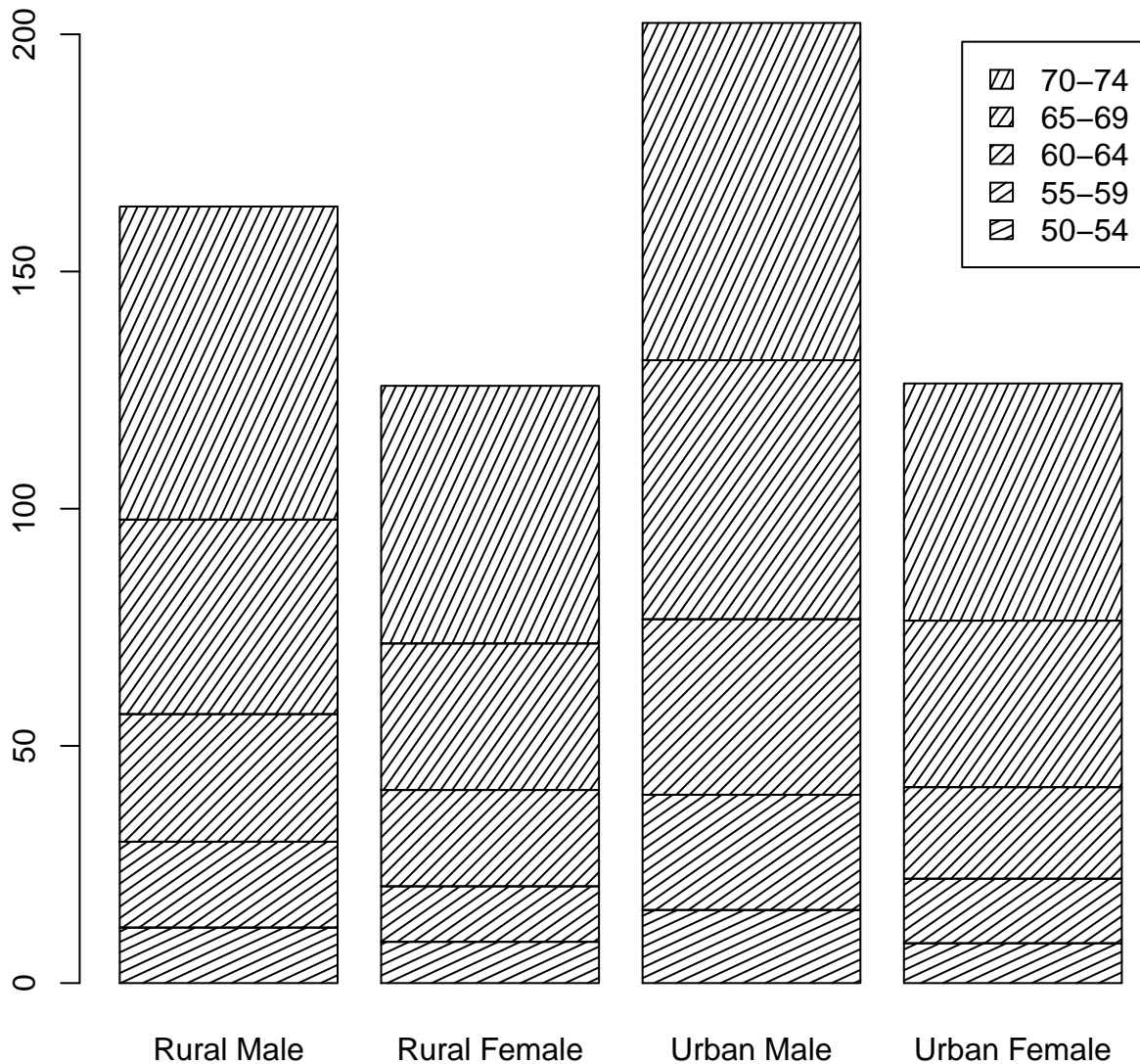


Faked upper 2\*sigma error bars

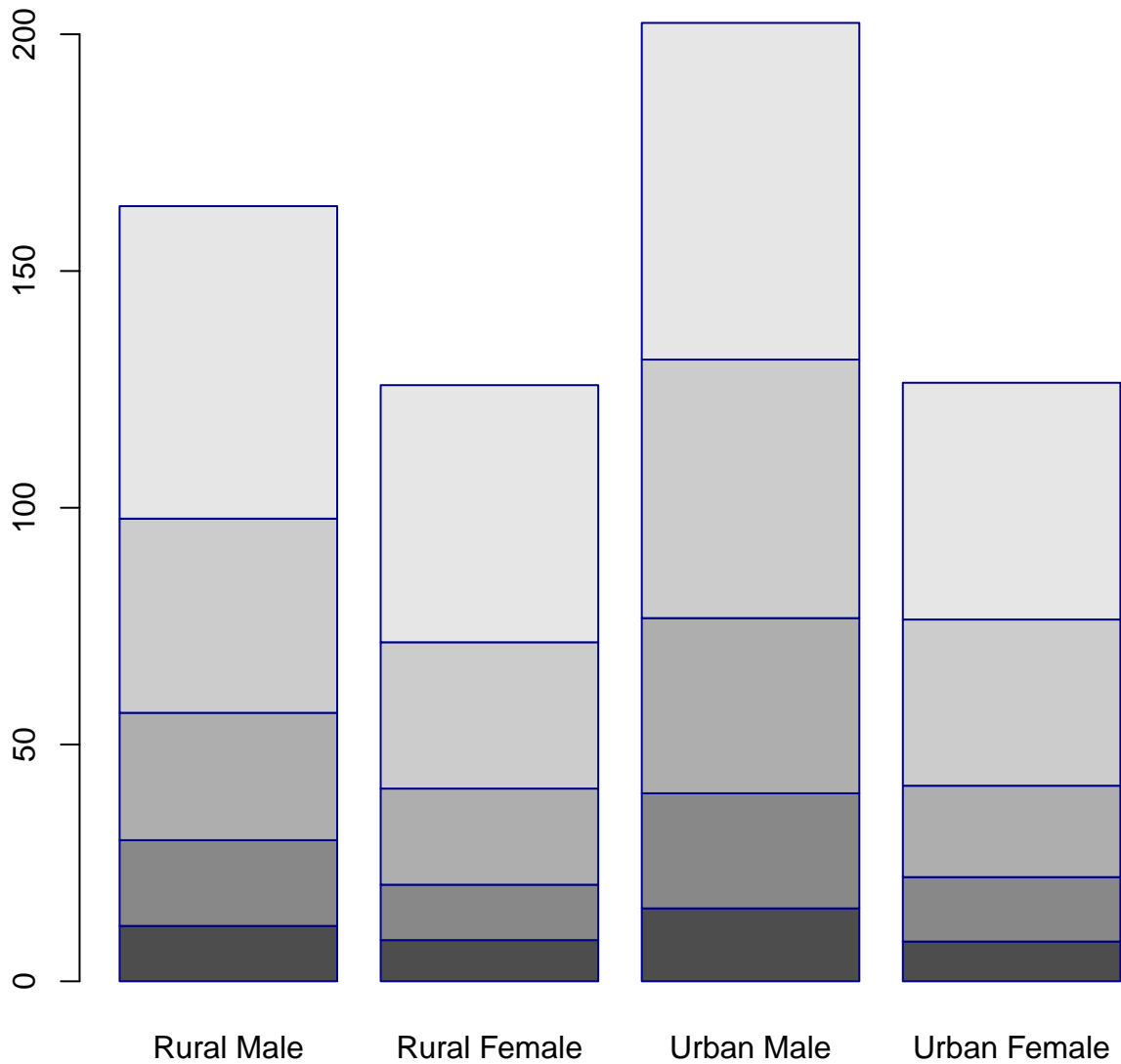
help("barplot")



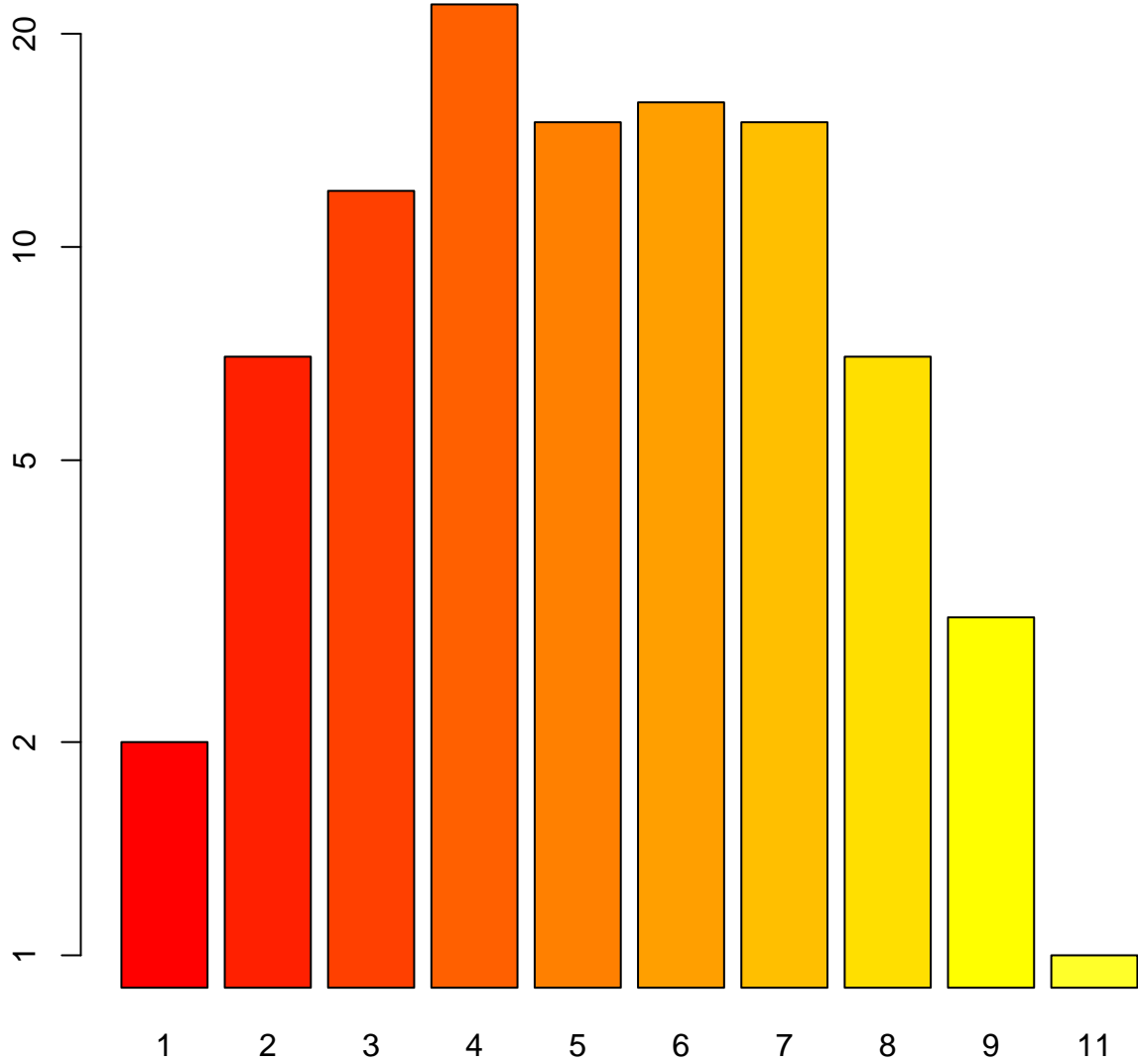
## *Death Rates in Virginia*



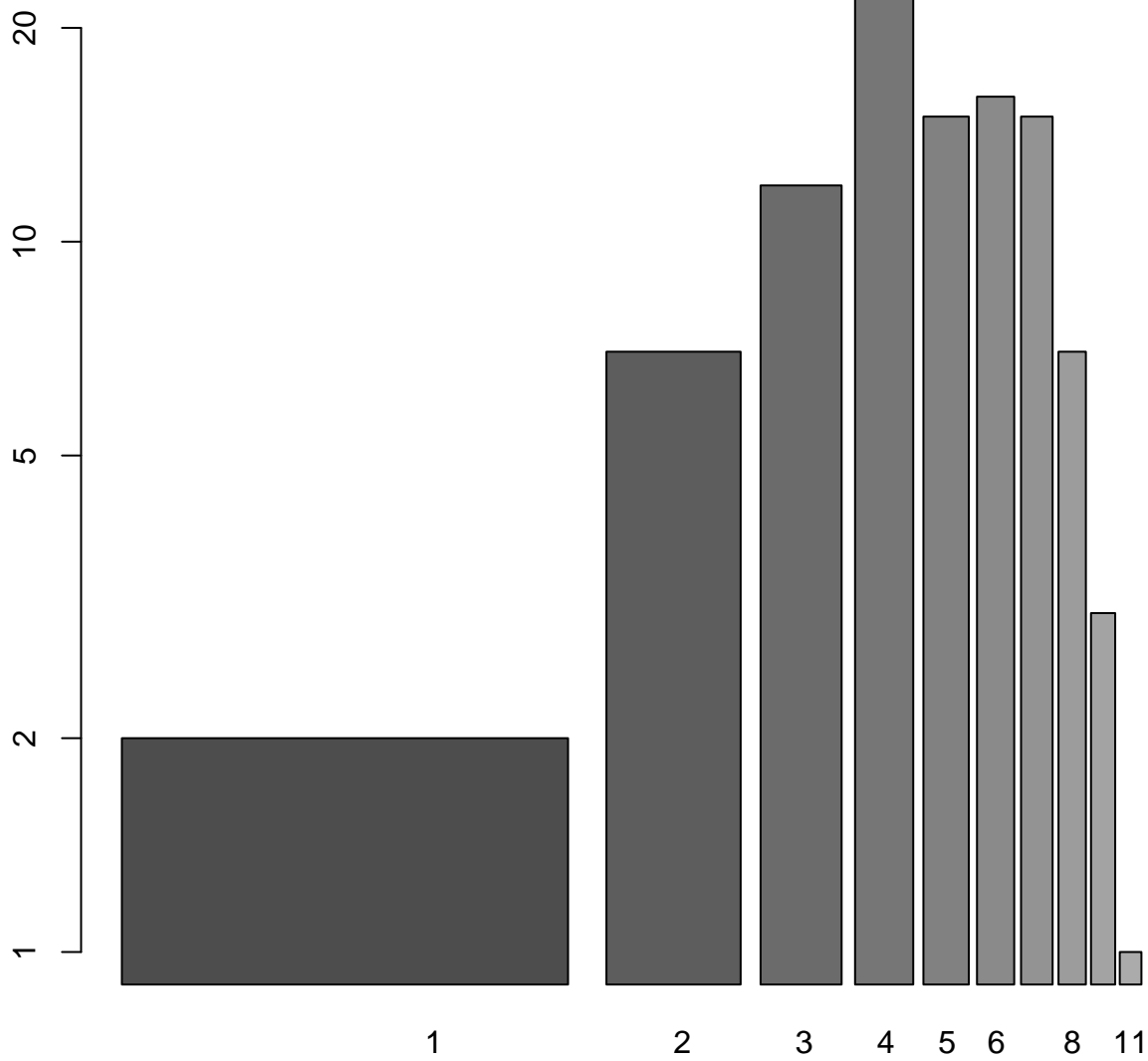
help("barplot")



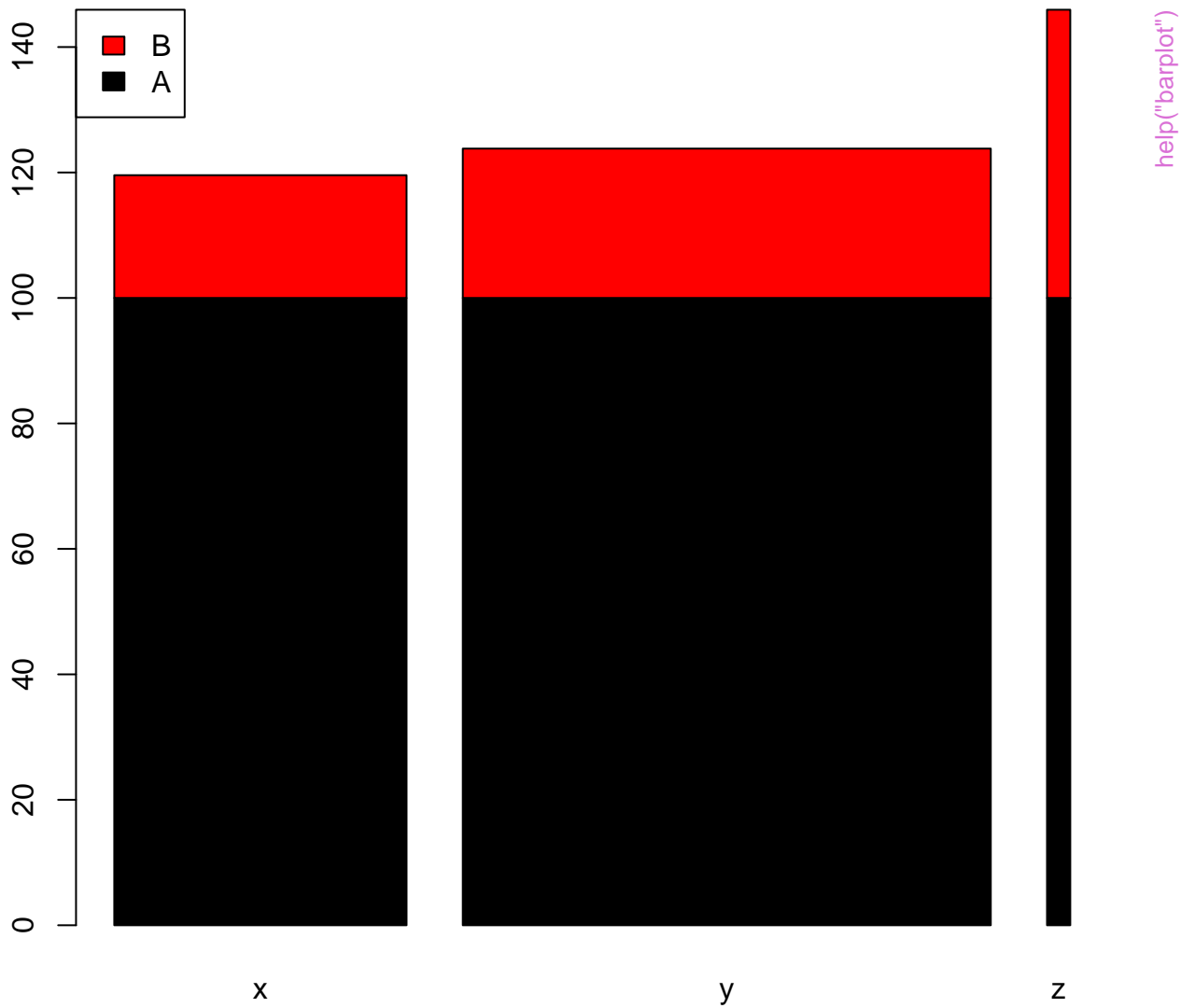
help("barplot")



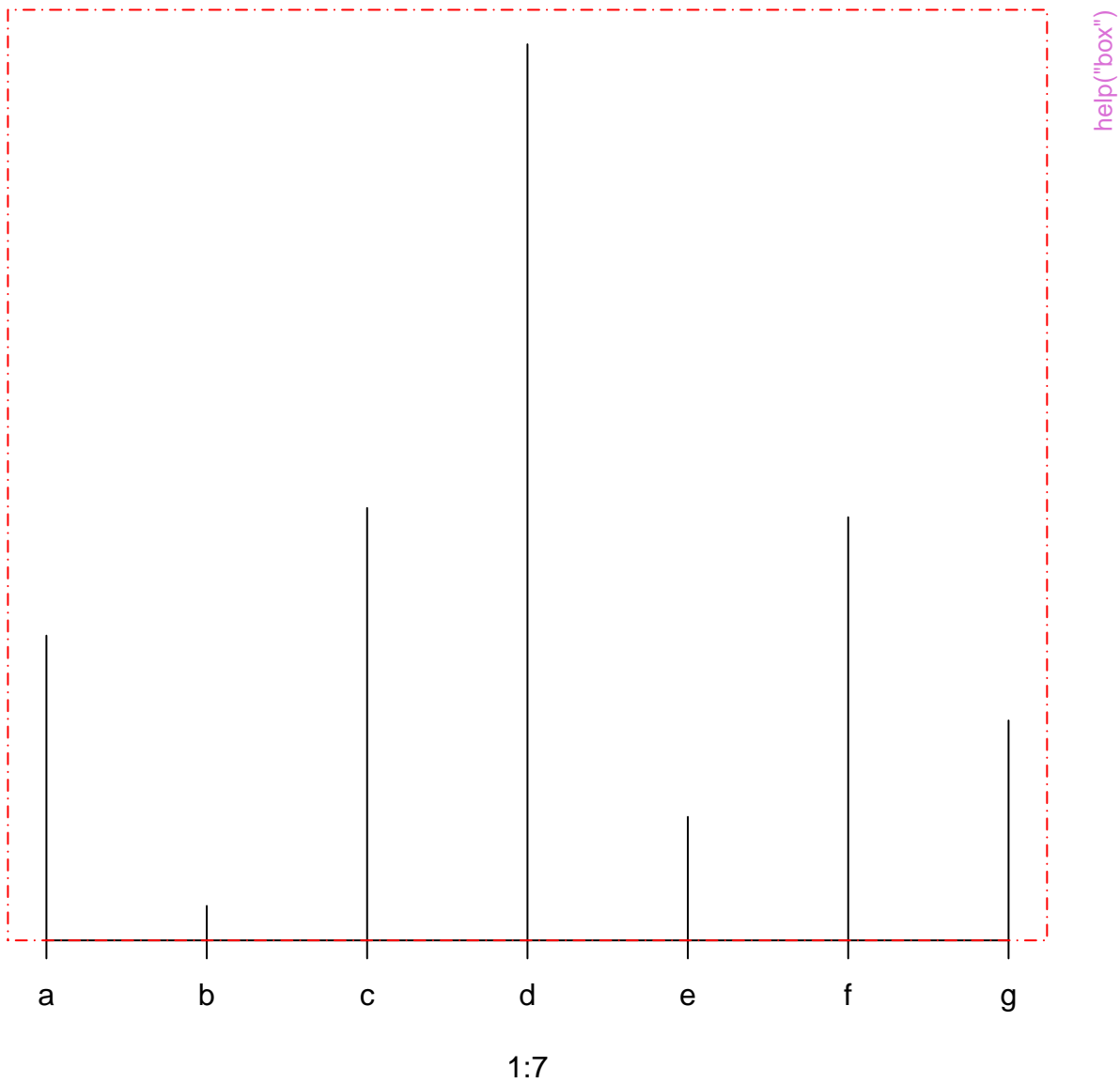
help("barplot")



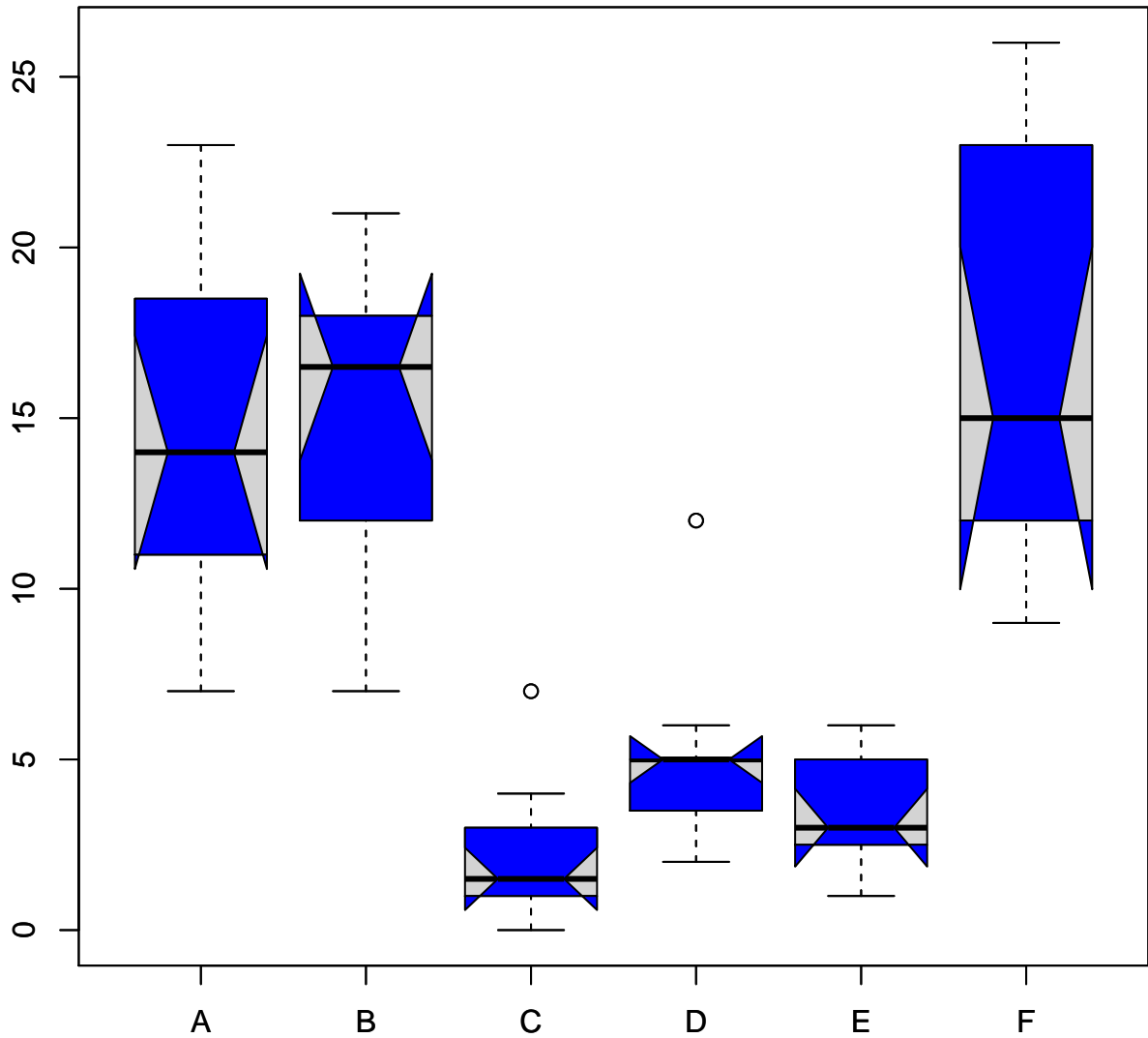
`help("barplot")`



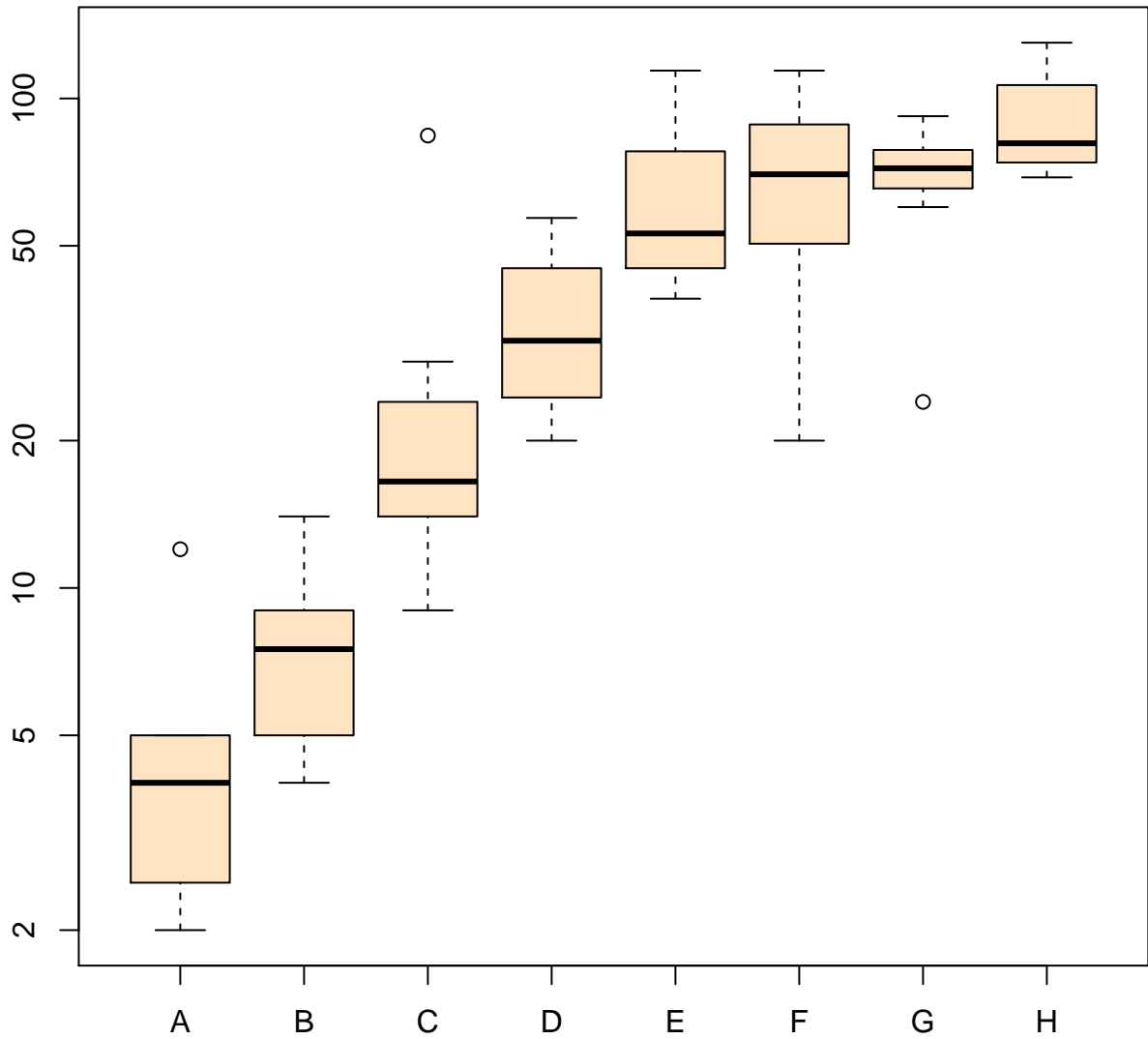
abs(stats::rnorm(7))



help("box")



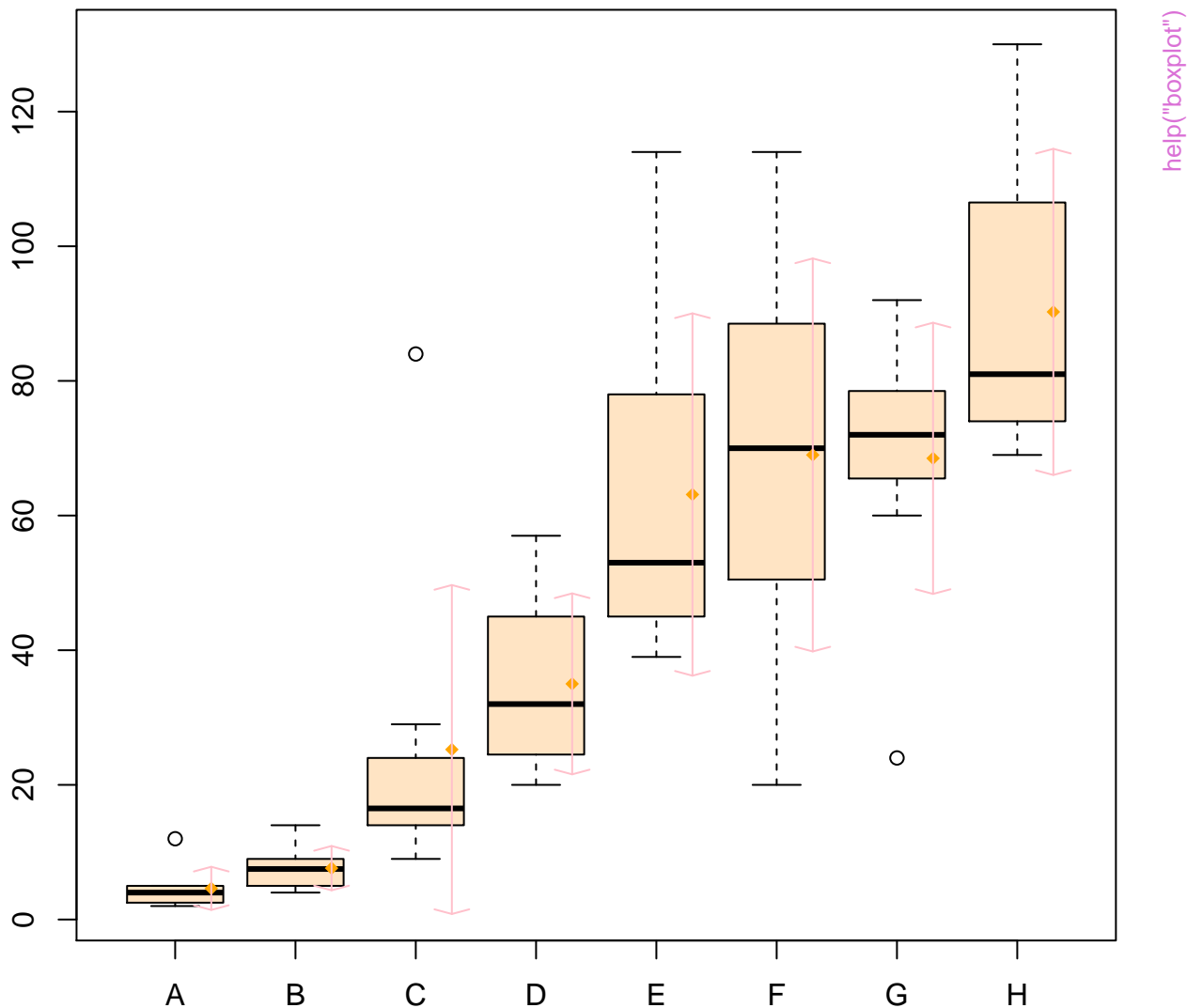
help("boxplot")

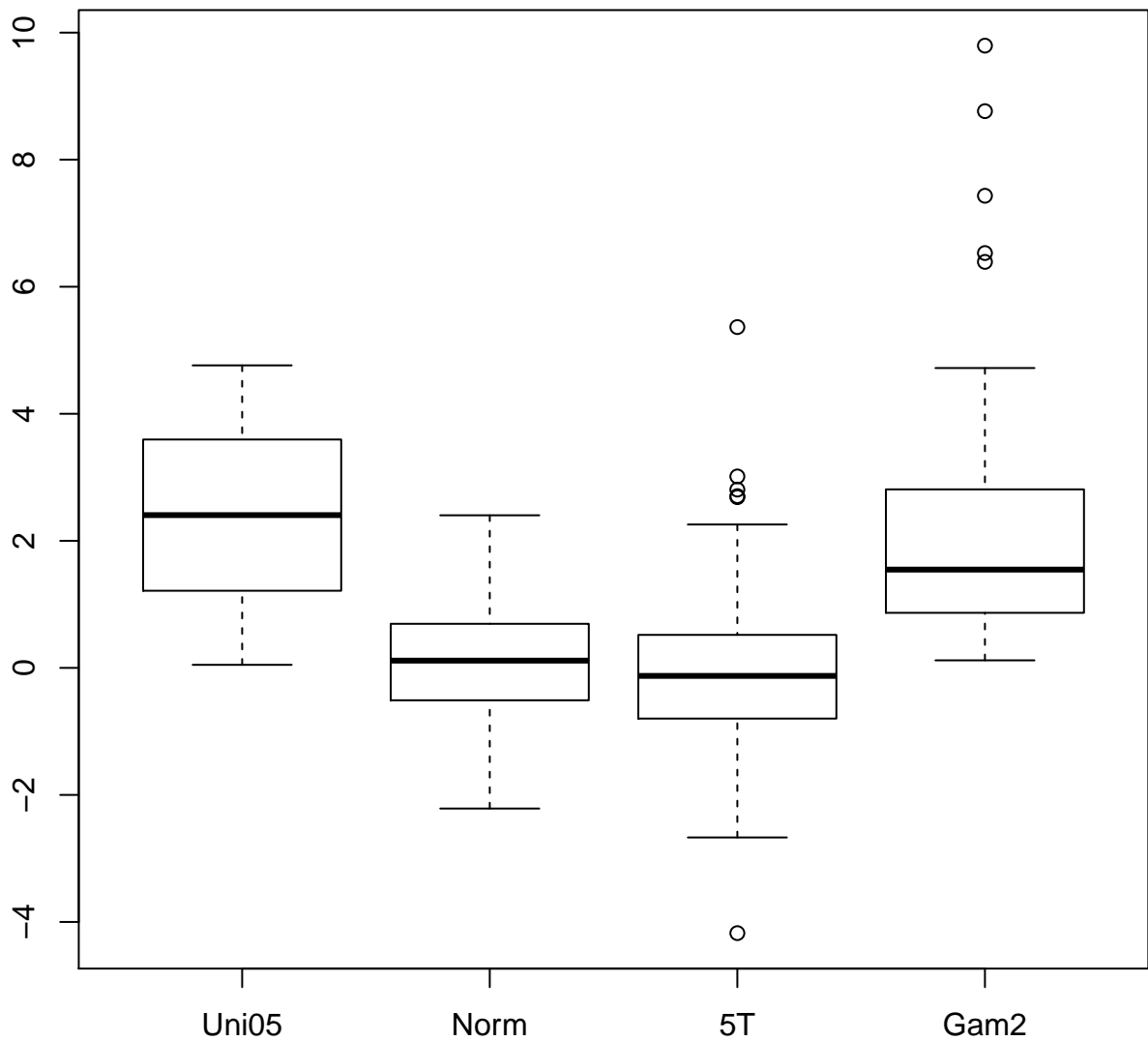


[help\("boxplot"\)](#)



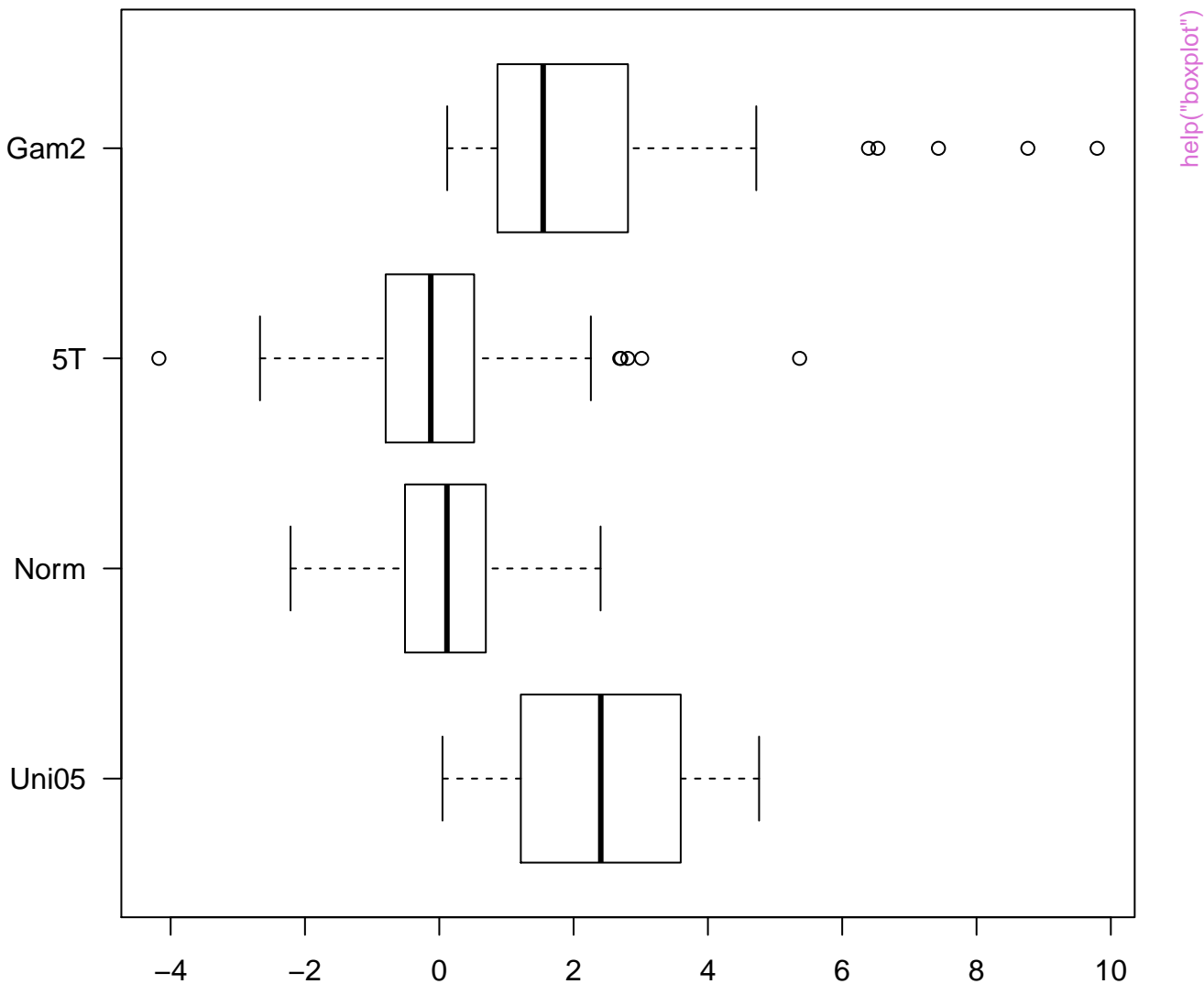
## Comparing boxplot(s) and non-robust mean $\pm$ SD



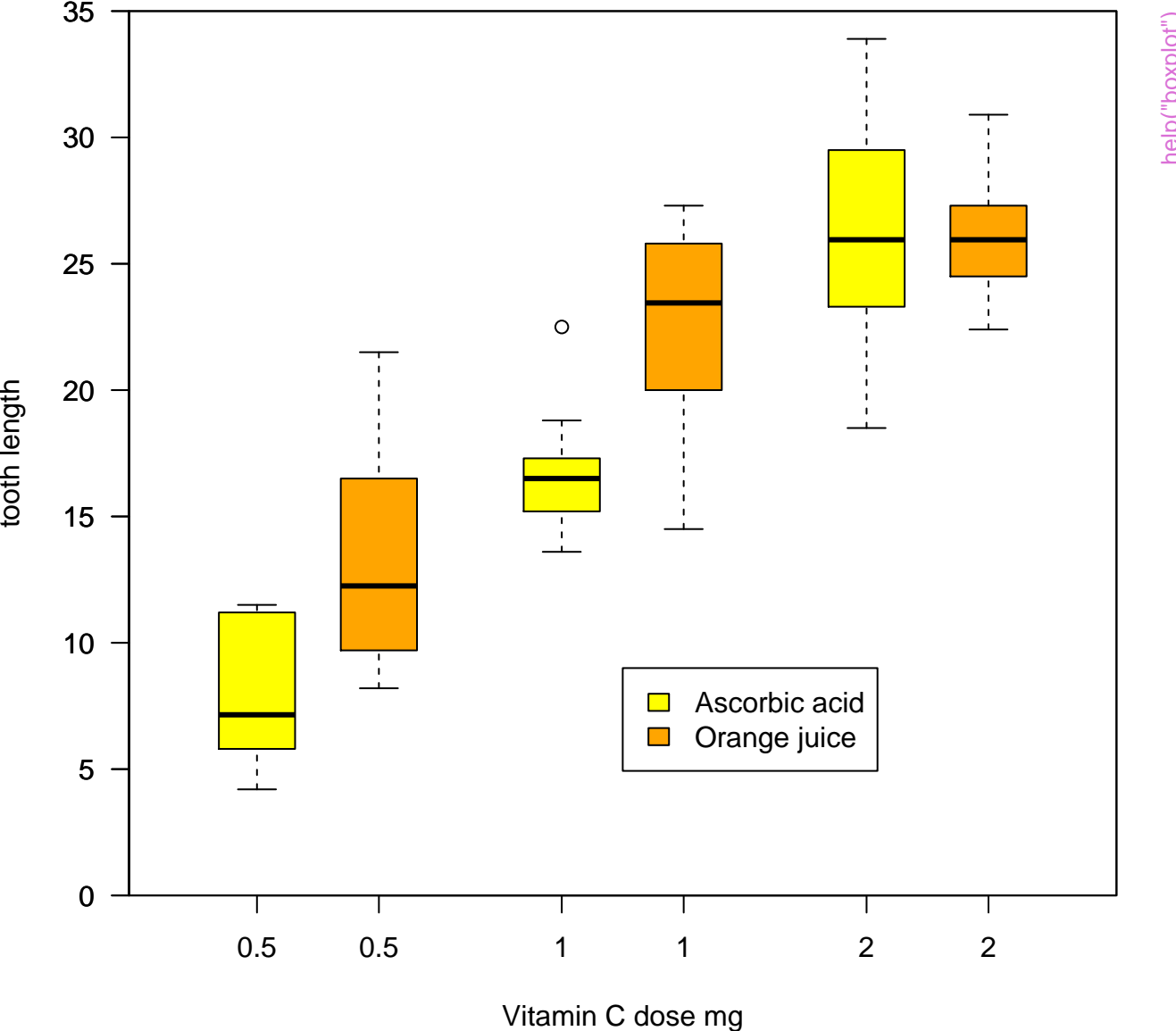


help("boxplot")

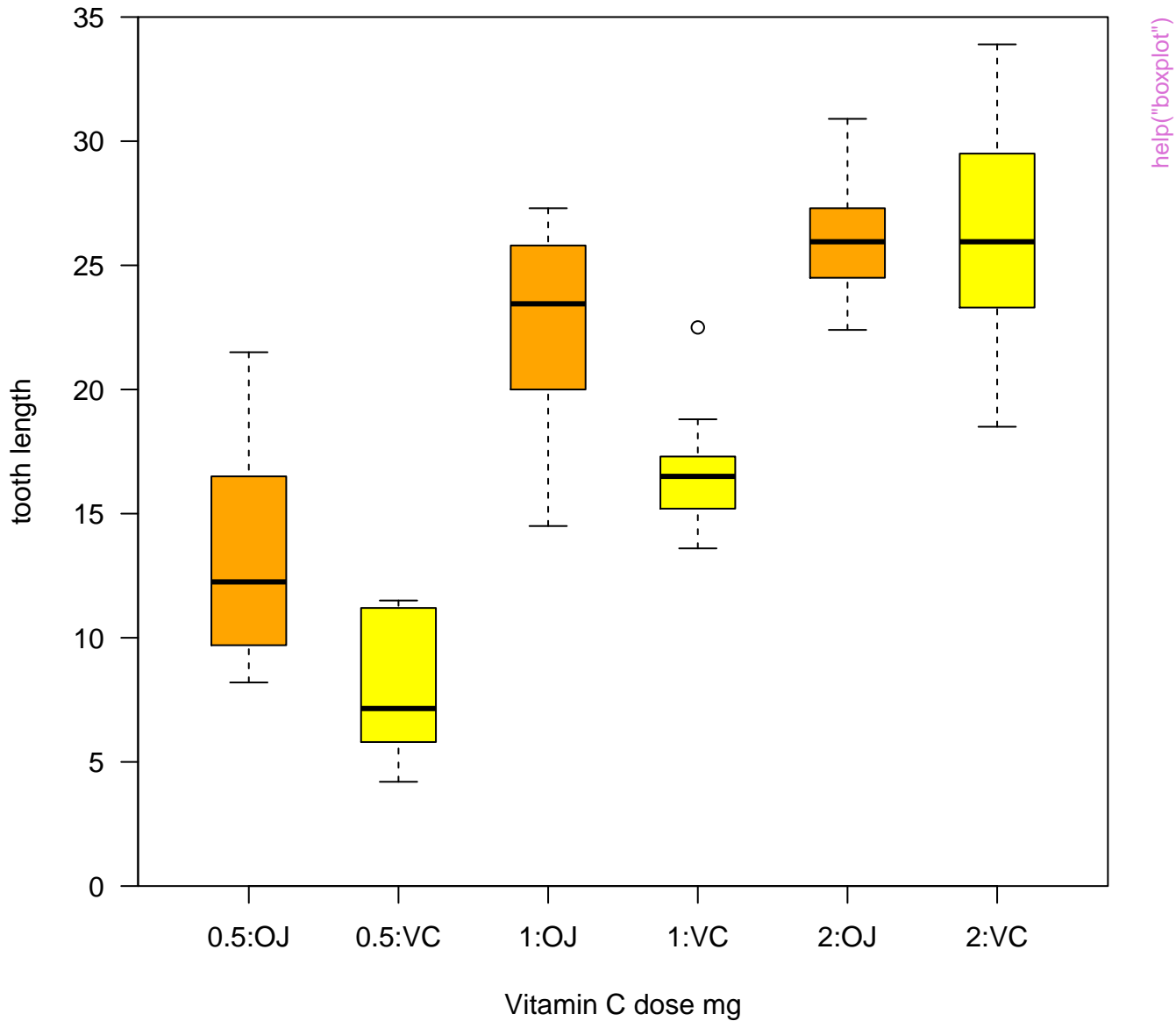
**boxplot(\*, horizontal = TRUE)**



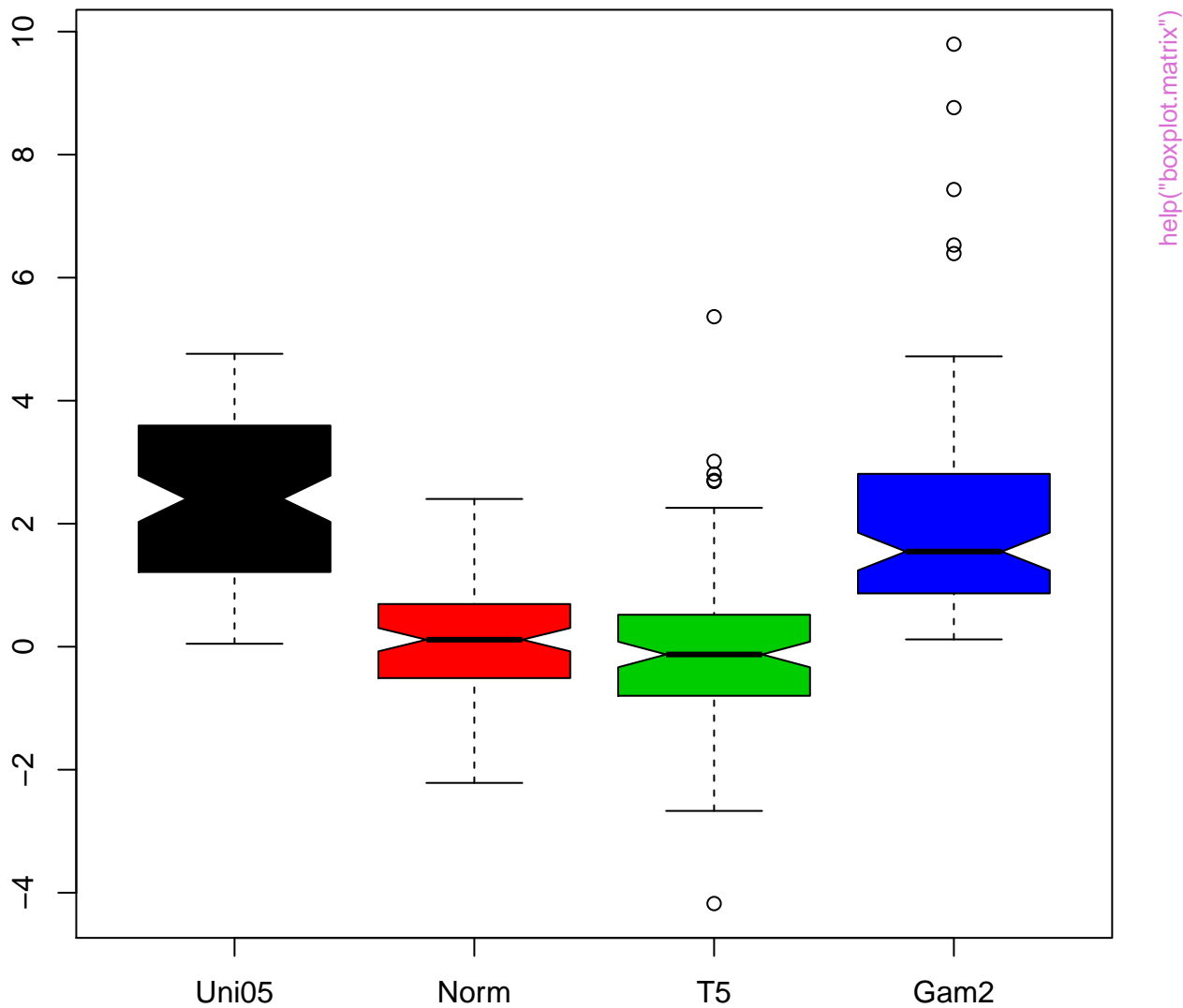
Guinea Pigs' Tooth Growth



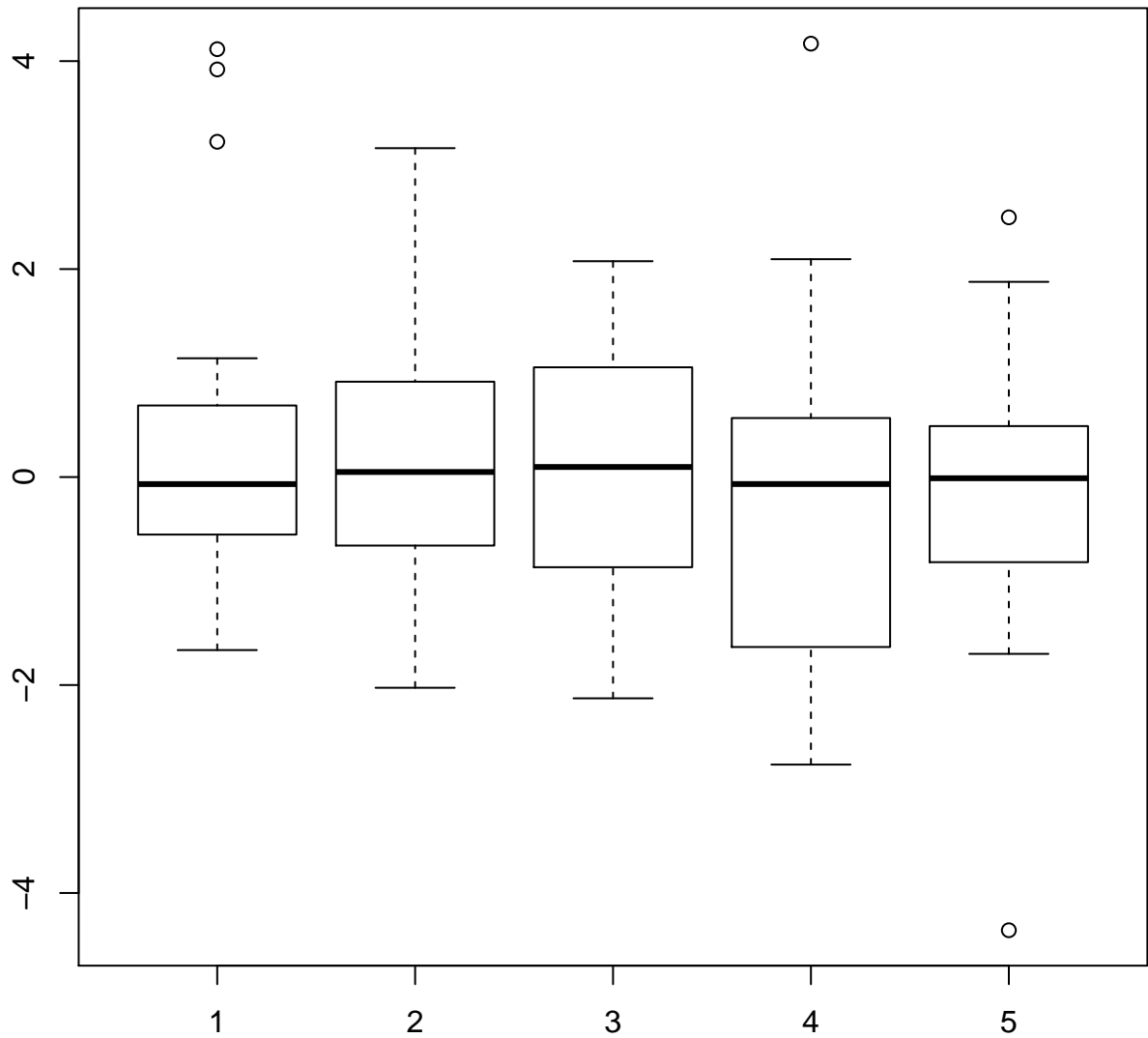
# Guinea Pigs' Tooth Growth



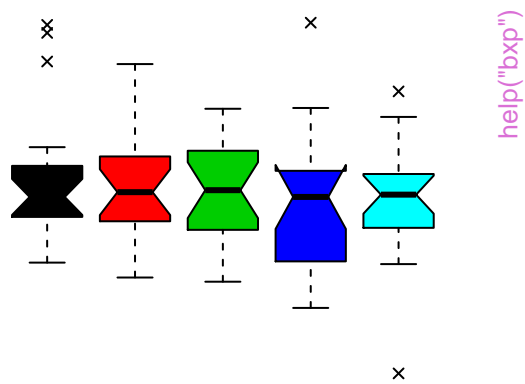
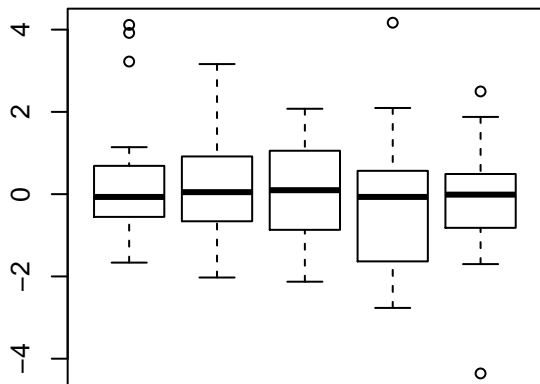
**boxplot.matrix(...., main = ...)**



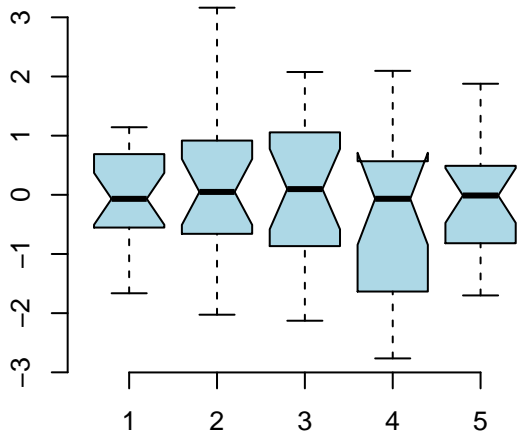
[help\("boxplot.matrix"\)](#)



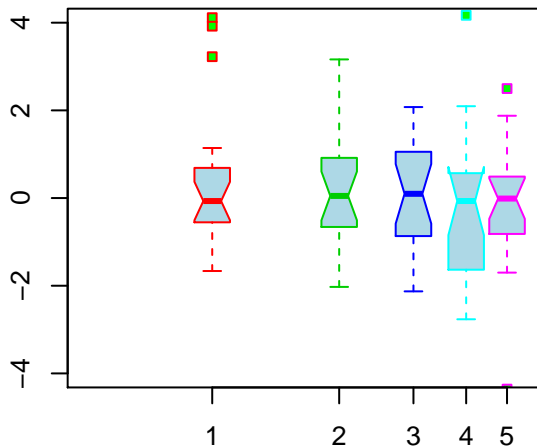
help("bxp")



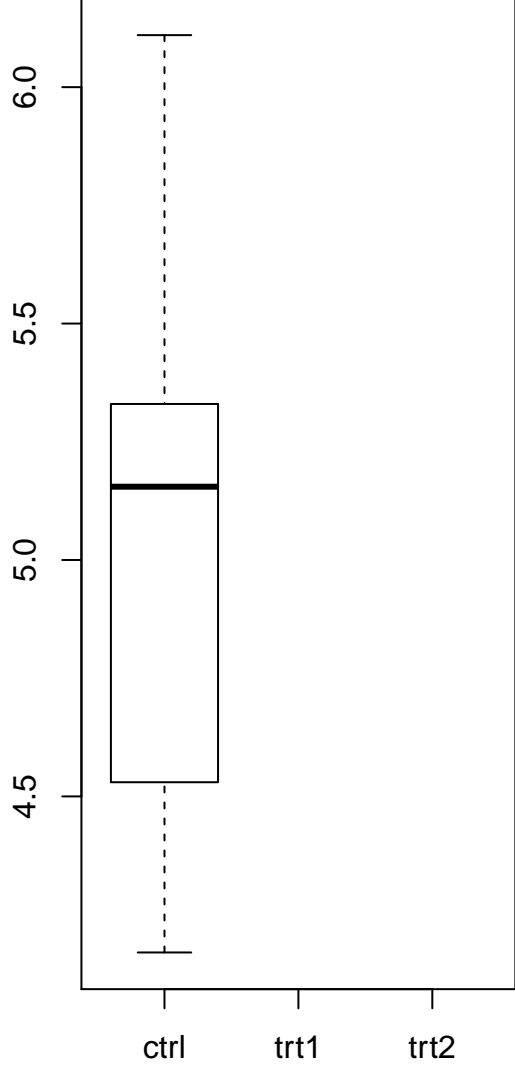
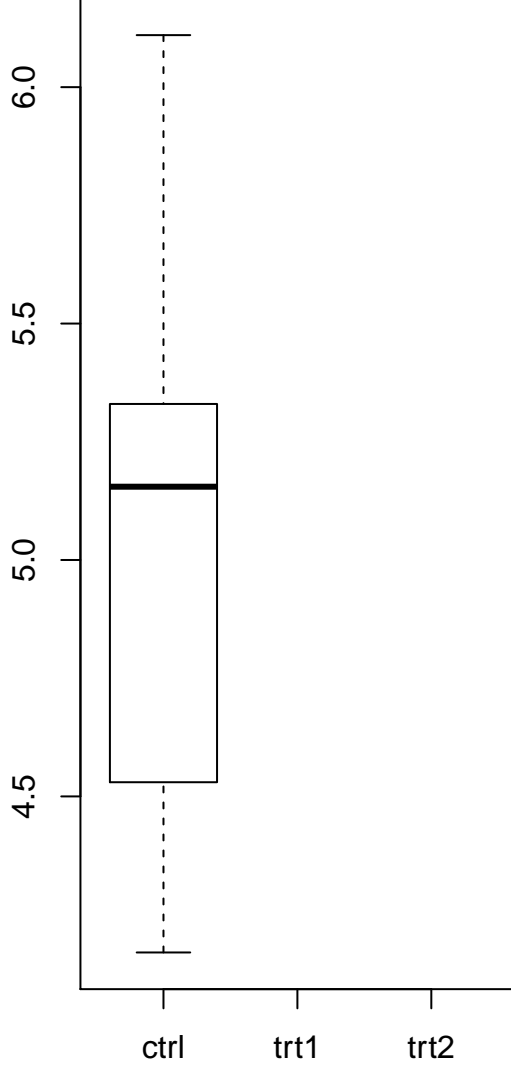
**bxp(\*, frame= FALSE, outl= FALSE)**



**... log = 'x', ylim = \***

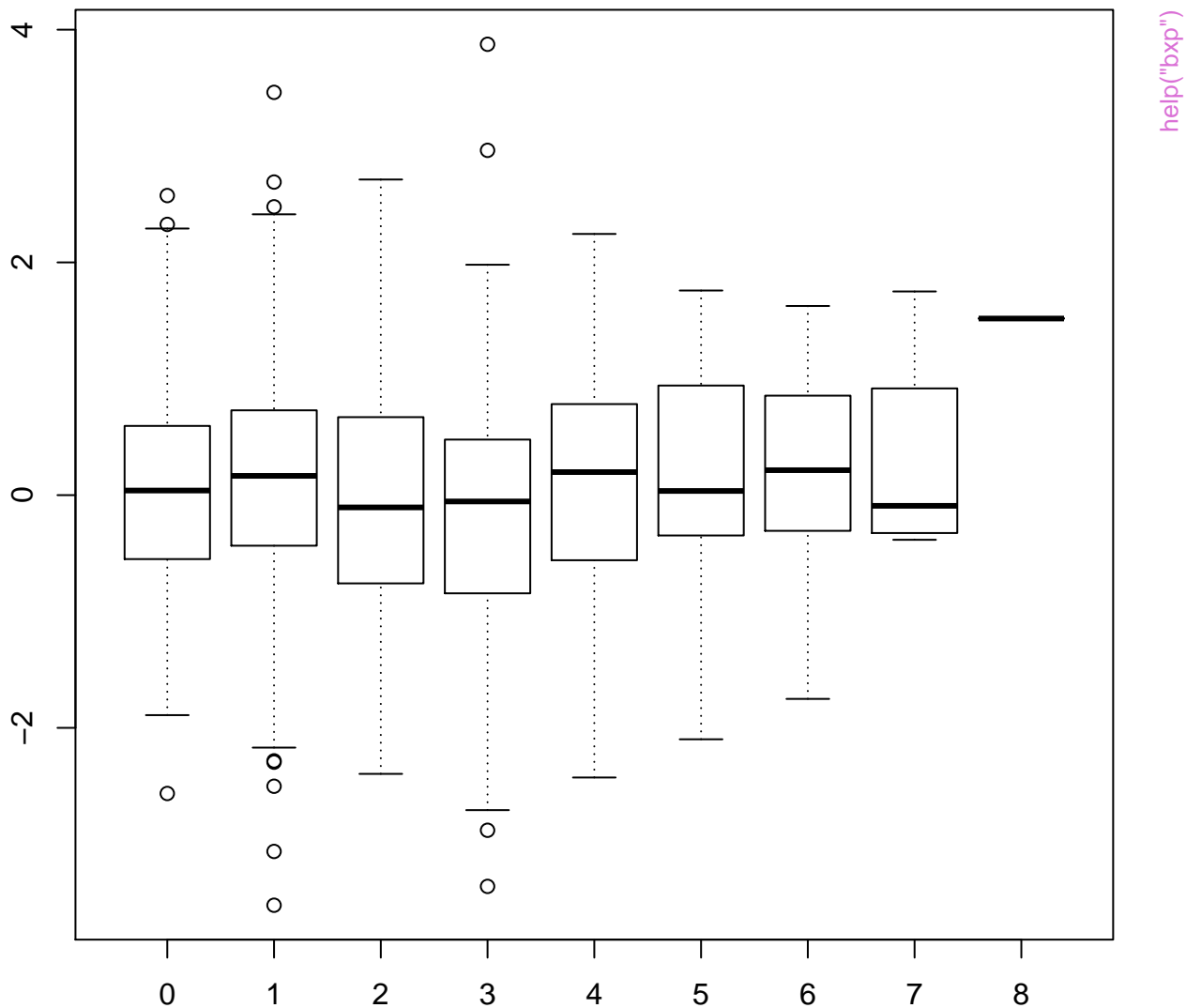






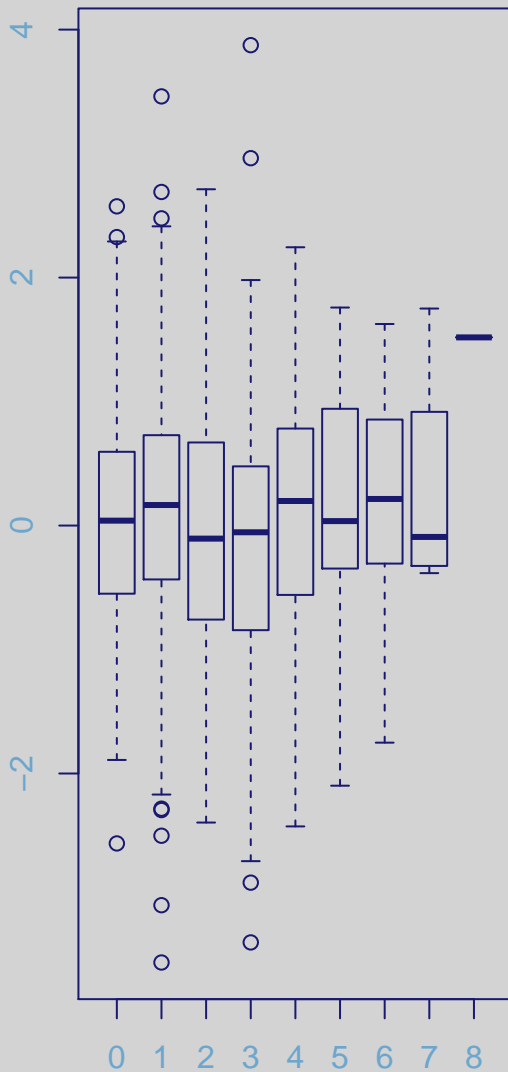
help("bxp")

**boxplot(z, whisklty = 3)**

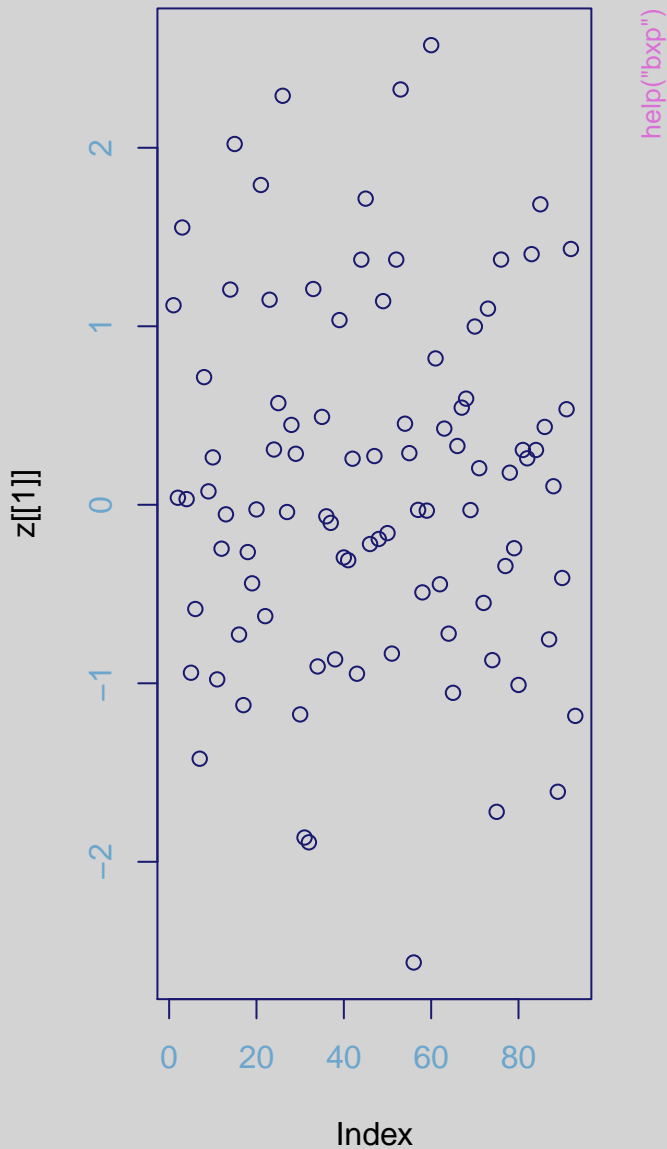


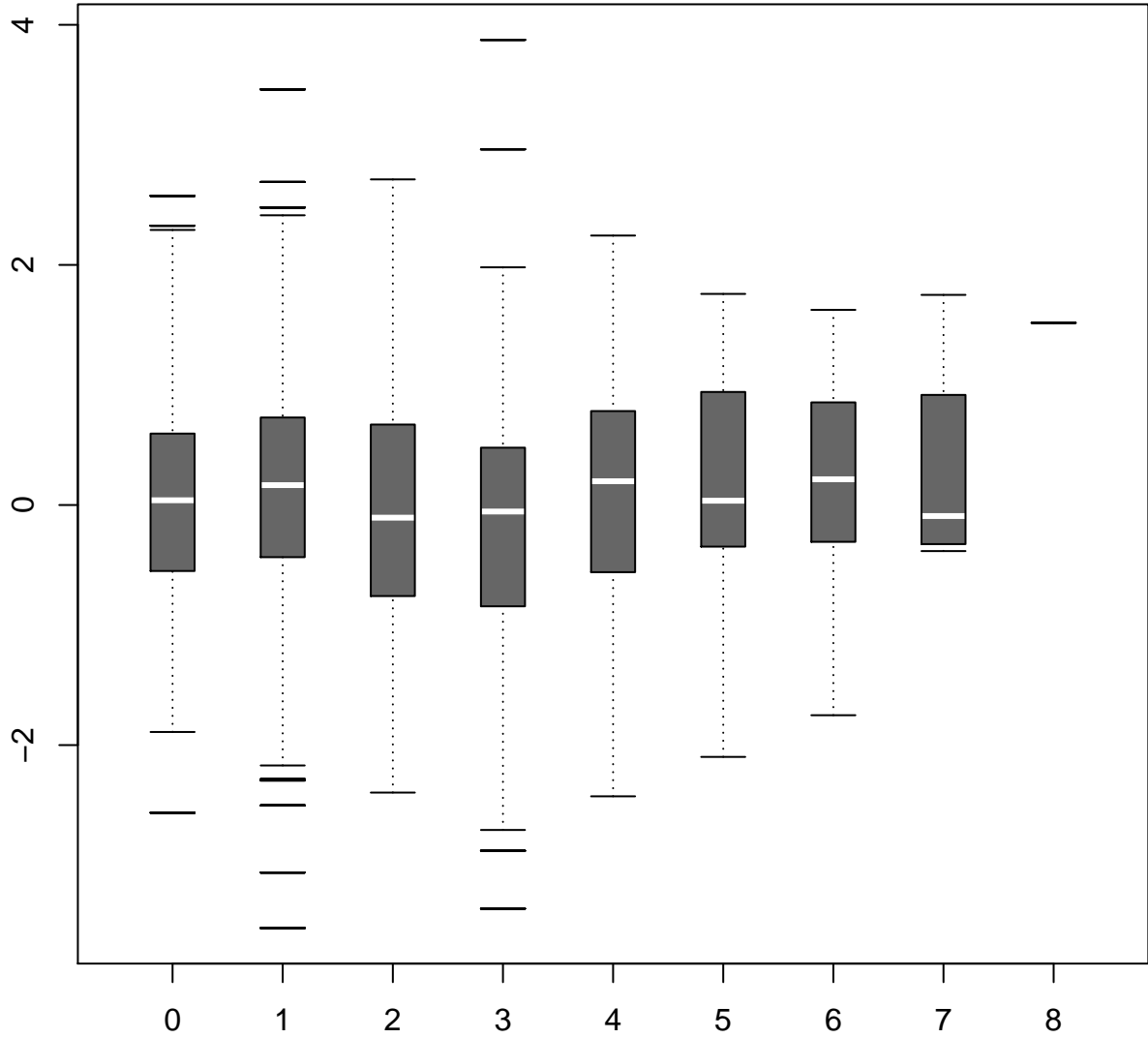
`par(bg="light gray", fg="midnight blue")`

`boxplot(*, col.axis=...,main=..)`

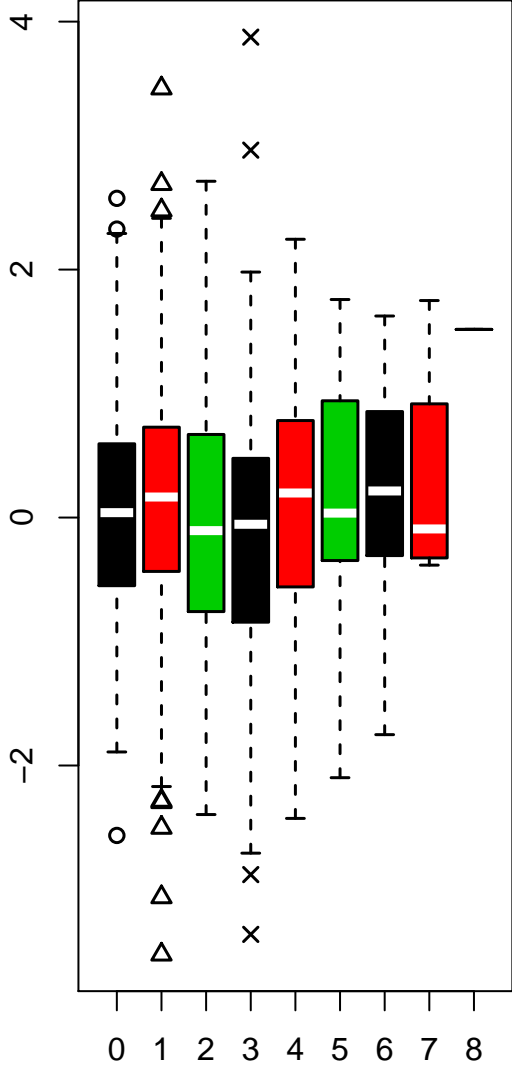
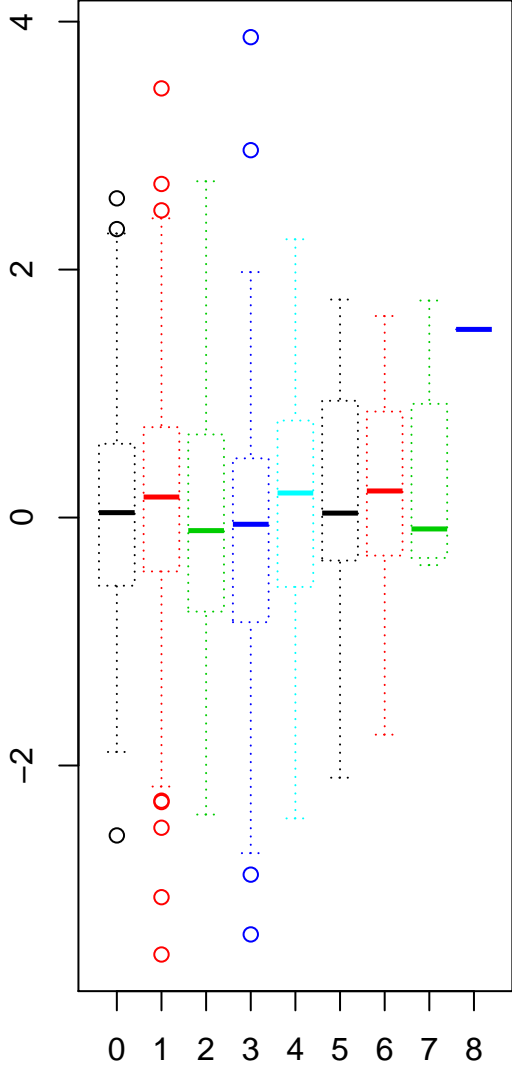


`plot(*, col.axis=...,main=..)`

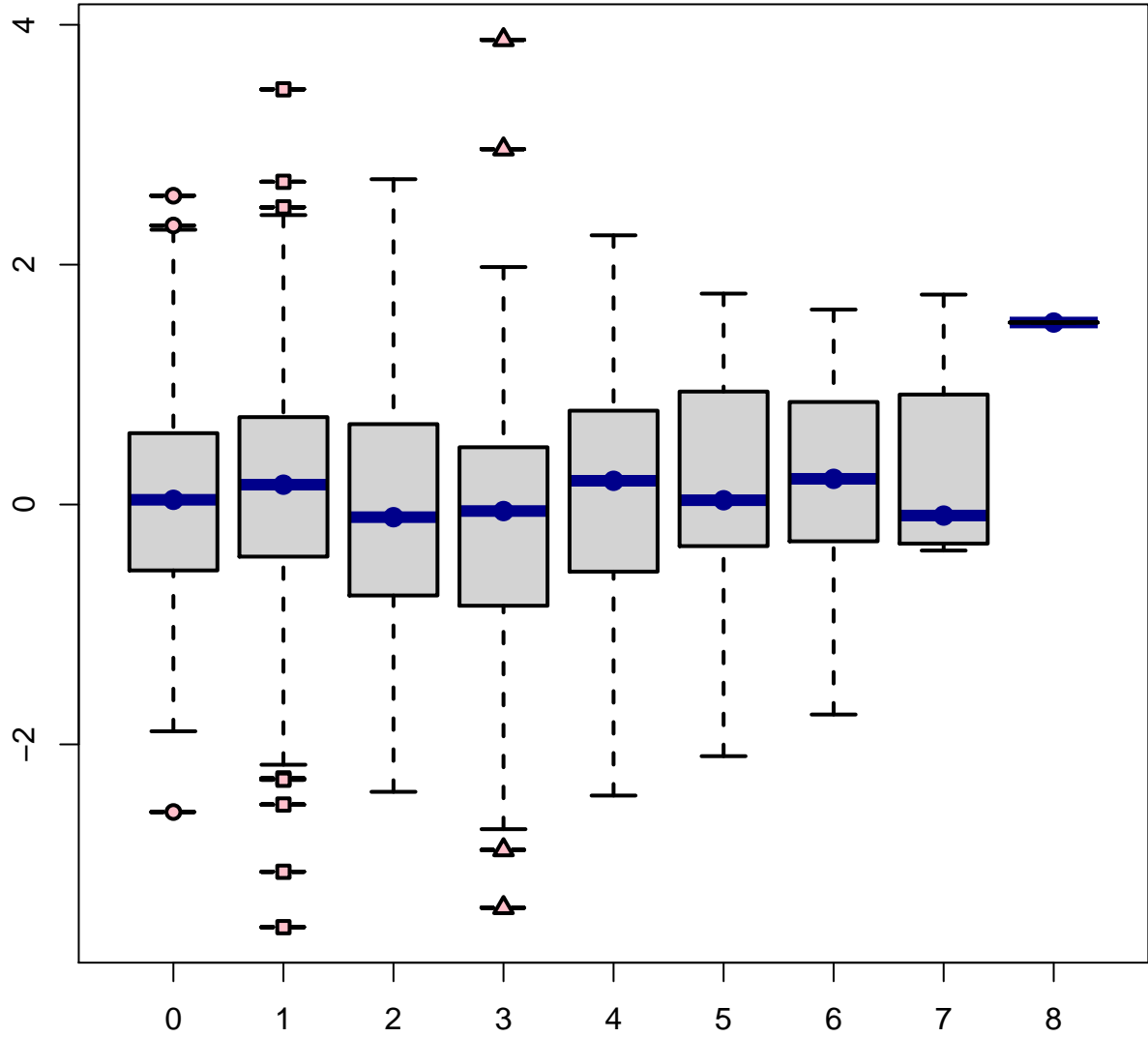




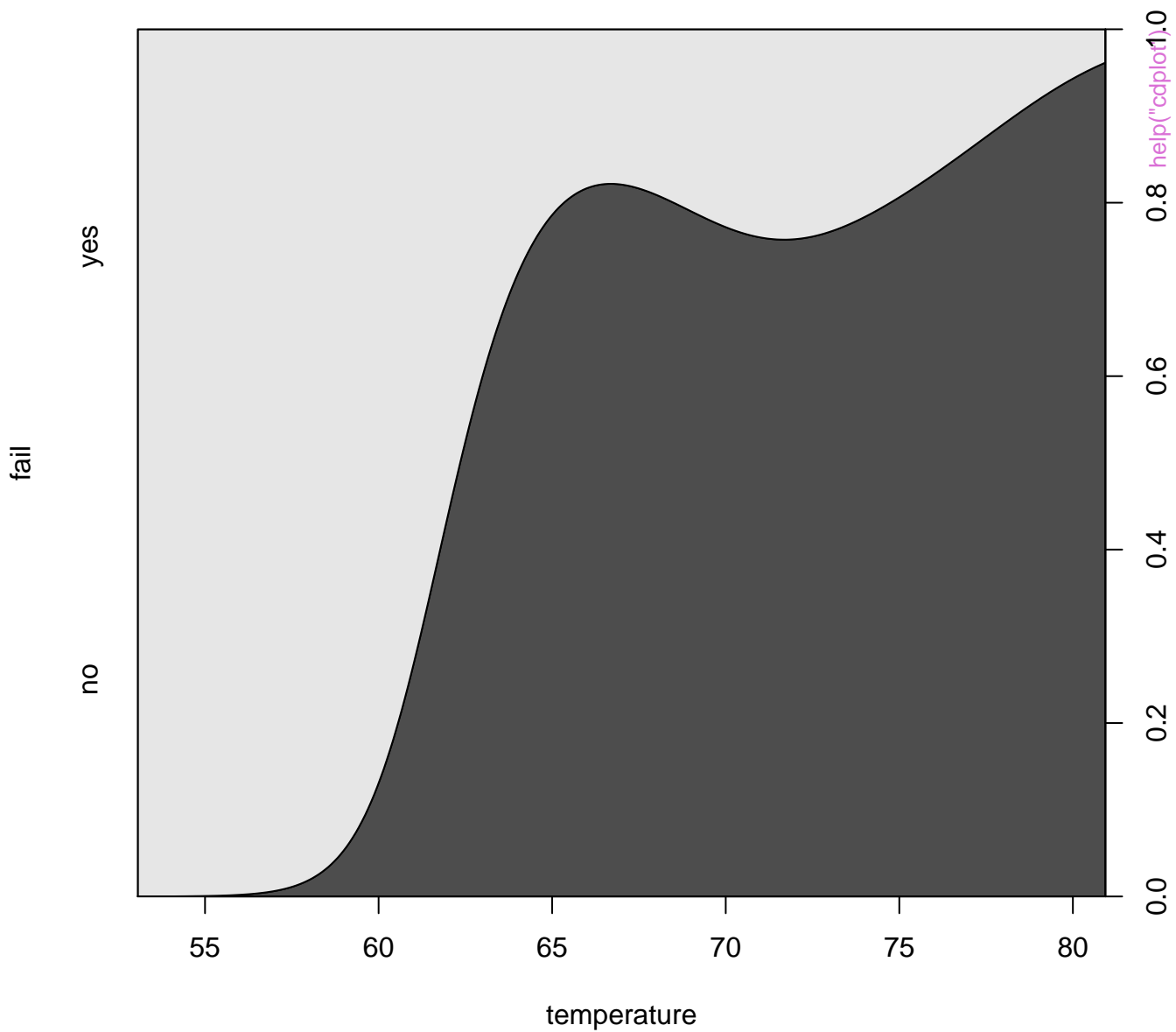
help("bxp")

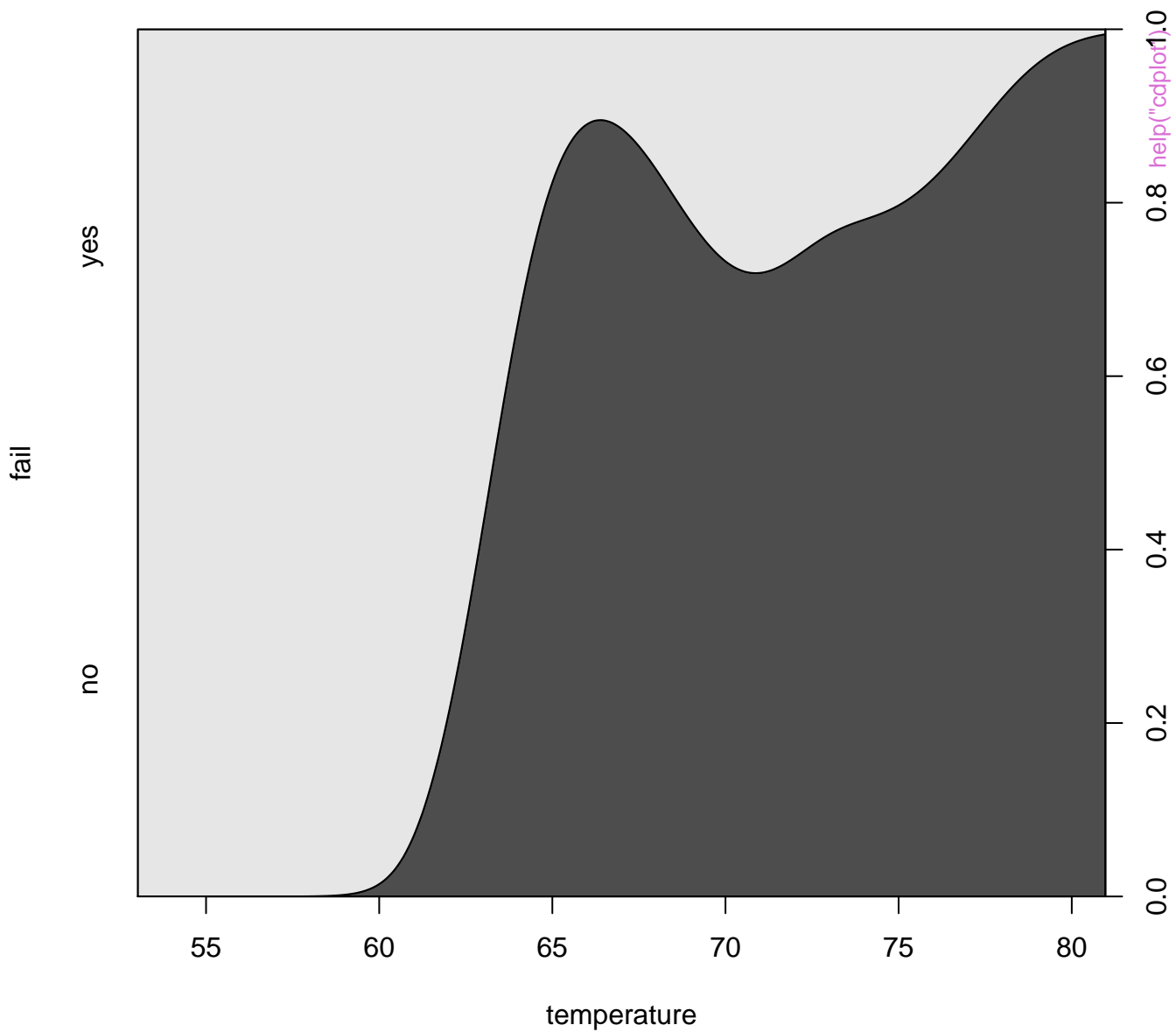


help("bxp")

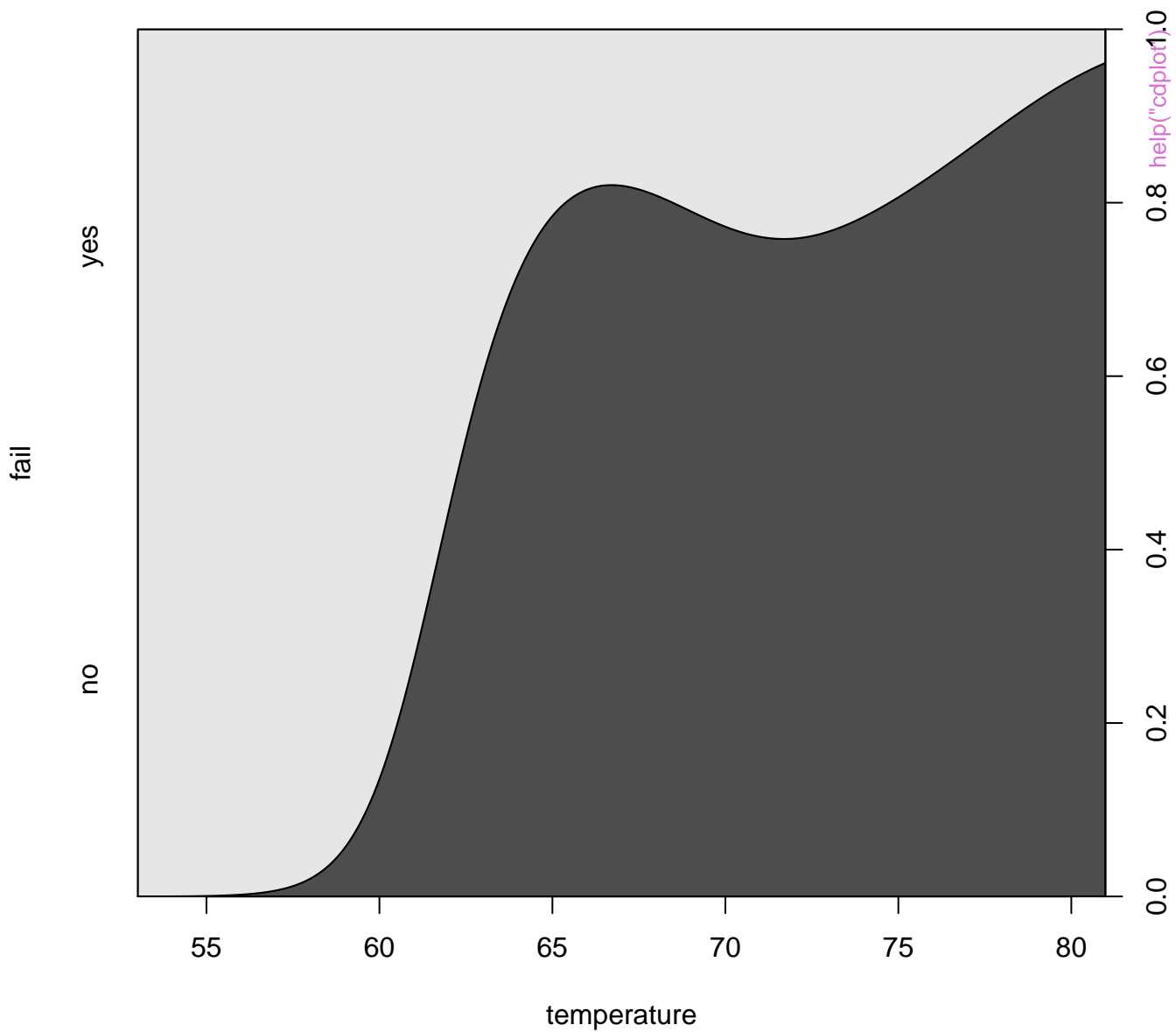


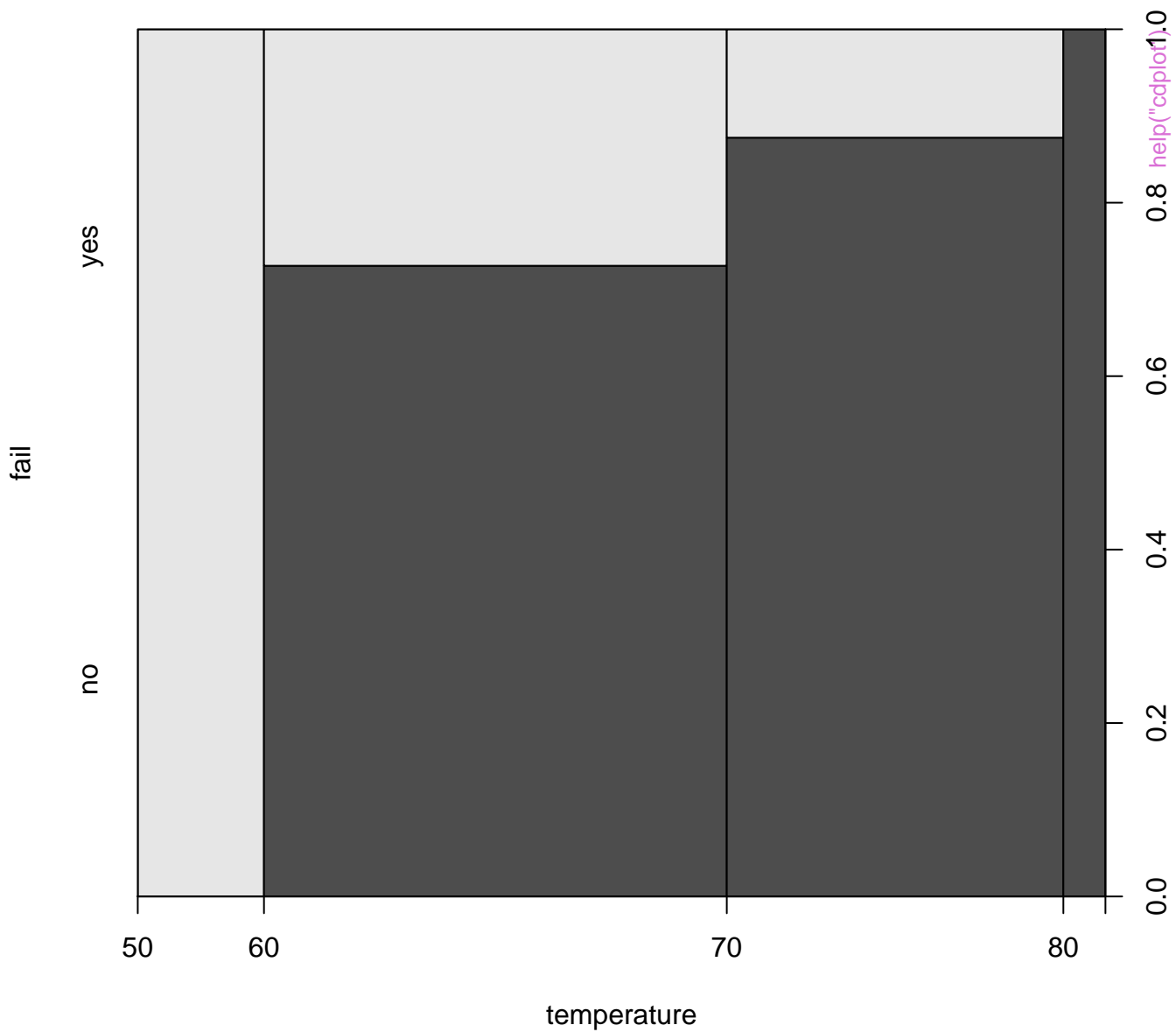
help("bxp")

