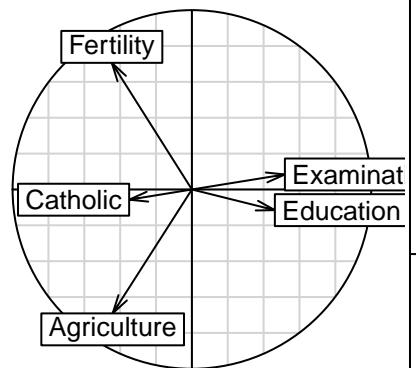
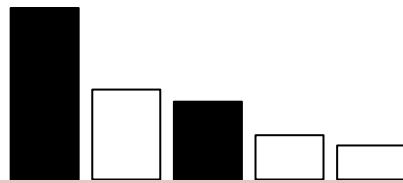


PCA 5 vars

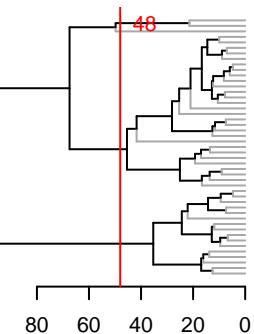
princomp(x = data, cor = cor)



(1–3) 60%

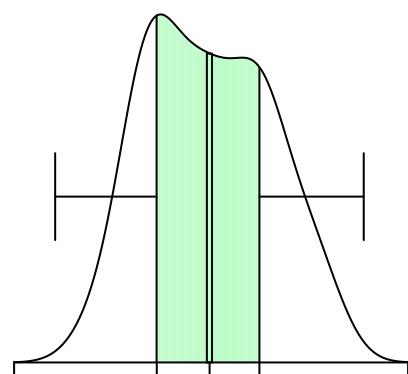
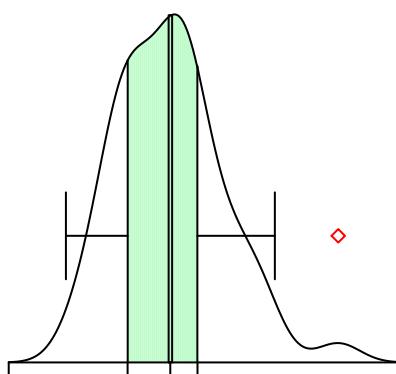


Clustering 4 groups



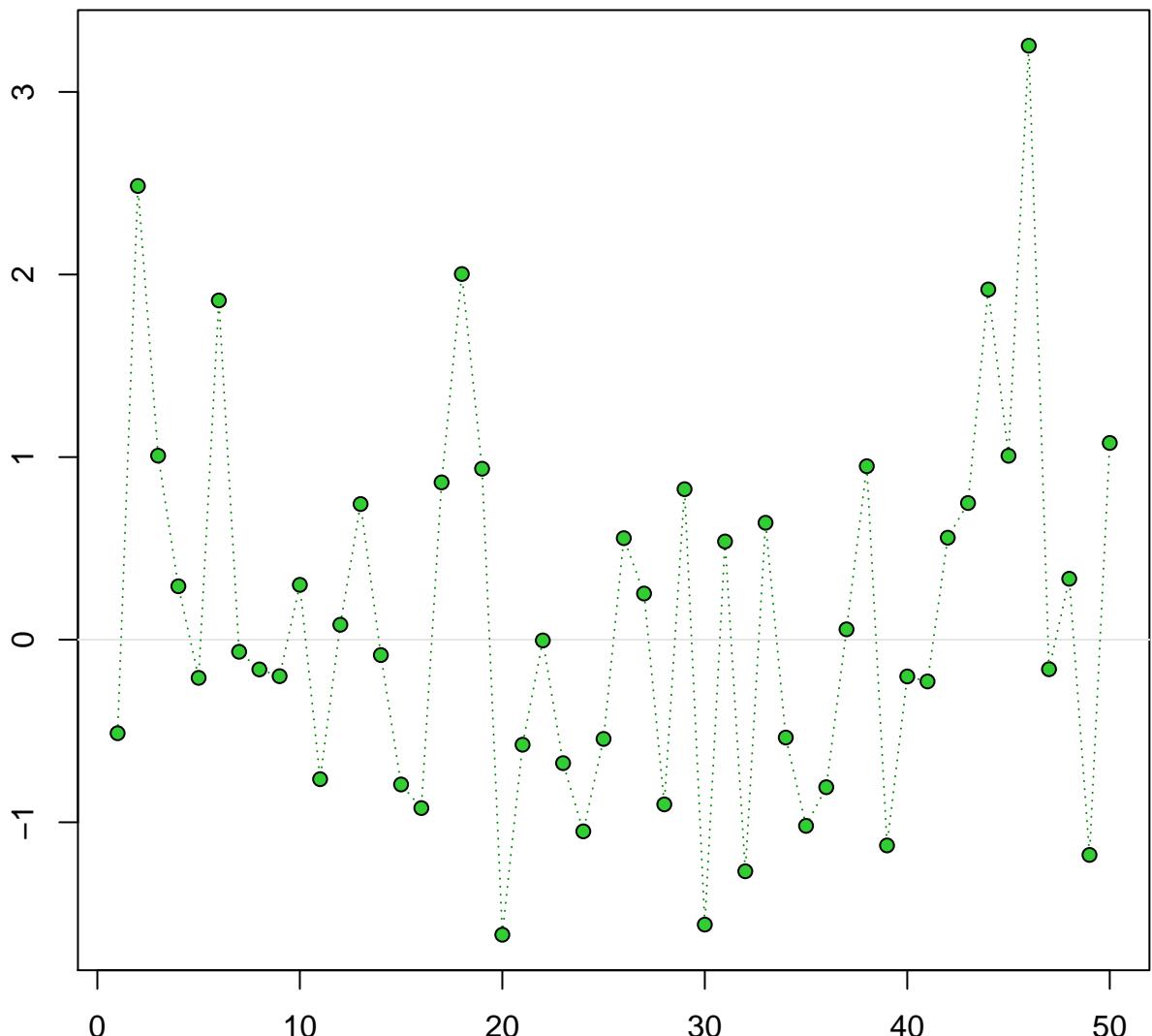
Factor 1 [41%]

Factor 3 [19%]



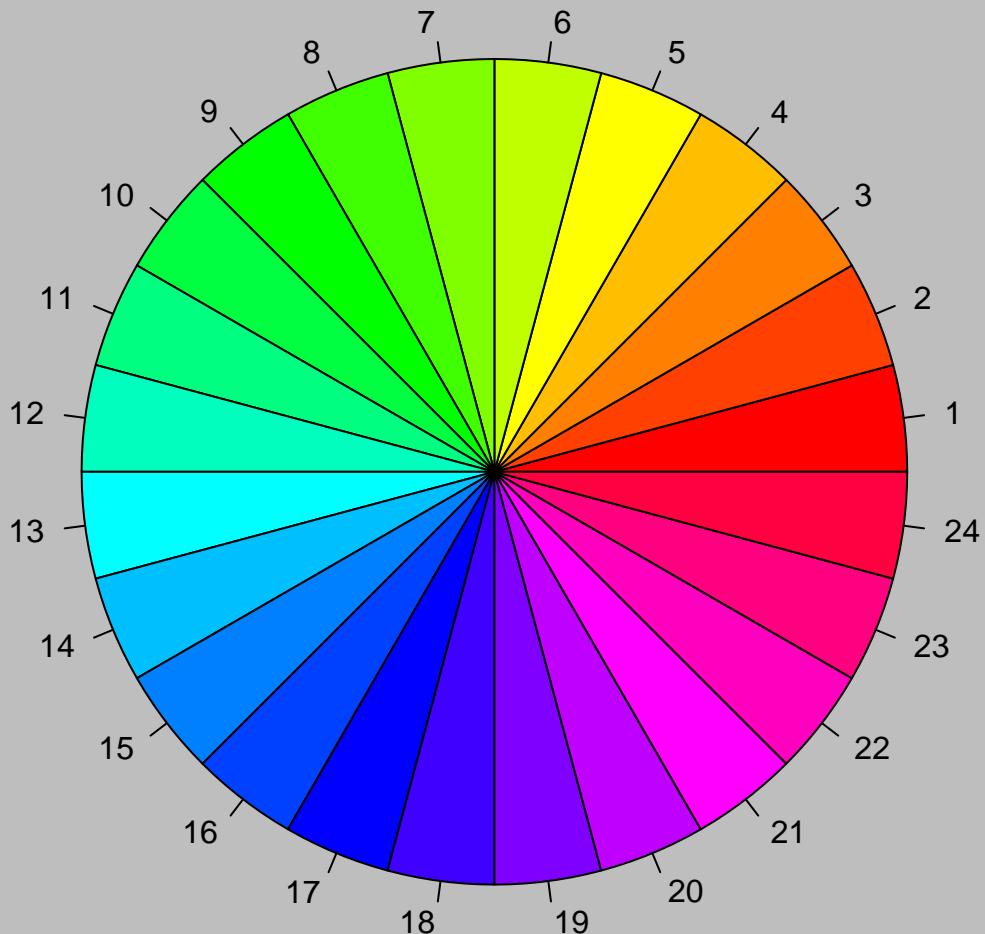
V. De Gen

Simple Use of Color In a Plot



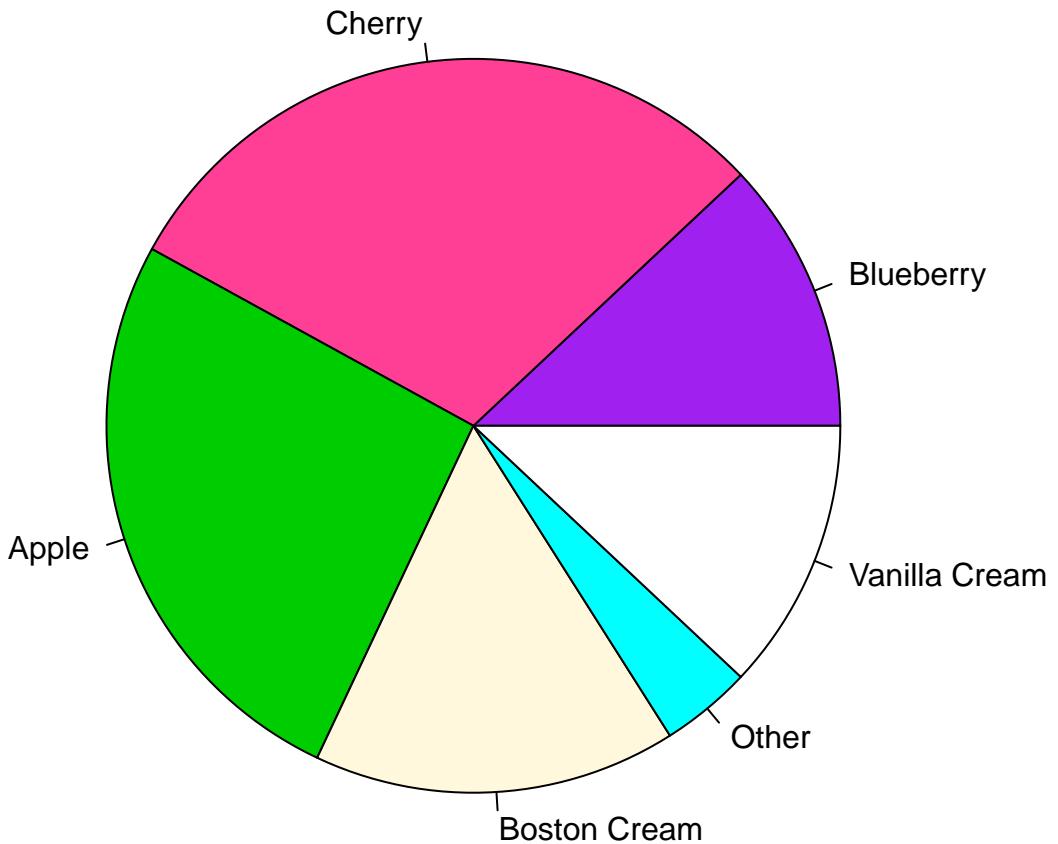
Just a Whisper of a Label

A Sample Color Wheel



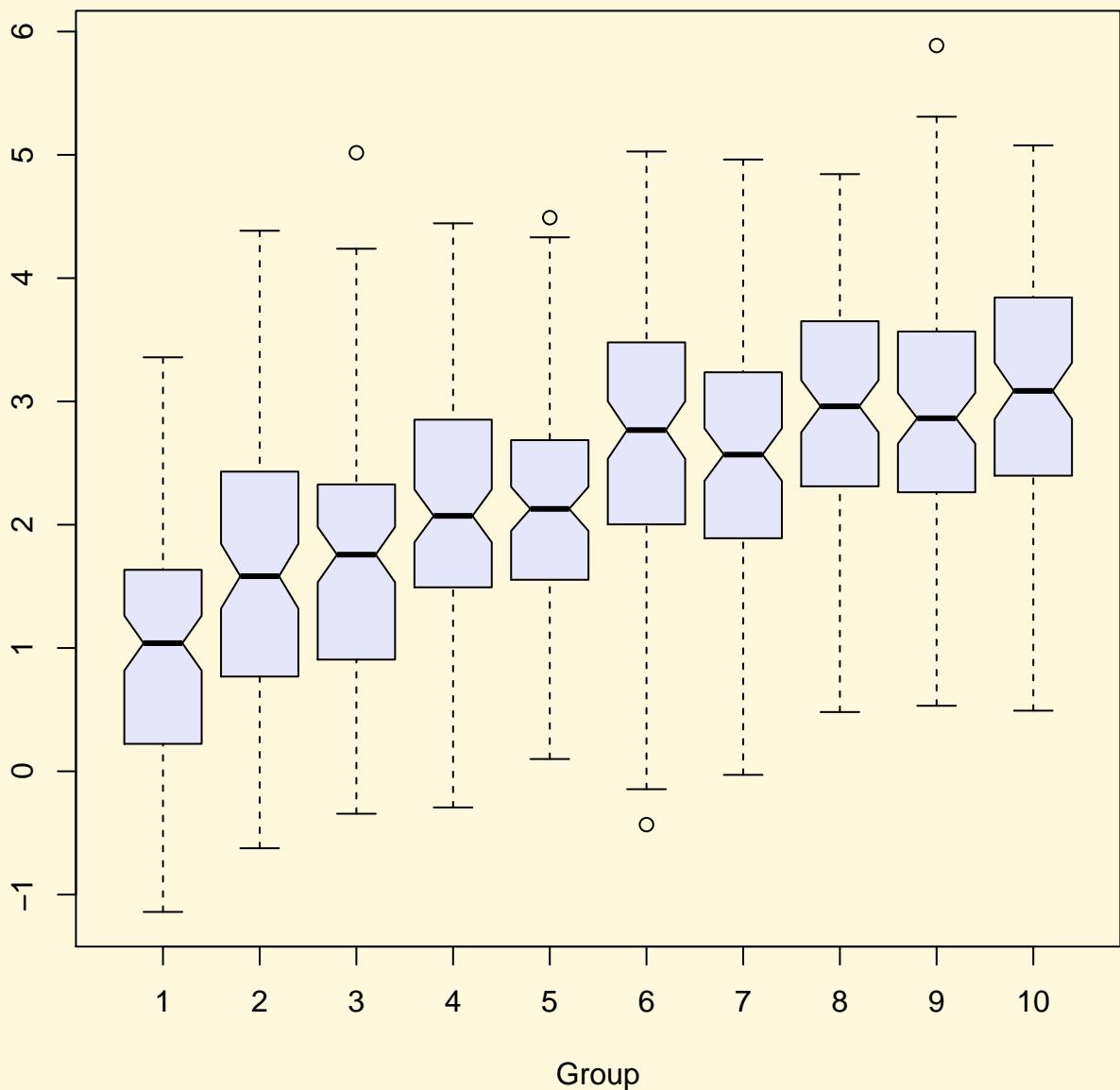
(Use this as a test of monitor linearity)

January Pie Sales

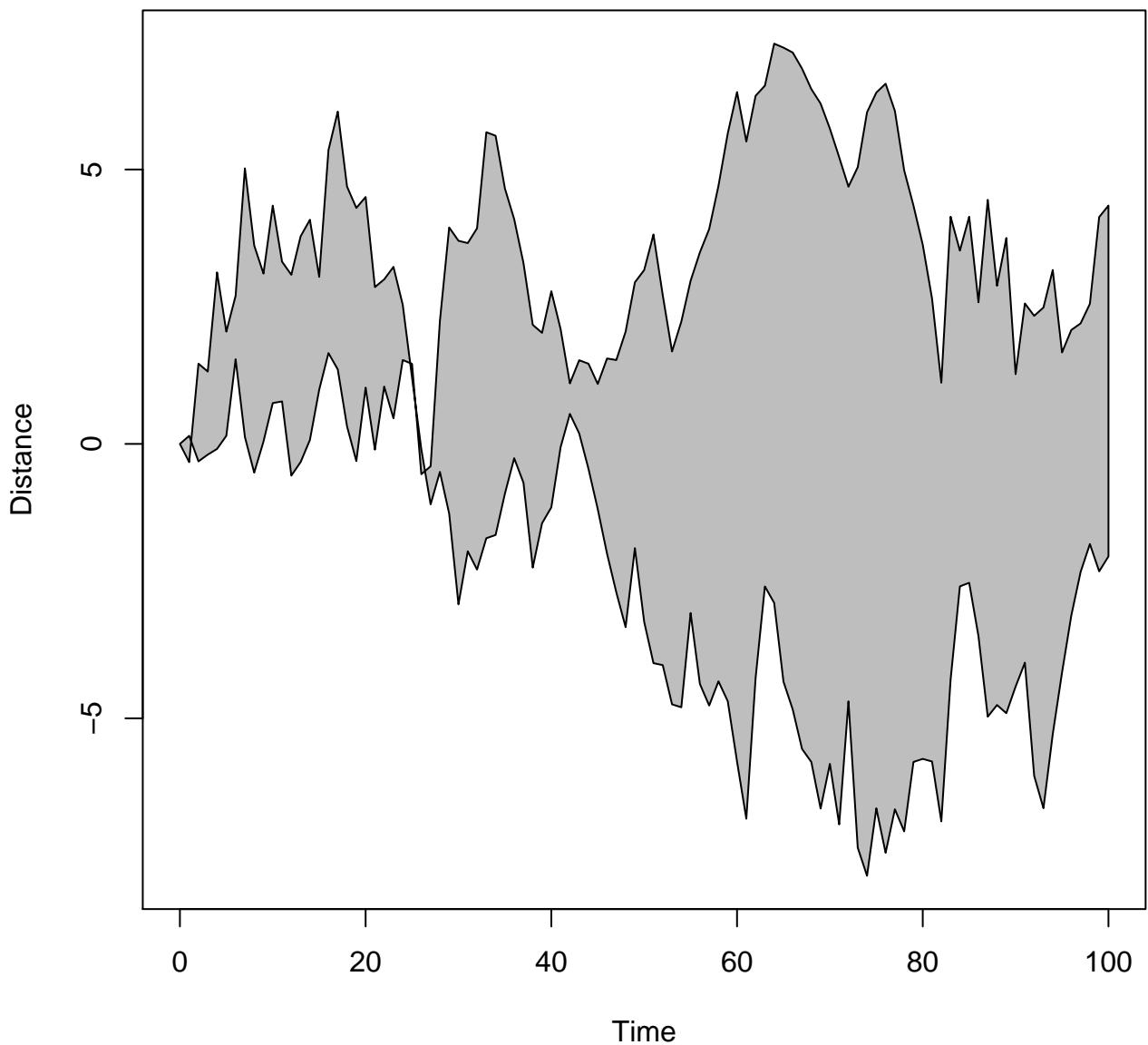


(Don't try this at home kids)