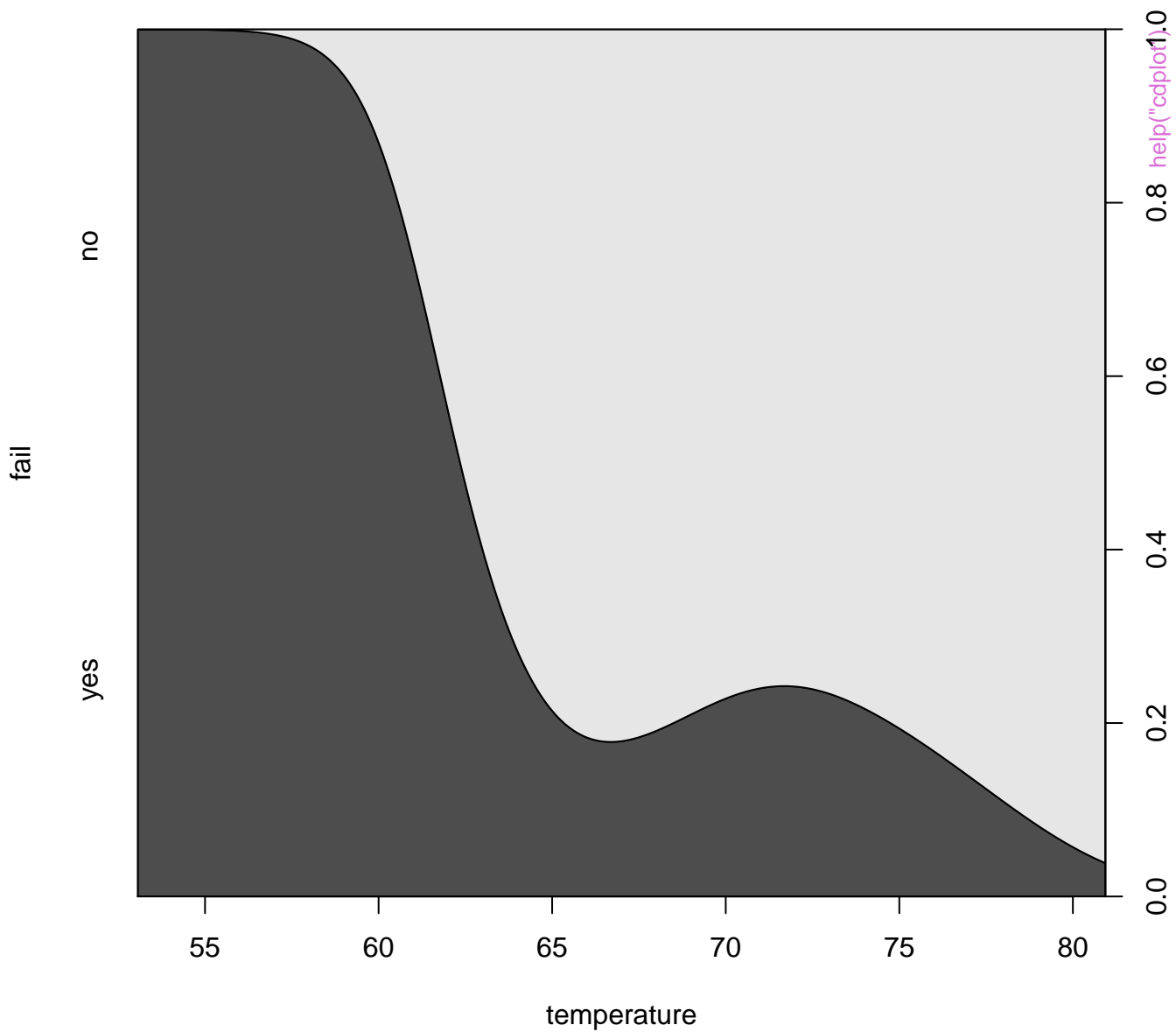


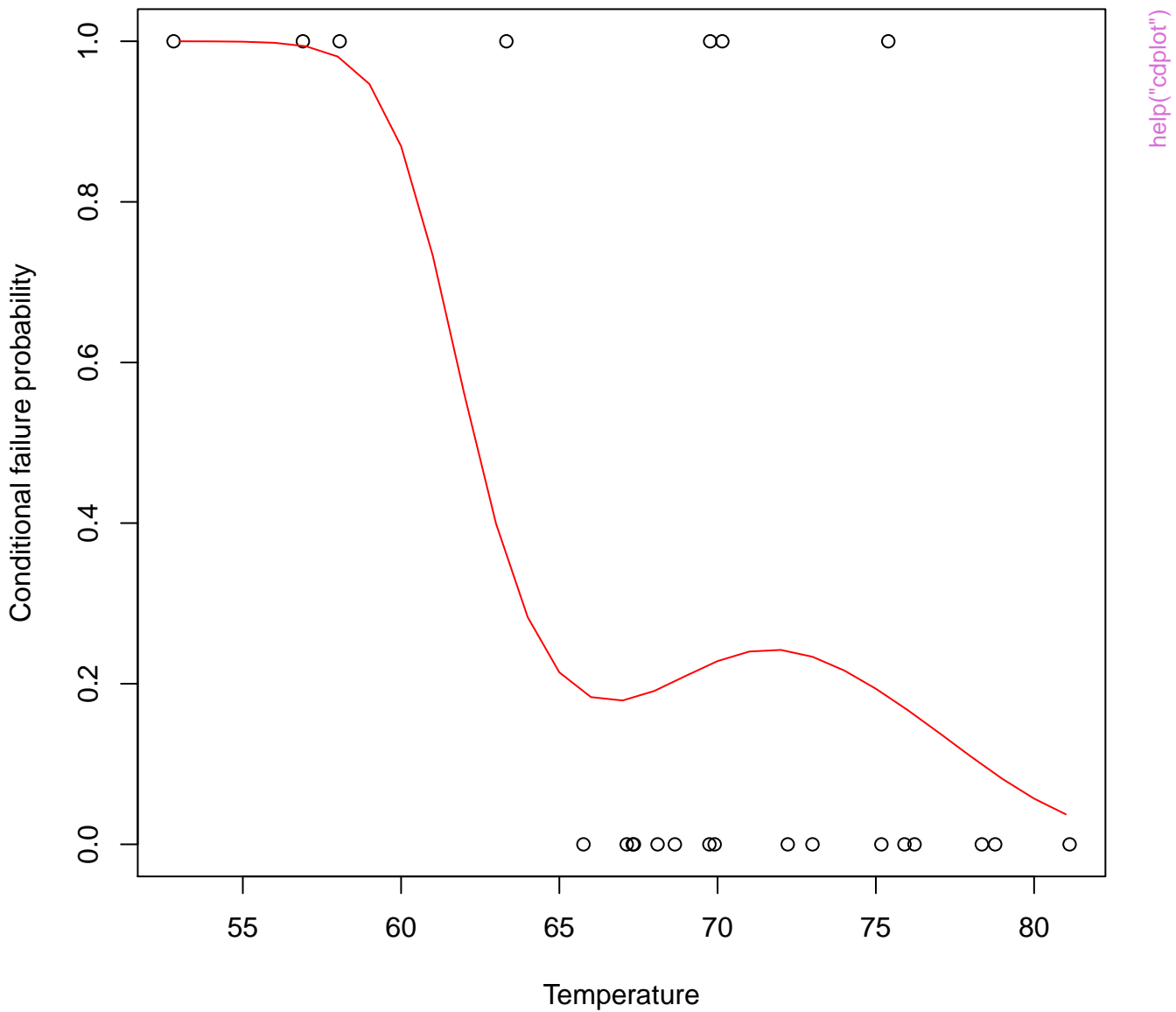




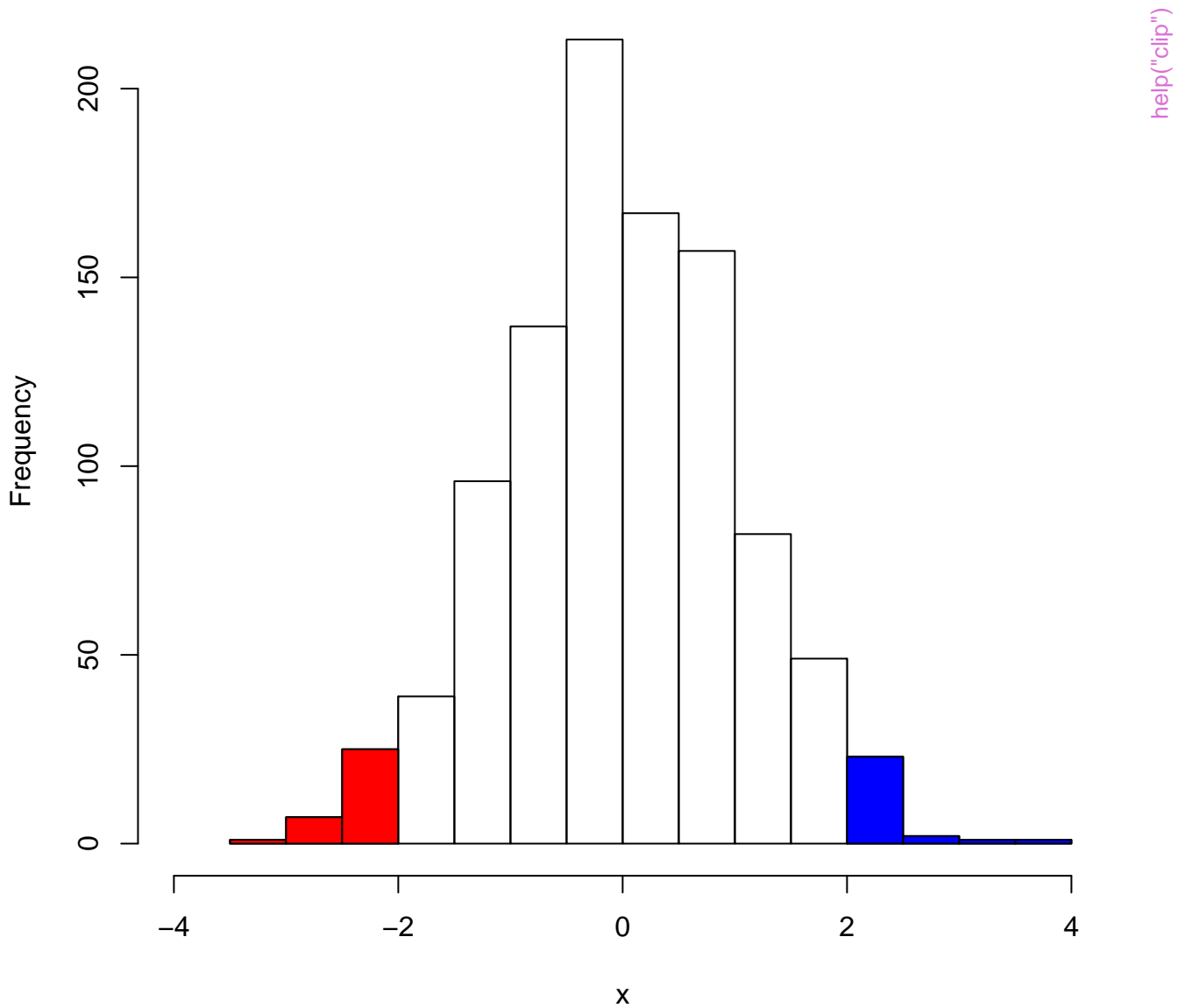


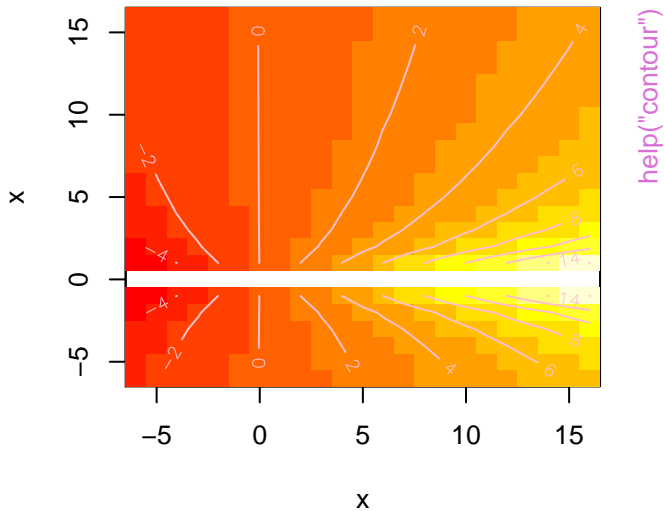
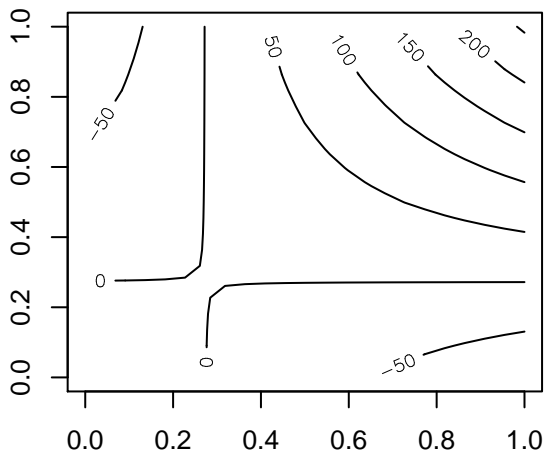




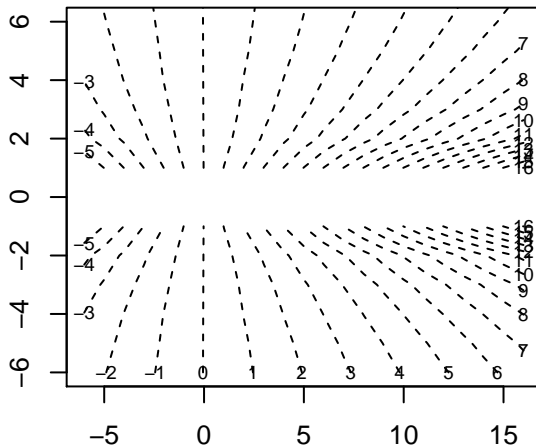
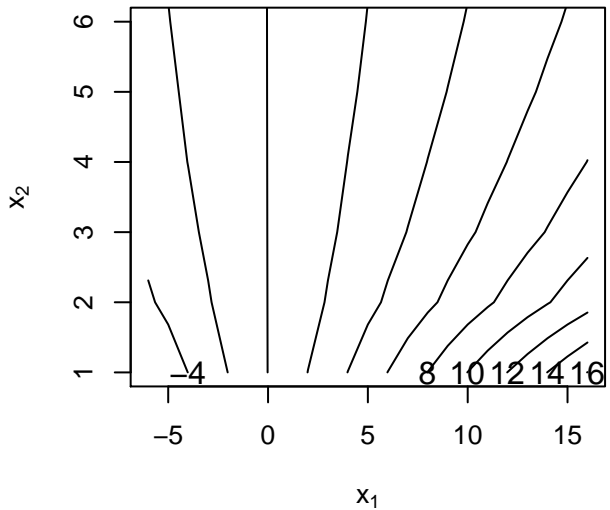


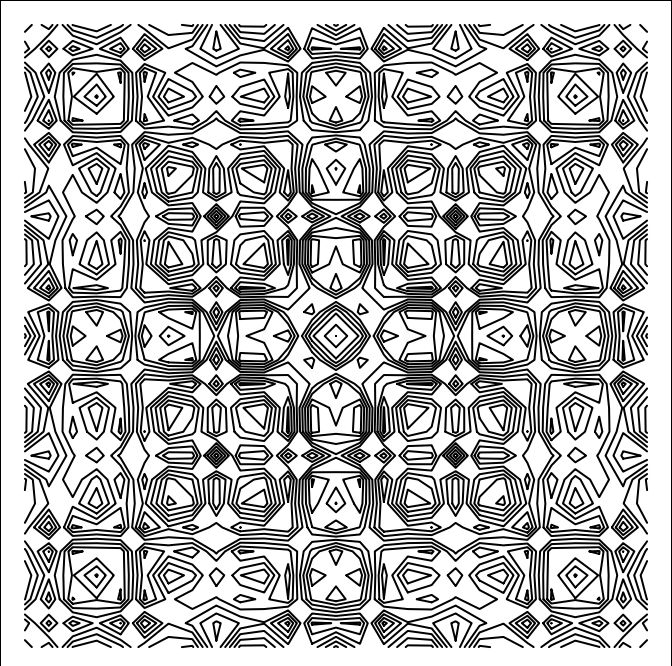
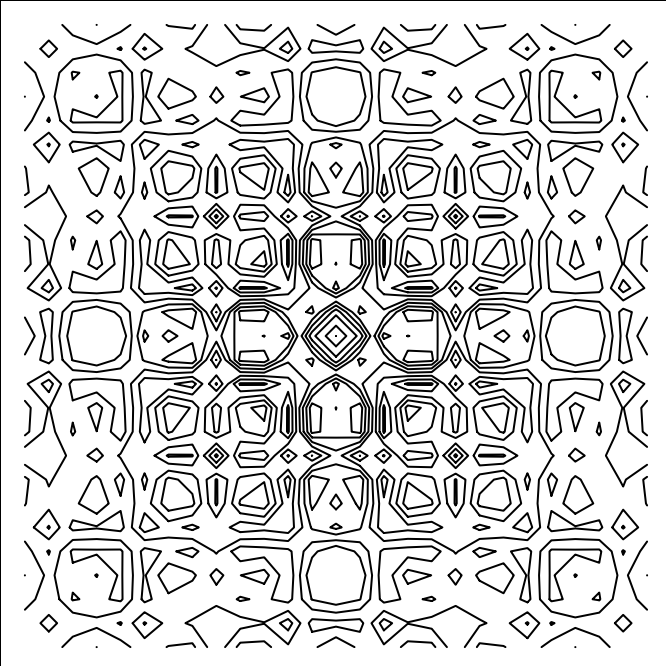
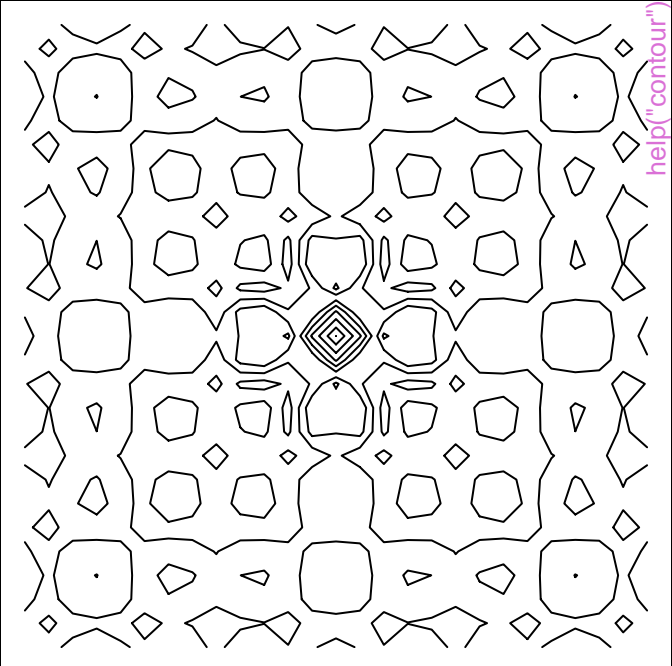
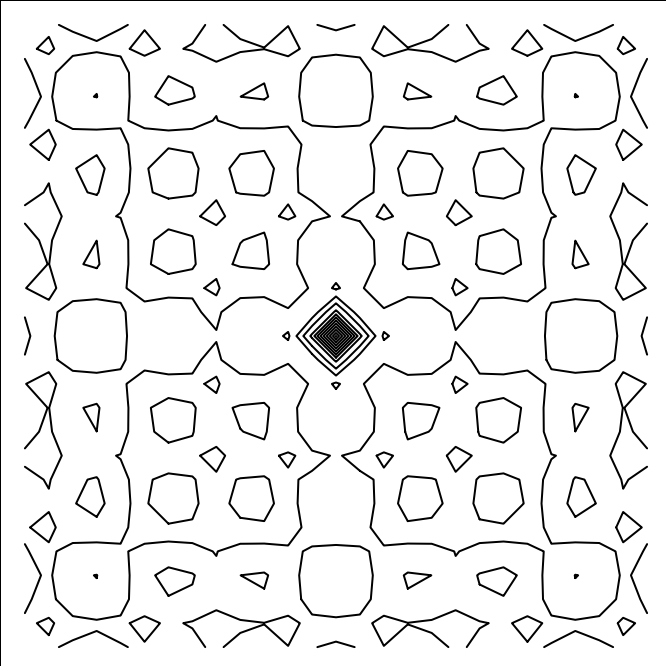
Histogram of x



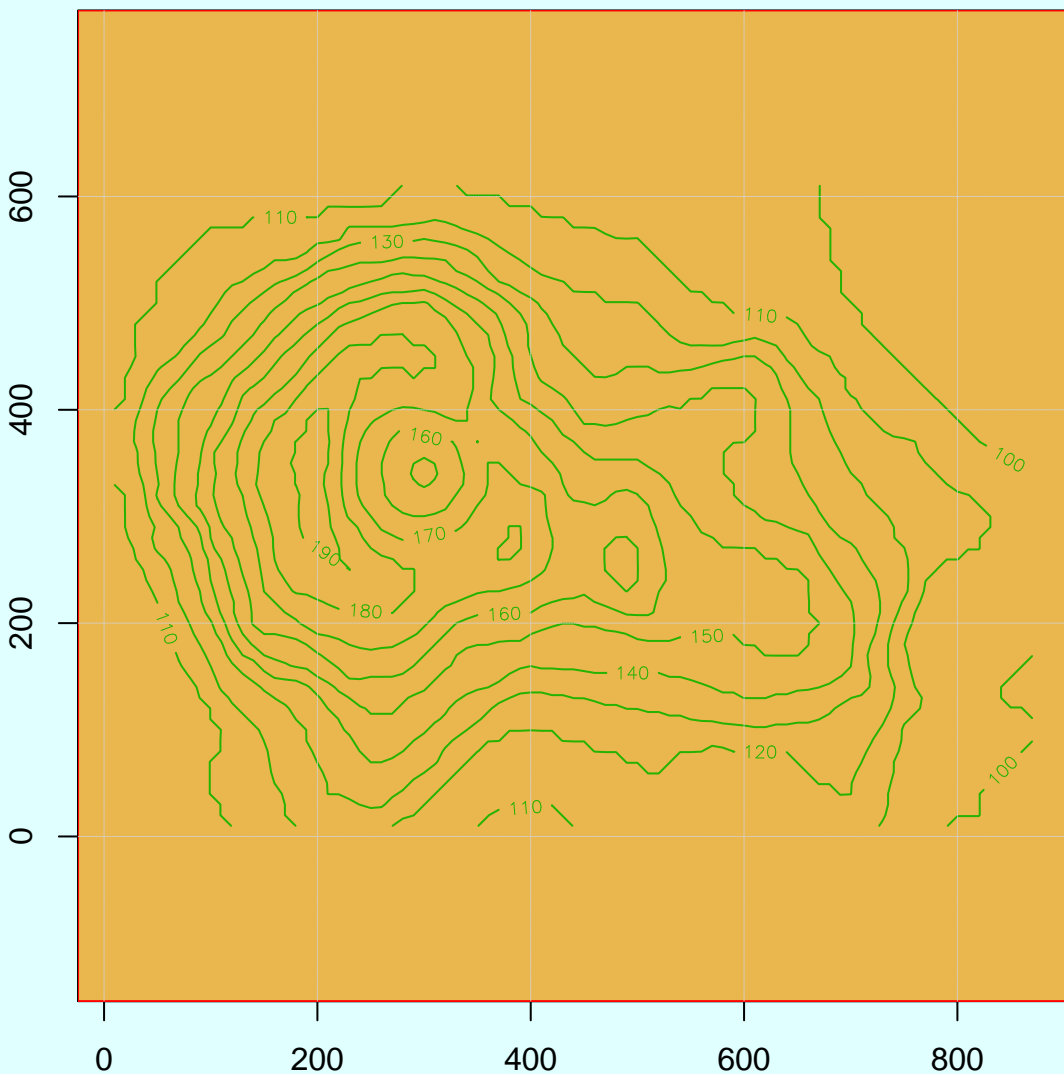


**20 levels; "simple" labelling method**



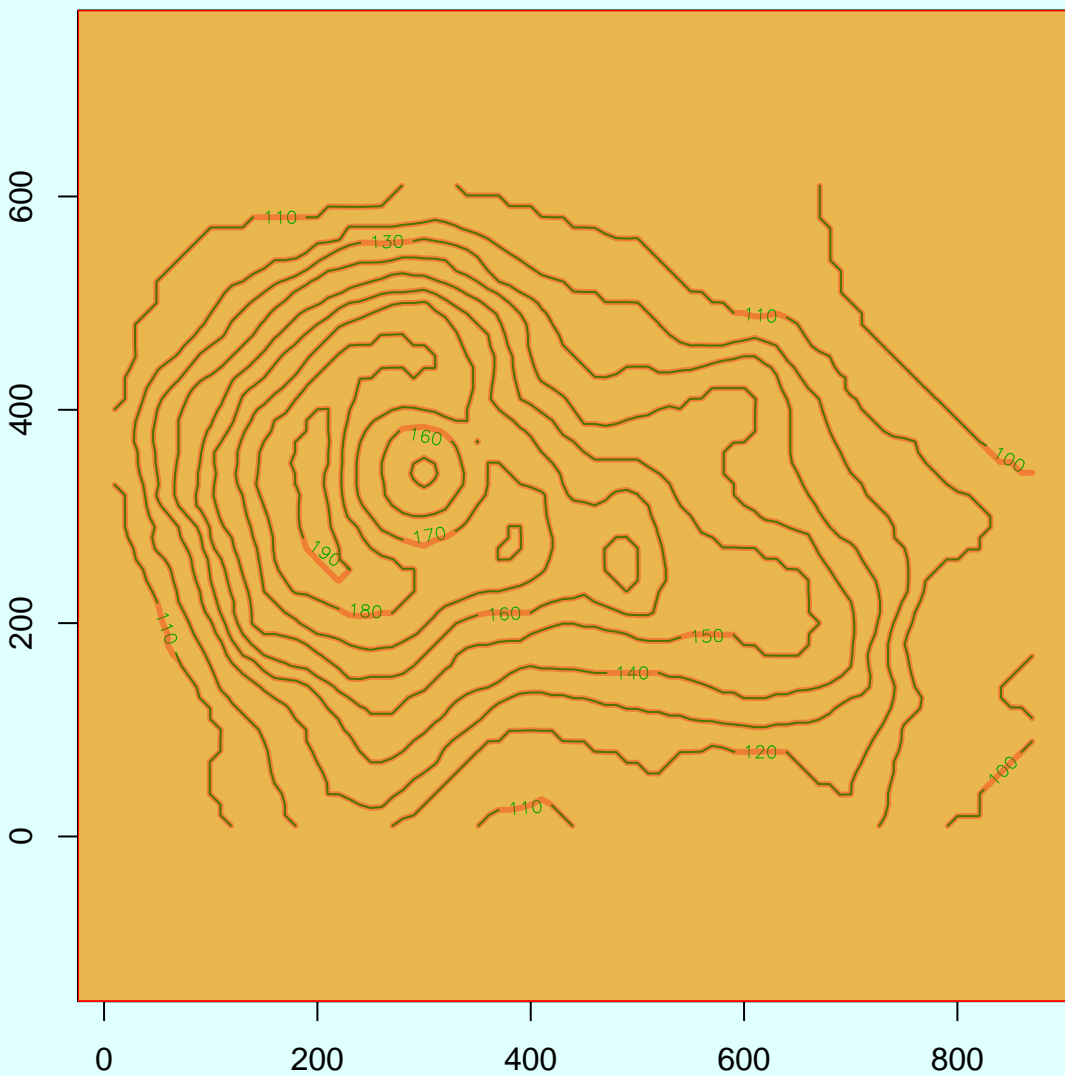


# A Topographic Map of Maunga Whau

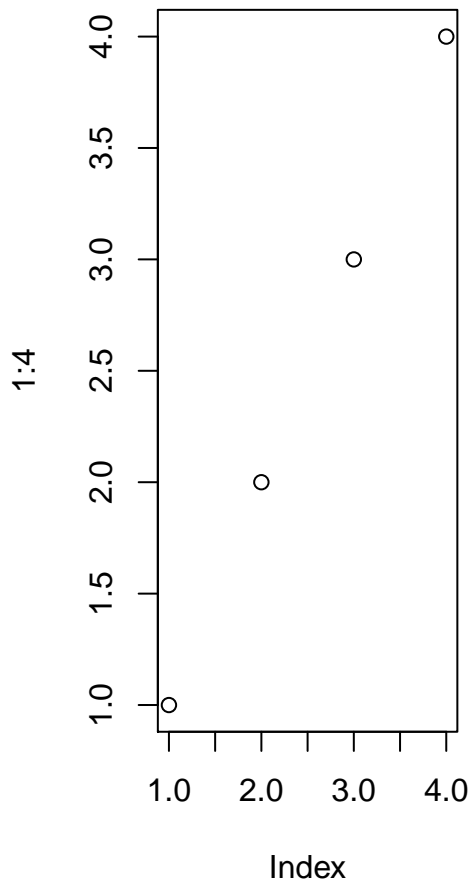


help("contour")

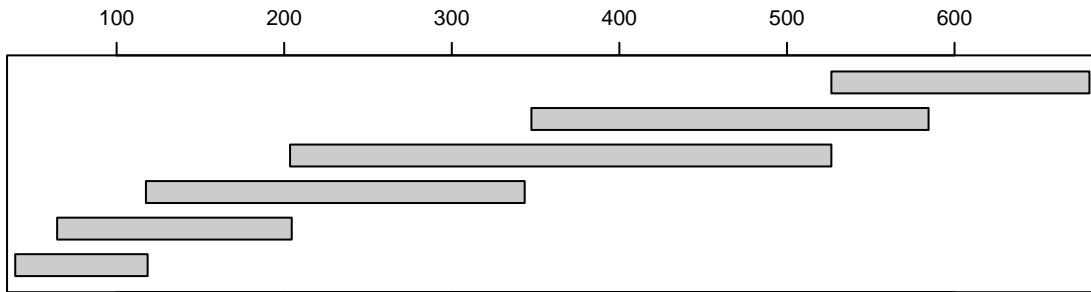




help("contour")

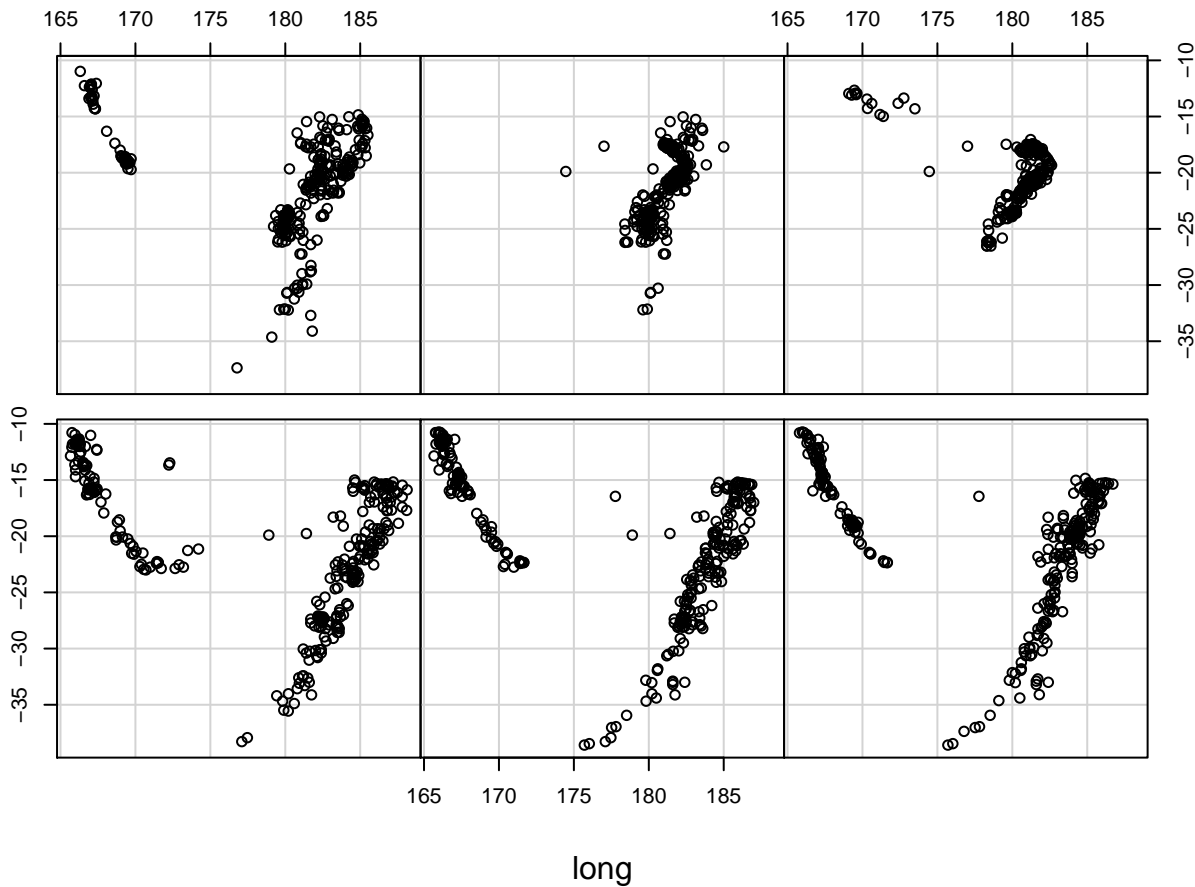


Given : depth



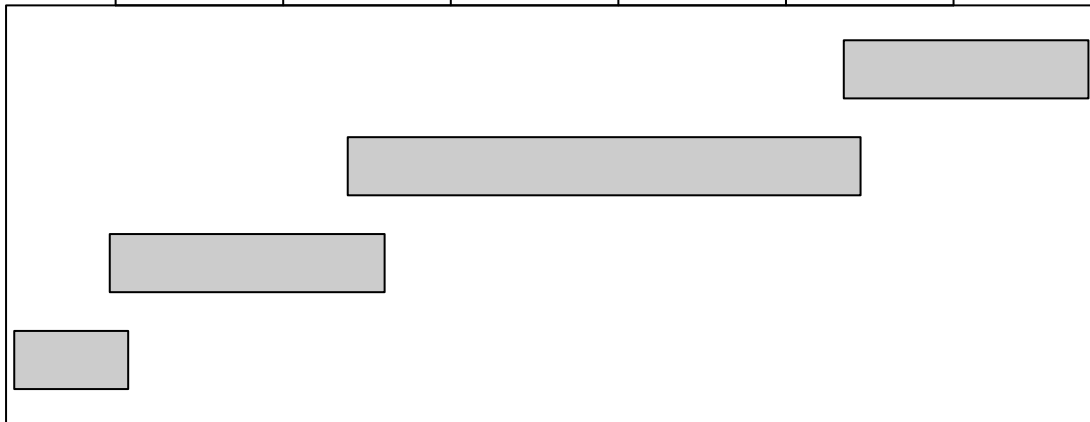
[help\("coplot"\)](#)

lat

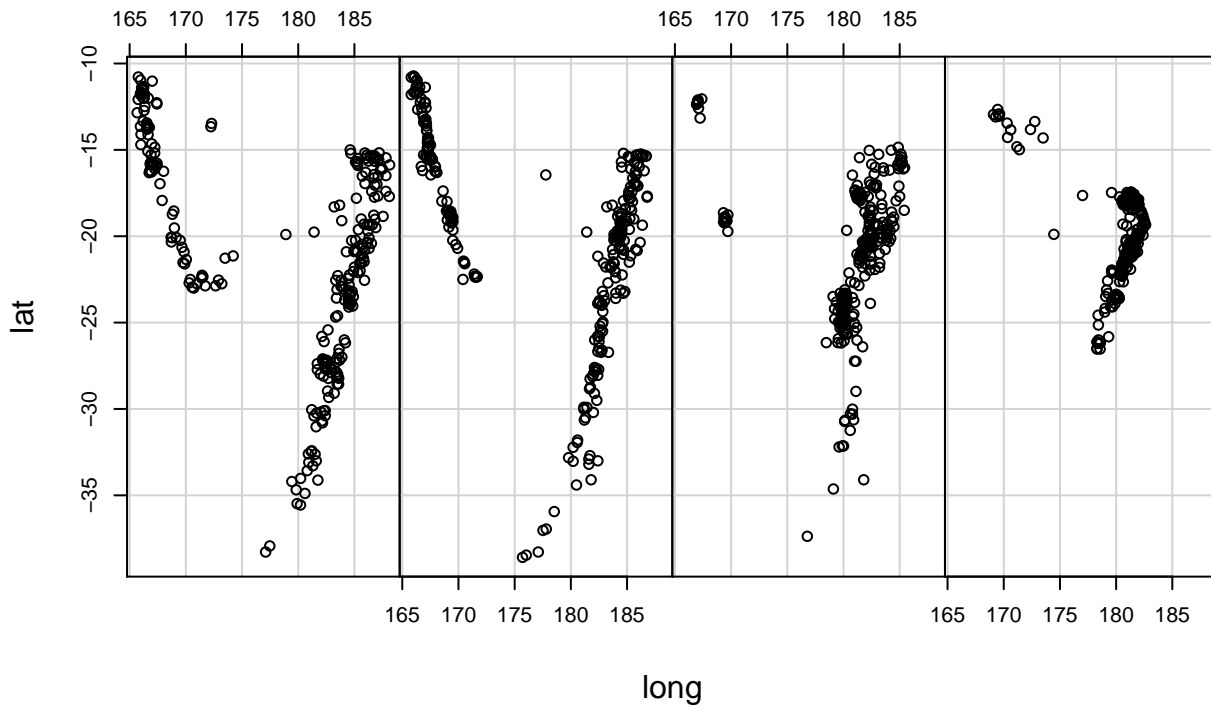


Given : depth

100 200 300 400 500 600

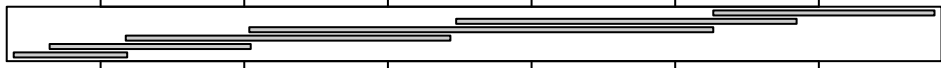


help("coplot")



Given : depth

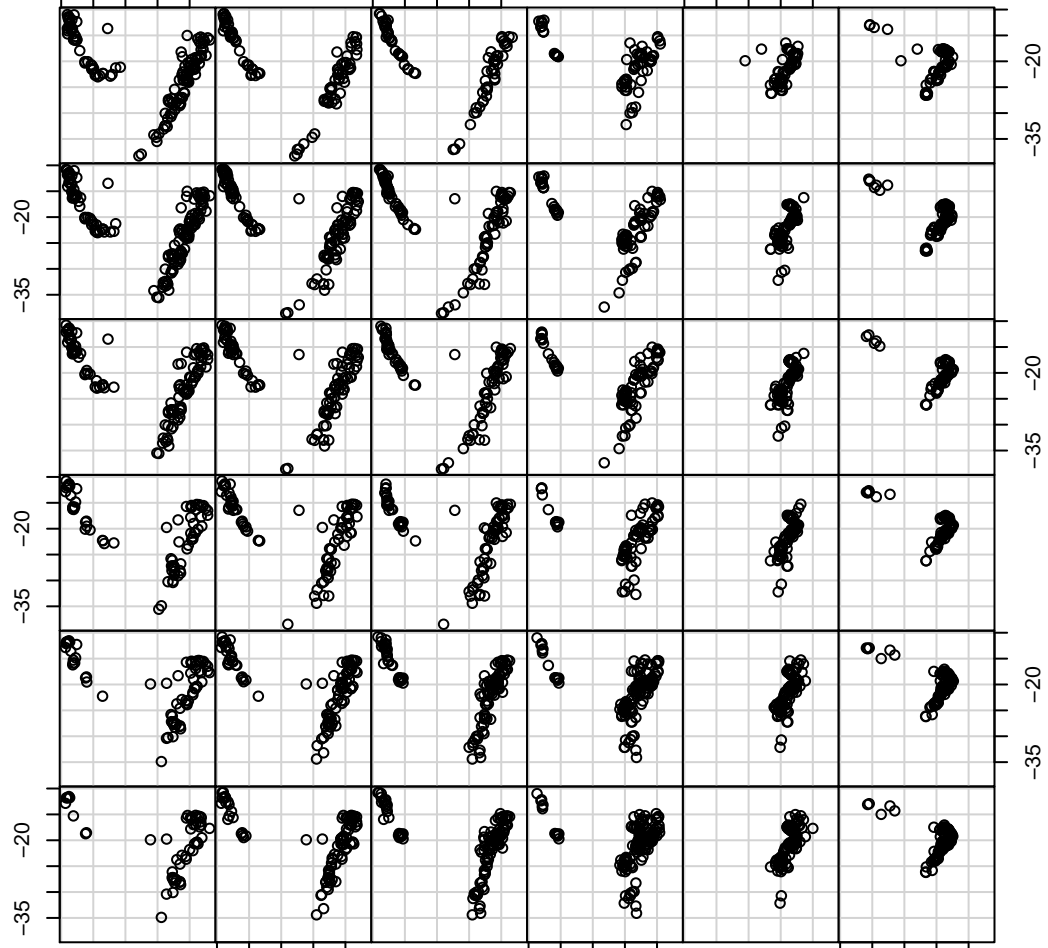
100 200 300 400 500 600



165 175 185

165 175 185

165 175 185



lat

long

Given : mag

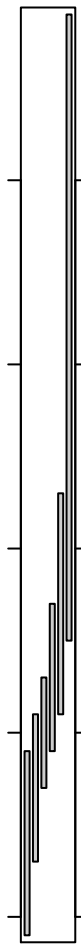
6.0

5.5

5.0

4.5

4.0



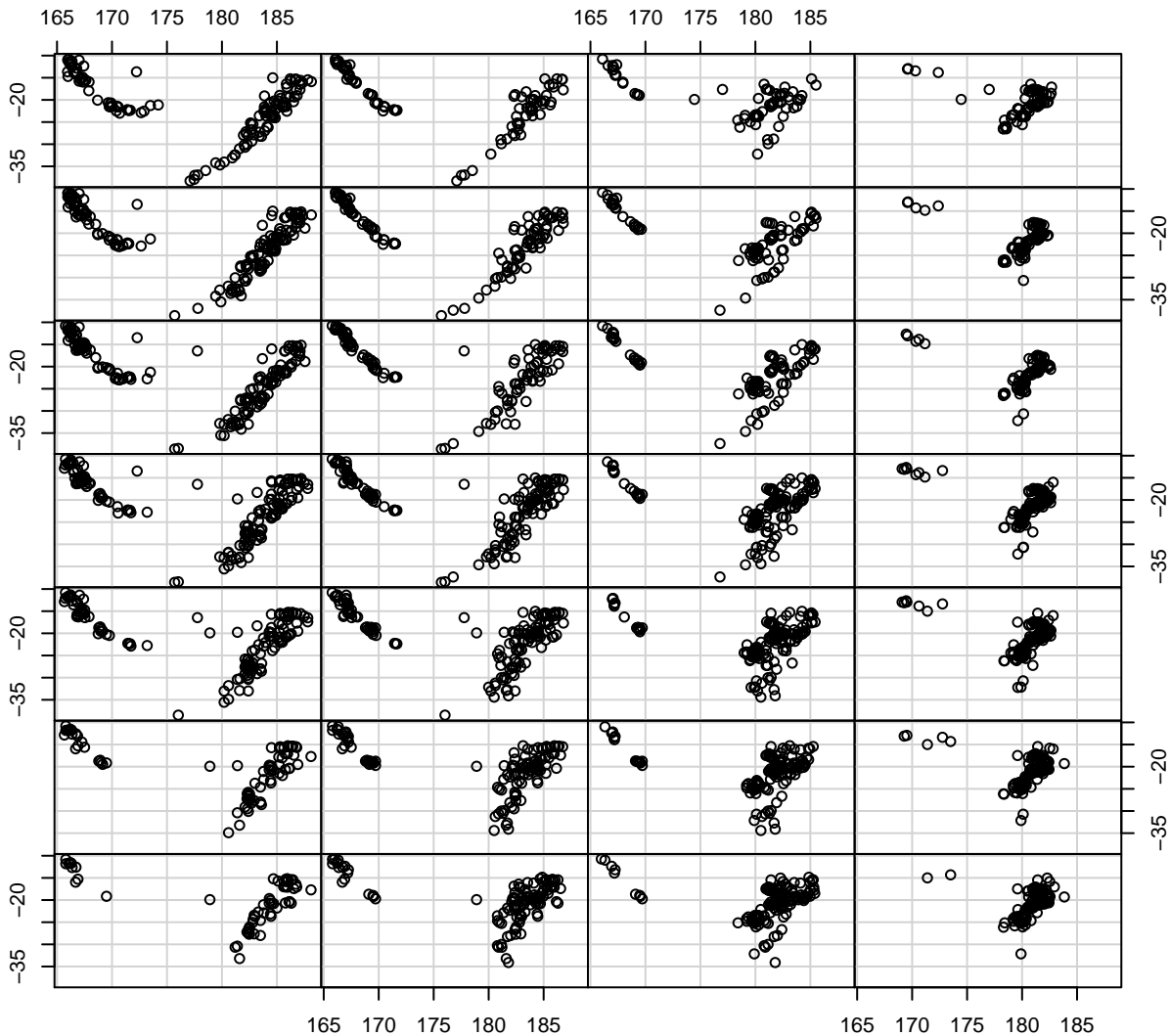
help("coplot")

Given : depth

100 200 300 400 500 600

help("coplot")

lat



Given : mag

long

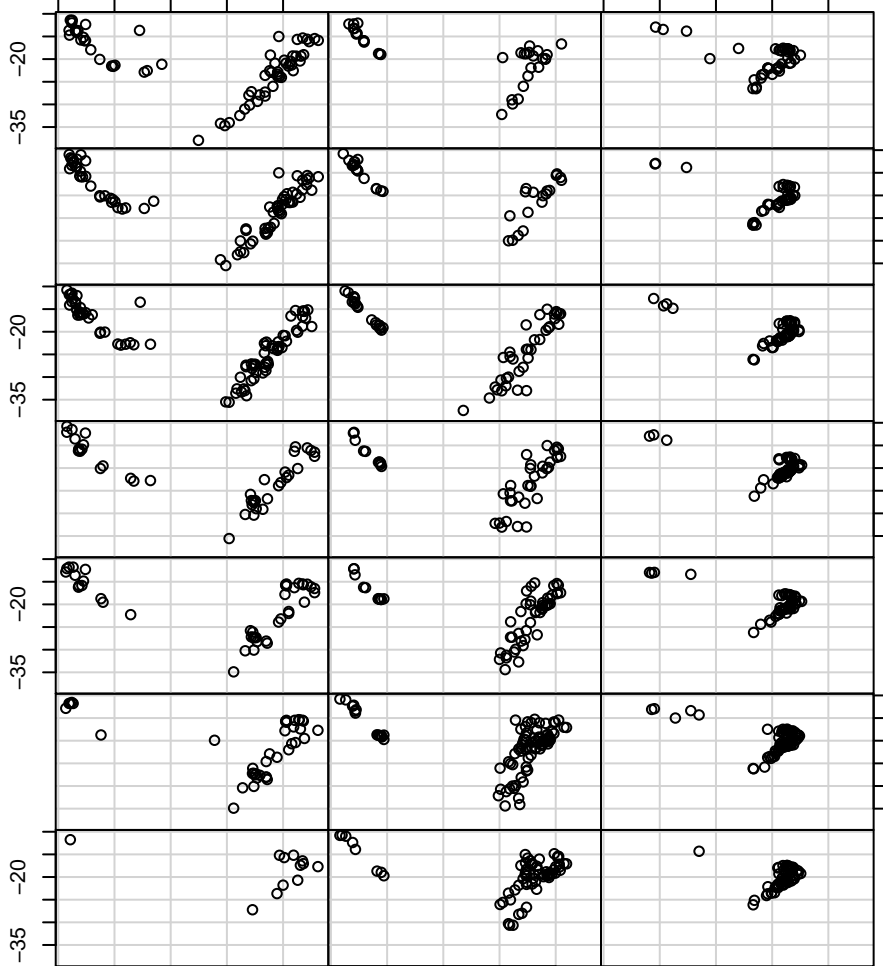
Given : depth

100 200 300 400 500 600



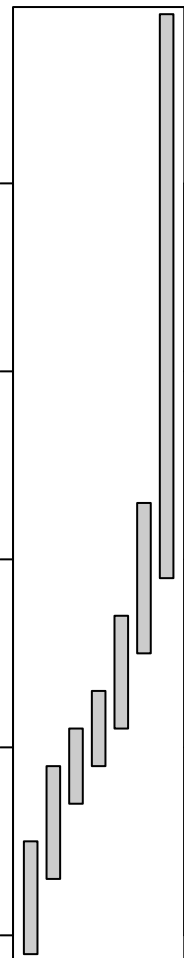
165 170 175 180 185

165 170 175 180 185



165 170 175 180 185

long

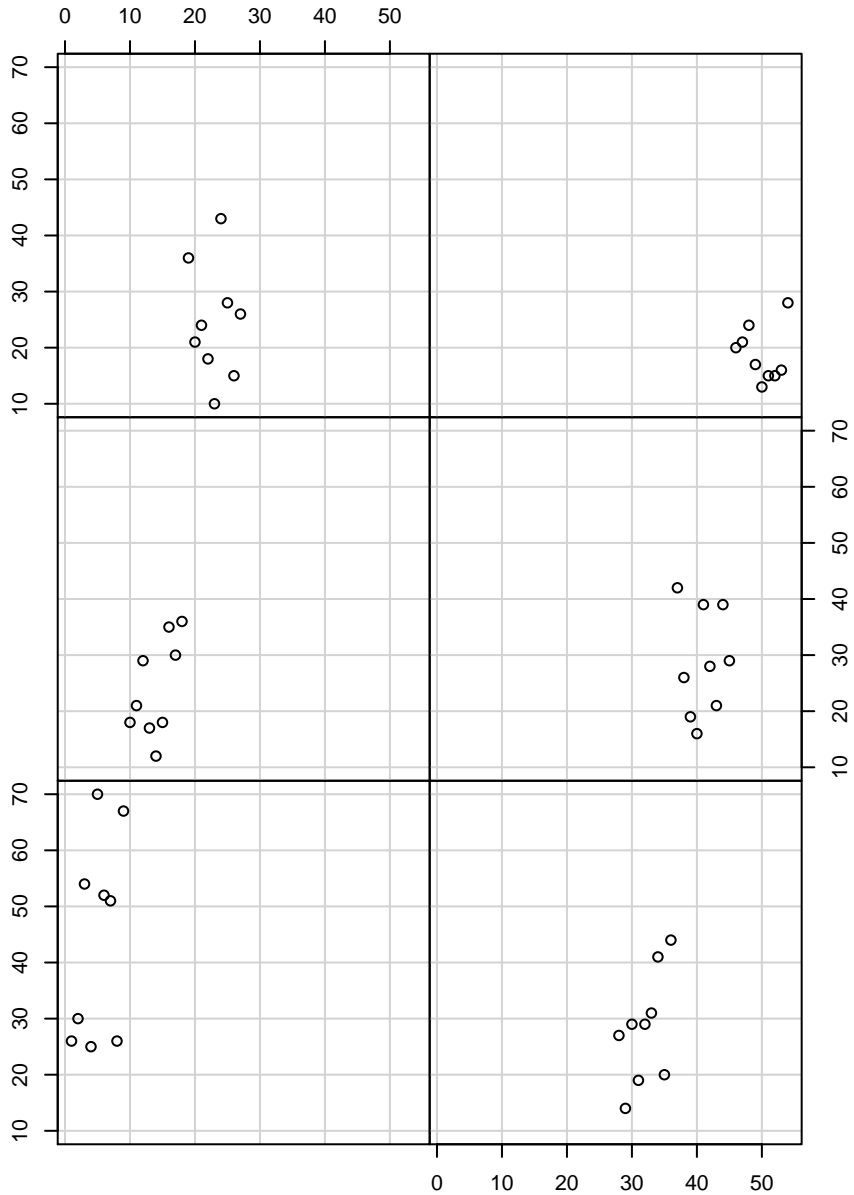


Given : mag

help("coplot")

Given : wool

breaks



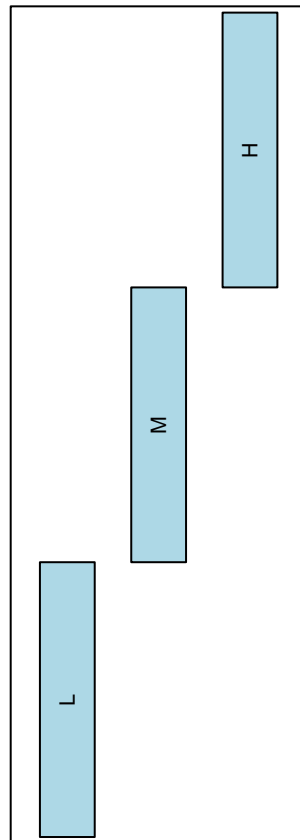
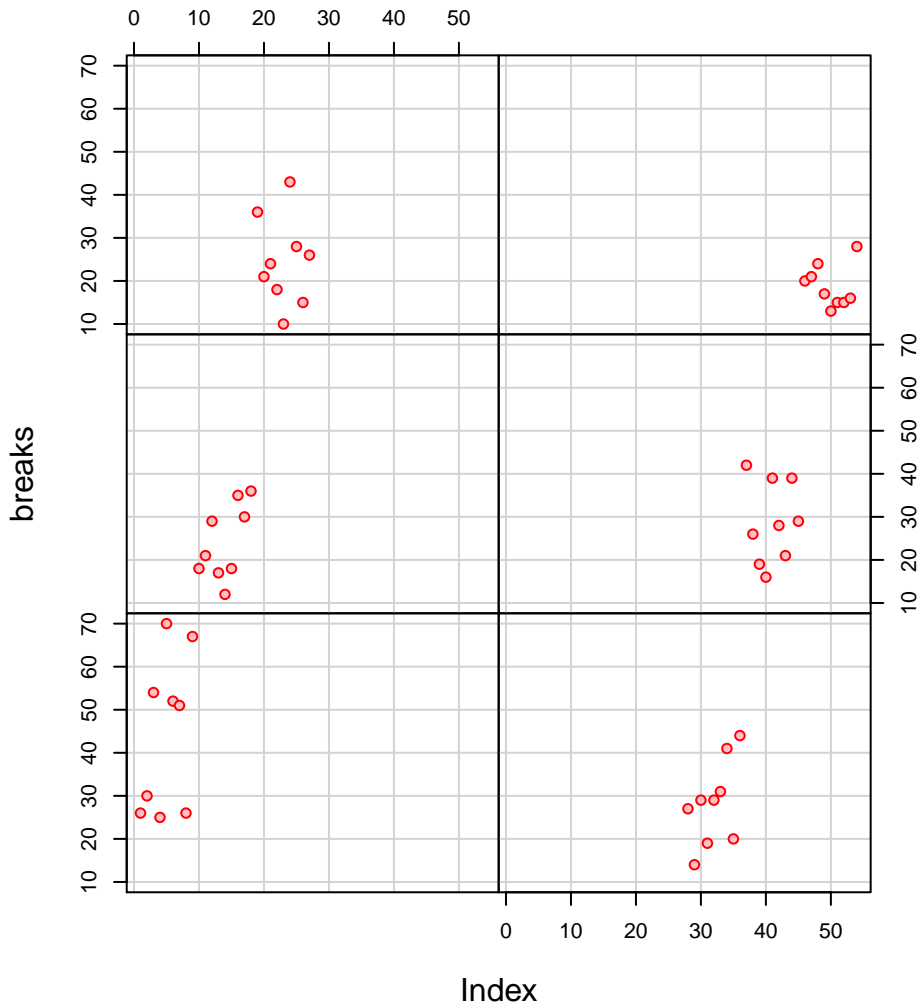
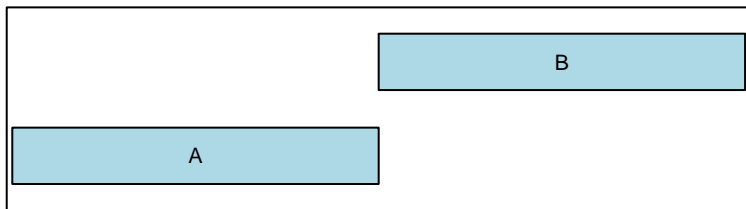
Index

Given : tension

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



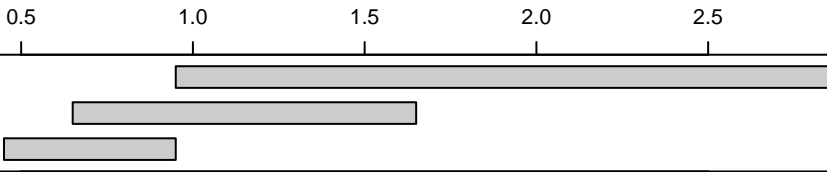
Given : wool



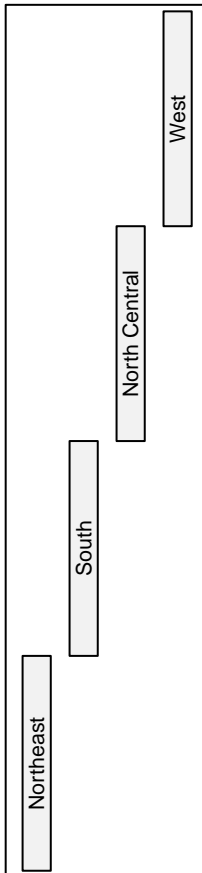
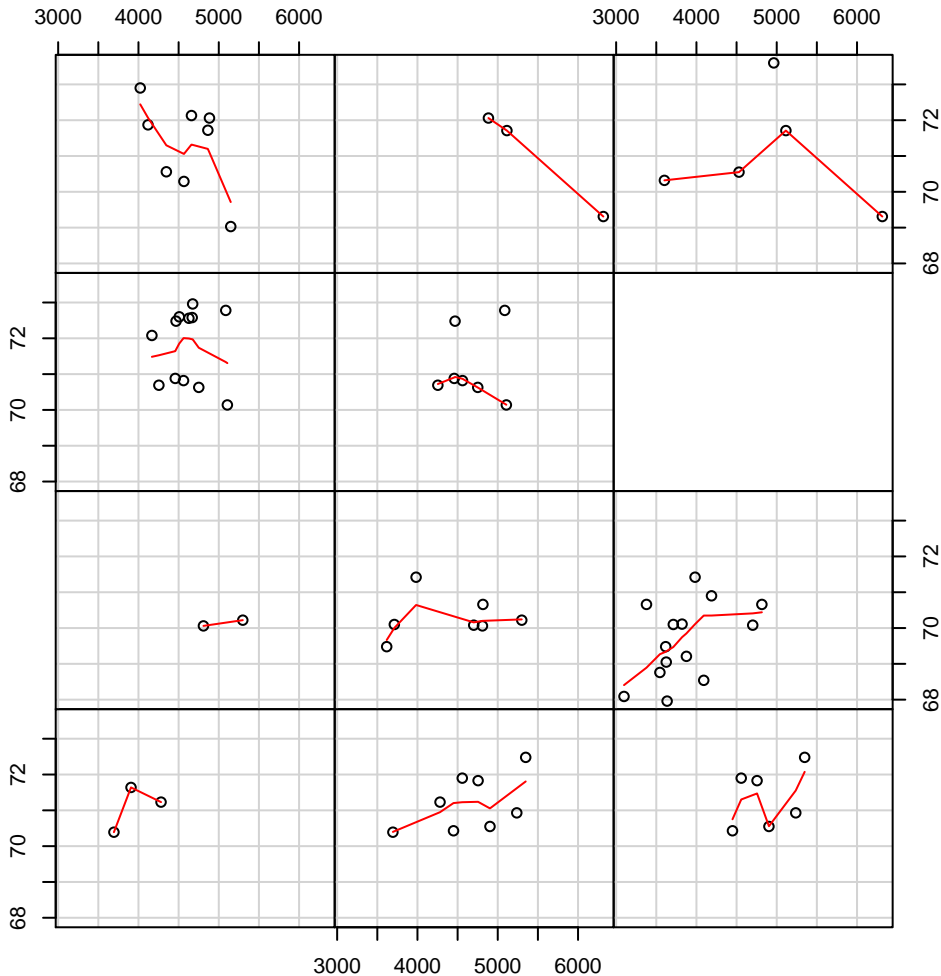
Given : tension

help("coplot")

Given : Illiteracy

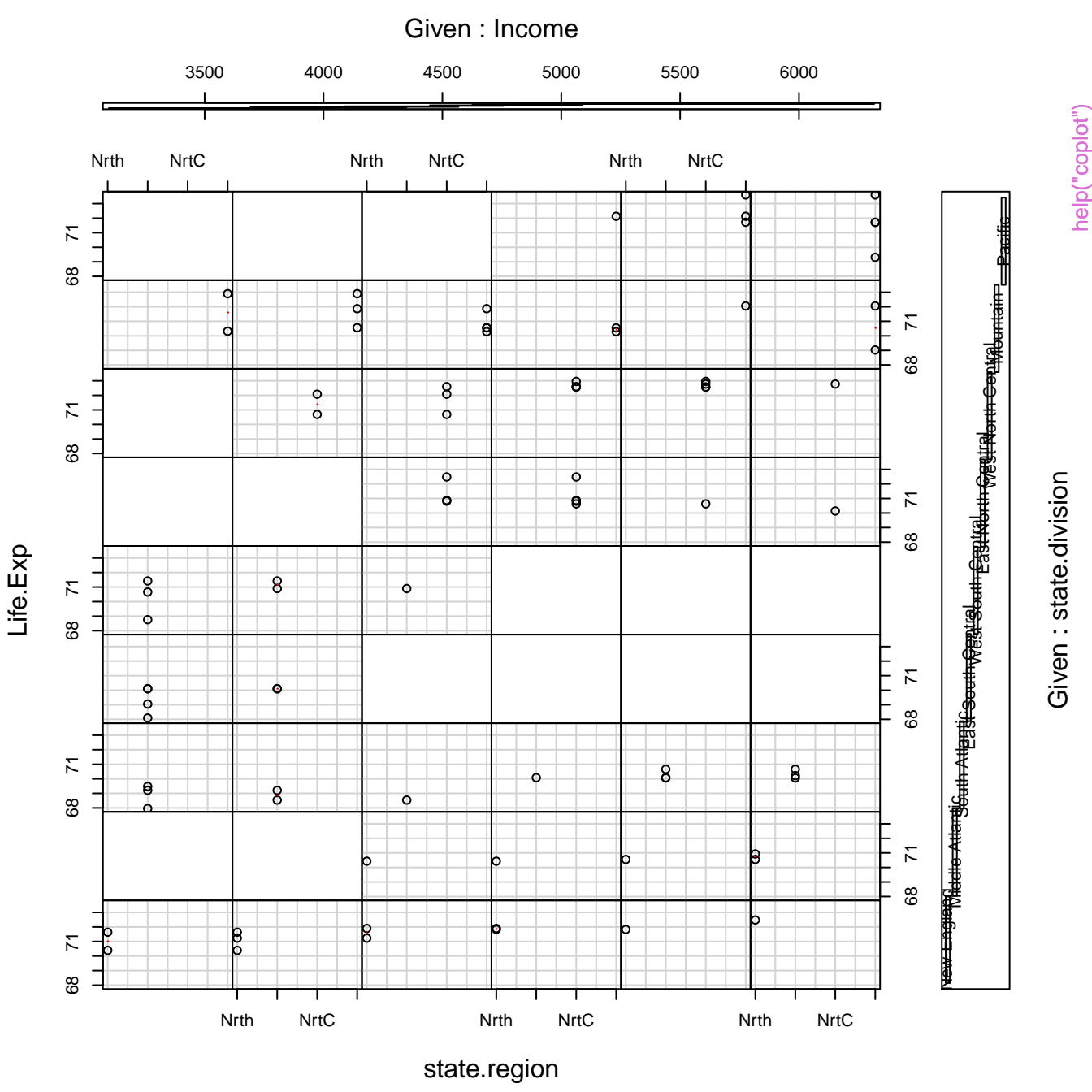


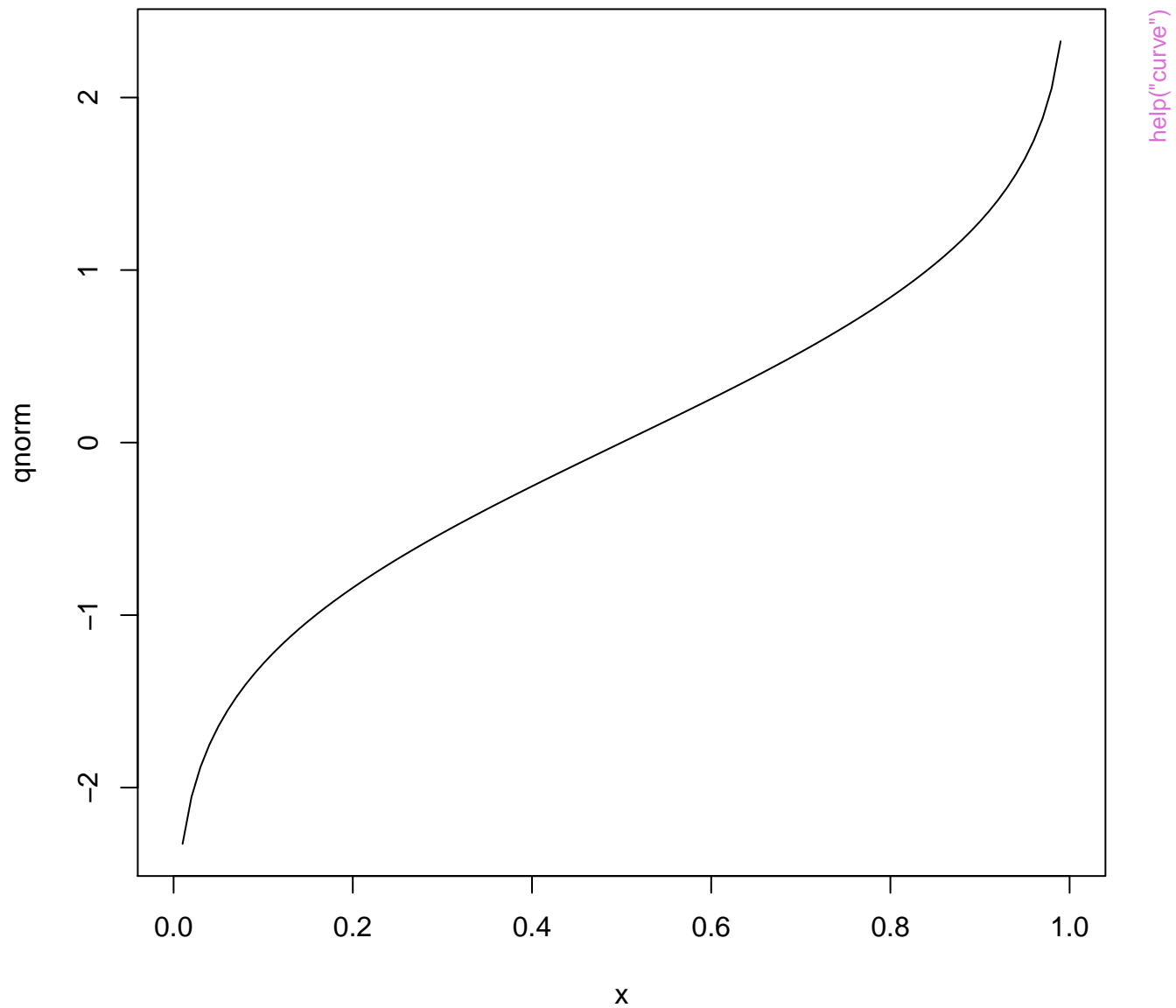
Life.Exp



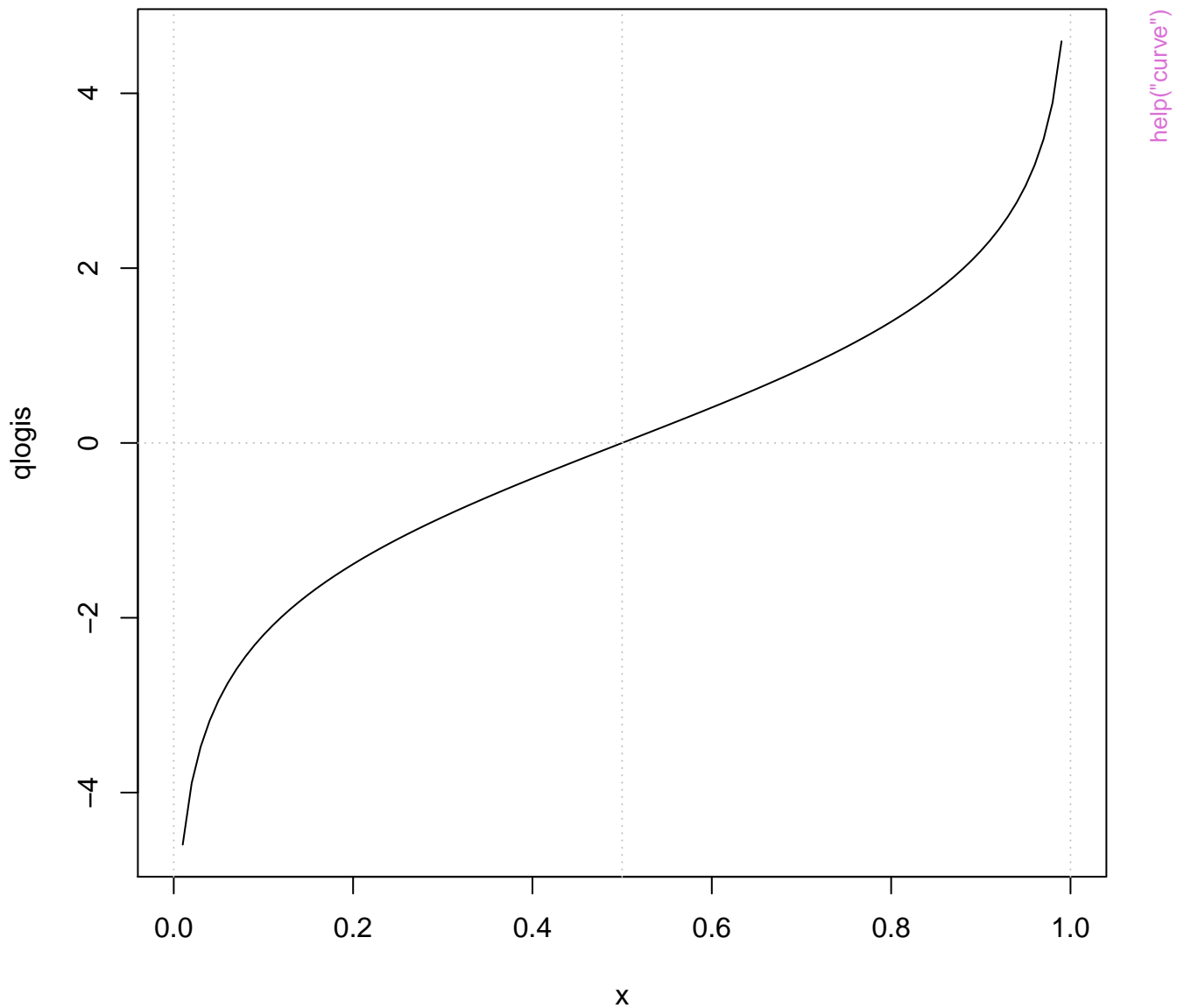
Given : state.region

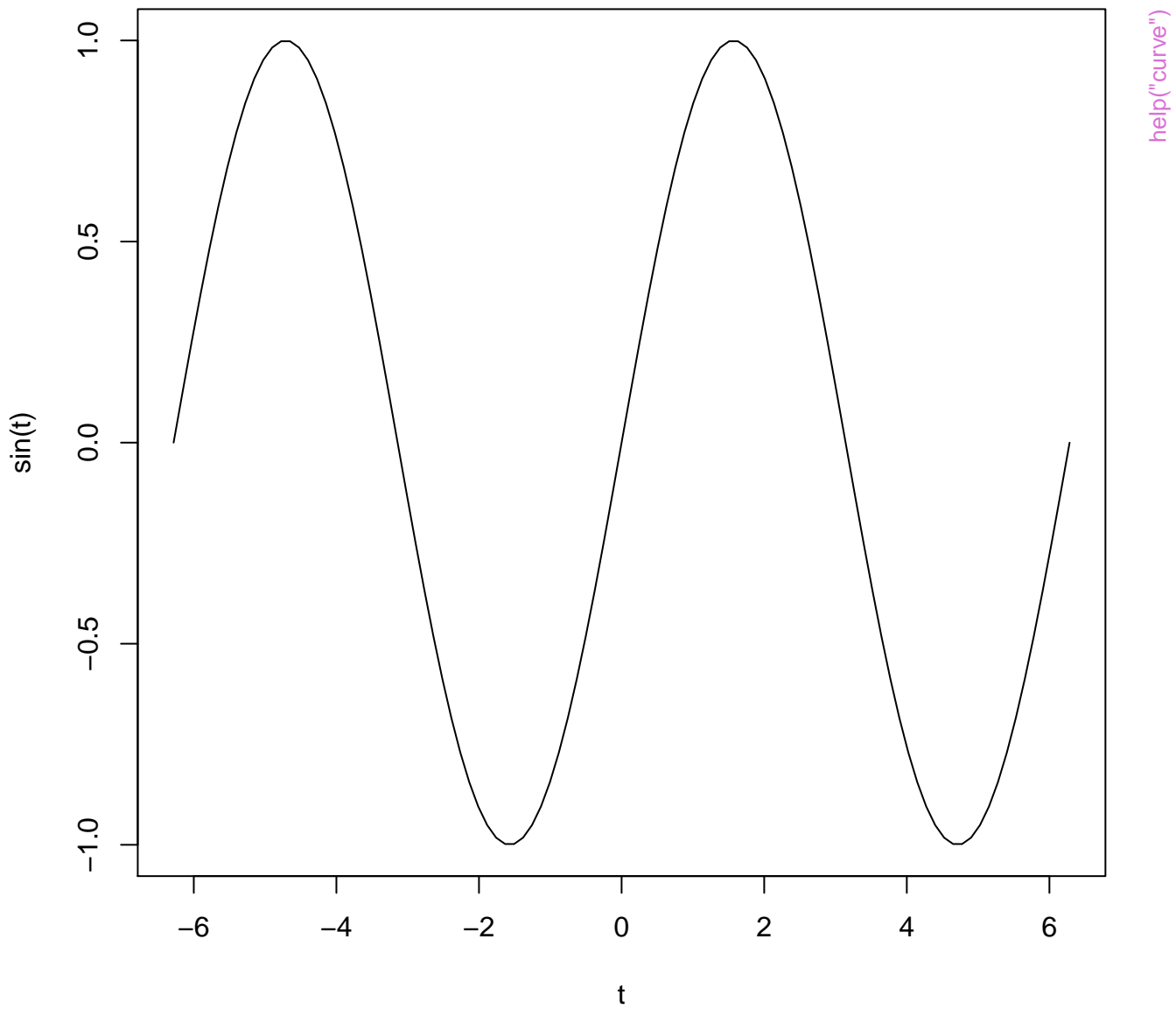
help("coplot")



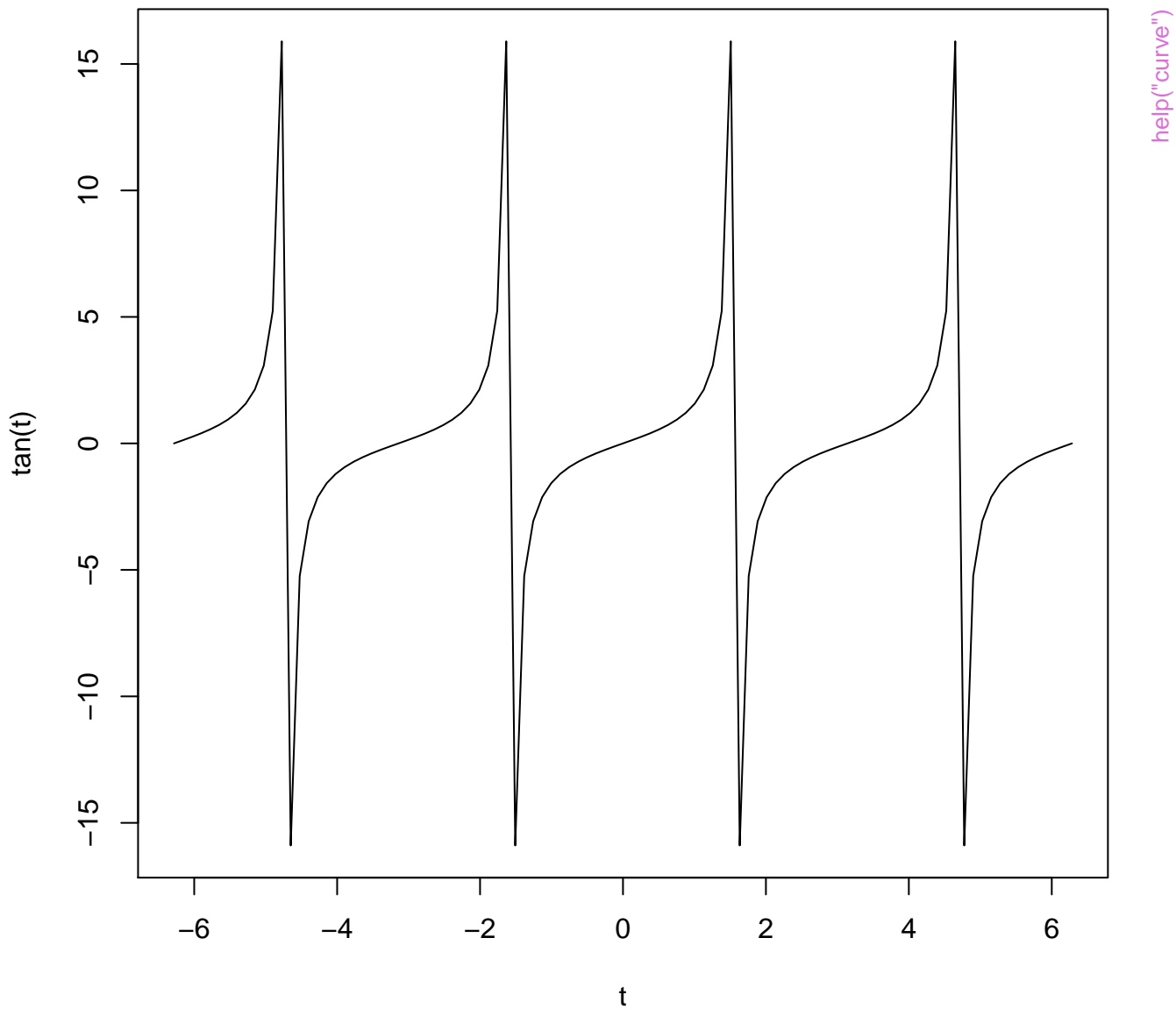


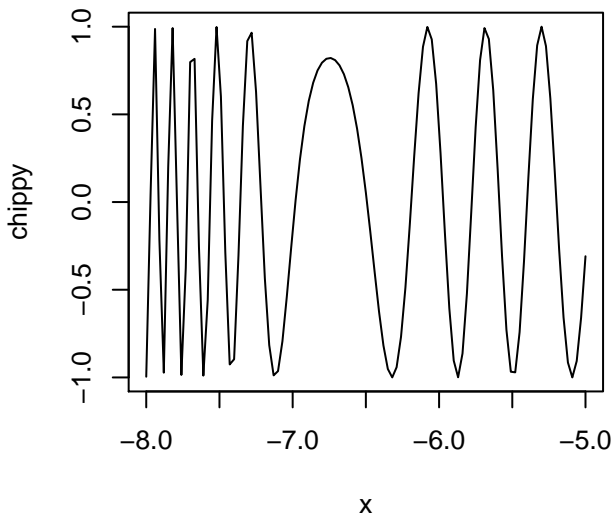
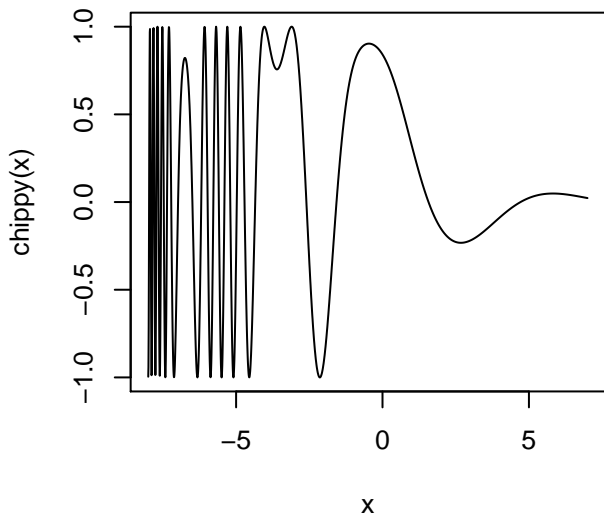
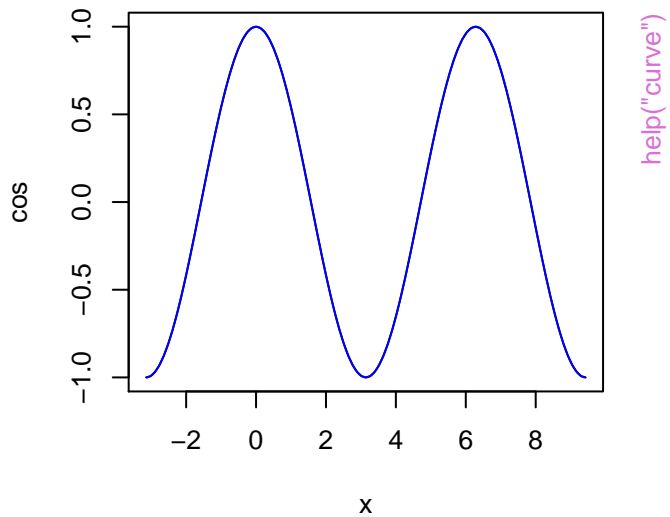
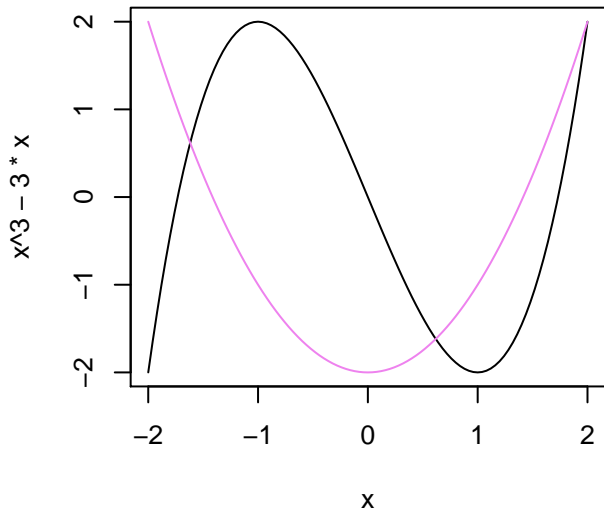
## The Inverse Logit : `qlogis()`



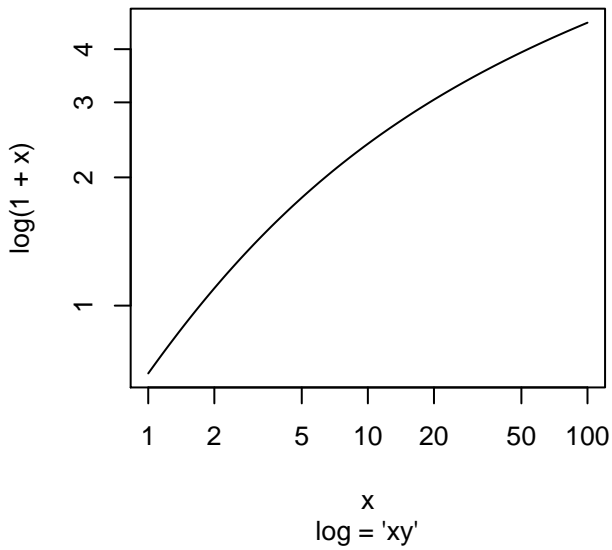
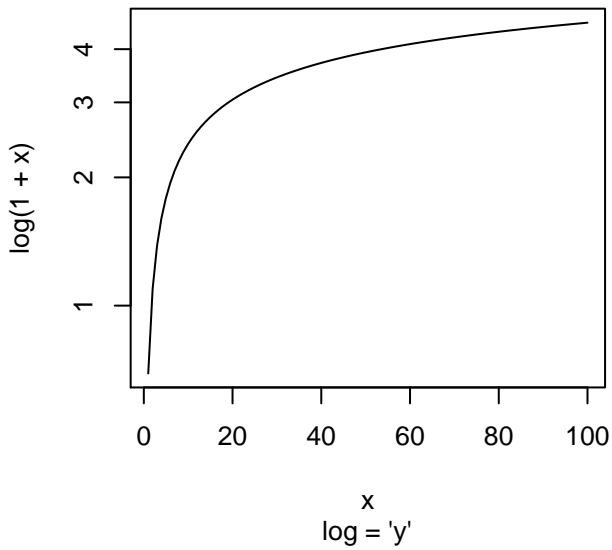
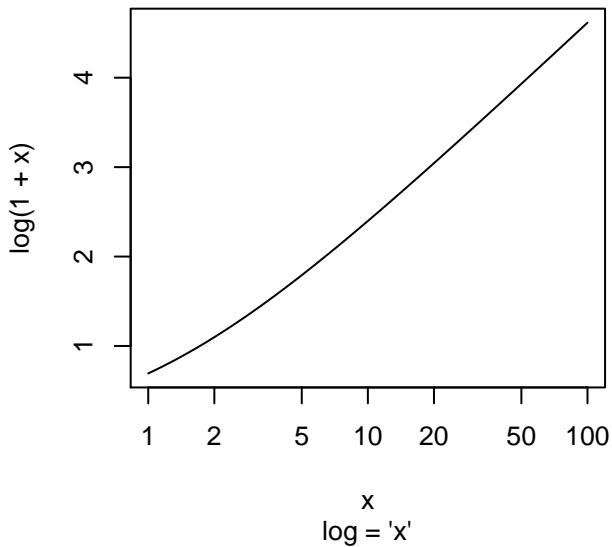
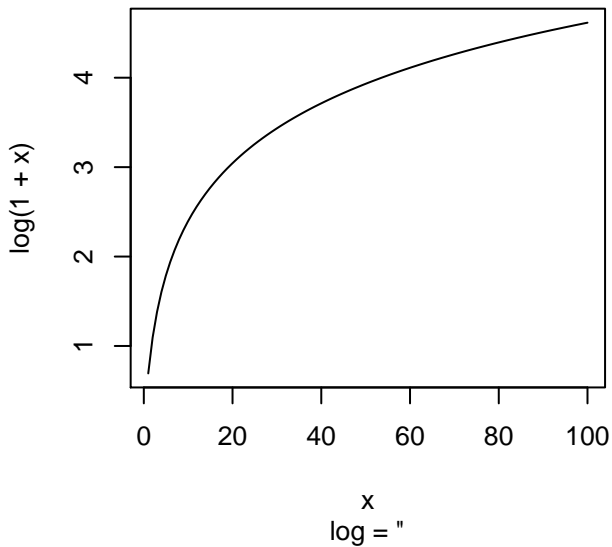


**curve(tan) --> same x-scale as previous plot**









help("curve")

# Death Rates in Virginia – 1940

## Rural Male

70–74

65–69

60–64

55–59

50–54

## Rural Female

70–74

65–69

60–64

55–59

50–54

## Urban Male

70–74

65–69

60–64

55–59

50–54

## Urban Female

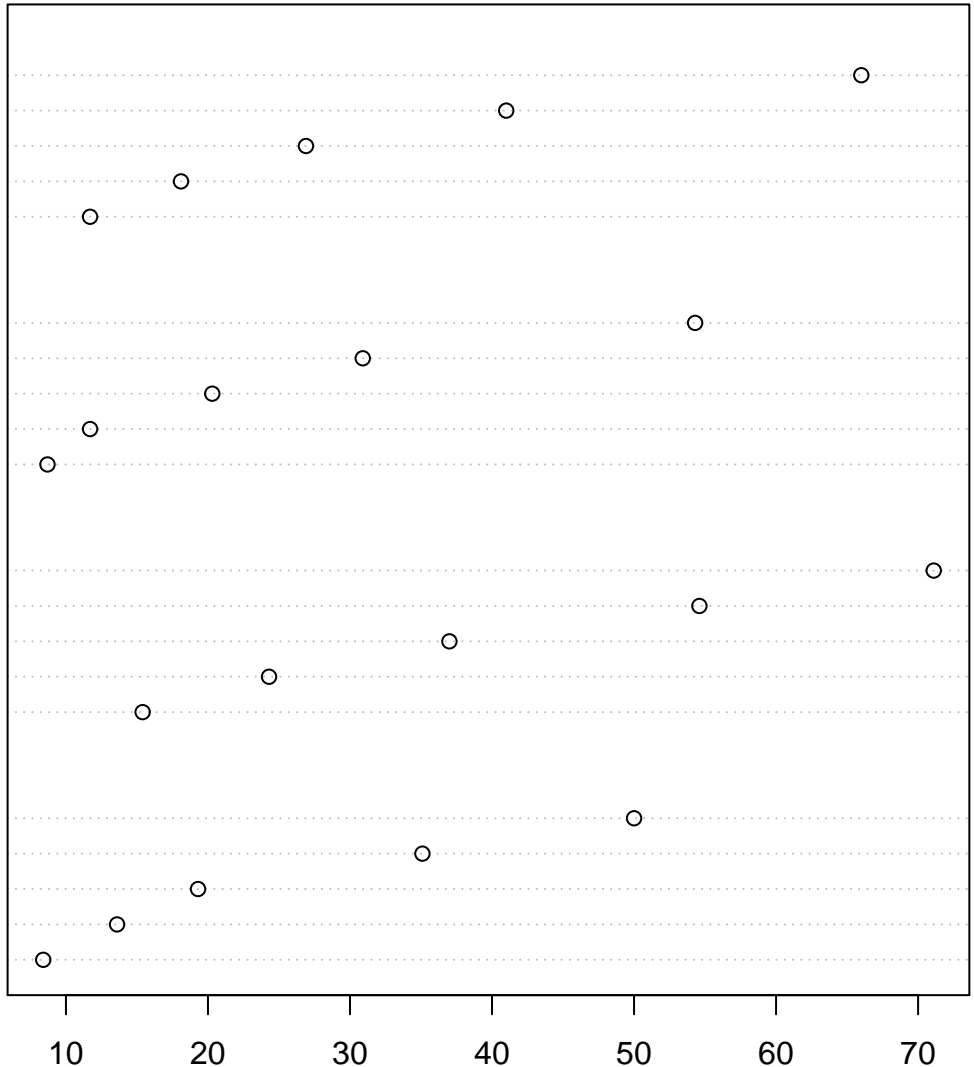
70–74

65–69

60–64

55–59

50–54



# Death Rates in Virginia – 1940

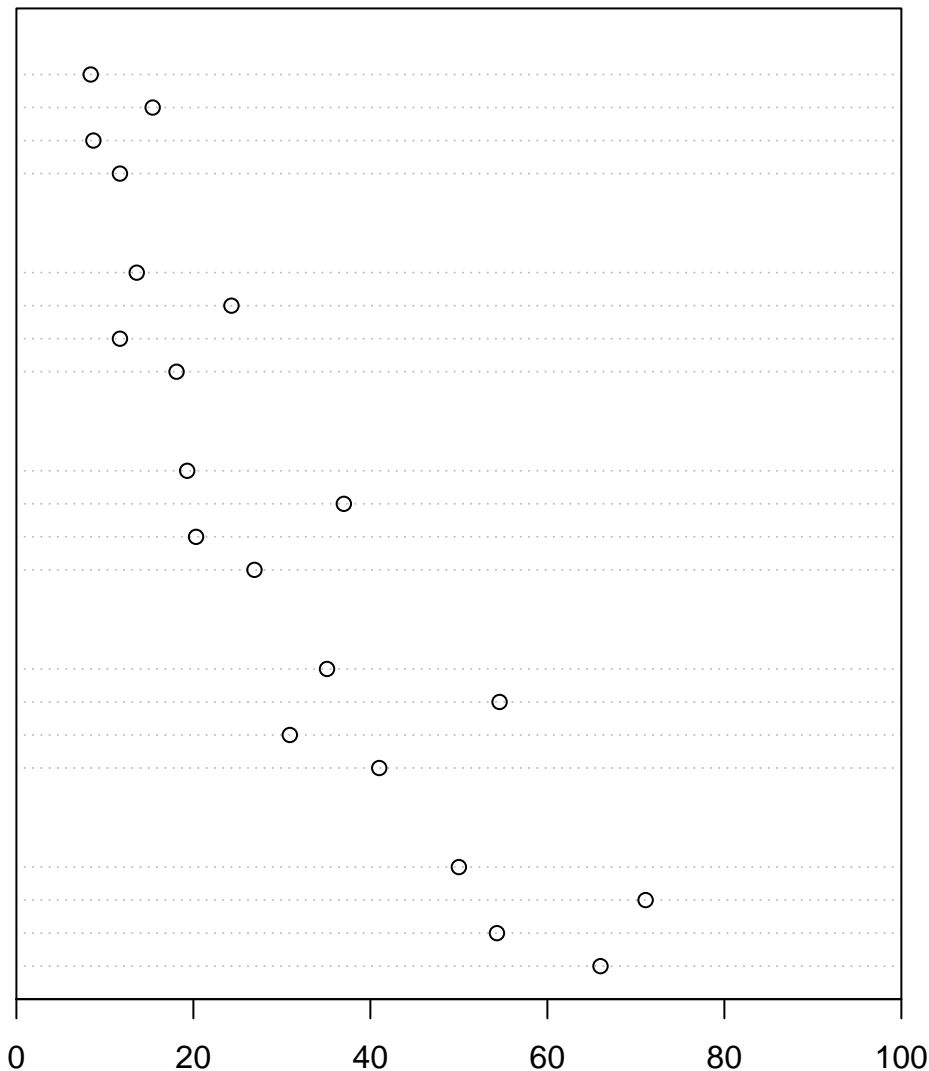
50–54  
Urban Female  
Urban Male  
Rural Female  
Rural Male

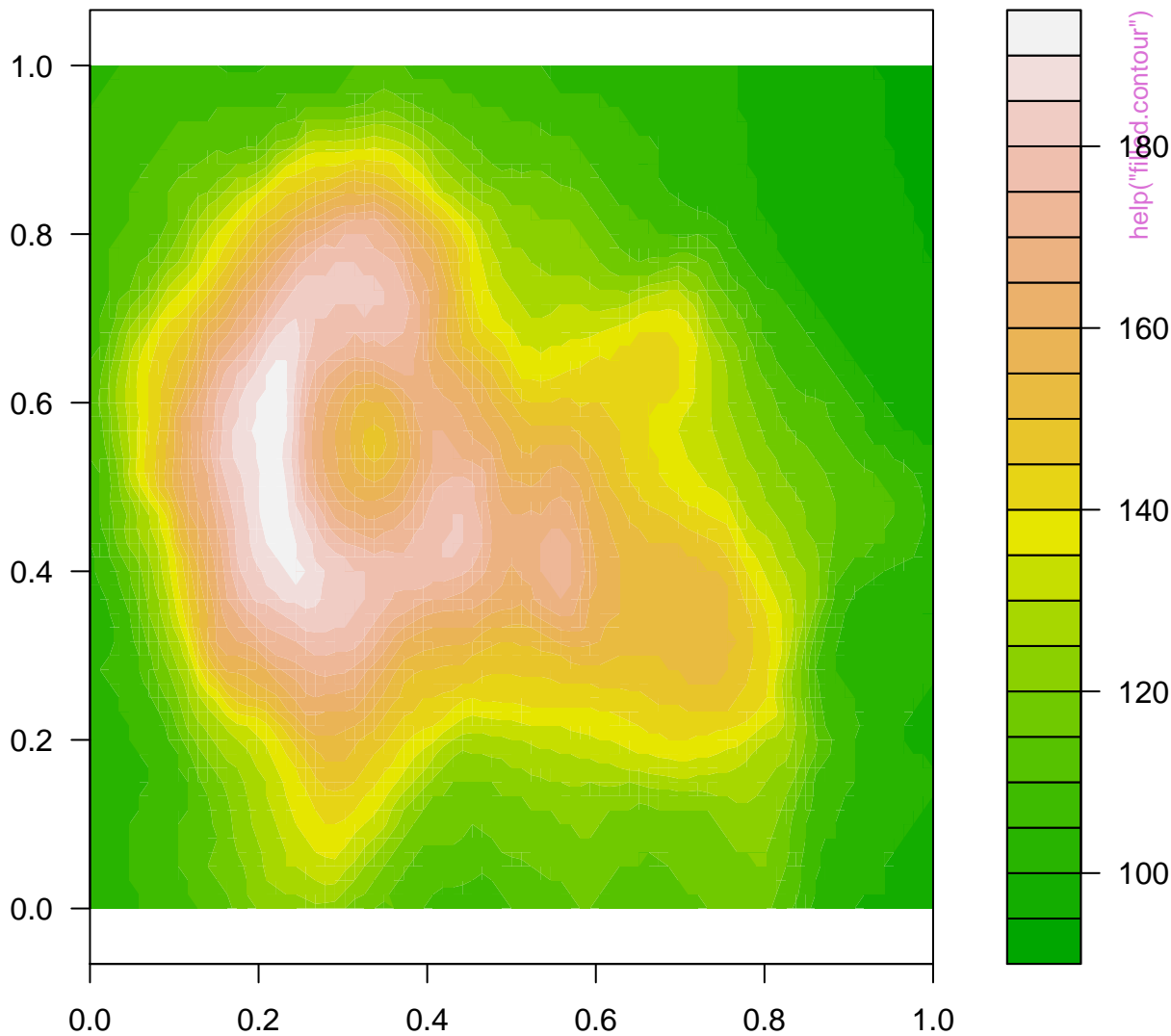
55–59  
Urban Female  
Urban Male  
Rural Female  
Rural Male

60–64  
Urban Female  
Urban Male  
Rural Female  
Rural Male

65–69  
Urban Female  
Urban Male  
Rural Female  
Rural Male

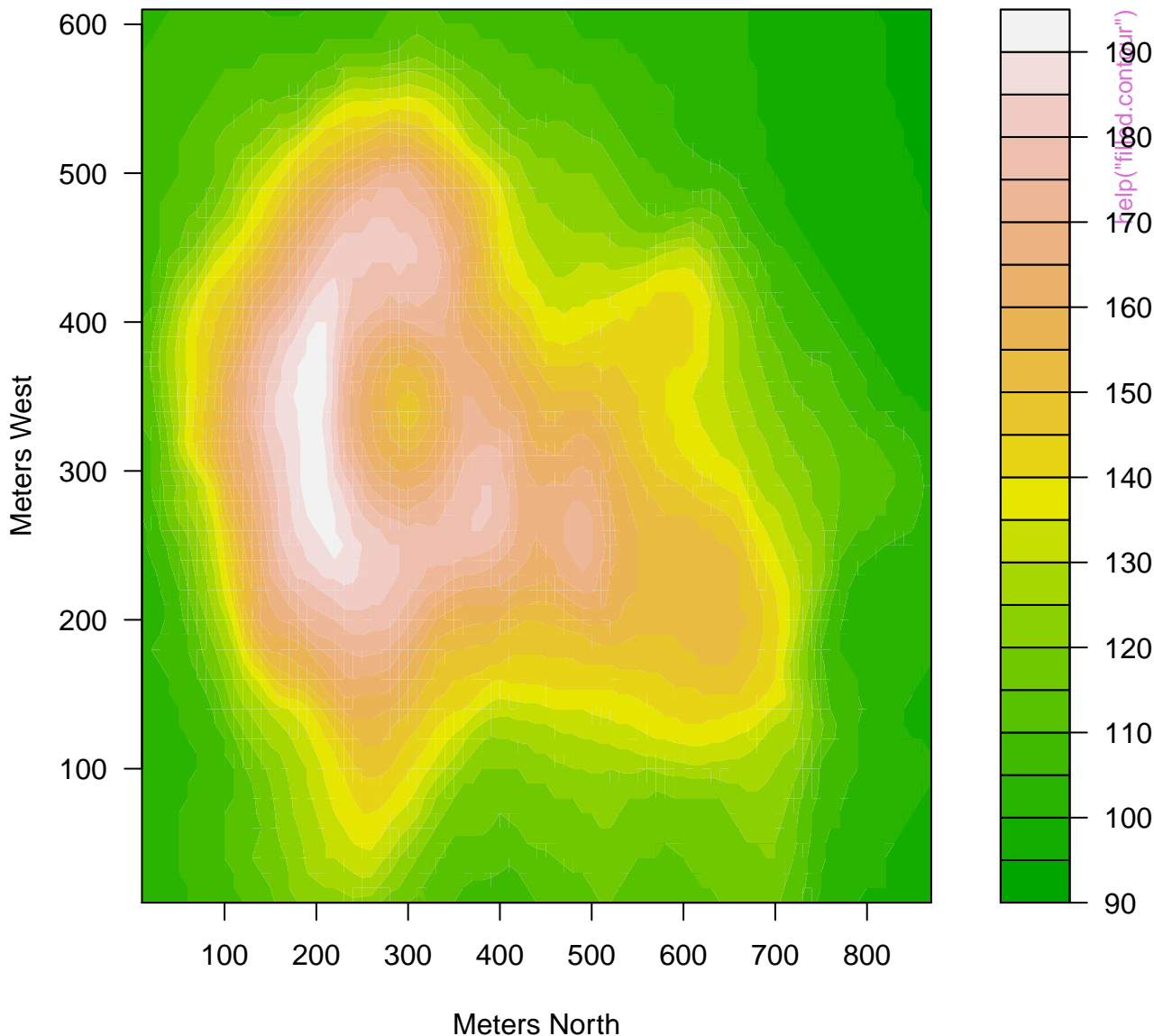
70–74  
Urban Female  
Urban Male  
Rural Female  
Rural Male

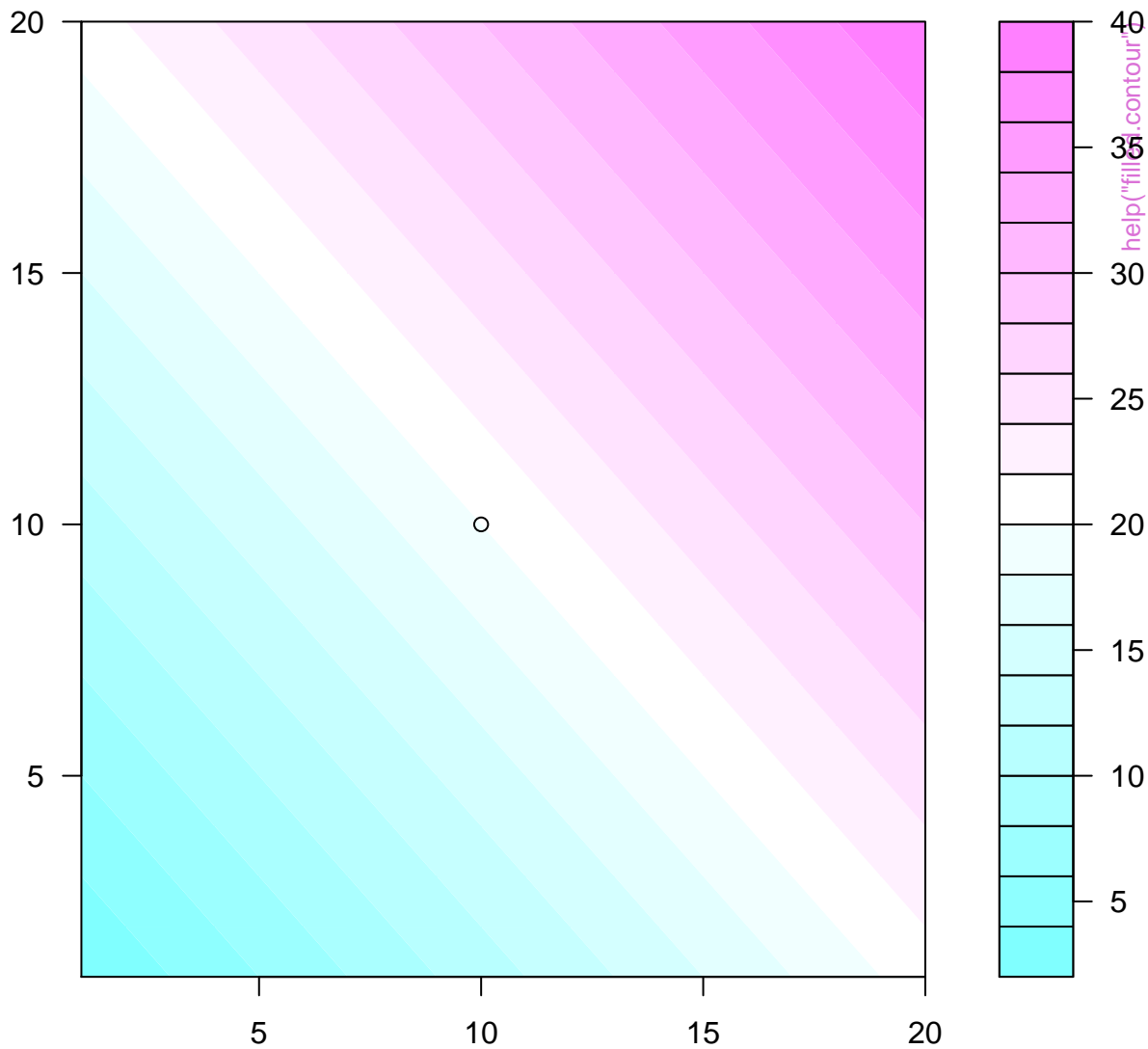


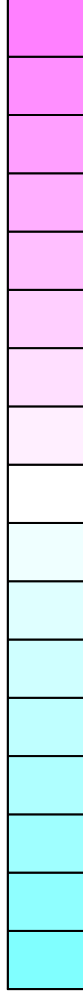
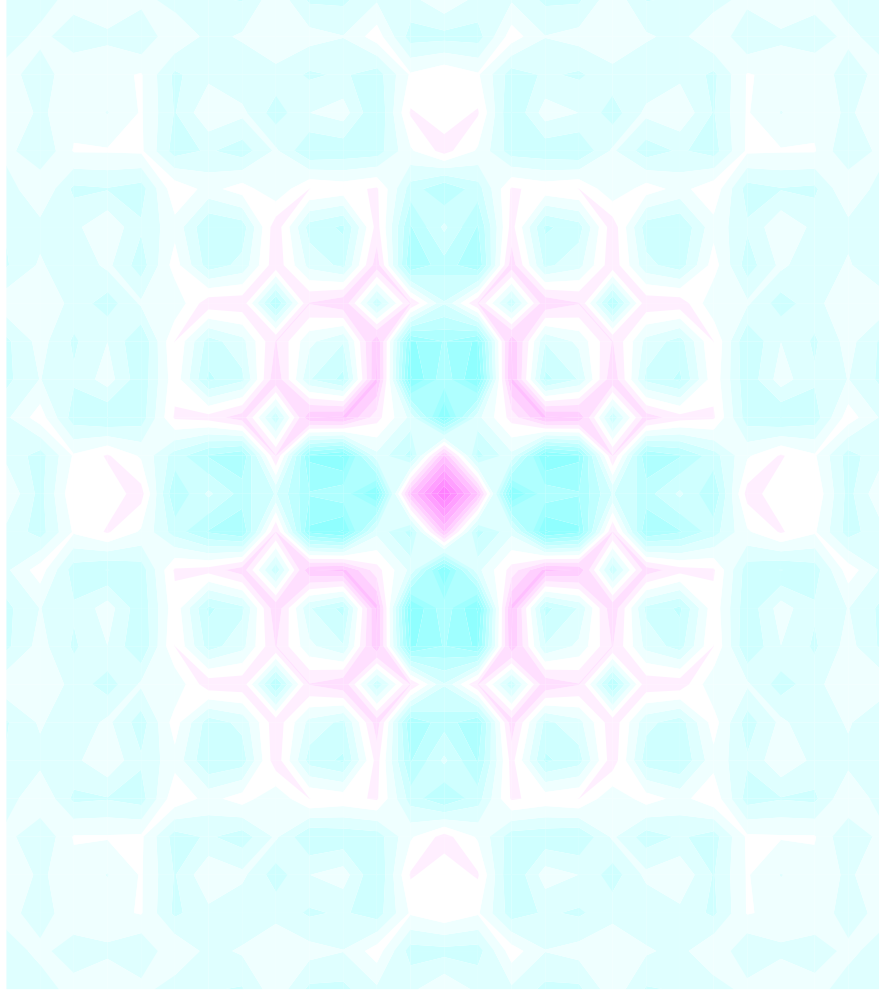


# The Topography of Maunga Whau

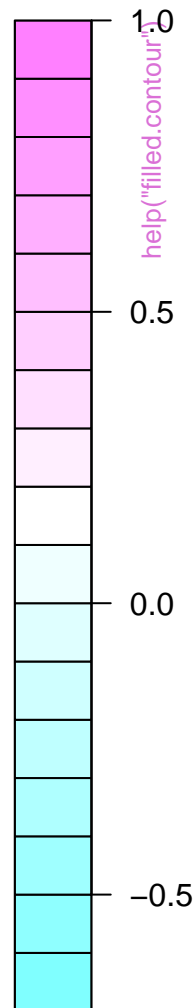
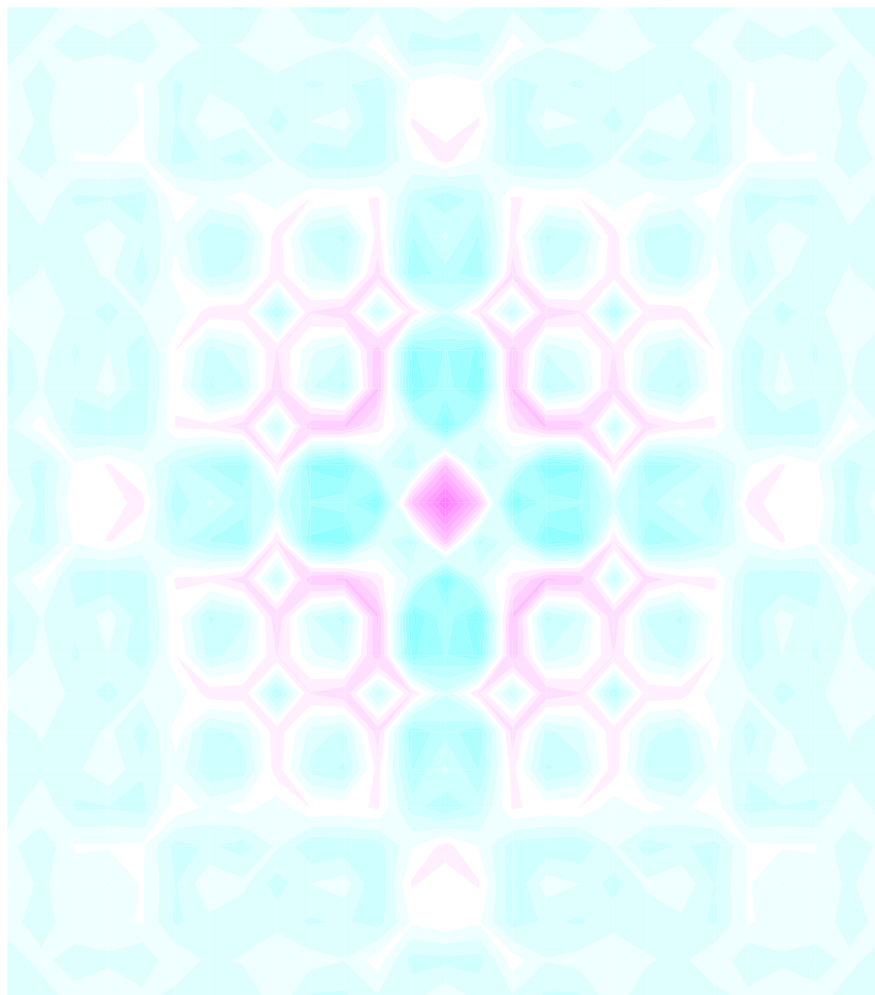
Height  
(meters)







help("filled.contour")





Sex: Male

1198

1493

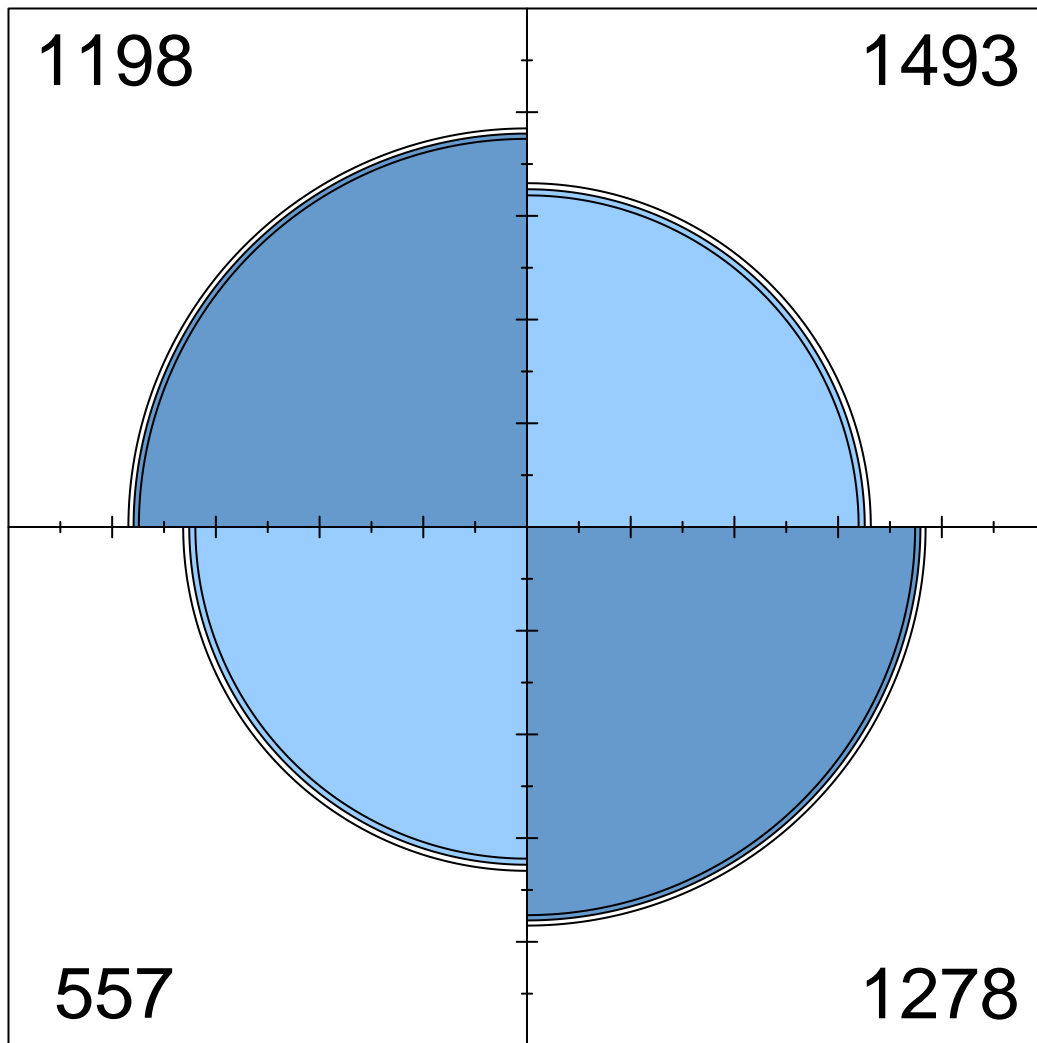
Admit?: Yes

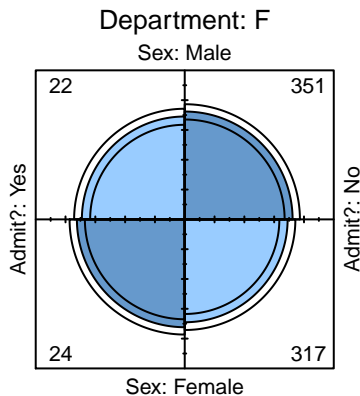
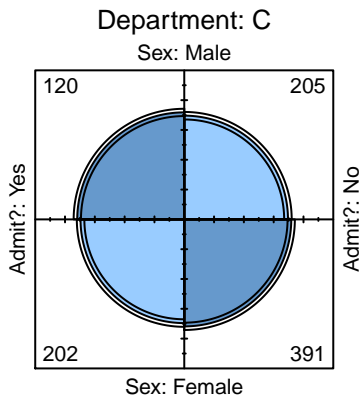
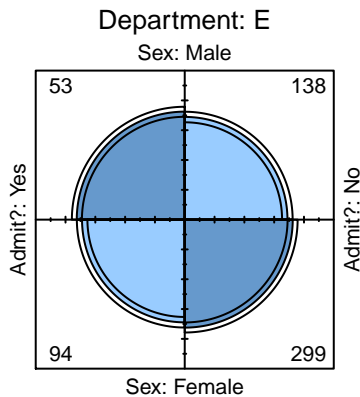
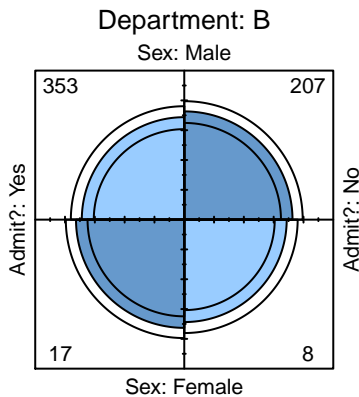
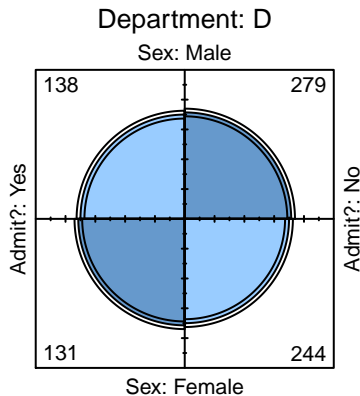
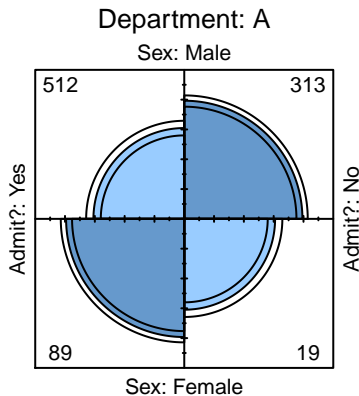
Admit?: No

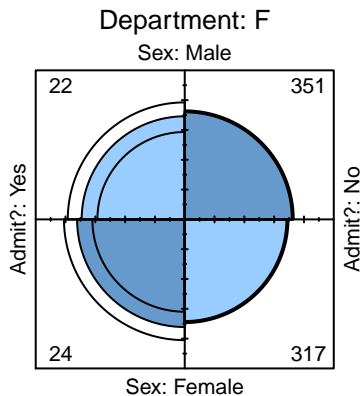
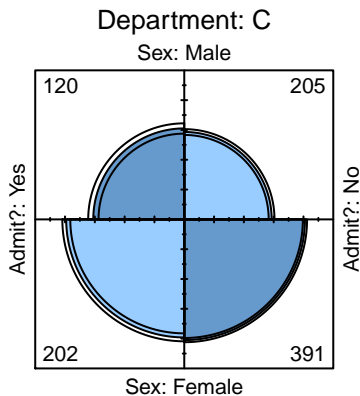
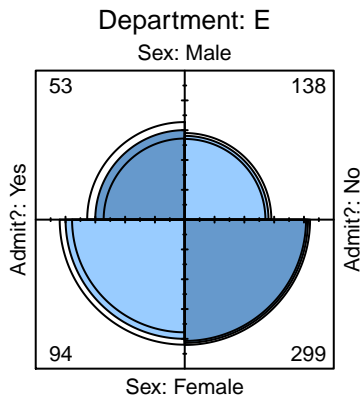
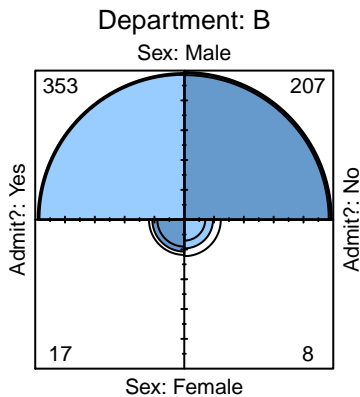
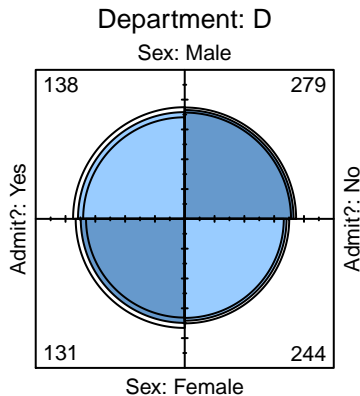
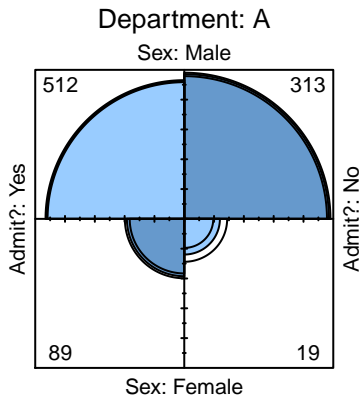
557

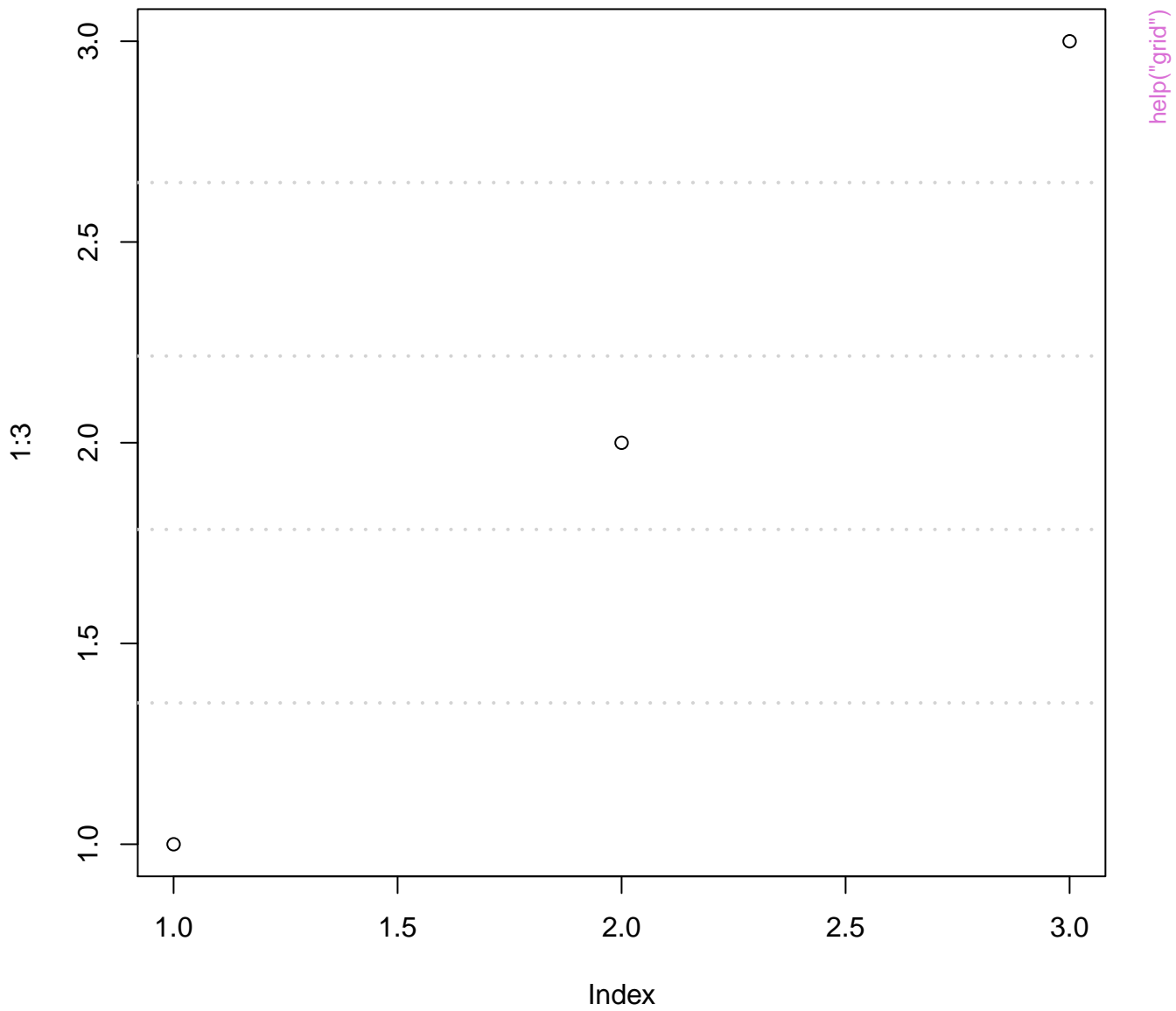
1278

Sex: Female

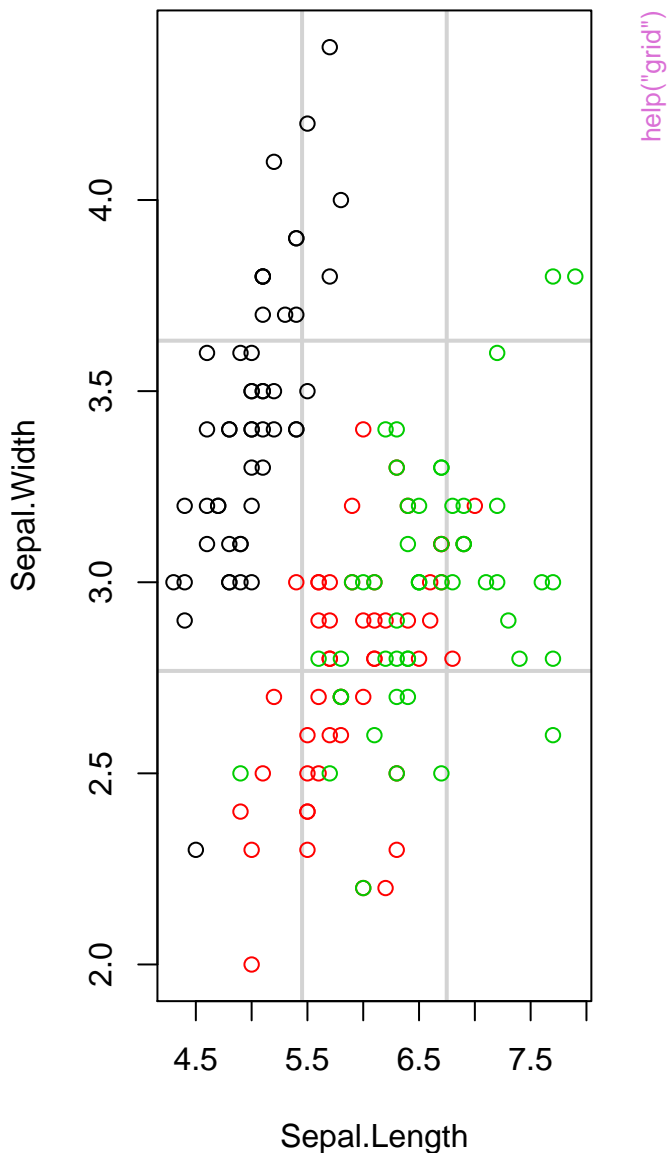
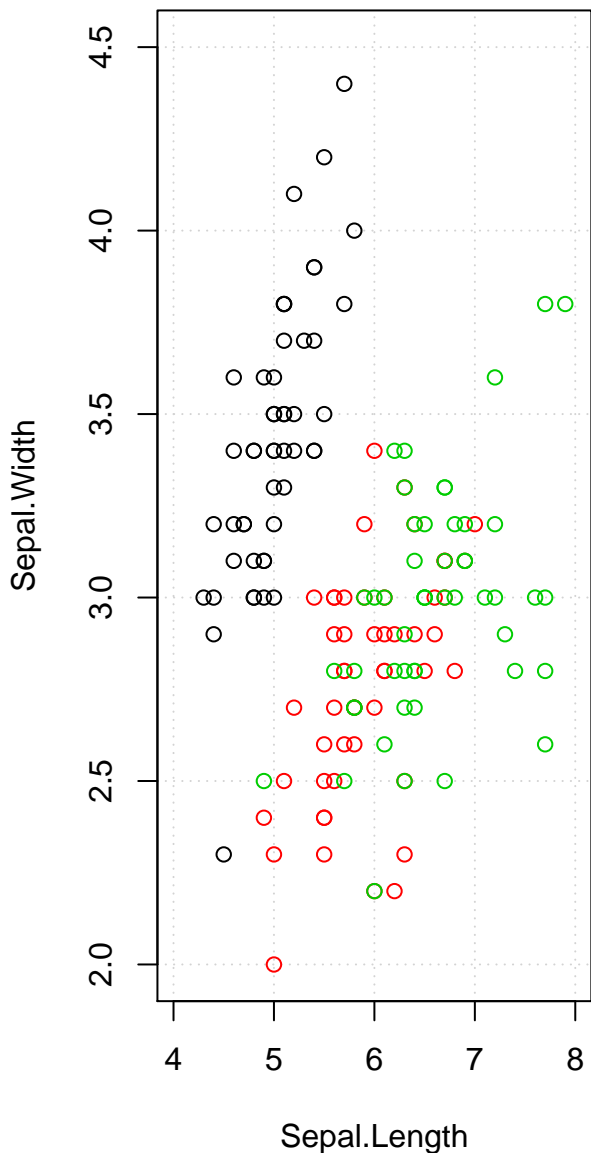




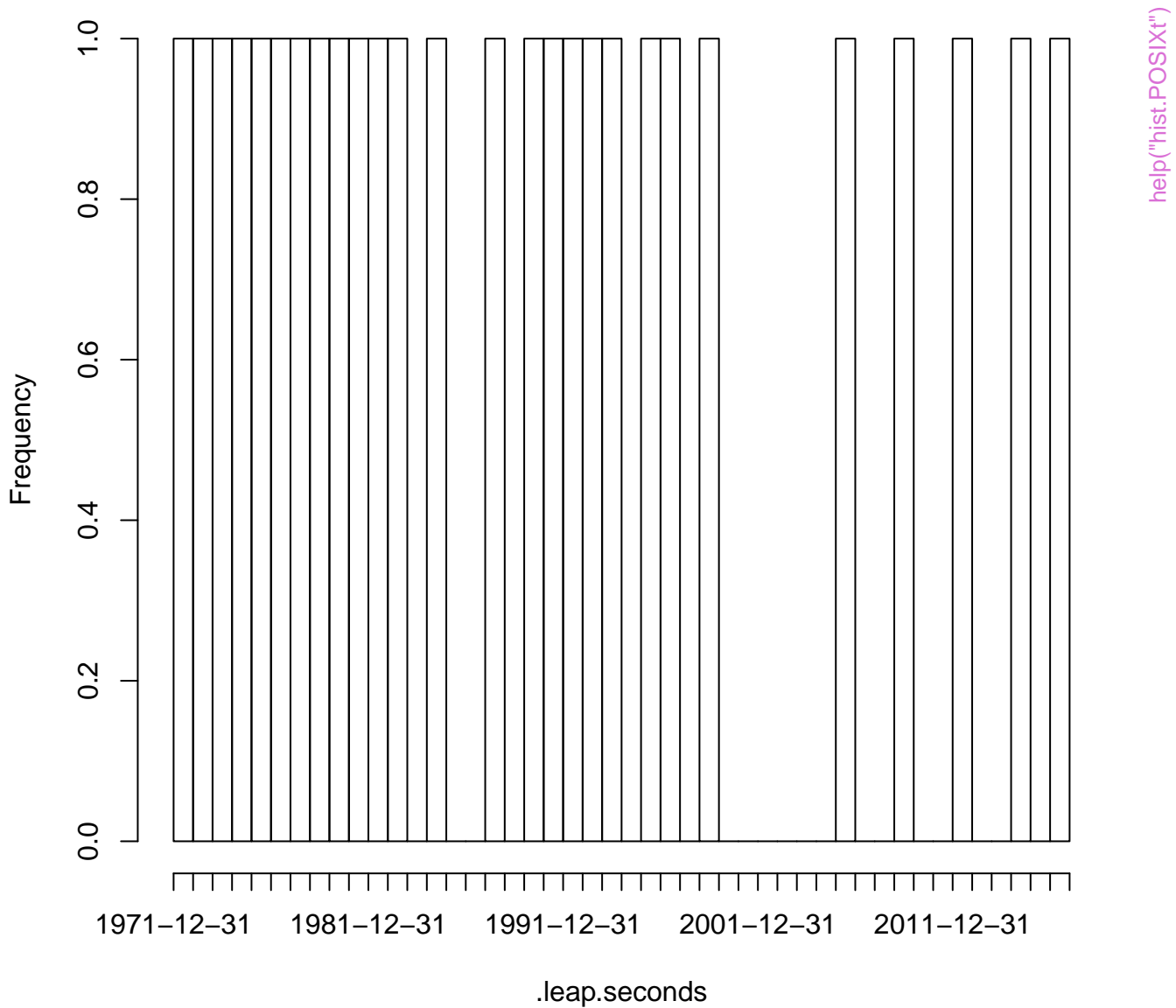




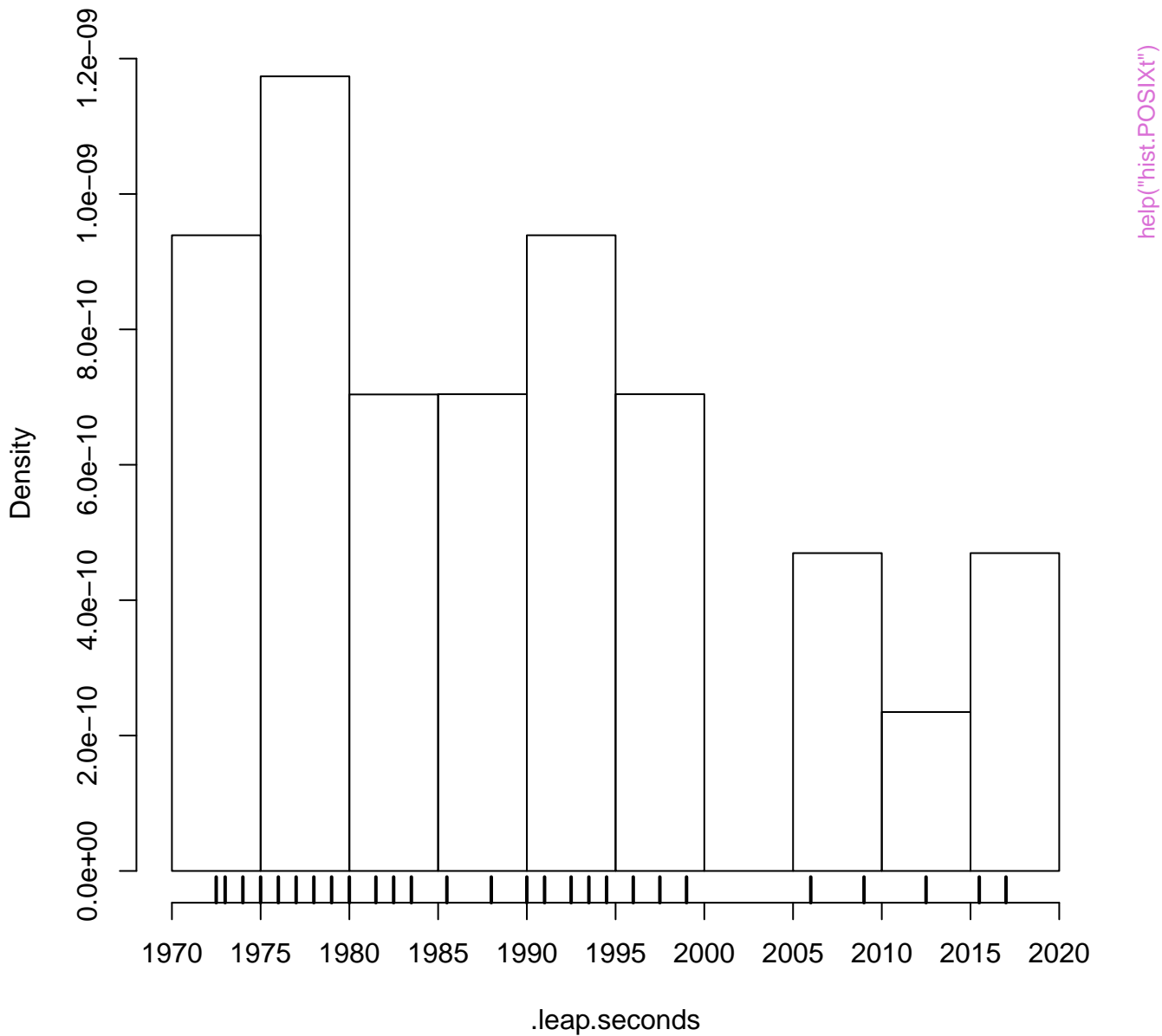
`with(iris, plot(...., panel.first = grid(), ... panel.first = grid(3, lty = 1, lwd = 2))`



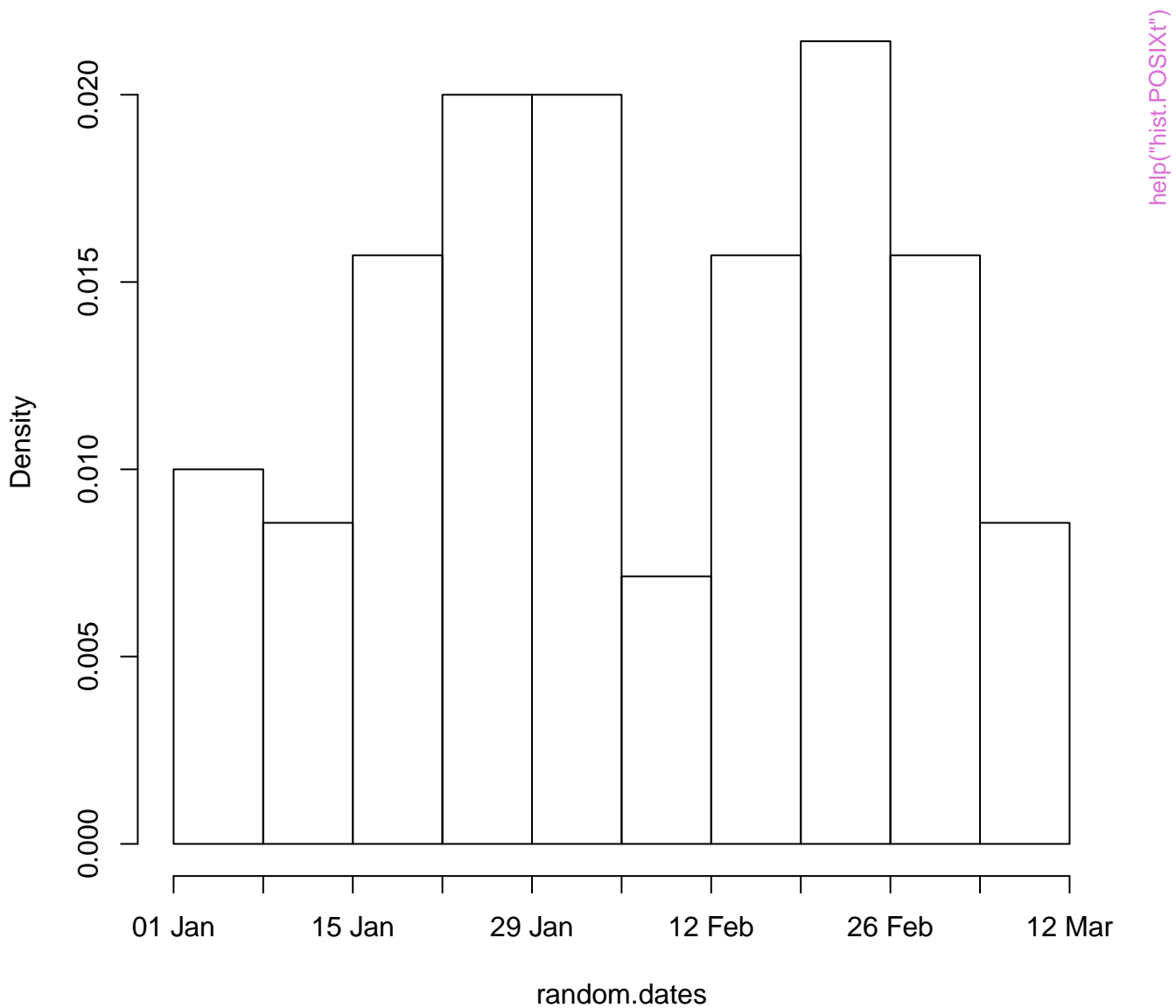
Histogram of .leap.seconds



Histogram of .leap.seconds

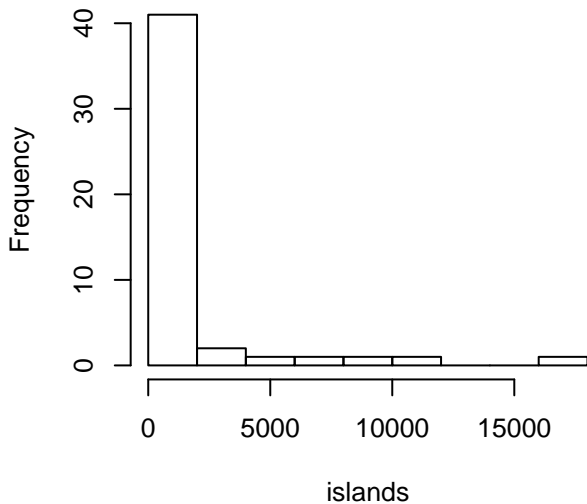


Histogram of random.dates

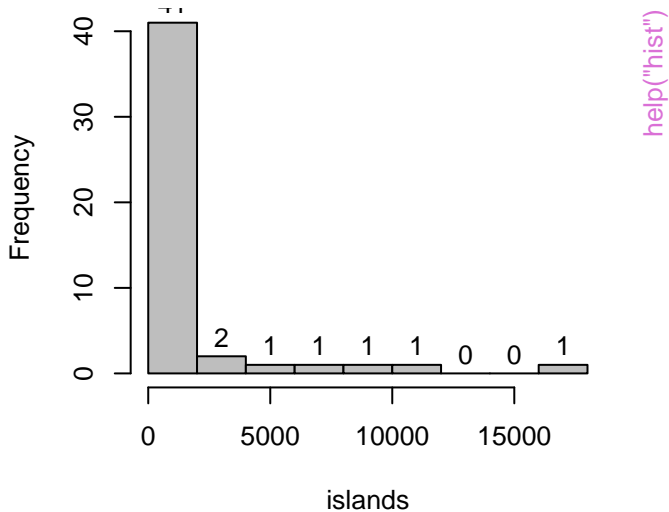




### Histogram of islands

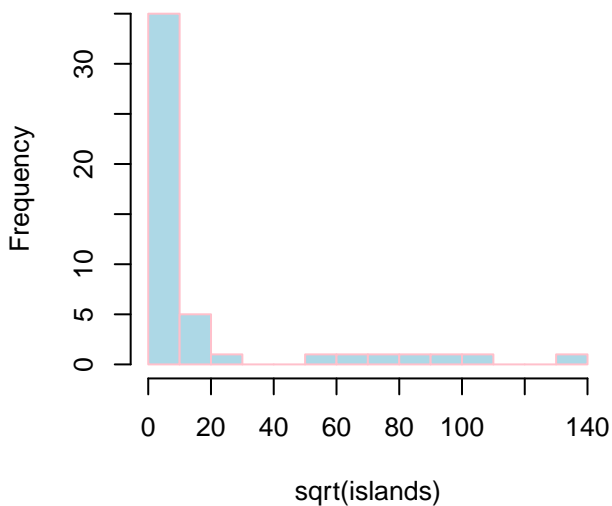


### Histogram of islands

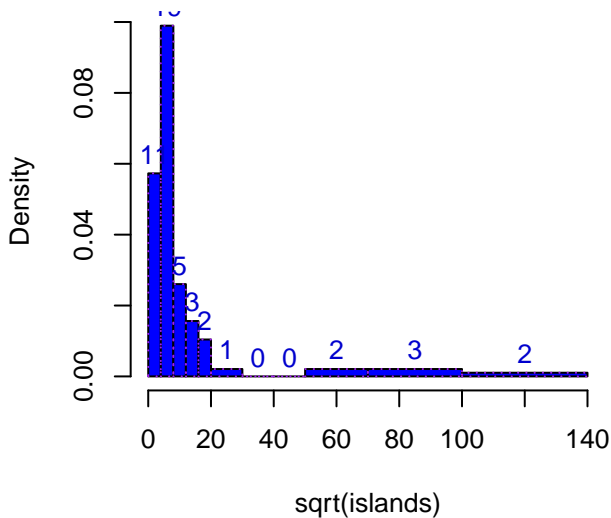


help("hist")

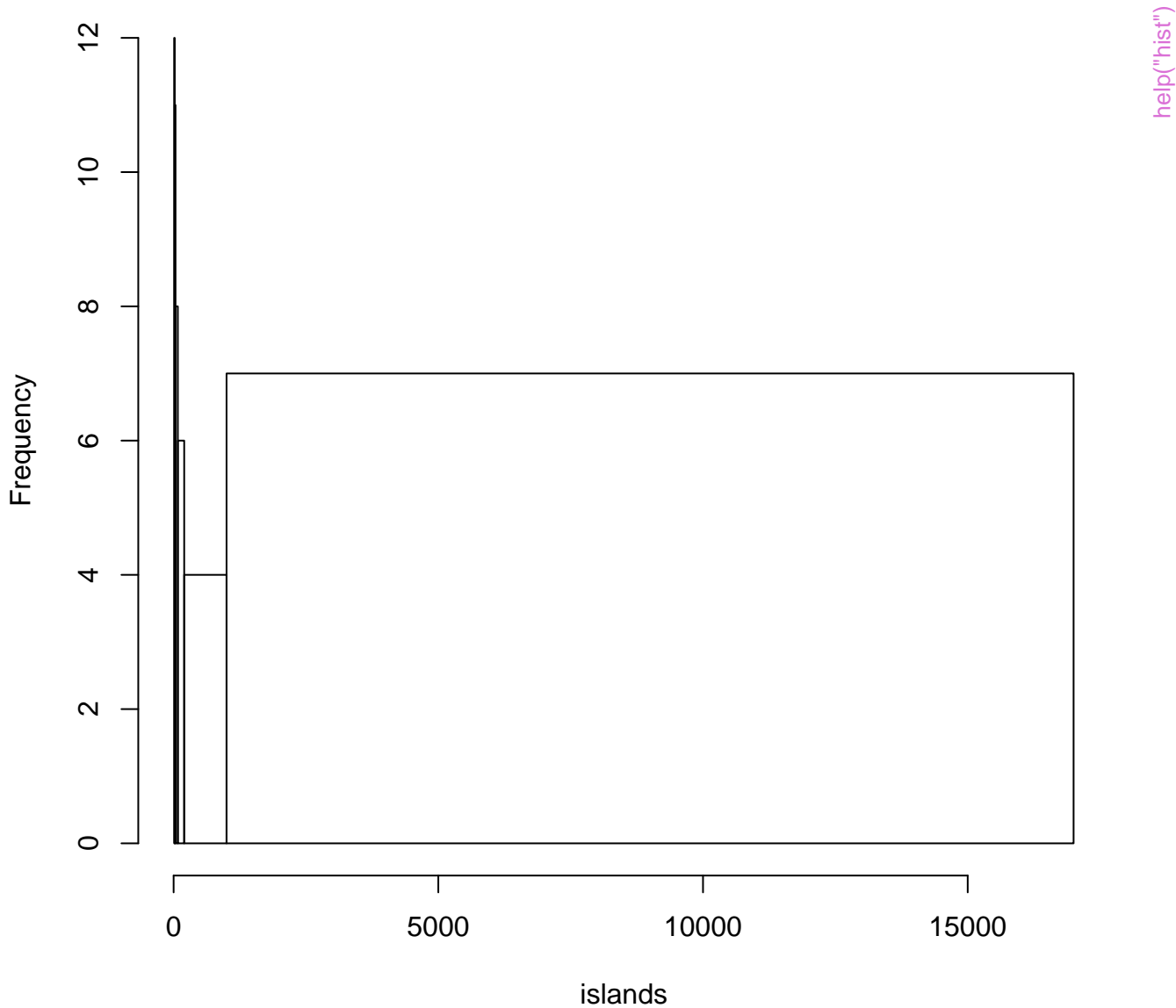
### Histogram of sqrt(islands)

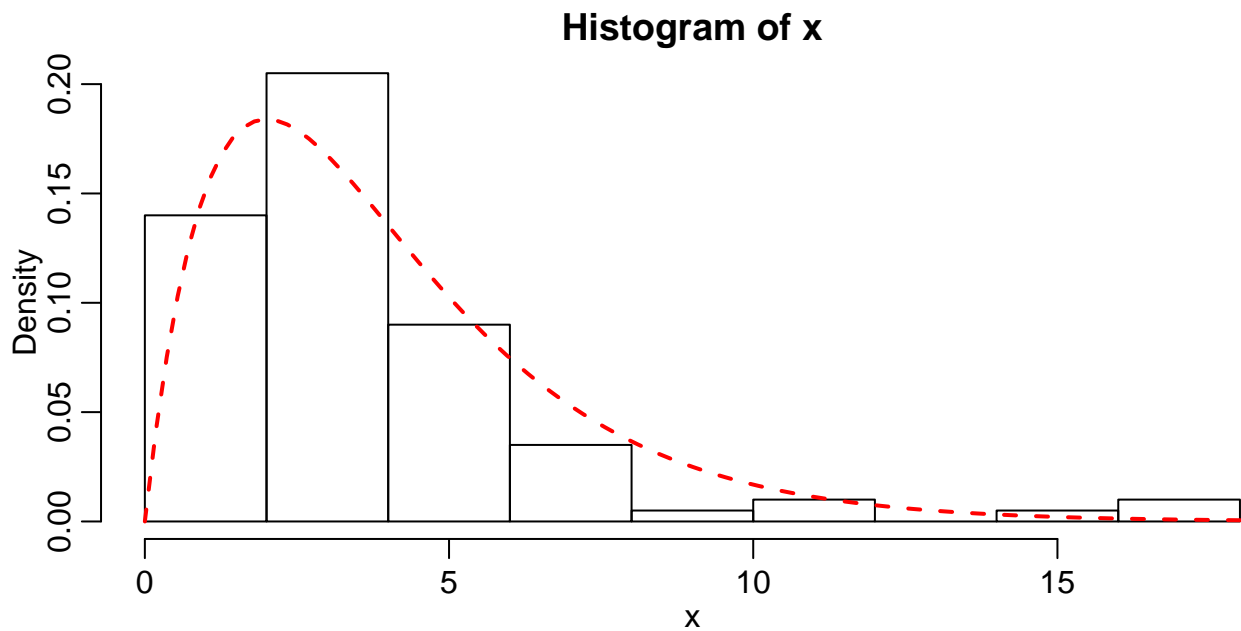
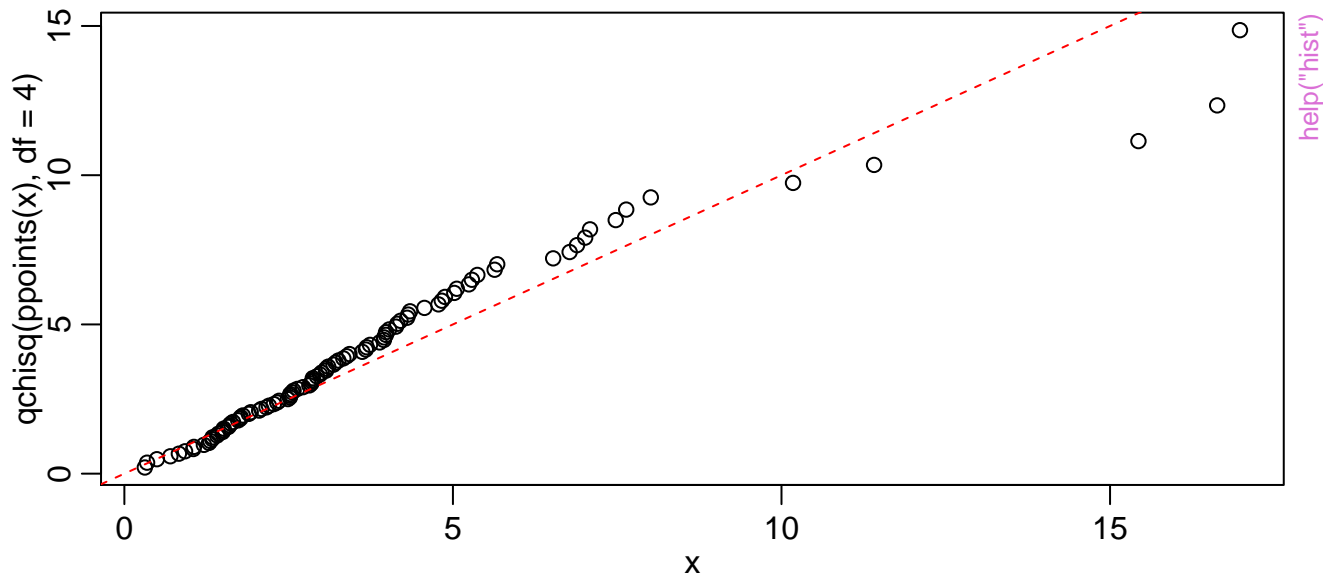


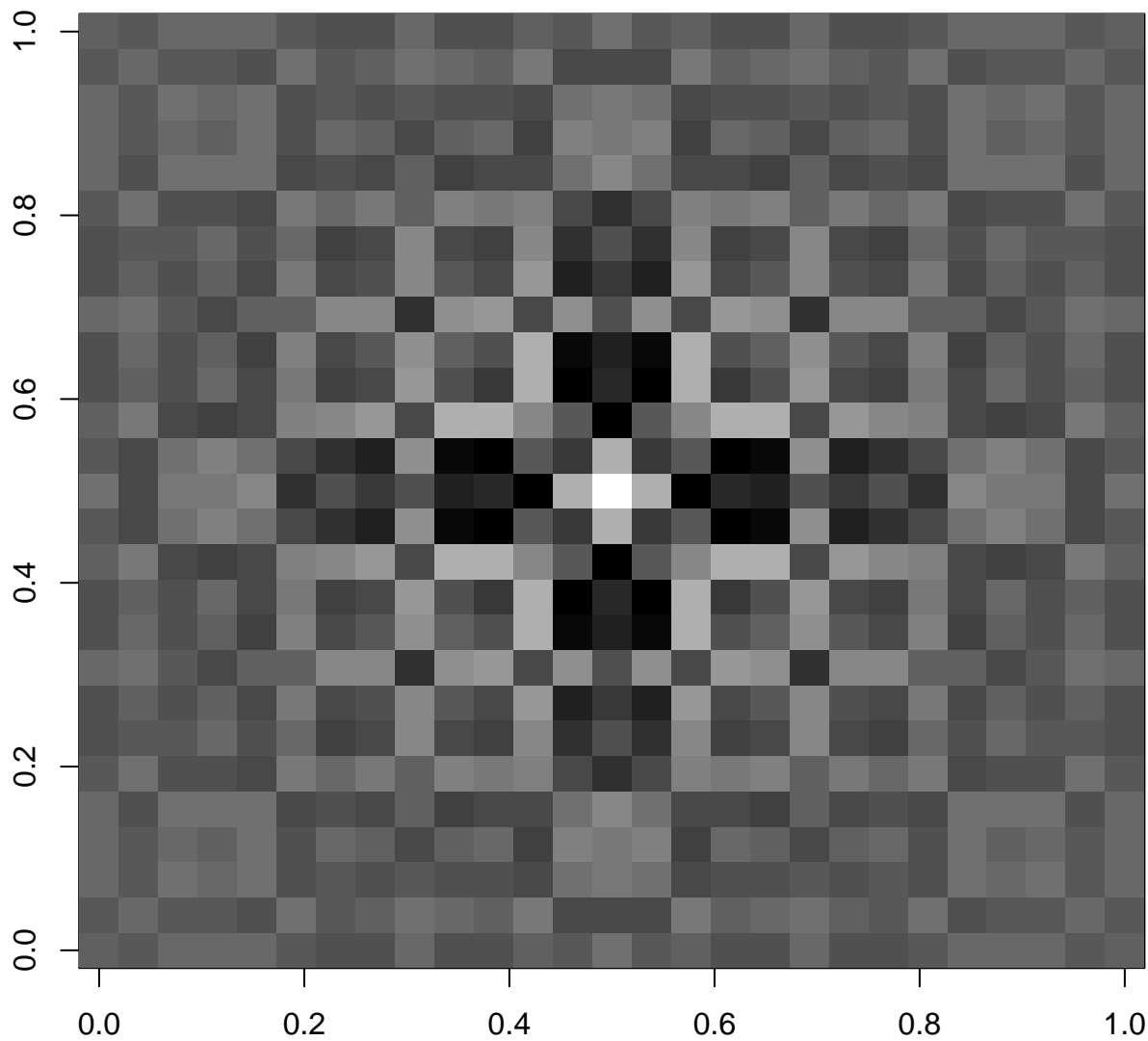
### Histogram of sqrt(islands)



## WRONG histogram

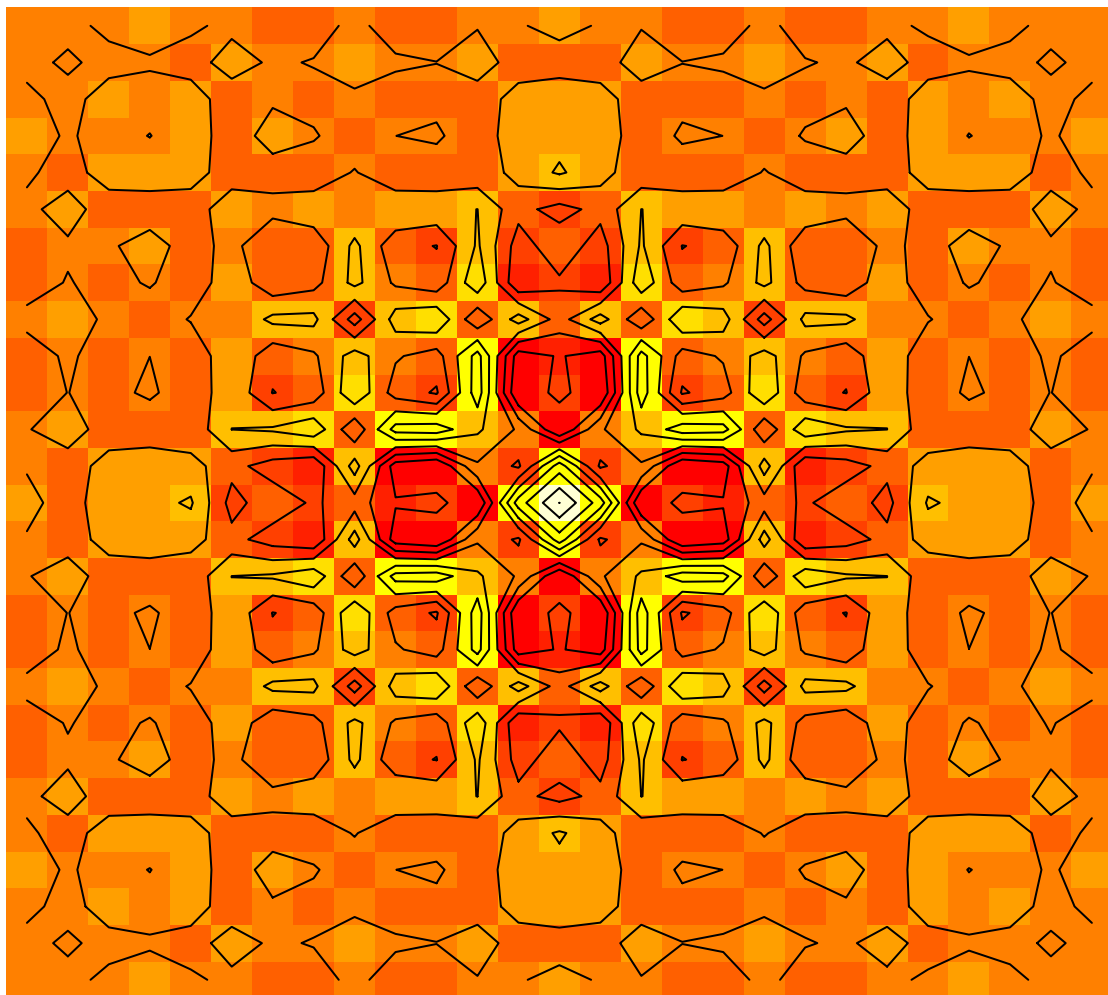






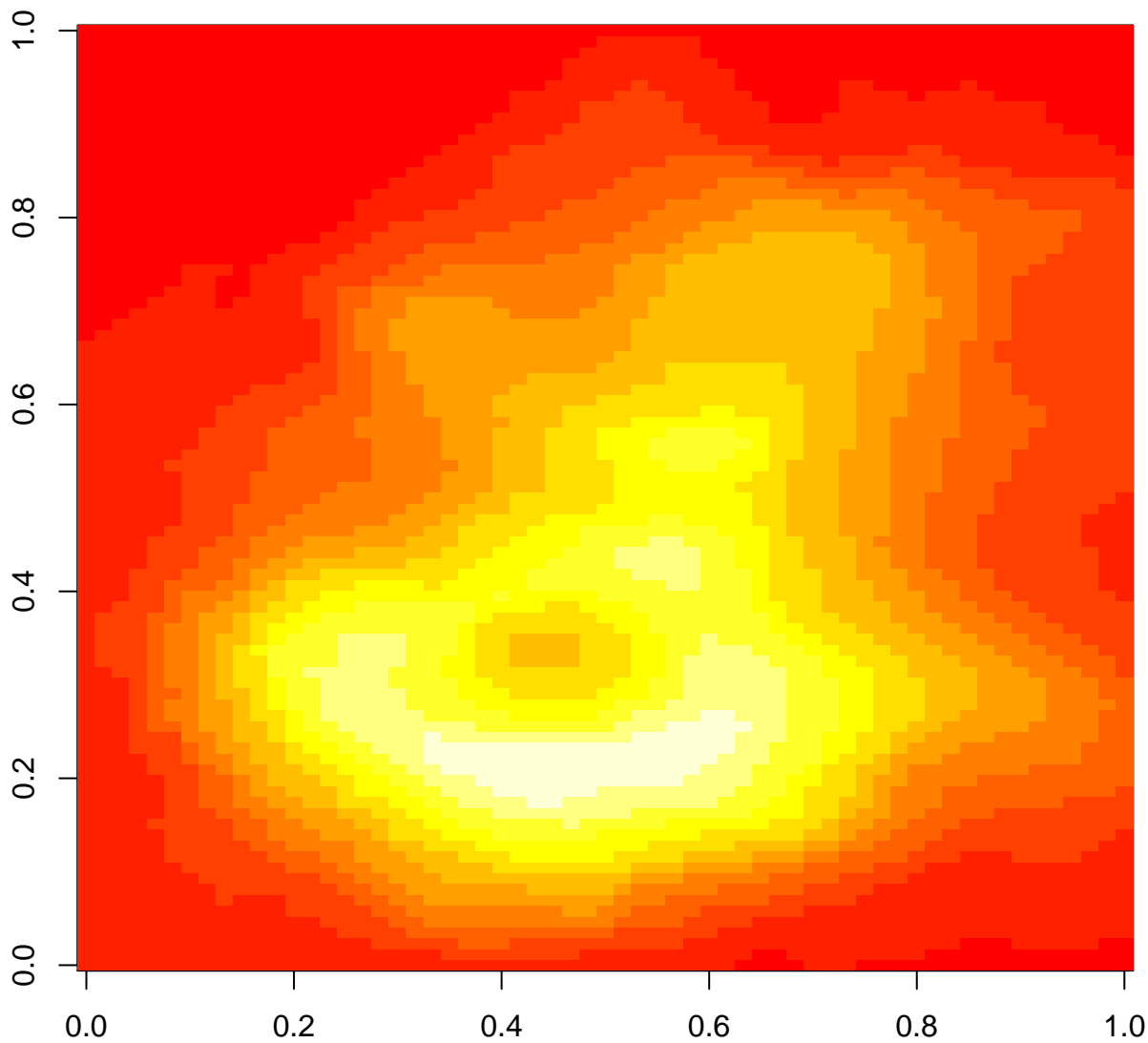
help("image")

Math can be beautiful ...



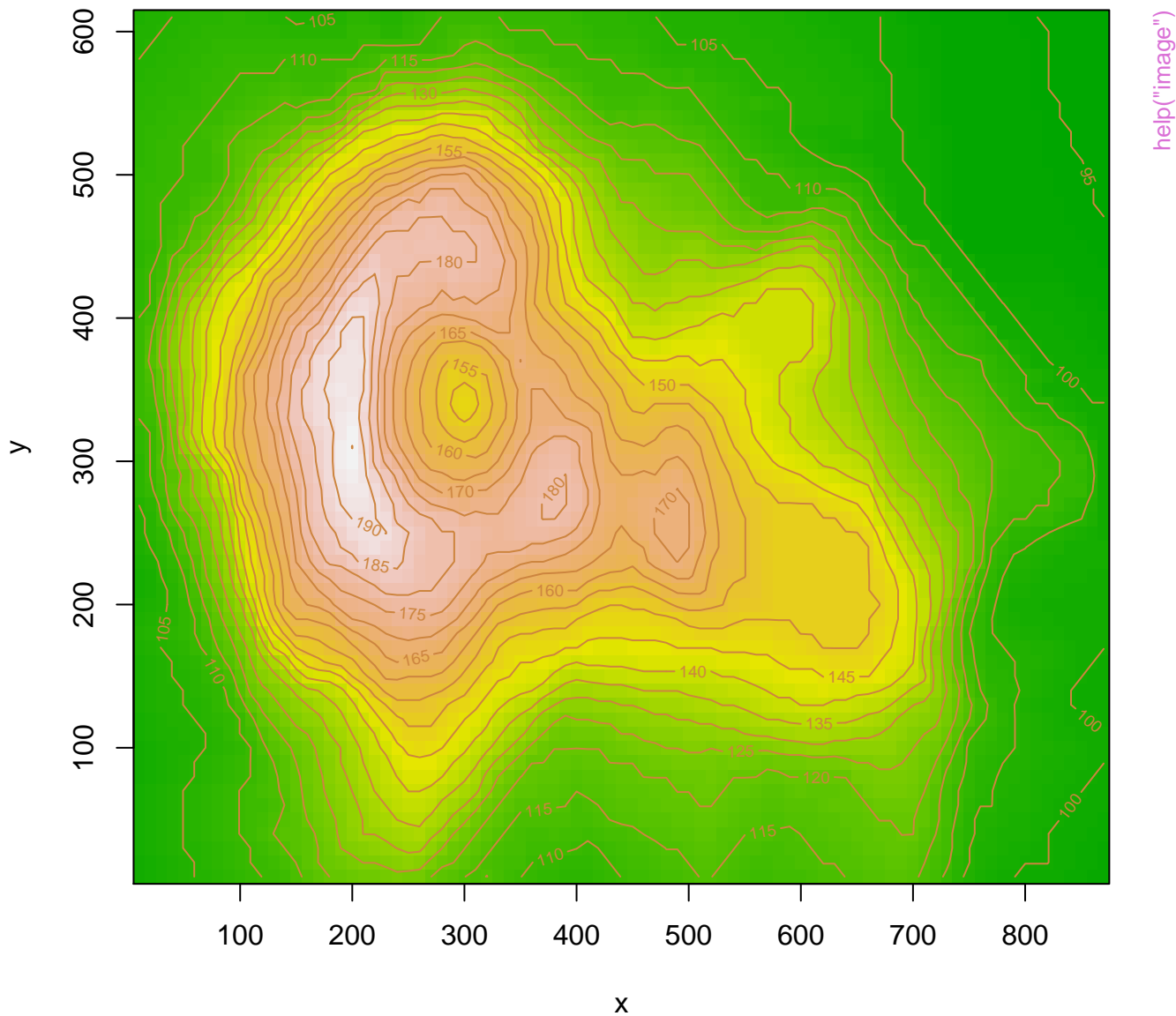
help("image")

$$\cos(r^2)e^{-r/6}$$



`help("image")`

# Maunga Whau Volcano



1

2



1

2

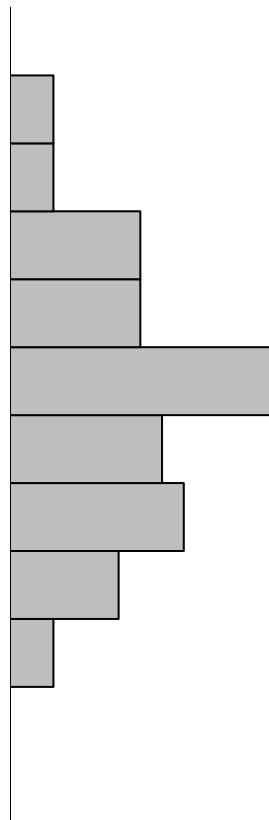
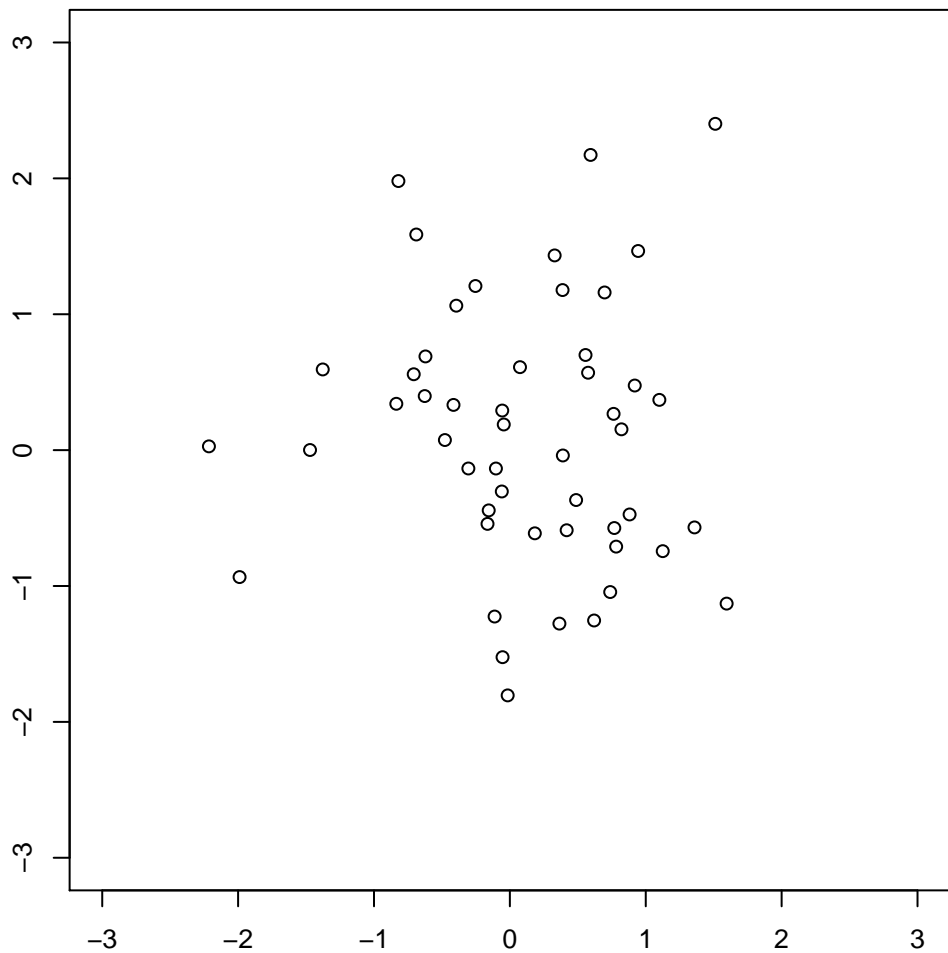
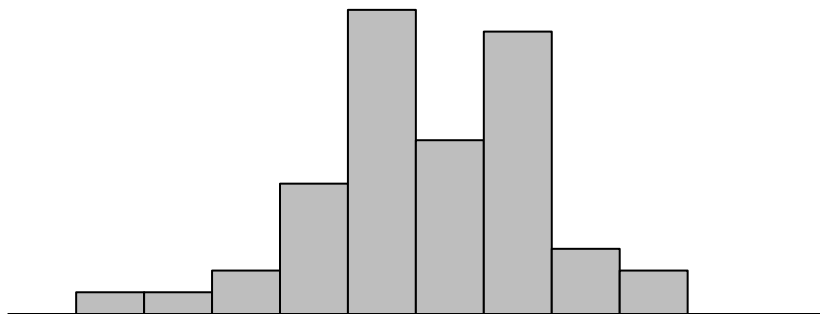
1

help("layout")

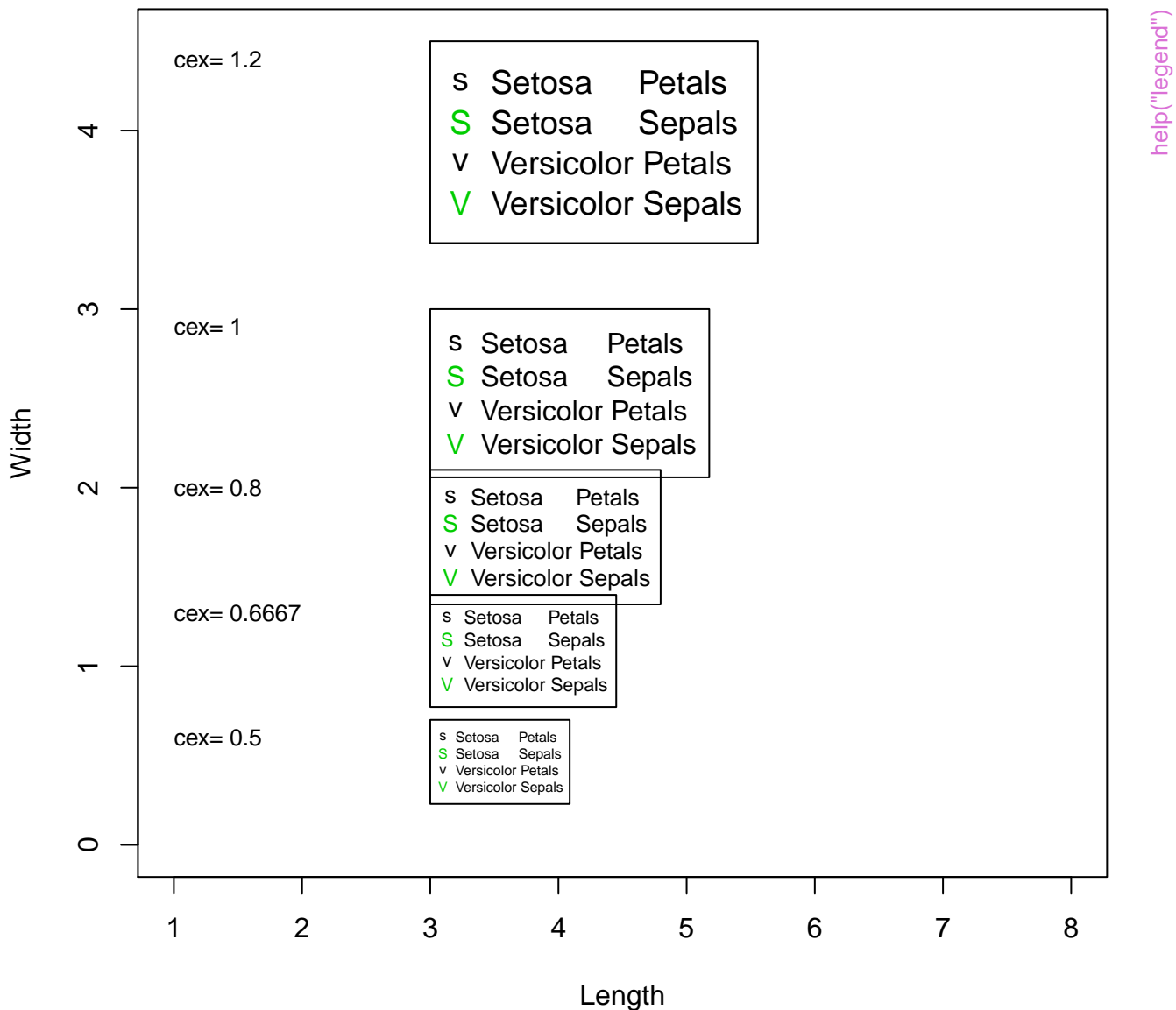
2

1

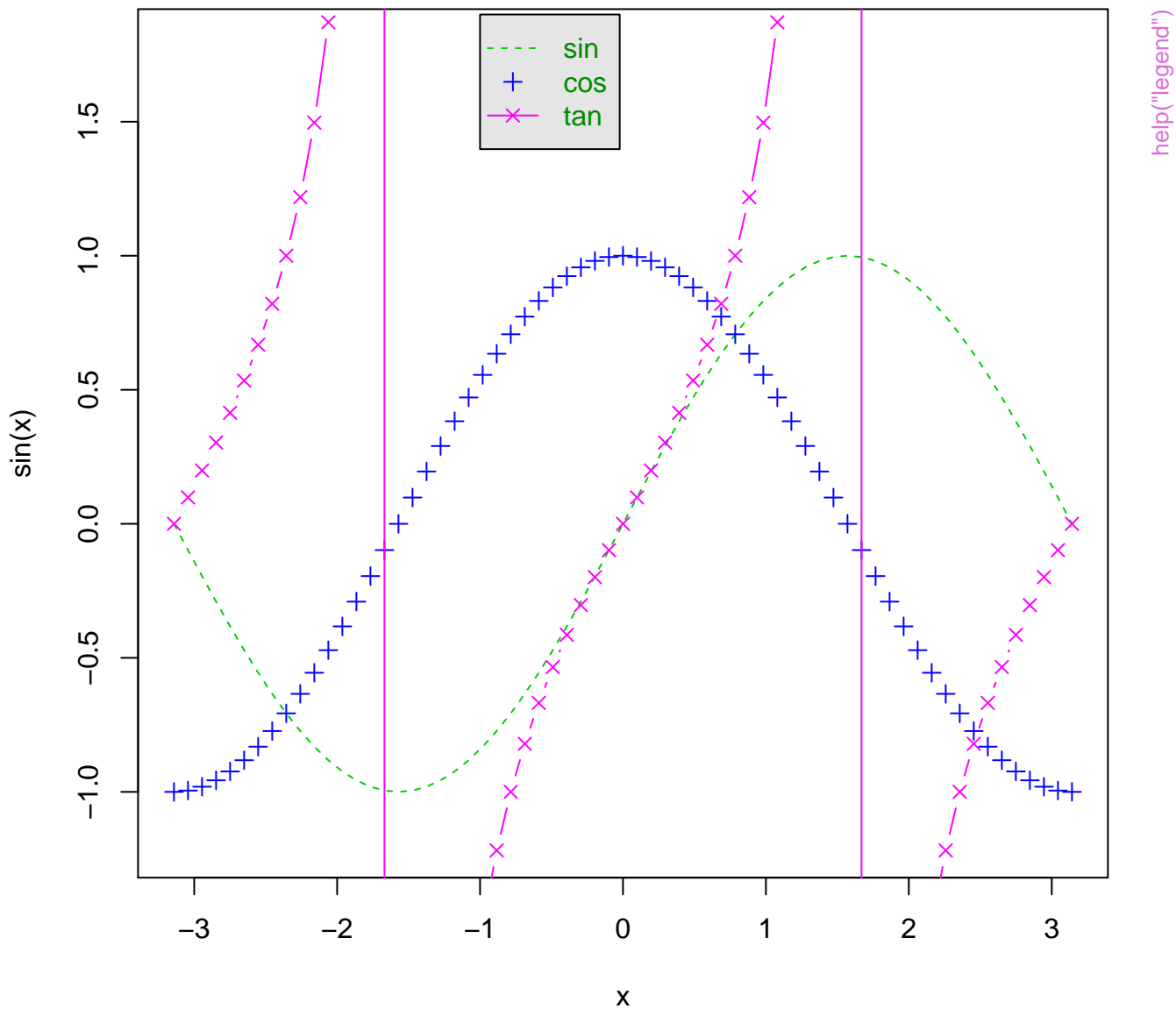
3

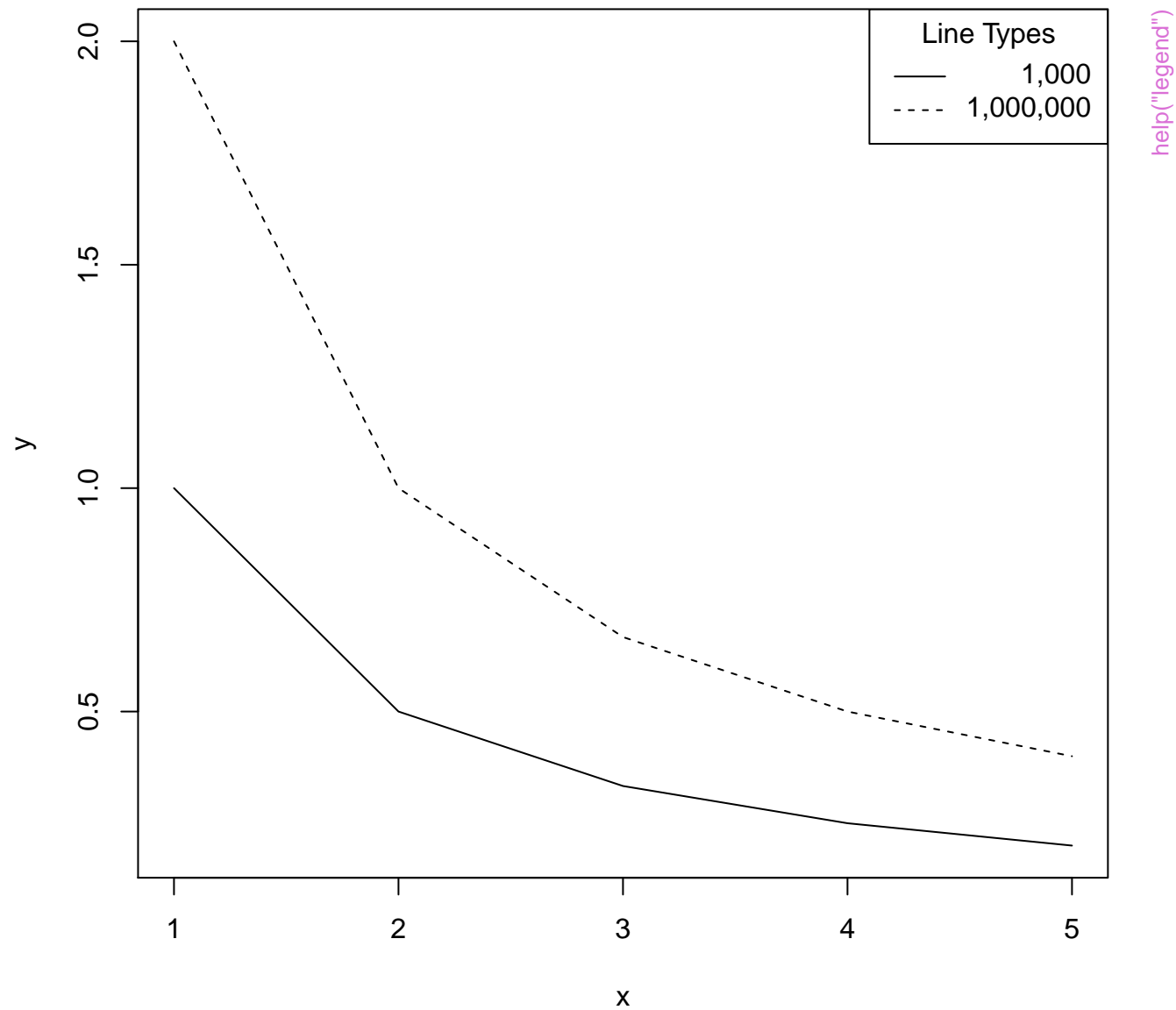


# Petal and Sepal Dimensions in Iris Blossoms

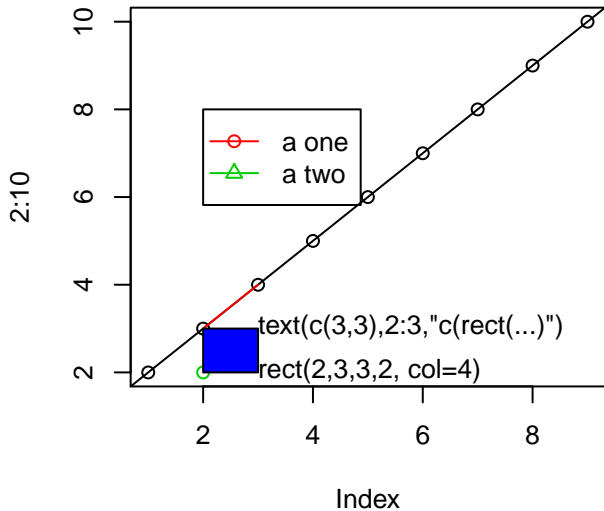


**legend(..., lty = c(2, -1, 1), pch = c(NA, 3, 4), merge = TRUE)**

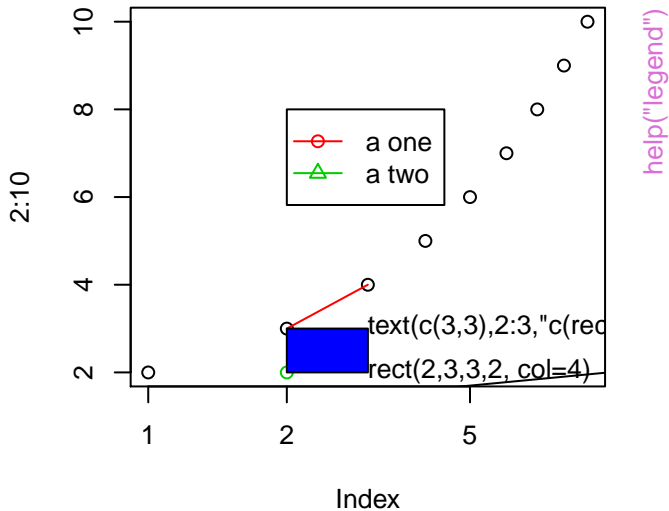




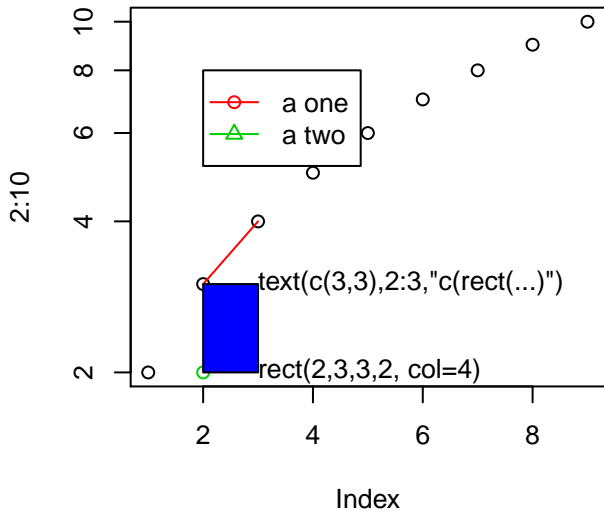
log = ""