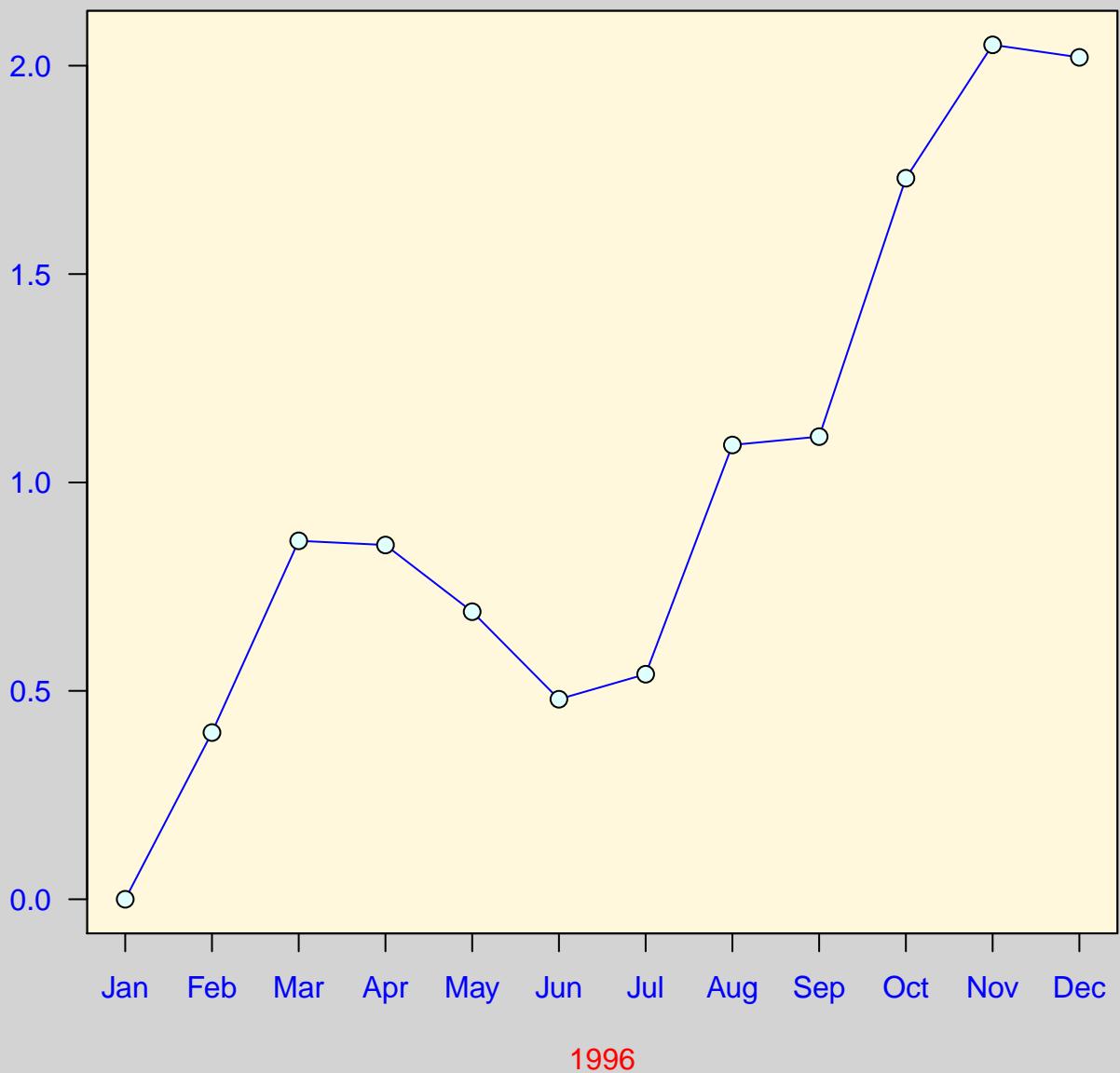
Notched Boxplots



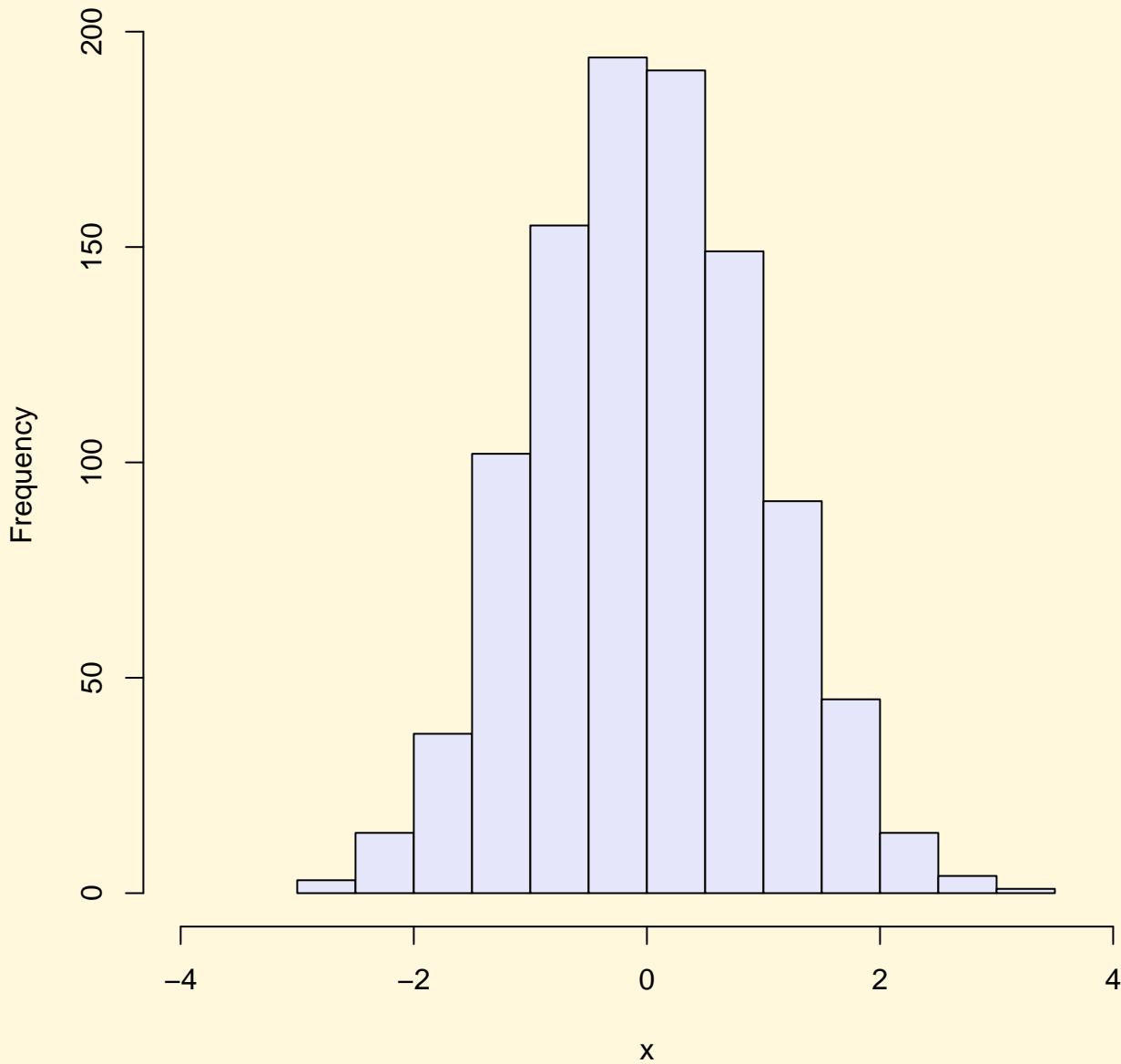
Distance Between Brownian Motions



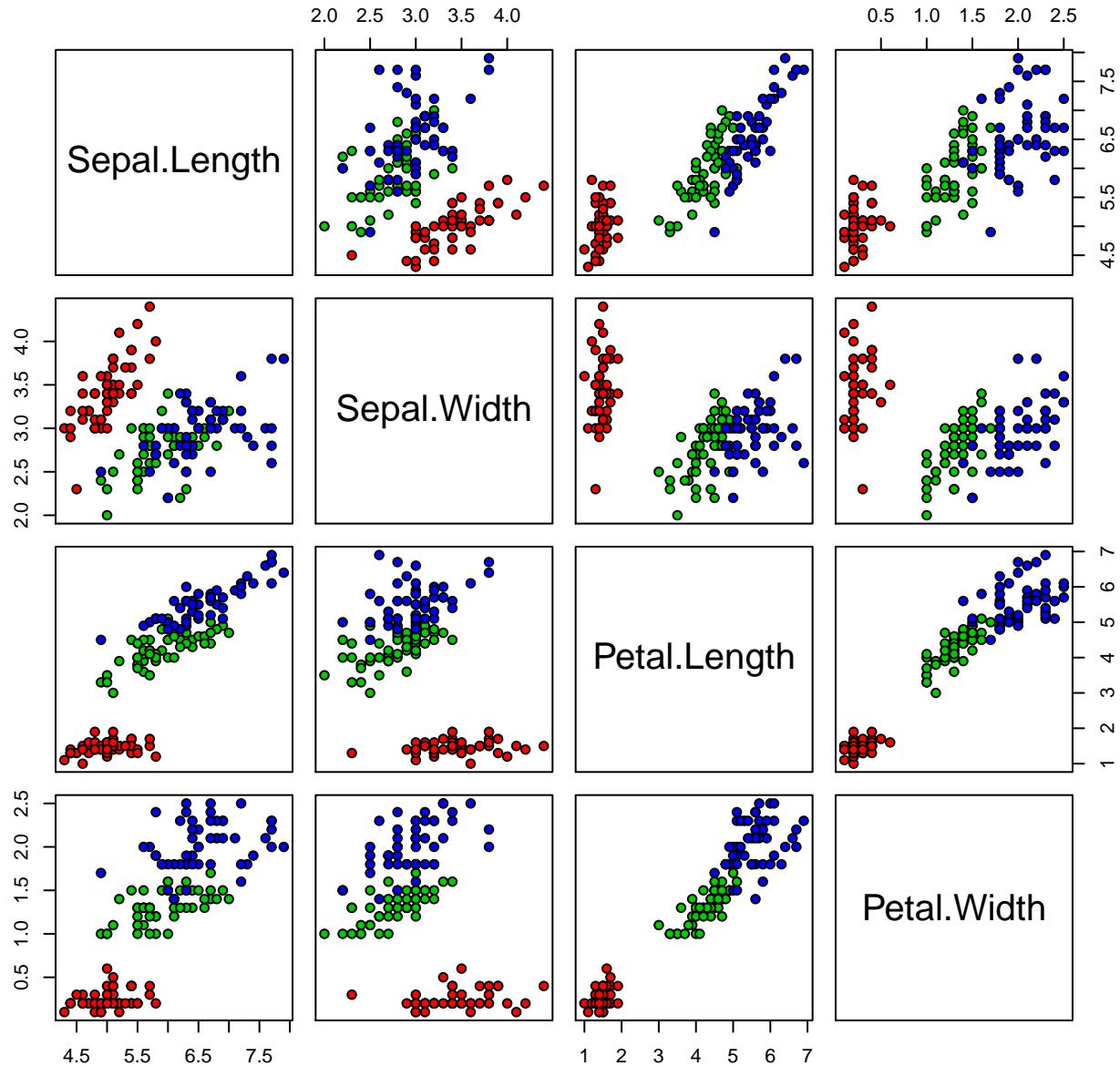
The Level of Interest in R



1000 Normal Random Variates

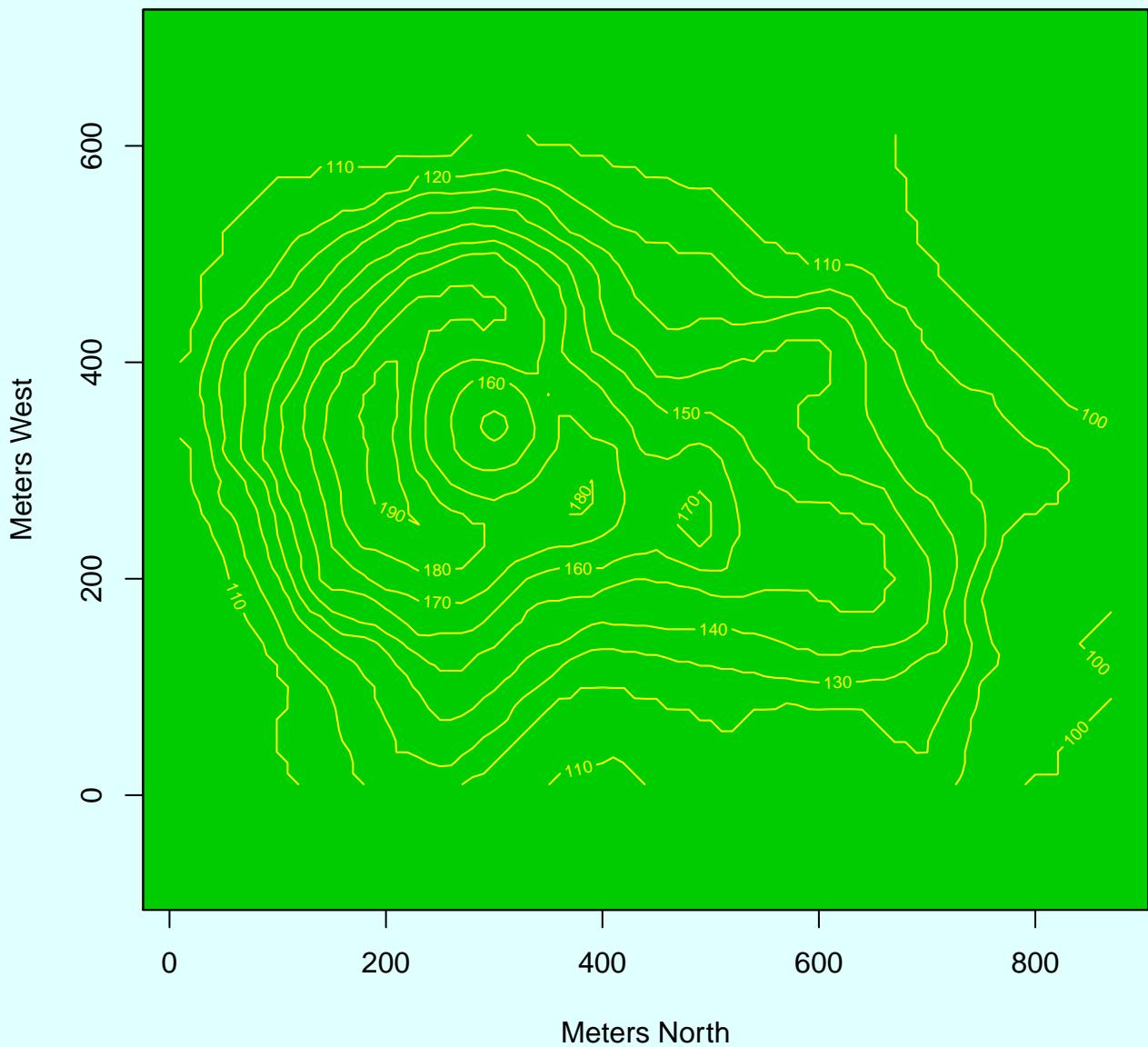


Edgar Anderson's Iris Data

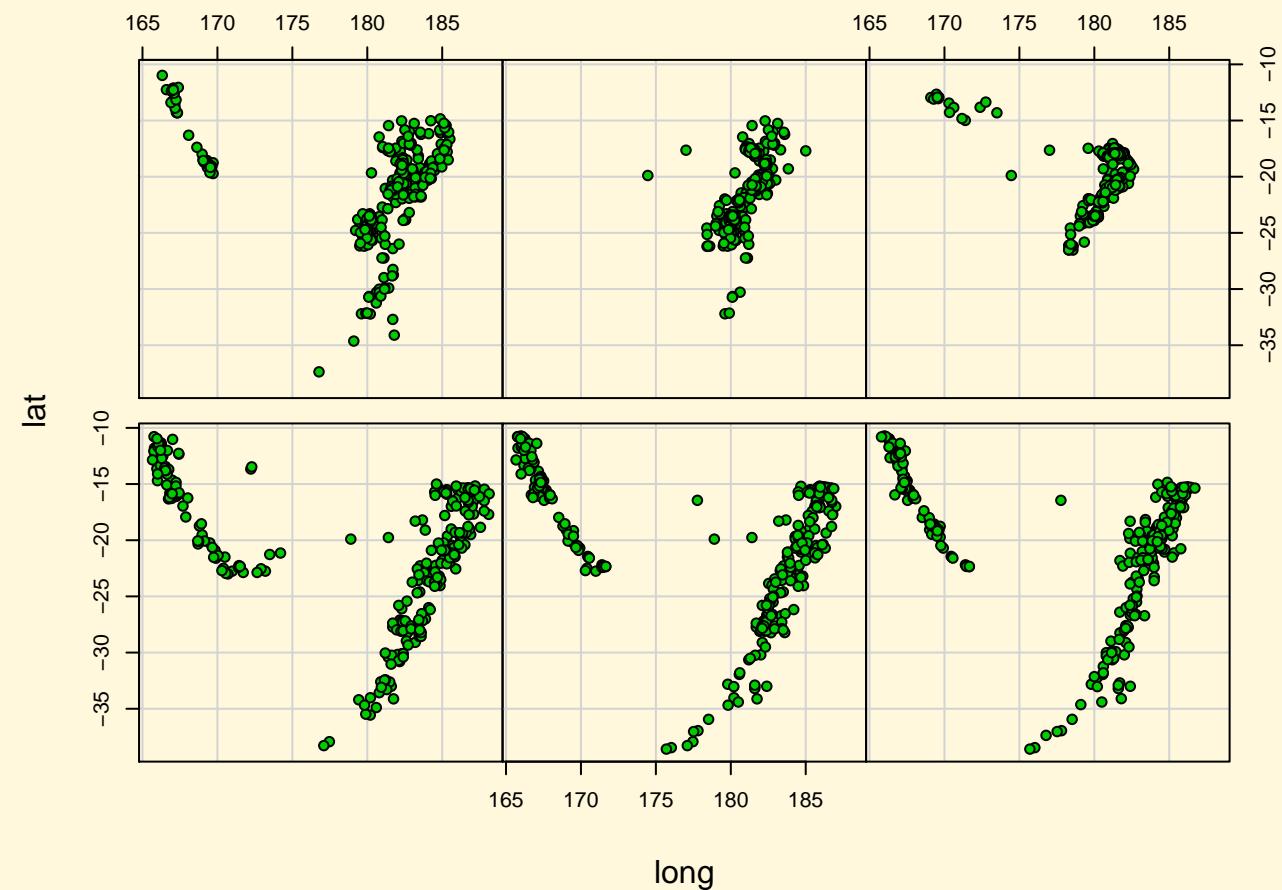
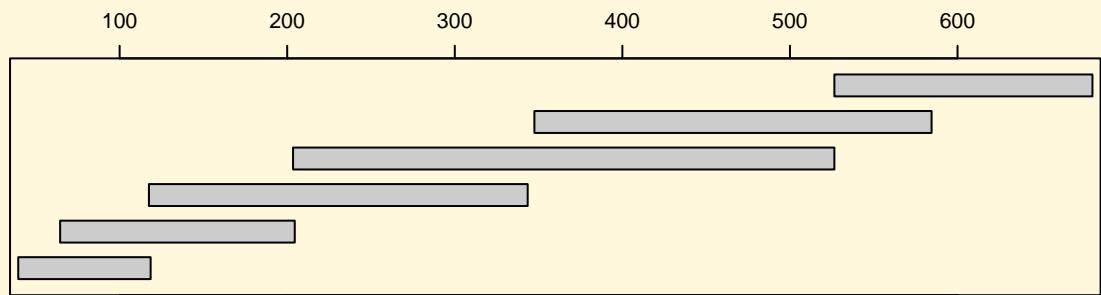