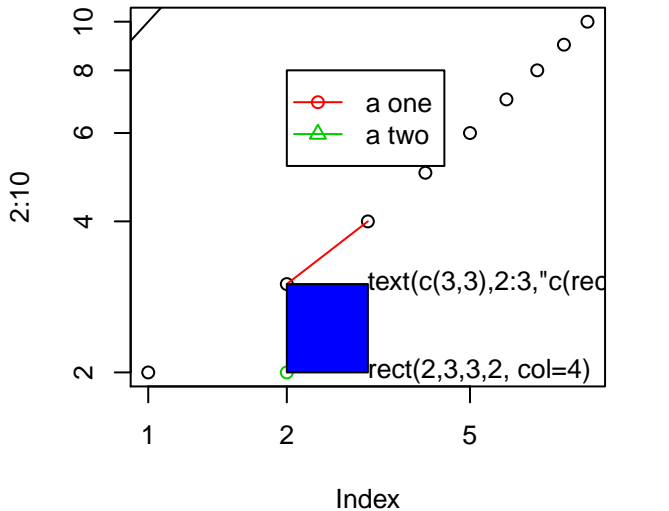
log = 'x'



log = 'y'

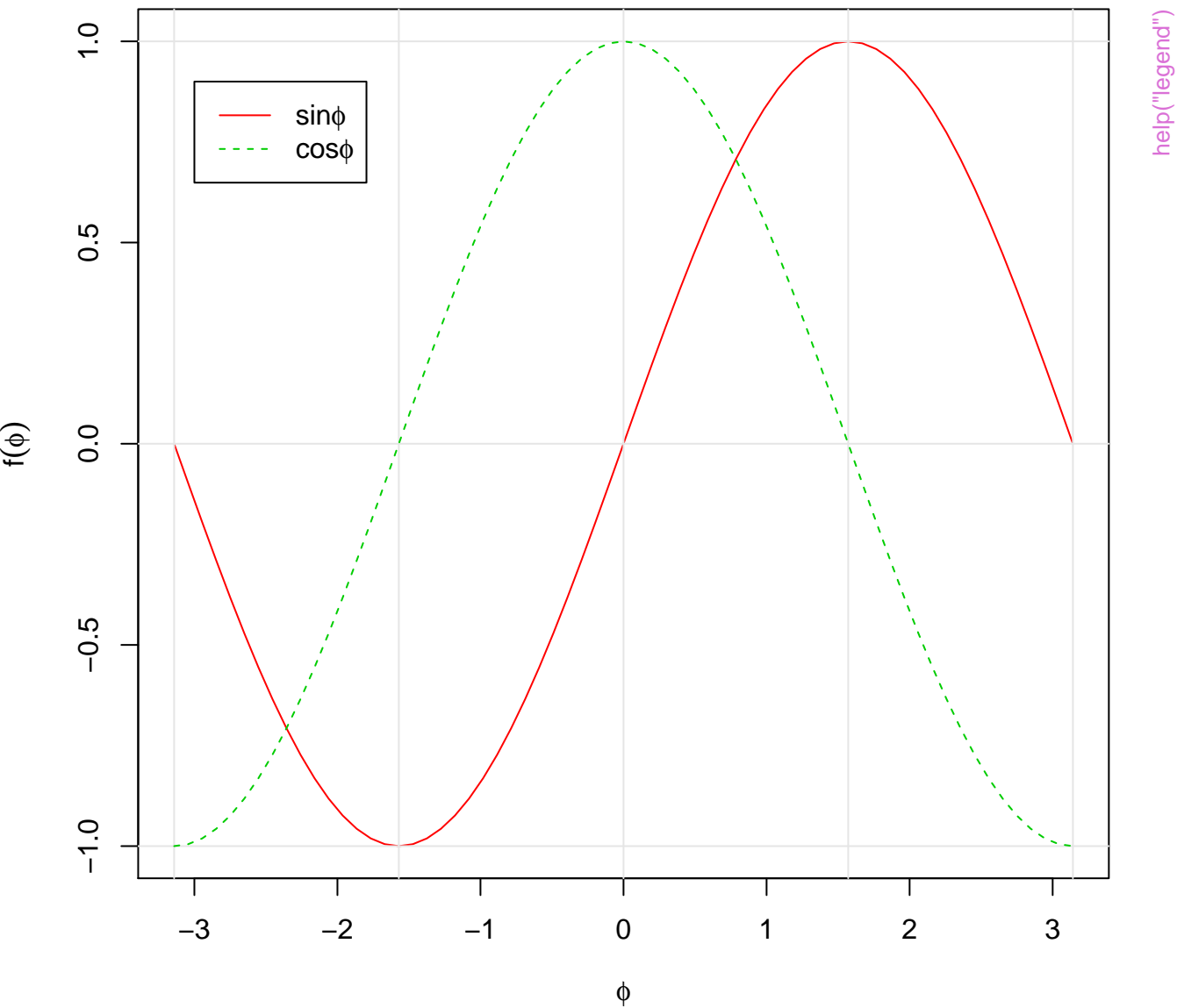


log = 'xy'

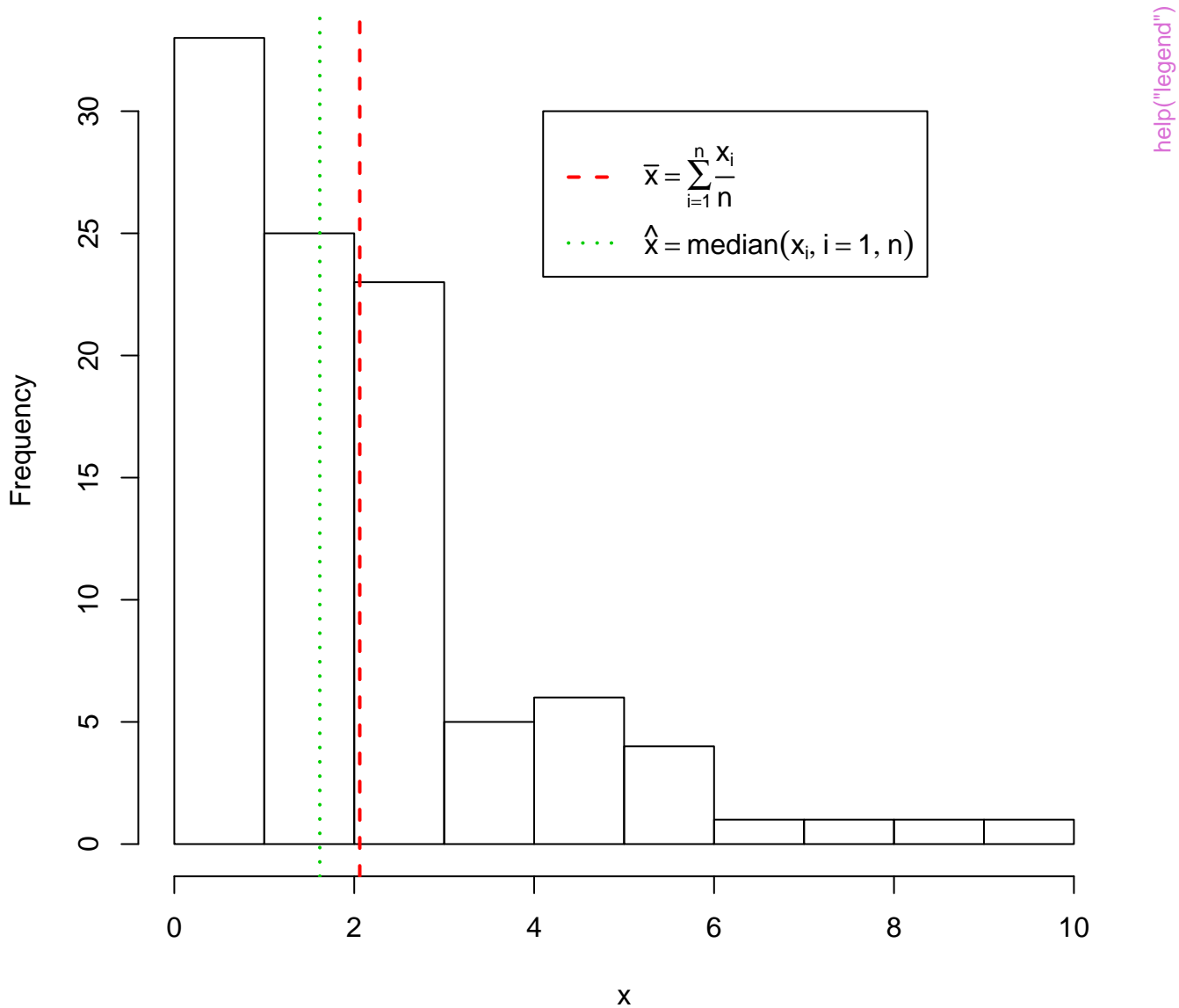


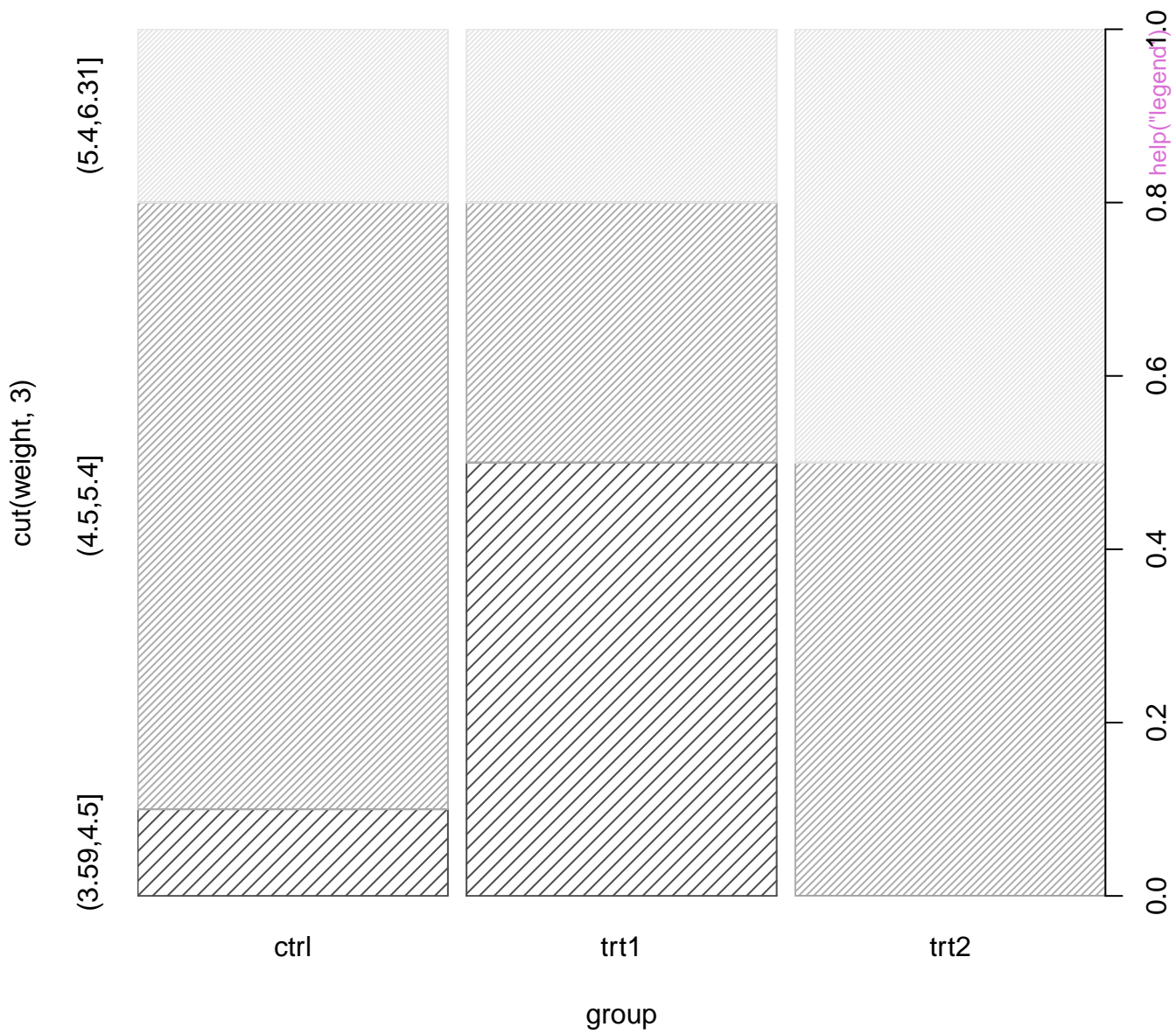
help("legend")

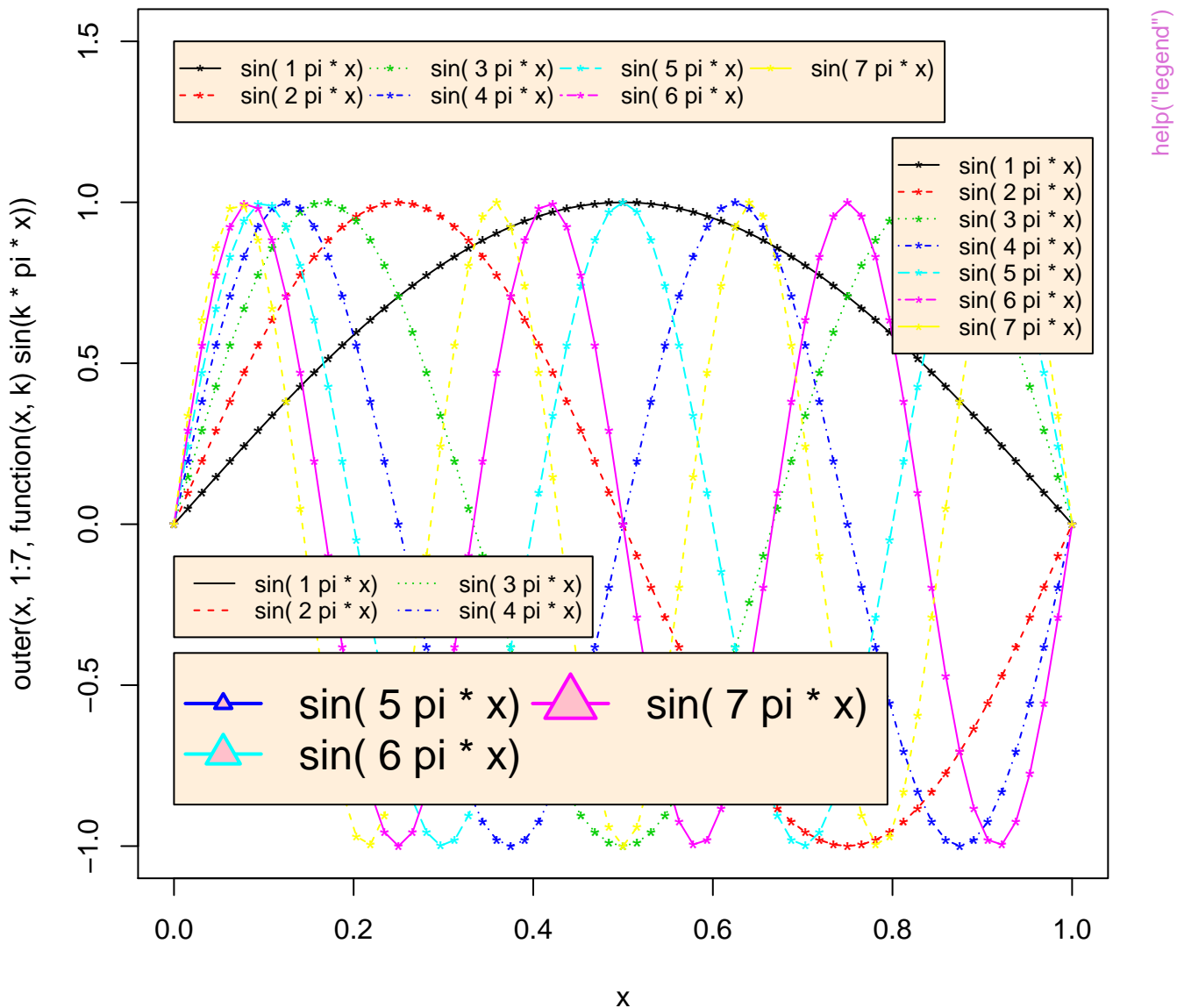




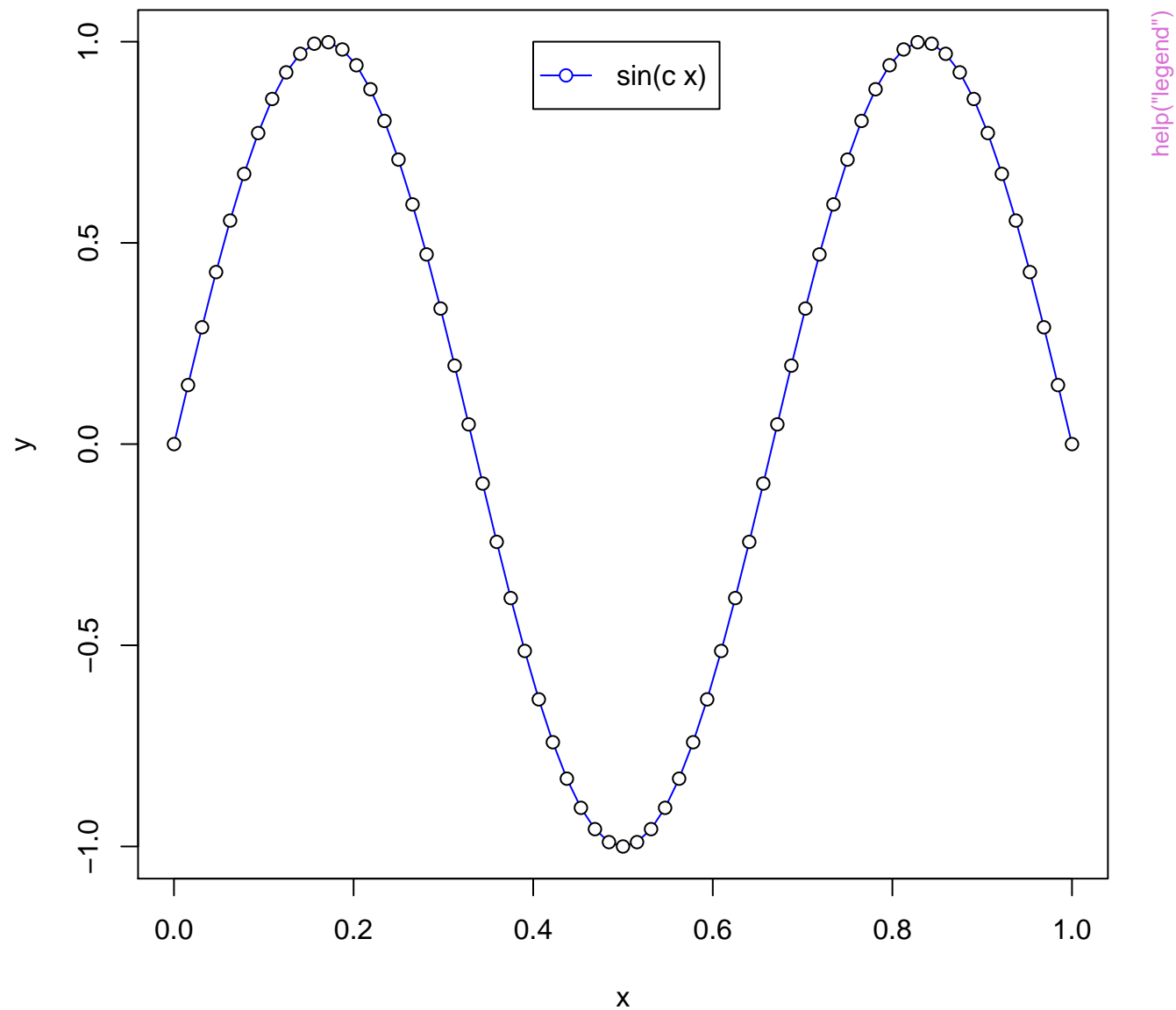
# Mean and Median of a Skewed Distribution

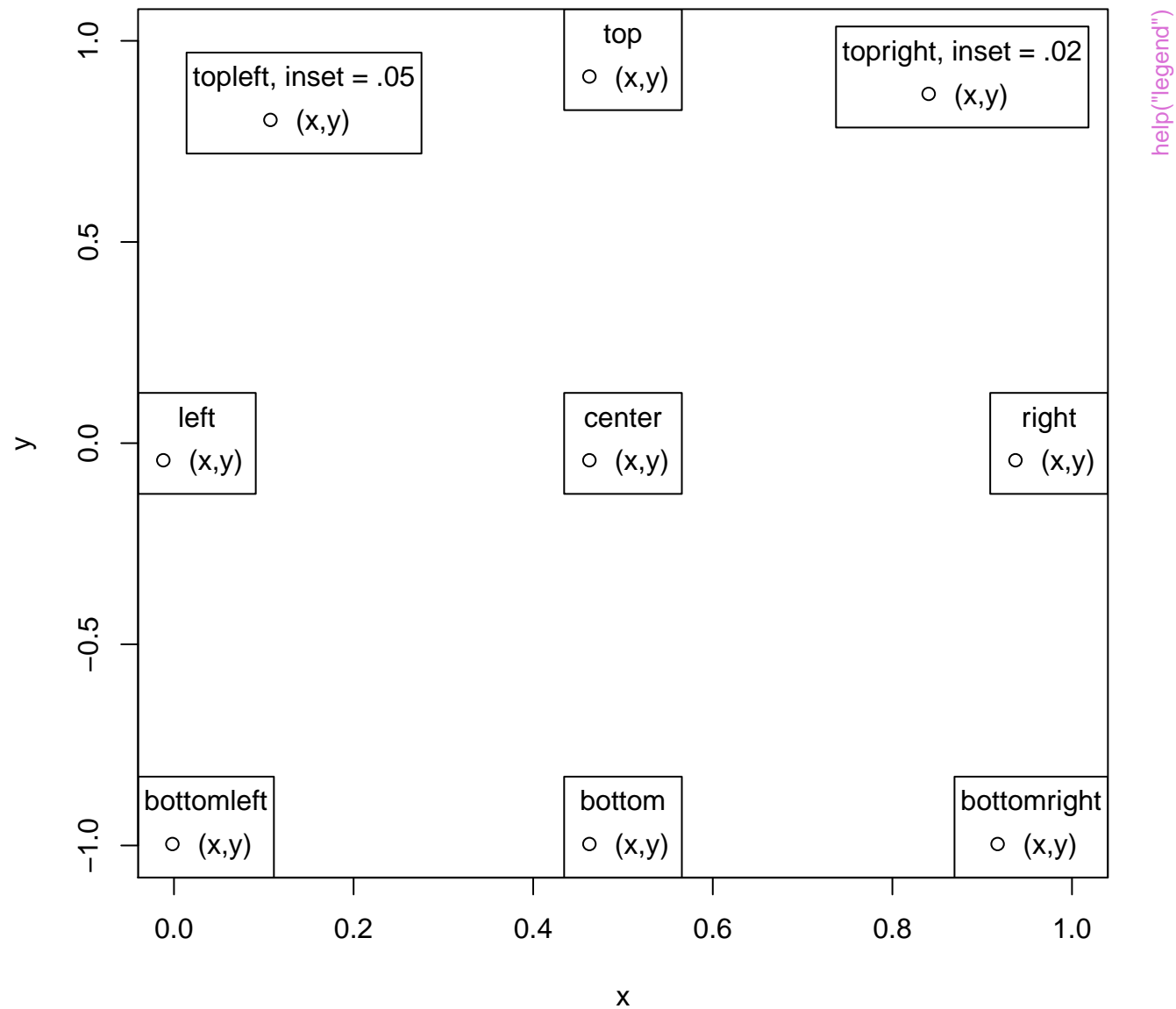






points with bg & legend(\*, pt.bg)





text.font = 1

——	A	——	D
——	B	——	E
——	C	——	F

text.font = 2

——	A	——	D
——	B	——	E
——	C	——	F

text.font = 3

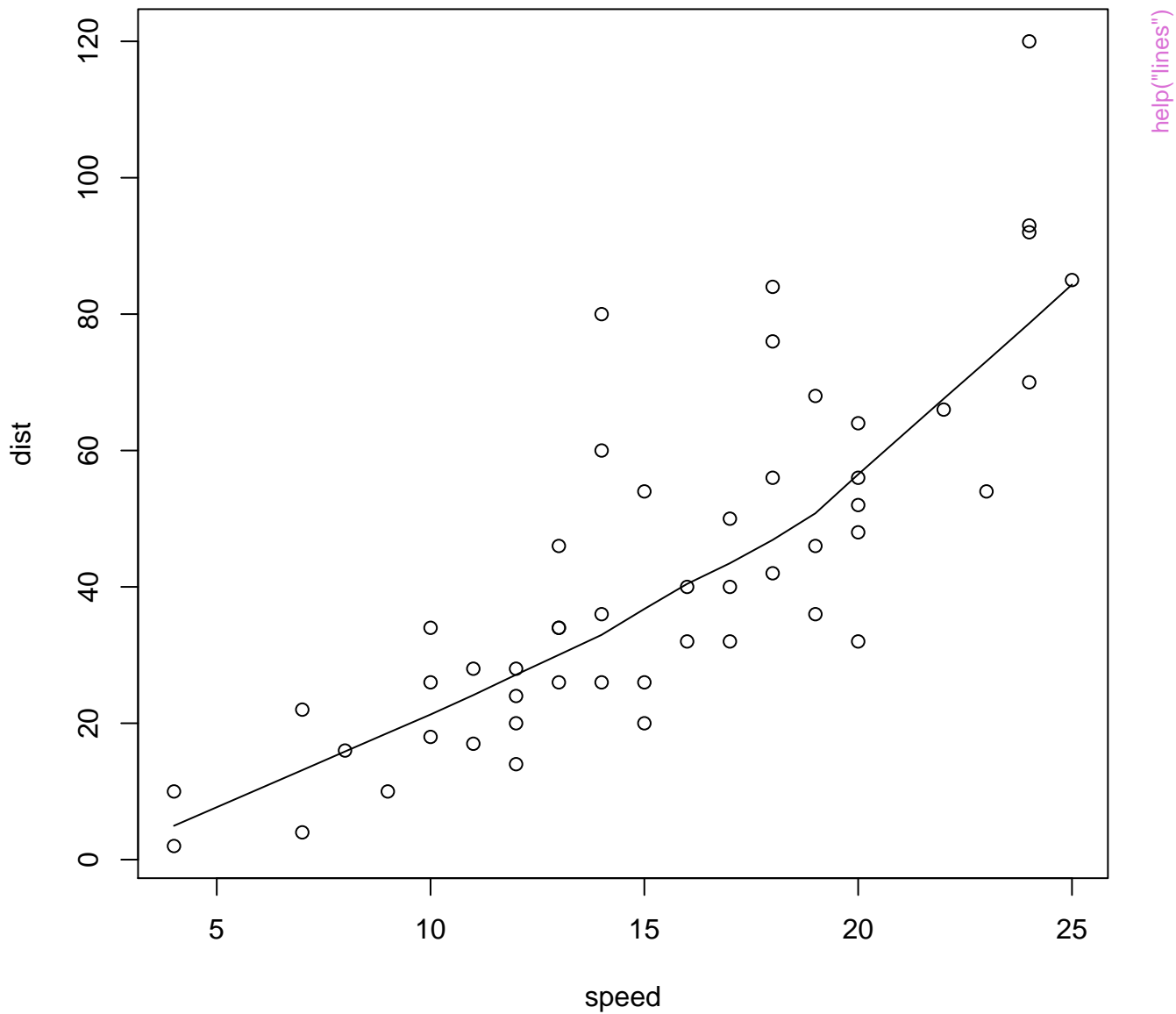
——	<i>A</i>	——	<i>D</i>
——	<i>B</i>	——	<i>E</i>
——	<i>C</i>	——	<i>F</i>

text.font = 4

——	<b><i>A</i></b>	——	<b><i>D</i></b>
——	<b><i>B</i></b>	——	<b><i>E</i></b>
——	<b><i>C</i></b>	——	<b><i>F</i></b>

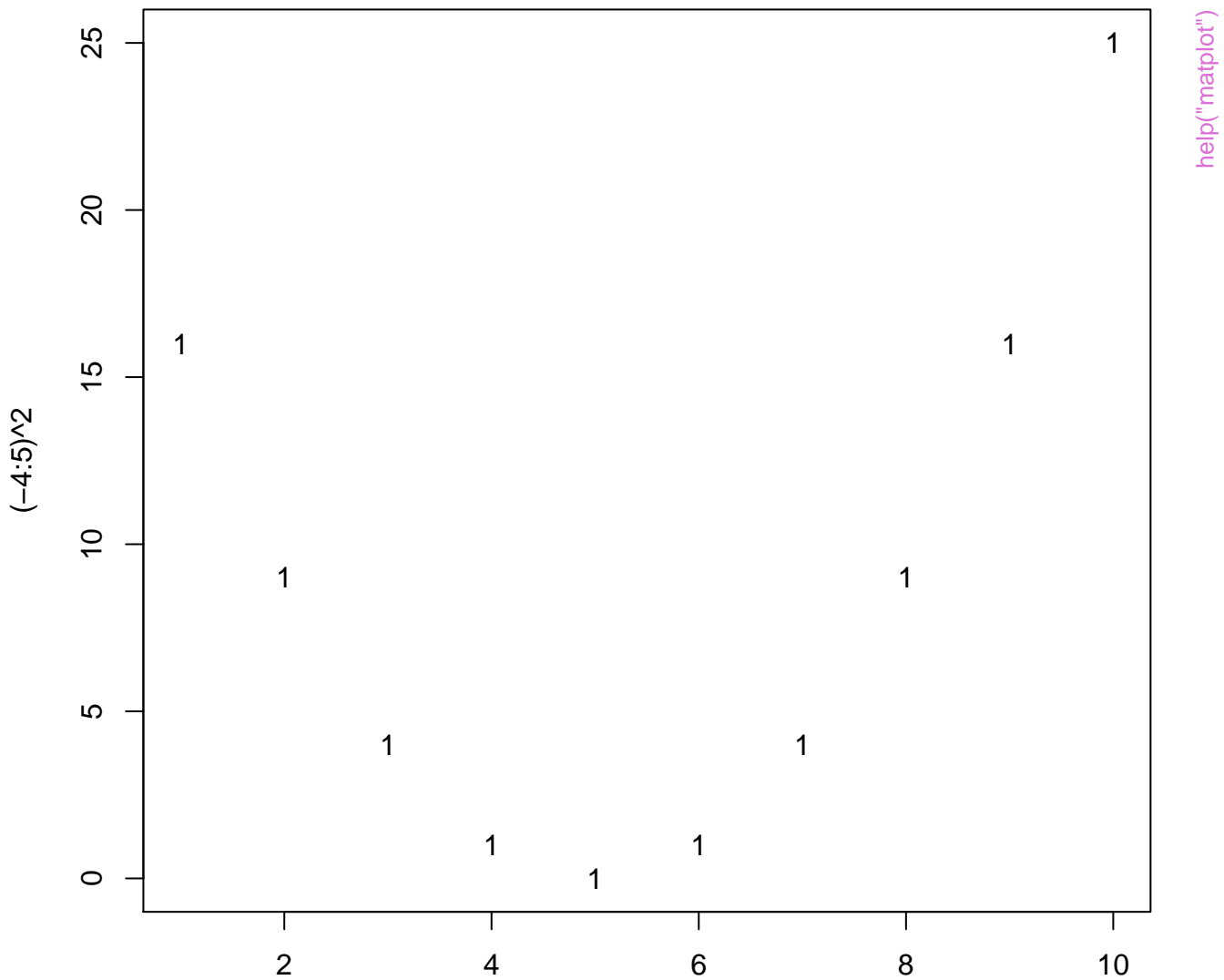
help("legend")

# Stopping Distance versus Speed

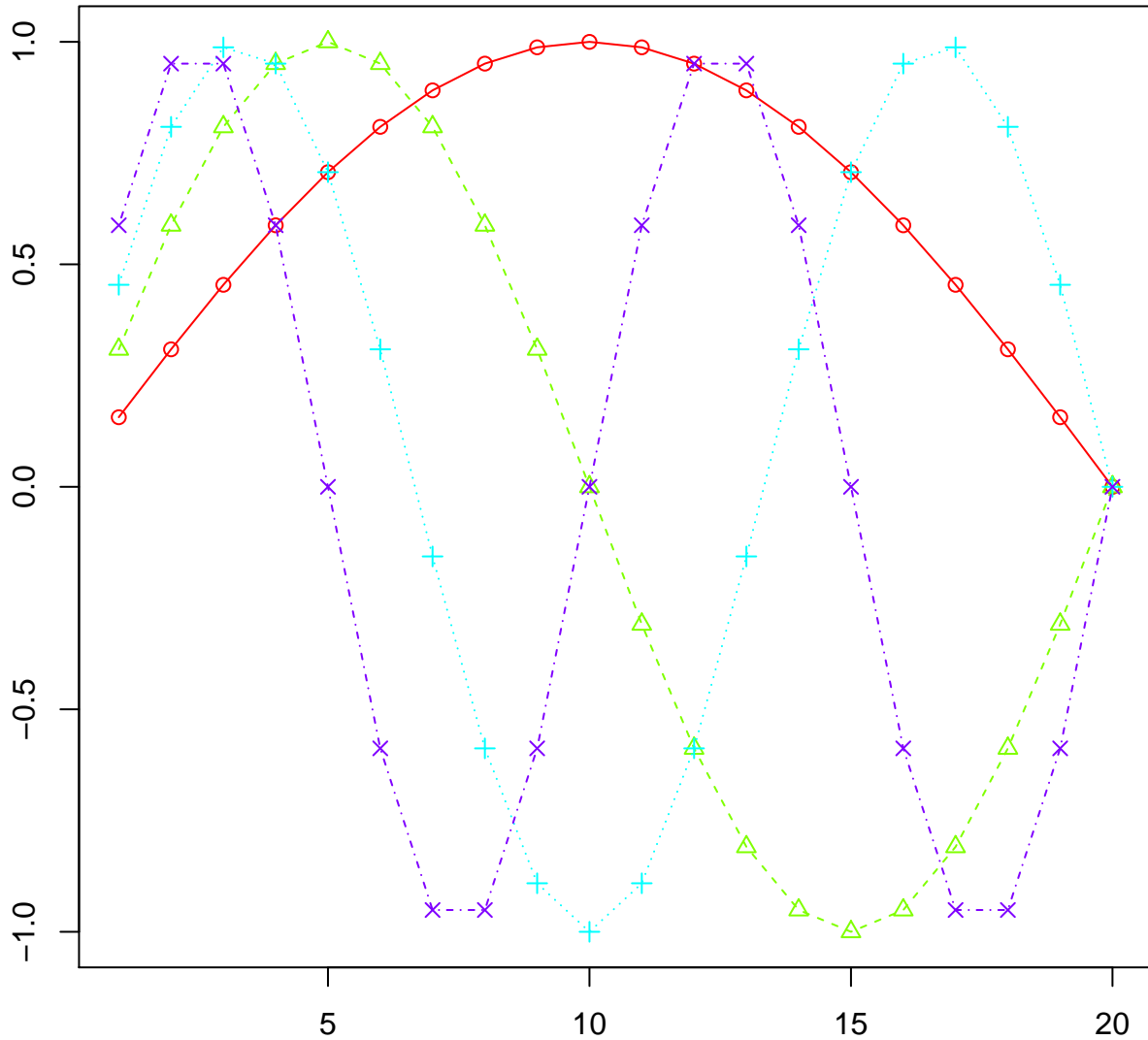




# Quadratic

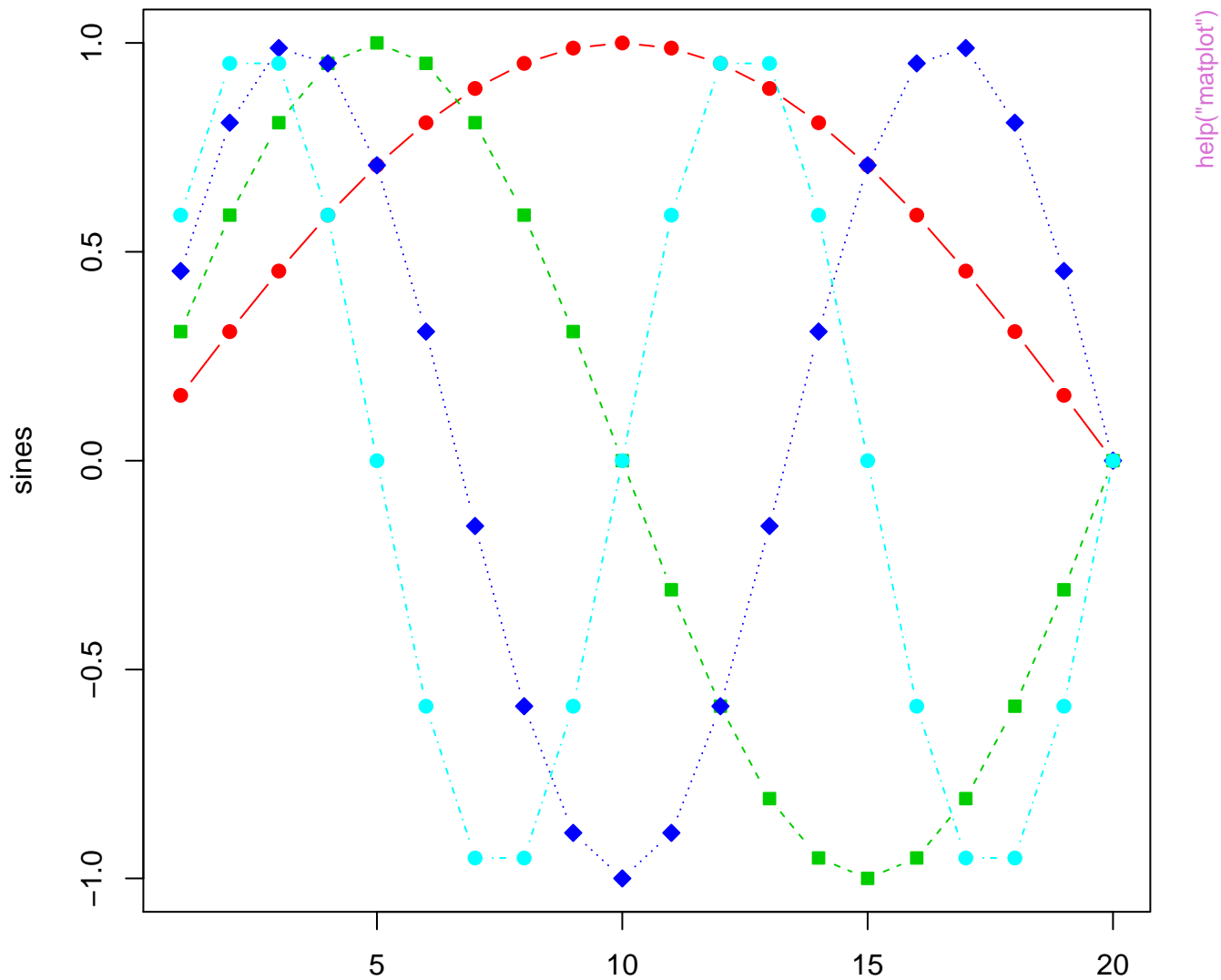


sines



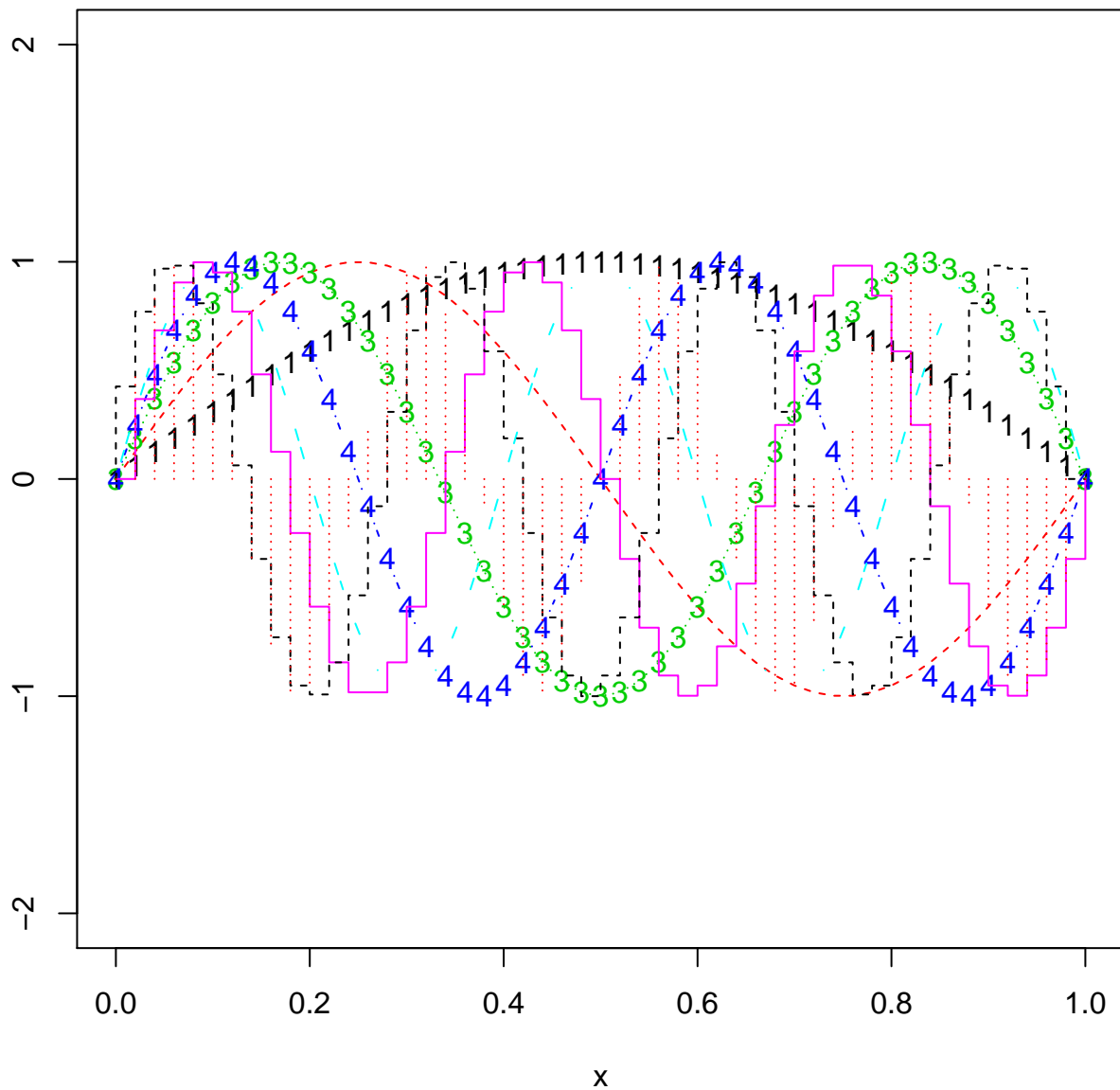
help("matplotlib")

`matplot(..., pch = 21:23, bg = 2:5)`



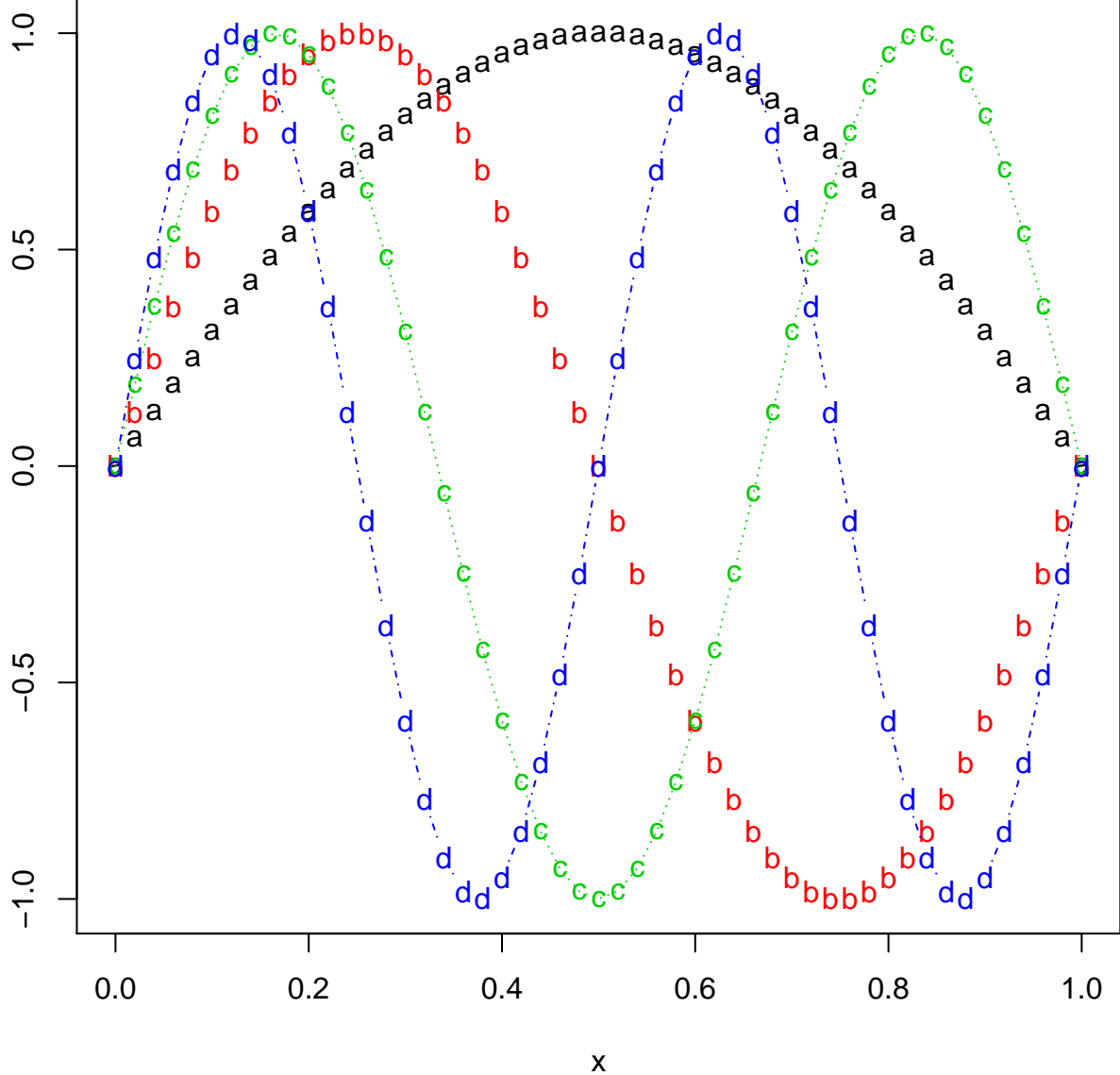
`matplot(type = "plobcsSh" )`

`outer(x, 1:8, function(x, k) sin(k * pi * x))`

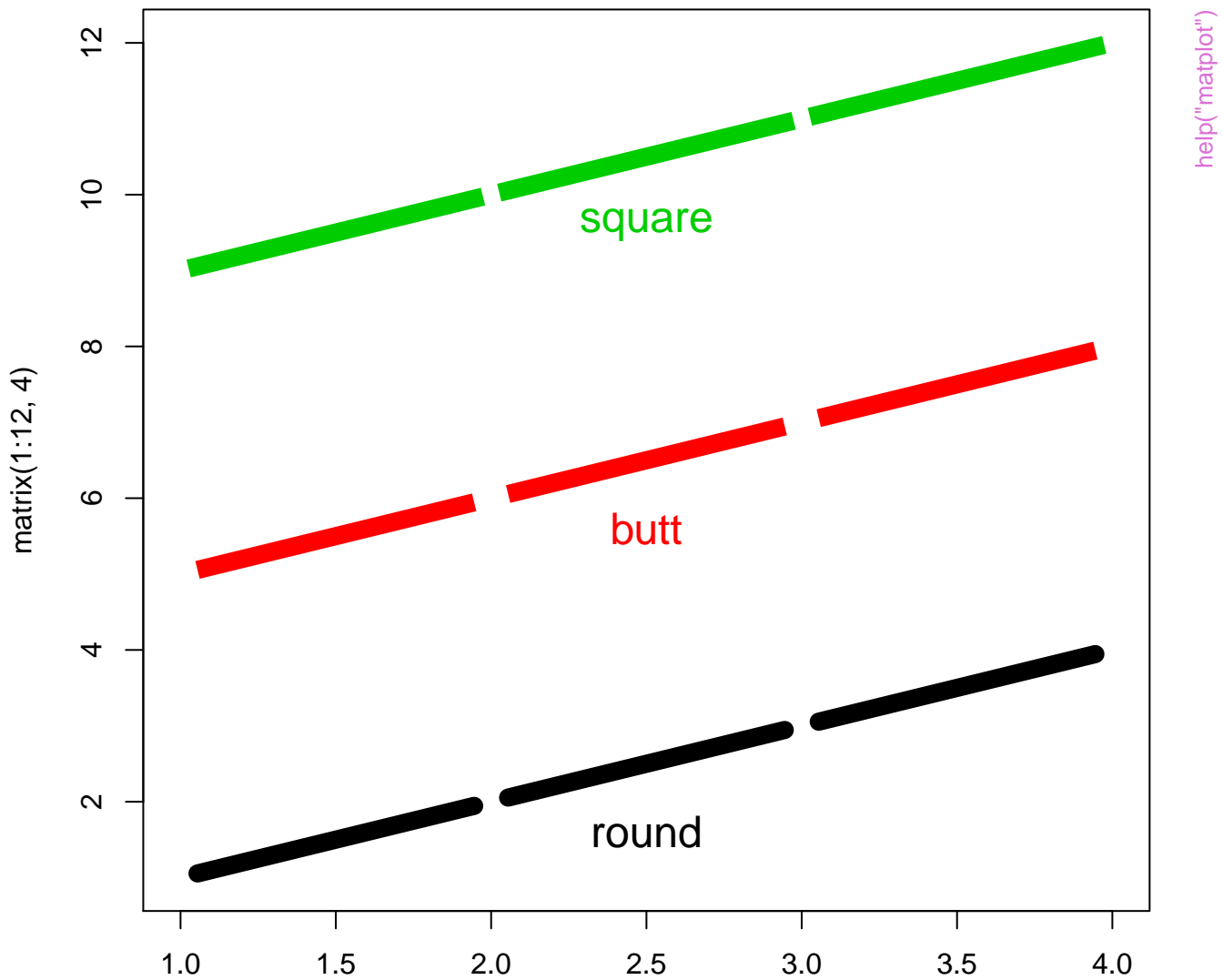


`help("matplot")`

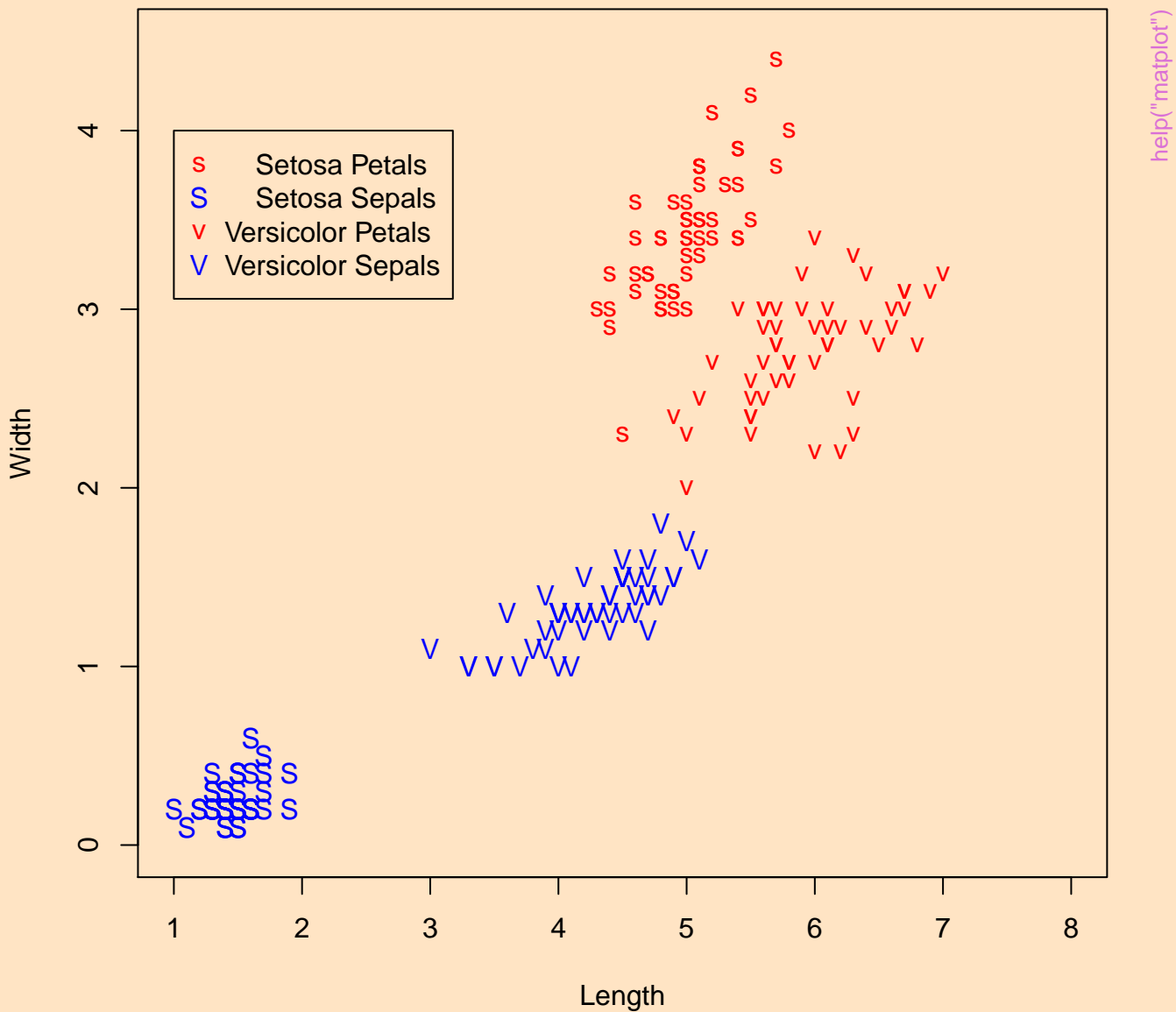
outer(x, 1:4, function(x, k) sin(k \* pi \* x))



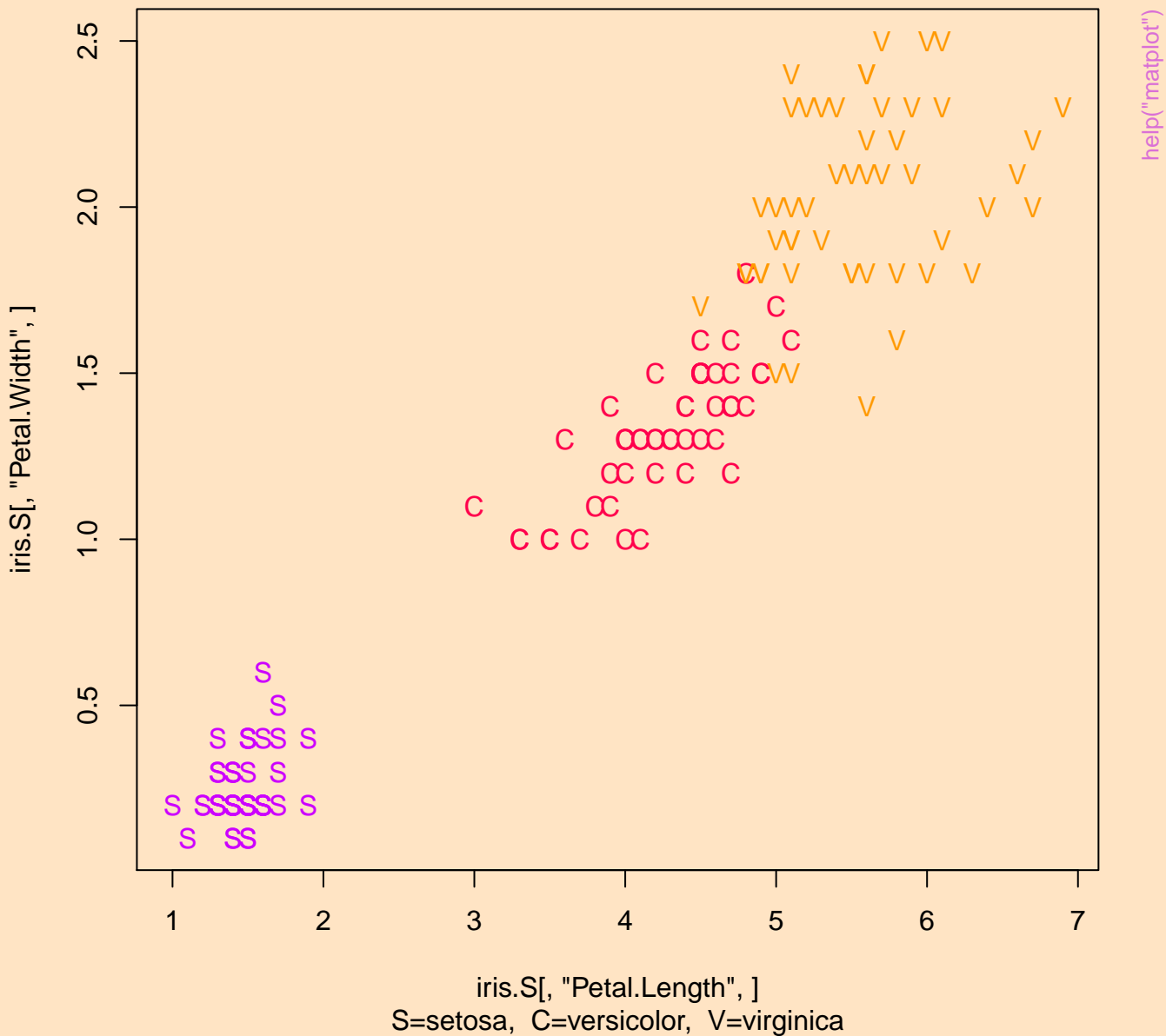
help("matplot")



# Petal and Sepal Dimensions in Iris Blossoms

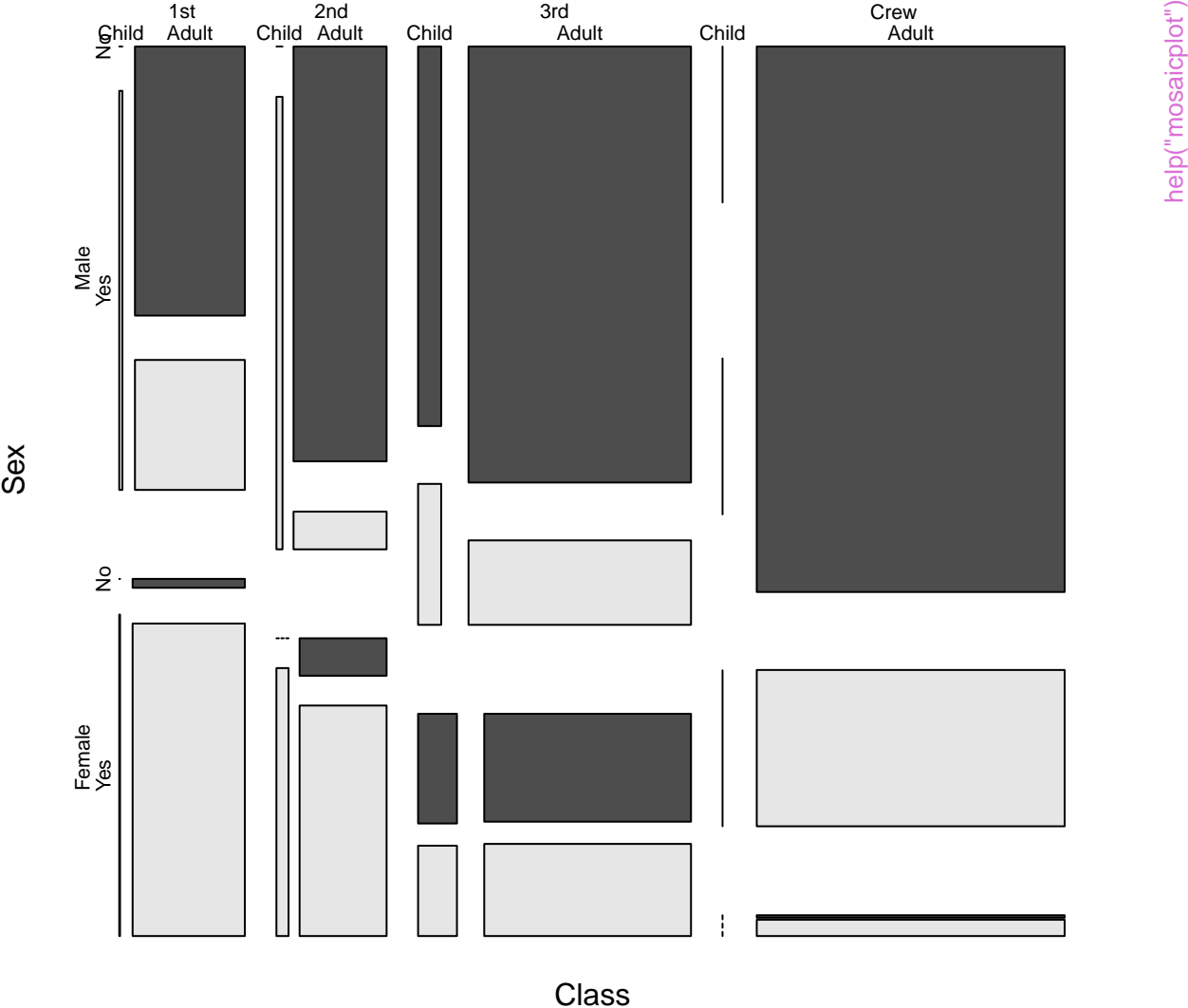


# Fisher's Iris Data

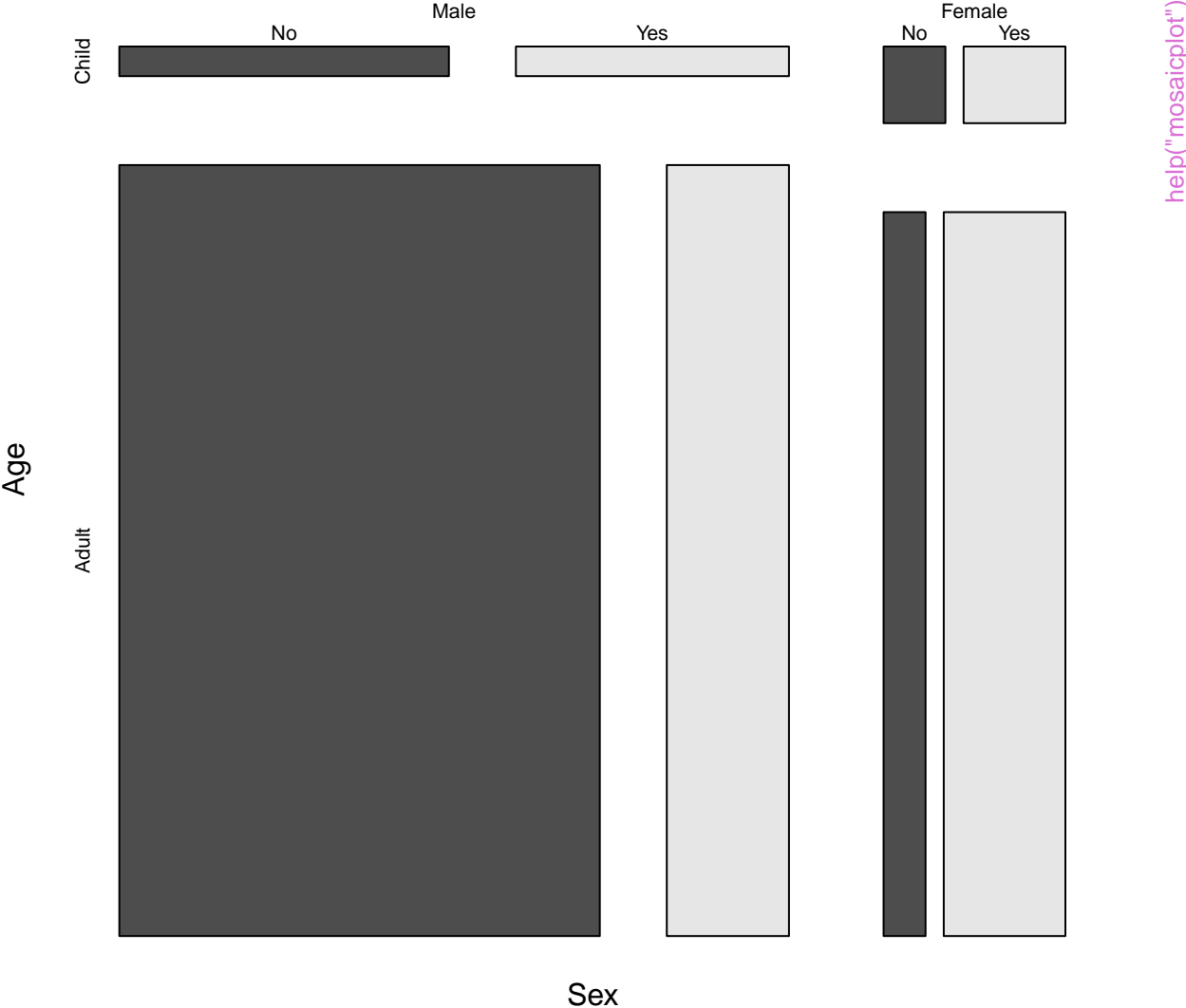




# Survival on the Titanic

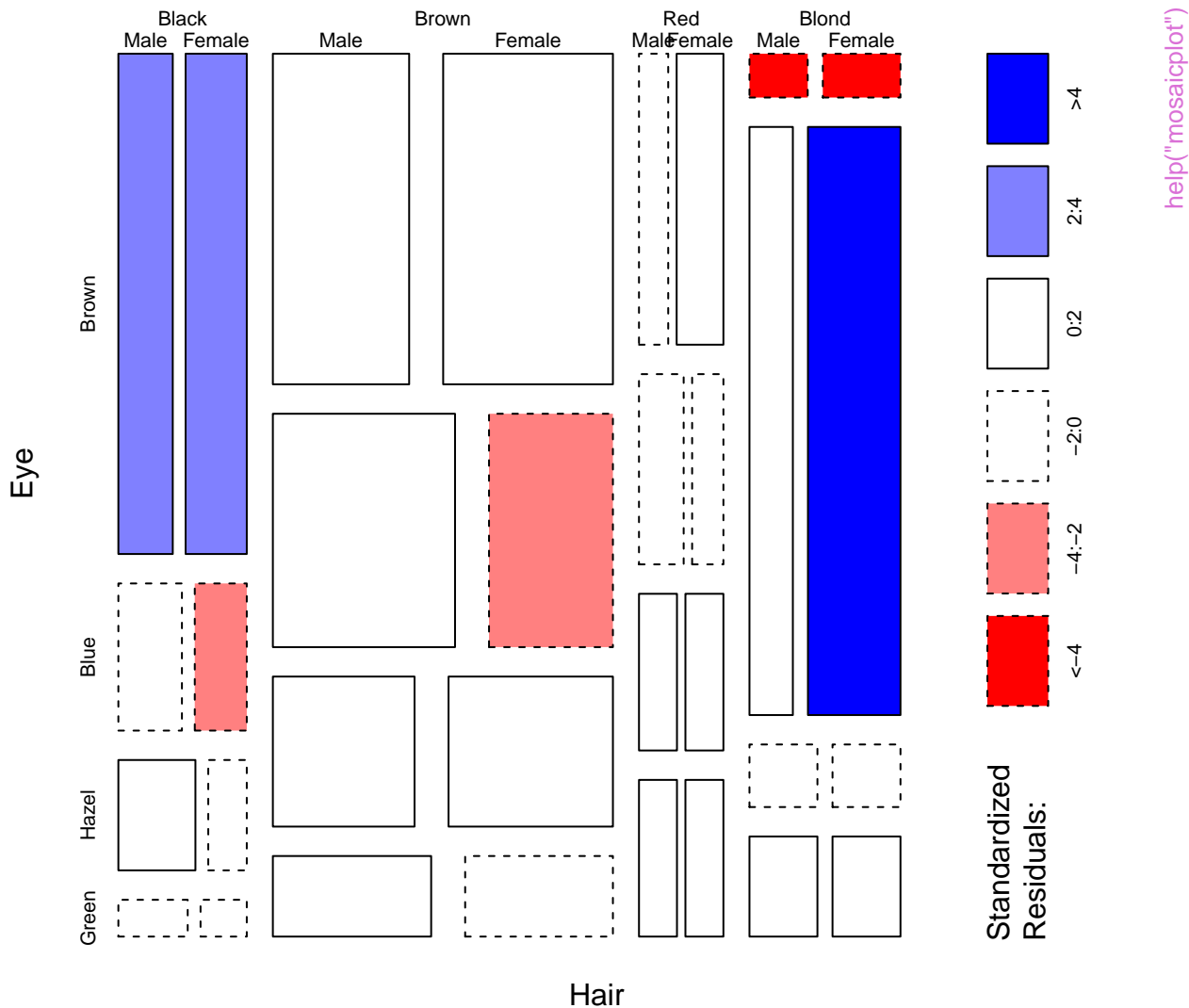


Titanic

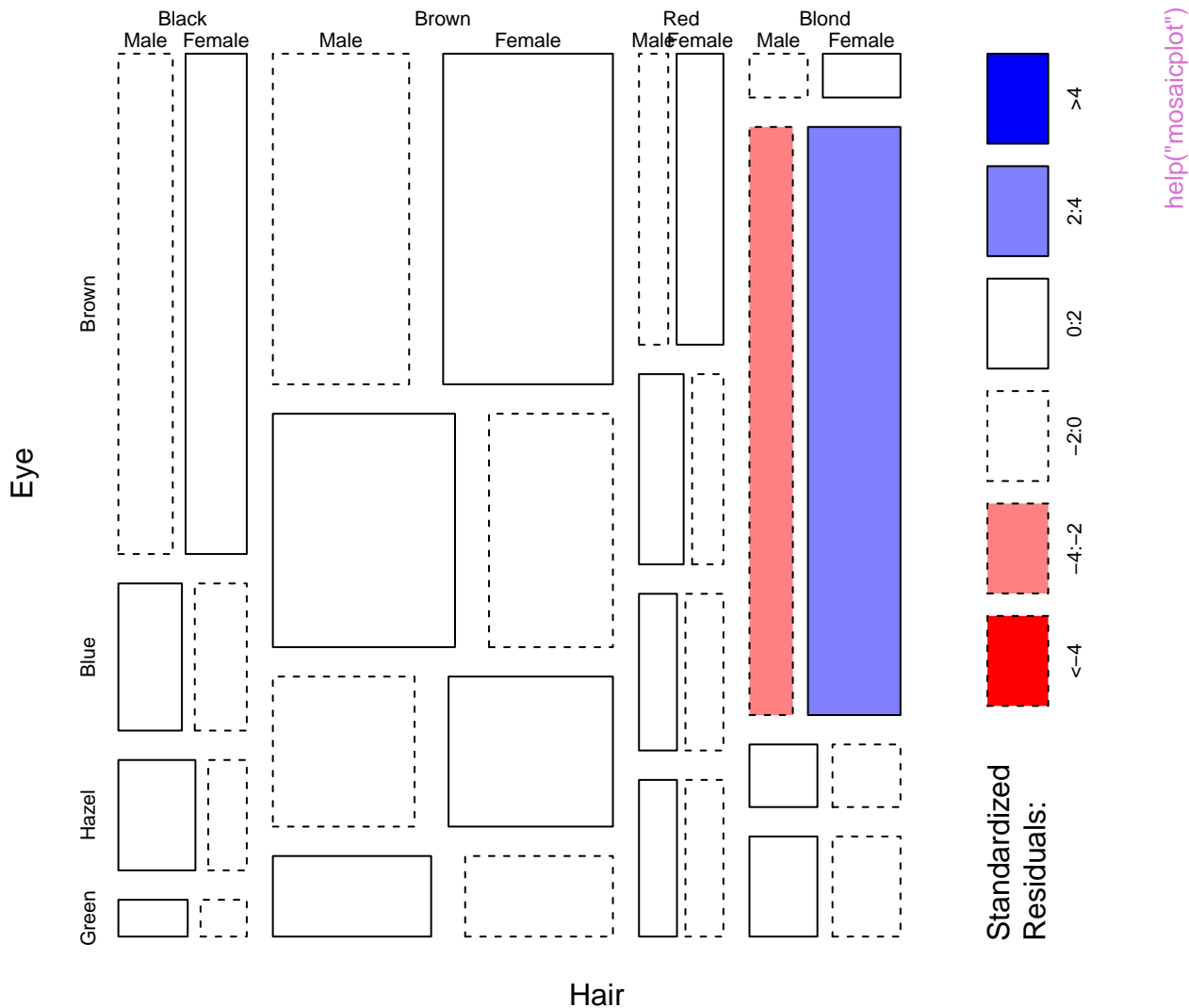


help("mosaicplot")