A Topographic Map of Maunga Whau

10 Meter Contour Spacing



Given : depth



Sample 'a' for each available font

serif plain	a
serif italic	<i>a</i>
serif bold	a
serif bold italic	<i>a</i>
serif cyrillic	а
serif oblique cyrillic	<i>а</i>
serif EUC	あ
sans serif plain	а
sans serif italic	<i>а</i>
sans serif bold	а
sans serif bold italic	<i>а</i>
script plain	ա
script italic	<i>ա</i>
script bold	ա
gothic english plain	¤
gothic german plain	¤
gothic italian plain	¤
serif symbol plain	¤
serif symbol italic	<i>¤</i>
serif symbol bold	¤
serif symbol bold italic	<i>¤</i>
sans serif symbol plain	¤
sans serif symbol italic	<i>¤</i>

Symbol (incl. Greek) Escape Sequences

*A	A	*a	α	*q	ψ	\->	\rightarrow	\cu	\cup	\a	\langle
*B	B	*b	β	*w	ω	\da	\downarrow	\ss	\supset	\RG	\circledR
*G	Γ	*g	γ	\+p	ϖ	\de	\circ	\ip	\cong	\CO	\circledC
*D	Δ	*d	δ	\fa	\forall	\+-	\pm	\n<	$\not\subset$	\TM	\circledT
*E	E	*e	ε	\te	\exists	\sd	$"$	\SB	\subset	\SU	\sum
*Z	Z	*z	ξ	\st	\ni	\>=	\geq	\ib	\subseteq	\lc	$[$
*Y	H	*y	η	**	$*$	\mu	\times	\mo	\in	\lf	$ $
*H	Θ	*h	θ	\=~	\cong	\pt	\propto	\nm	\notin	\ra	\rangle
*I	I	\+h	ϑ	\tf	\therefore	\pd	∂	_	\angle	\is	\int
*K	K	*i	ι	\pp	\perp	\bu	\bullet	\gr	\triangledown	\rc	$]$
*L	Λ	*k	κ	\ul	$\underline{}$	\di	\div	\rg	\circledR	\rf	$]$
*M	M	*l	λ	\rx		\!=	\neq	\co	\circledC	\~=	\cong
*N	N	*m	μ	\ap	\sim	\==	\equiv	\tm	\circledT	\pr	$'$
*C	Ξ	*n	ν	\fm	\prime	\~~	\approx	\PR	\prod	\in	∞
*O	O	*c	ξ	\<=	\leqq	\..	\dots	\sr	\checkmark	\n=	\neq
*P	Π	*o	\circ	\f/	$/$	\an	\mid	\md	\cdot	\dl	∇
*R	P	*p	π	\if	∞	\CR	\leftarrow	\no	\neg		
*S	Σ	*r	ρ	\Fn	f	\Ah	\bowtie	\AN	\wedge		
*T	T	*s	σ	\CL	\wp	\Im	\Im	\OR	\vee		
*U	Y	\ts	ς	\DI	\diamond	\Re	\Re	\hA	\Leftrightarrow		
\+U	Υ	*t	τ	\HE	\heartsuit	\wp	\wp	\IA	\Leftarrow		
*F	Φ	*u	v	\SP	\spadesuit	\c*	\otimes	\uA	\uparrow		
*X	X	*f	ϕ	\<>	\leftrightarrow	\c+	\oplus	\rA	\Rightarrow		
*Q	Ψ	\+f	φ	\<-	\leftarrow	\es	\emptyset	\dA	\downarrow		
*W	Ω	*x	χ	\ua	\uparrow	\ca	\cap	\iz	\diamond		

ISO Latin-1 Escape Sequences

\r!

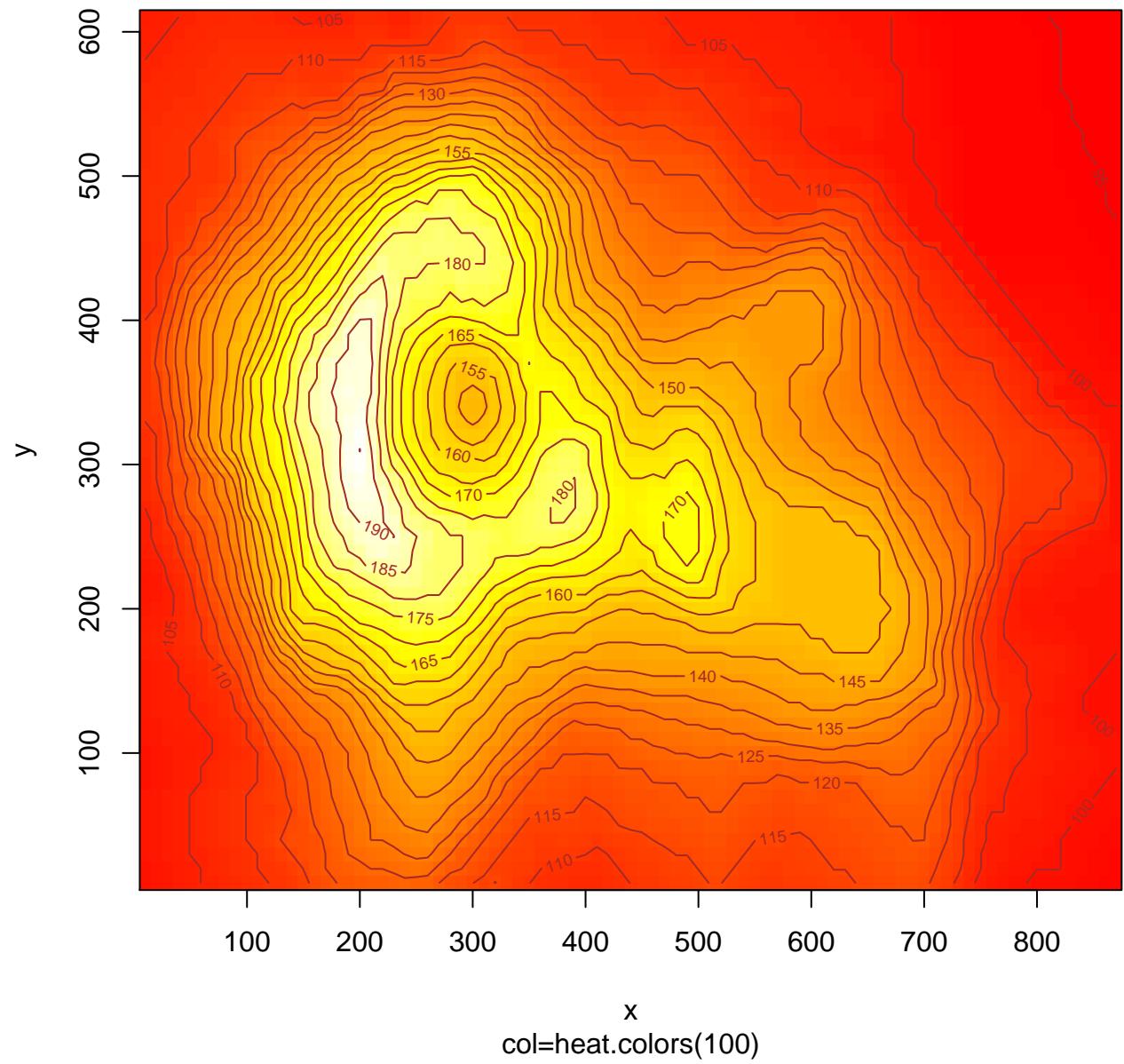
Special Escape Sequences

\AR

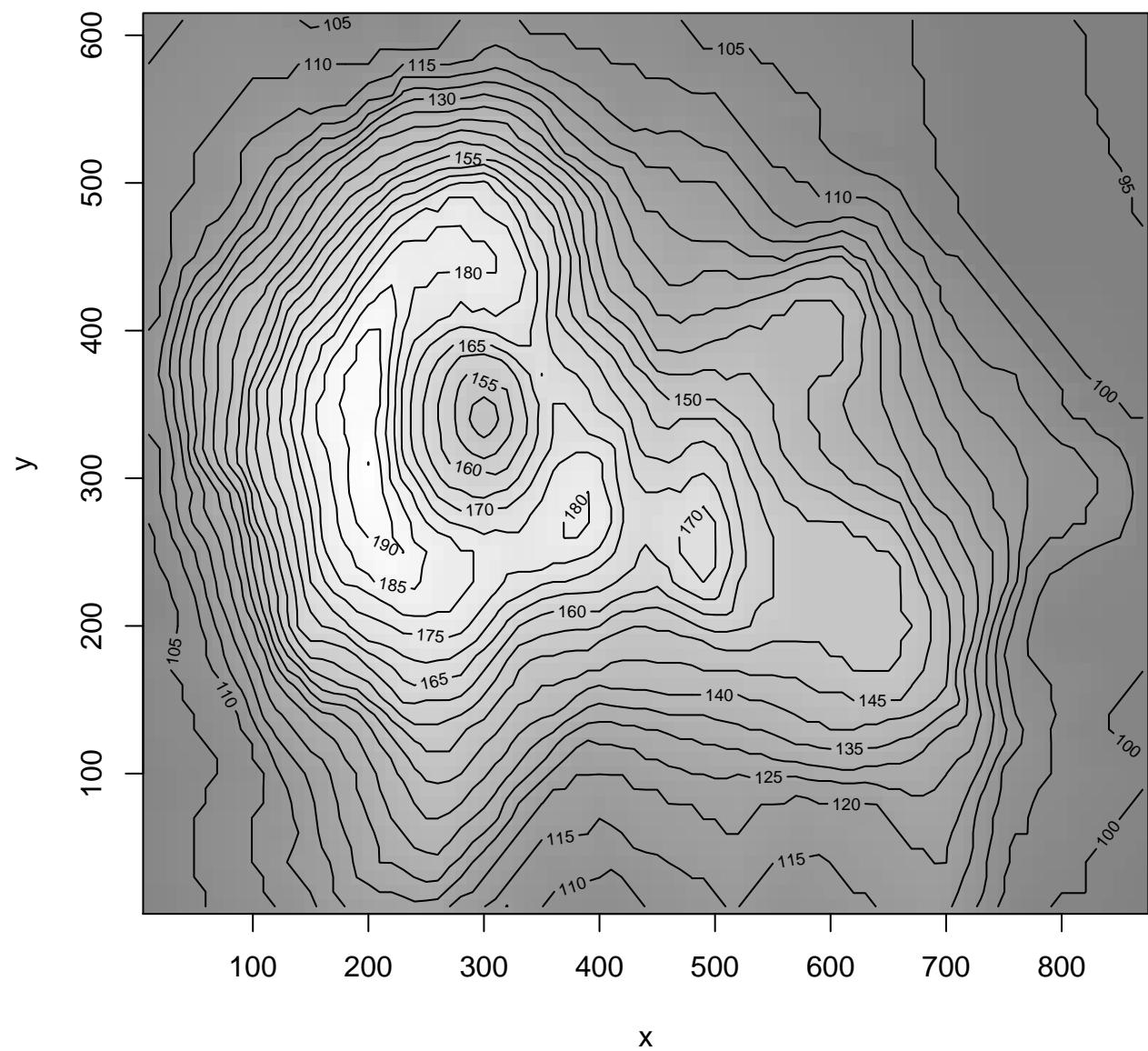
Cyrillic Octal Codes

\300

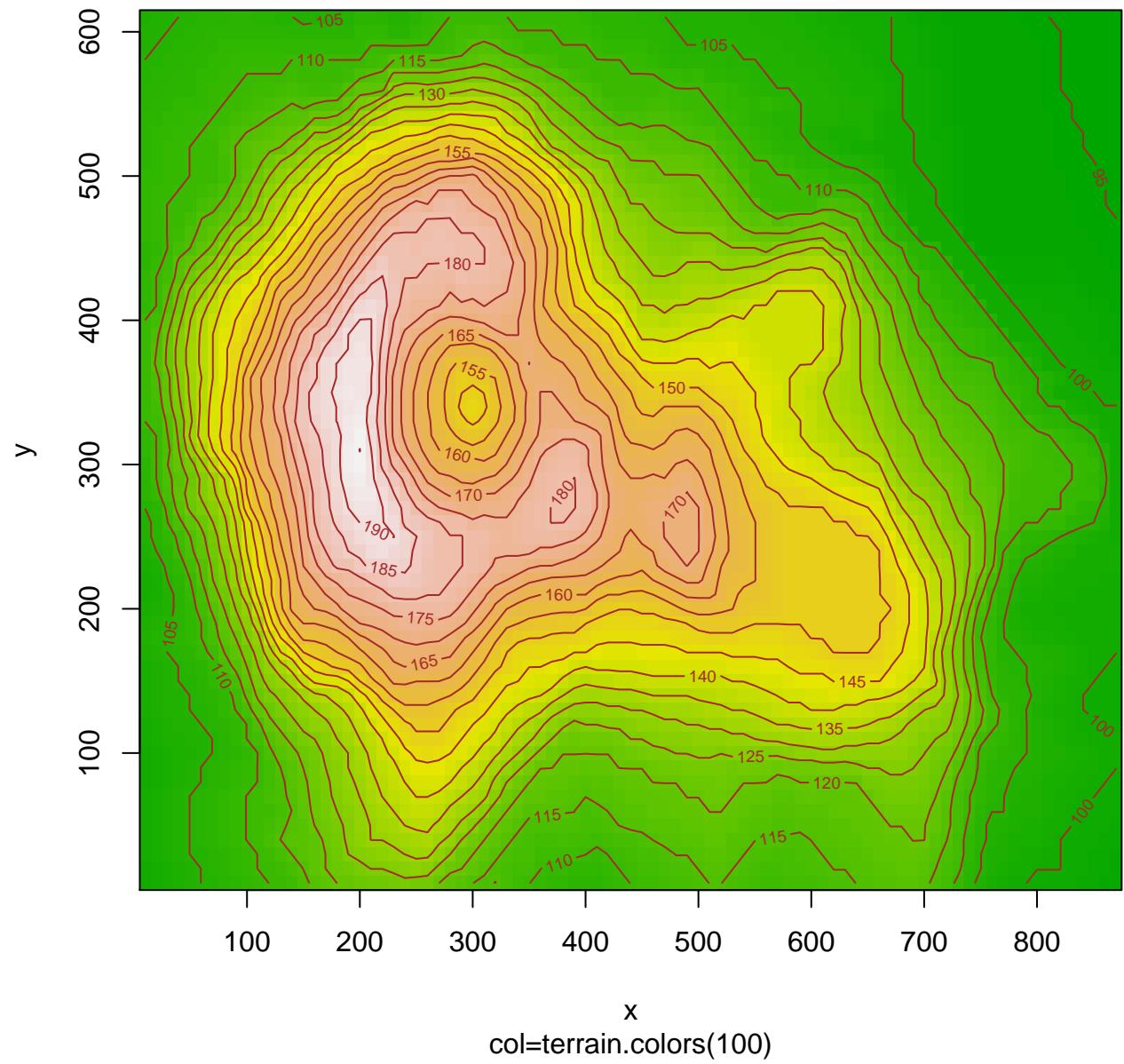
Maunga Whau Volcano



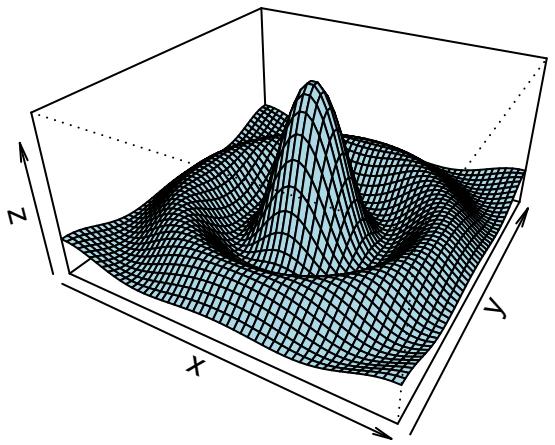
Maunga Whau Volcano
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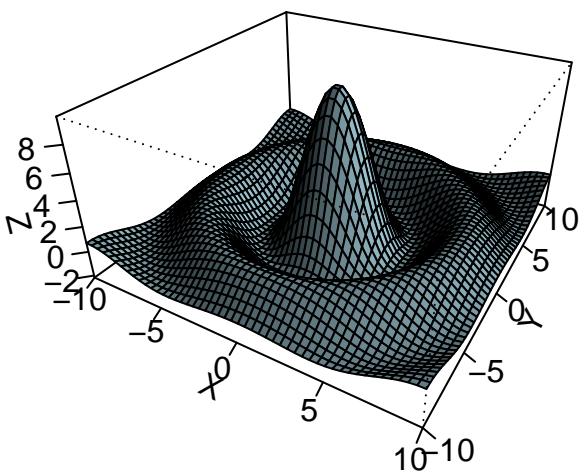
Maunga Whau Volcano

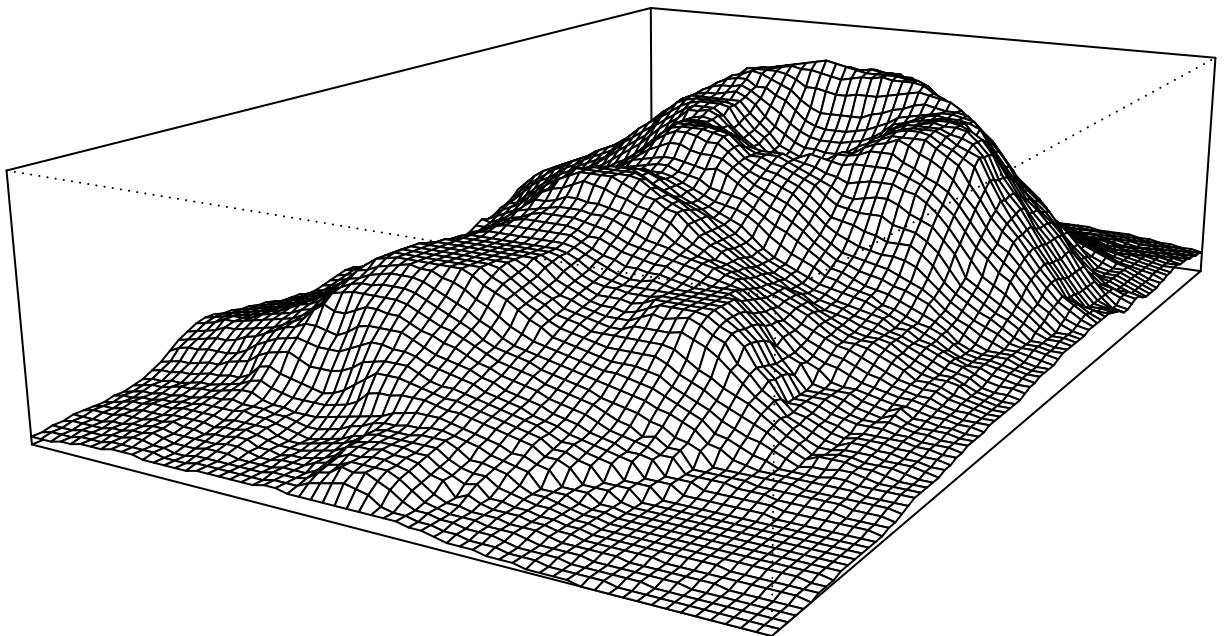


$$z = \text{Sinc}(\sqrt{x^2 + y^2})$$

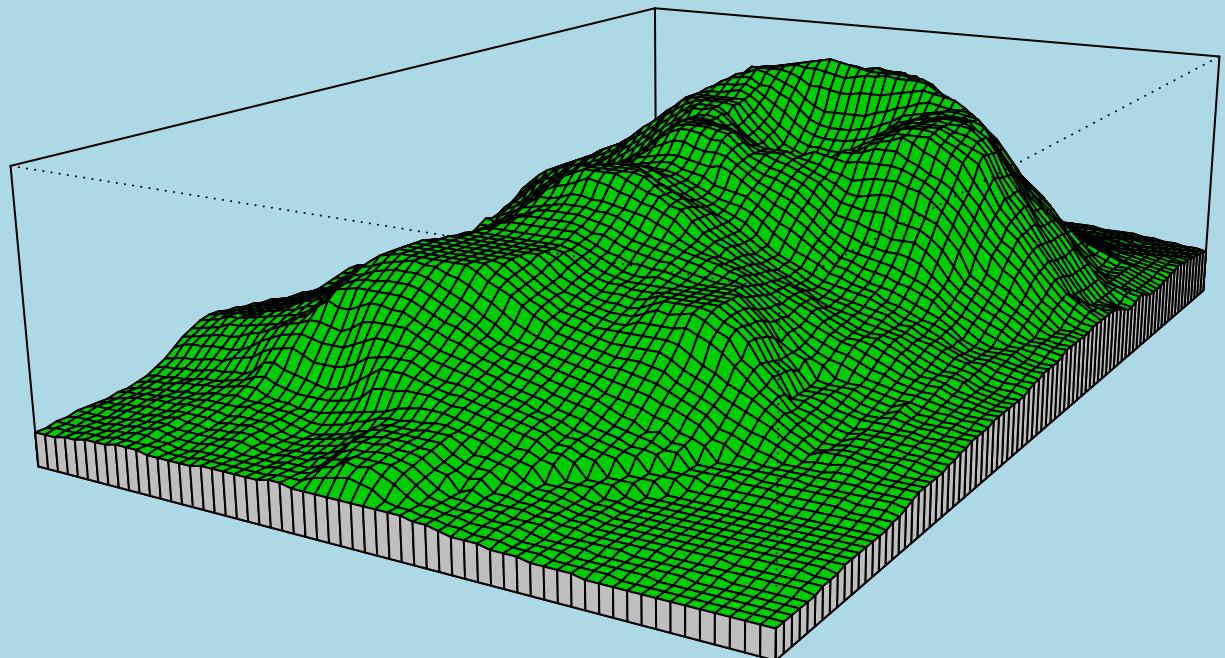


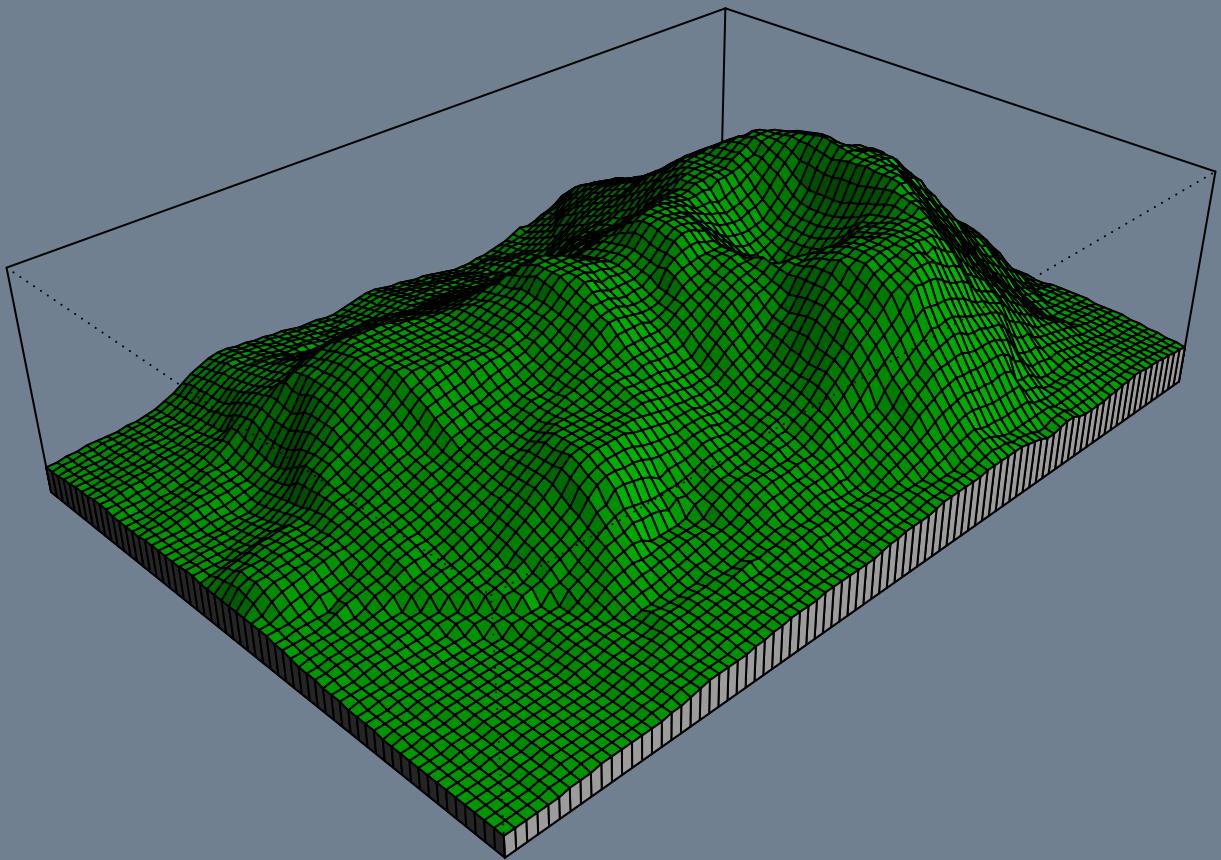
$$z = \text{Sinc}(\sqrt{x^2 + y^2})$$

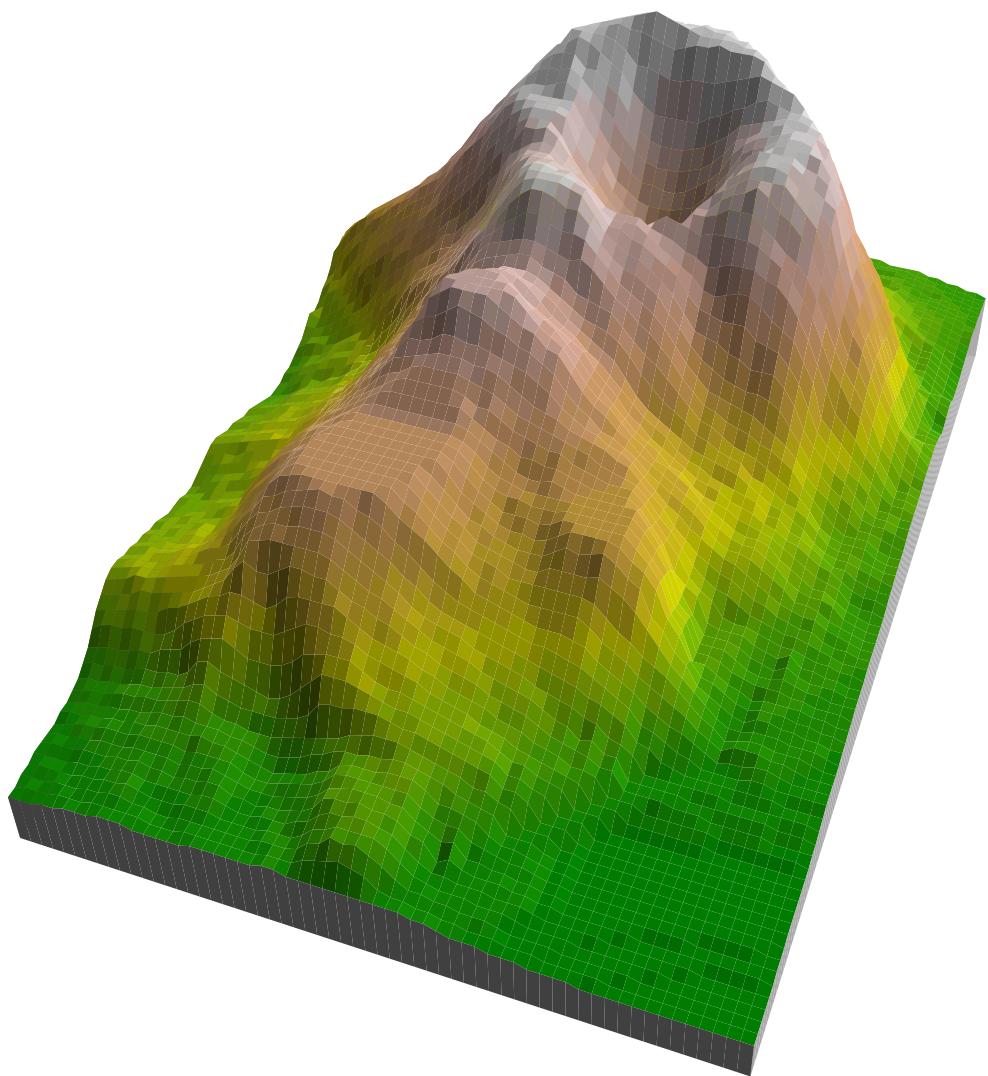




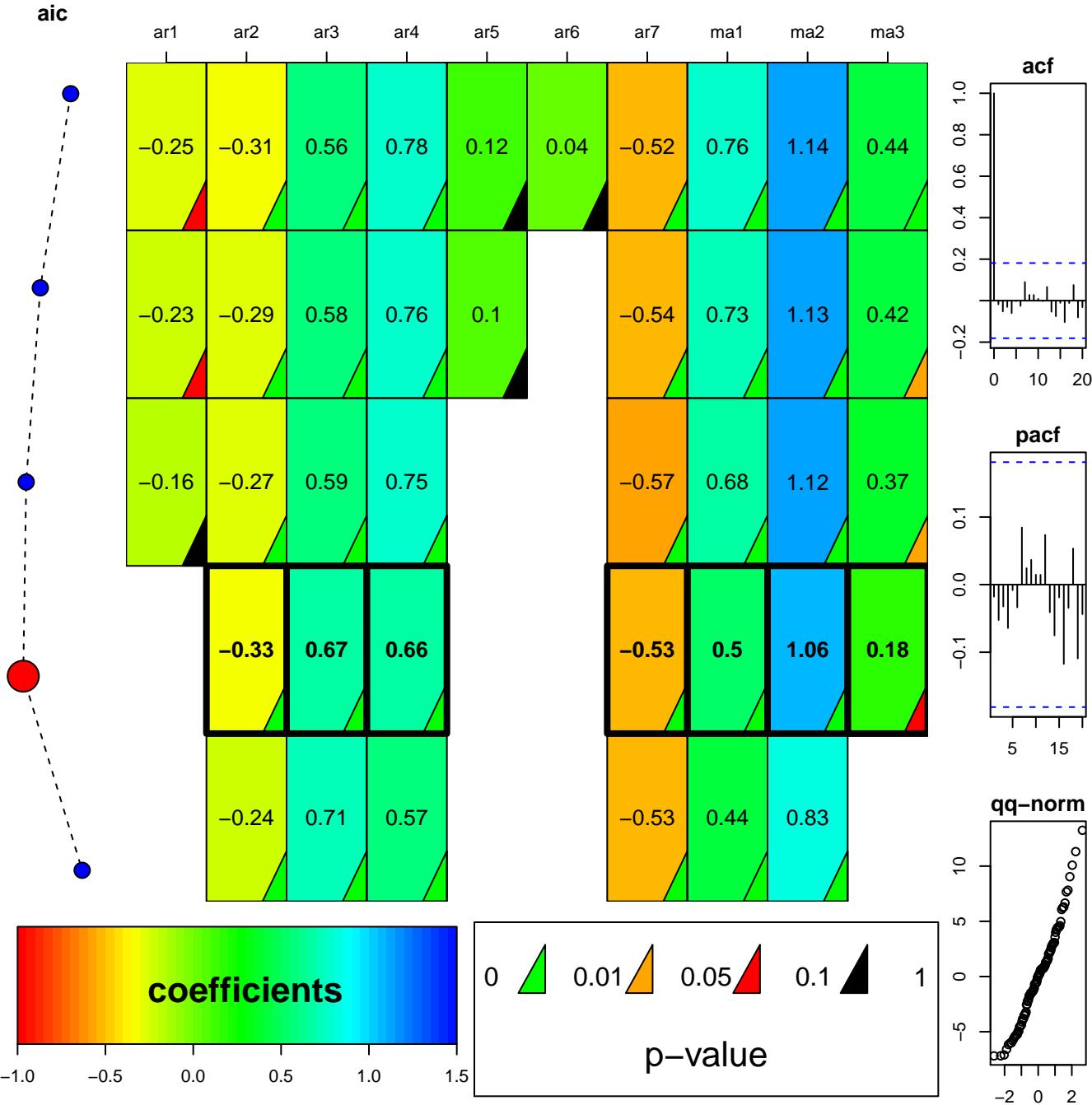
Maunga Whau
One of 50 Volcanoes in the Auckland Region.

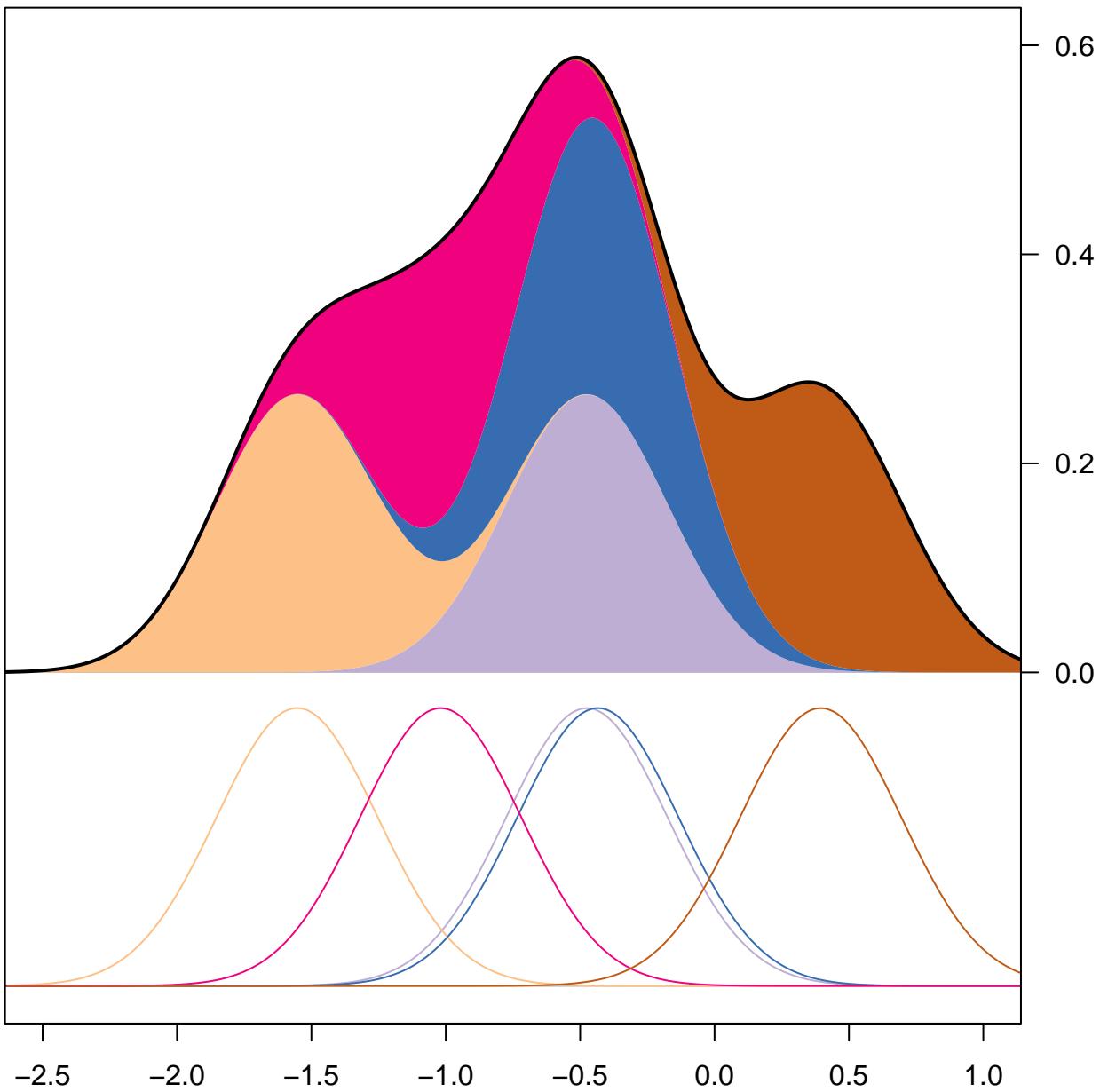


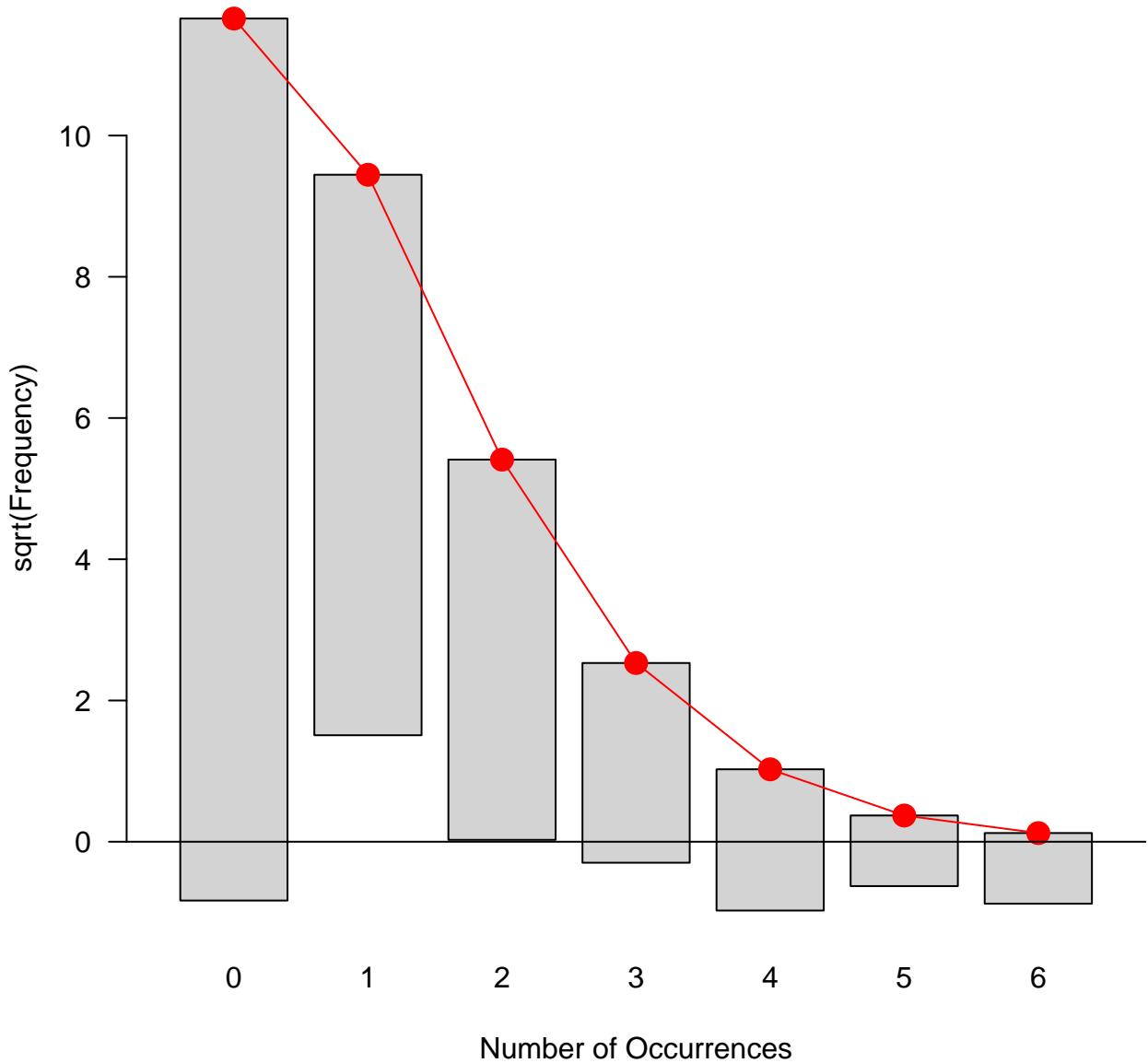




Arithmetic Operators		Radicals	
$x + y$	$x+y$	$\text{sqrt}(x)$	\sqrt{x}
$x - y$	$x-y$	$\text{sqrt}(x, y)$	$\sqrt[3]{x}$
Relations		Relations	
x/y	x/y	$x == y$	$x = y$
$x \%+-% y$	$x \pm y$	$x != y$	$x \neq y$
$x\%/\%y$	$x \div y$	$x < y$	$x < y$
$x \%* \% y$	$x \times y$	$x <= y$	$x \leq y$
$-x$	$-x$	$x > y$	$x > y$
$+x$	$+x$	$x >= y$	$x \geq y$
Sub/Superscripts		$x \%{\sim}{\sim} \% y$	$x \approx y$
$x[i]$	x_i	$x \%{=}{\sim} \% y$	$x \equiv y$
x^2	x^2	$x \%{==} \% y$	$x \equiv y$
Juxtaposition		$x \%{\text{prop}} \% y$	$x \propto y$
Typeface		Typeface	
$paste(x, y, z)$	xyz	$\text{plain}(x)$	x
Lists		$\text{italic}(x)$	\mathbf{x}
$list(x, y, z)$	x, y, z	$\text{bold}(x)$	\mathbf{x}
		$\text{bolditalic}(x)$	\mathbf{x}