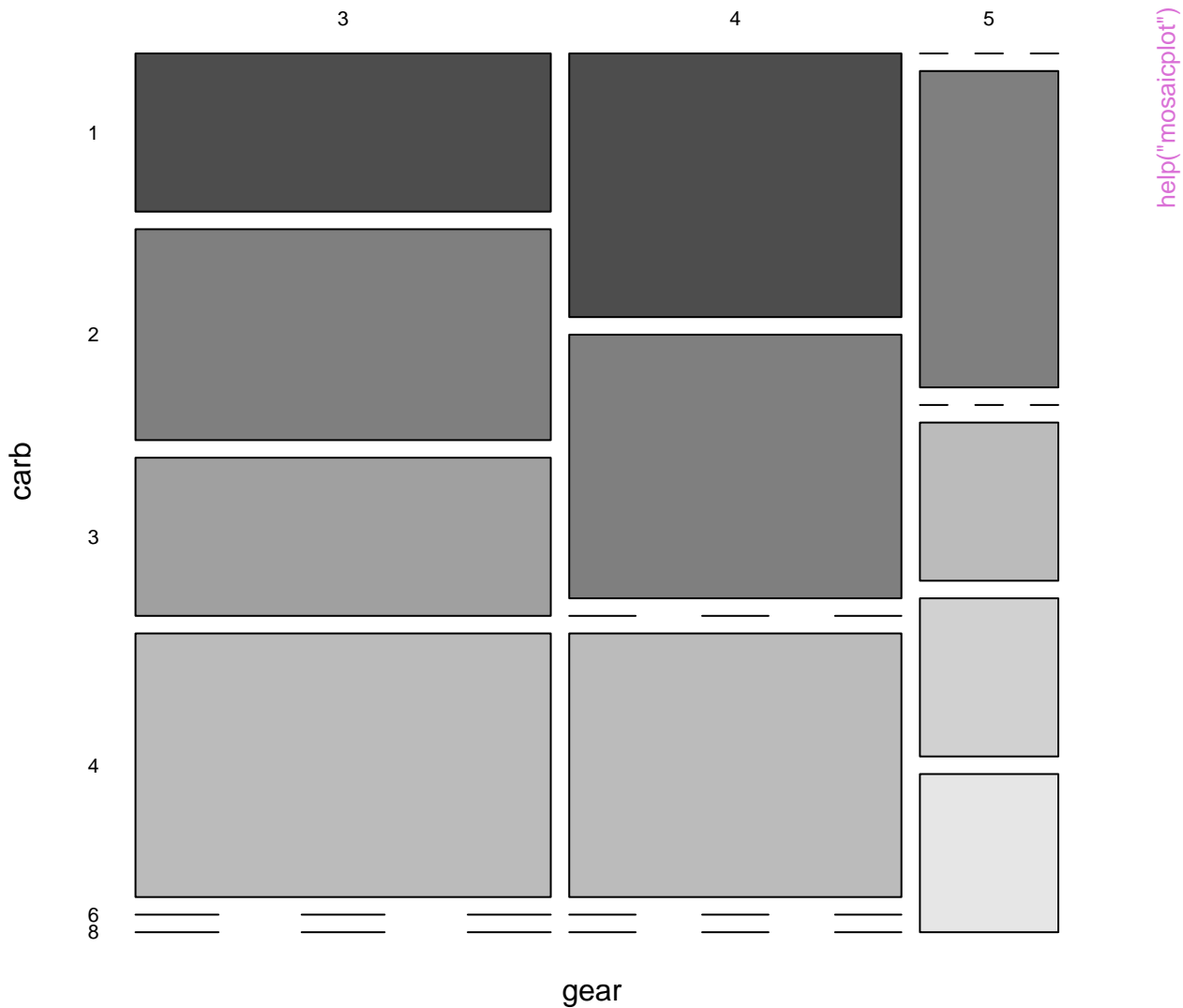
# HairEyeColor



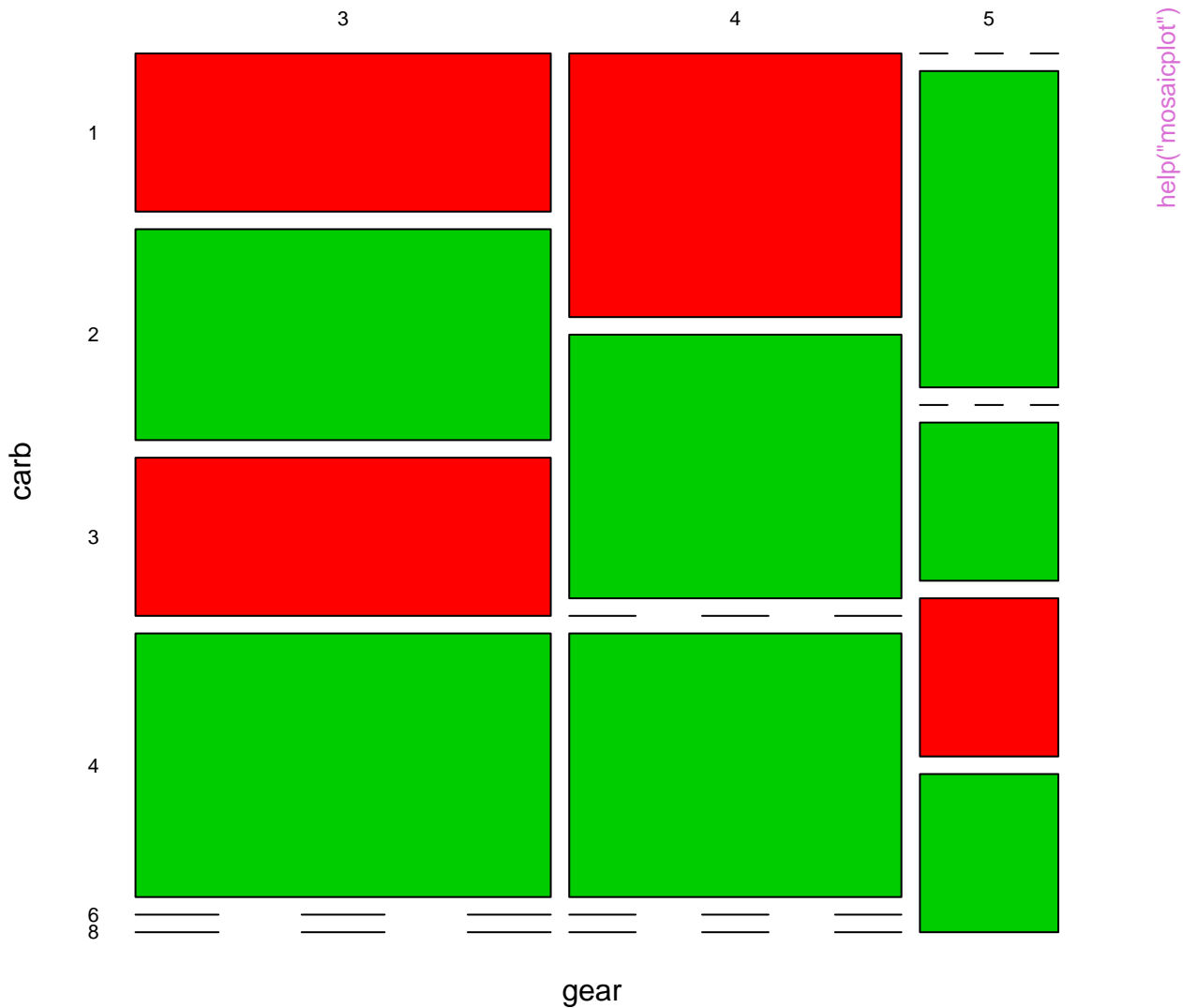
# HairEyeColor



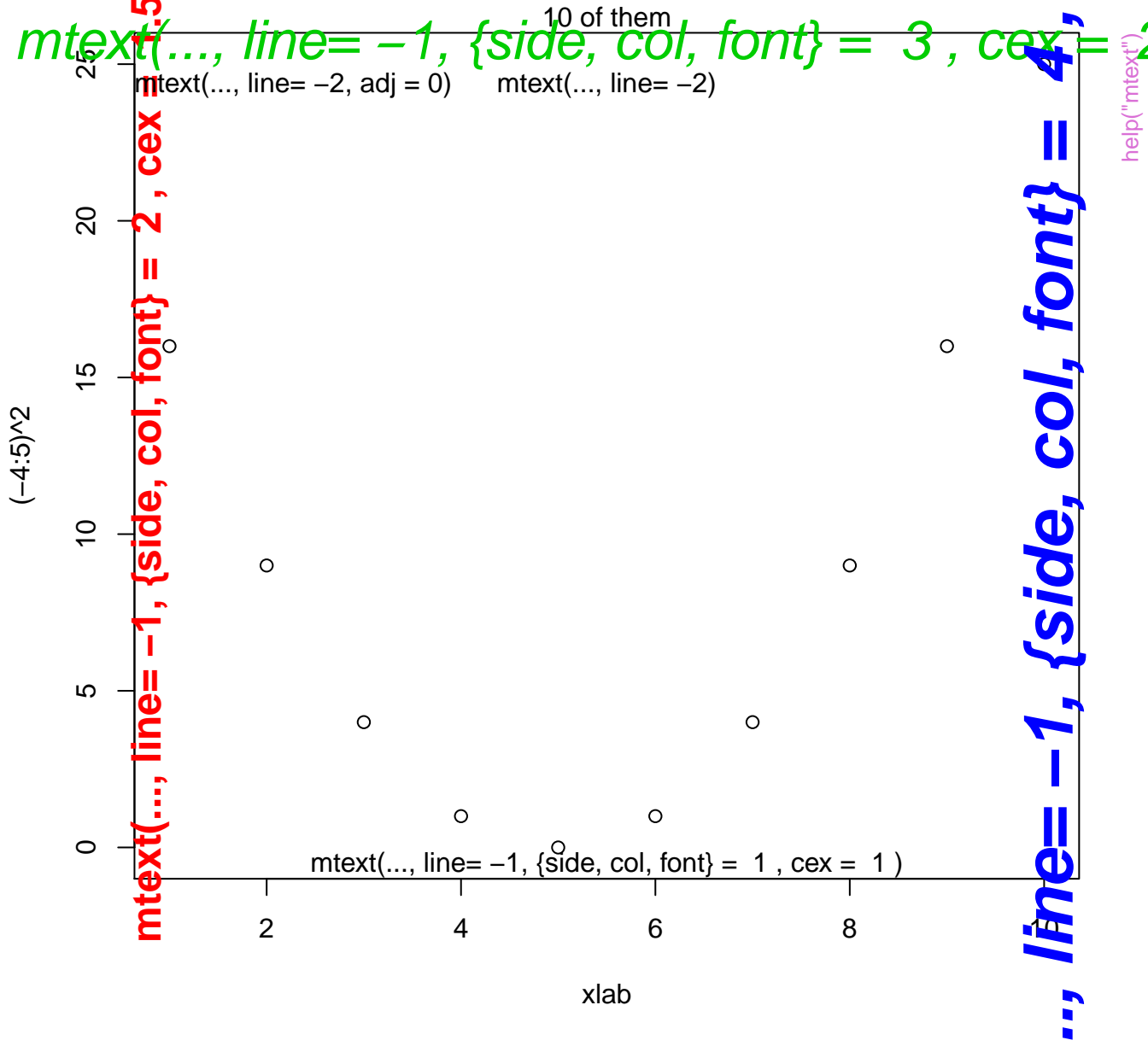
mtcars

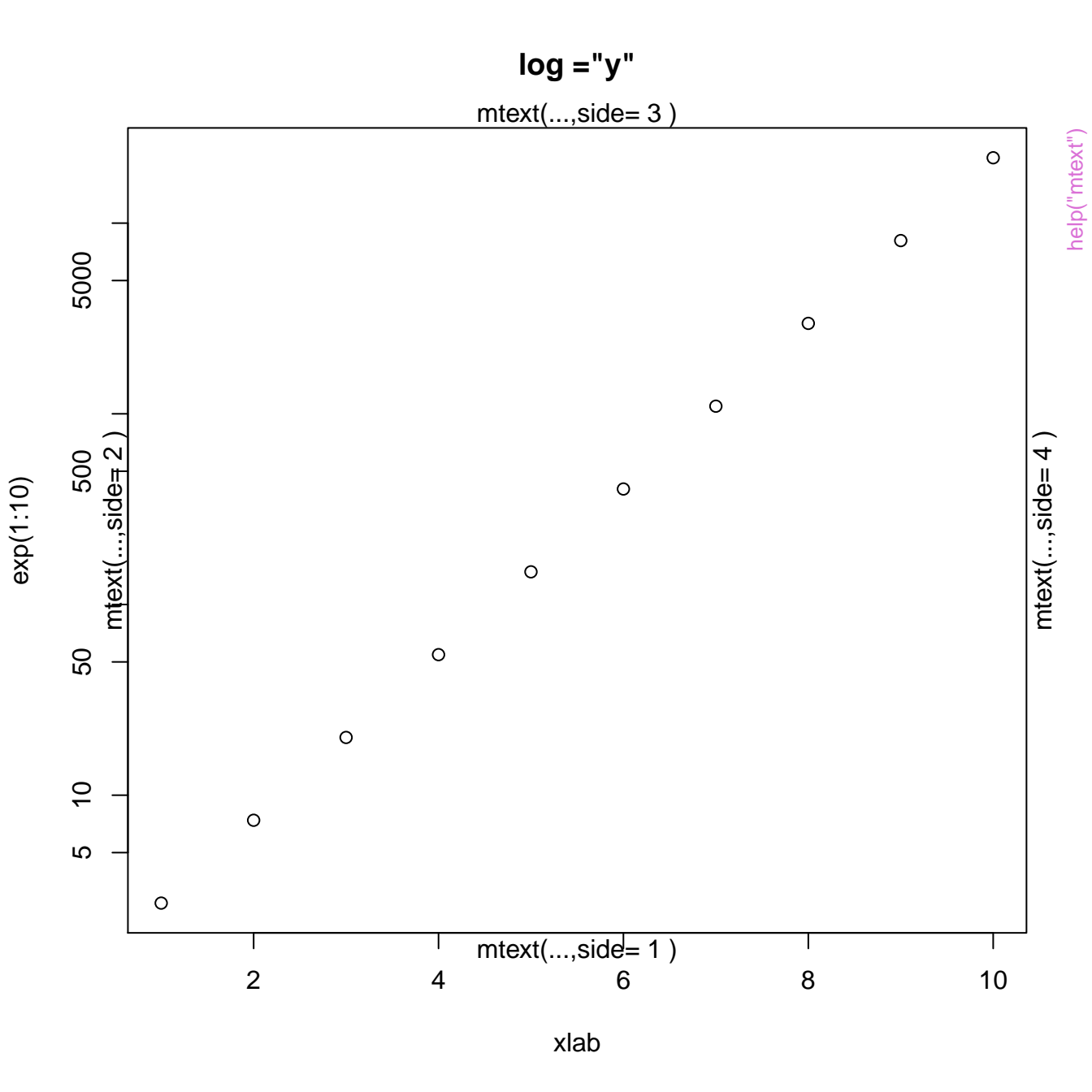


# mtcars



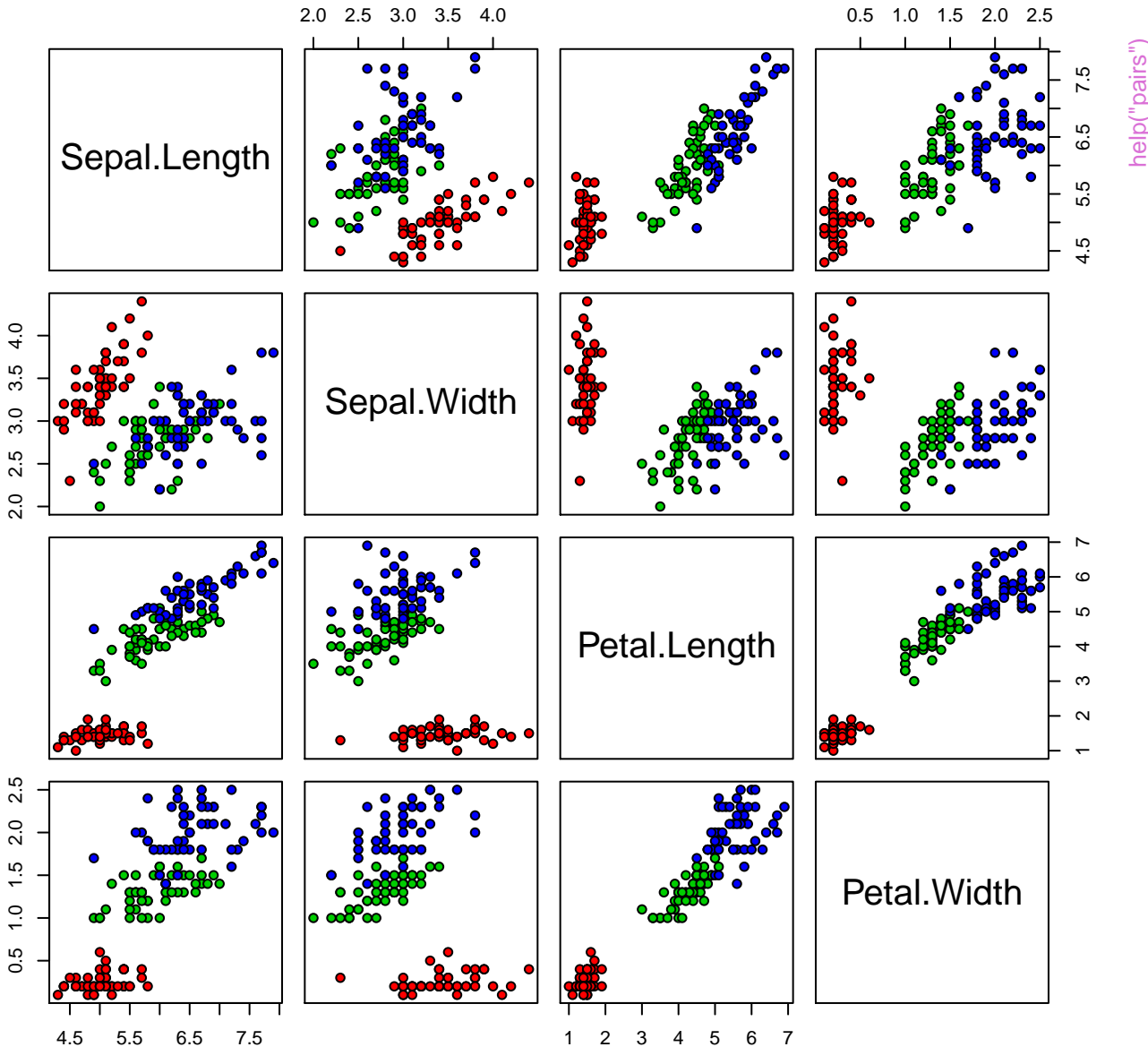
## Parabola Points



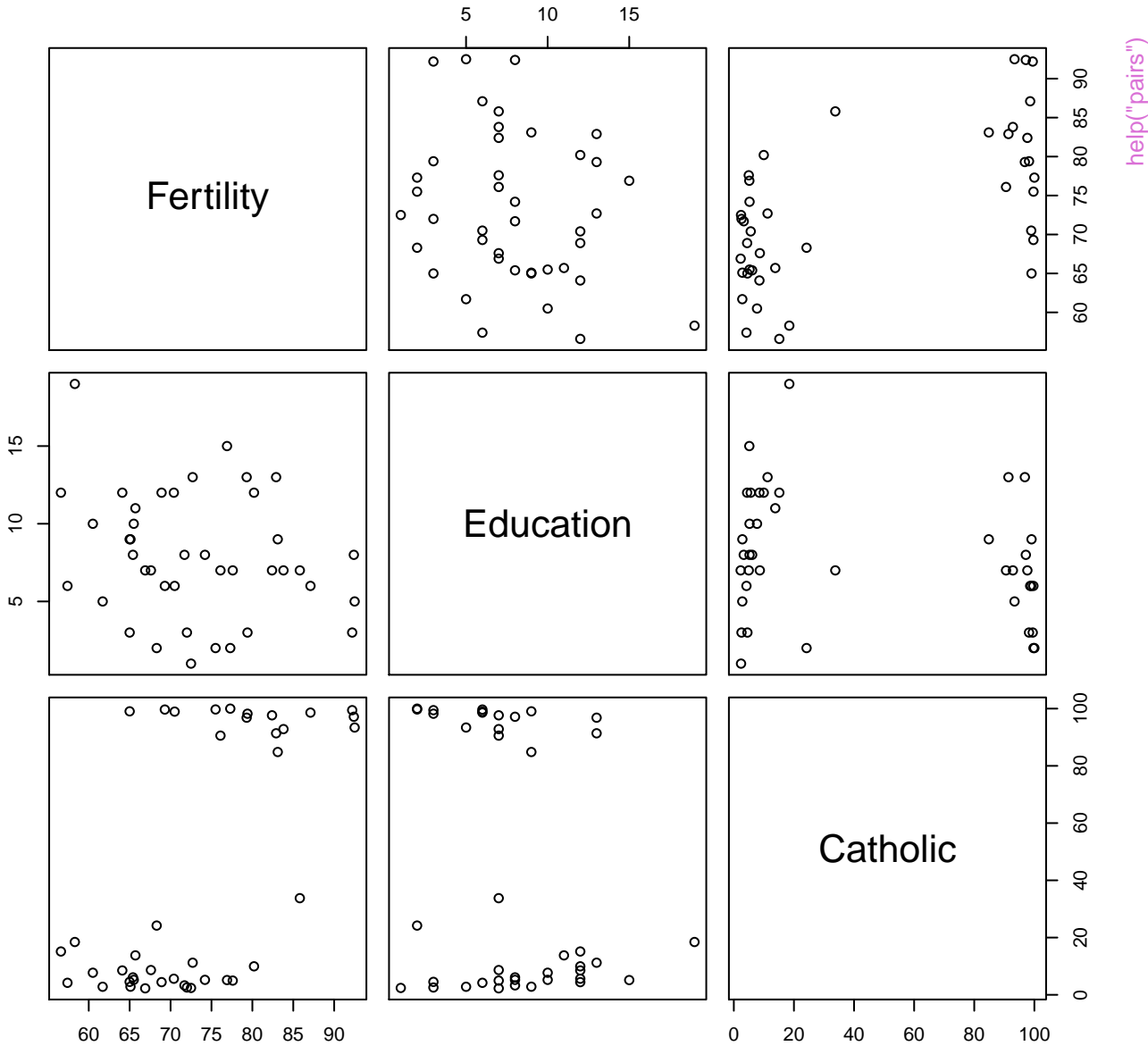




# Anderson's Iris Data -- 3 species

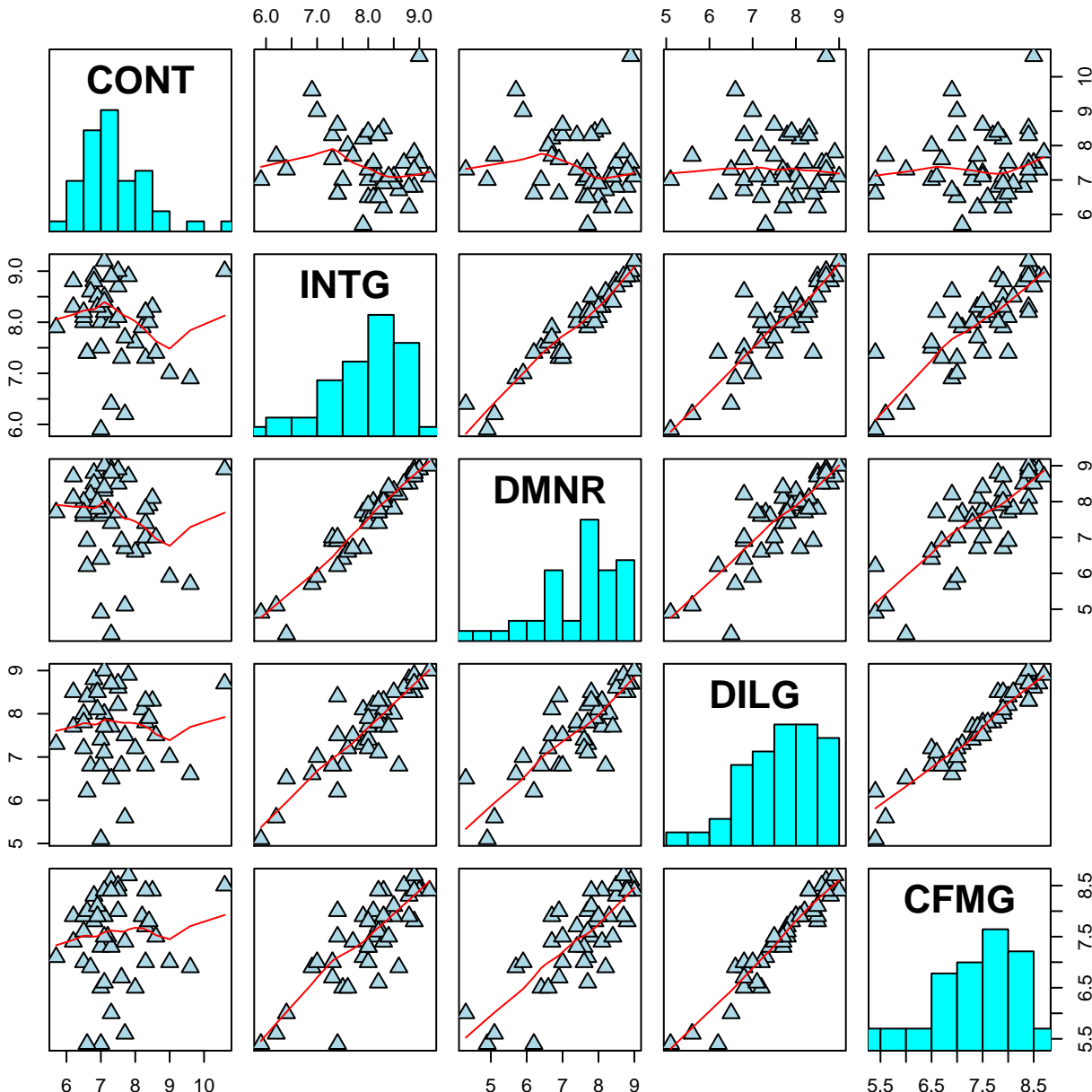


# Swiss data, Education < 20

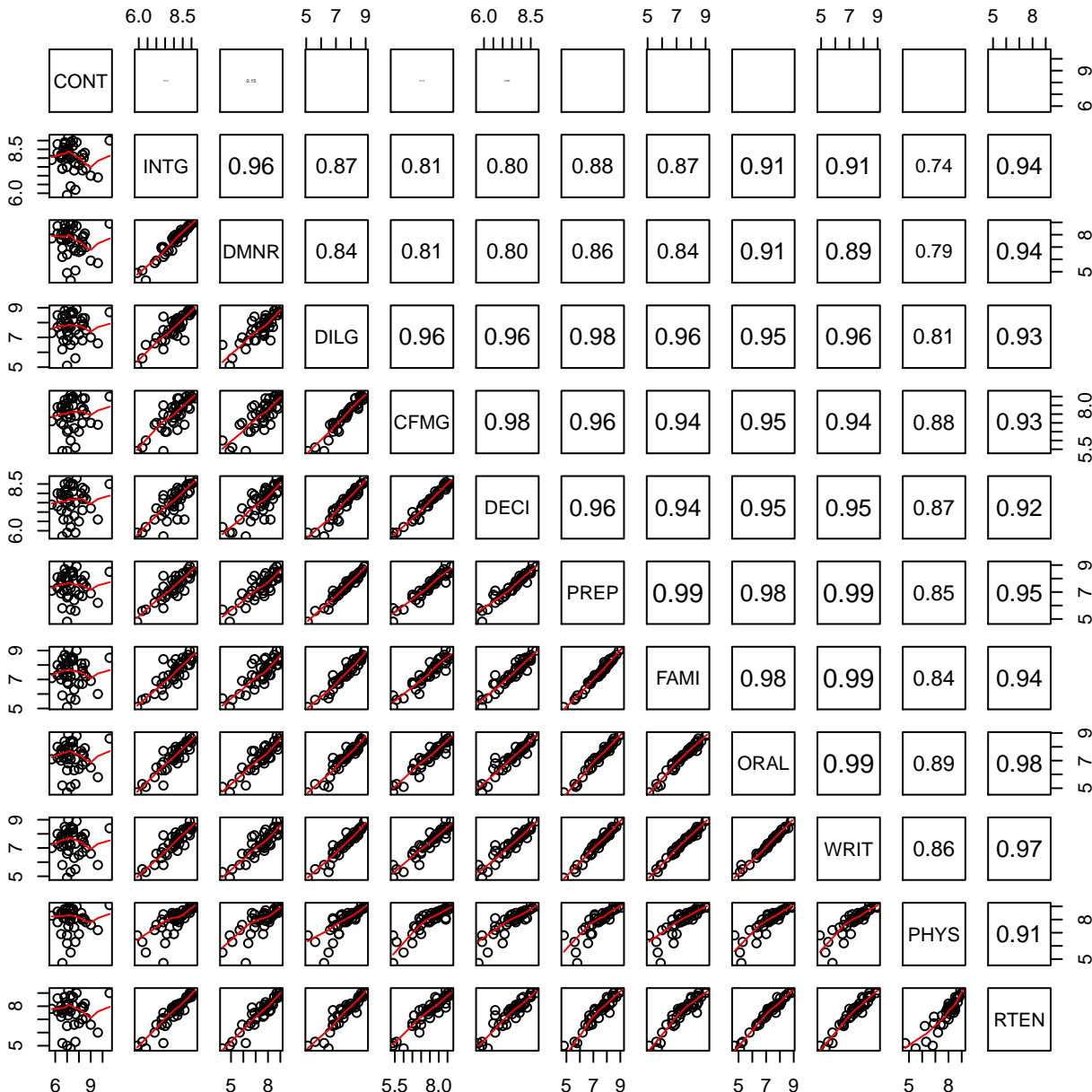








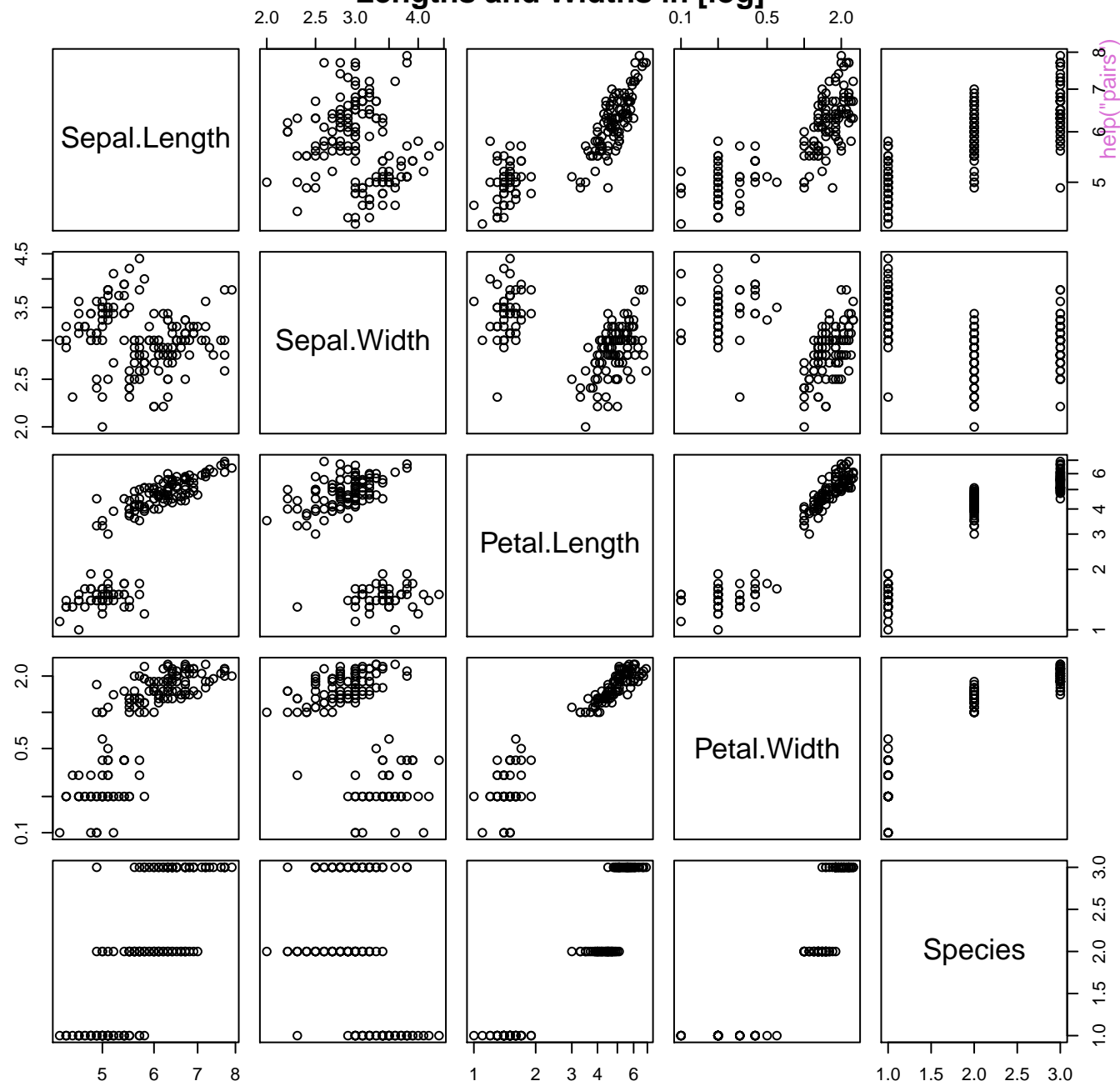
help("pairs")



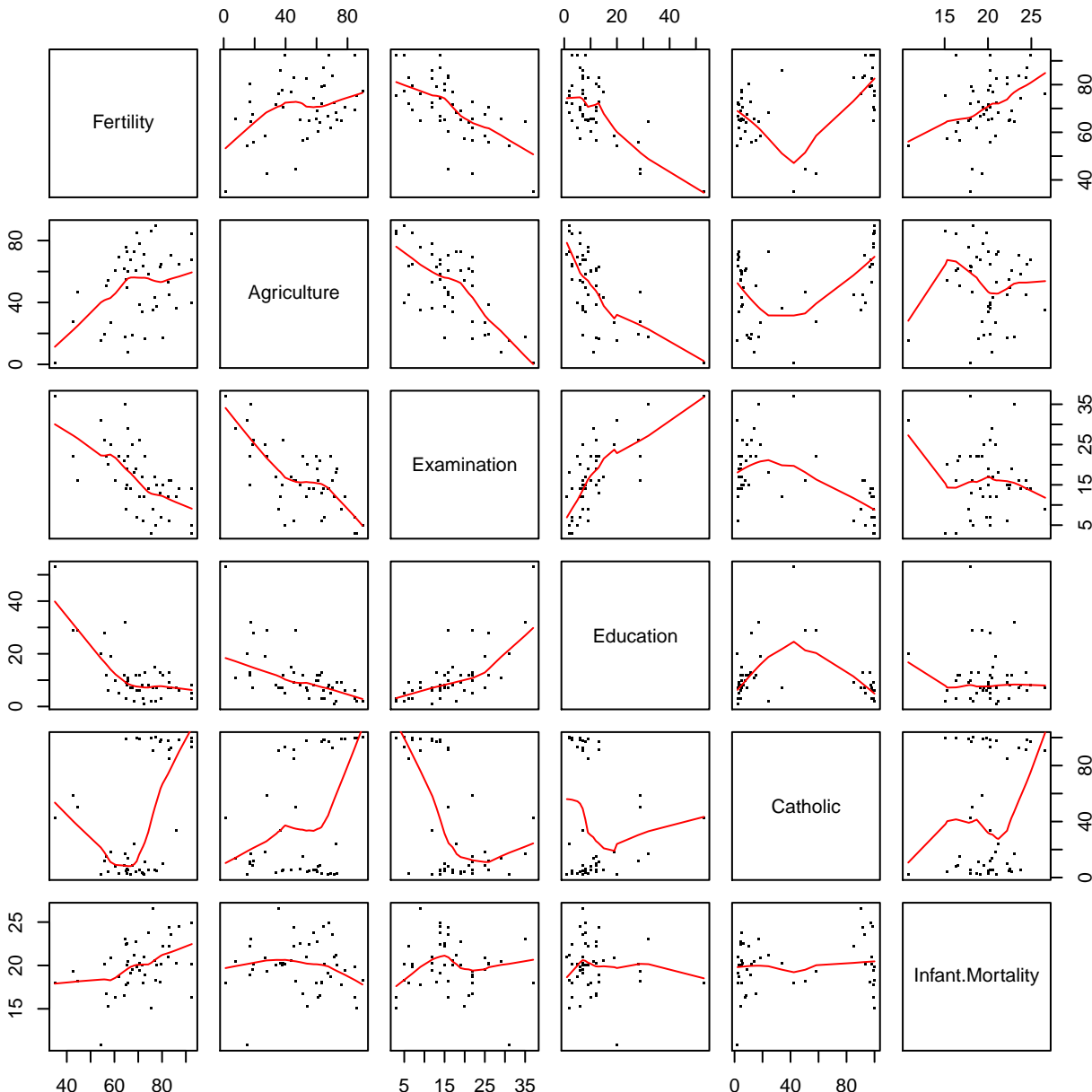
help("pairs")



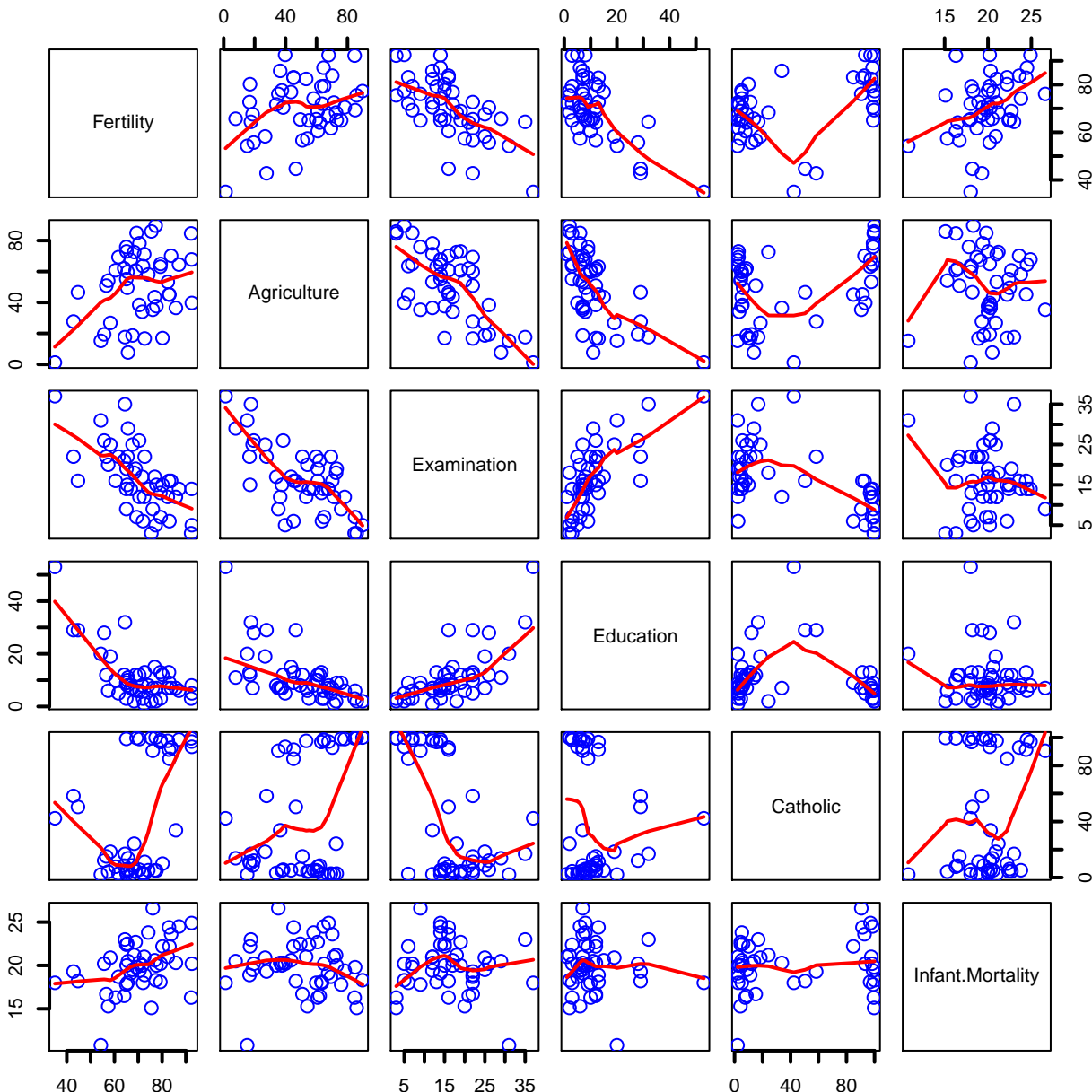
# Lengths and Widths in [log]



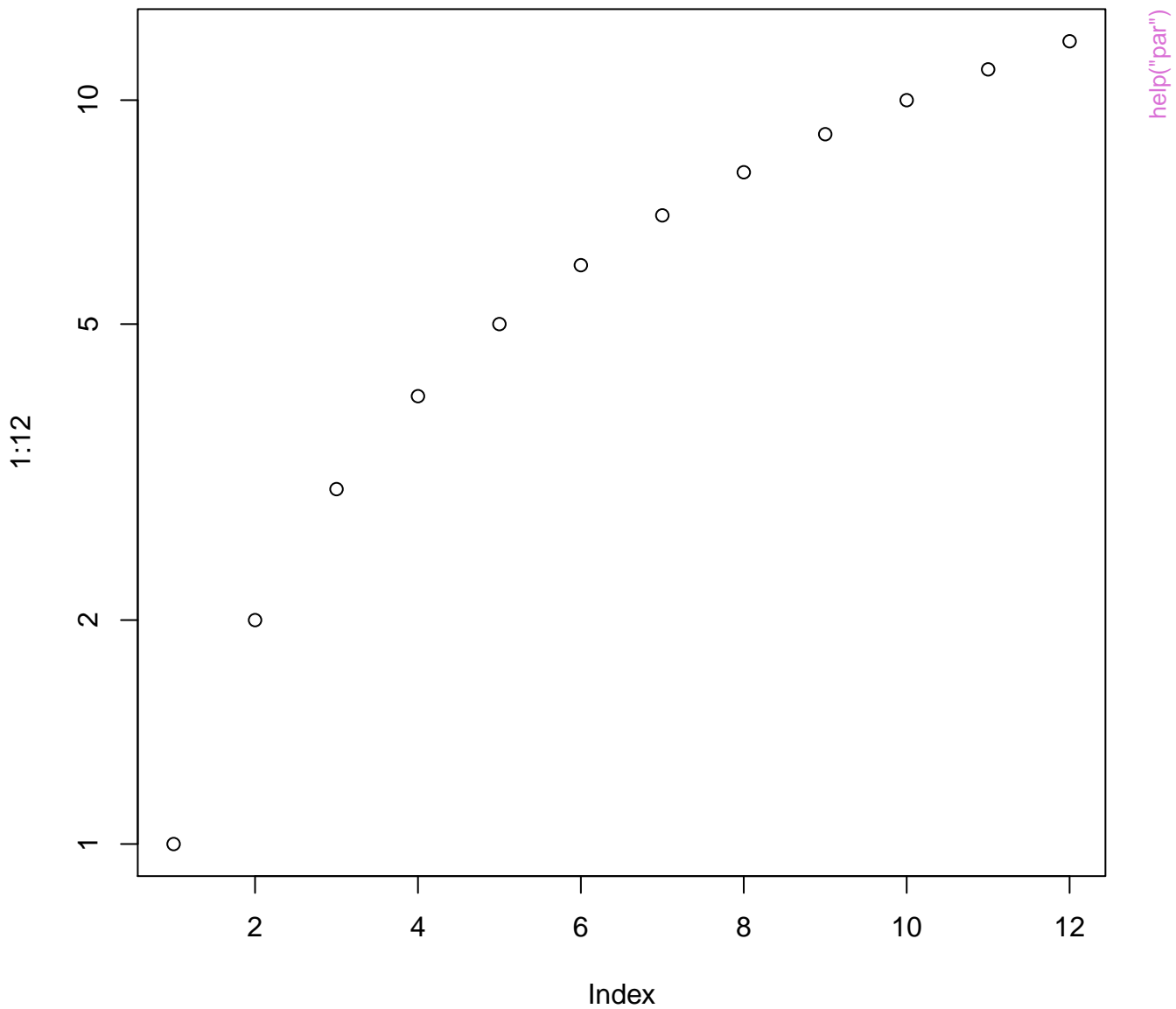


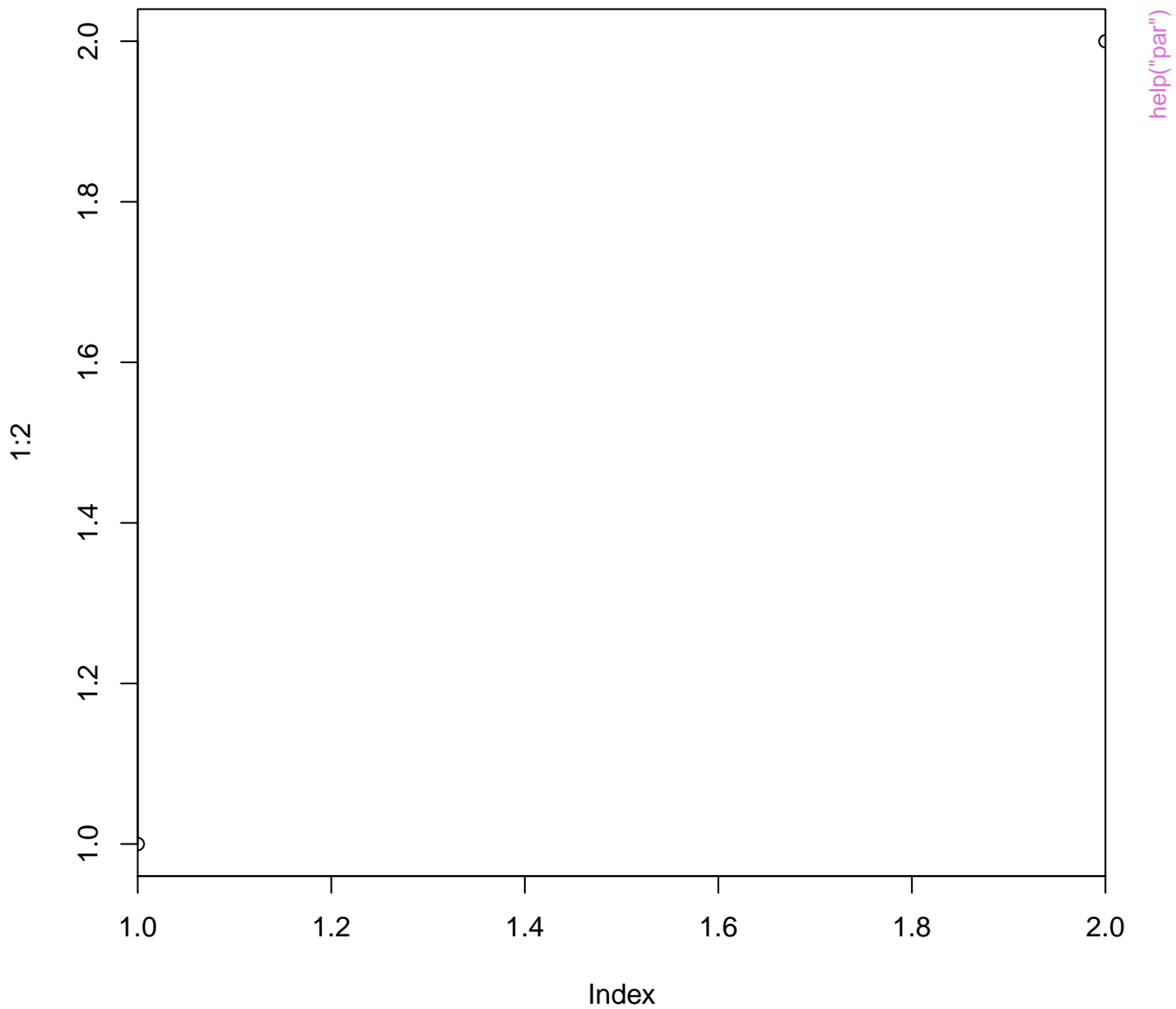


help("panel.smooth")

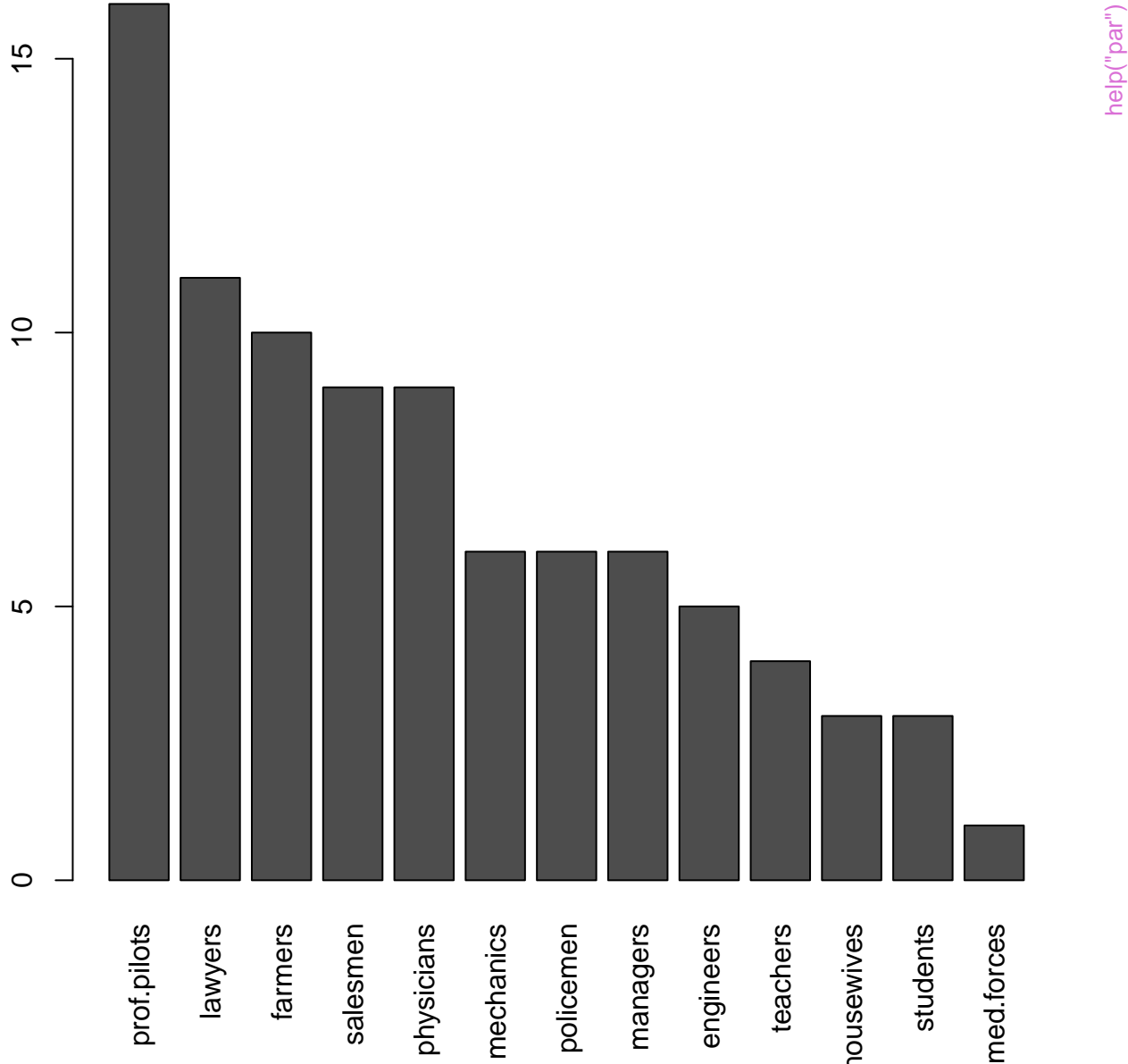


help("panel.smooth")

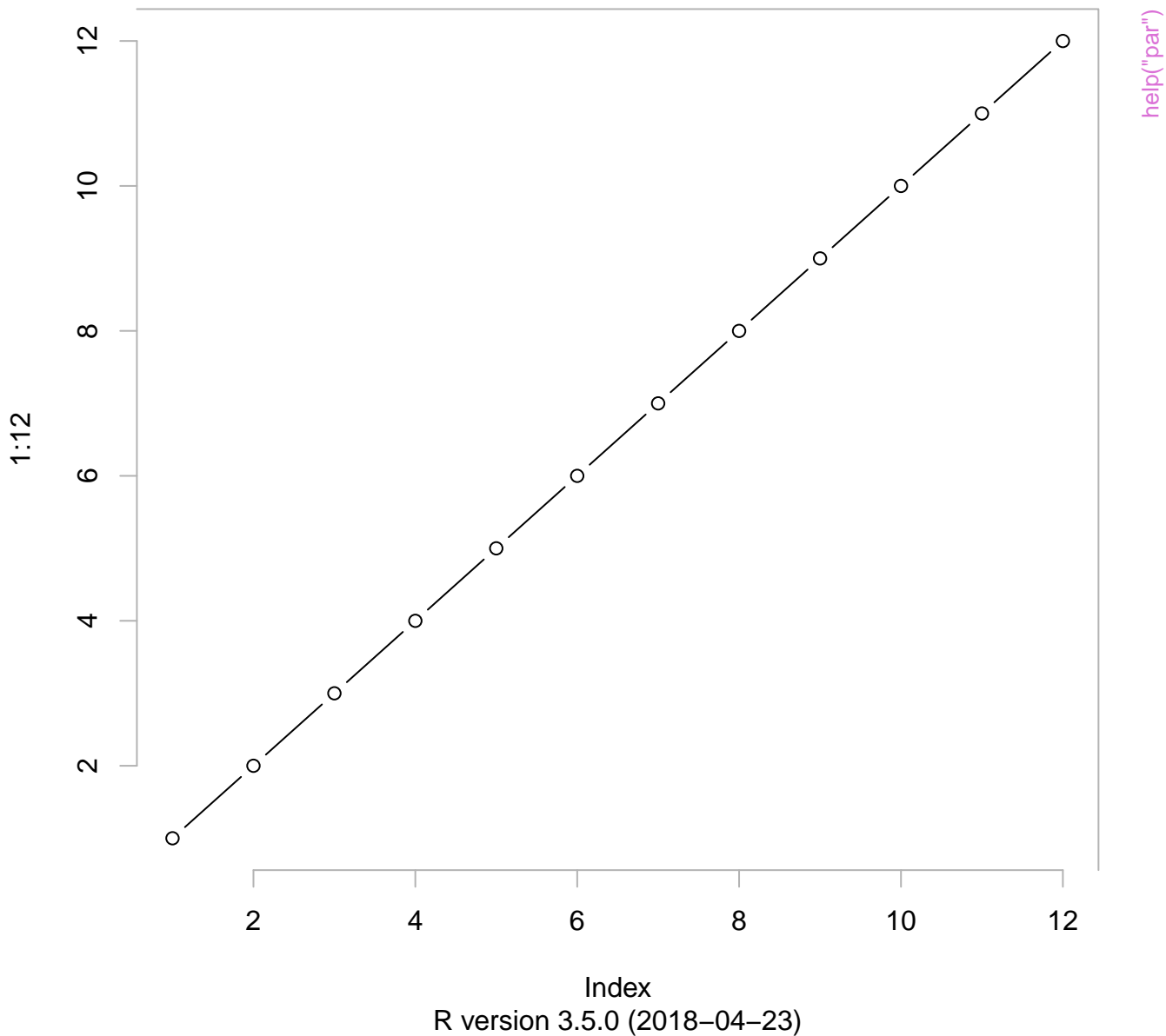


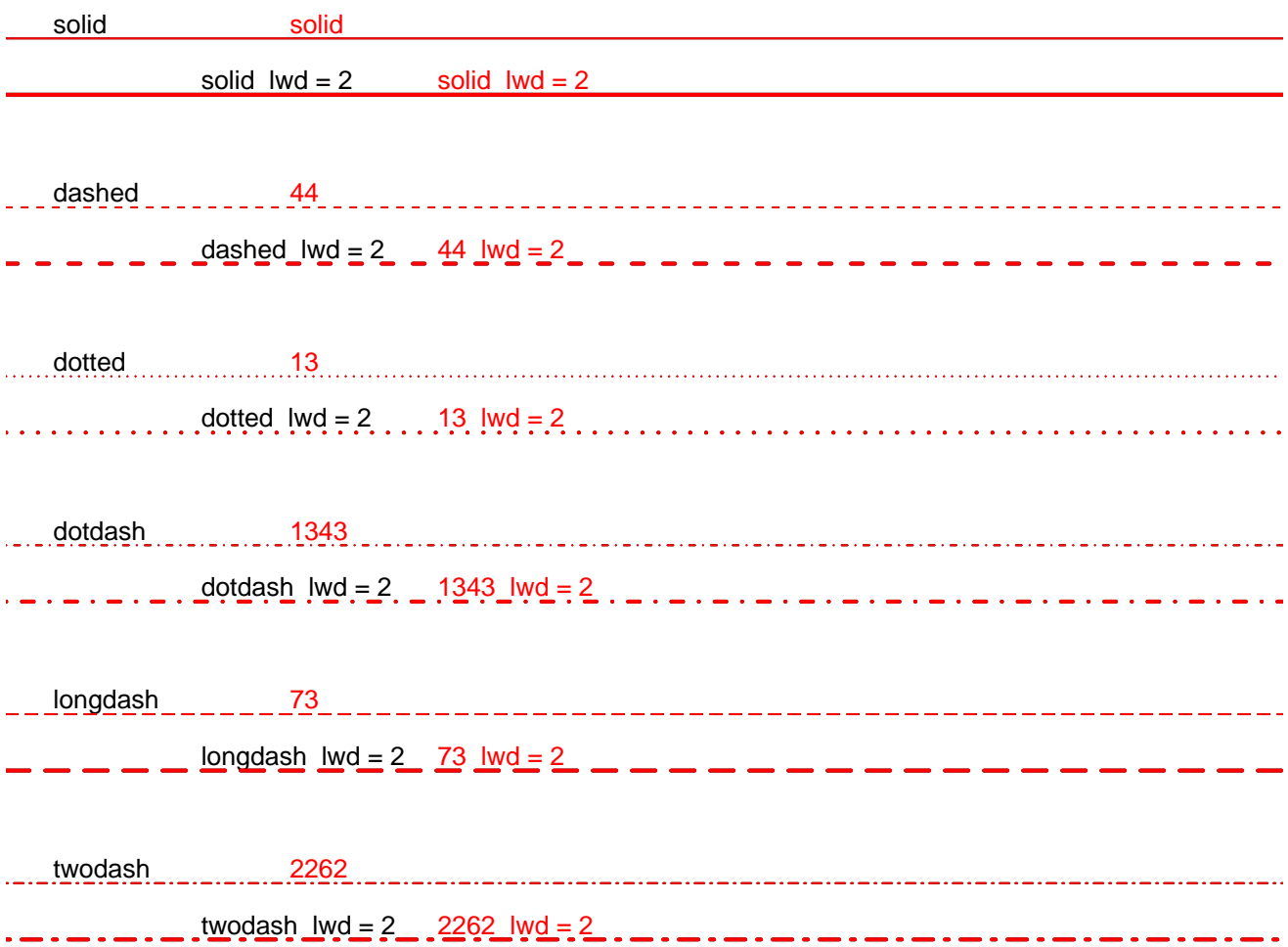


help("par")



**'fg' : axes, ticks and box in gray**





11

11 lwd = 2

22

22 lwd = 2

33

33 lwd = 2

44

44 lwd = 2

12

12 lwd = 2

13

13 lwd = 2

14

14 lwd = 2

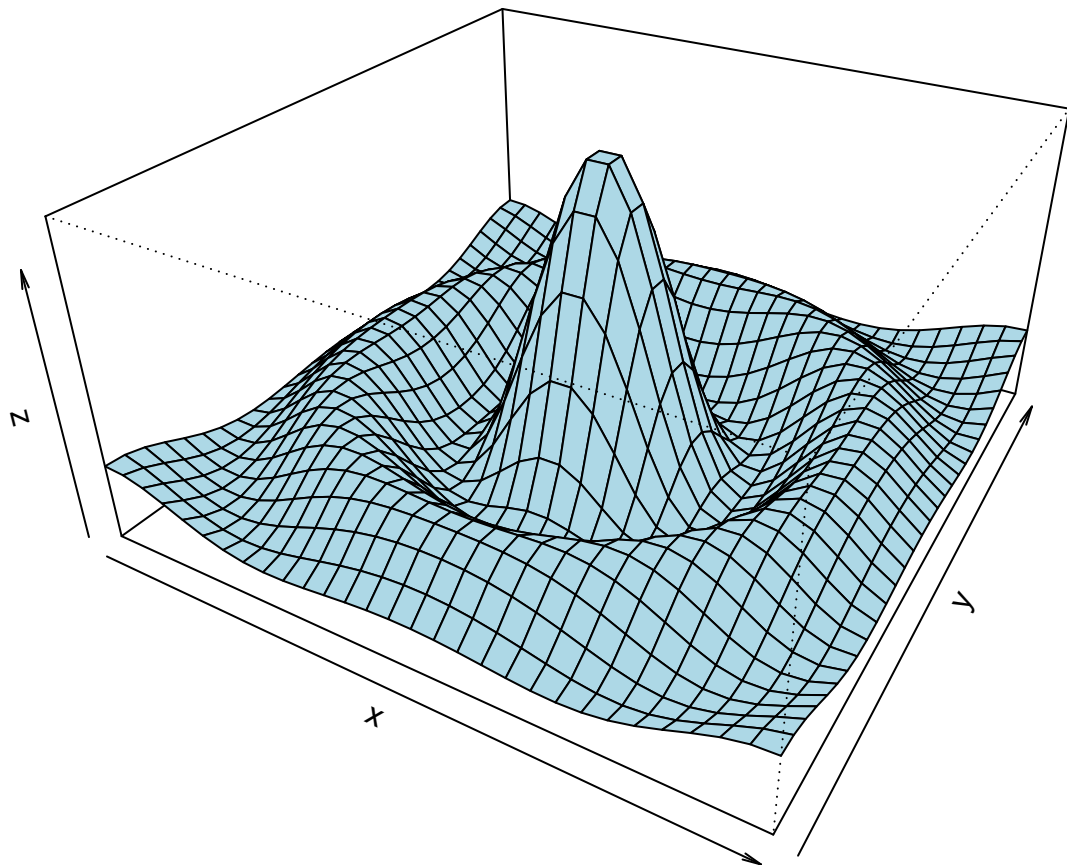
21

21 lwd = 2

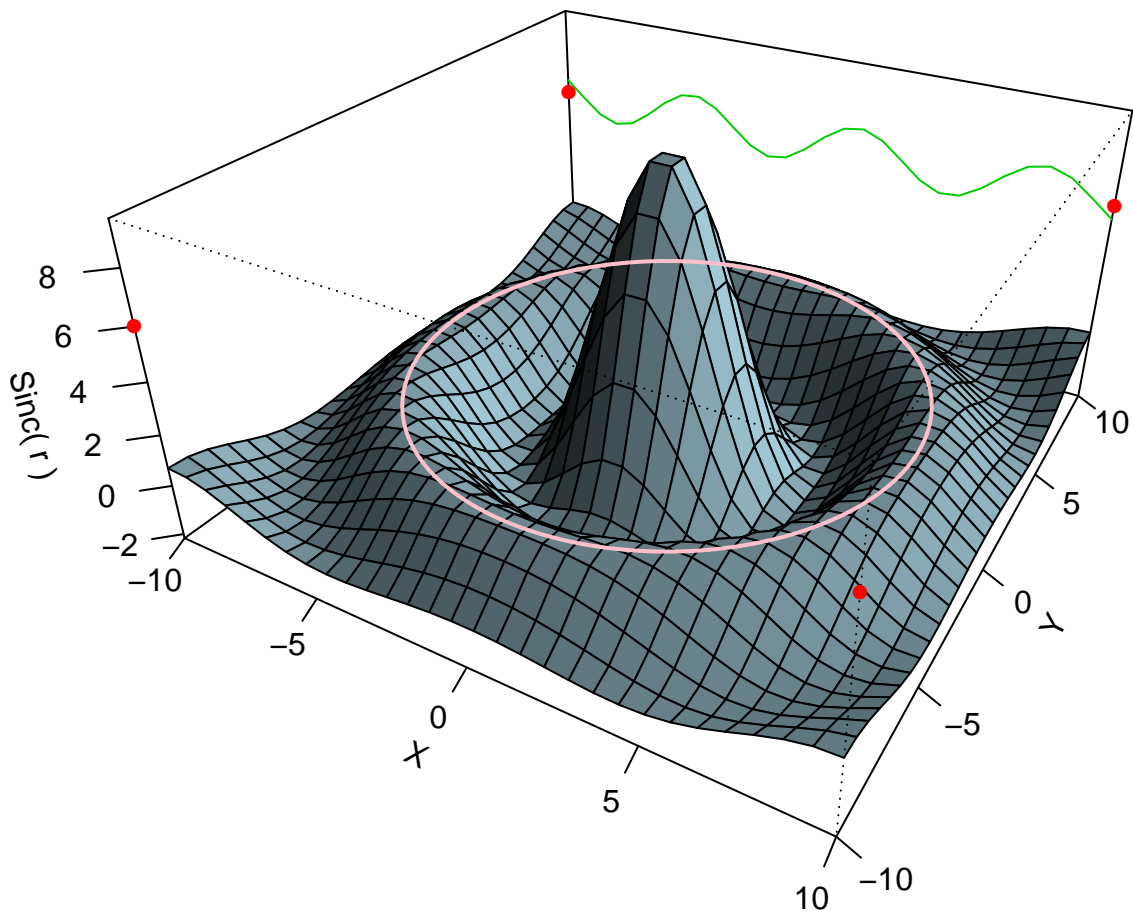
31

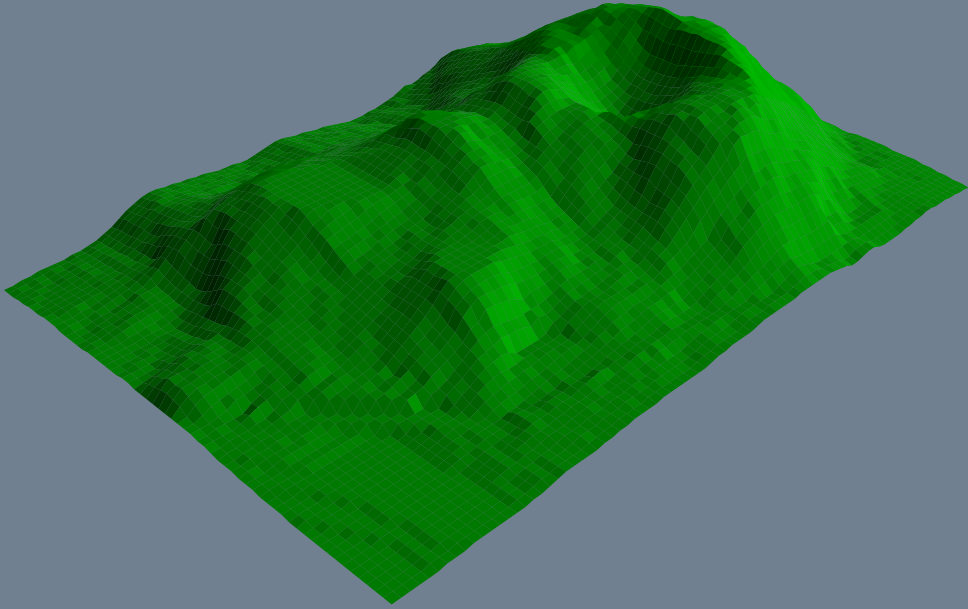
31 lwd = 2



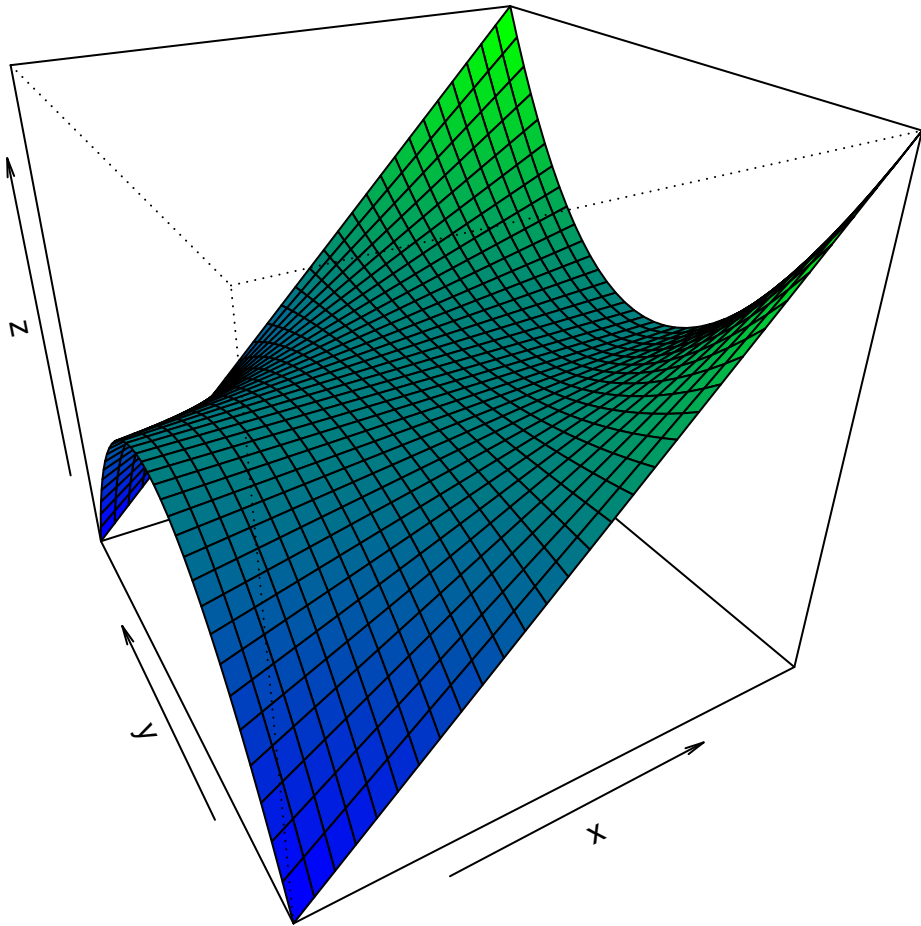


`help("persp")`

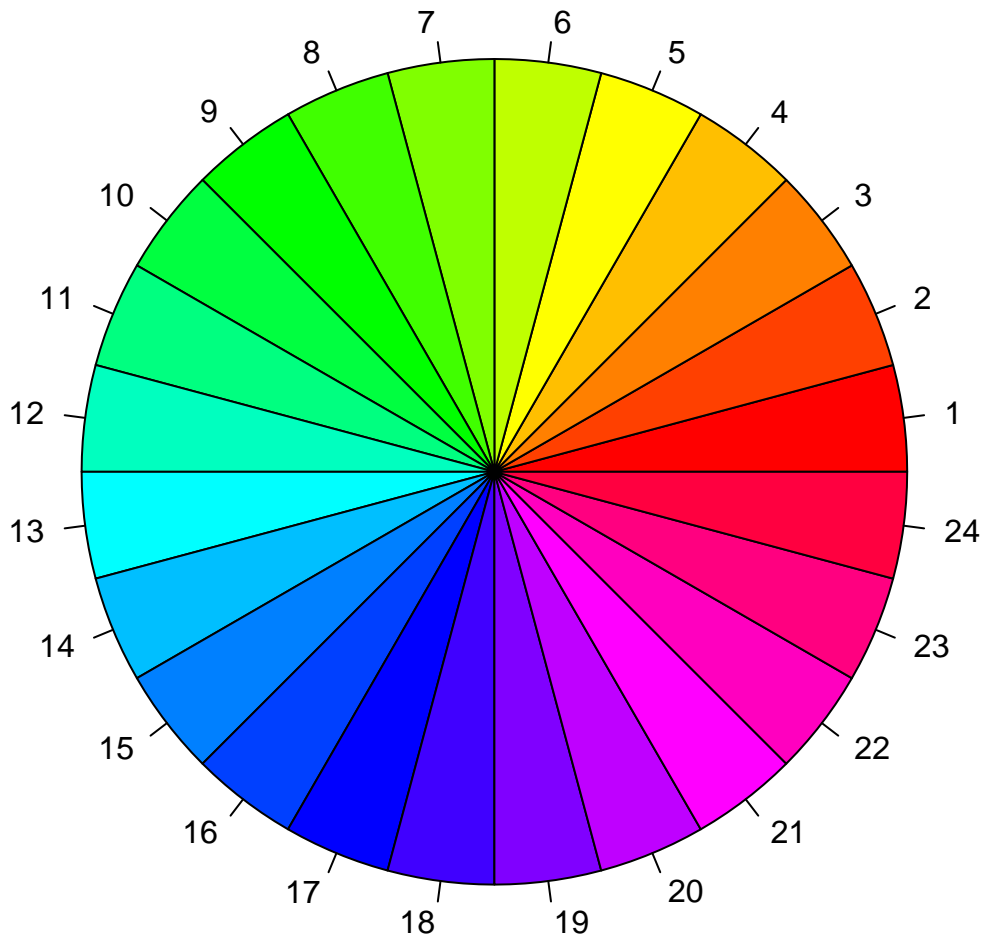




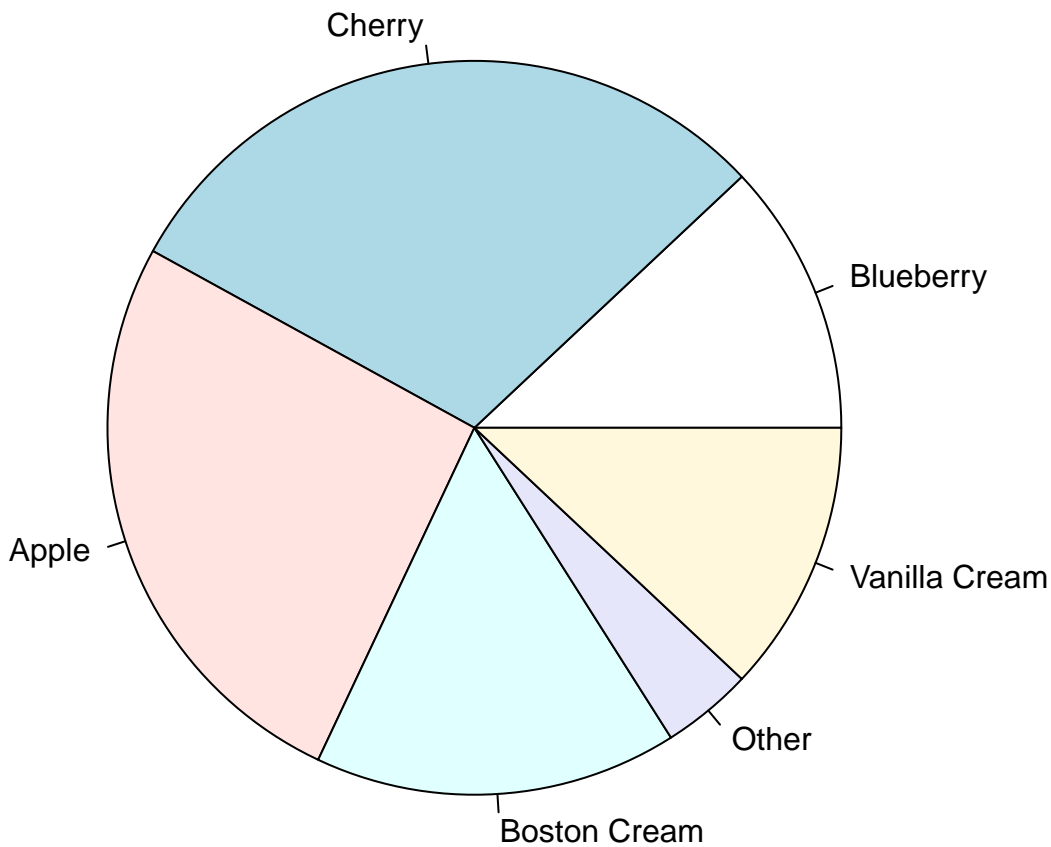
help("persp")

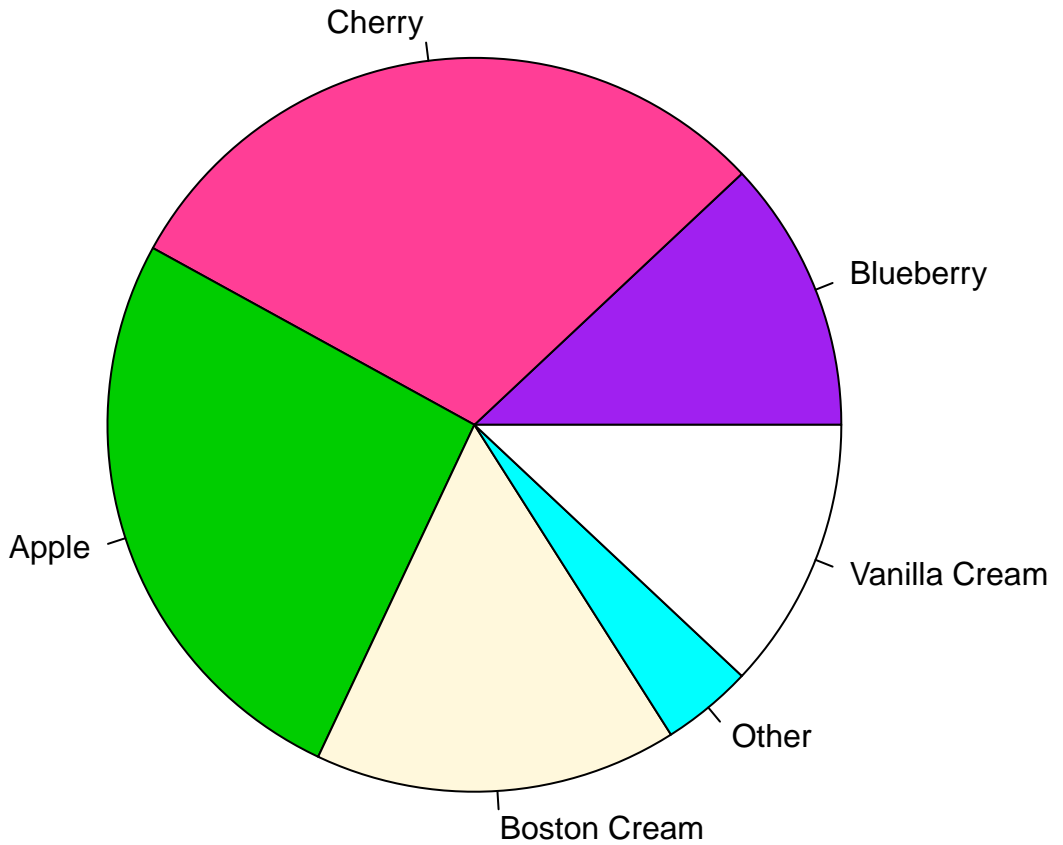


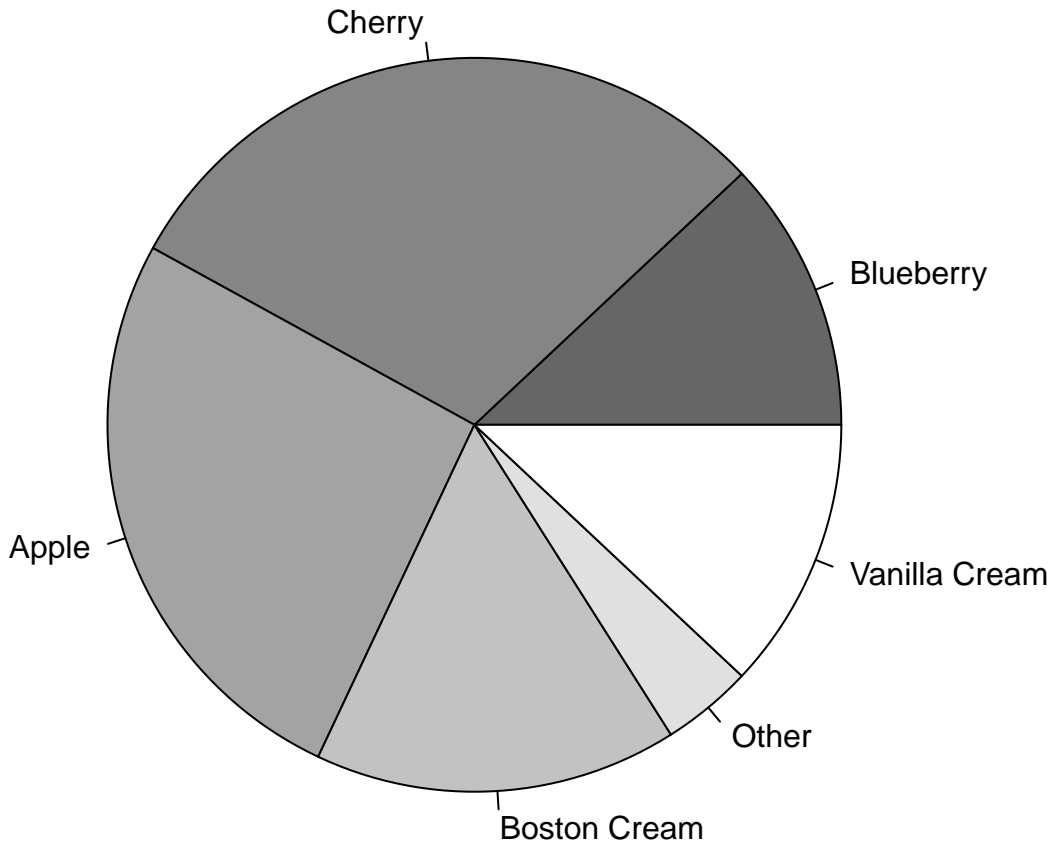
`help("persp")`



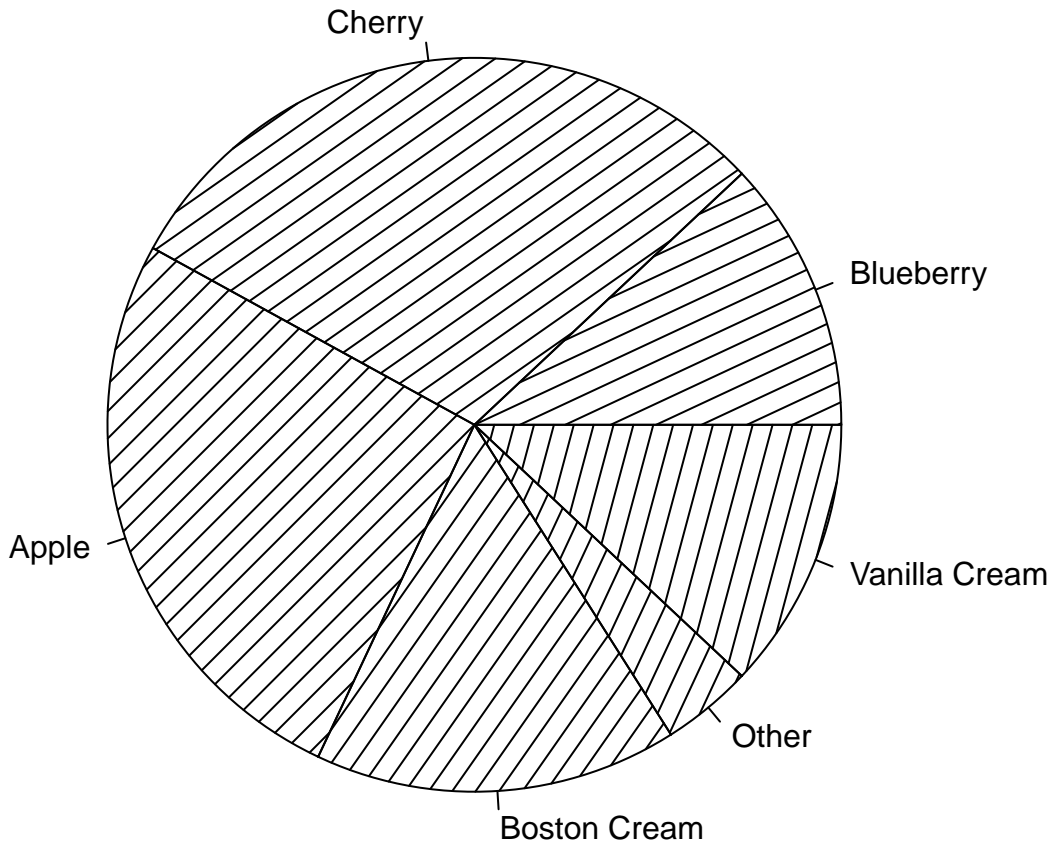
help("pie")





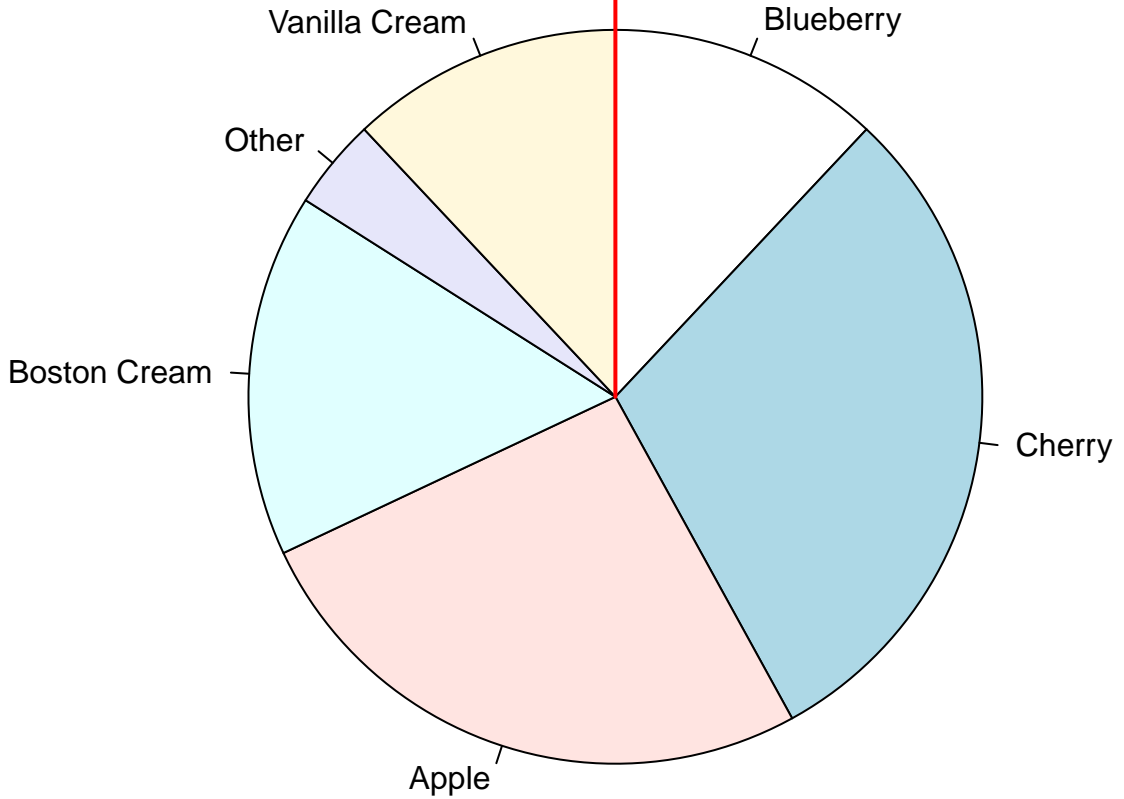






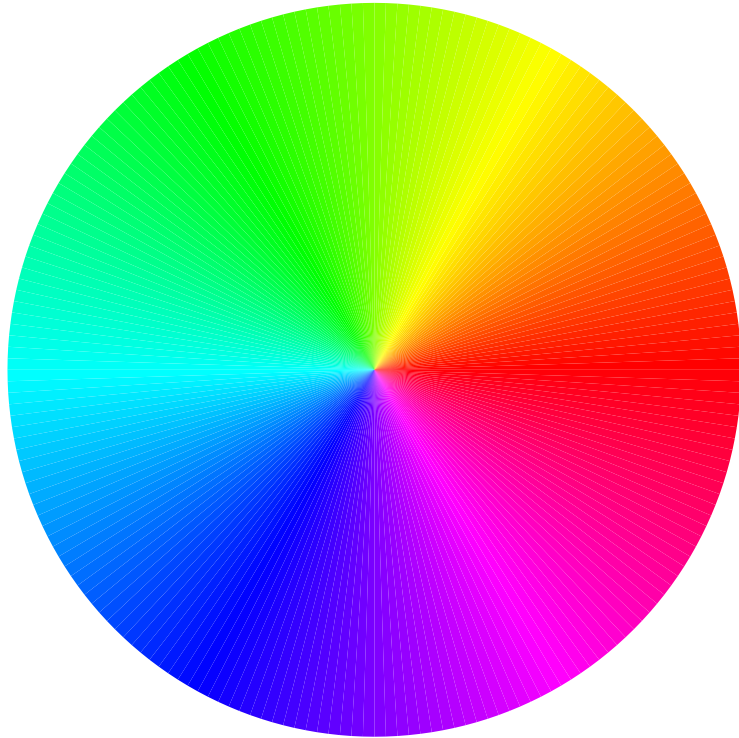
**pie(\*, clockwise = TRUE)**

init.angle = 90

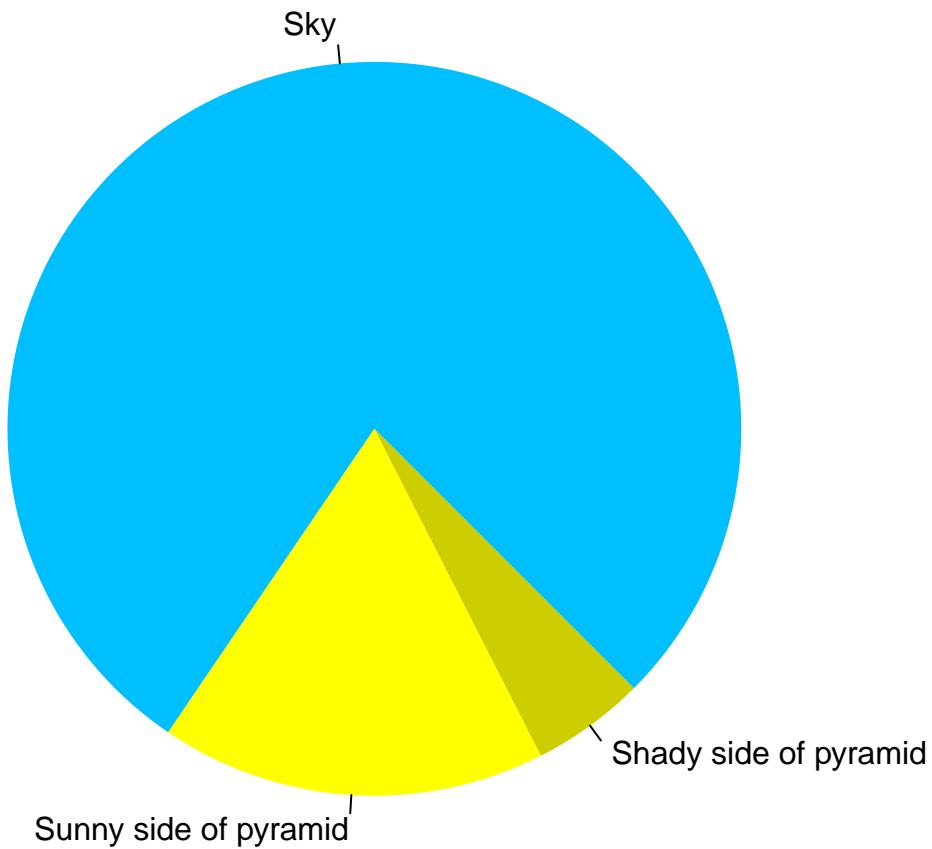


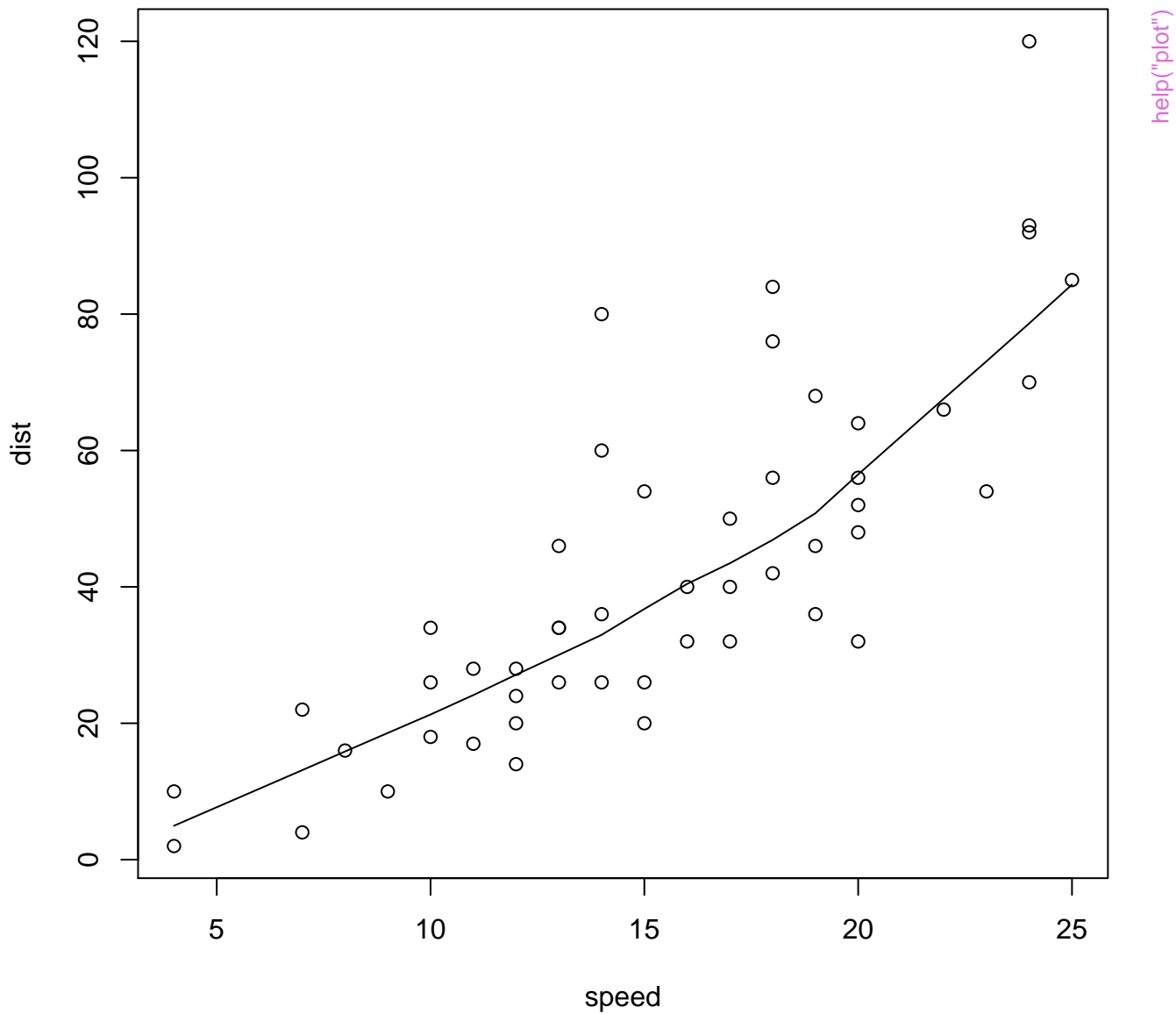
help("pie")

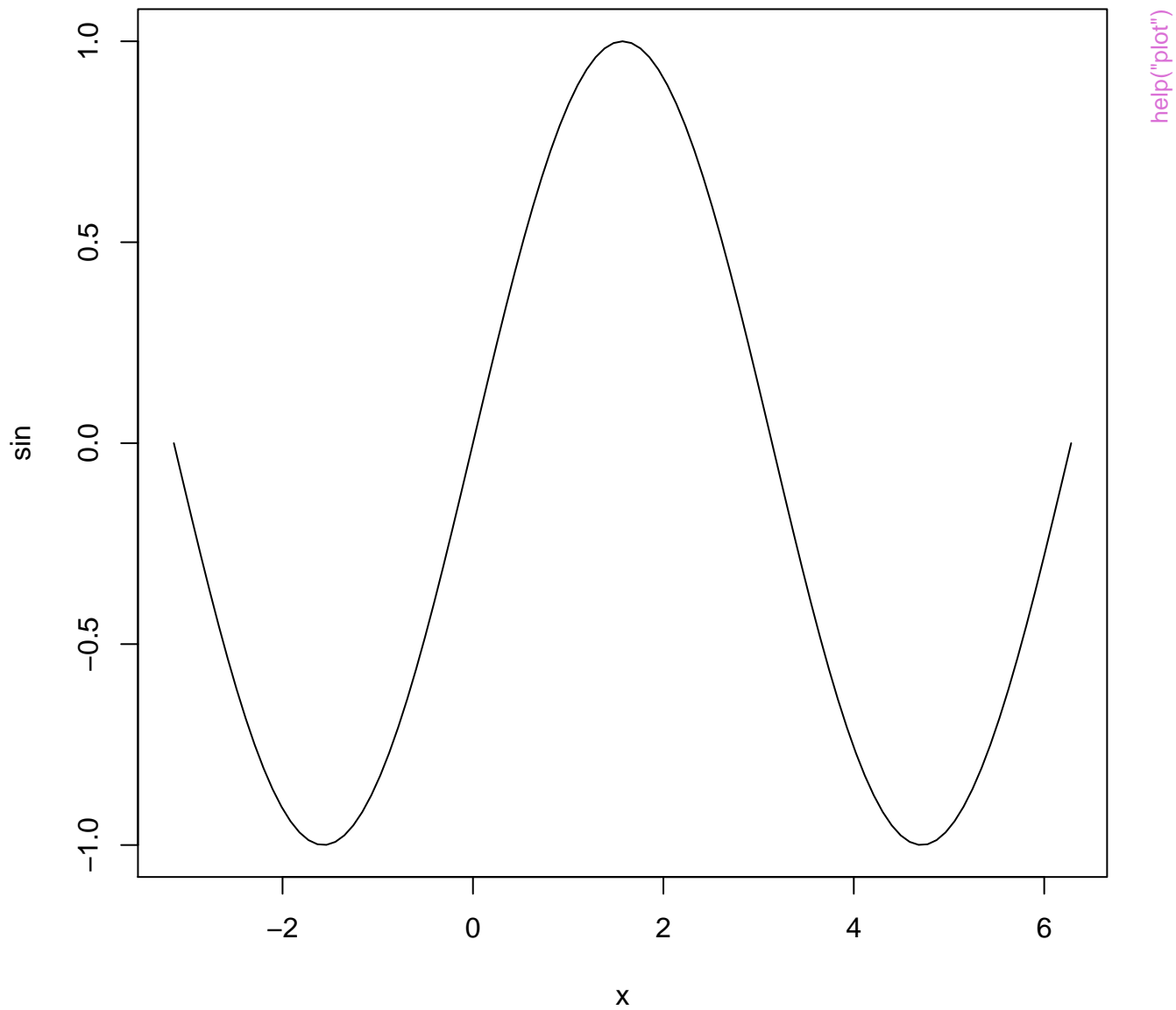
```
pie(*, labels="", col=rainbow(n), border=NA,..
```



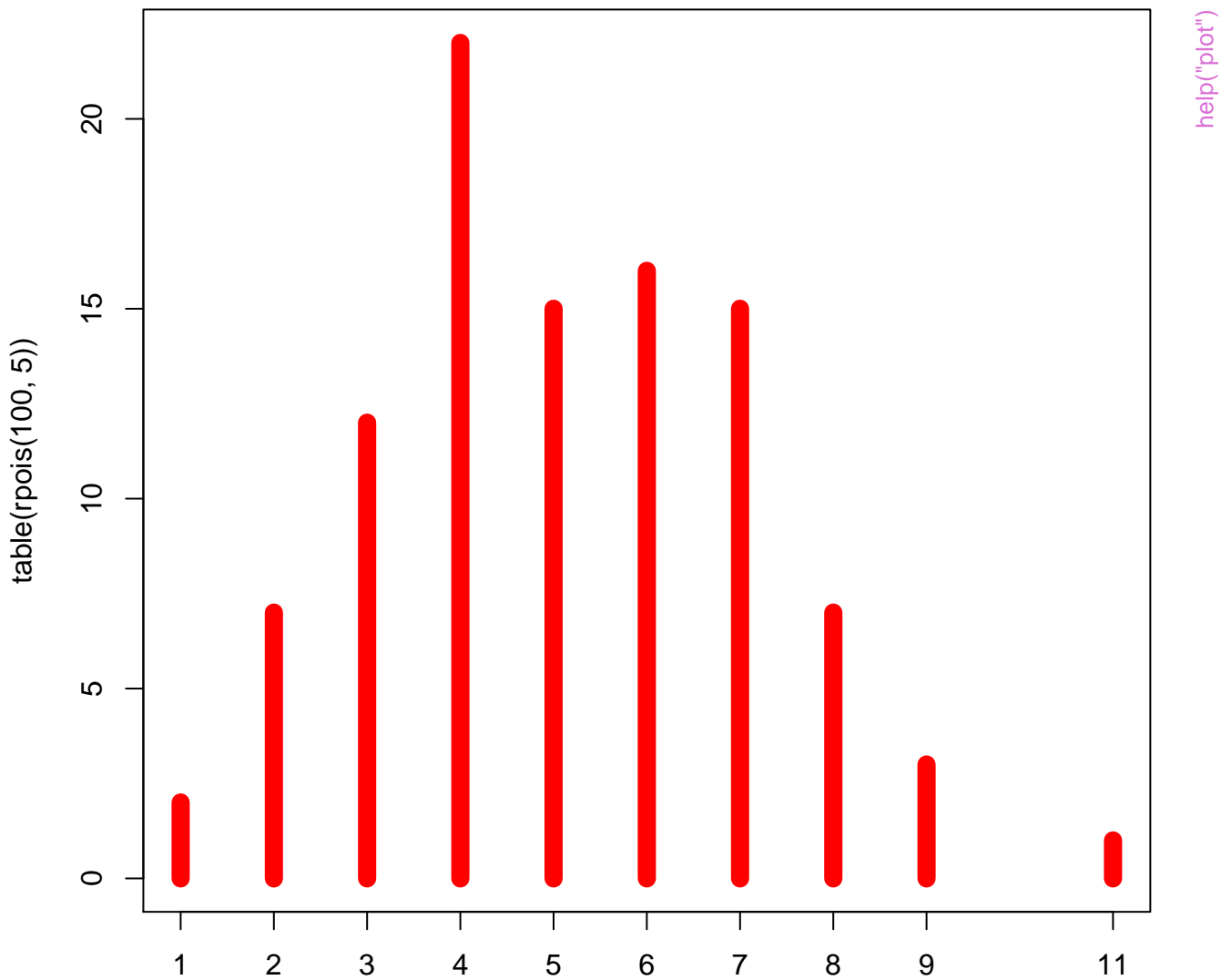
help("pie")





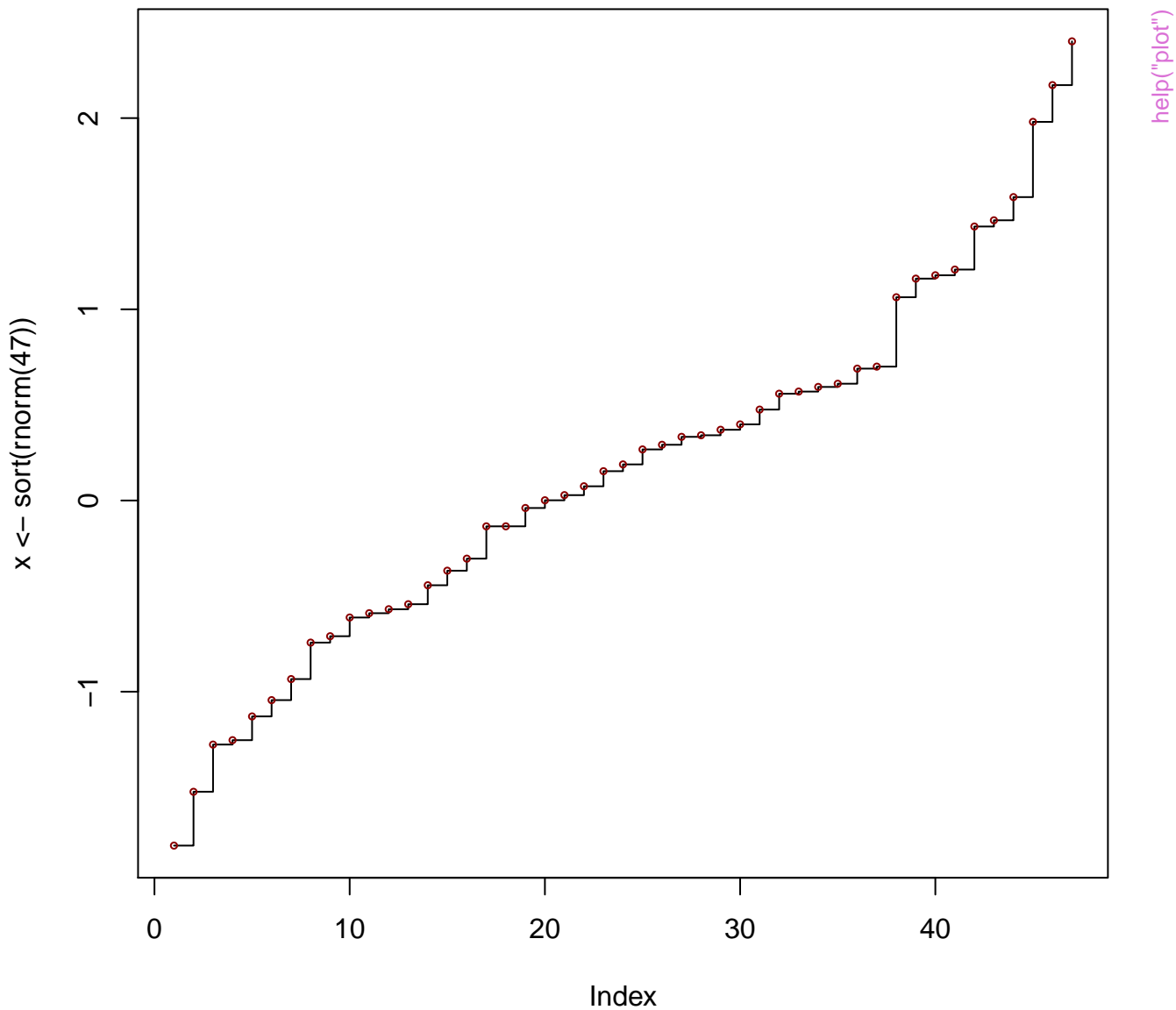


**rpois(100, lambda = 5)**

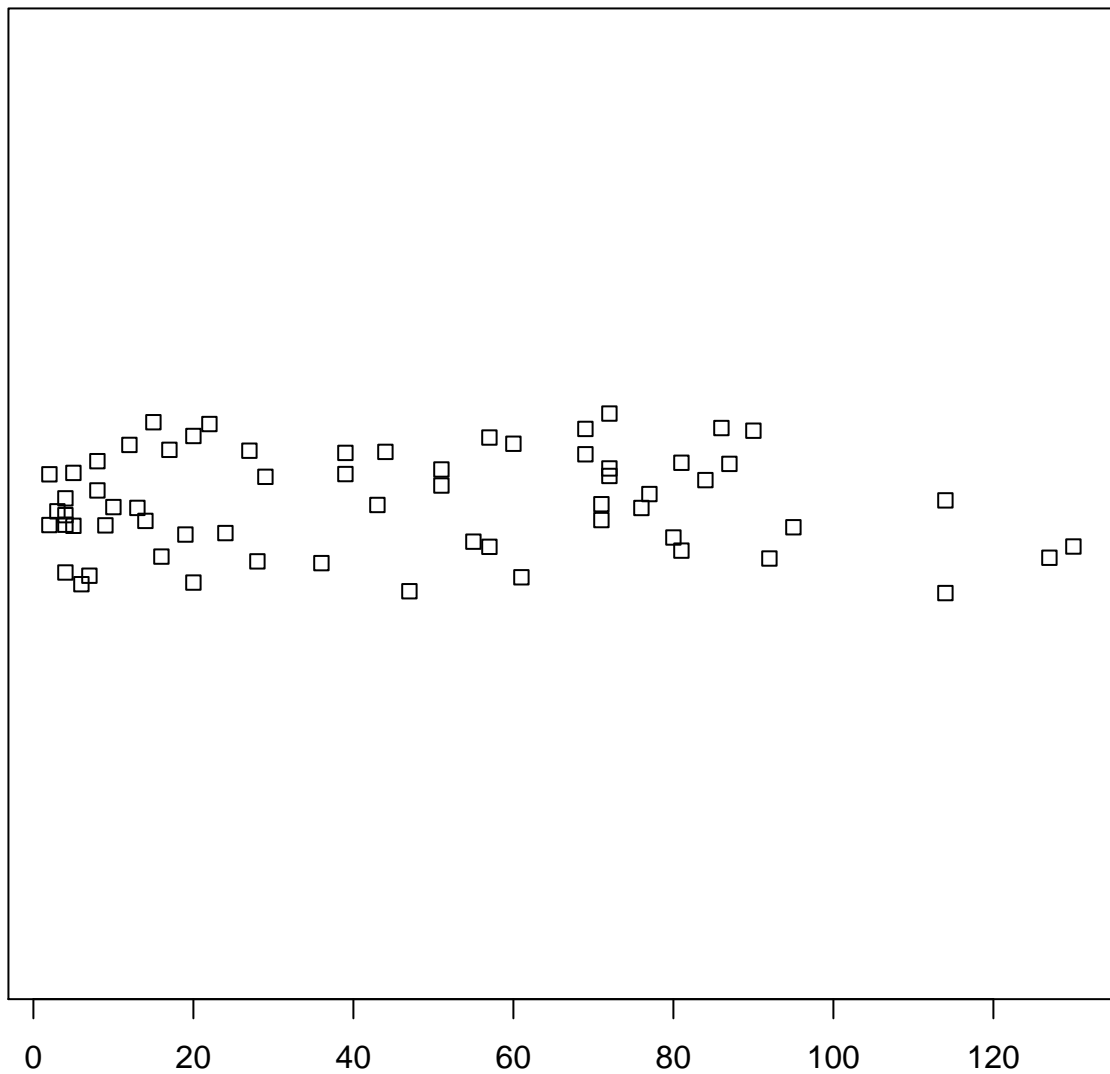


help("plot")