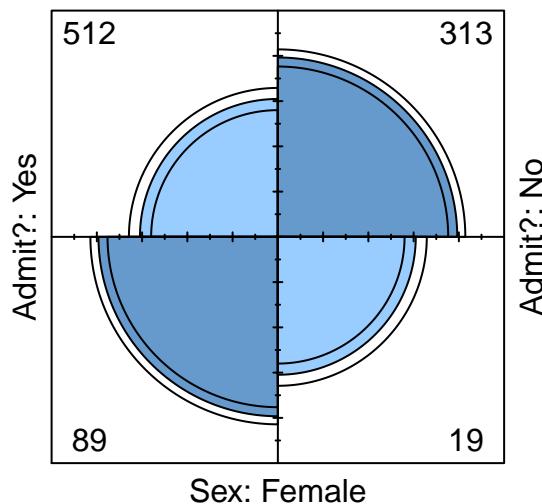






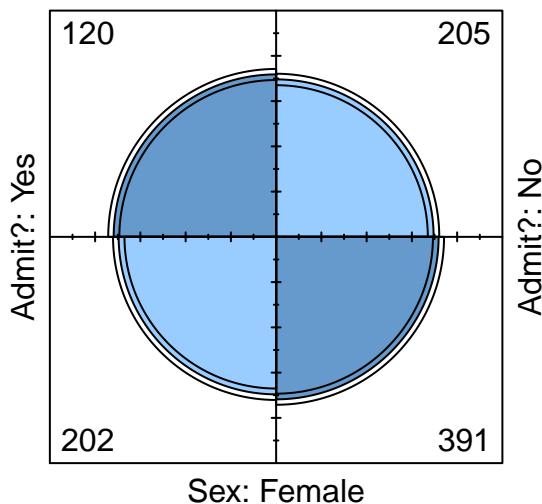
Department: A

Sex: Male



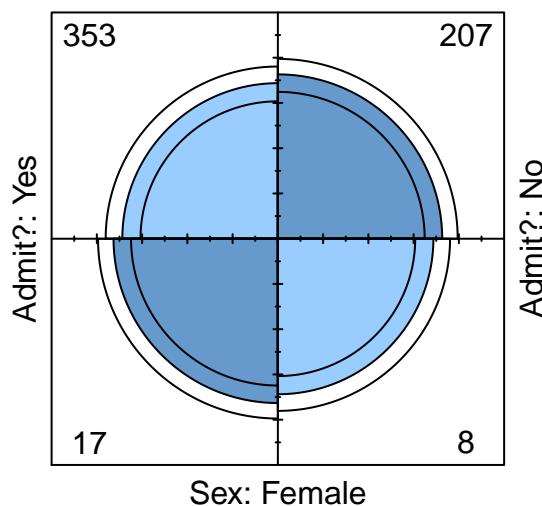
Department: C

Sex: Male



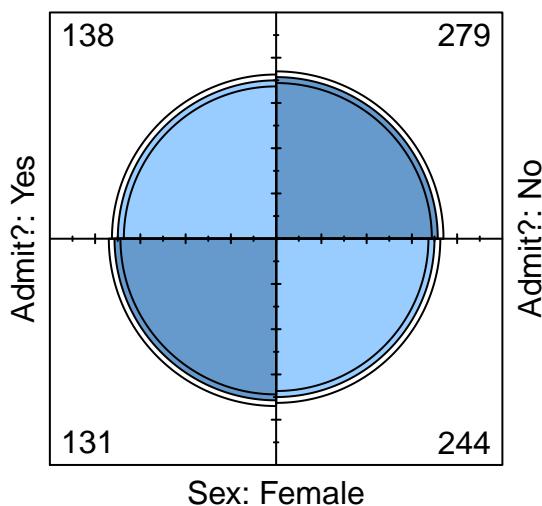
Department: B

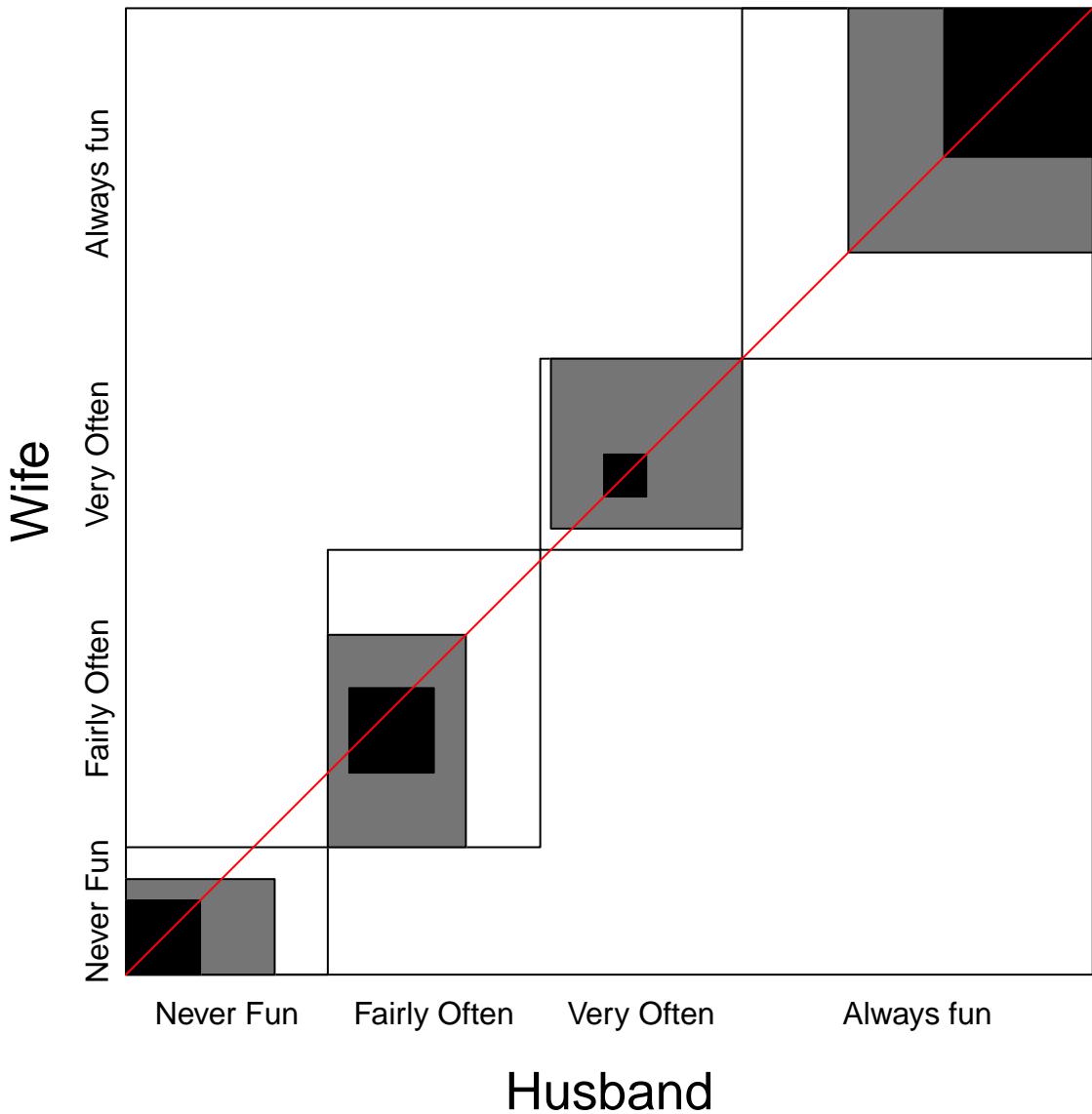
Sex: Male

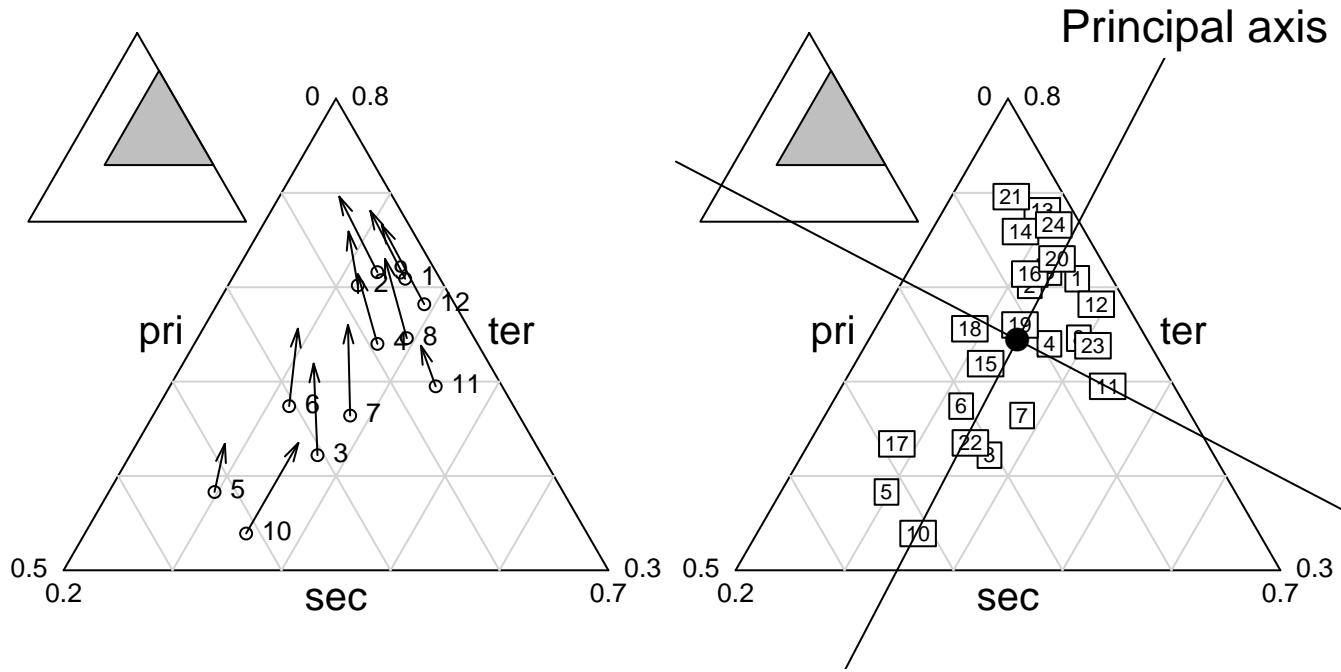
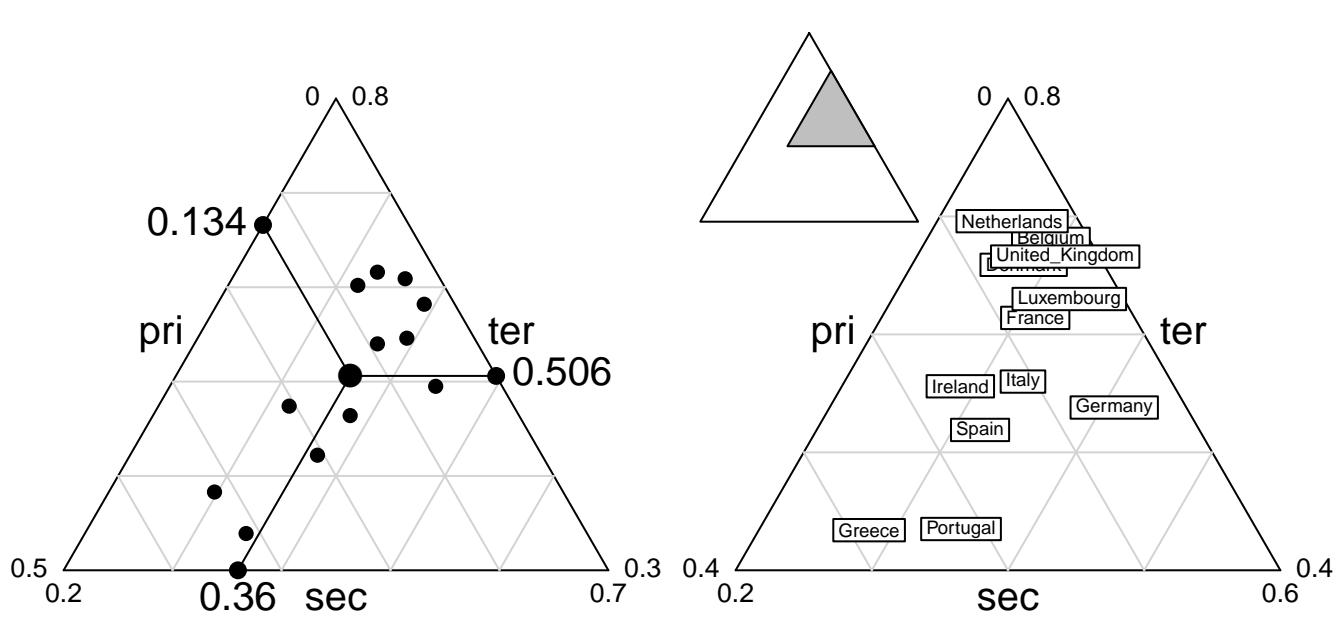