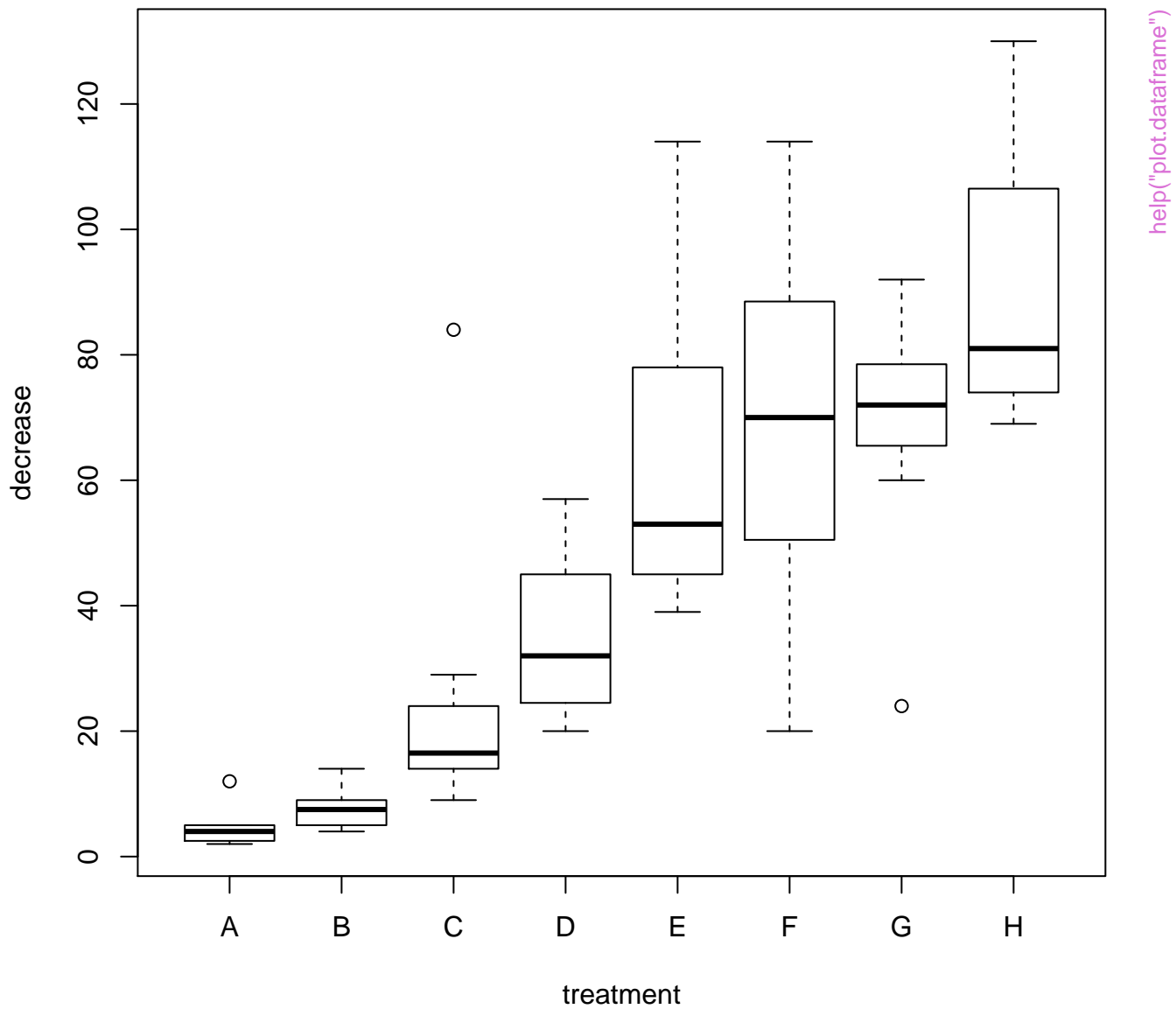
`plot(x, type = "s")`

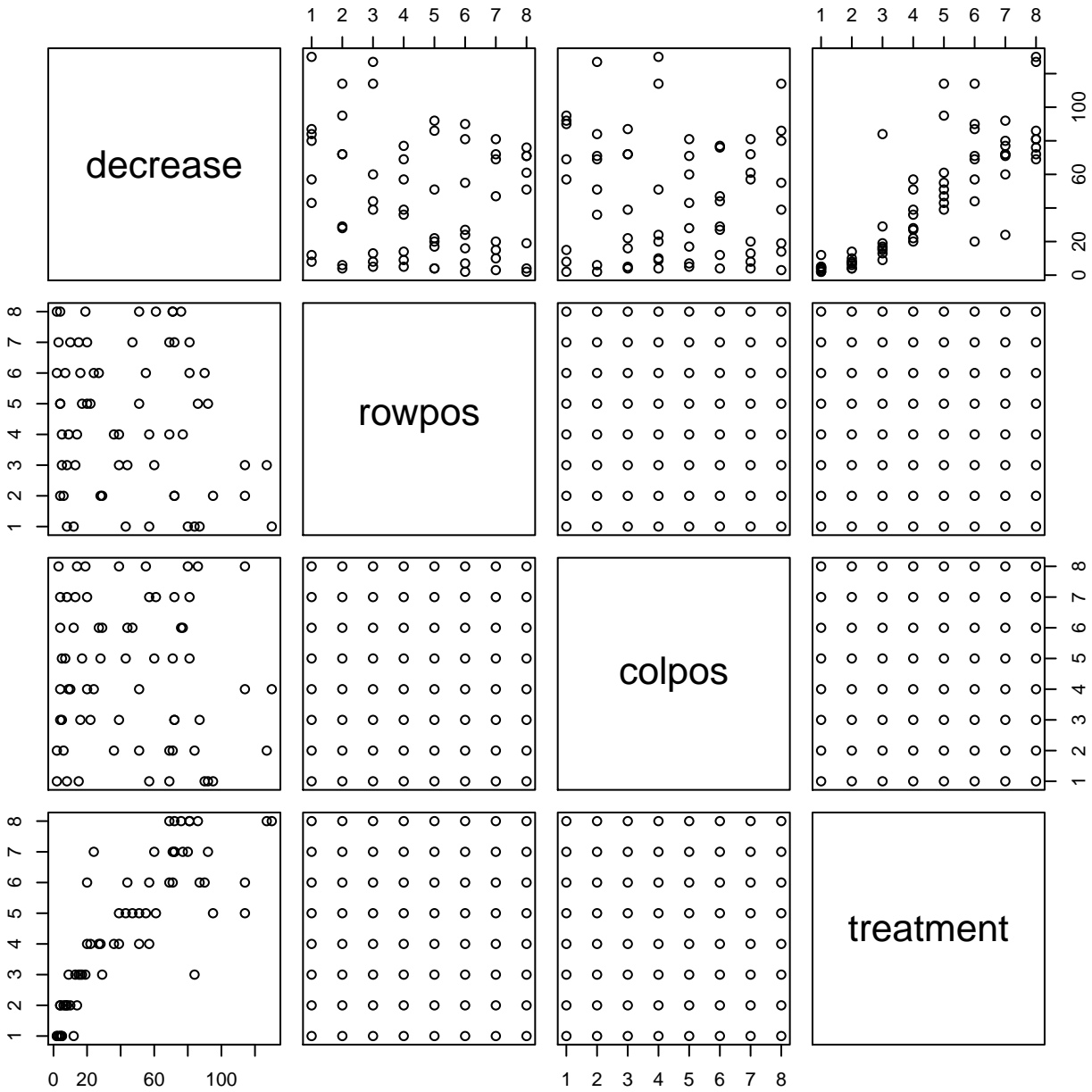




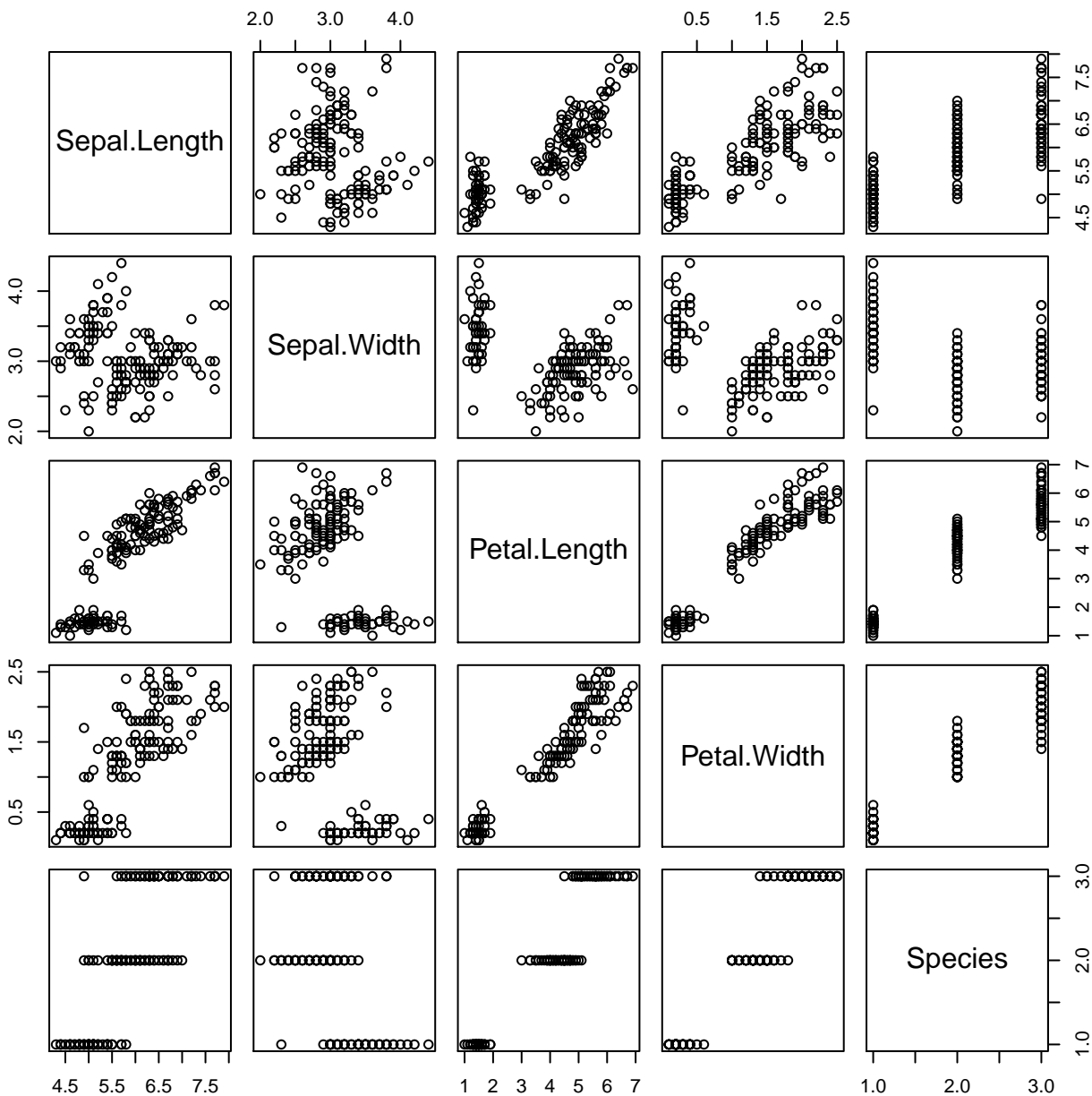


help("plot.dataframe")

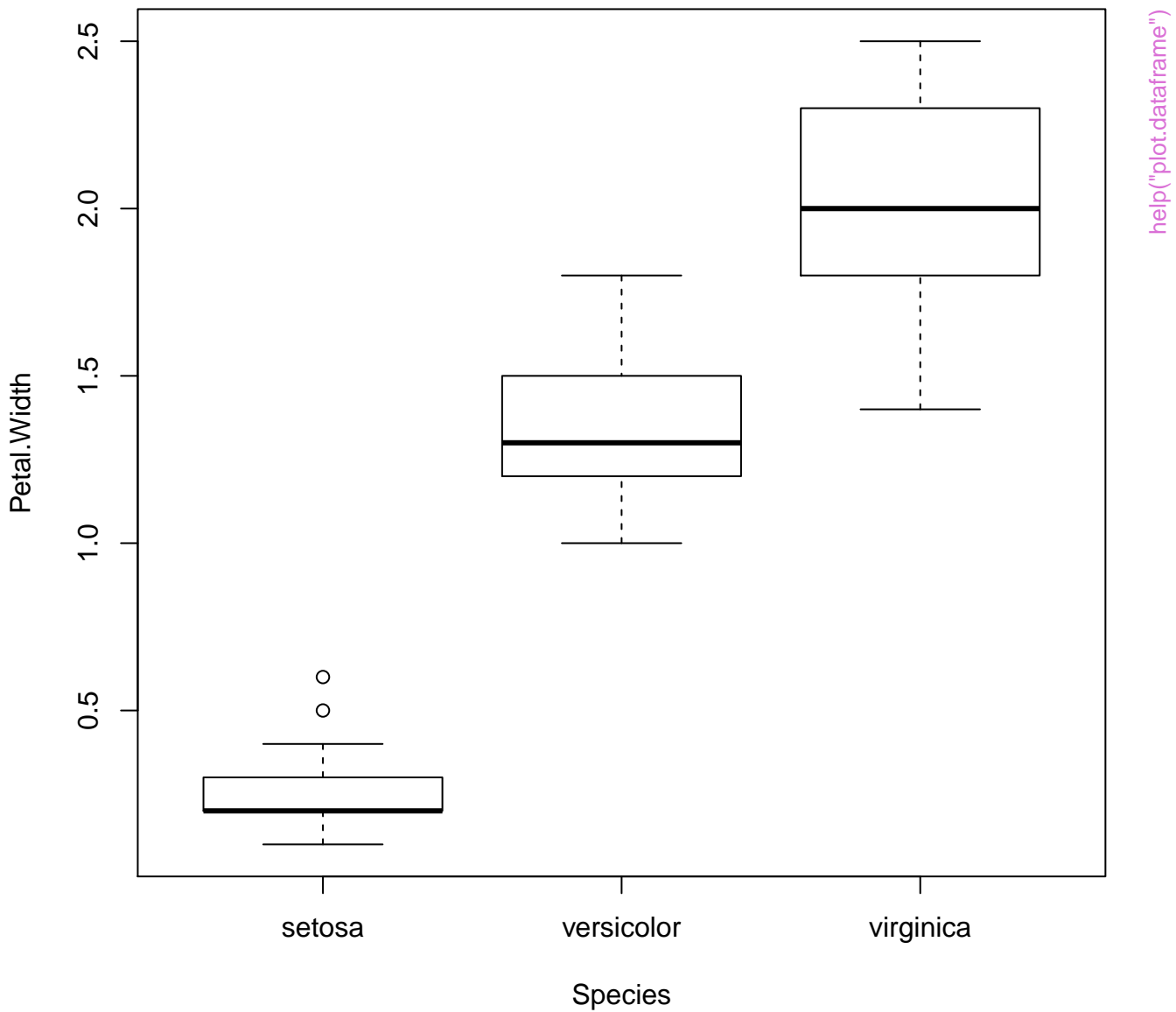


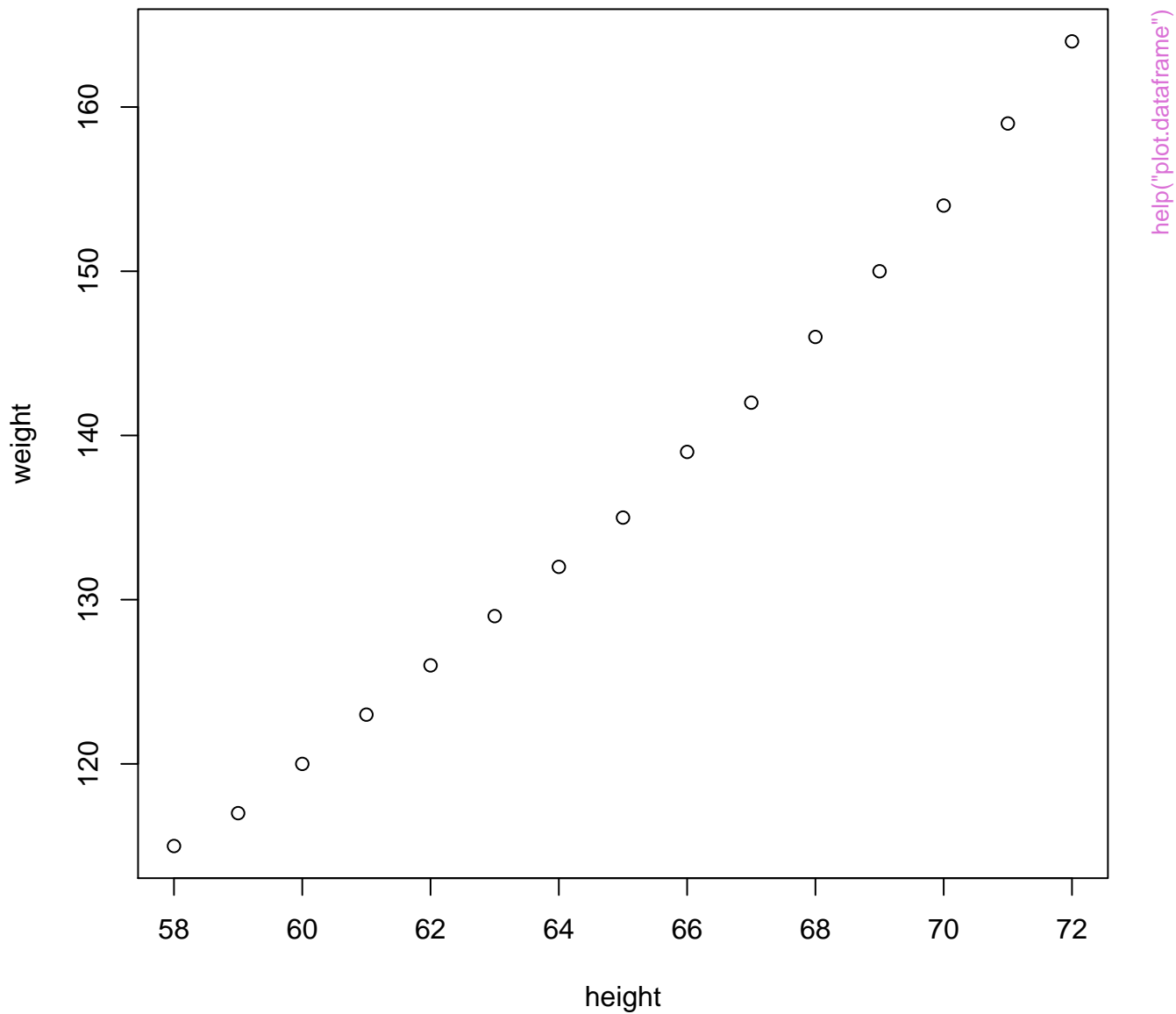


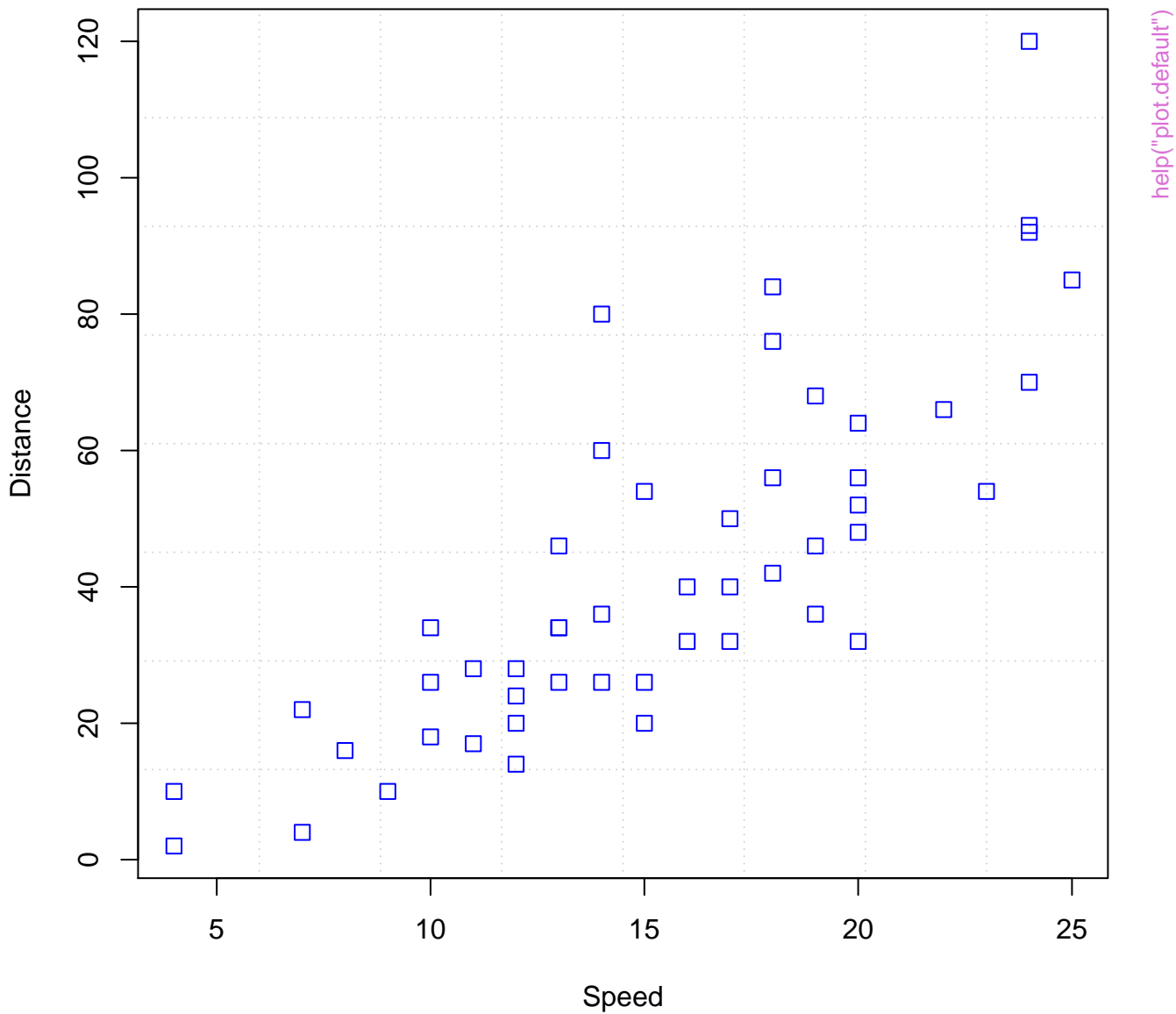
help("plot.dataframe")

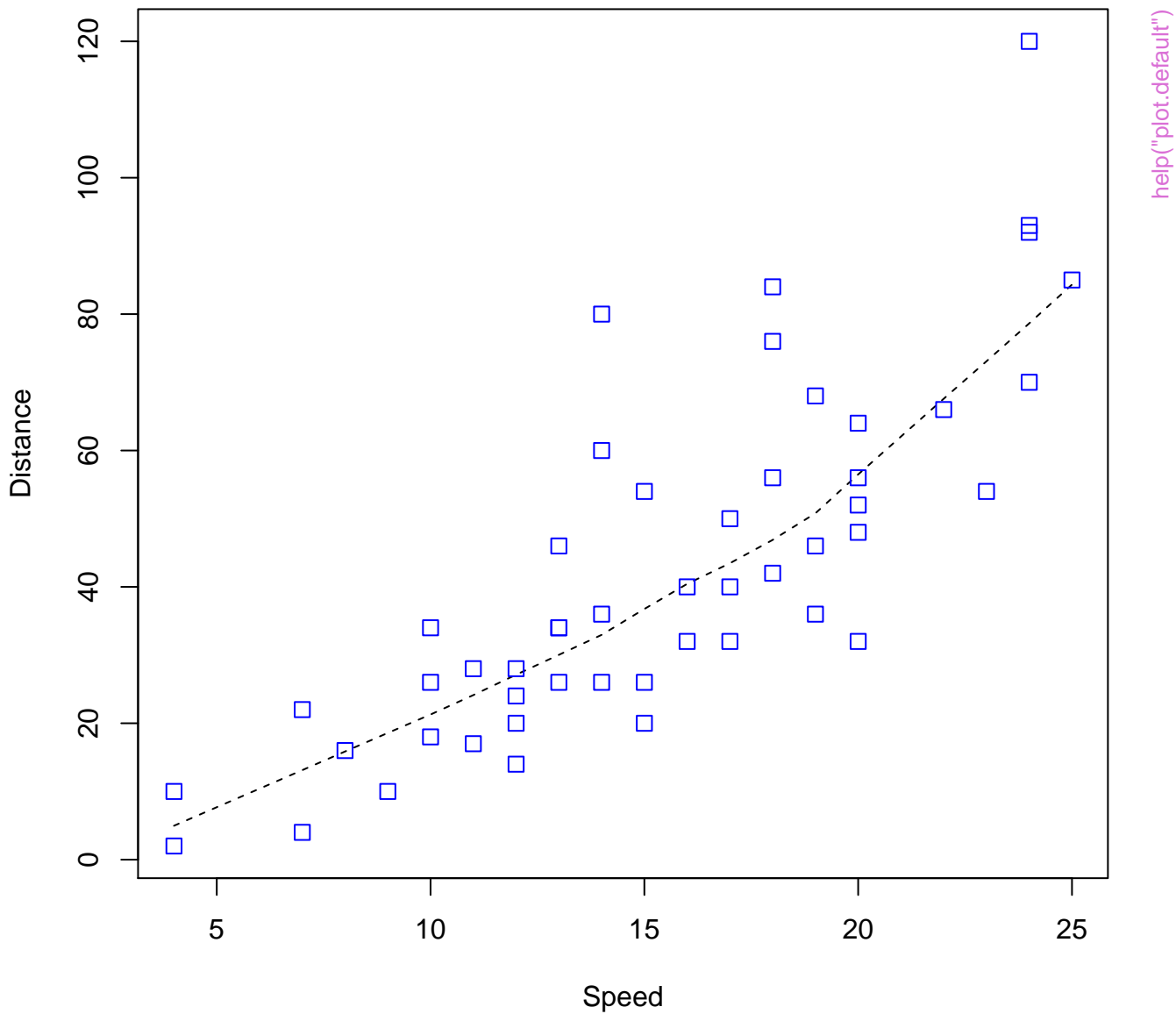


`help("plot.dataframe")`



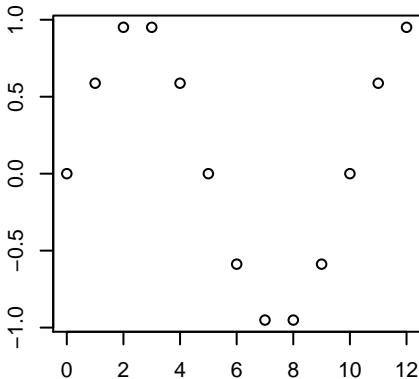




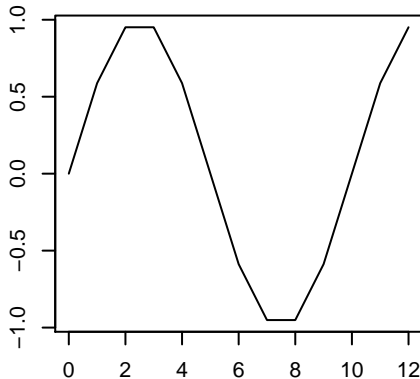




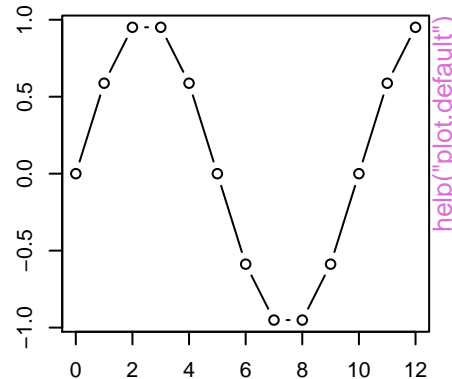
plot(\*, type = "p")



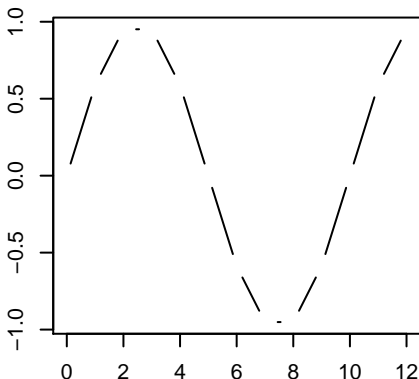
plot(\*, type = "l")



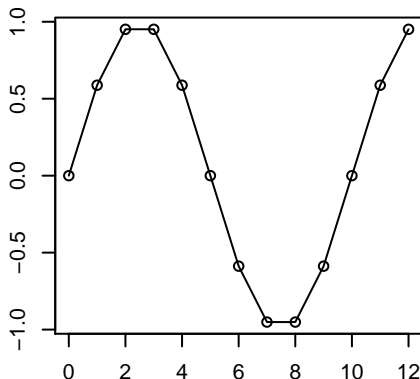
plot(\*, type = "b")



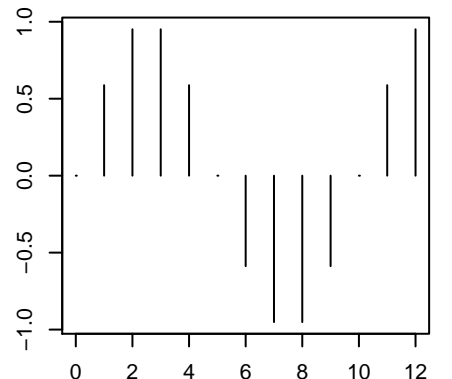
plot(\*, type = "c")



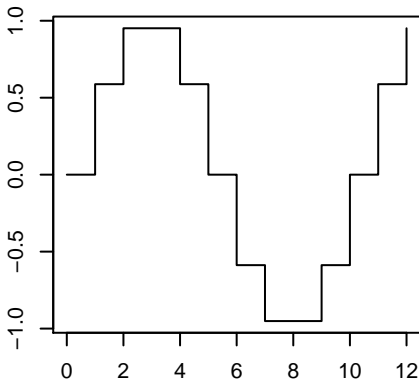
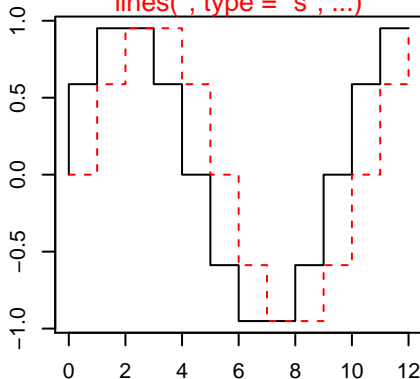
plot(\*, type = "o")



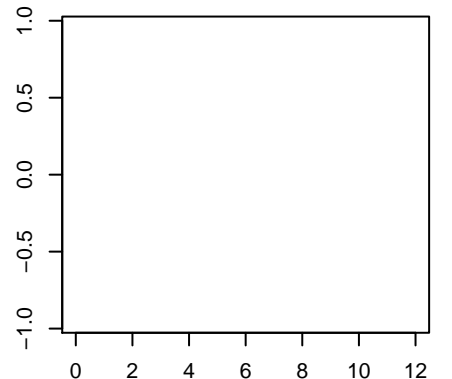
plot(\*, type = "h")



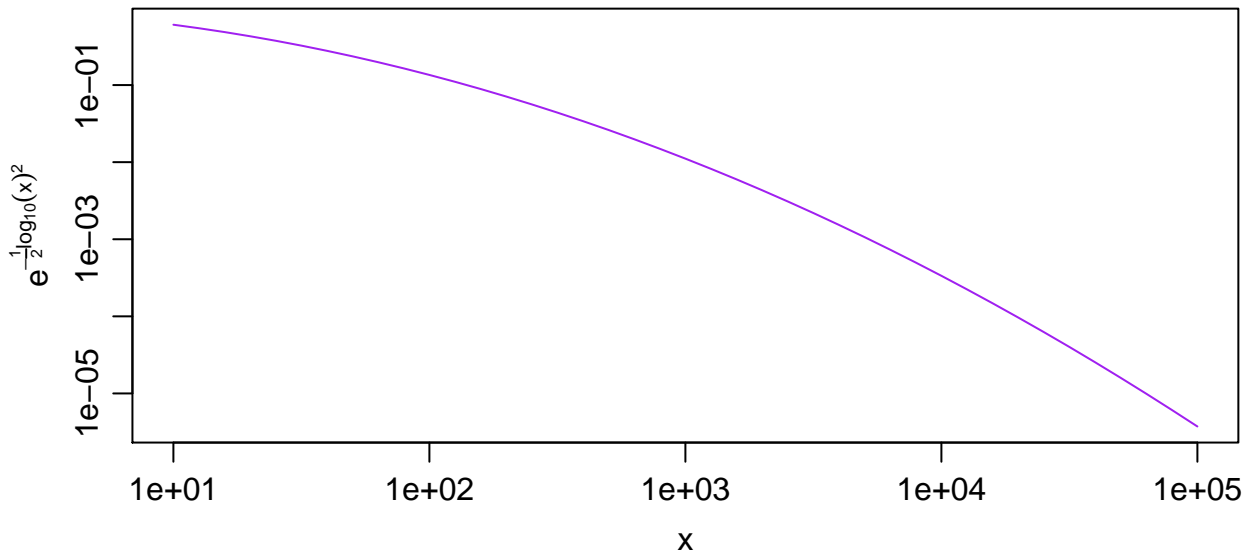
plot(\*, type = "s")

plot(\*, type = "S")  
lines(\*, type = "s", ...)

plot(\*, type = "n")

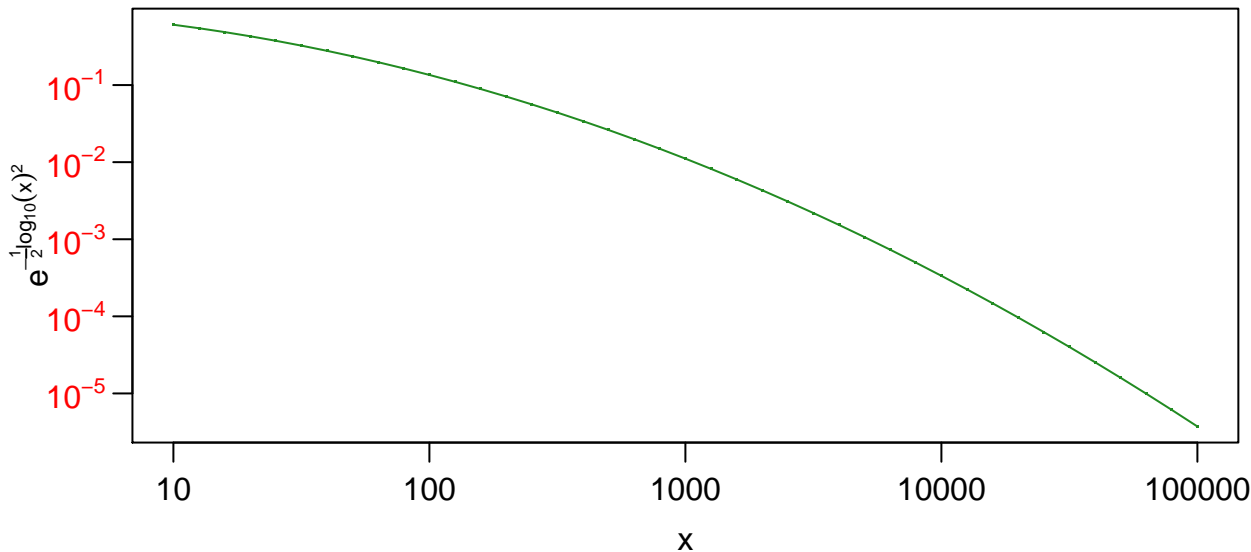


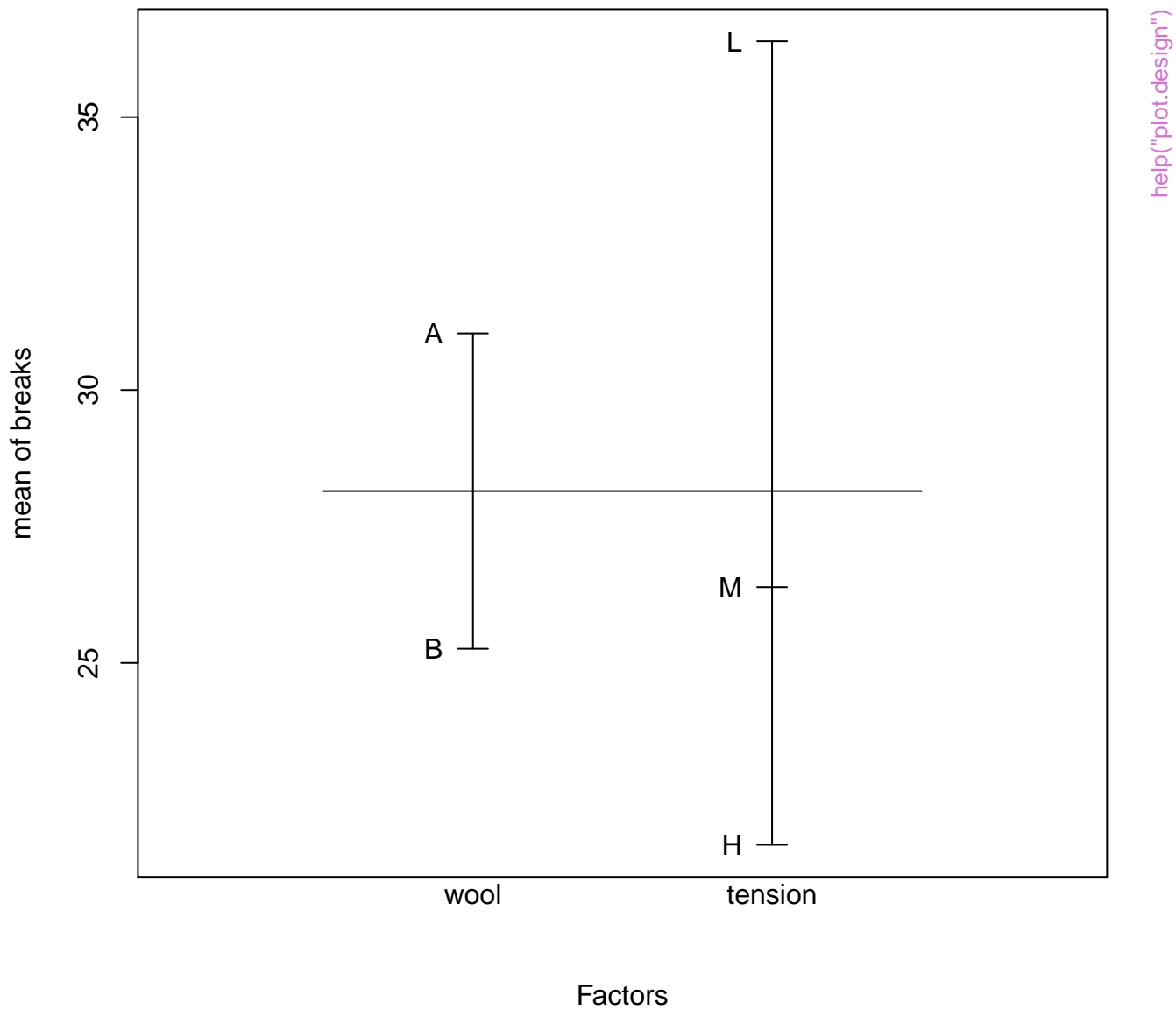
**Log-Log plot**

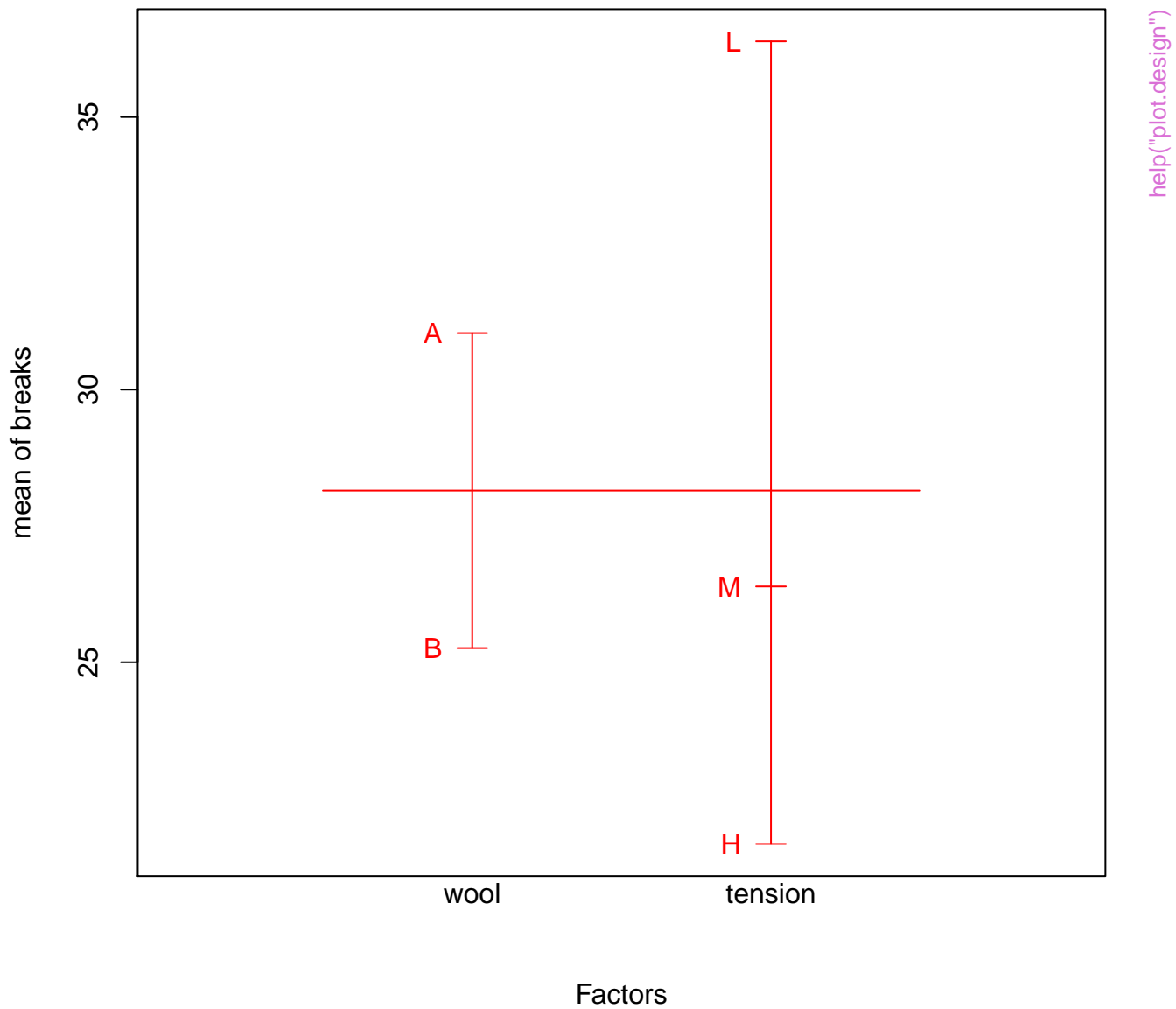


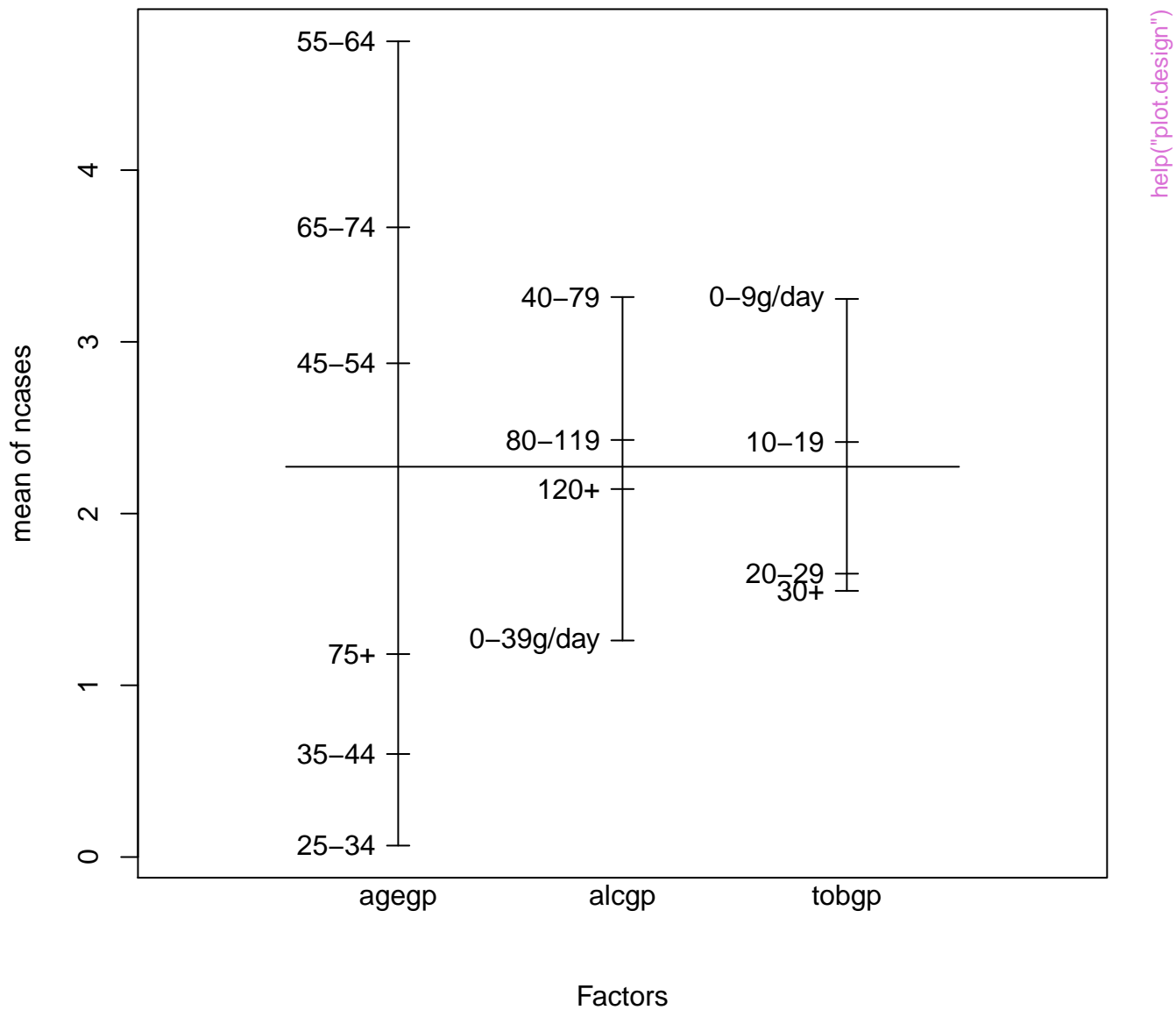
help("plot.default")

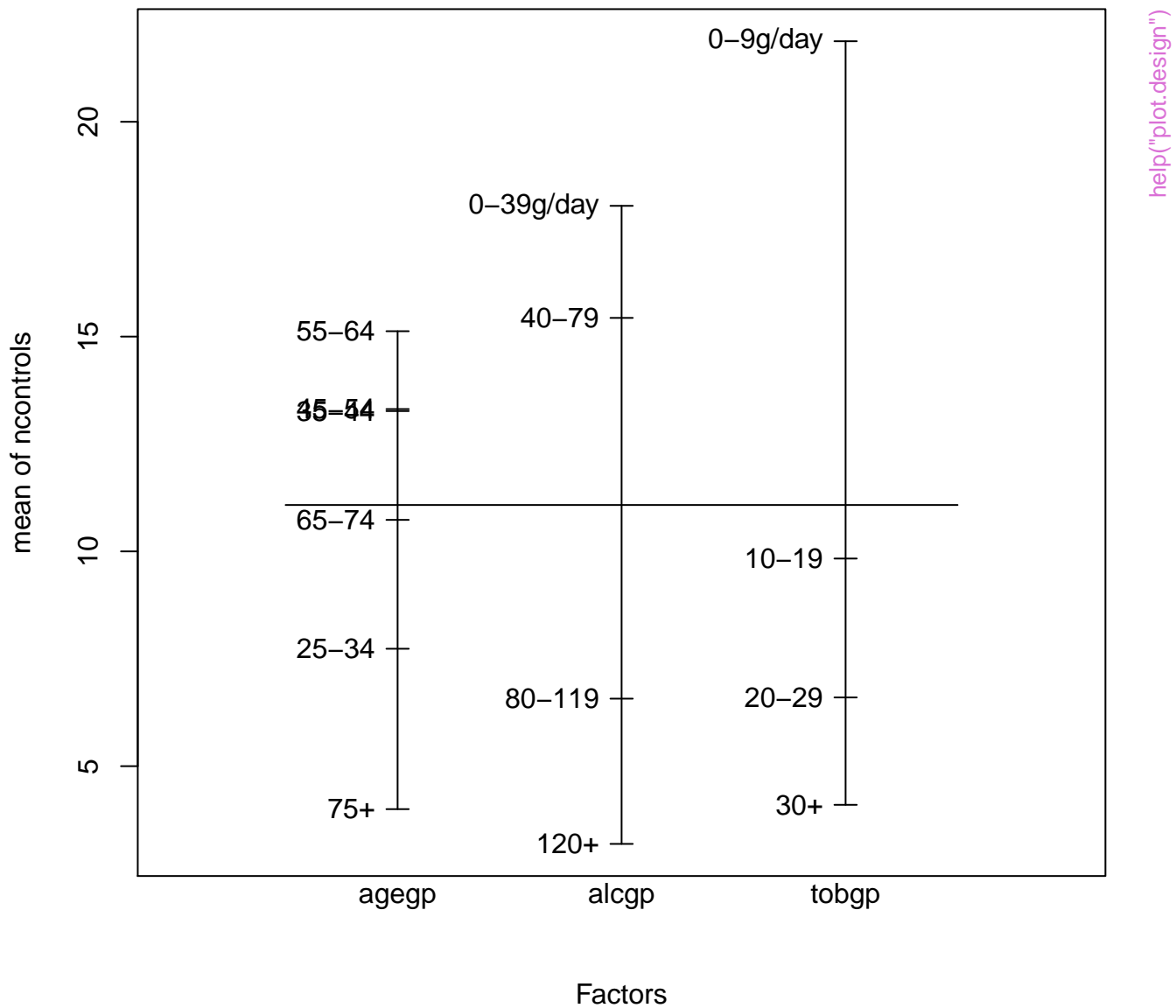
**Log-Log plot with custom axes**

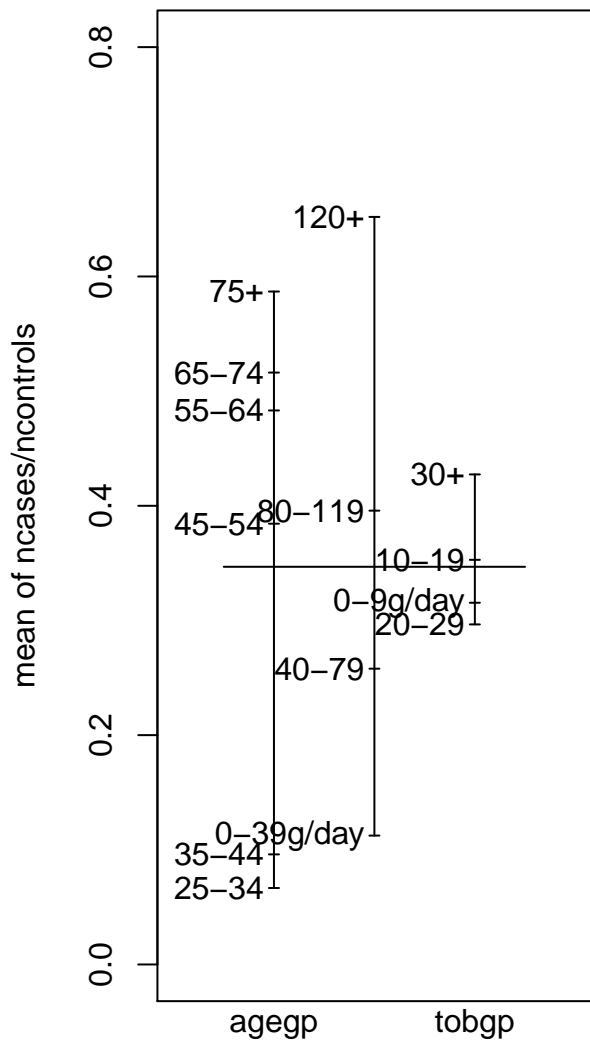




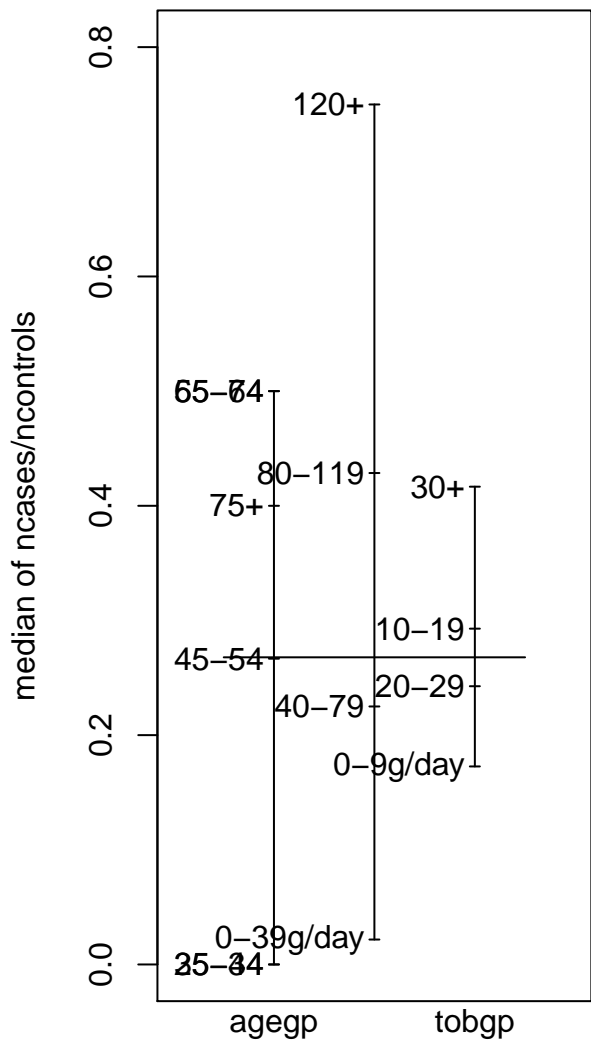




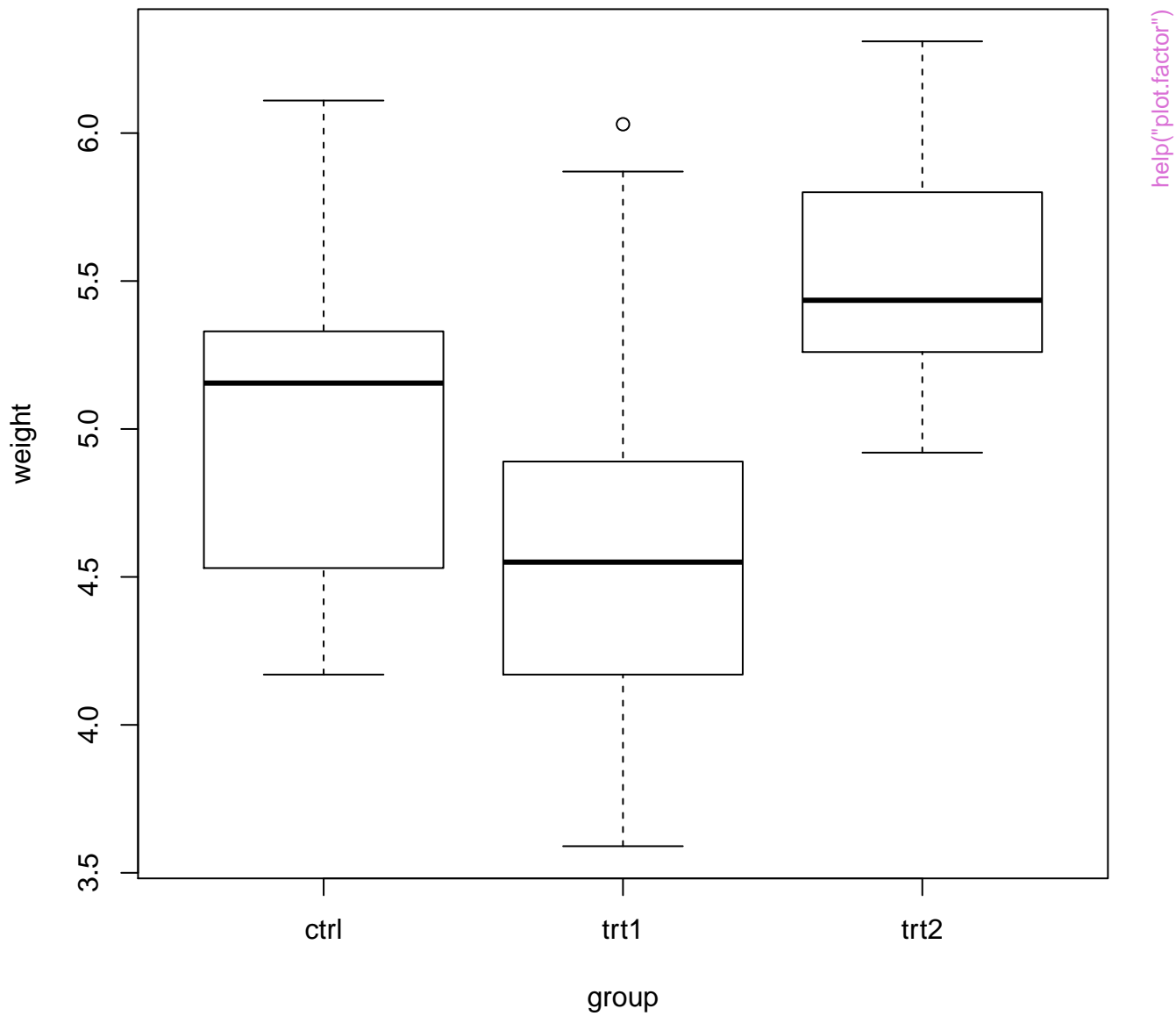




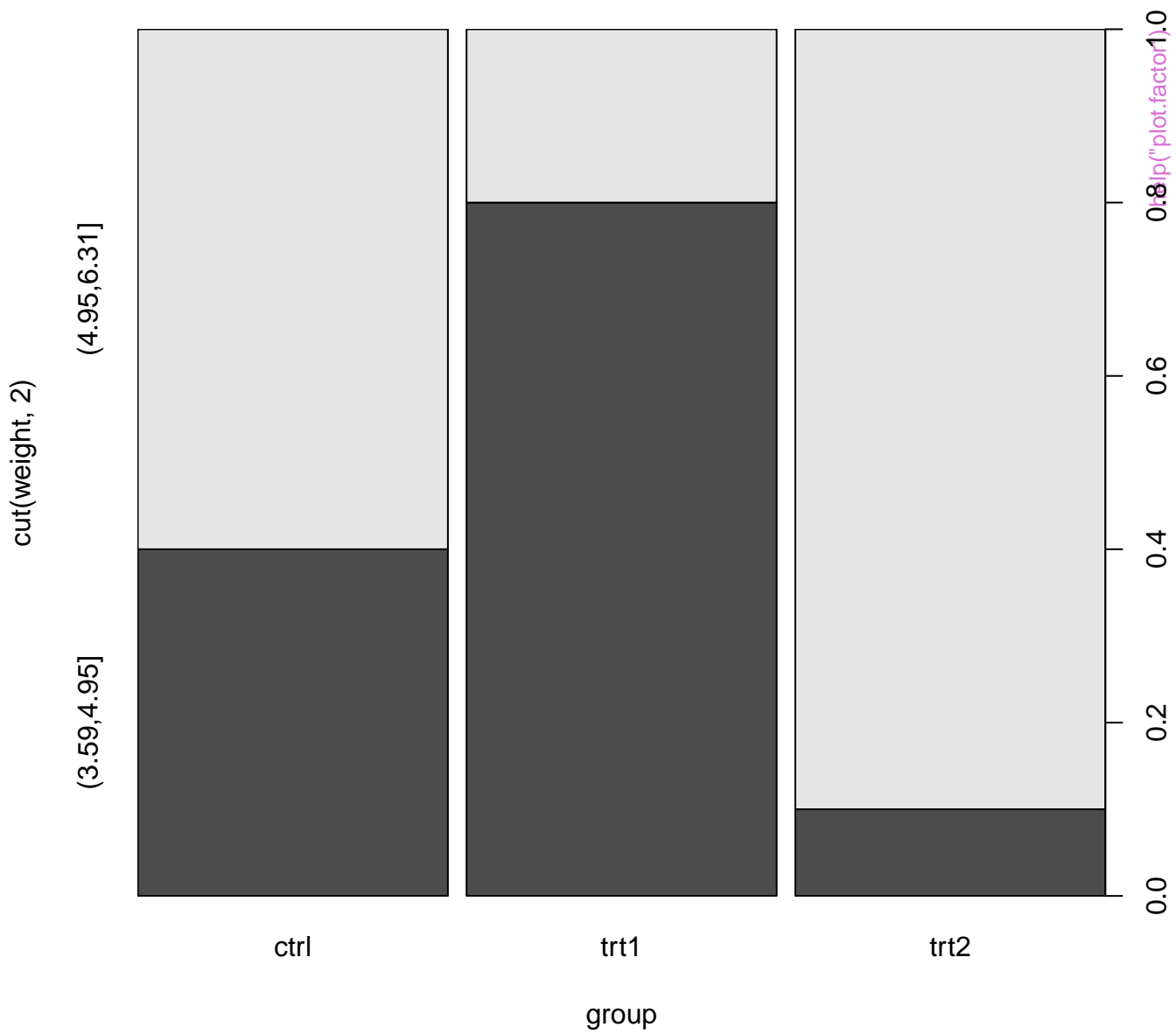
Factors

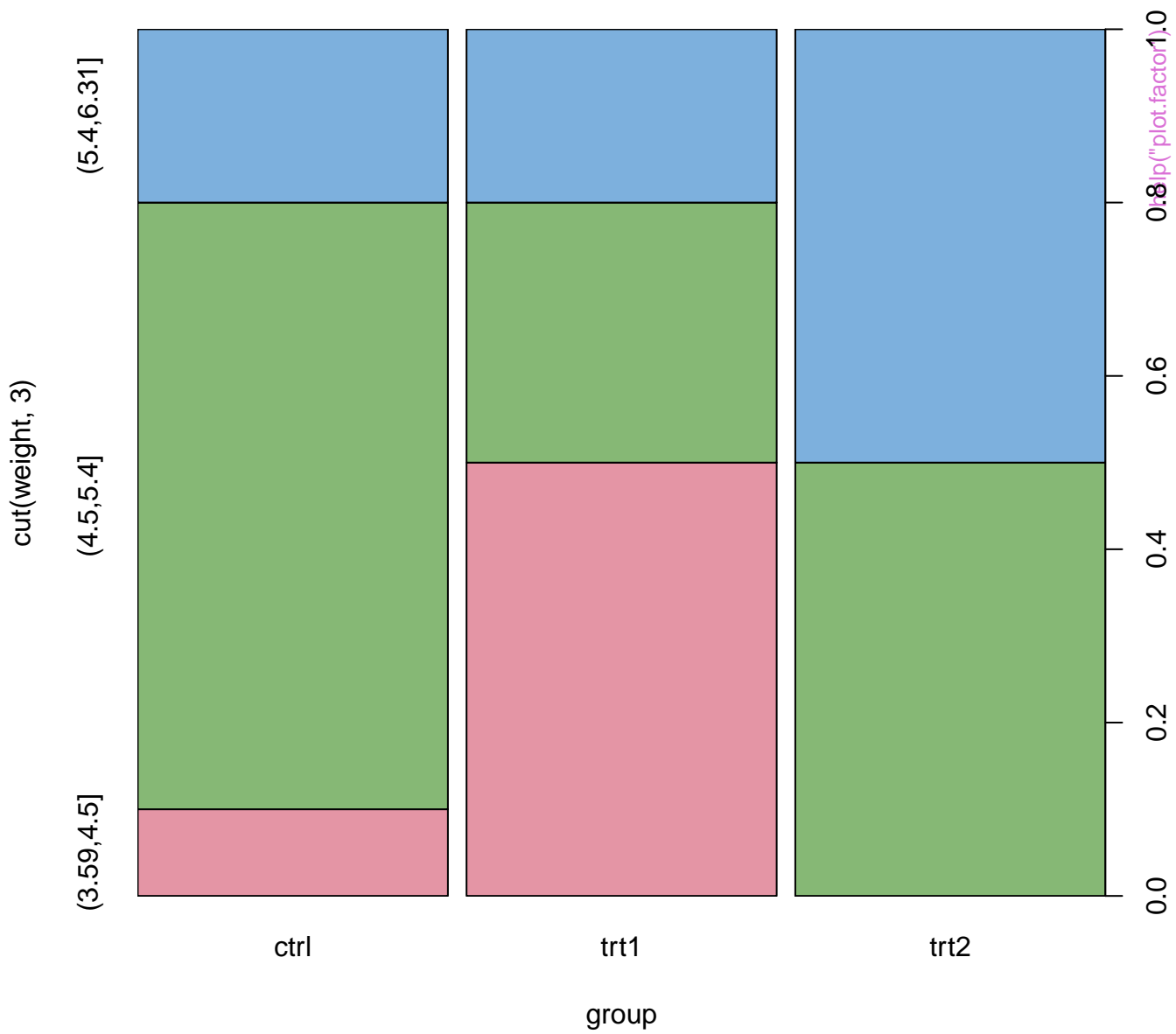


Factors

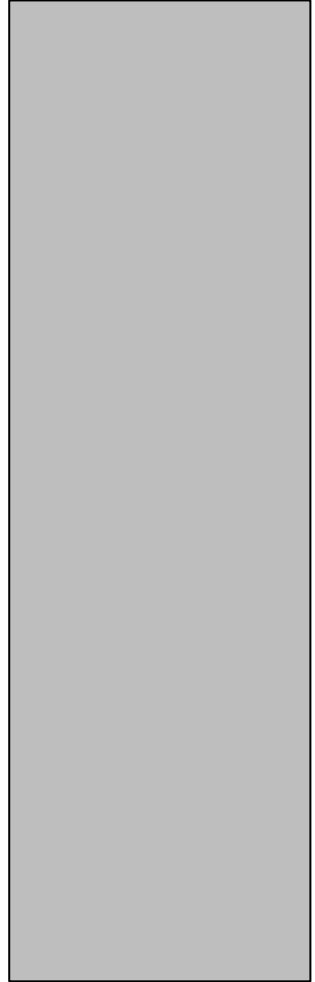
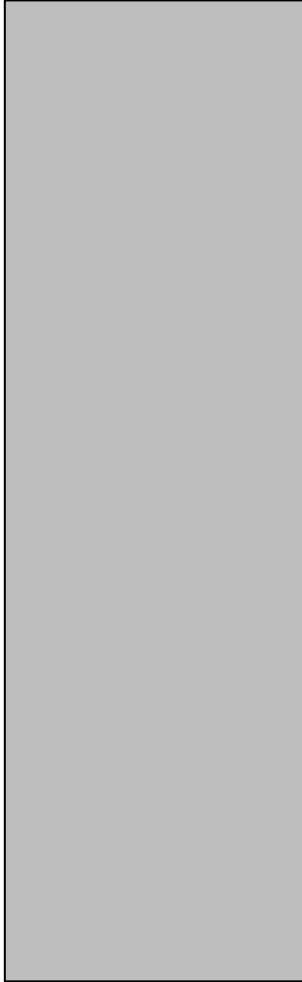








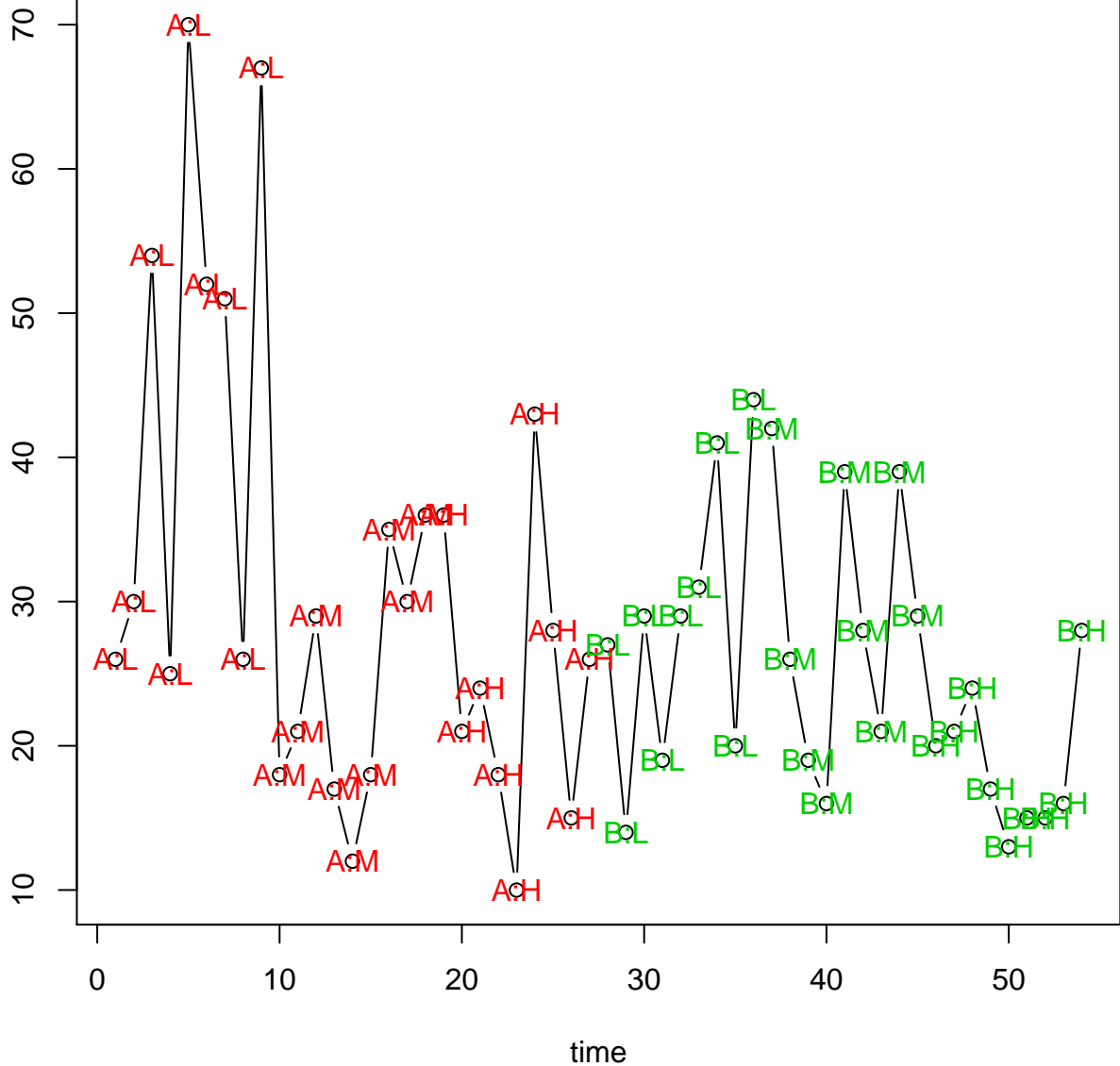
**no axes**



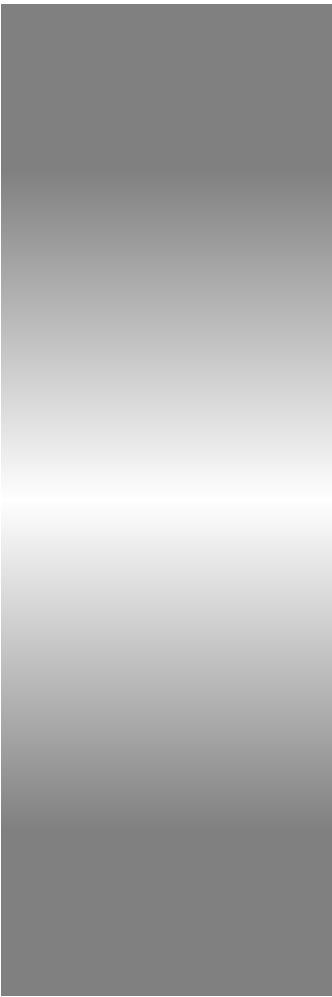
`help("plot.factor")`

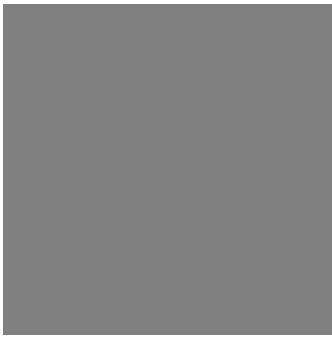


breaks



help("plot.formula")





`help("plot.raster")`



`help("plot.raster")`

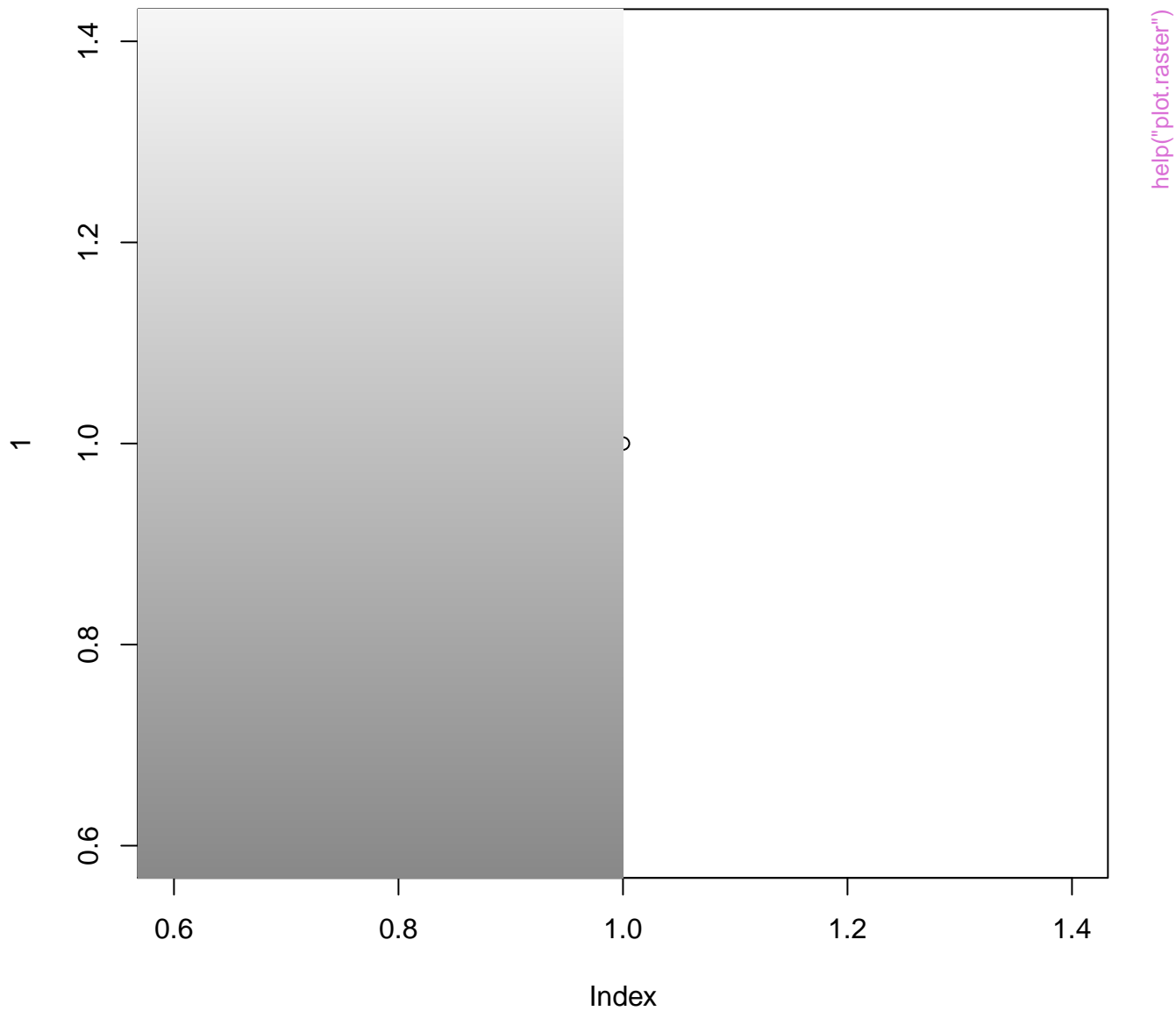




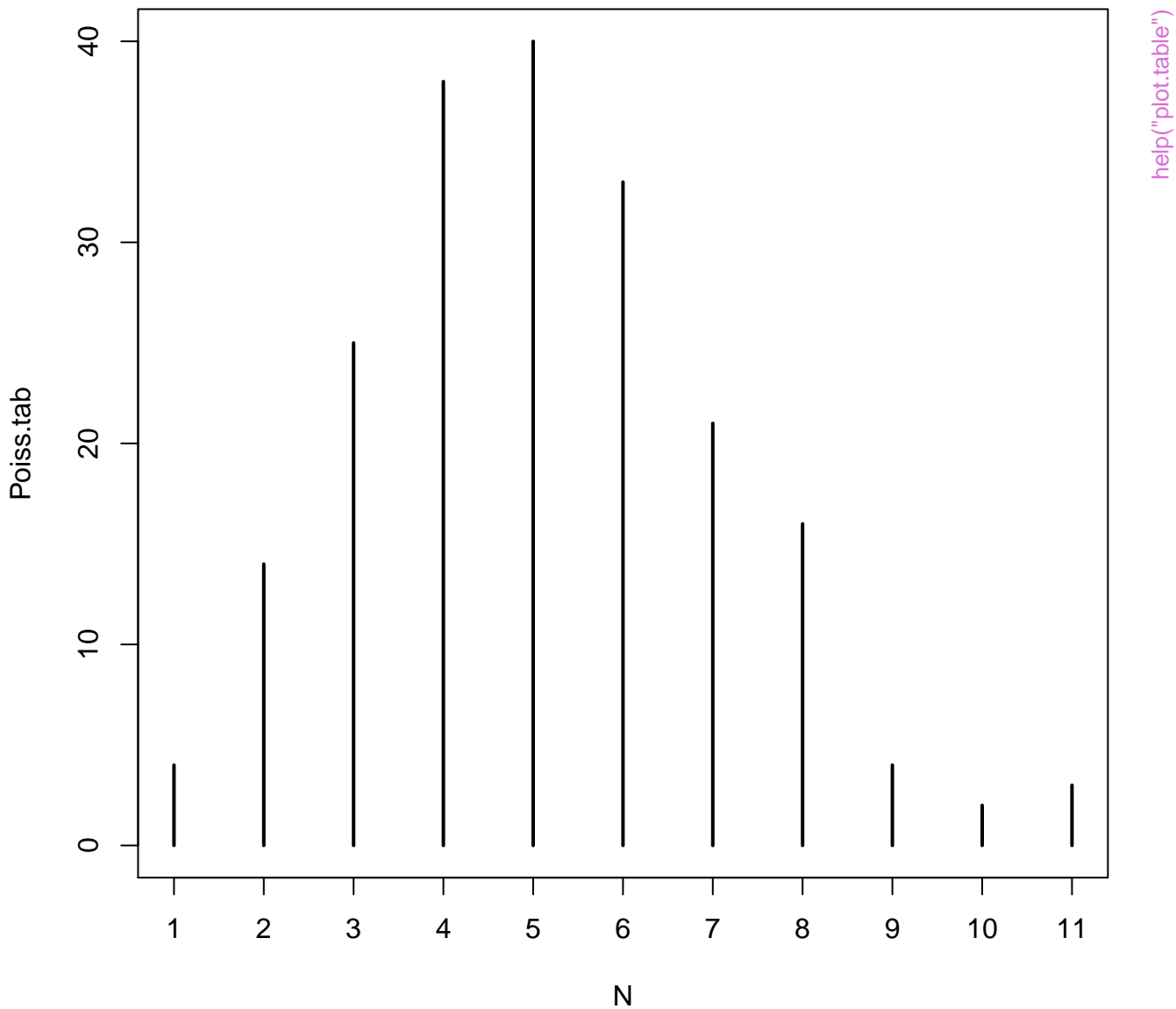
**This is my raster**

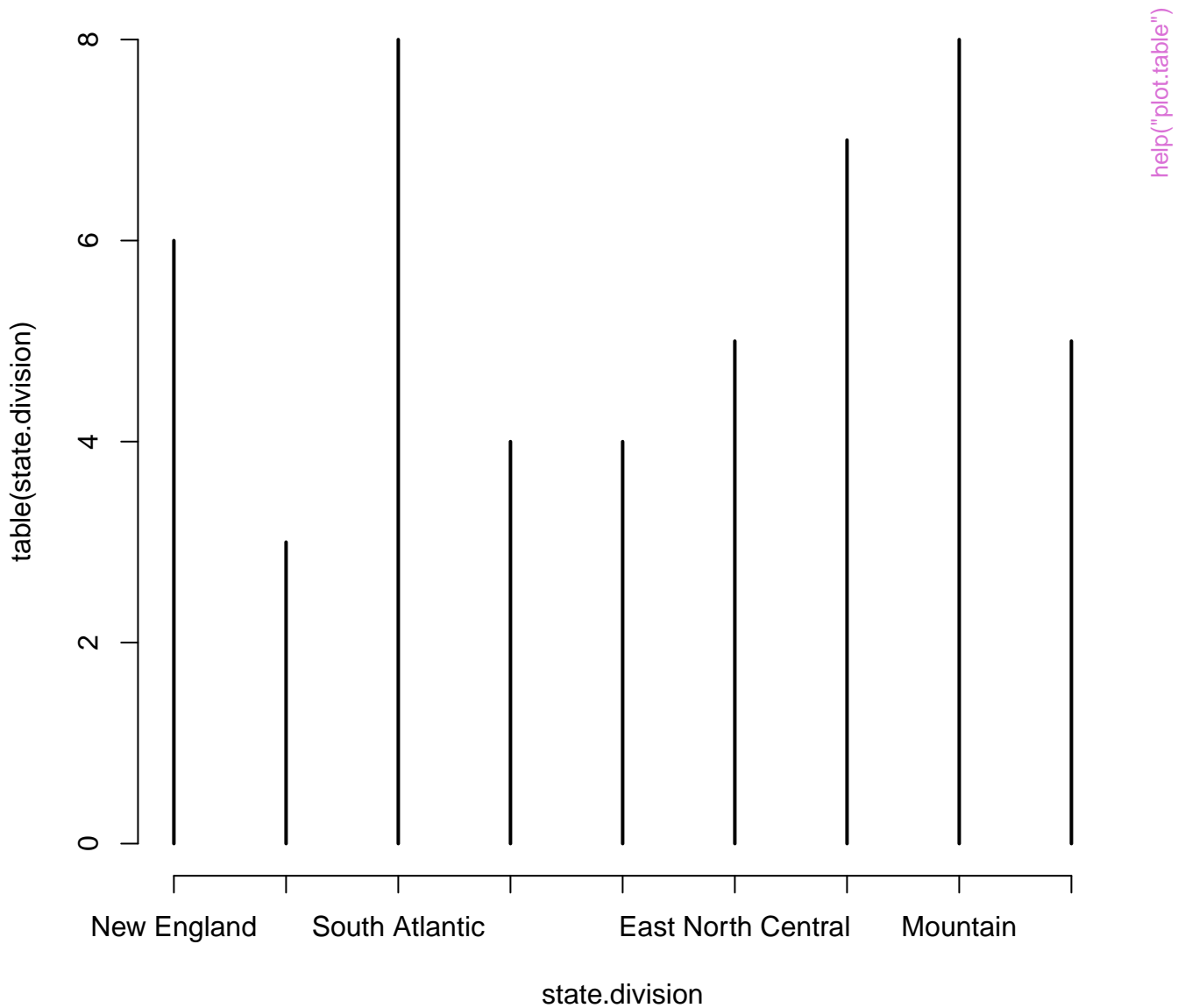


`help("plot.raster")`

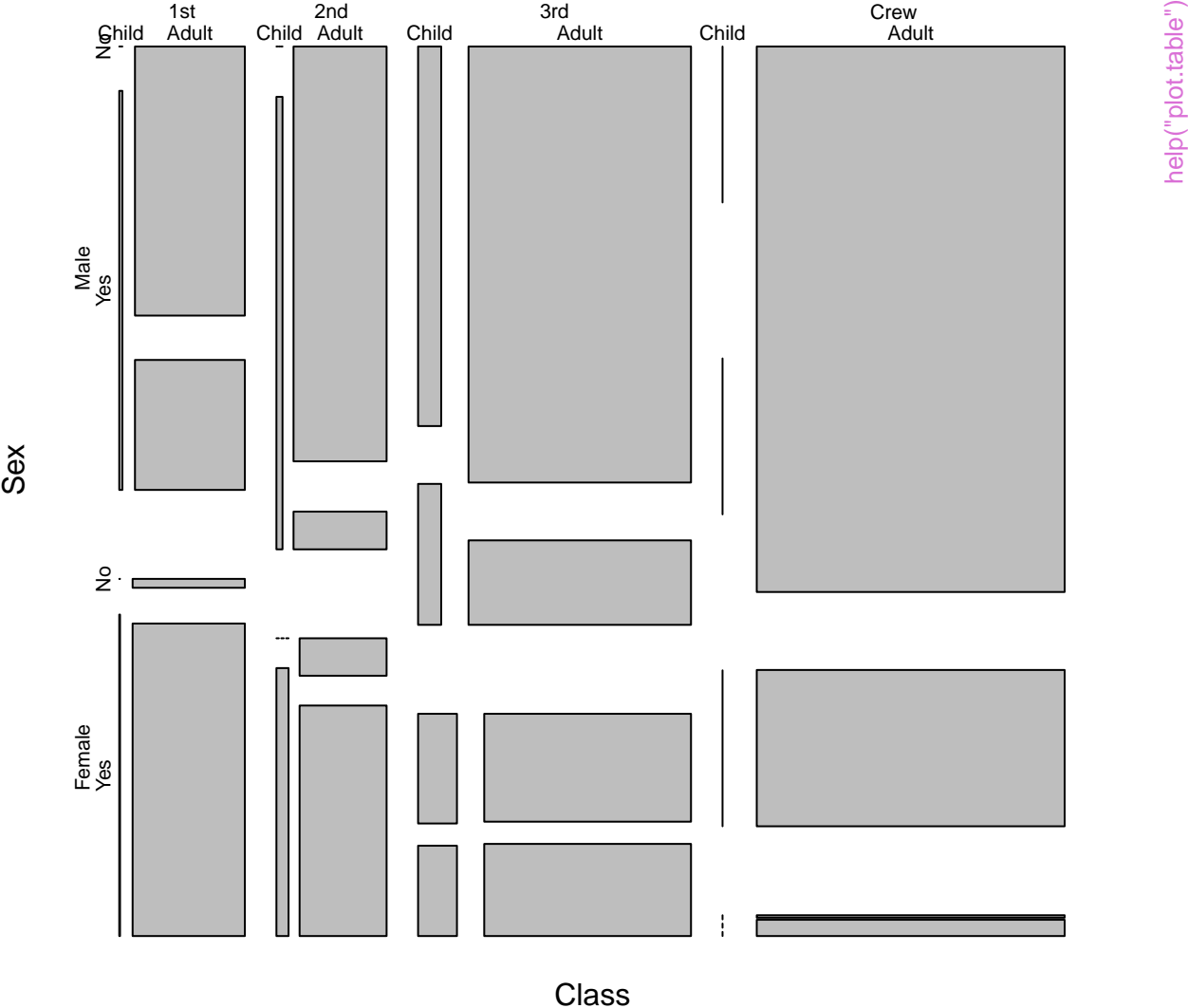


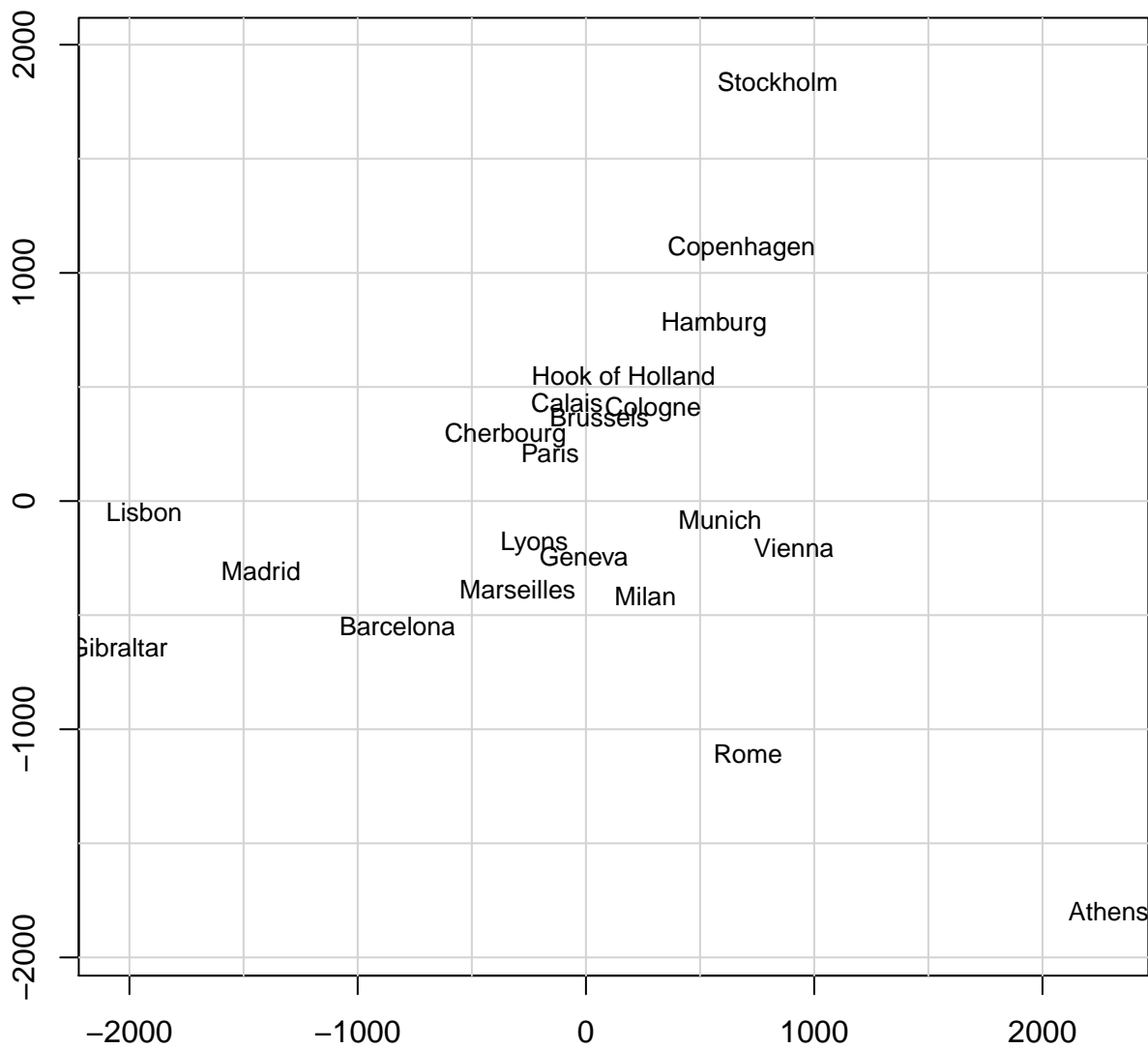
`plot(table(rpois(200, lambda = 5)))`





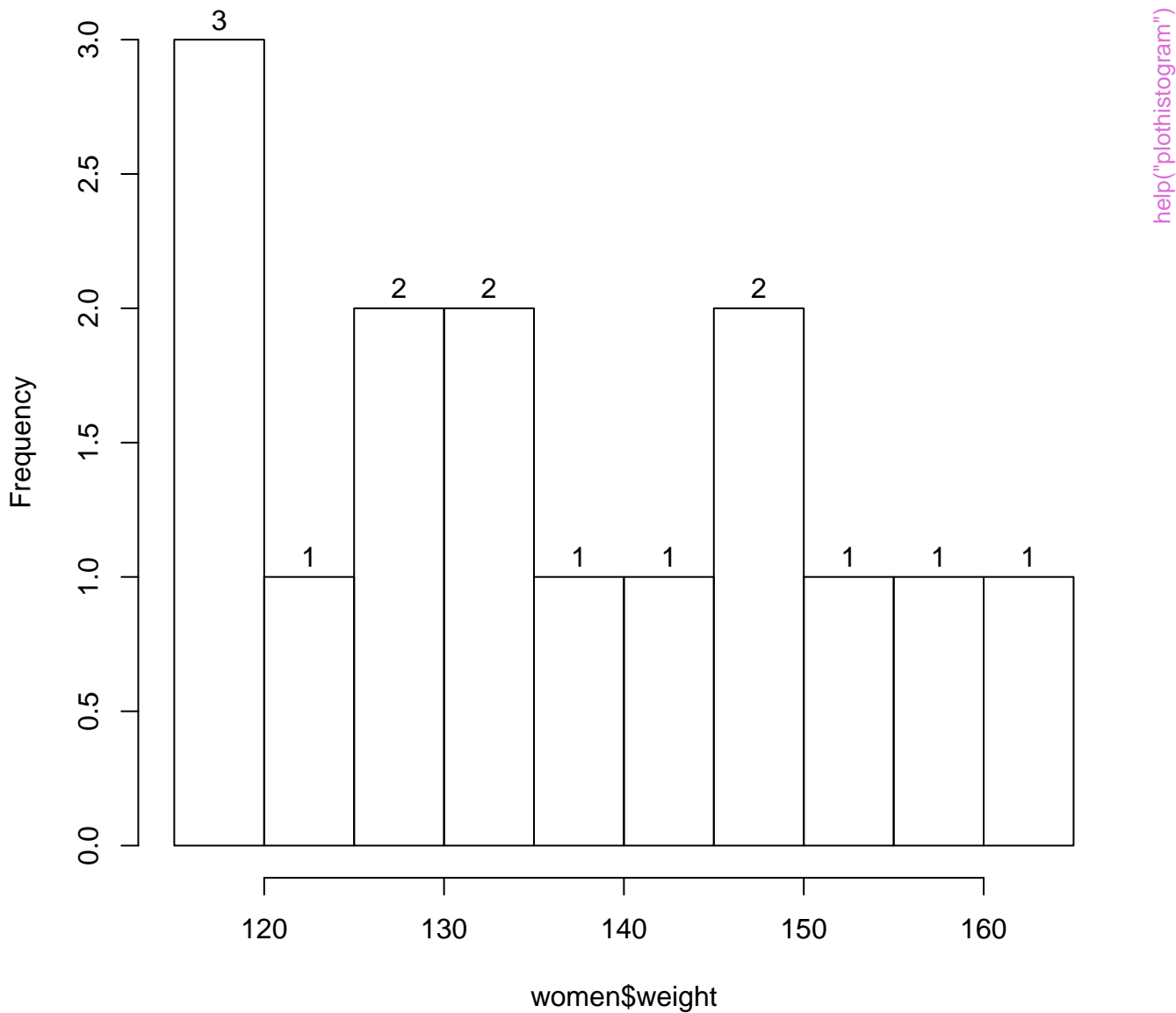
plot(Titanic, main= \*)