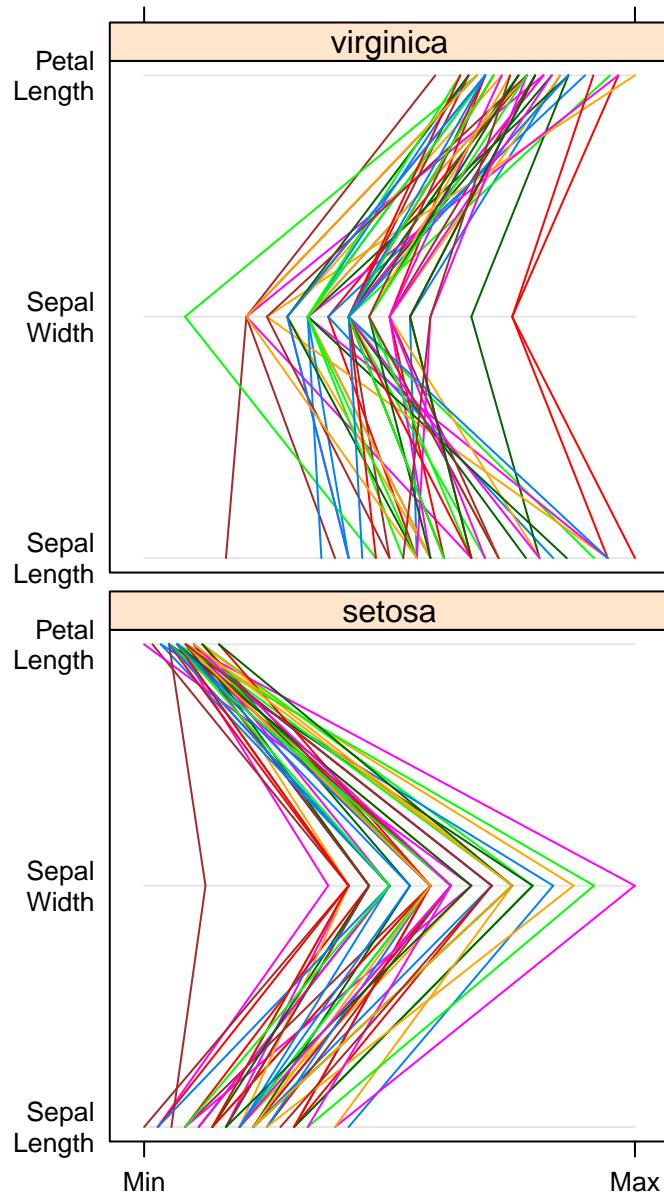
Department: D

Sex: Male



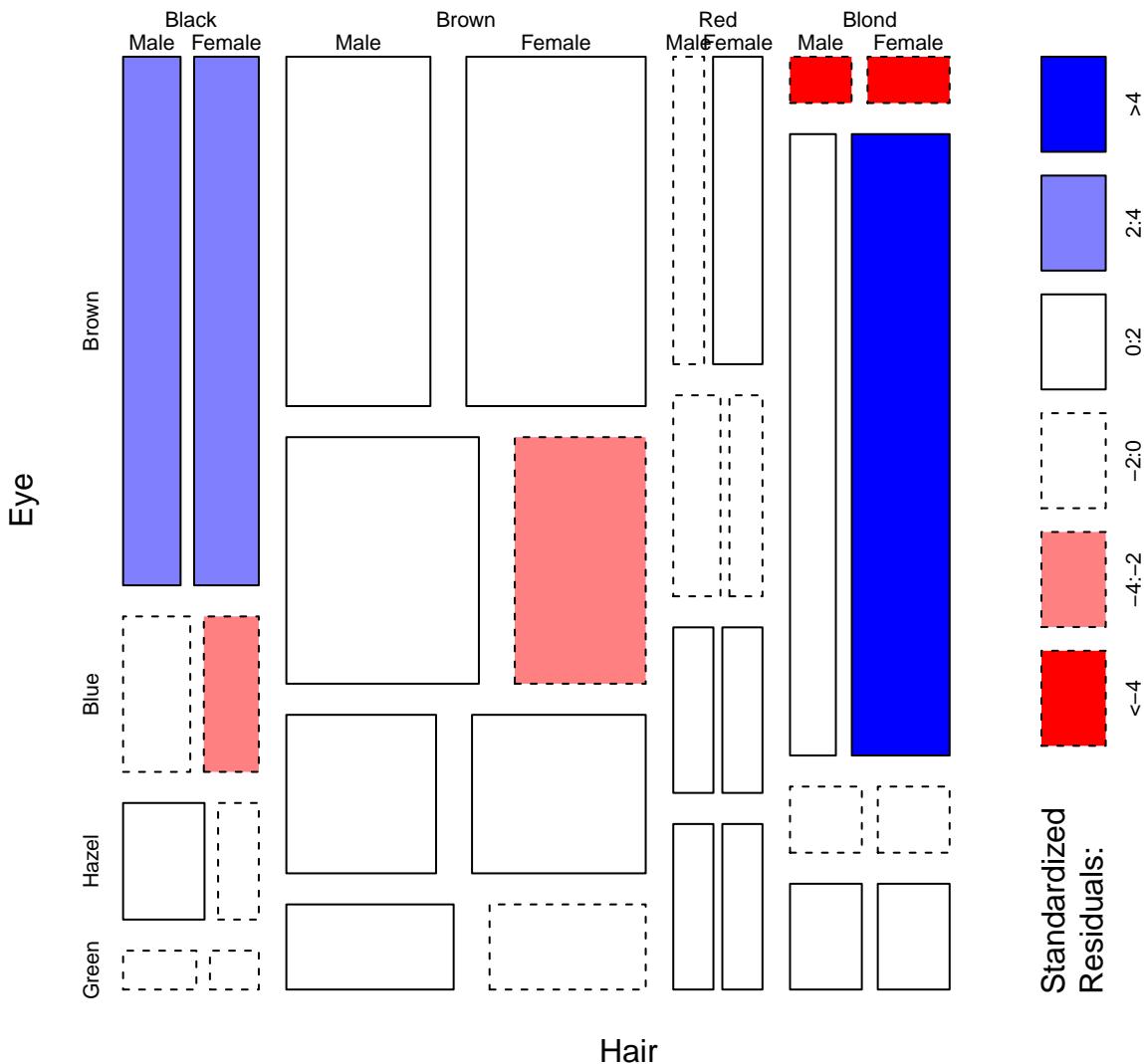




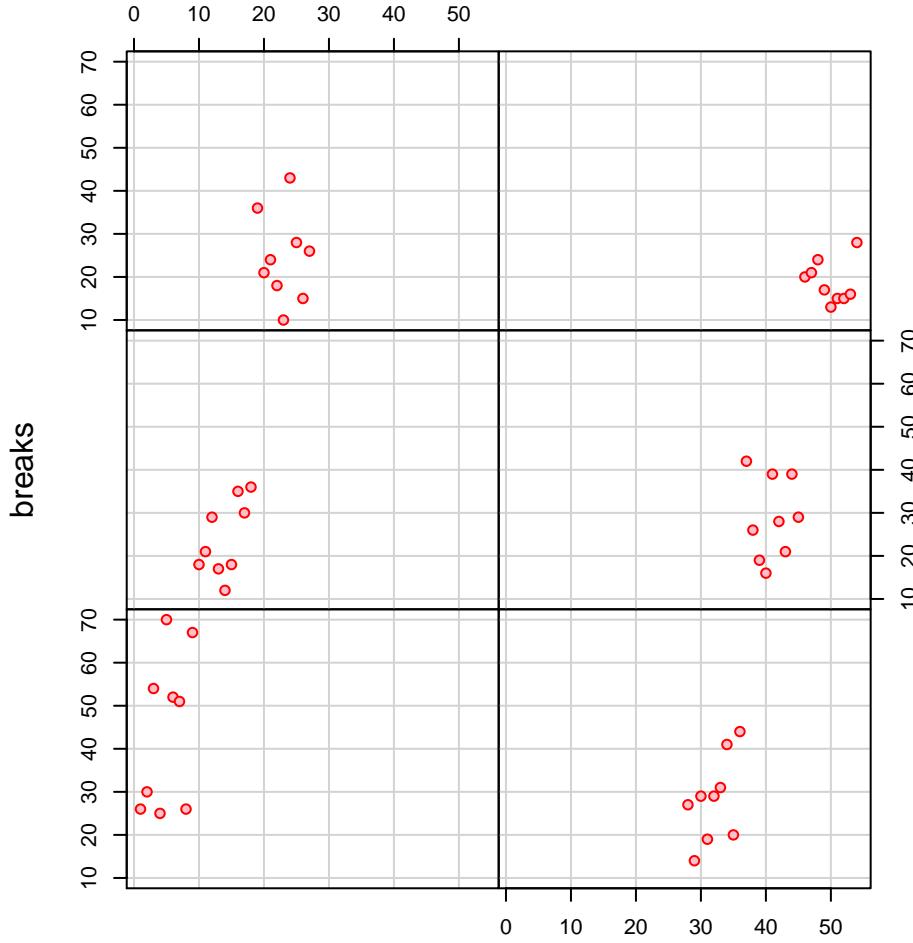
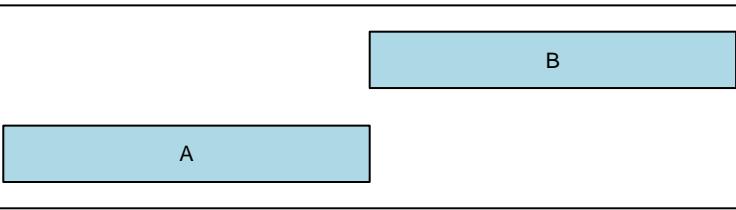


Three
Varieties
of
Iris

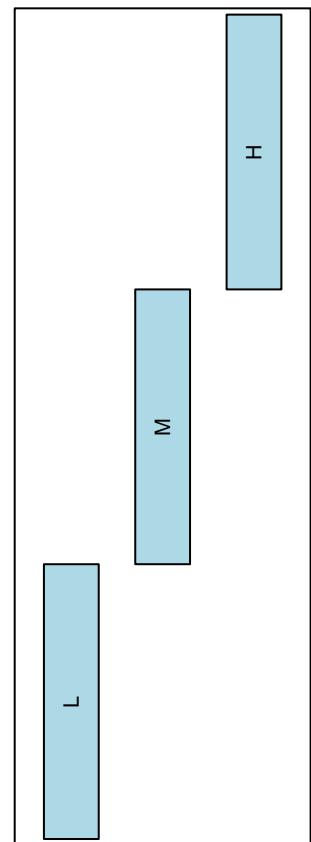
HairEyeColor

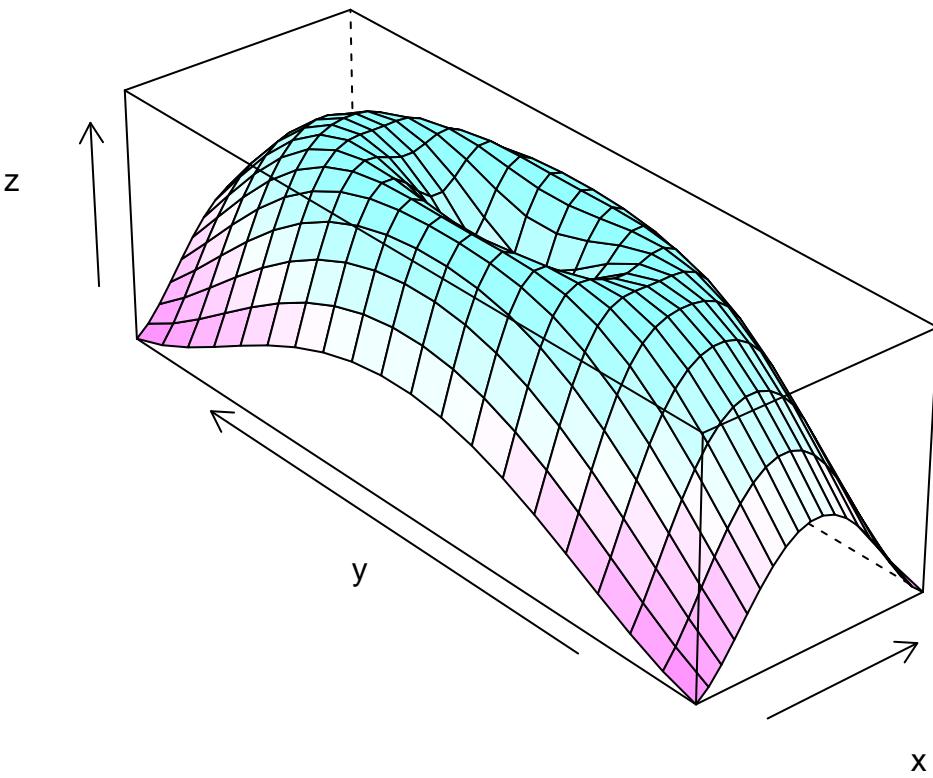


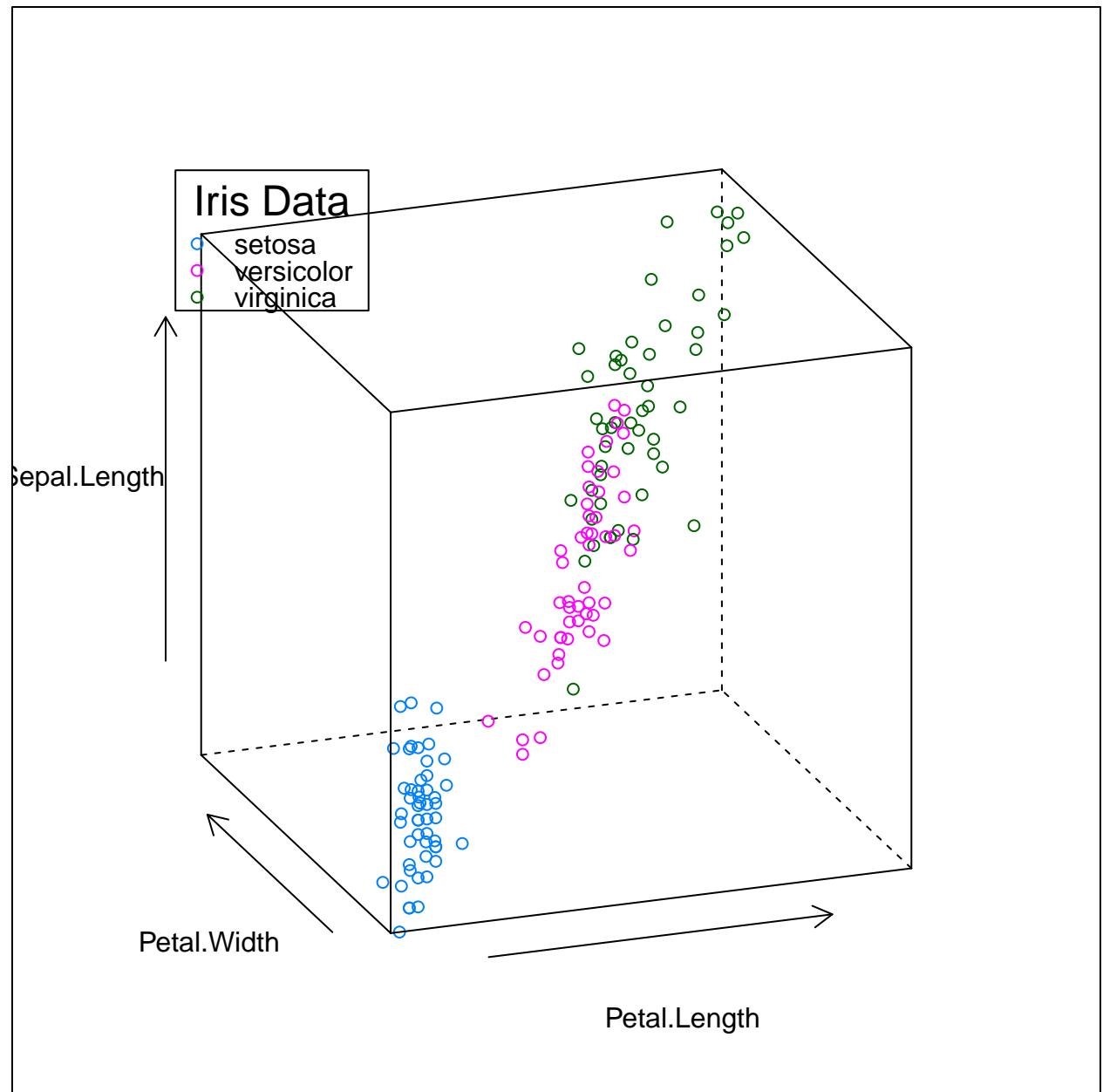
Given : wool



Given : tension

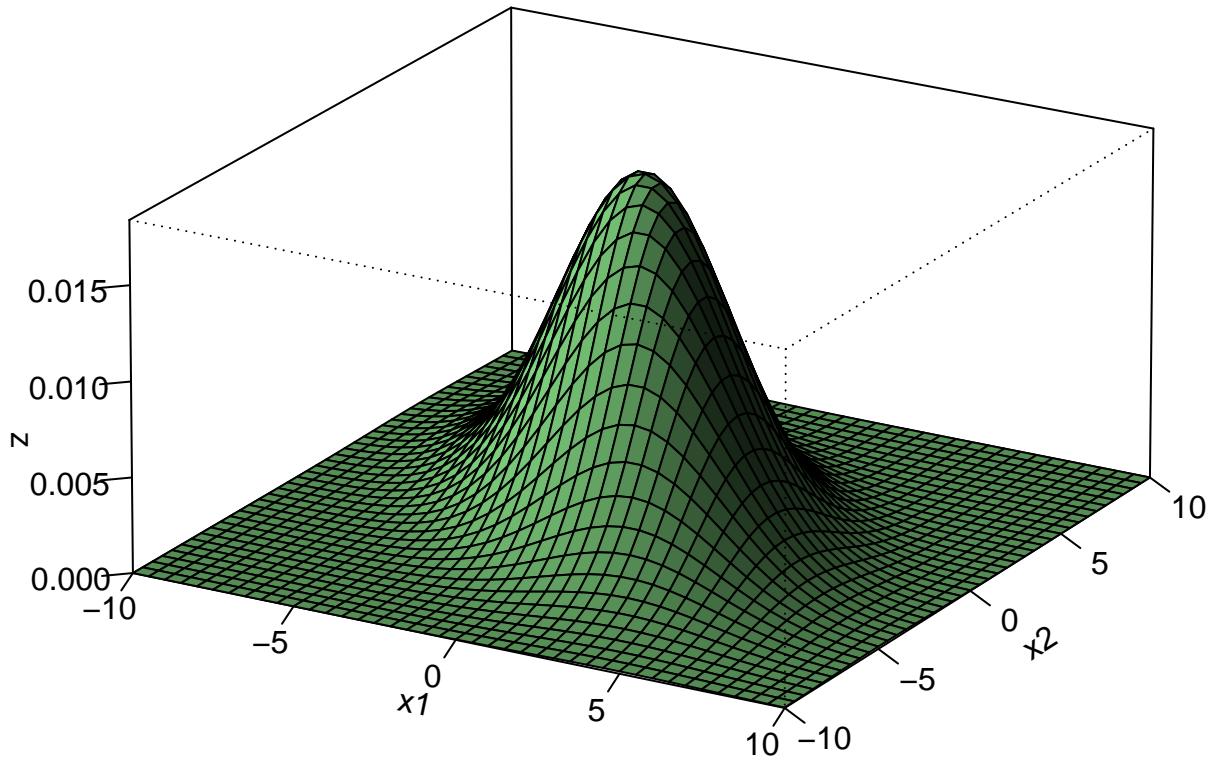






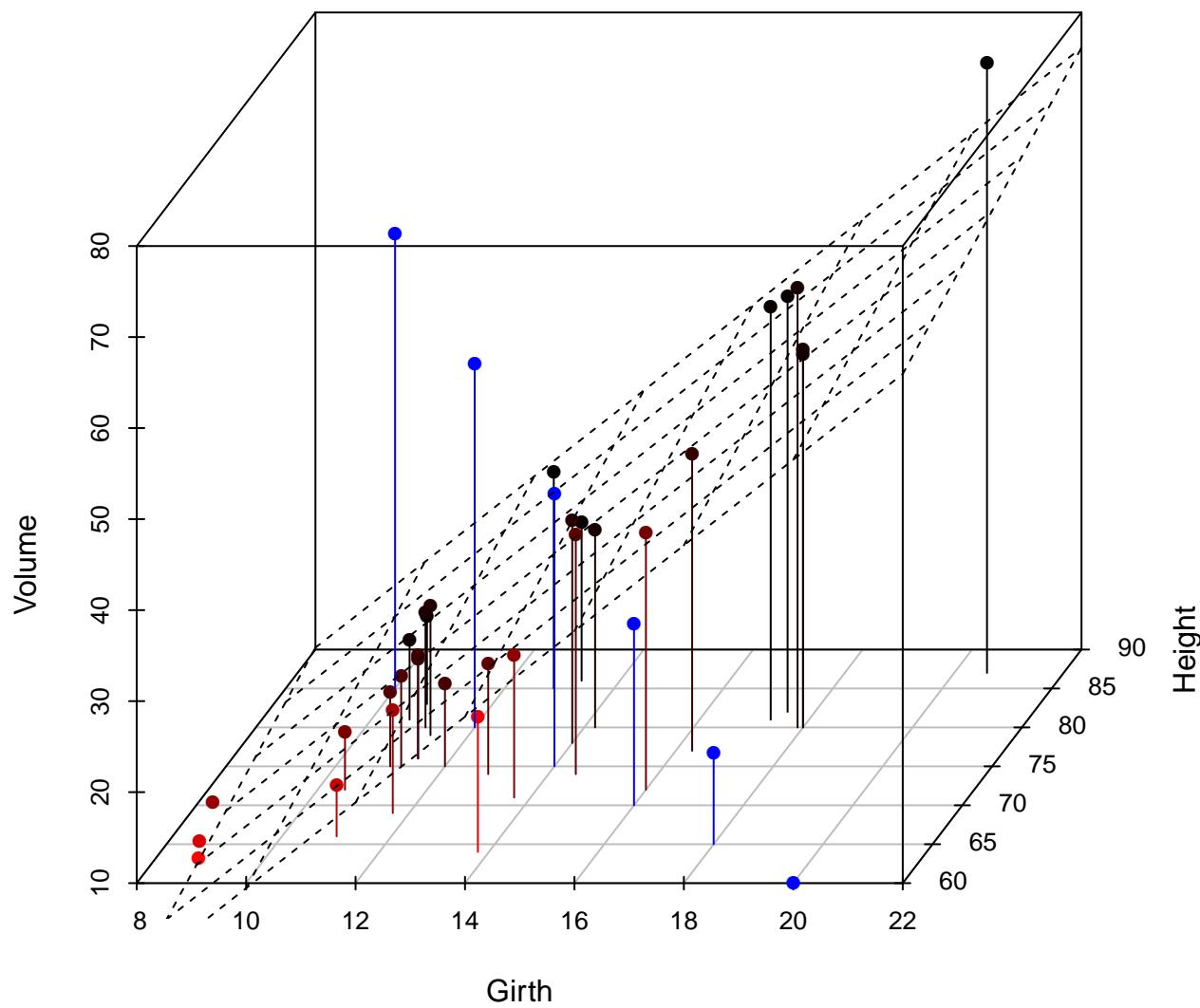
Two dimensional Normal Distribution

$\mu_1 = 0, \mu_2 = 0, \sigma_{11} = 10, \sigma_{22} = 10, \sigma_{12} = 15, \rho = 0.5$