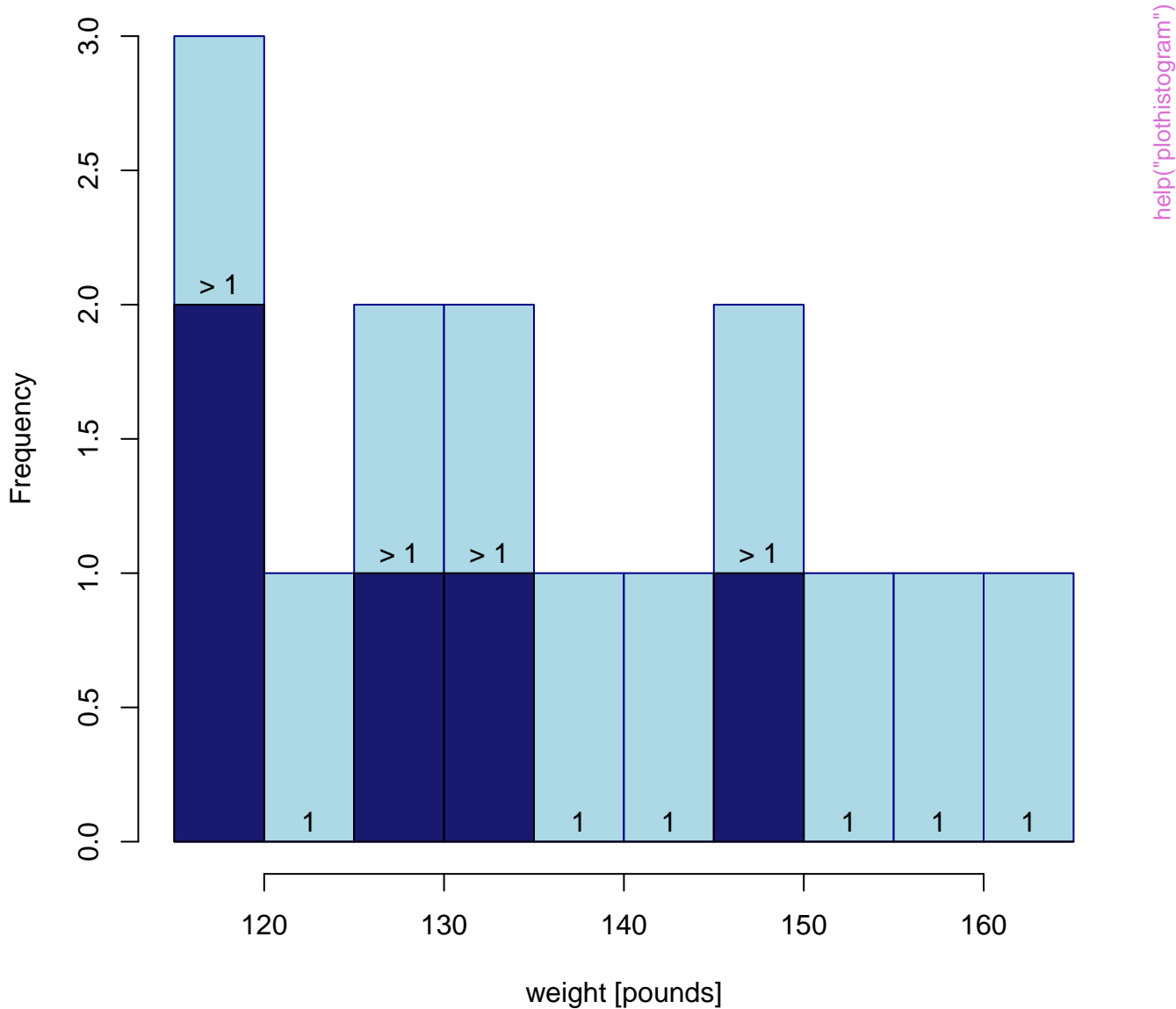
[help\("plot.window"\)](#)

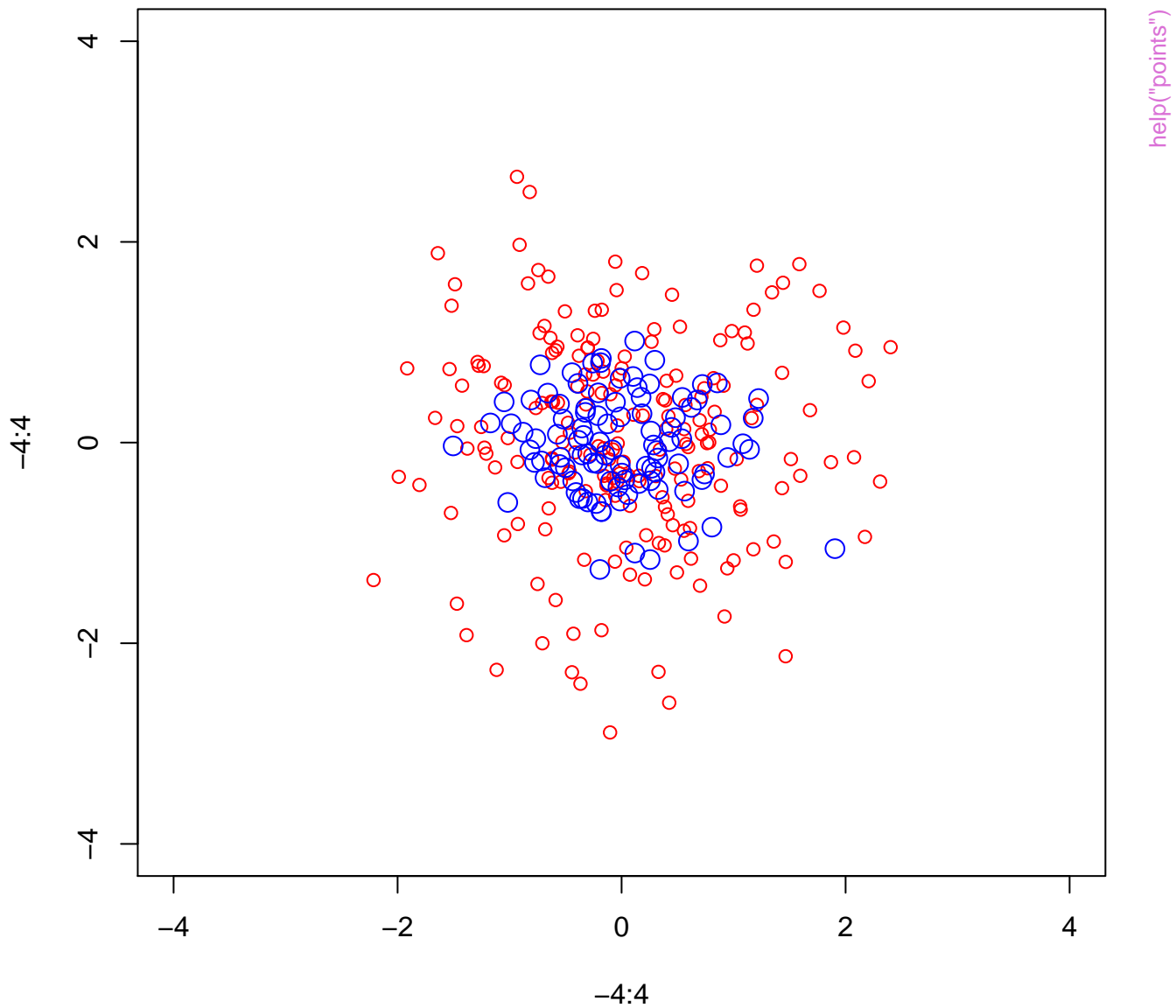
**Histogram of women\$weight**



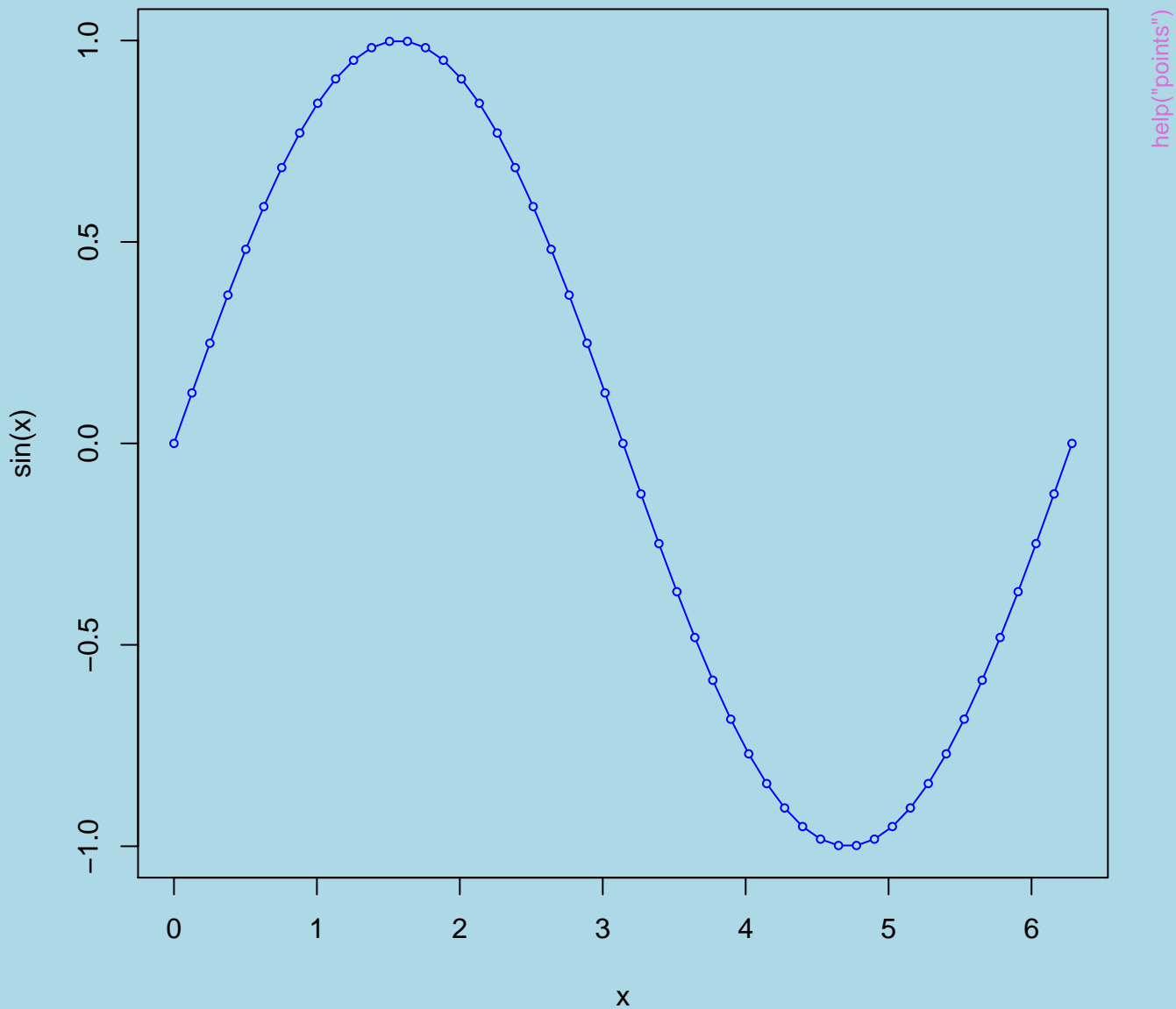


Histogram of 15 women's weights









































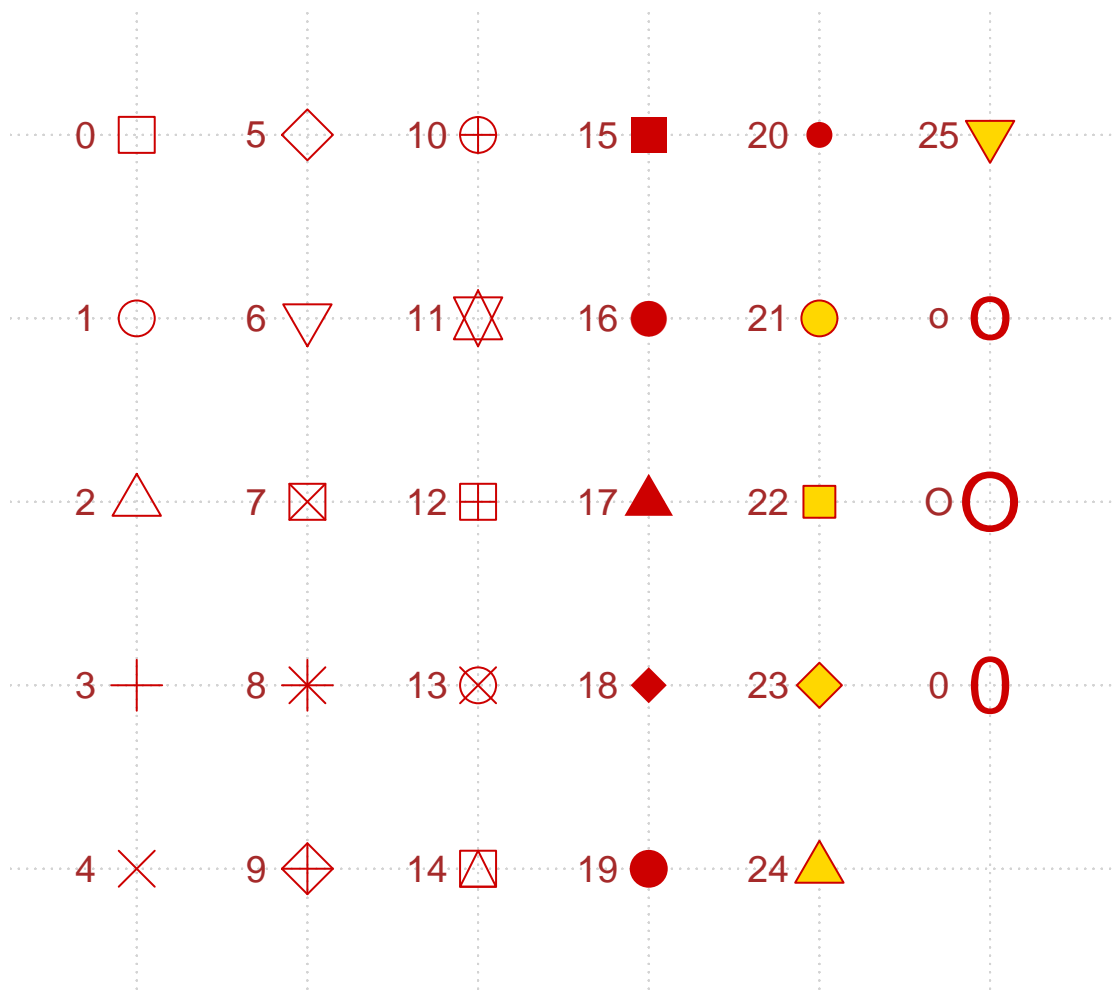
`plot(..., type="o", pch=21, bg=par("bg"))`



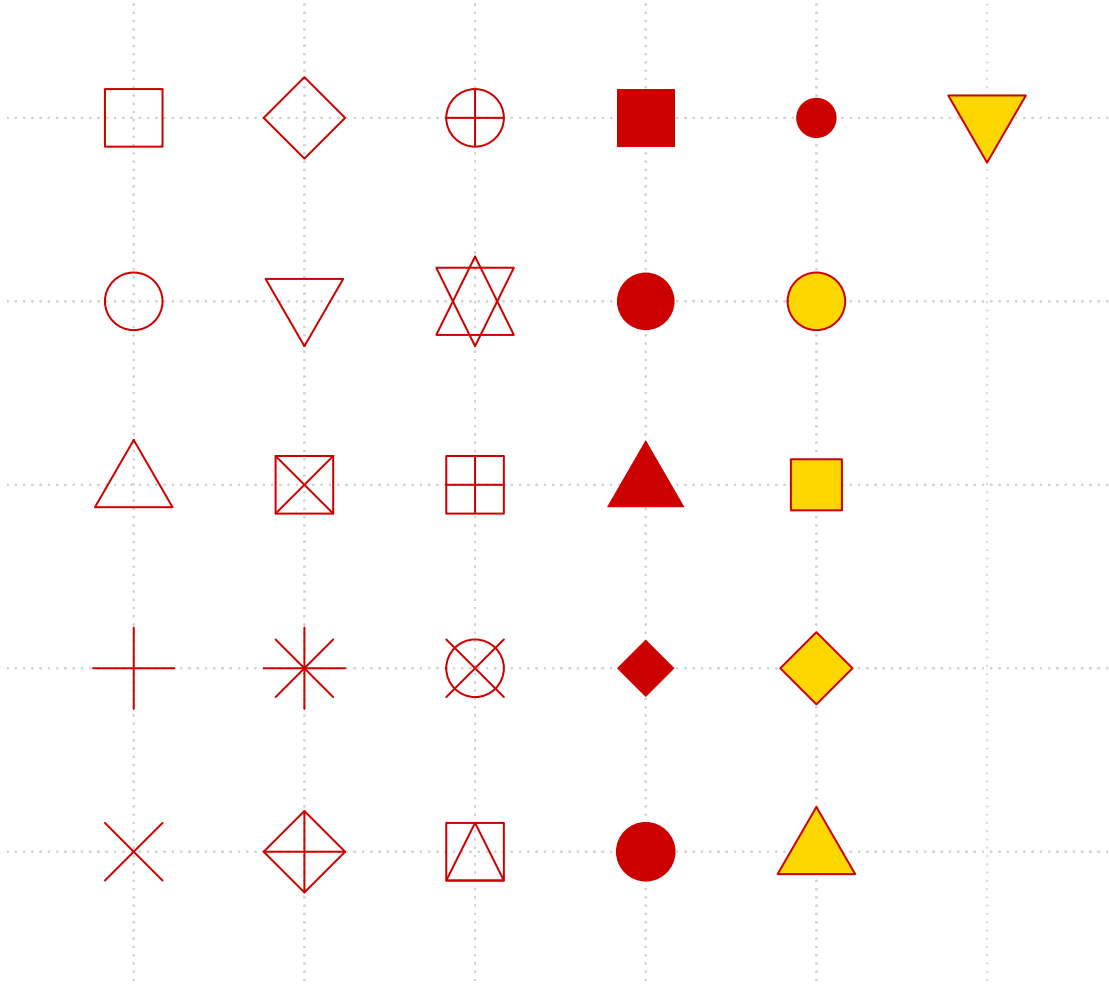
plot symbols : points (... pch = \*, cex = 3 )

0		6		12		18		24		0	
1		7		13		19		25		+	
2		8		14		20		*		-	
3		9		15		21		.			
4		10		16		22		o		%	
5		11		17		23		O		#	

plot symbols : points (... pch = \*, cex = 2.5 )

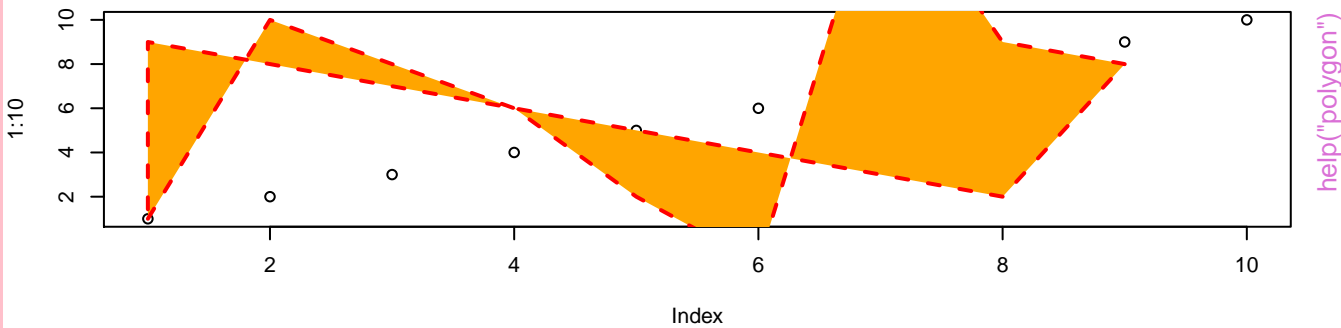


help("points")

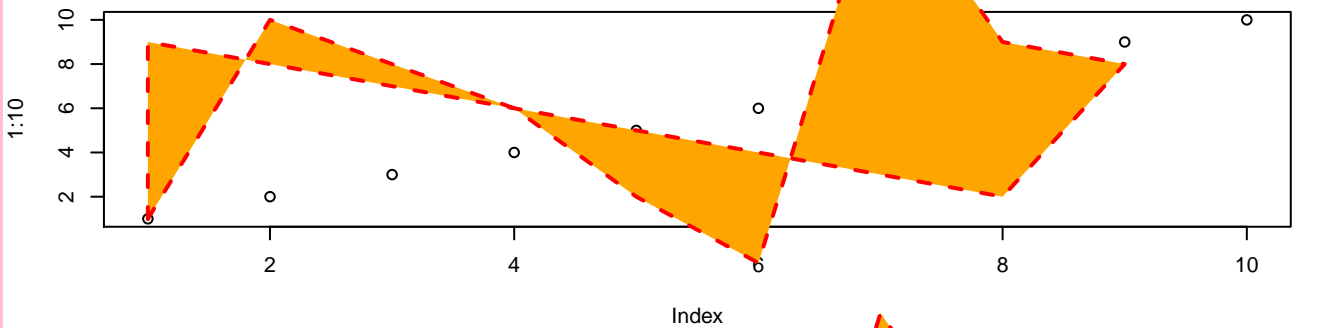


help("points")

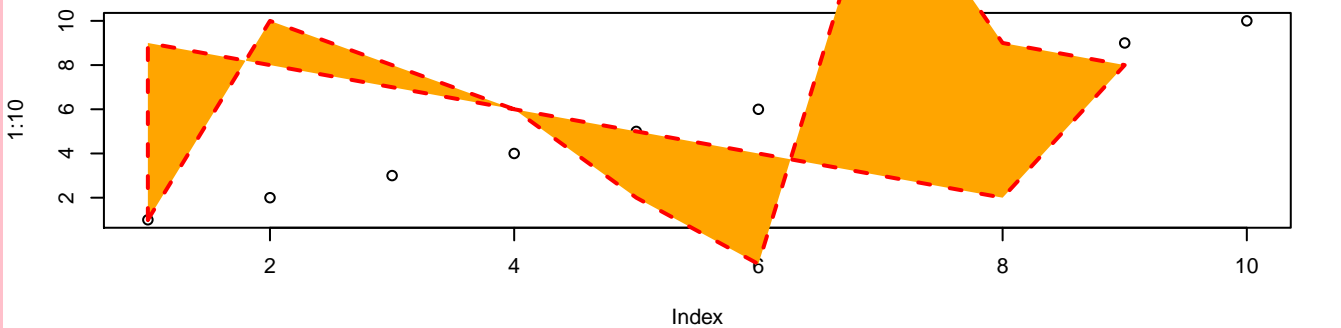
**xpd = FALSE**



**xpd = TRUE**

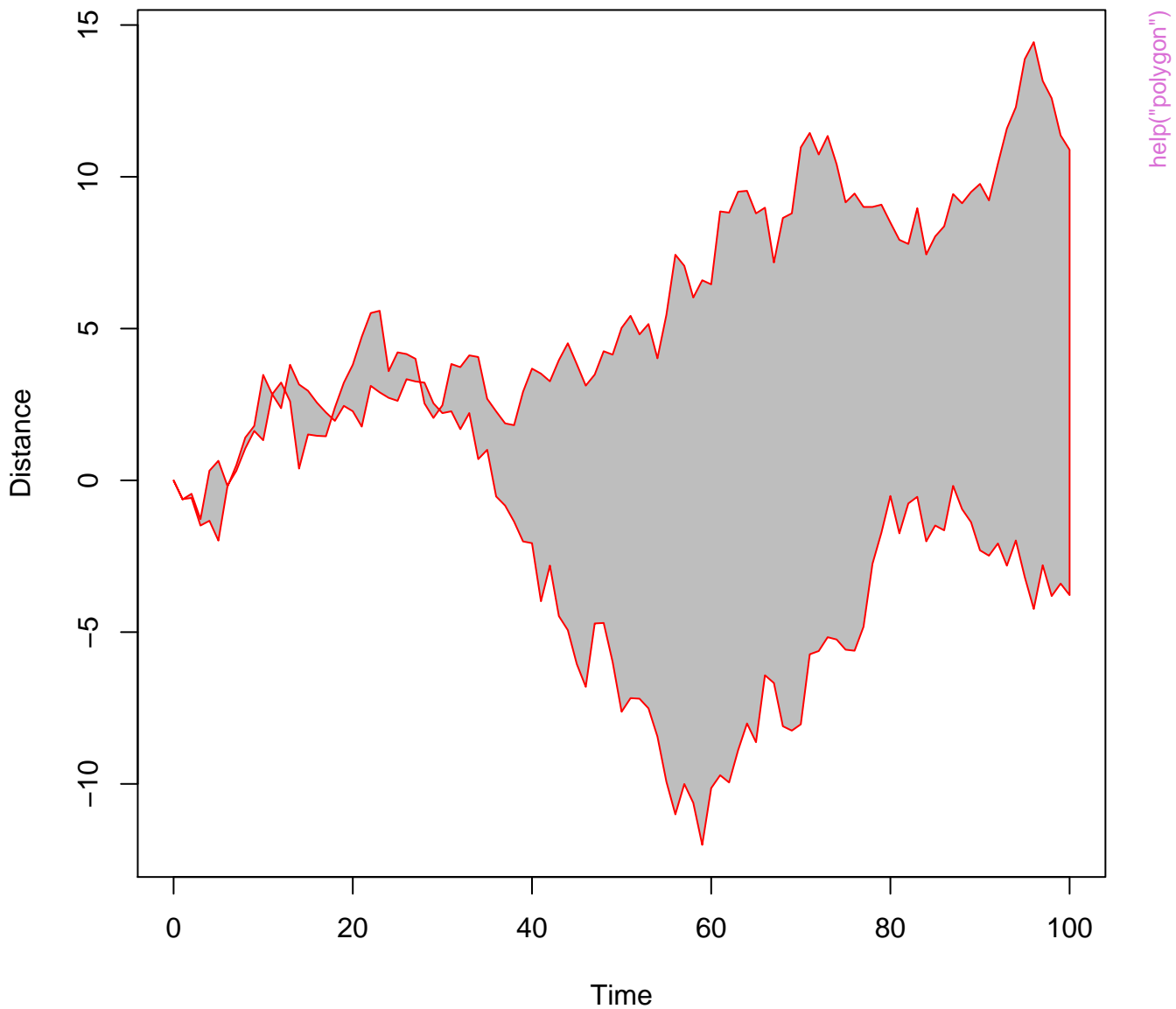


**xpd = NA**

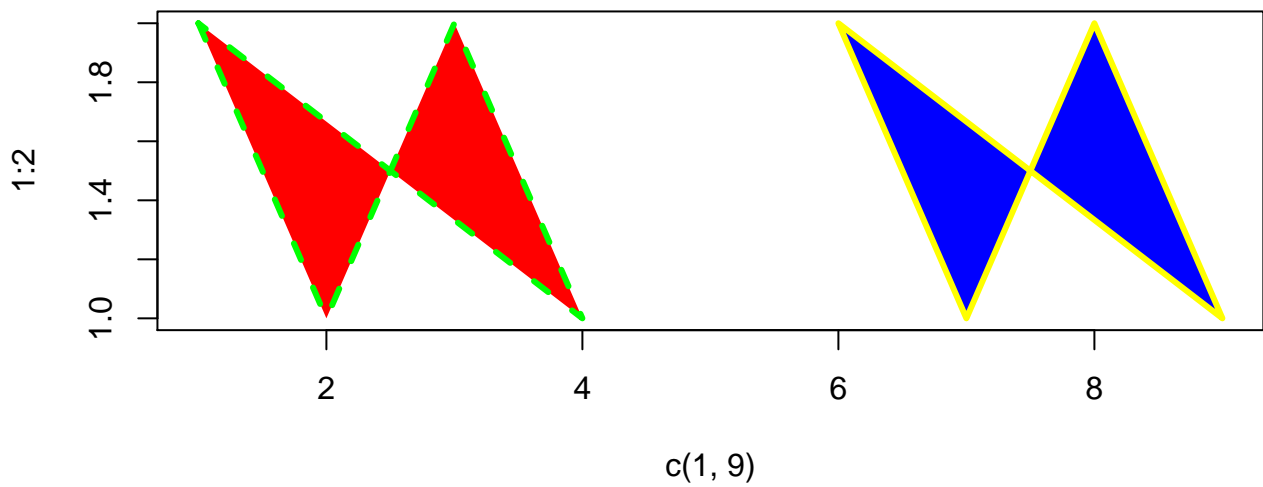
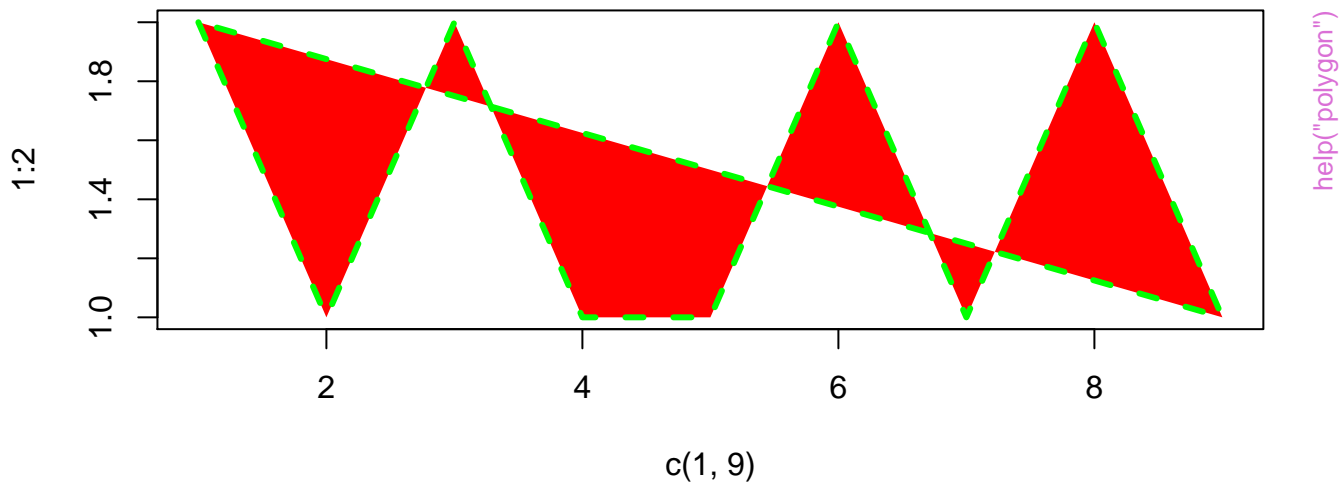


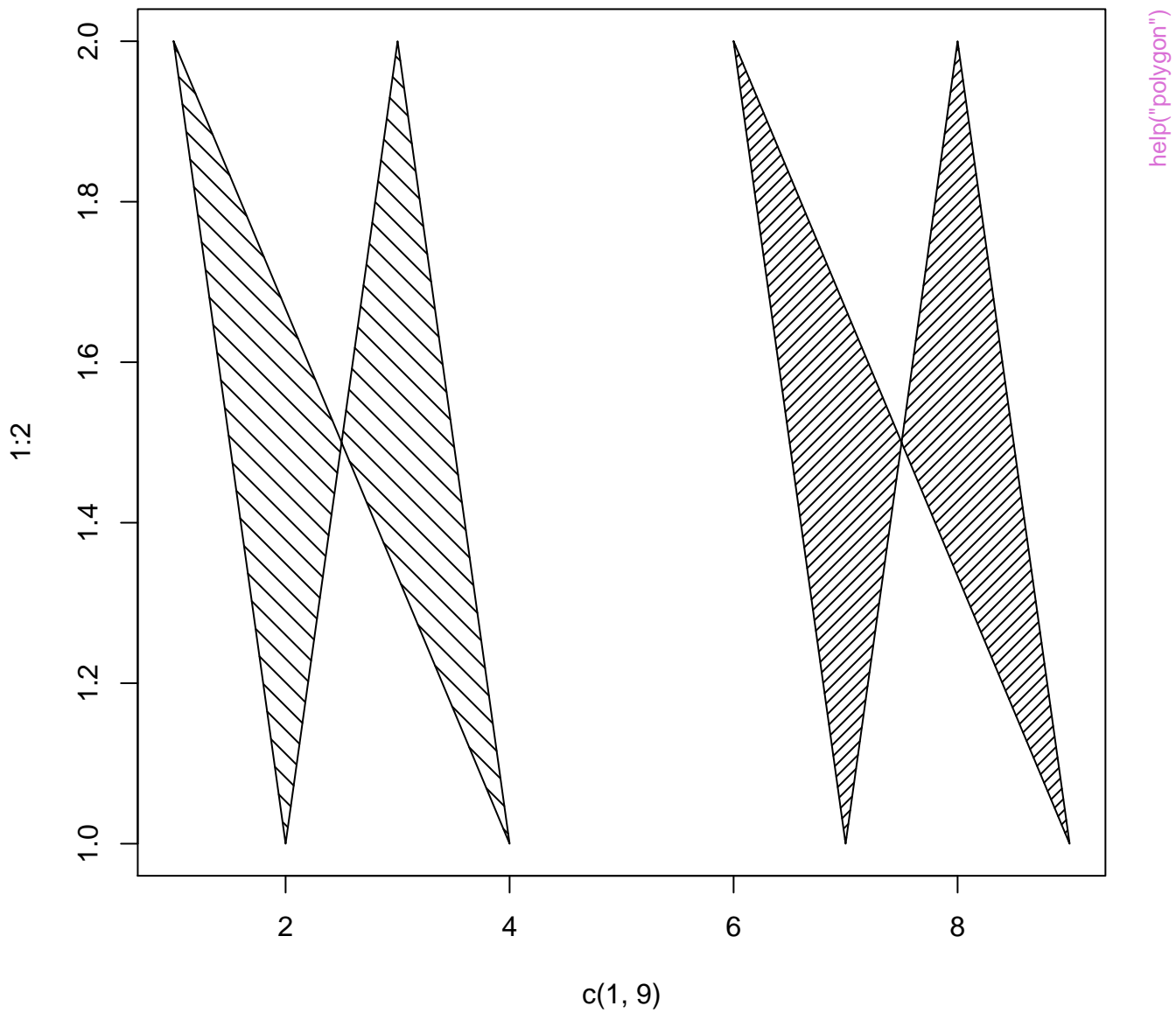
help("polygon")

## Distance Between Brownian Motions





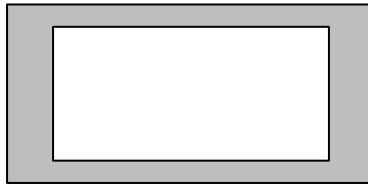




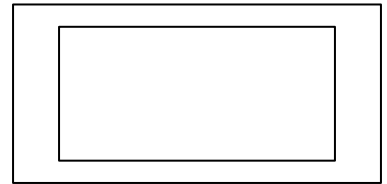
# Nested rectangles, both clockwise



Rule: winding



Rule: evenodd



help("polypath")

## Nested rectangles, outer clockwise, inner anti-clockwise



Rule: winding



Rule: evenodd



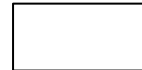
## Disjoint rectangles



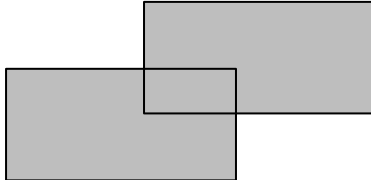
Rule: winding



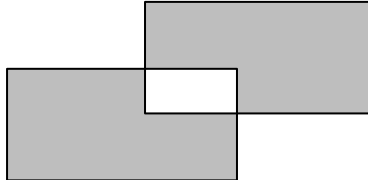
Rule: evenodd



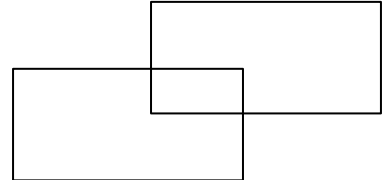
## Overlapping rectangles, both clockwise



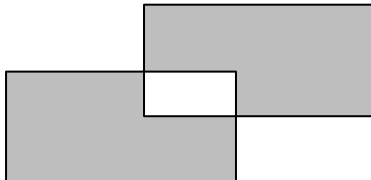
Rule: winding



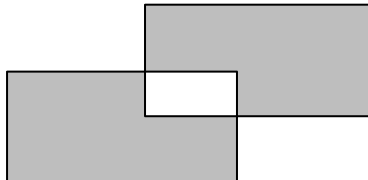
Rule: evenodd



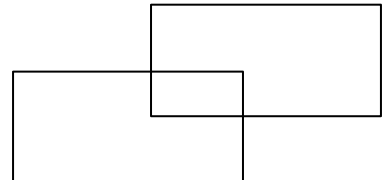
## Overlapping rectangles, one clockwise, other anti-clockwise

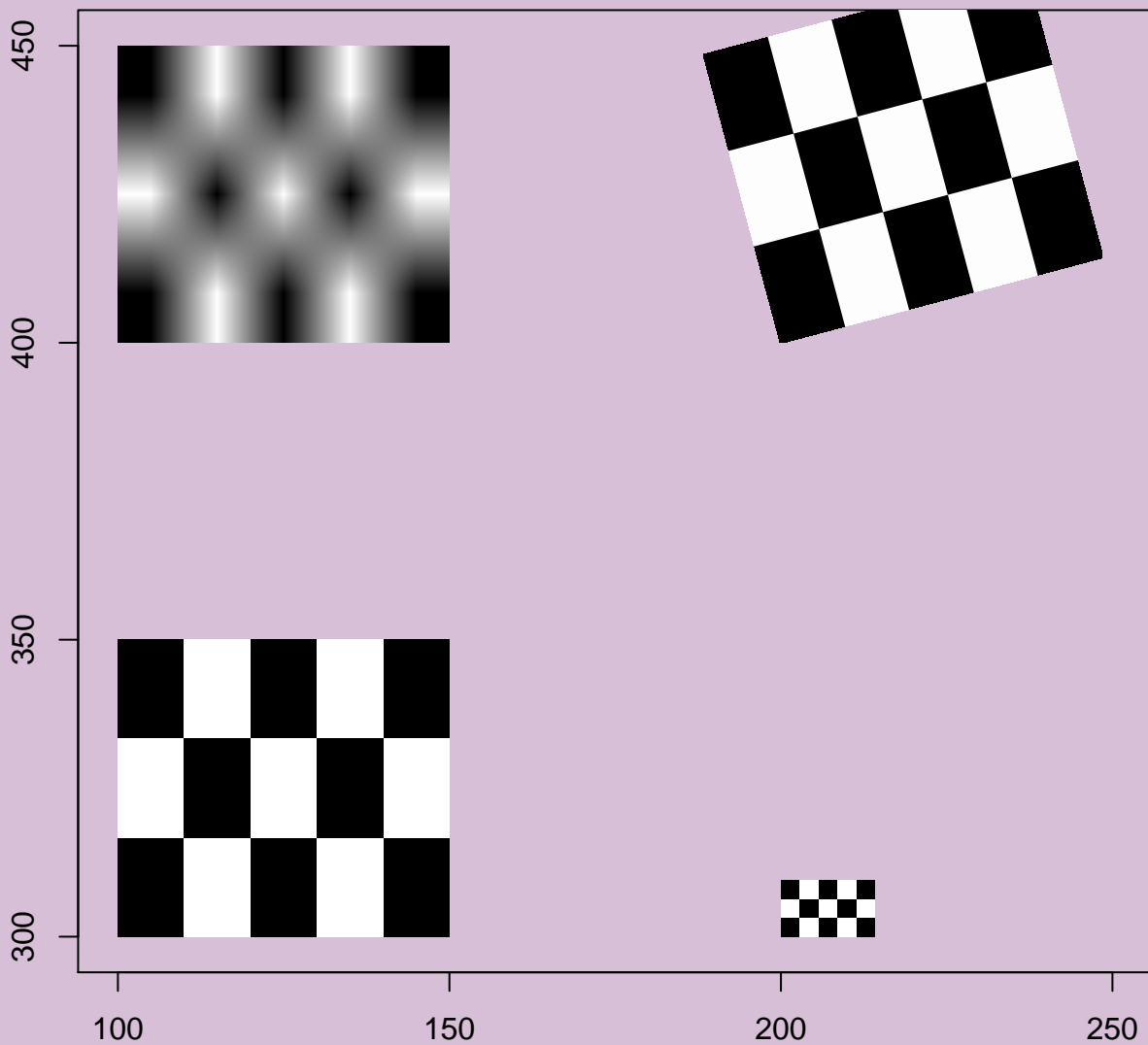


Rule: winding



Rule: evenodd

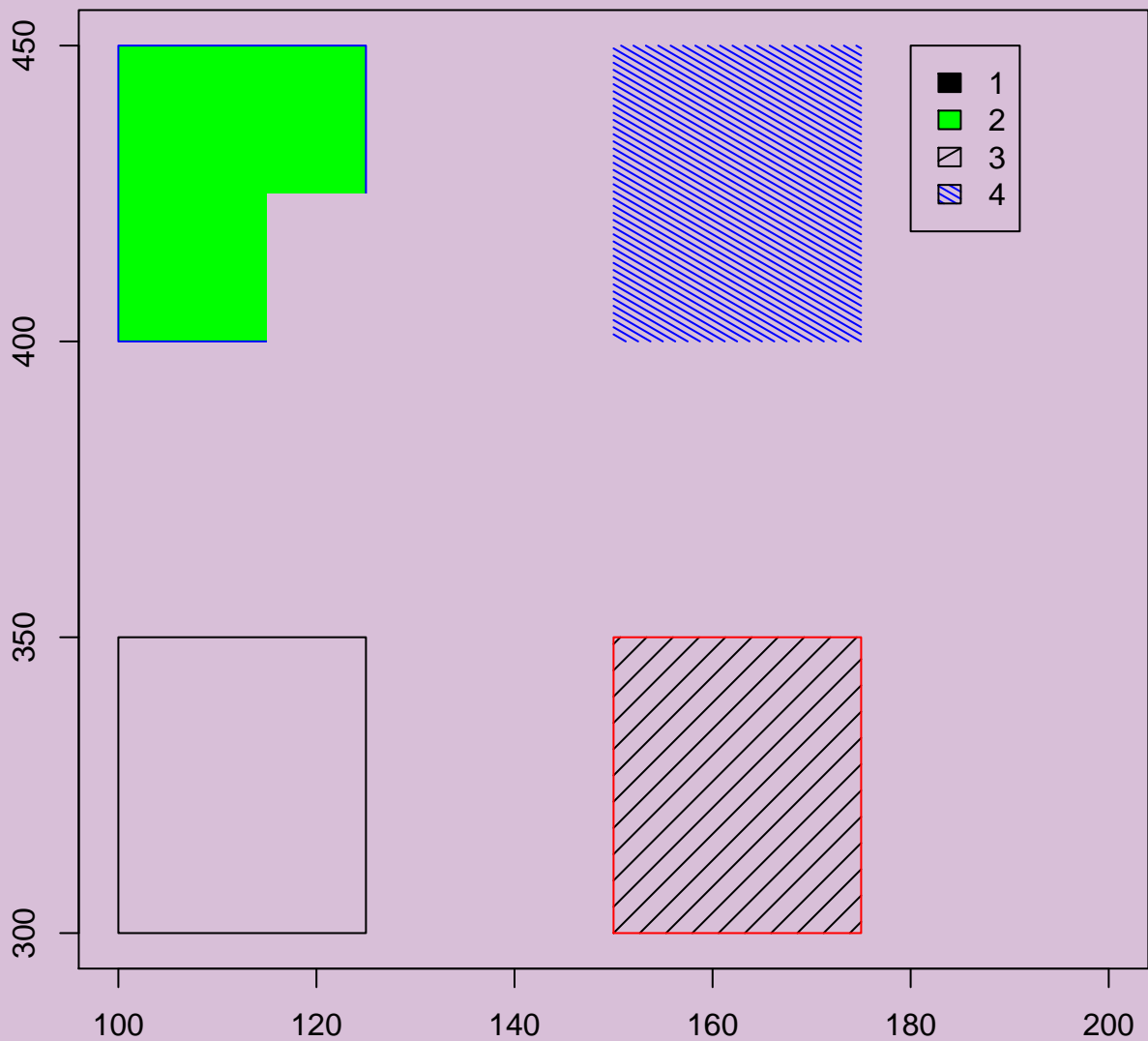




`help("rasterImage")`

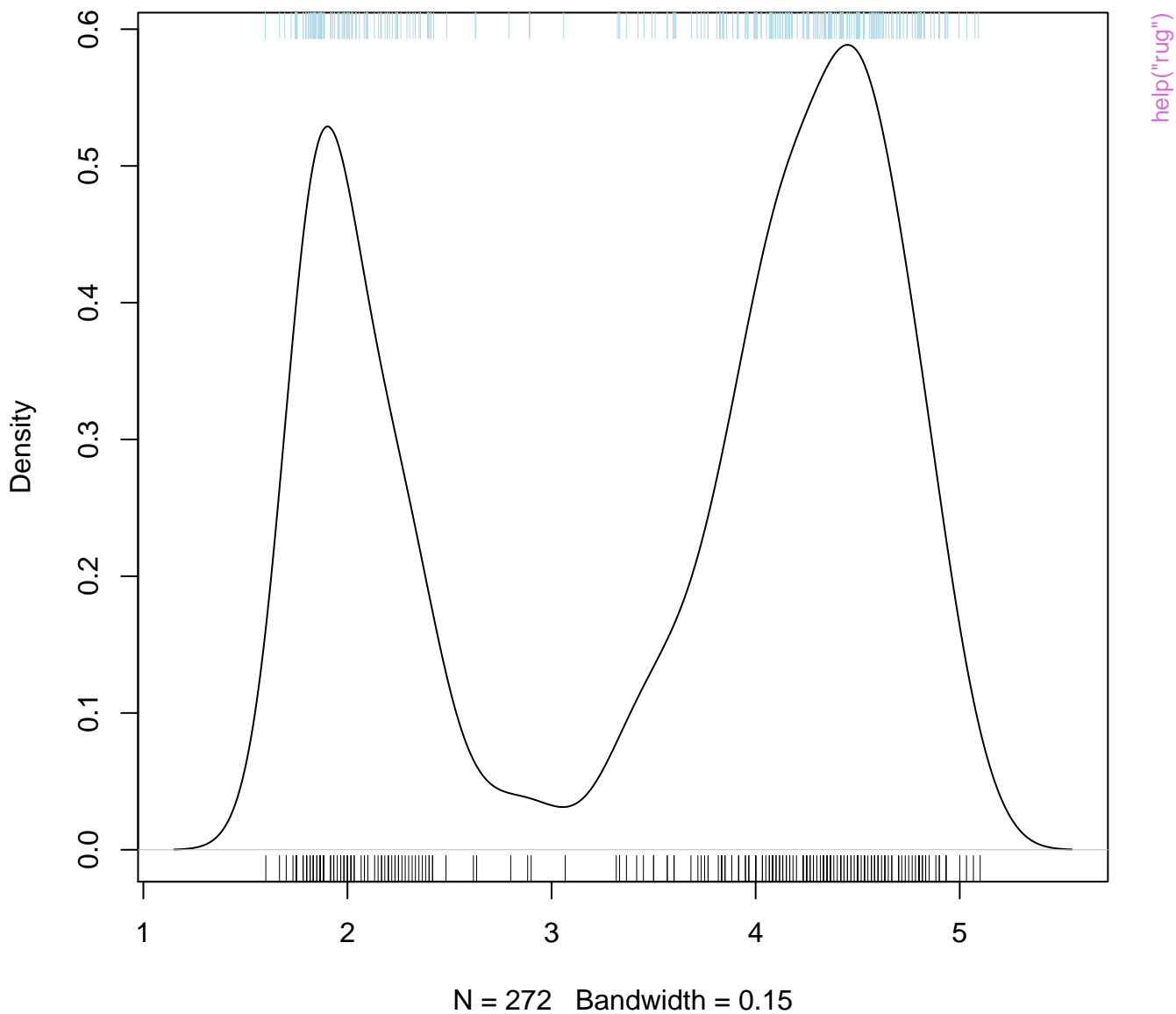
```
+ 2 x 6 rect(*, col = c(NA,0)) and col = c(NA,"m..blue")
```



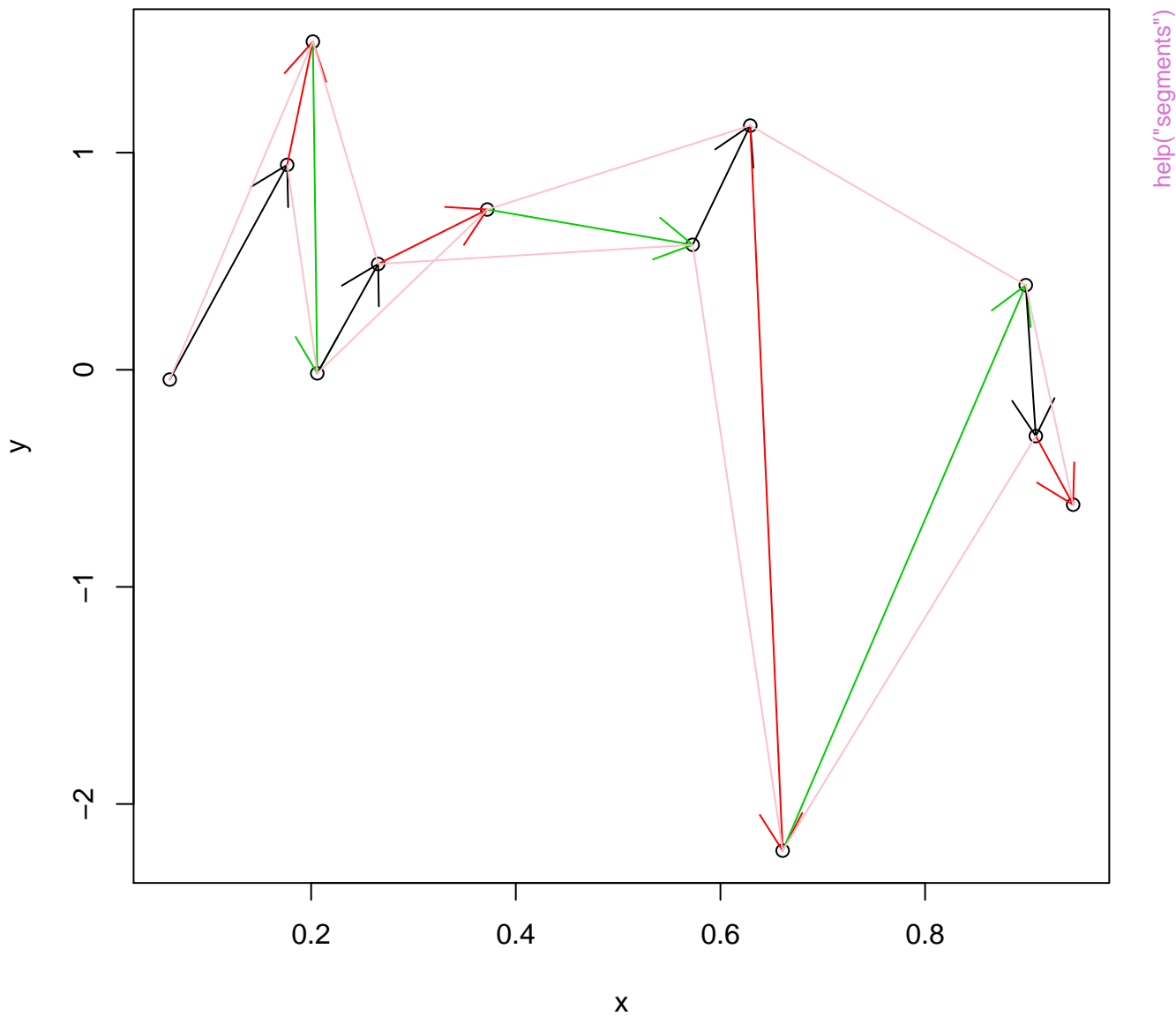


help("rect")

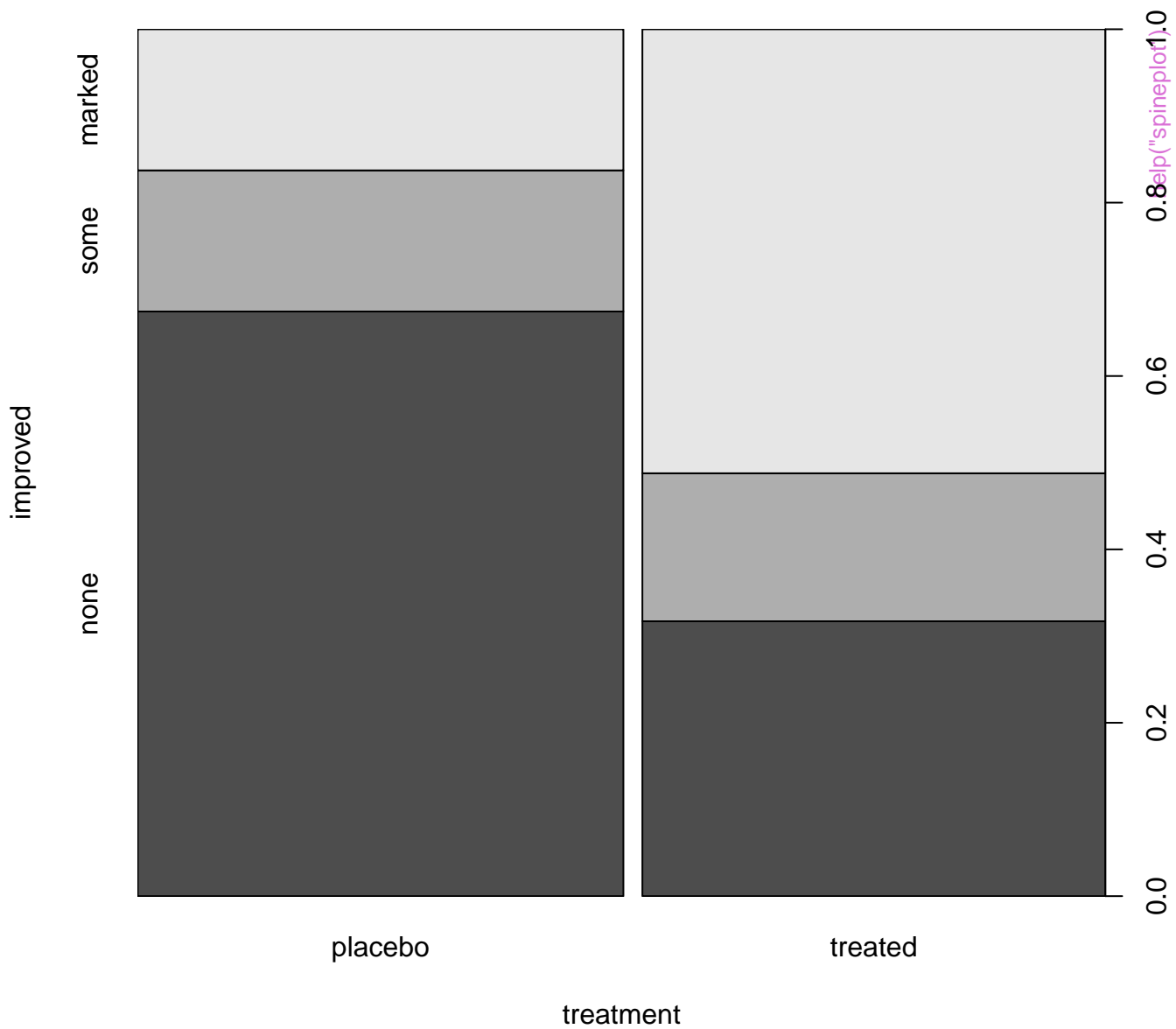
**density.default(x = eruptions, bw = 0.15)**



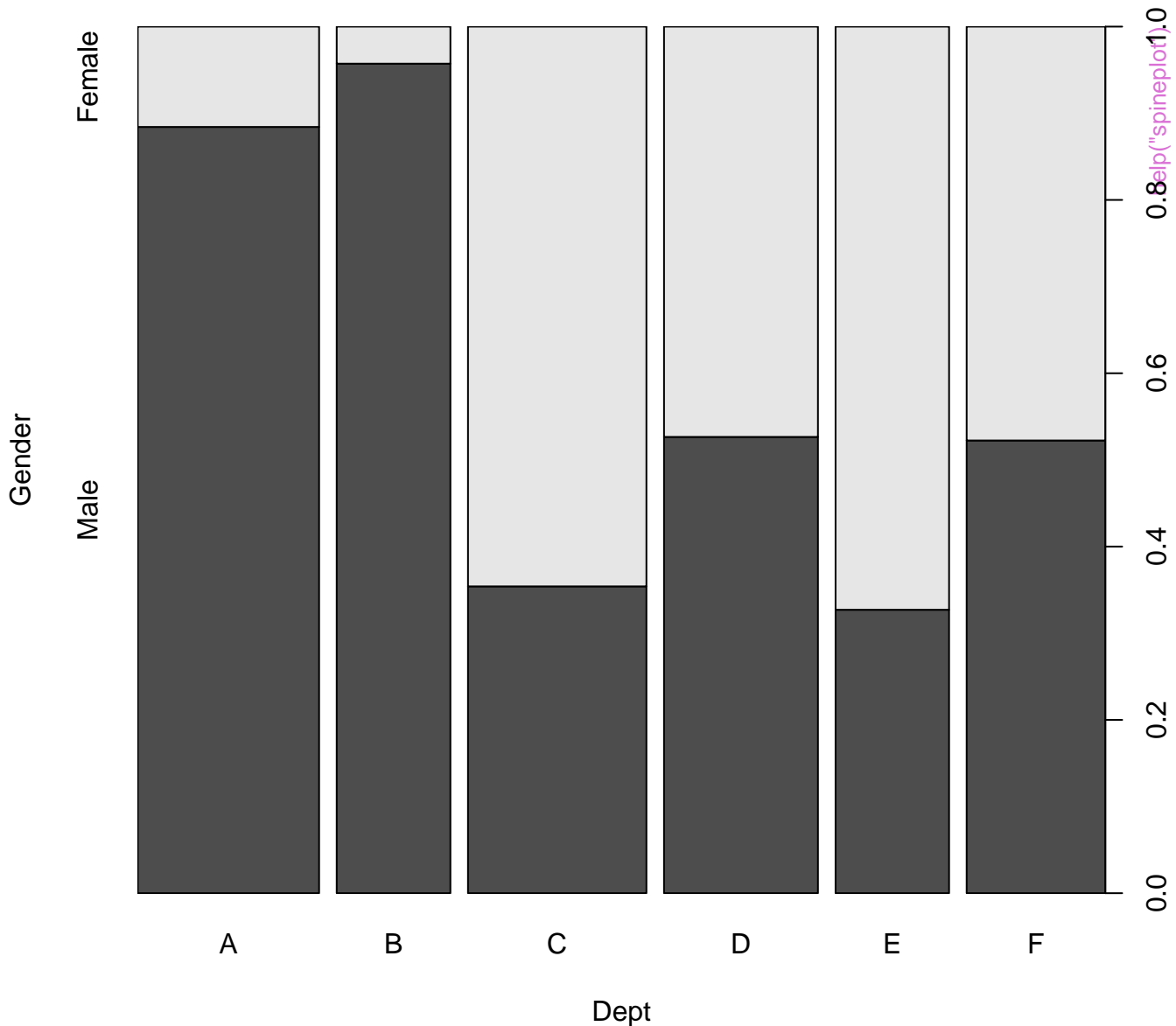
## arrows(.) and segments(.)



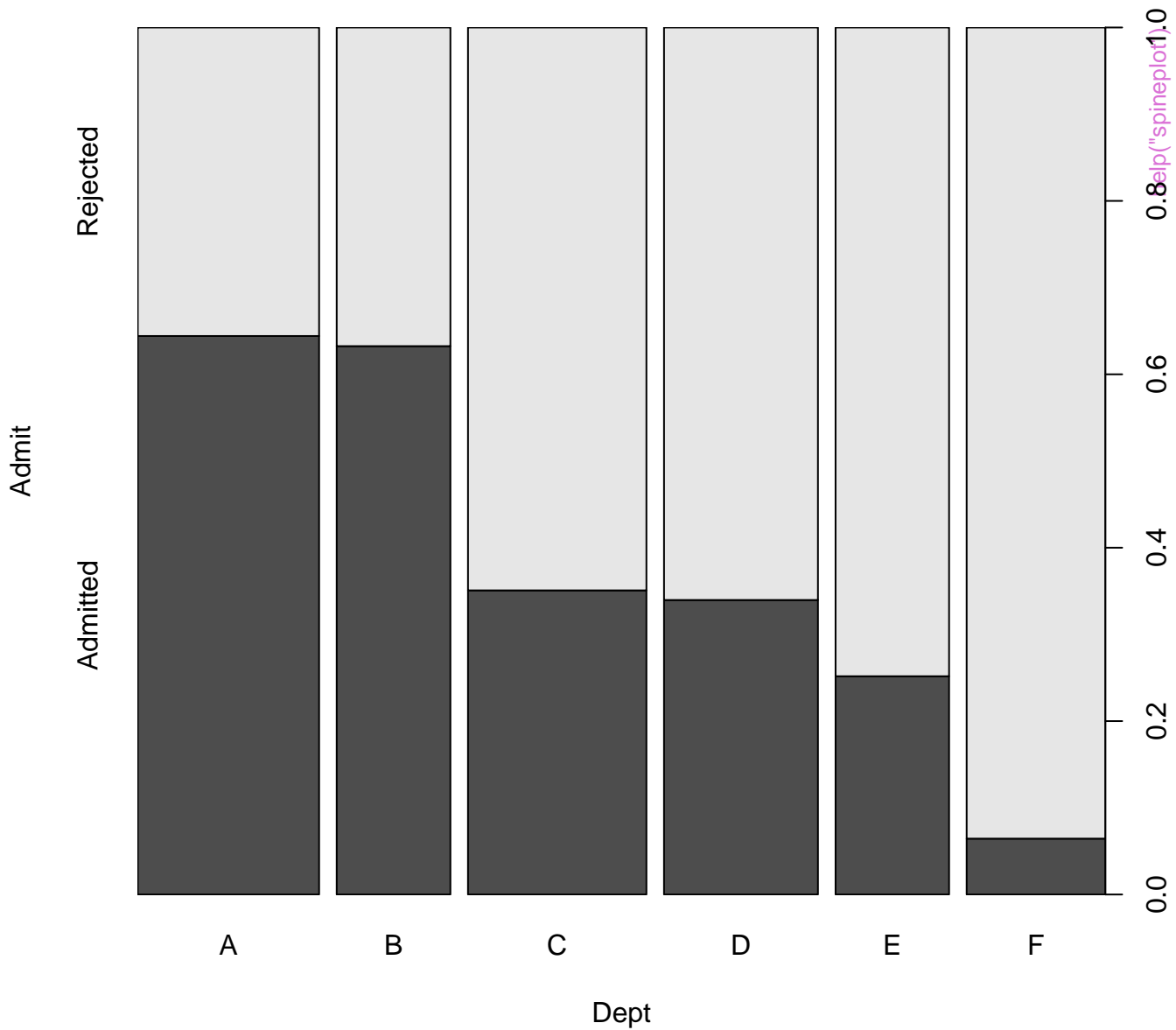


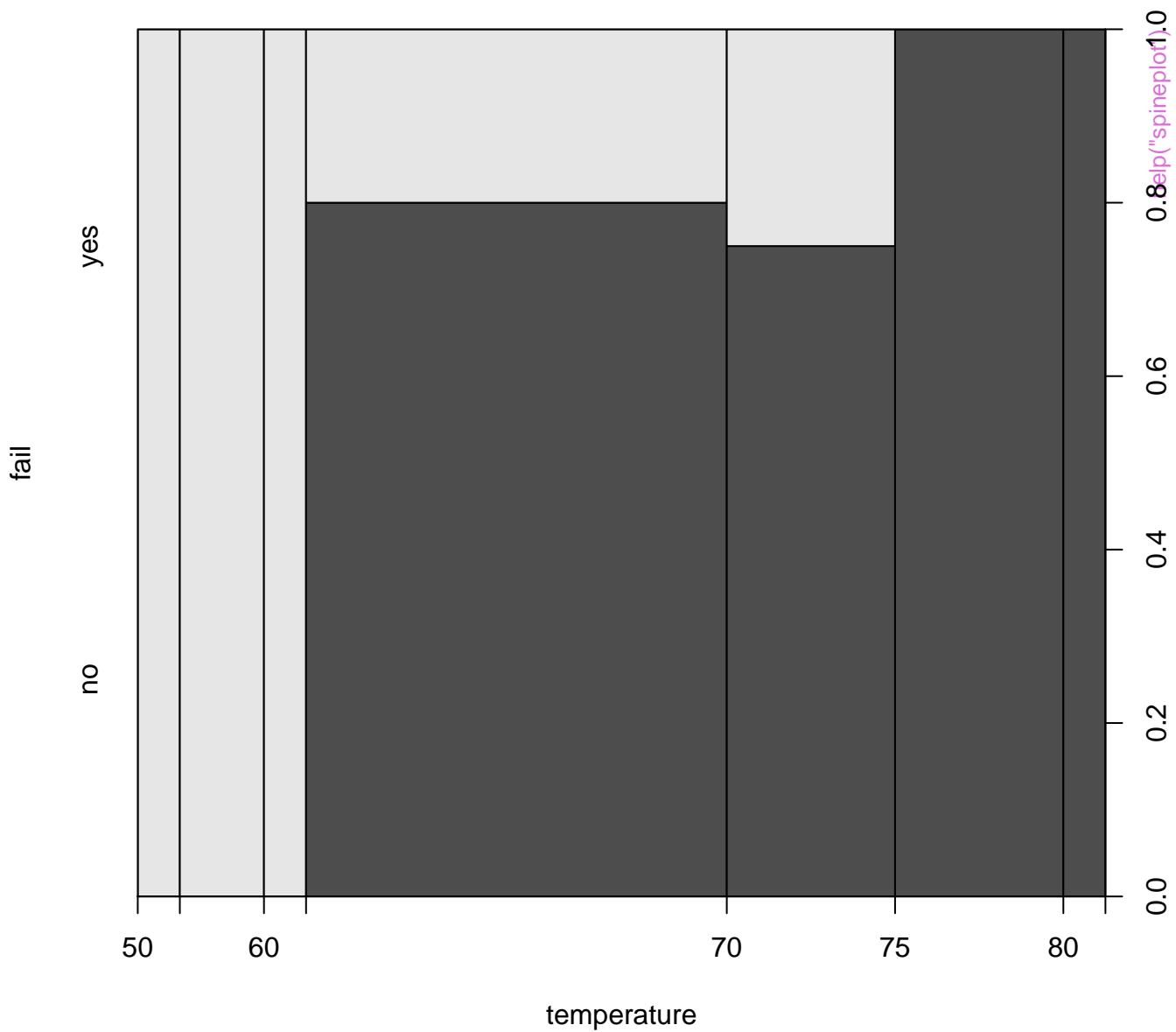


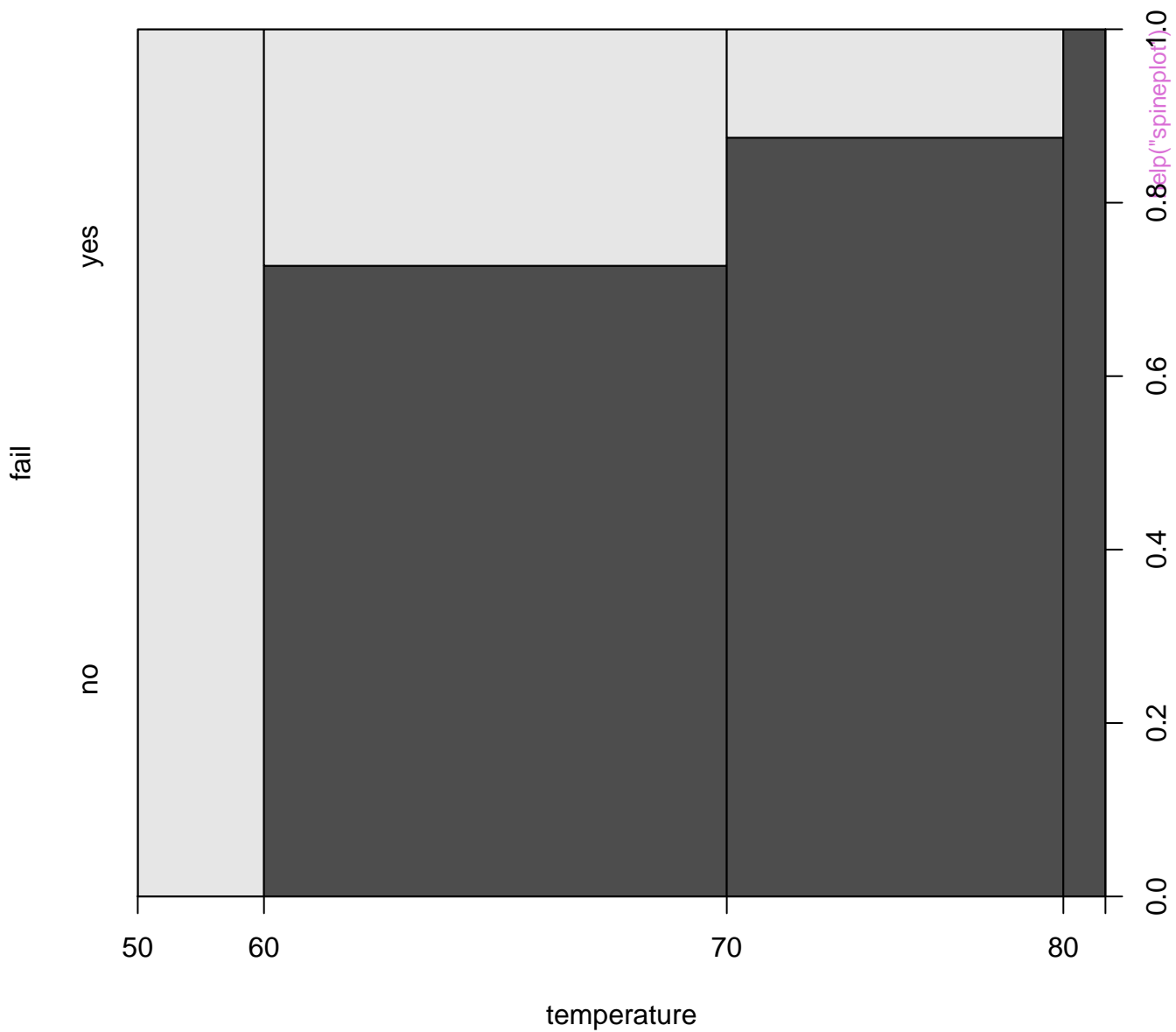
Applications at UCB

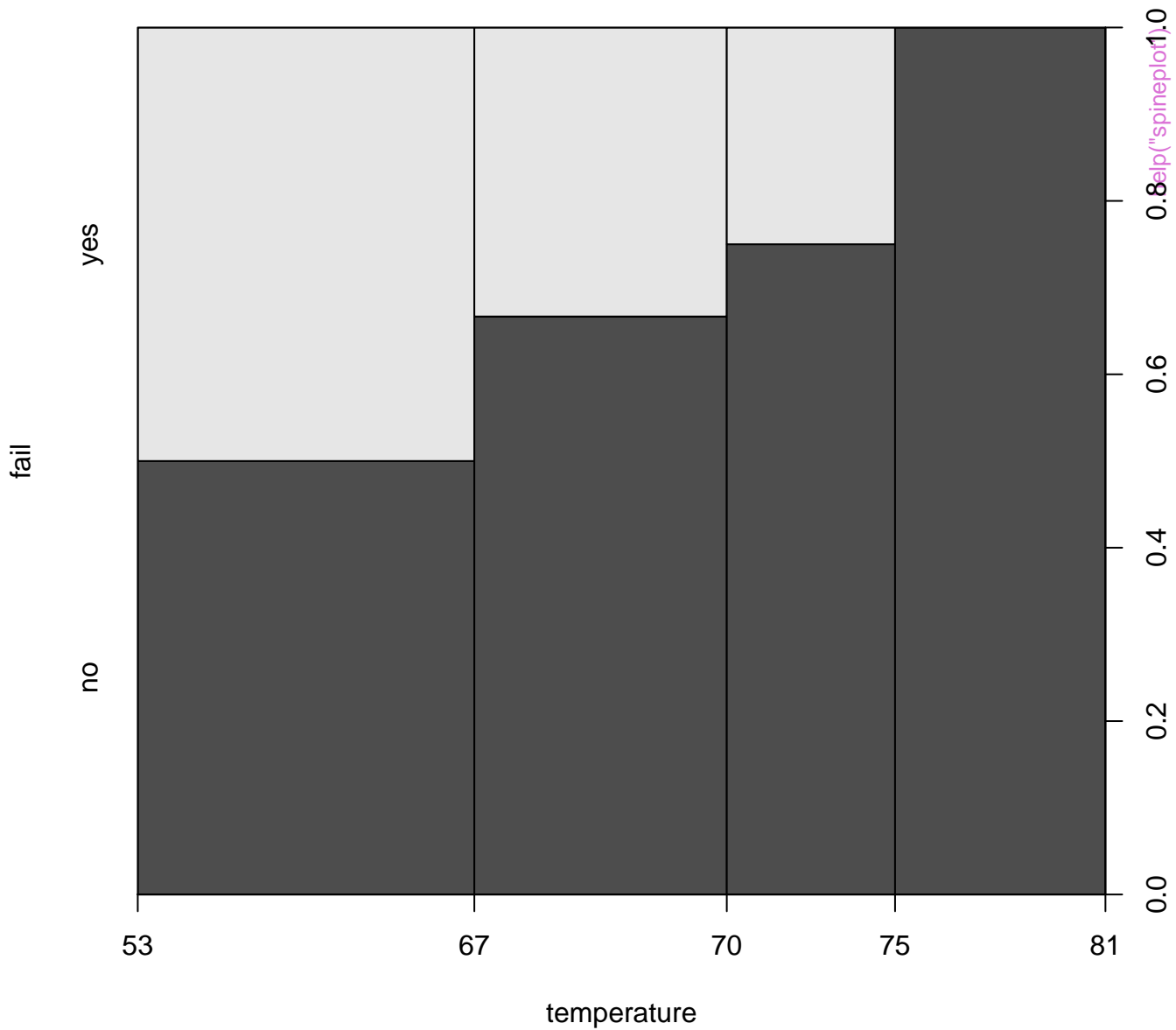


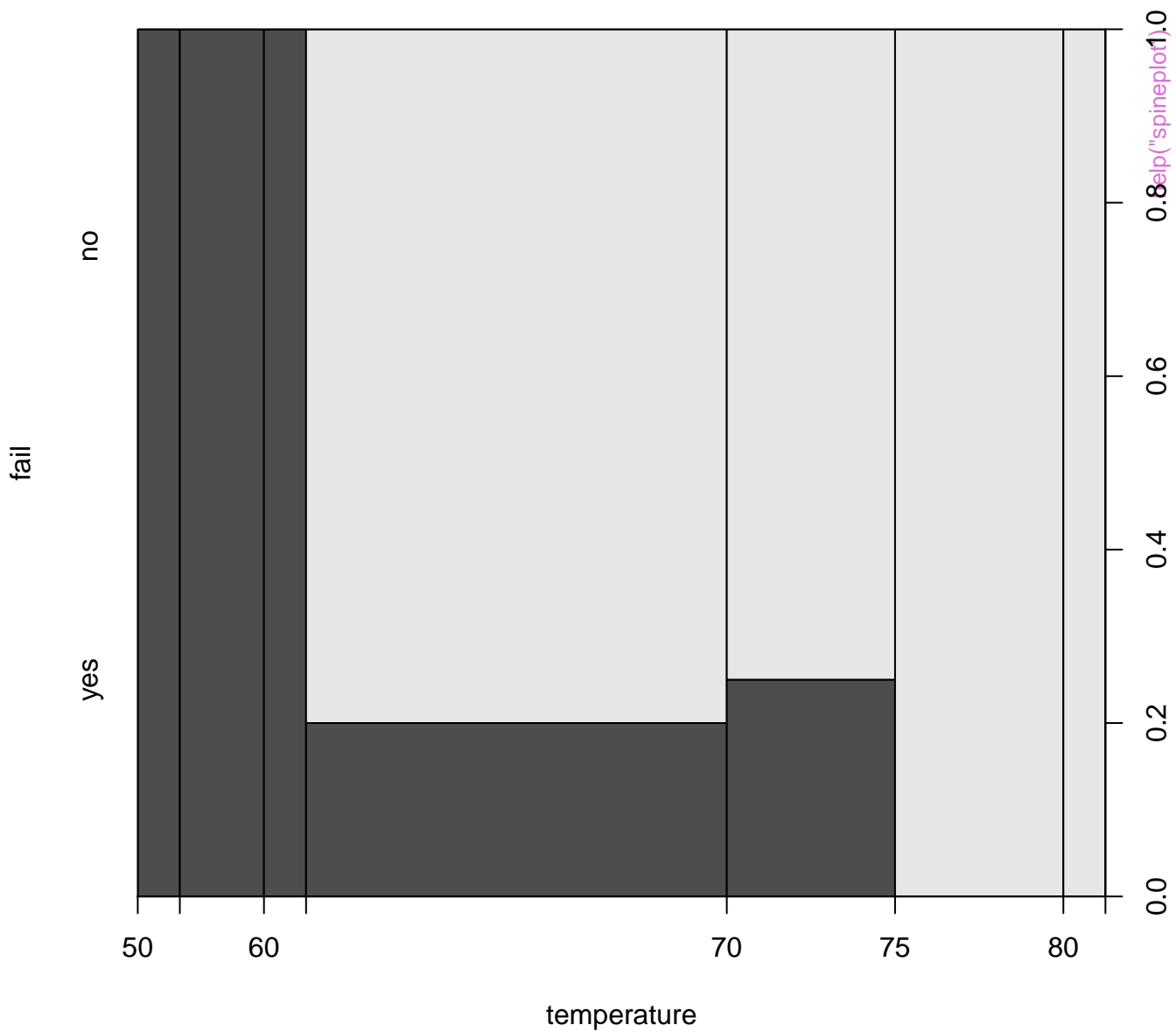
# Admissions at UCB











Motor Trend Cars : stars(\*, full = F)

help("stars")



Mazda RX4



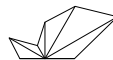
Mazda RX4 Wag



Datsun 710



Hornet 4 Drive



Hornet Sportabout



Valiant



Duster 360



Merc 240D



Merc 230



Merc 280



Merc 280C



Merc 450SE



Merc 450SL



Merc 450SLC



Cadillac Fleetwood



Lincoln Continental



Chrysler Imperial



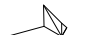
Fiat 128



Honda Civic



Toyota Corolla



Toyota Corona



Dodge Challenger



AMC Javelin



Camaro Z28



Pontiac Firebird



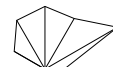
Fiat X1-9



Porsche 914-2



Lotus Europa



Ford Pantera L



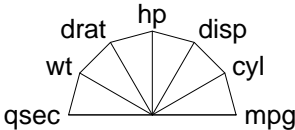
Ferrari Dino



Maserati Bora



Volvo 142E





# Motor Trend Cars : full stars()

help("stars")



Mazda RX4



Mazda RX4 Wag



Datsun 710



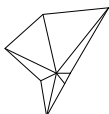
Hornet 4 Drive



Hornet Sportabout



Valiant



Duster 360



Merc 240D



Merc 230



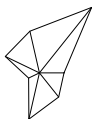
Merc 280



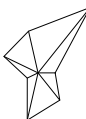
Merc 280C



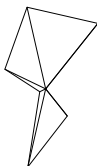
Merc 450SE



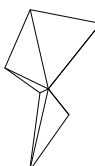
Merc 450SL



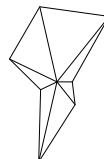
Merc 450SLC



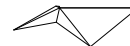
Cadillac Fleetwood



Lincoln Continental



Chrysler Imperial



Fiat 128



Honda Civic



Toyota Corolla



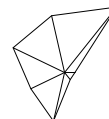
Toyota Corona



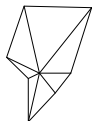
Dodge Challenger



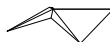
AMC Javelin



Camaro Z28



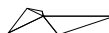
Pontiac Firebird



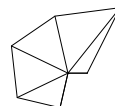
Fiat X1-9



Porsche 914-2



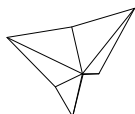
Lotus Europa



Ford Pantera L



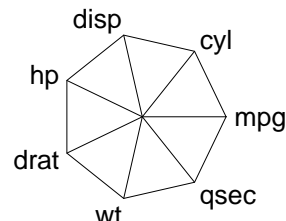
Ferrari Dino



Maserati Bora



Volvo 142E



# Motor Trend Cars

disp

cyl

hp

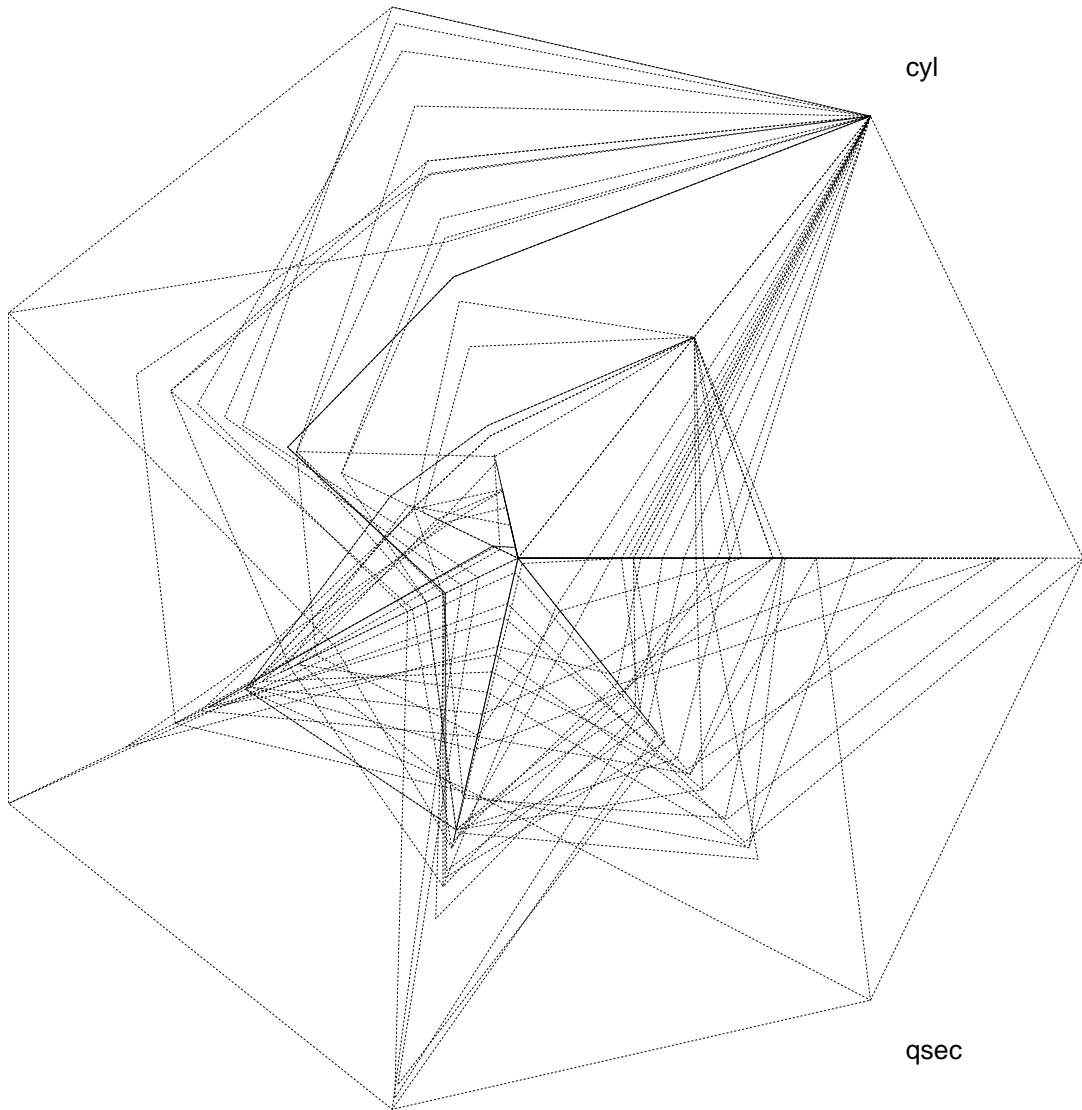
help("stars")

mpg

drat

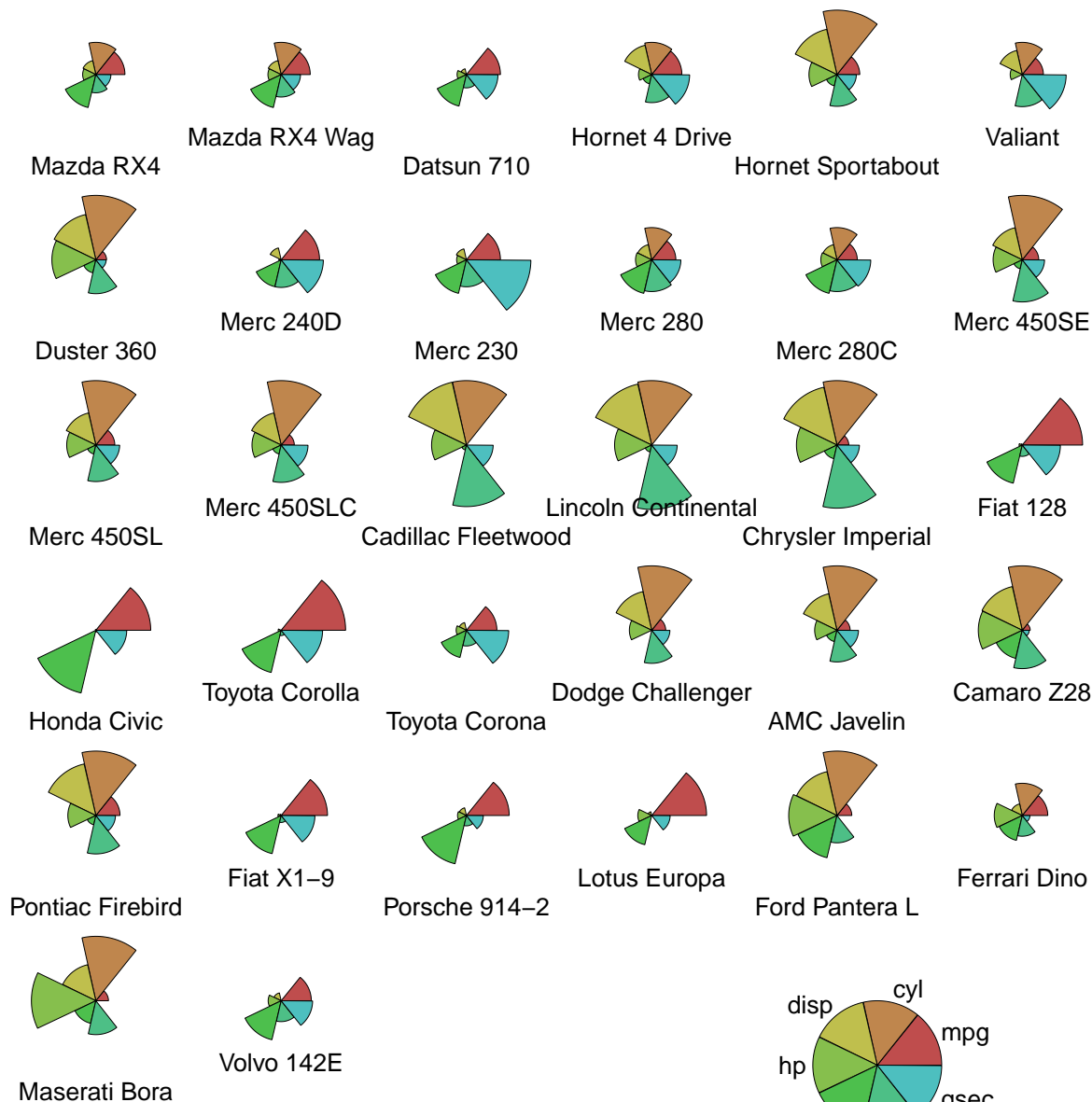
qsec

wt

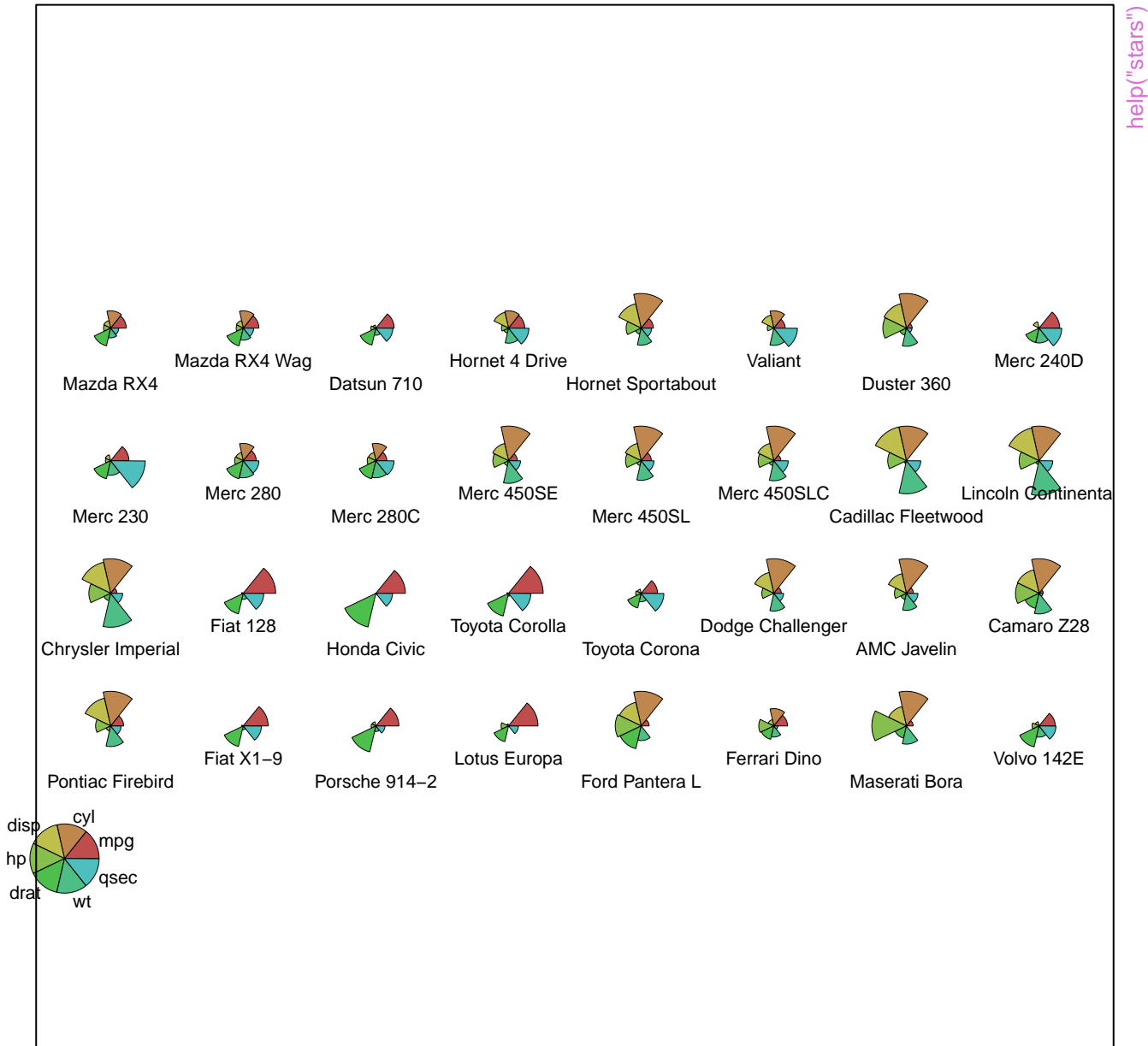


# Motor Trend Cars

help("stars")

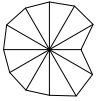


# Motor Trend Cars



# Judge not ...

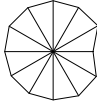
help ("stars")



AARONSON,L.H.



ALEXANDER,J.M.



ARMENTANO,A.J.



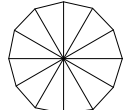
BERDON,R.I.



BRACKEN,J.J.



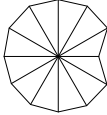
BURNS,E.B.



CALLAHAN,R.J.



COHEN,S.S.



DALY,J.J.



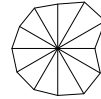
DANNEHY,J.F.



DEAN,H.H.



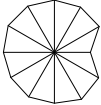
DEVITA,H.J.



DRISCOLL,P.J.



GRILLO,A.E.



HADDEN,W.L.JR.



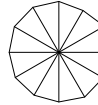
HAMILL,E.C.



HEALEY,A.H.



HULL,T.C.



LEVINE,I.



LEVISTER,R.L.



MARTIN,L.F.



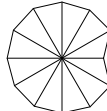
MCGRATH,J.F.



MIGNONE,A.F.



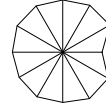
MISSAL,H.M.



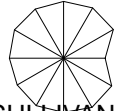
MULVEY,H.M.



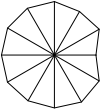
NARUK,H.J.



O'BRIEN,F.J.



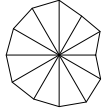
O'SULLIVAN,T.J.



PASKEY,L.



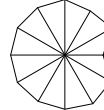
RUBINOW,J.E.



SADEN,G.A.



SATANIELLO,A.G.



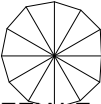
SHEA,D.M.



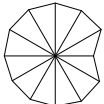
SHEA,J.F.JR.



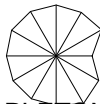
SIDOR,W.J.



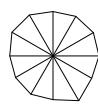
SPEZIALE,J.A.



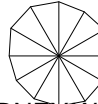
SPONZO,M.J.



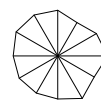
STAPLETON,J.F.



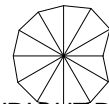
TESTO,R.J.



TIERNEY,W.L.JR.



WALL,R.A.