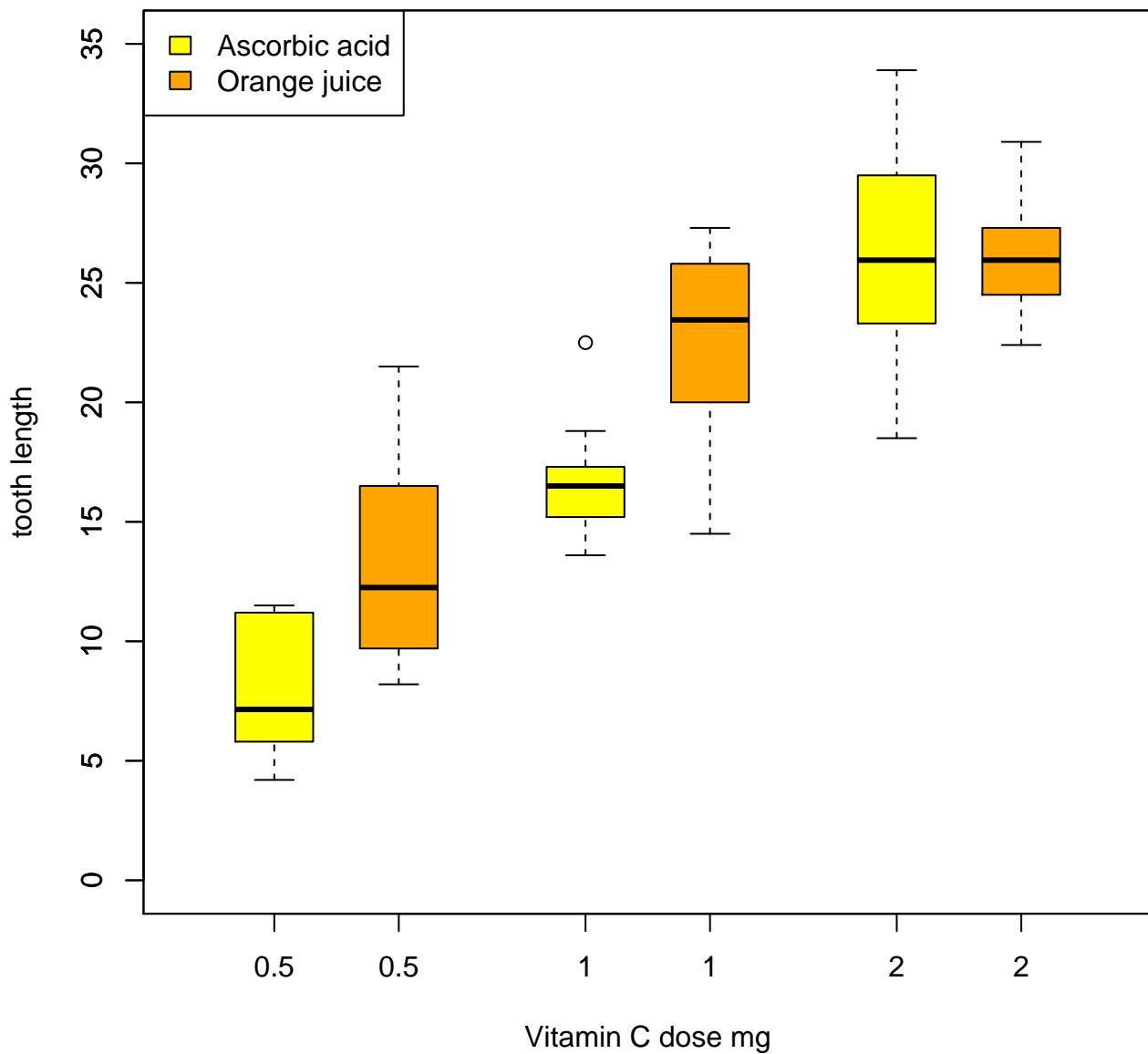


$$f(\mathbf{x}) = \frac{1}{2\pi\sqrt{\sigma_{11}\sigma_{22}(1-\rho^2)}} \exp \left\{ -\frac{1}{2(1-\rho^2)} \left[\frac{(x_1 - \mu_1)^2}{\sigma_{11}} - 2\rho \frac{x_1 - \mu_1}{\sqrt{\sigma_{11}}} \frac{x_2 - \mu_2}{\sqrt{\sigma_{22}}} + \frac{(x_2 - \mu_2)^2}{\sigma_{22}} \right] \right\}$$

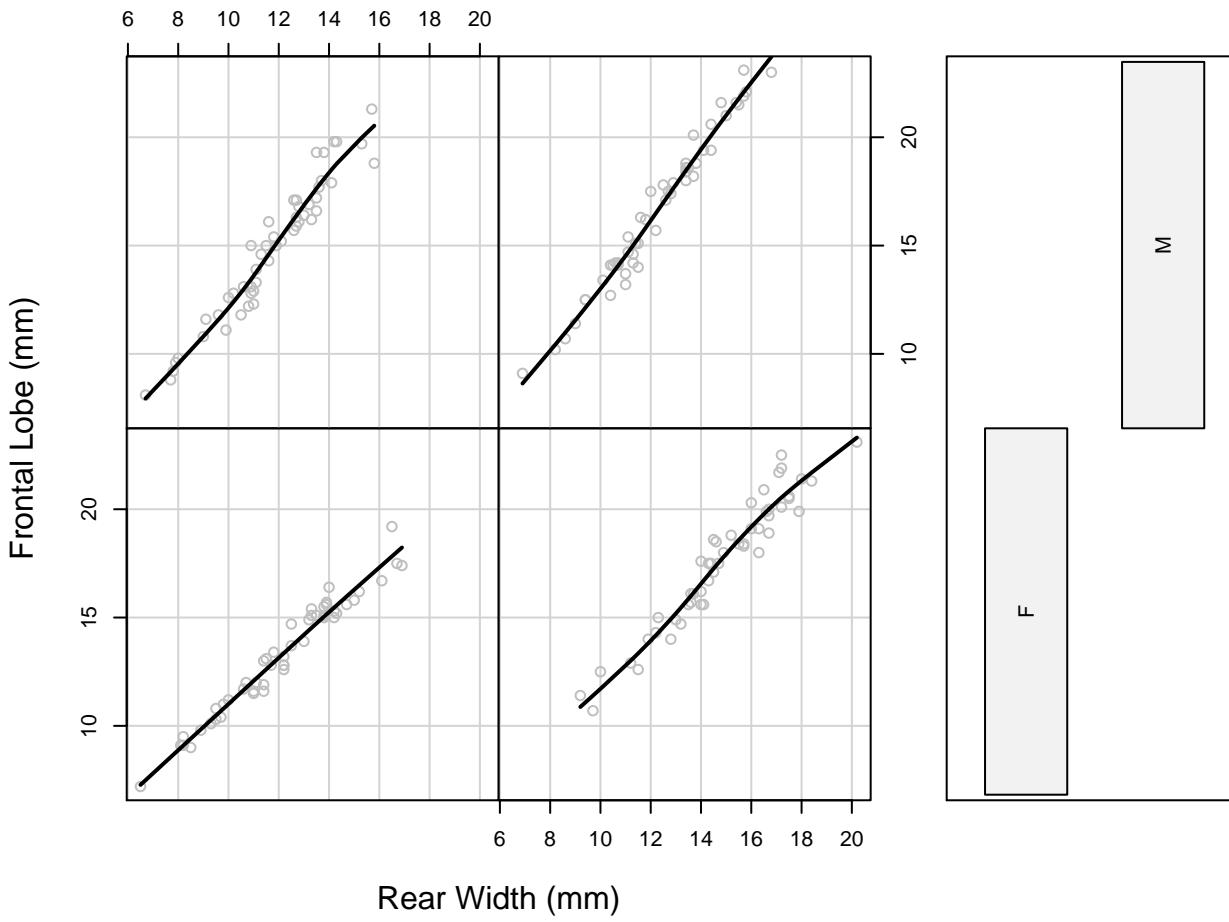
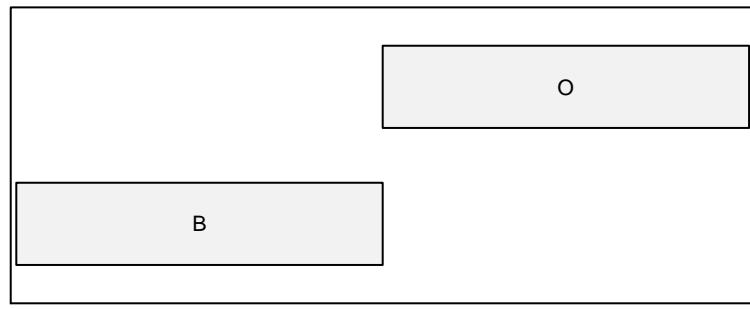
scatterplot3d – 5