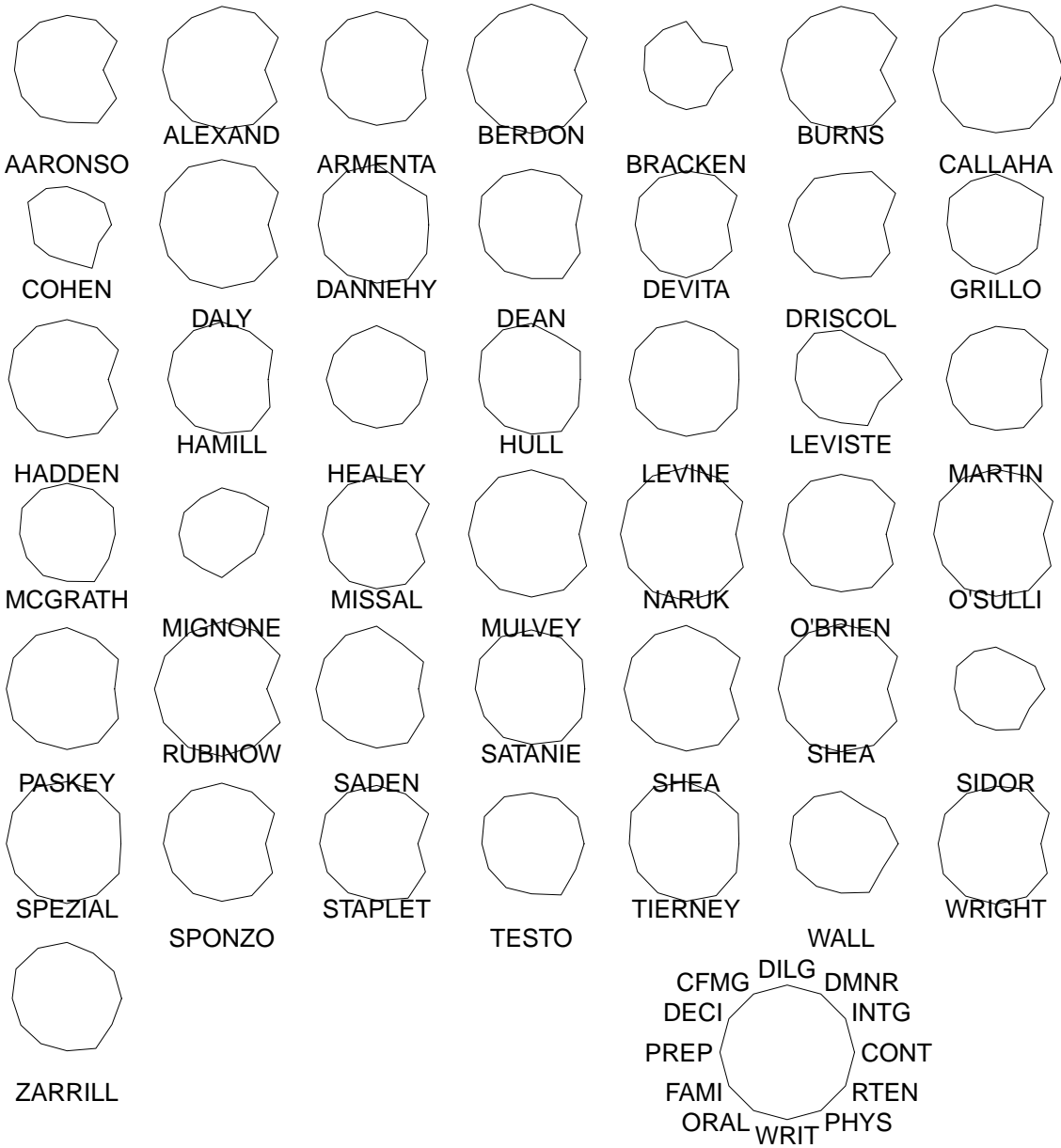


WRIGHT,D.B.



ZARRILLI,K.J.

CFMG  
DECI  
PREP  
FAMI  
ORAL  
DILG  
DMNR  
INTG  
CONT  
RTEN  
PHYS  
WRIT



# Judge not ...

help("stars")

AARONSO

ALEXAND

ARMENTA

BERDON

BRACKEN

BURNS

CALLAHA

COHEN

DALY

DANNEHY

DEAN

DEVITA

DRISCOL

GRILLO

HADDEN

HAMILL

HEALEY

HULL

LEVINE

LEVISTE

MARTIN

MCGRATH

MIGNONE

MISSAL

MULVEY

NARUK

O'BRIEN

O'SULLI

PASKEY

RUBINOW

SADEN

SATANIE

SHEA

SHEA

SIDOR

SPEZIAL

SPONZO

STAPLET

TESTO

TIERNEY

WALL

WRIGHT

ZARRILL

CFMG

DILG

DMNR

DECI

INTG

PREP

CONT

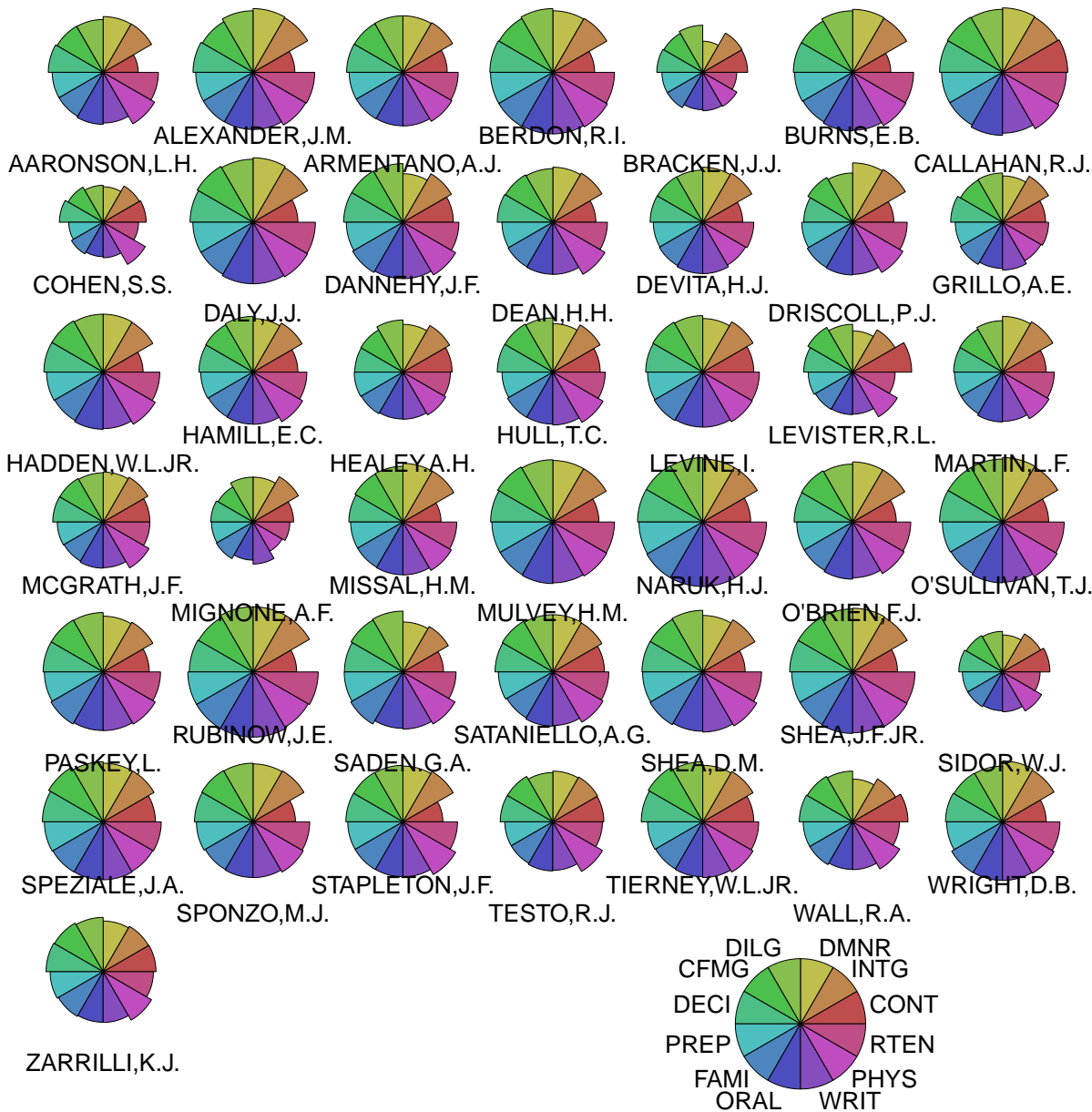
FAMI

RTEN

ORAL

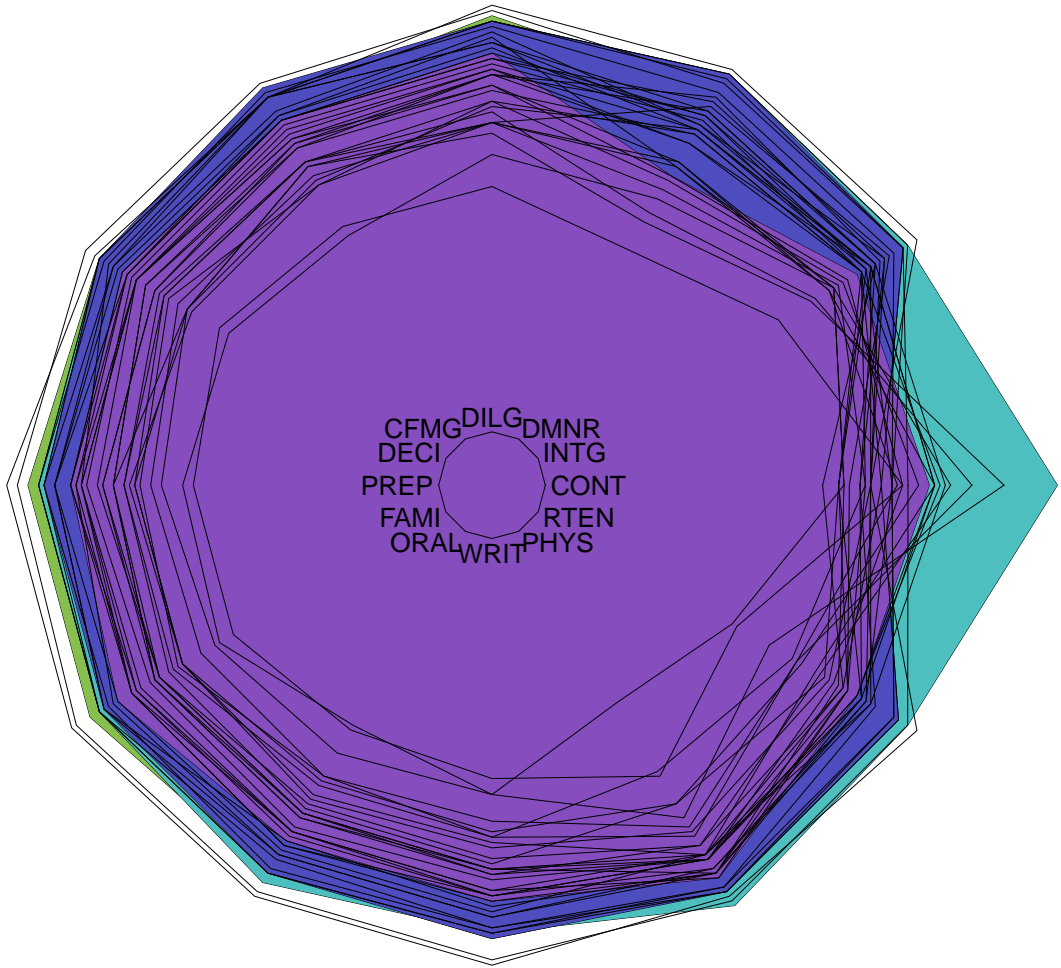
WRIT

PHYS



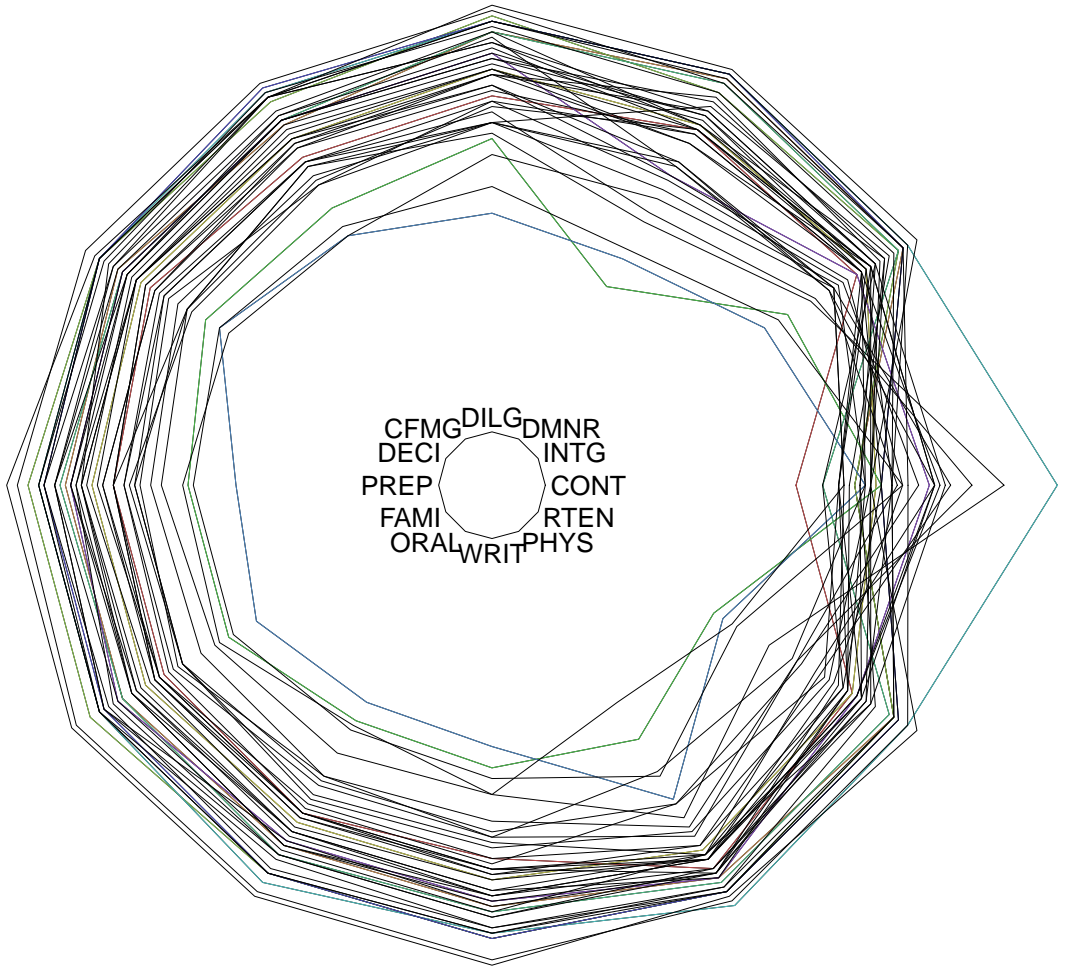


# US Judges rated

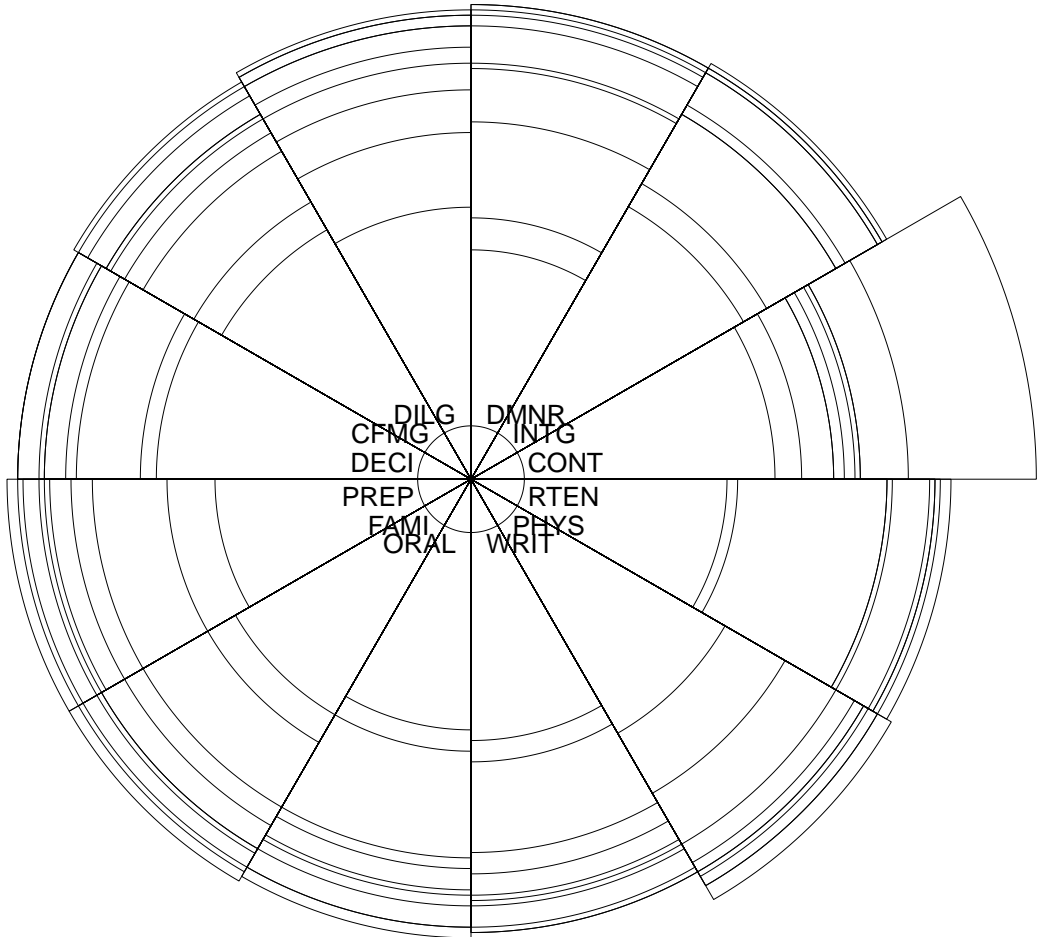


help("stars")

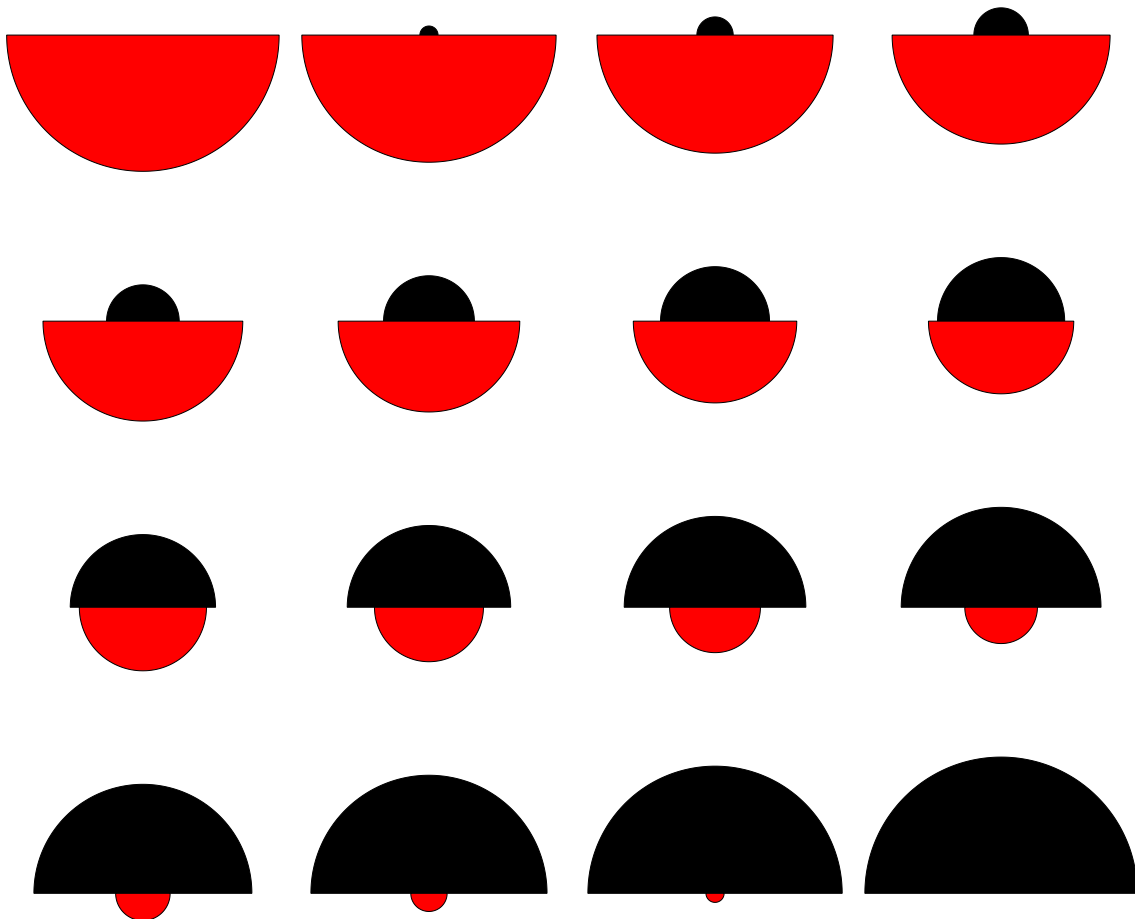
# US Judges rated



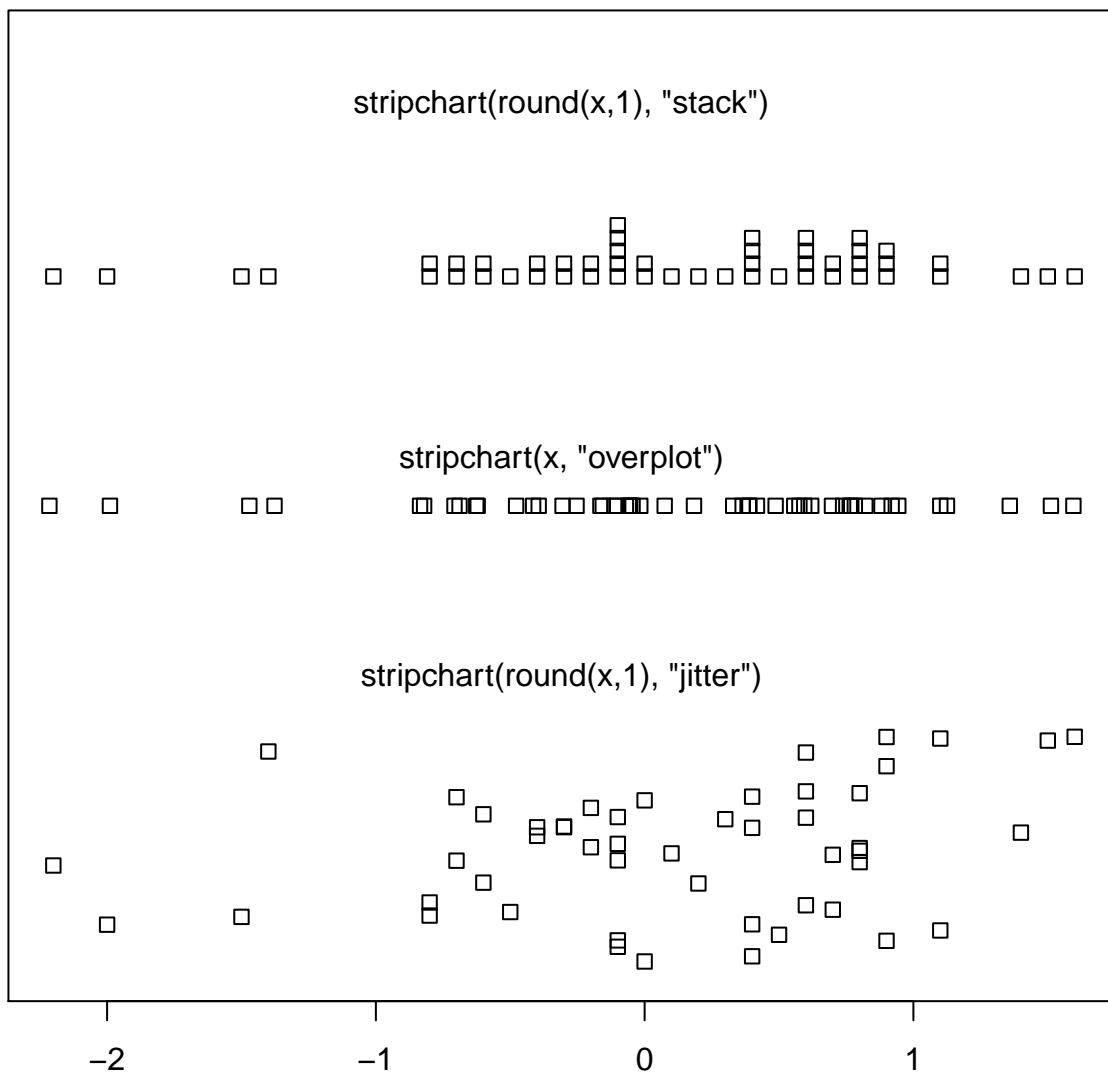
# US Judges 1–10



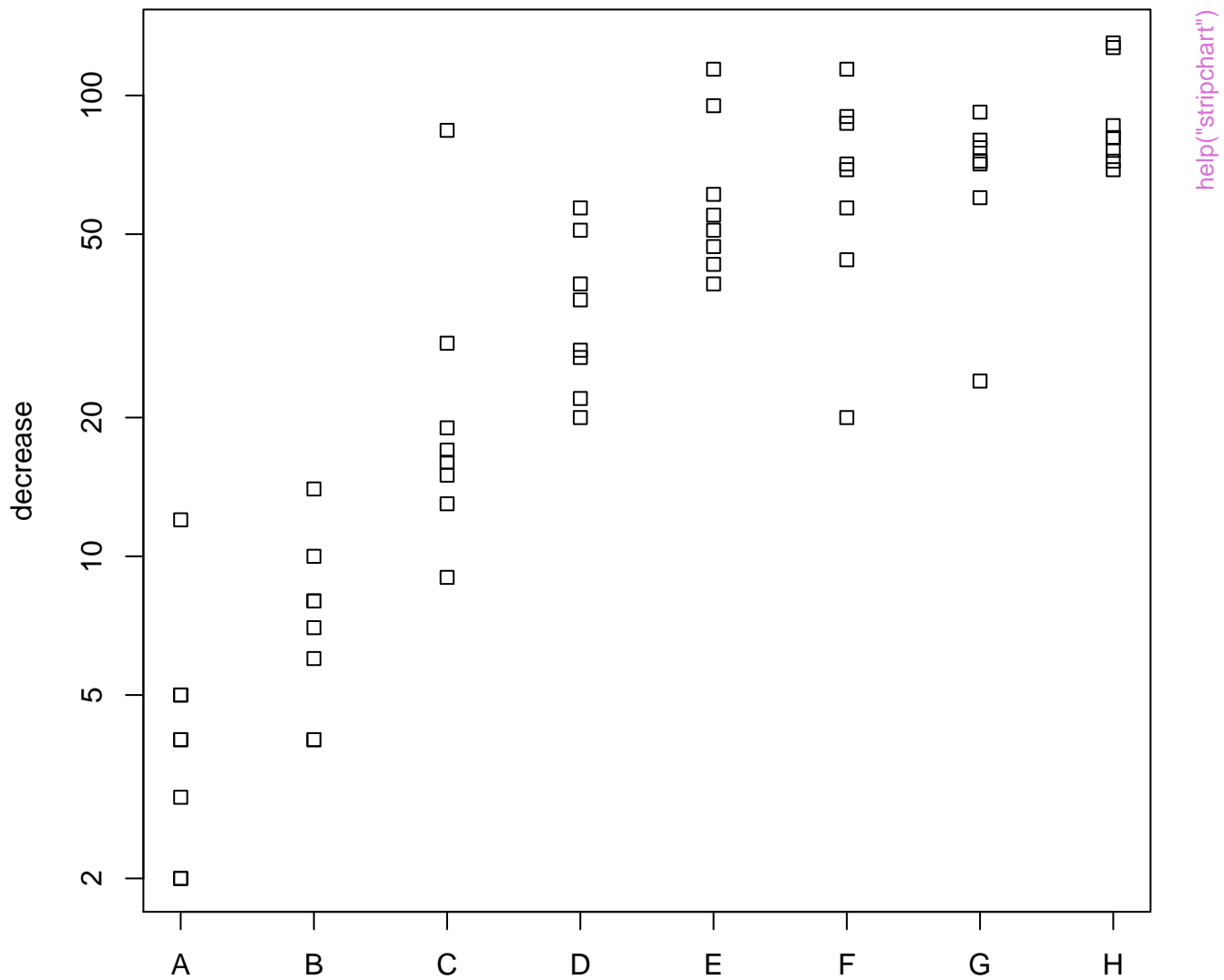
A Joke -- do *\*not\** use symbols on 2D data!



help("stars")

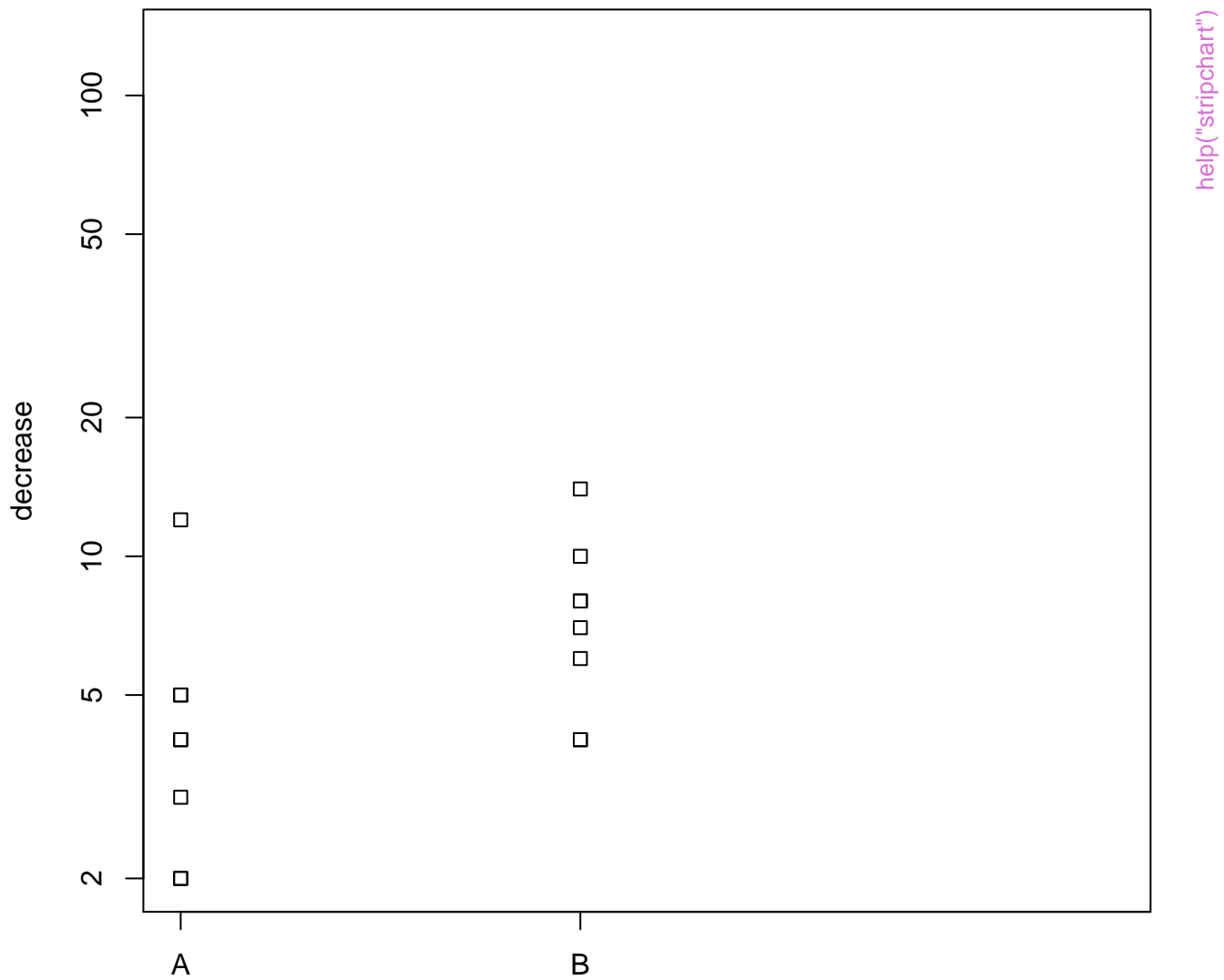


# stripchart(OrchardSprays)

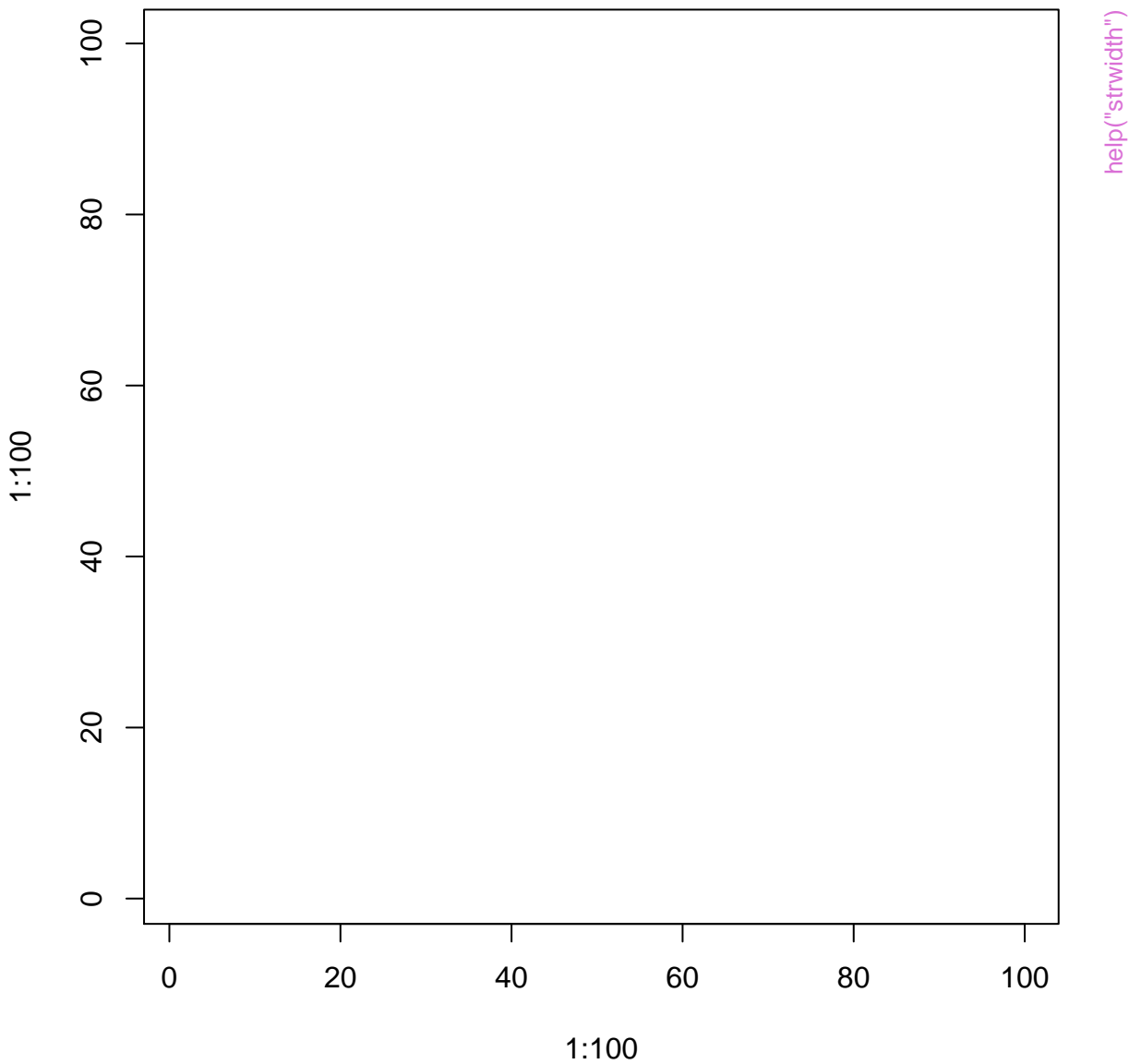


help("stripchart")

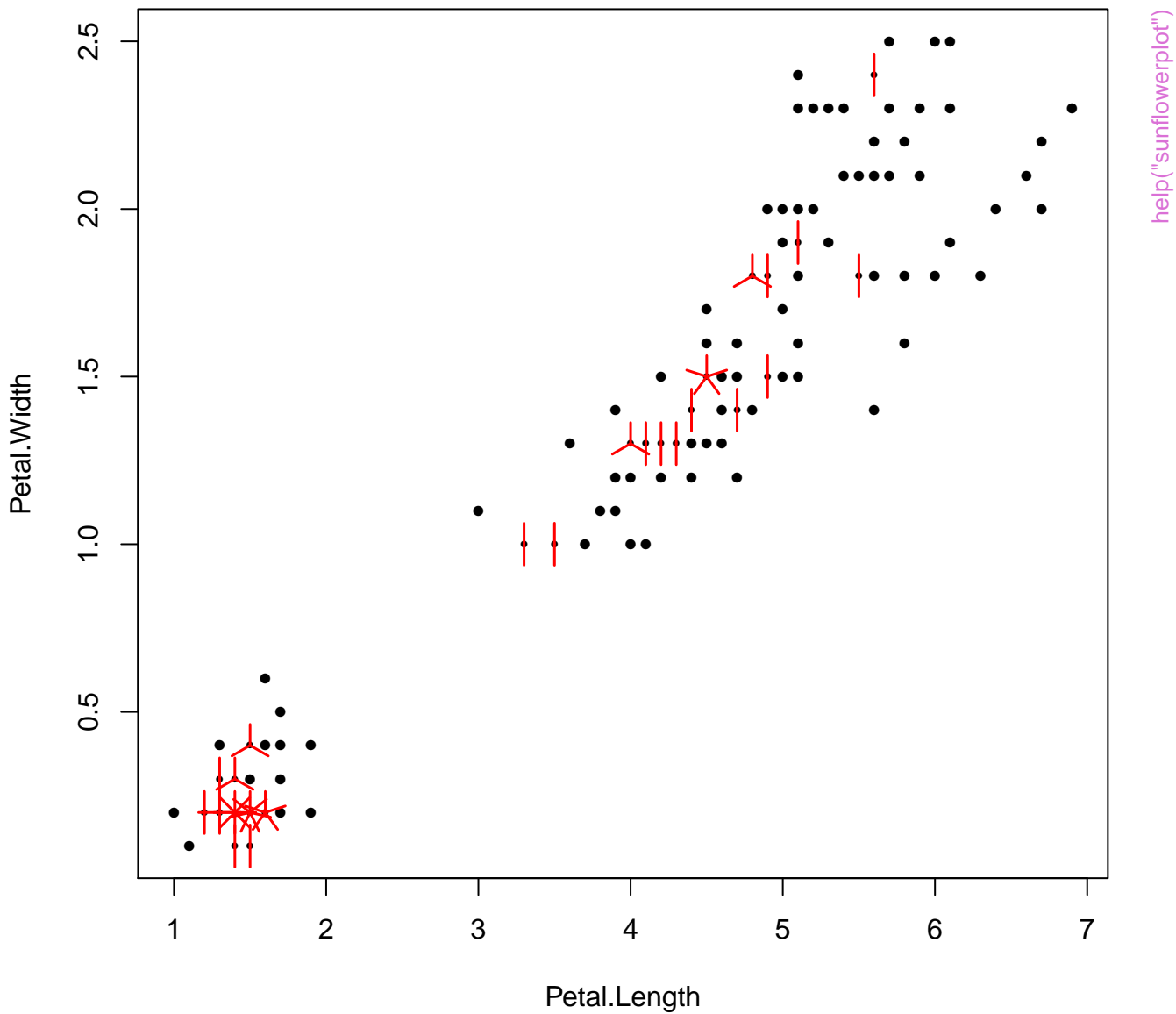
# stripchart(OrchardSprays)

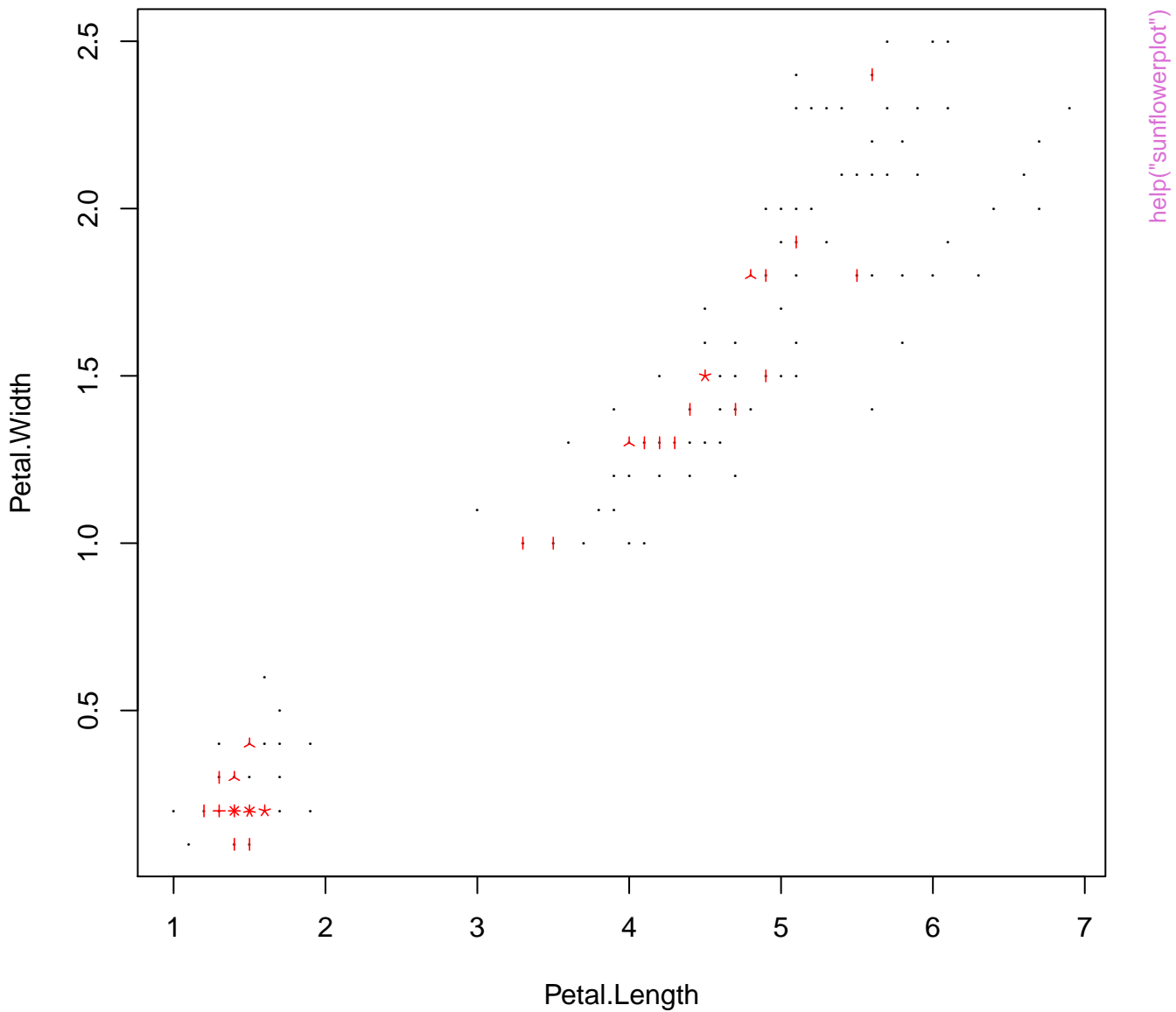


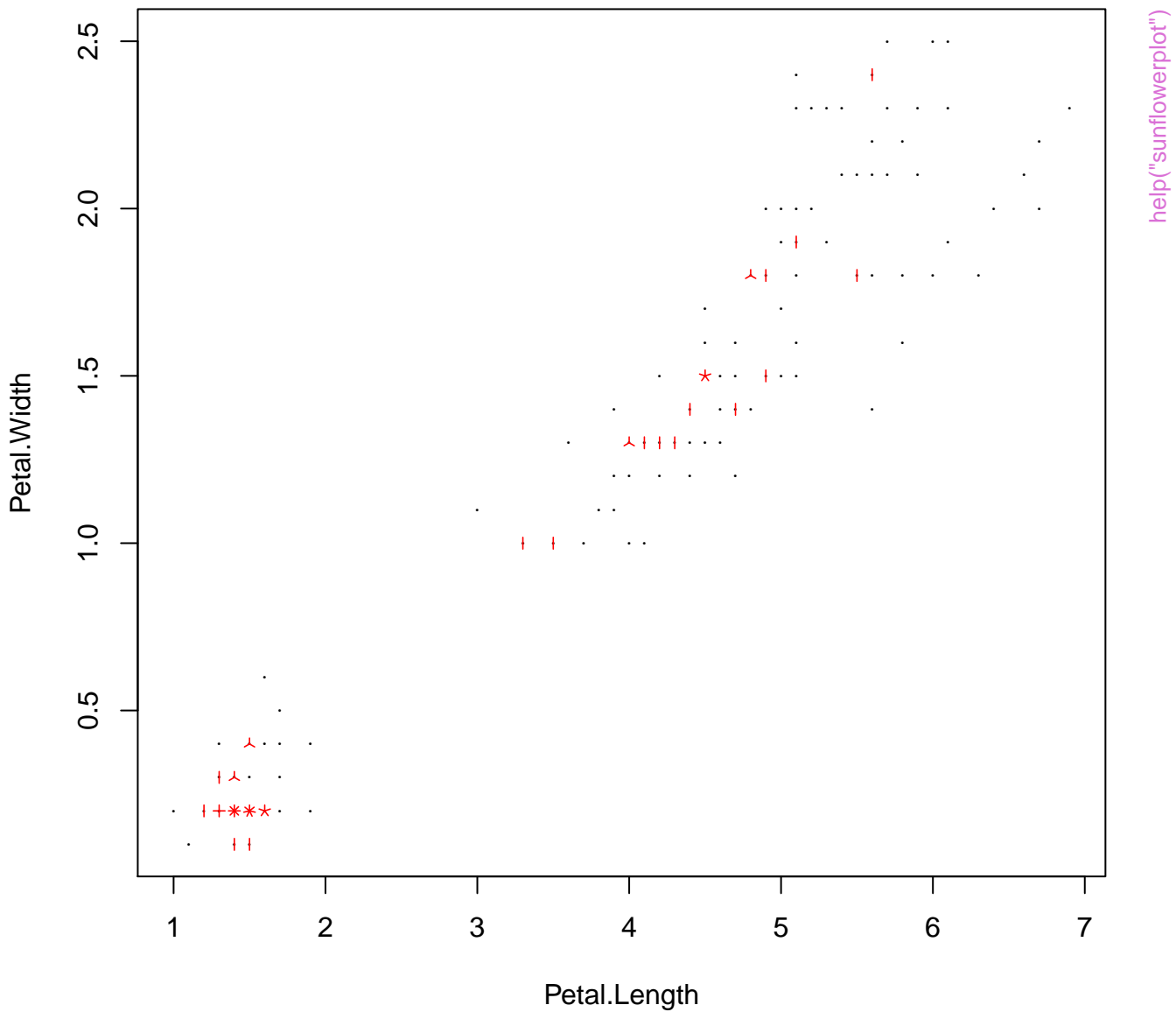
help("stripchart")



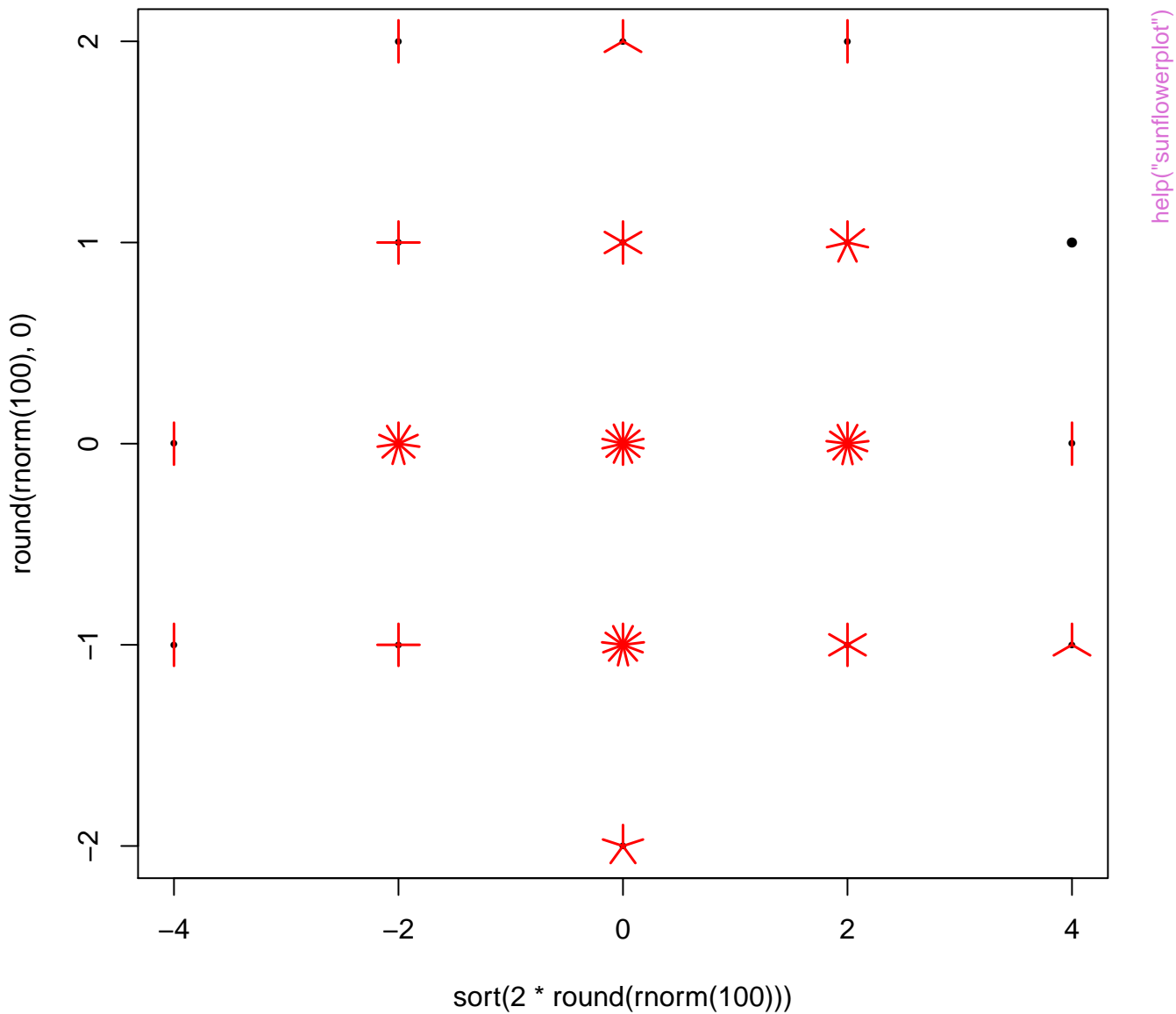




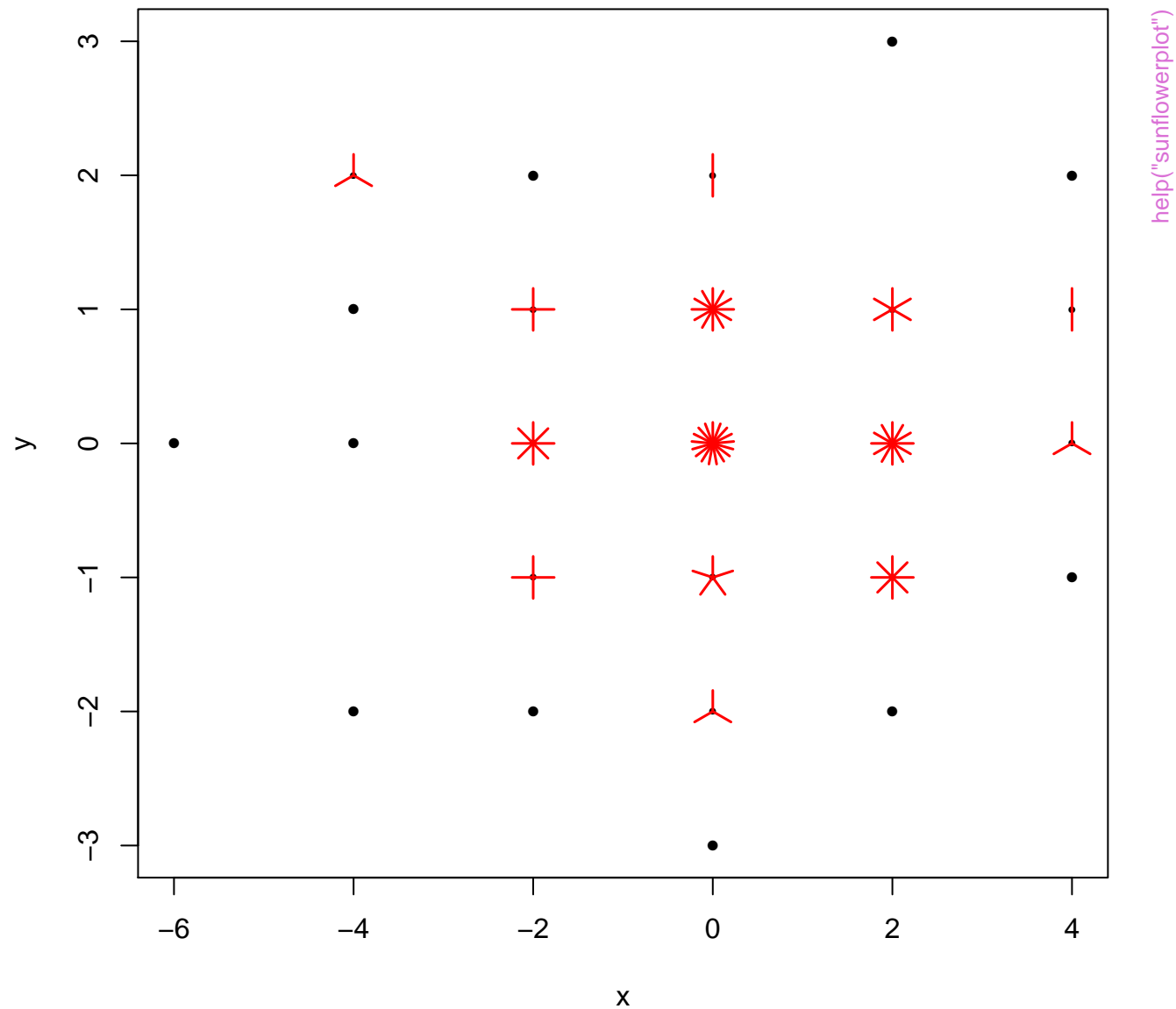




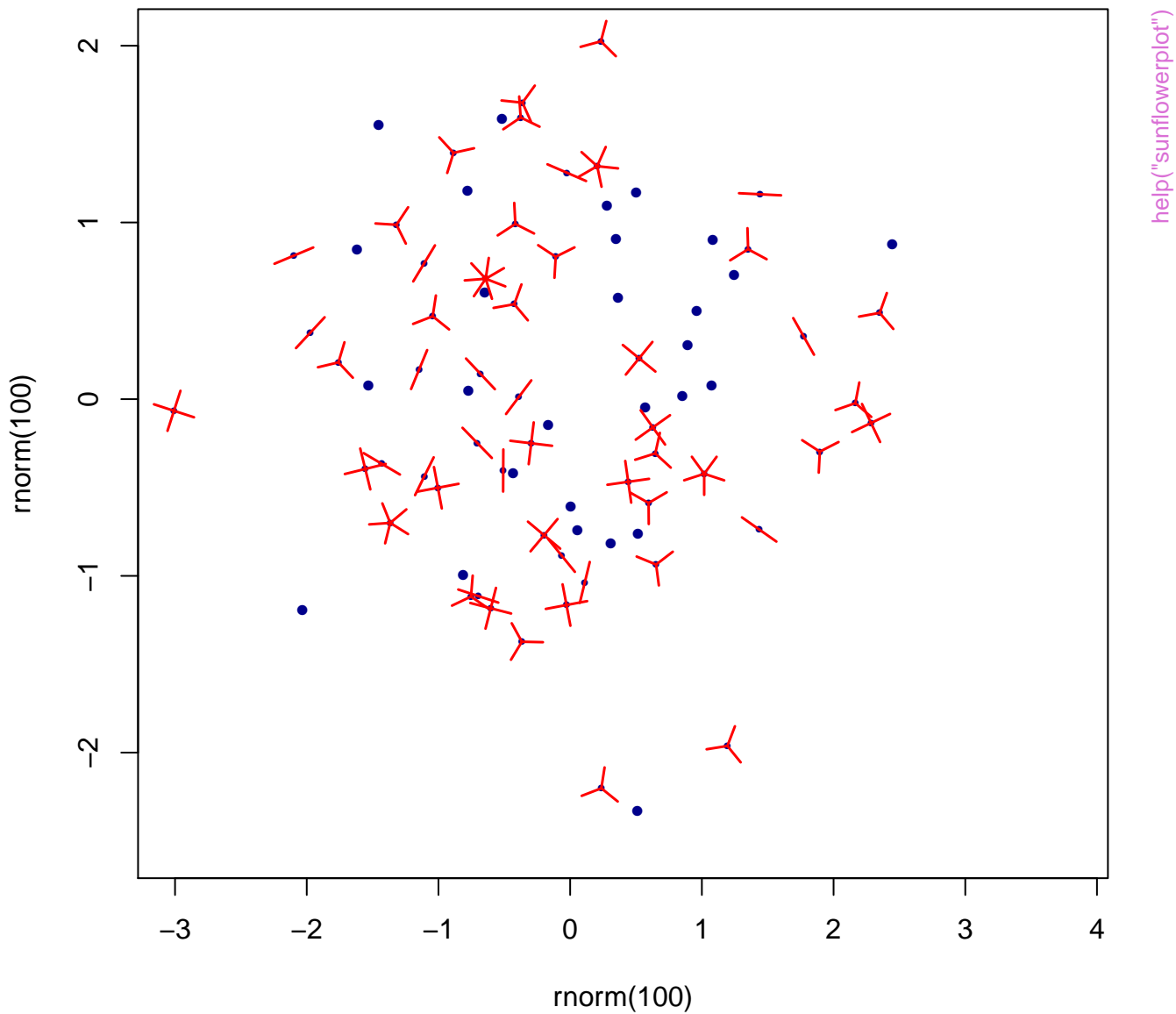
**Sunflower Plot of Rounded  $N(0,1)$**

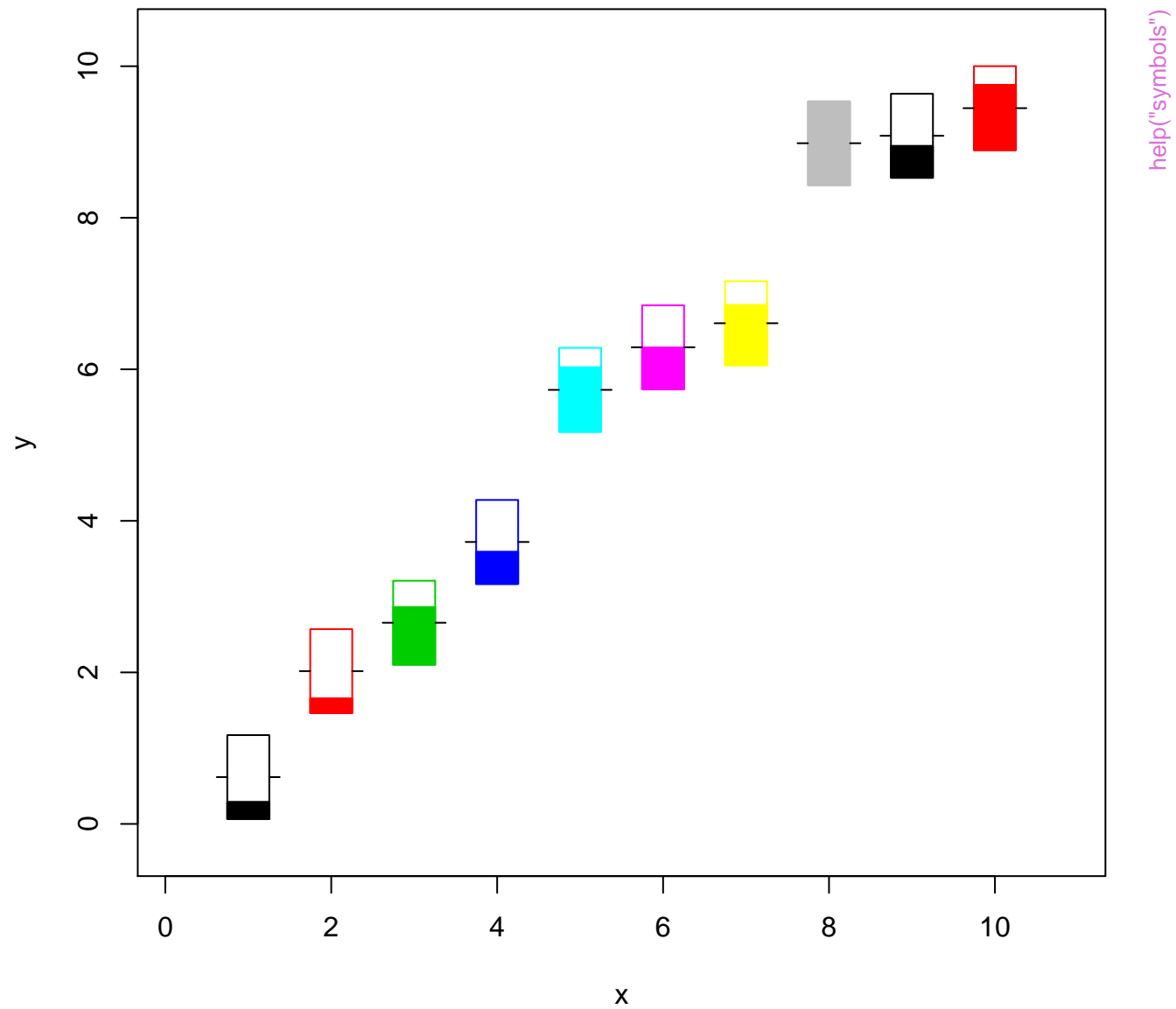


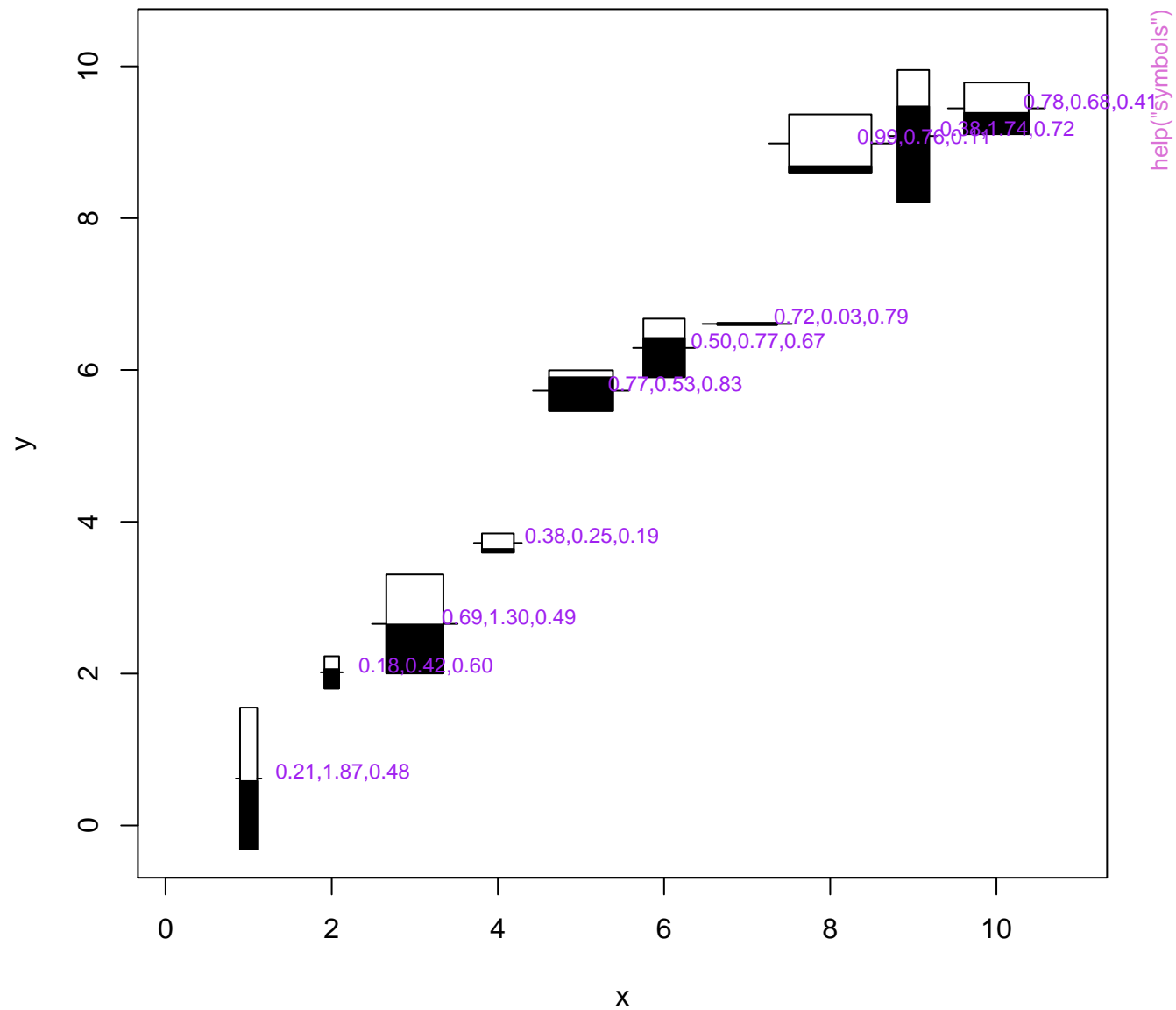
2nd Sunflower Plot of Rounded  $N(0,1)$



Sunflower plot (marked point process)

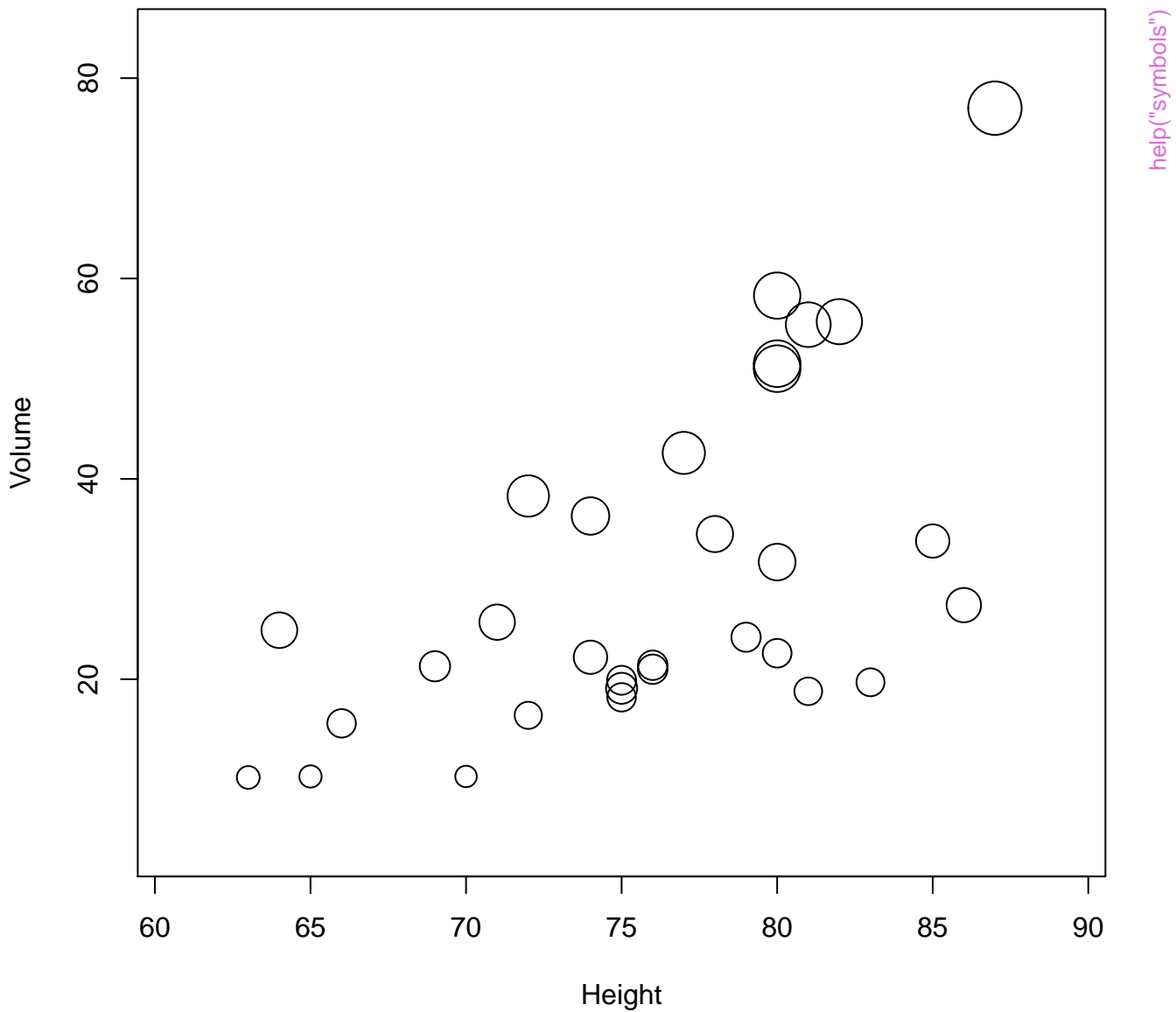




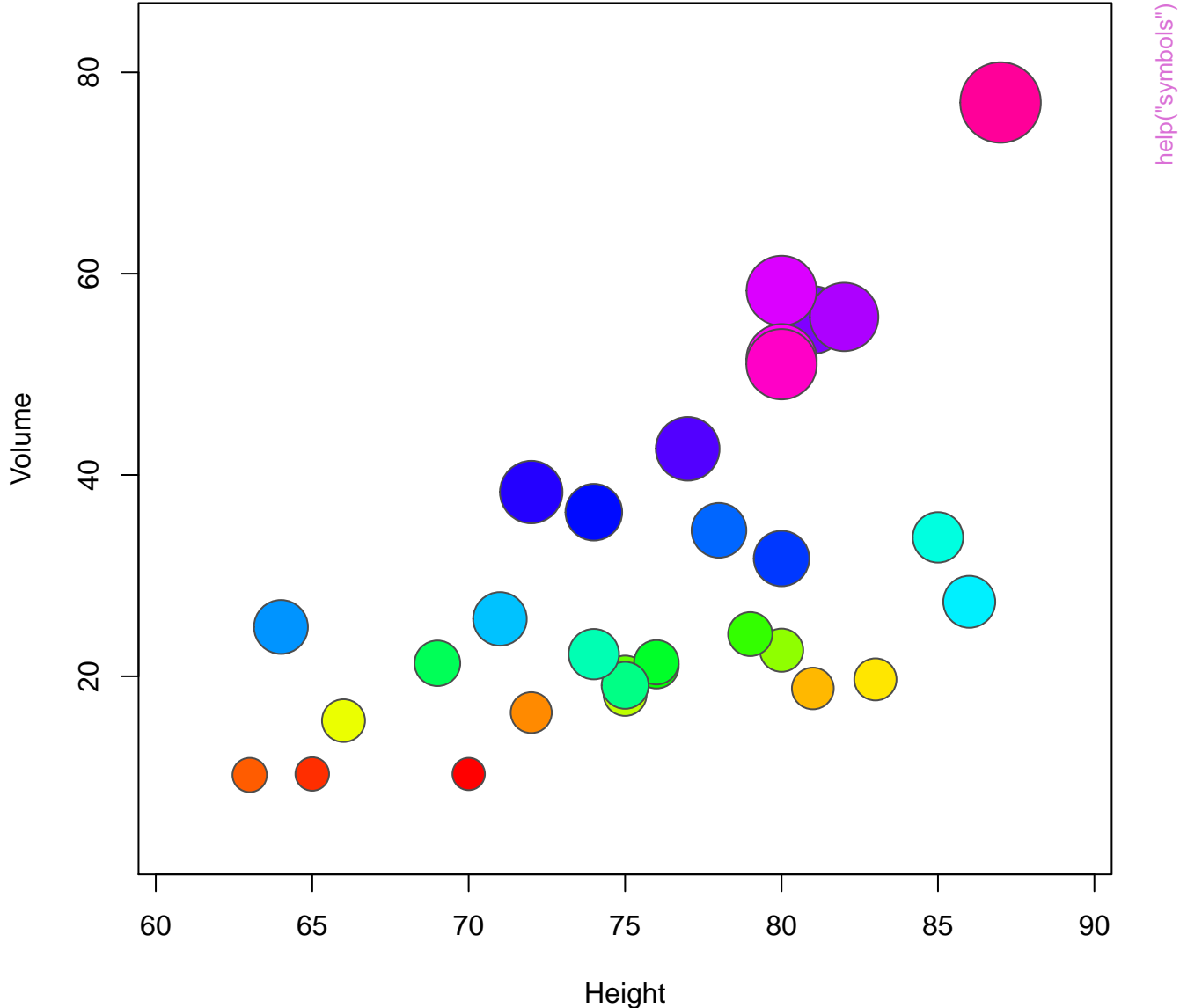




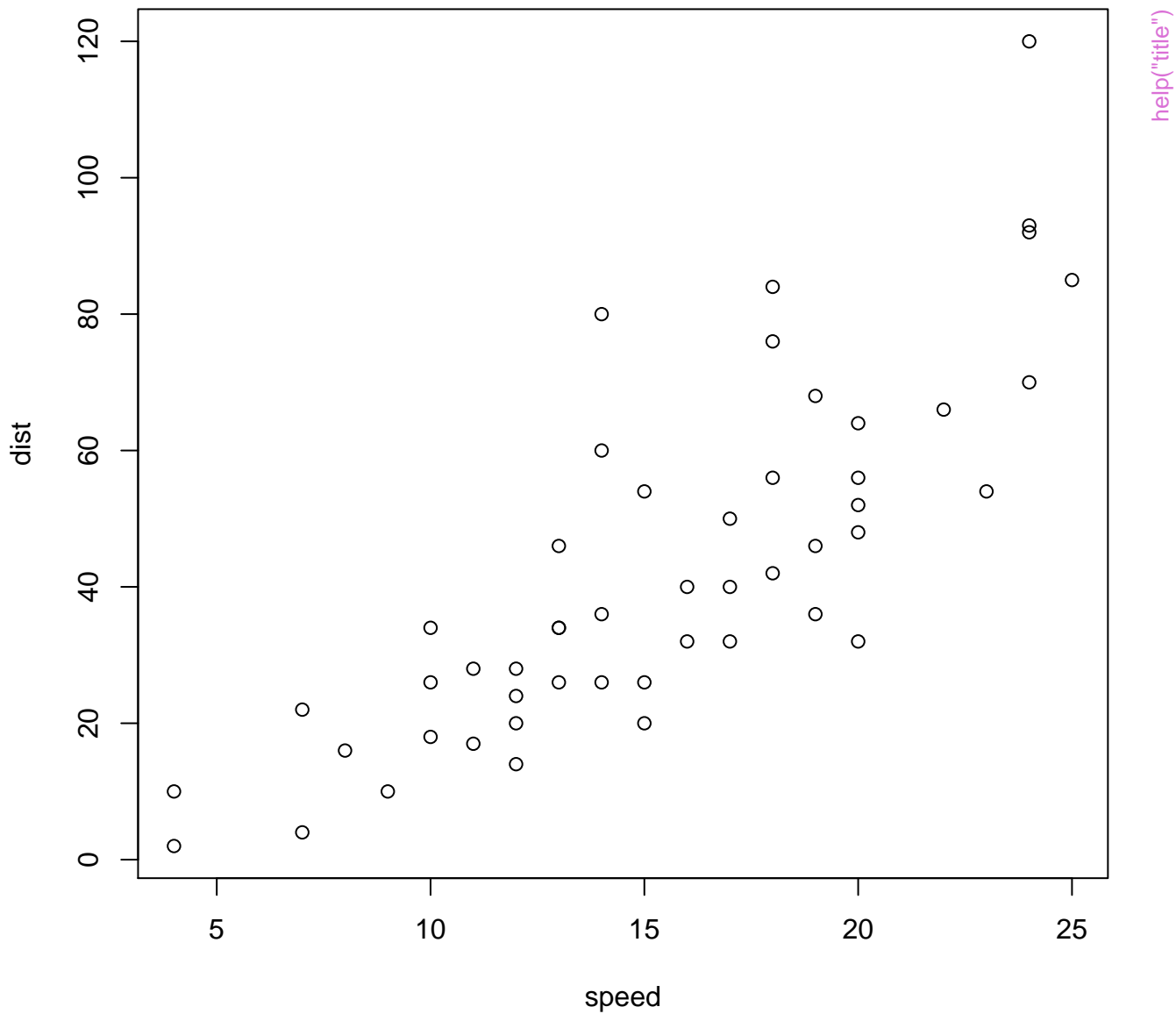
# Trees' Girth



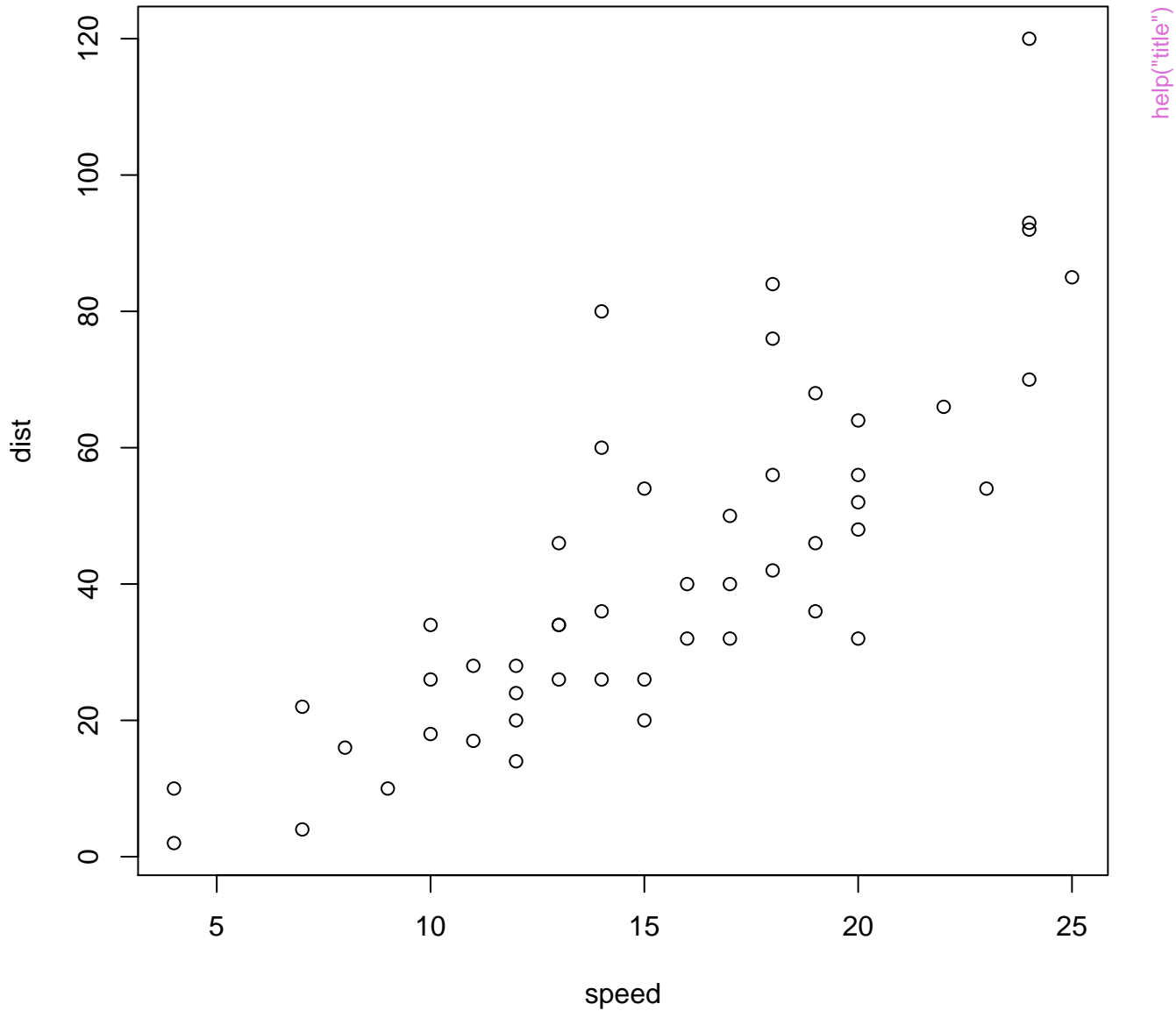
**symbols(\*, circles = Girth/16, bg = 1:N)**



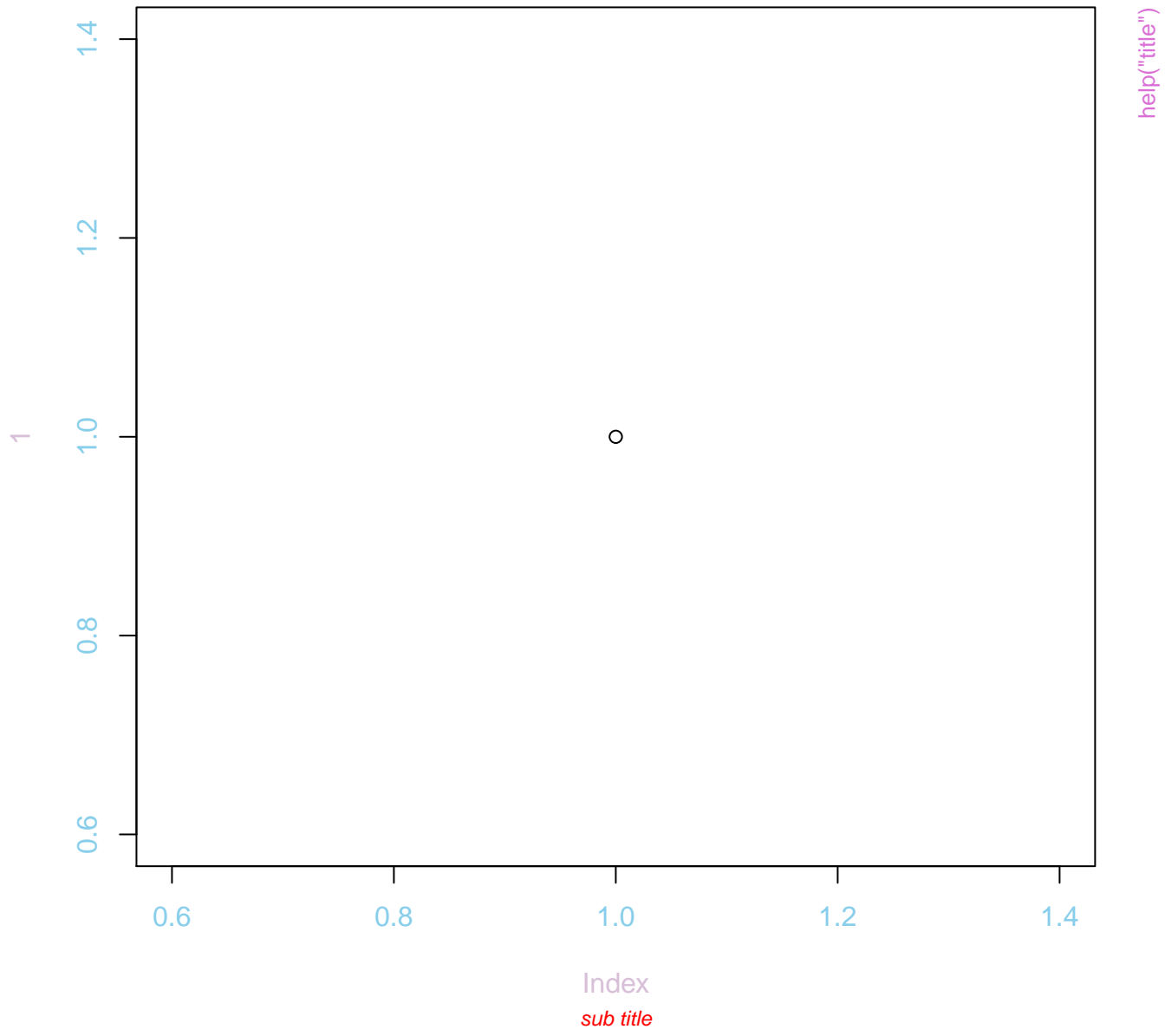
# Stopping Distance versus Speed



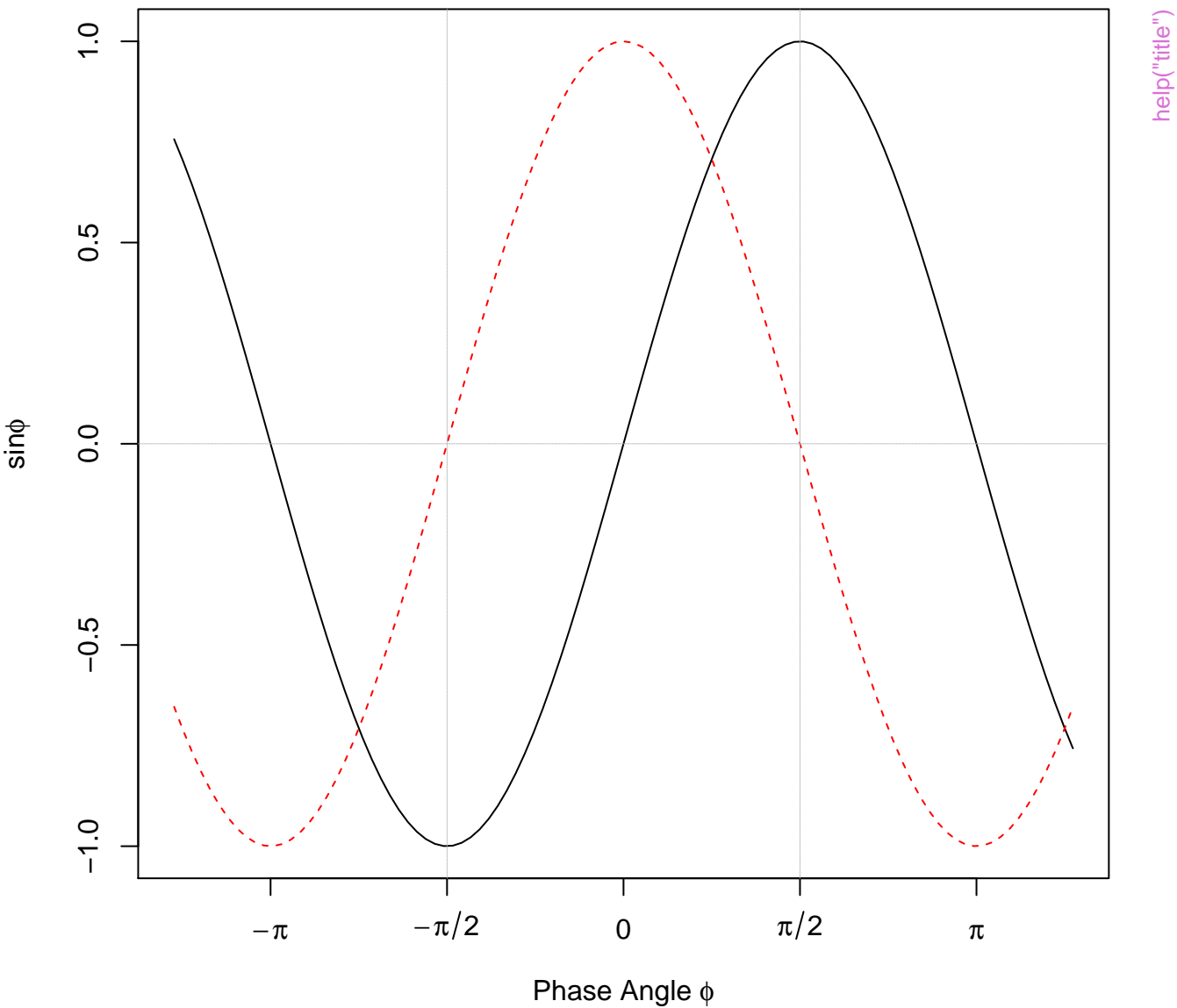
# *Stopping Distance versus Speed*



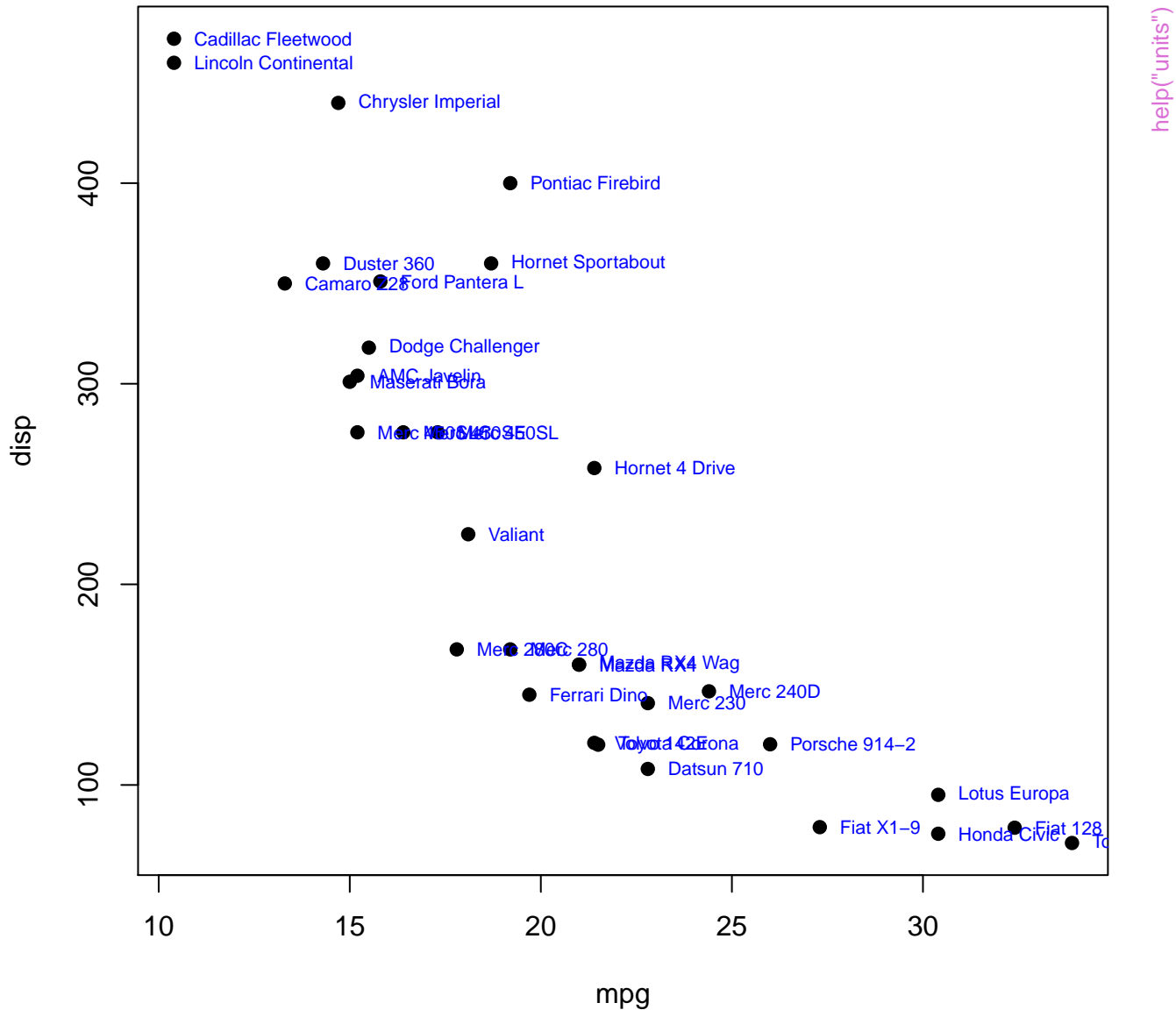
# ***Main Title***



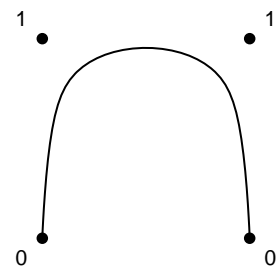
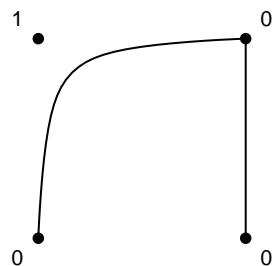
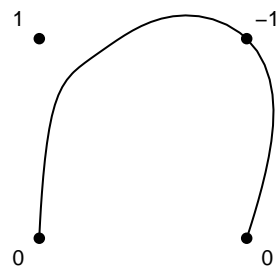
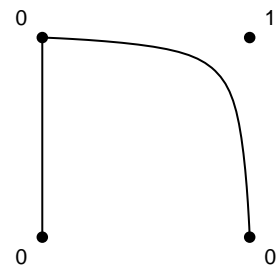
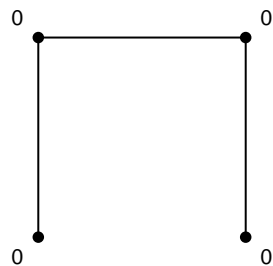
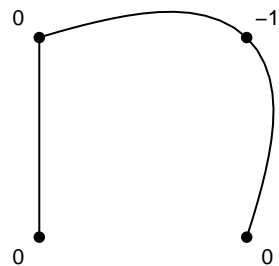
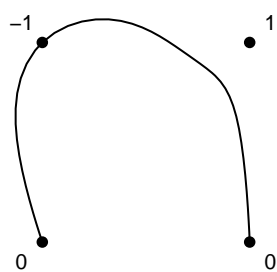
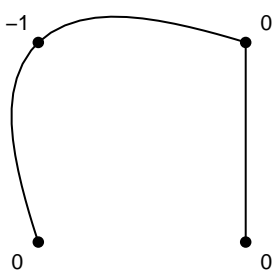
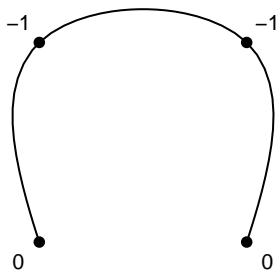
$\sin\phi$  and  $\cos\phi$



# Motor Trend Cars



# Open X-splines





## Closed X-splines