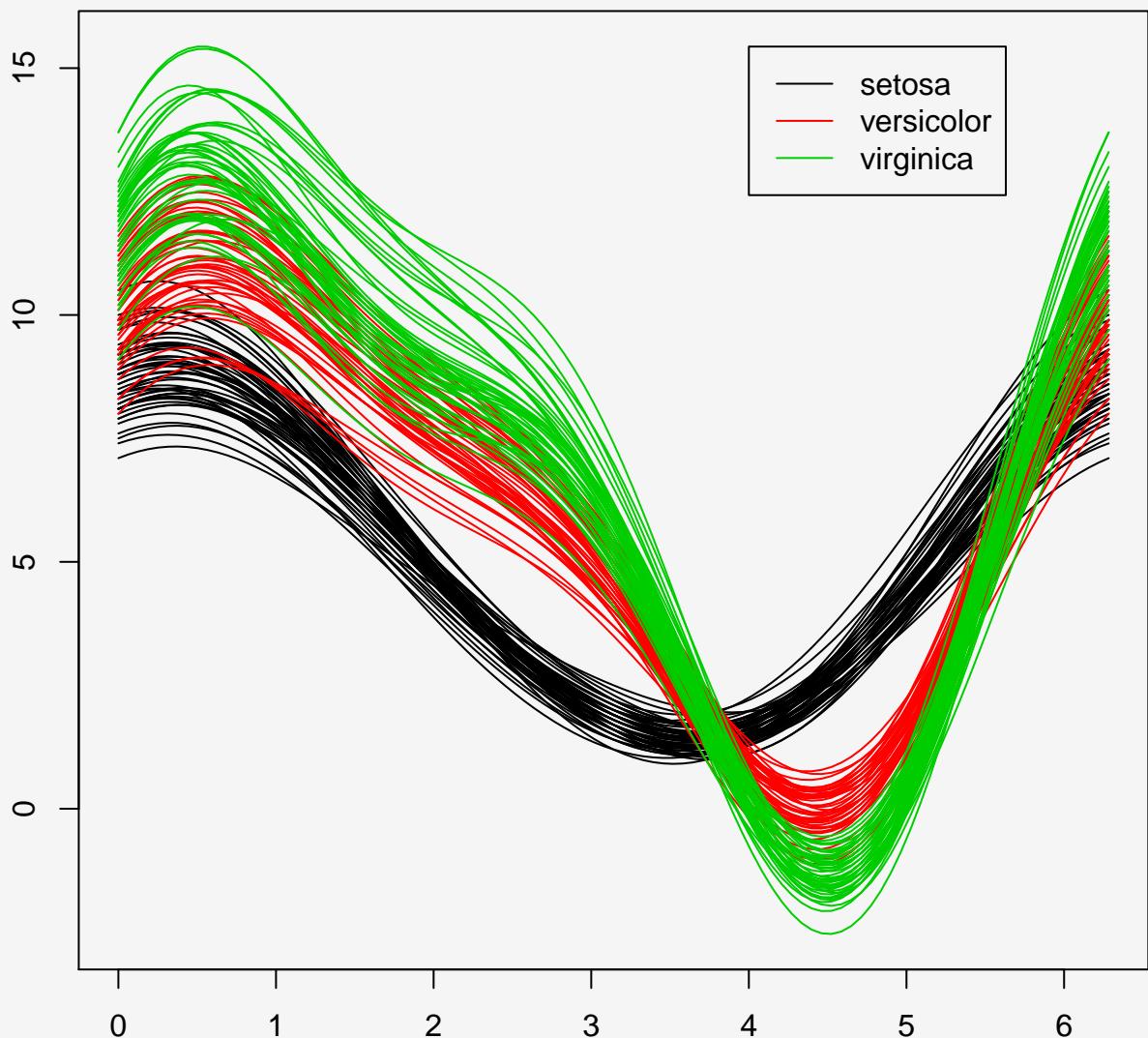
Guinea Pigs' Tooth Growth



Given : sp

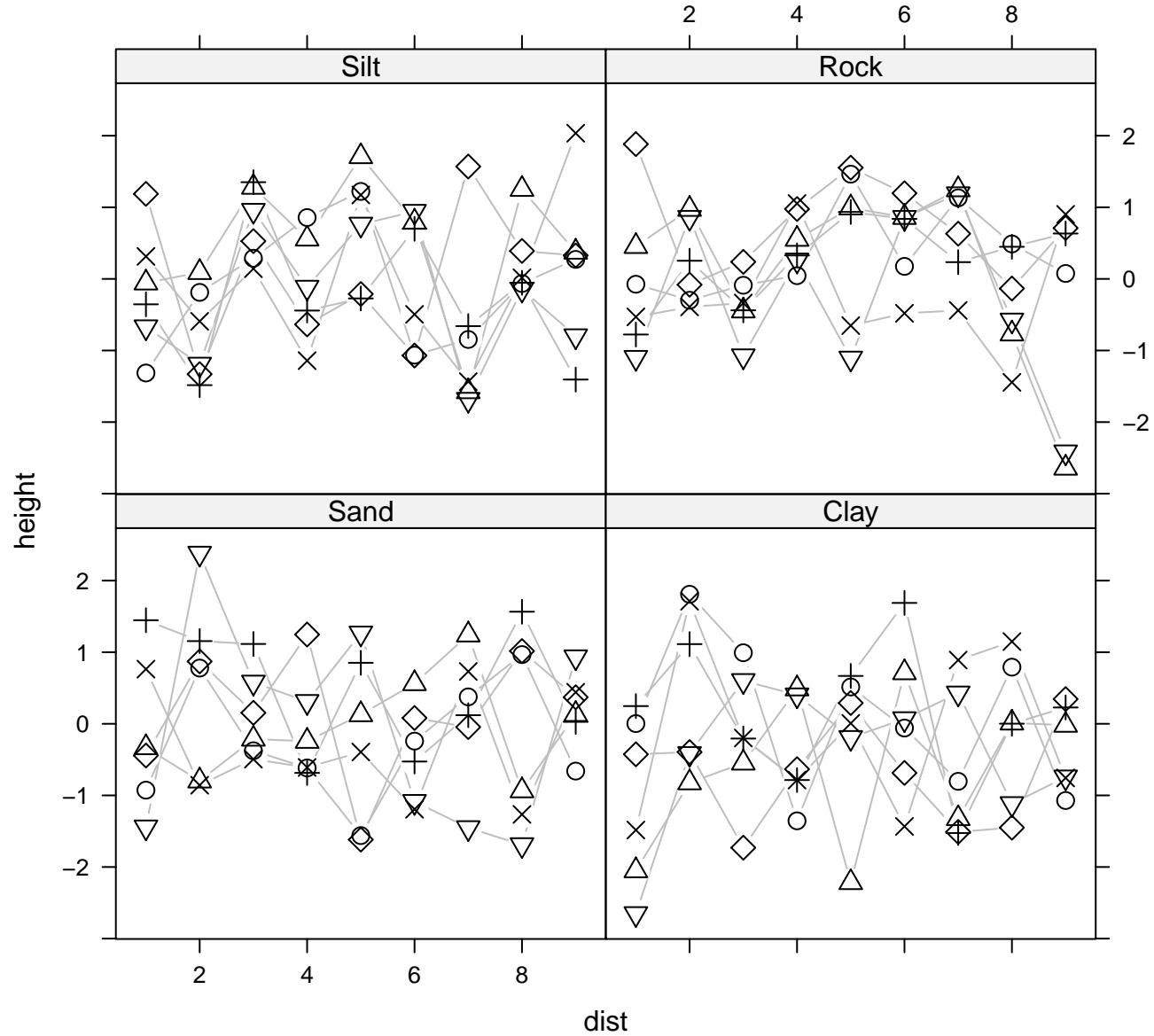


Andrews' Curves



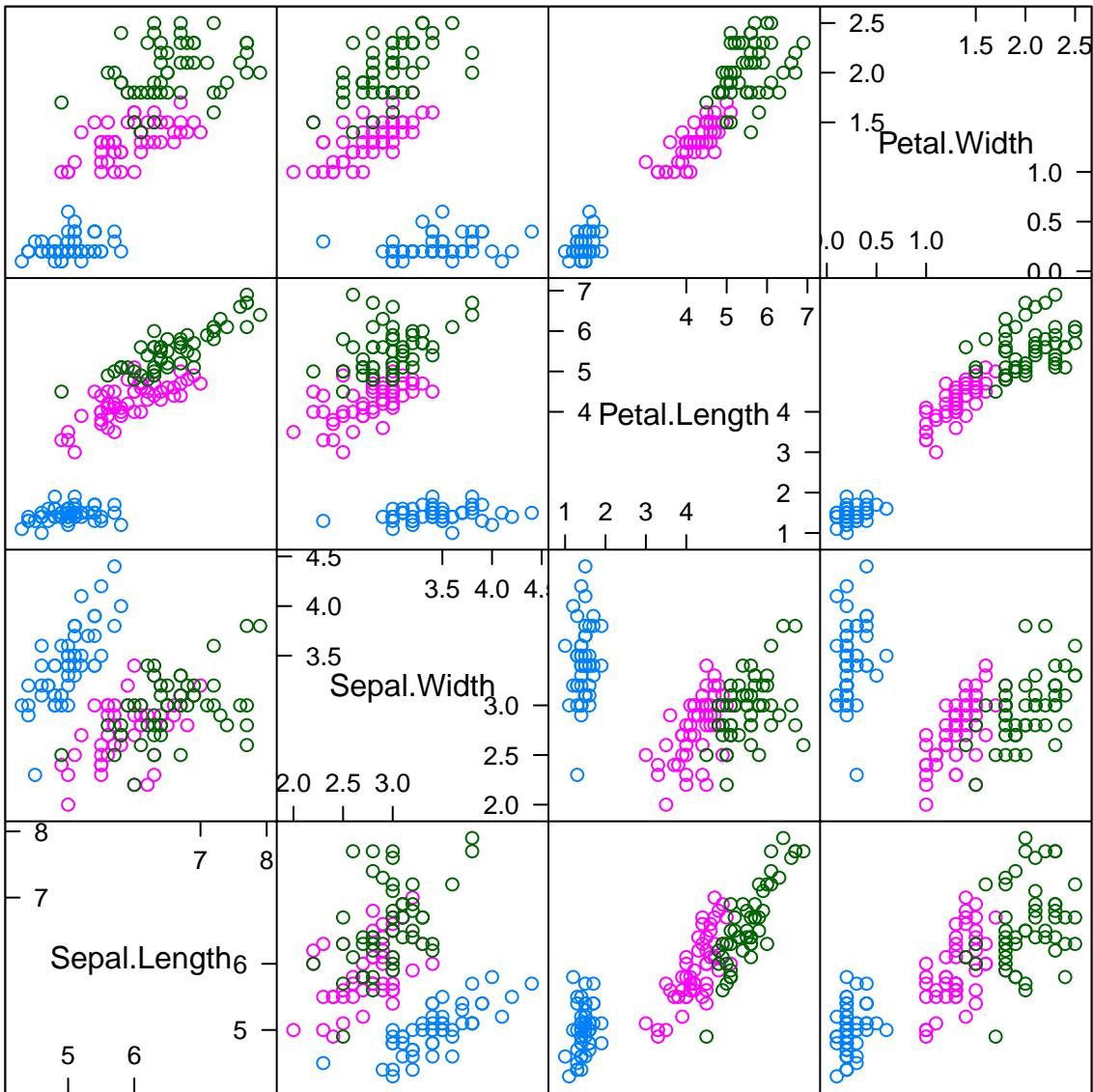
ArisDiff
BracSera
CynDact

ElioMuti
EragCurS
EragPseu

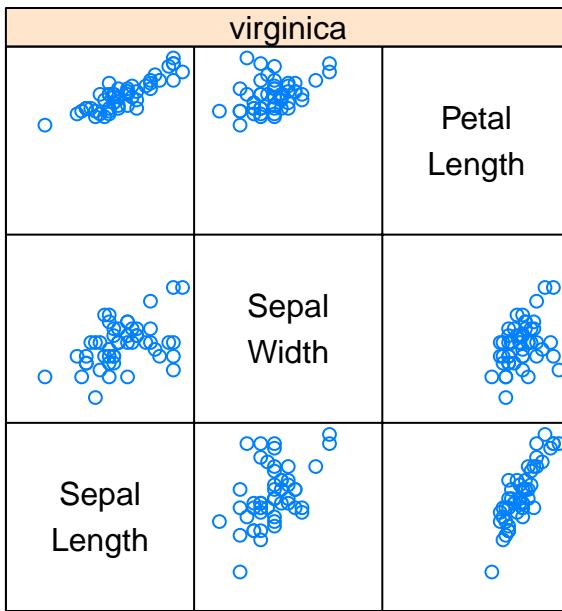


Three Varieties of Iris

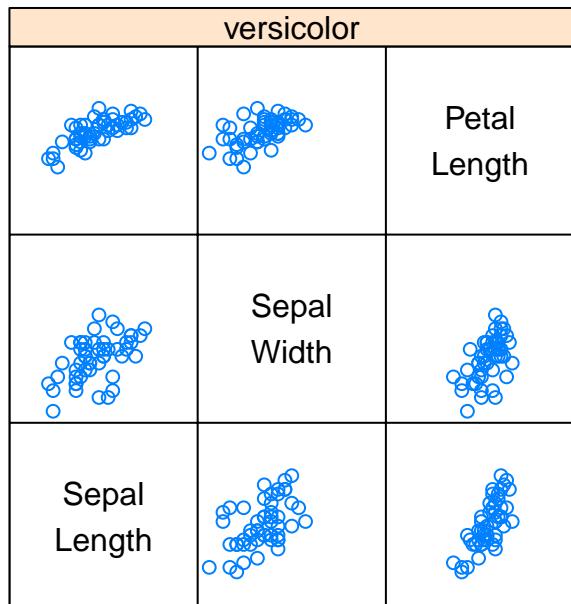
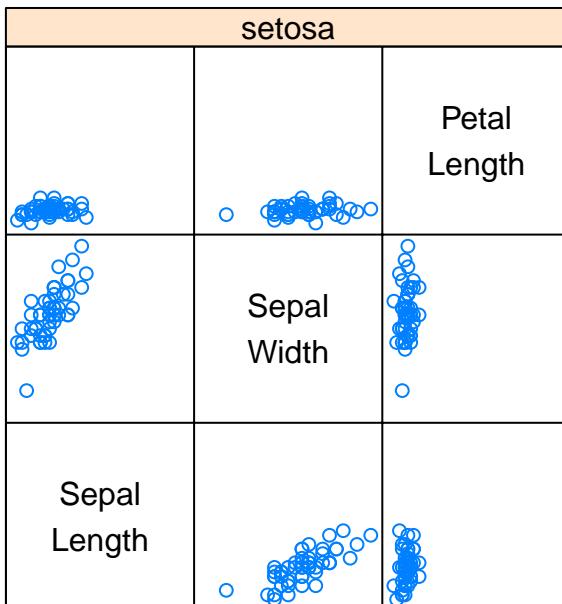
○ Setosa ○ Versicolor ○ Virginica



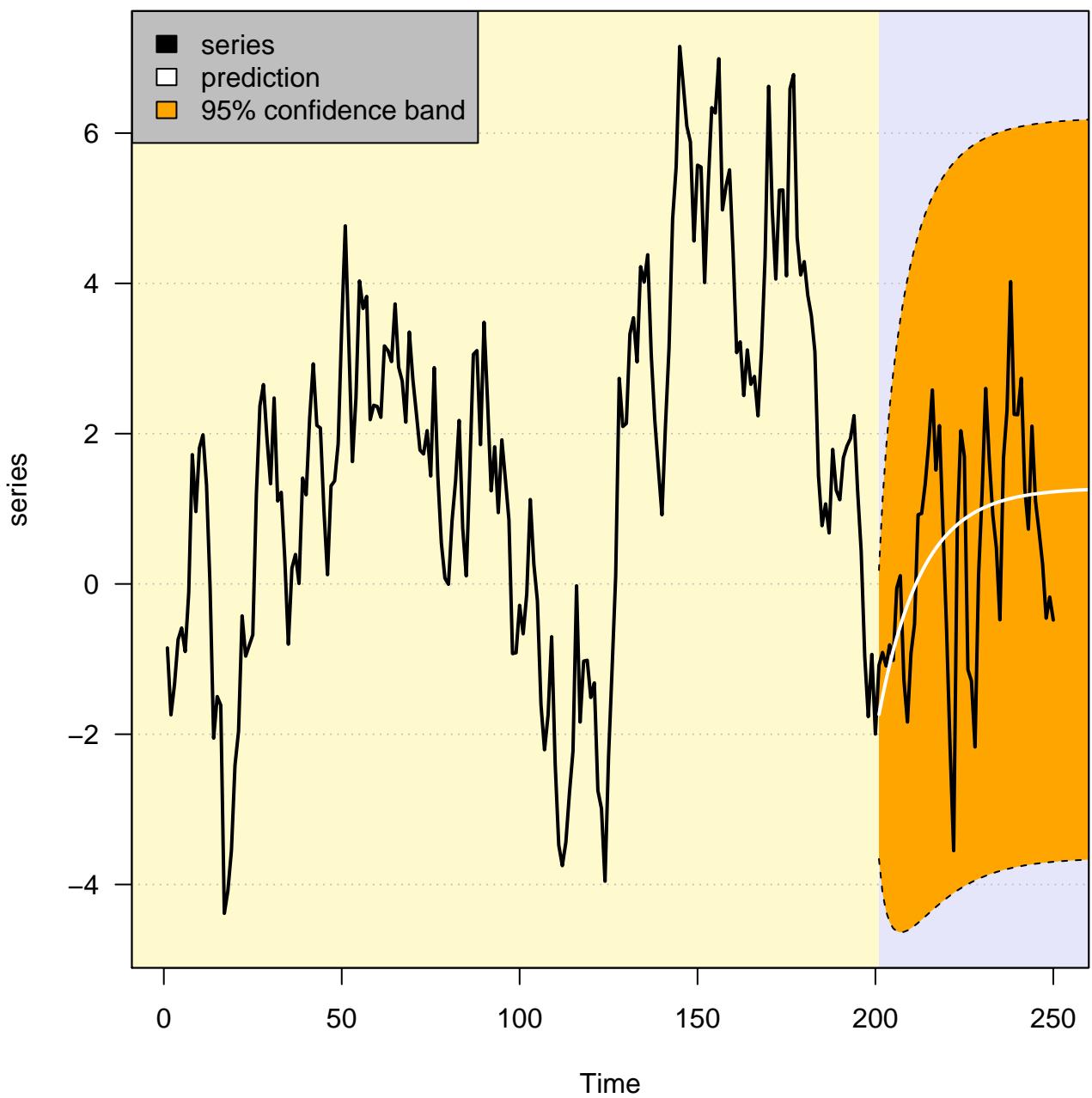
Scatter Plot Matrix

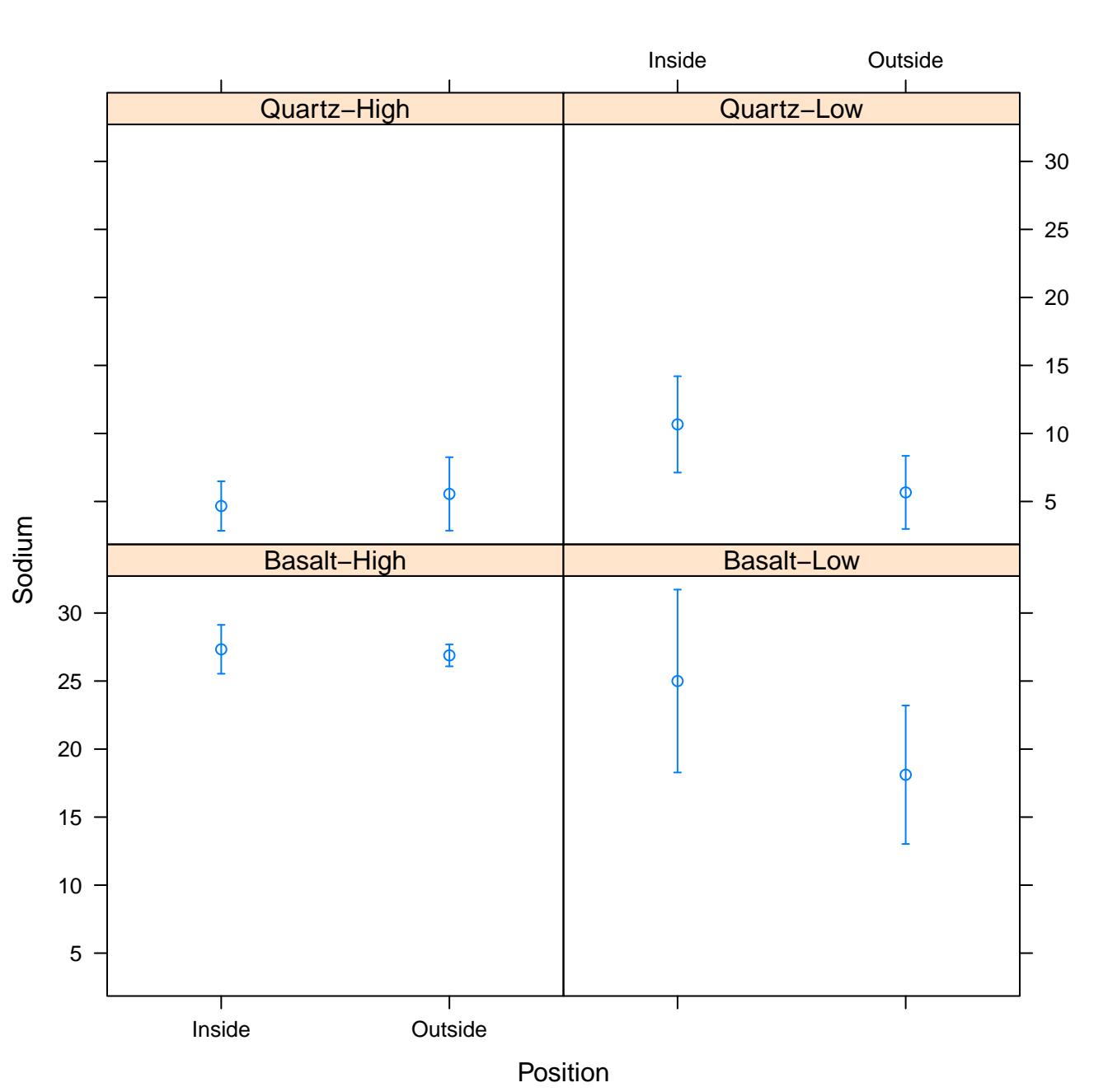


Three
Varieties
of
Iris

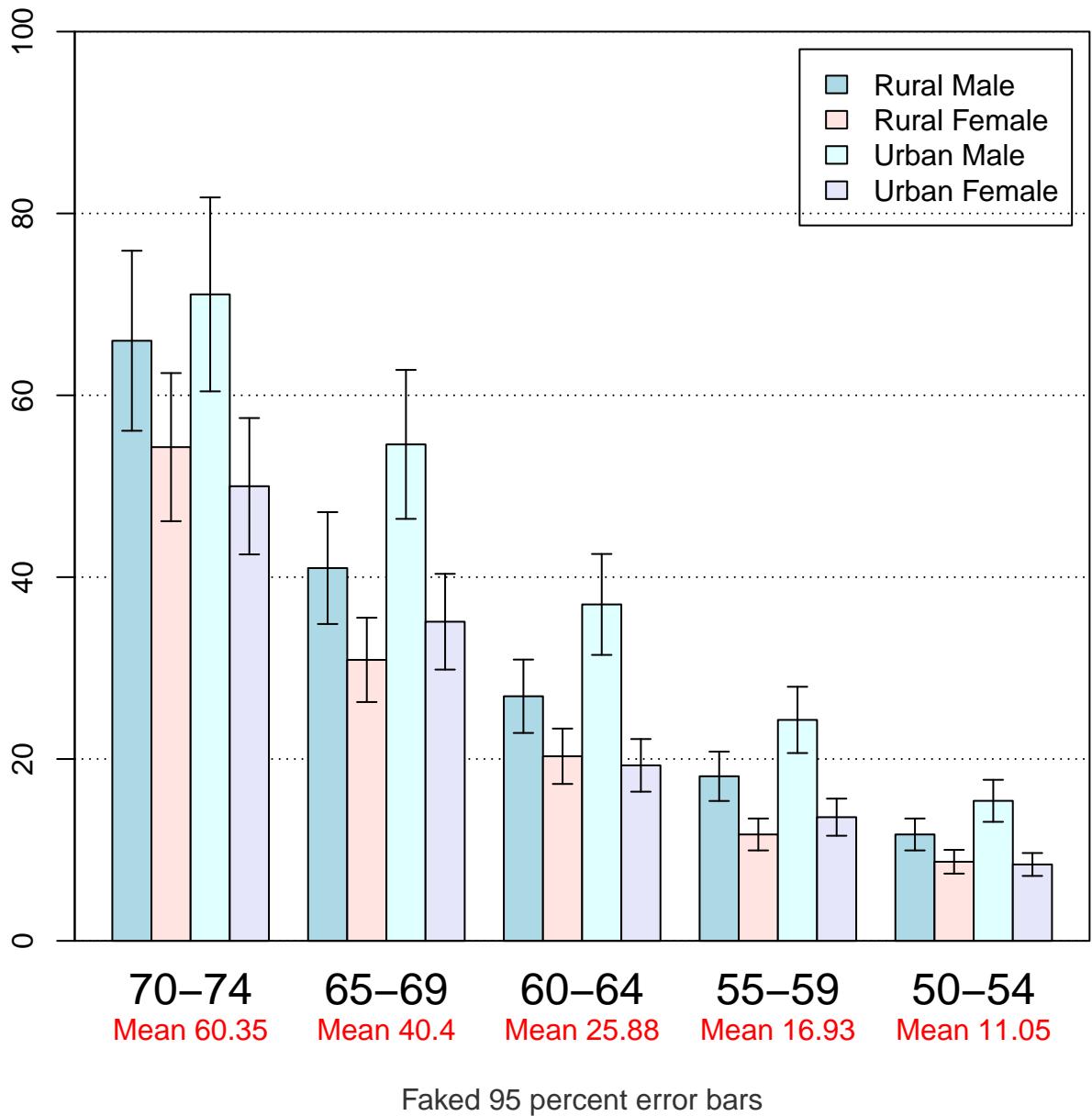


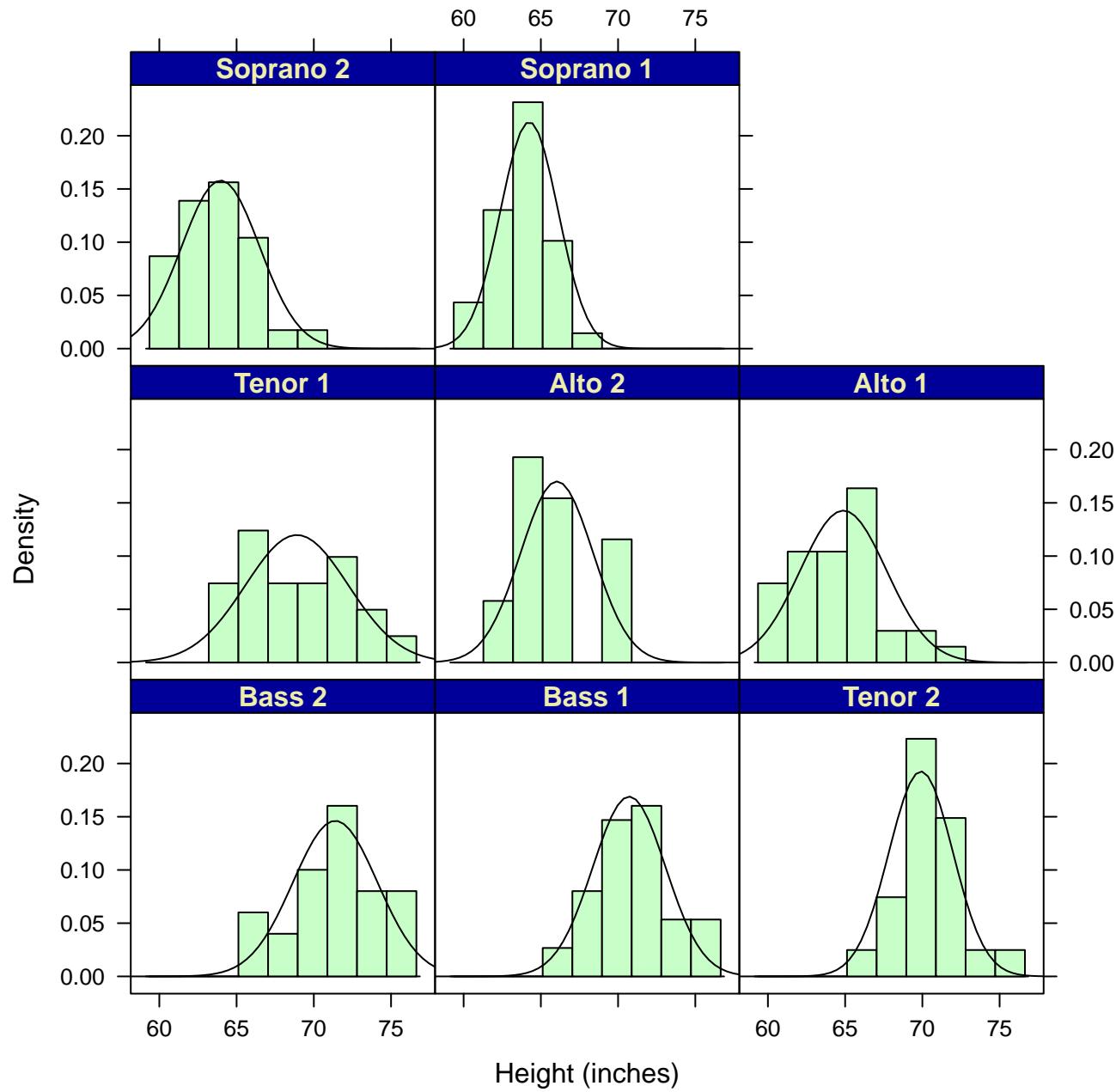
Scatter Plot Matrix



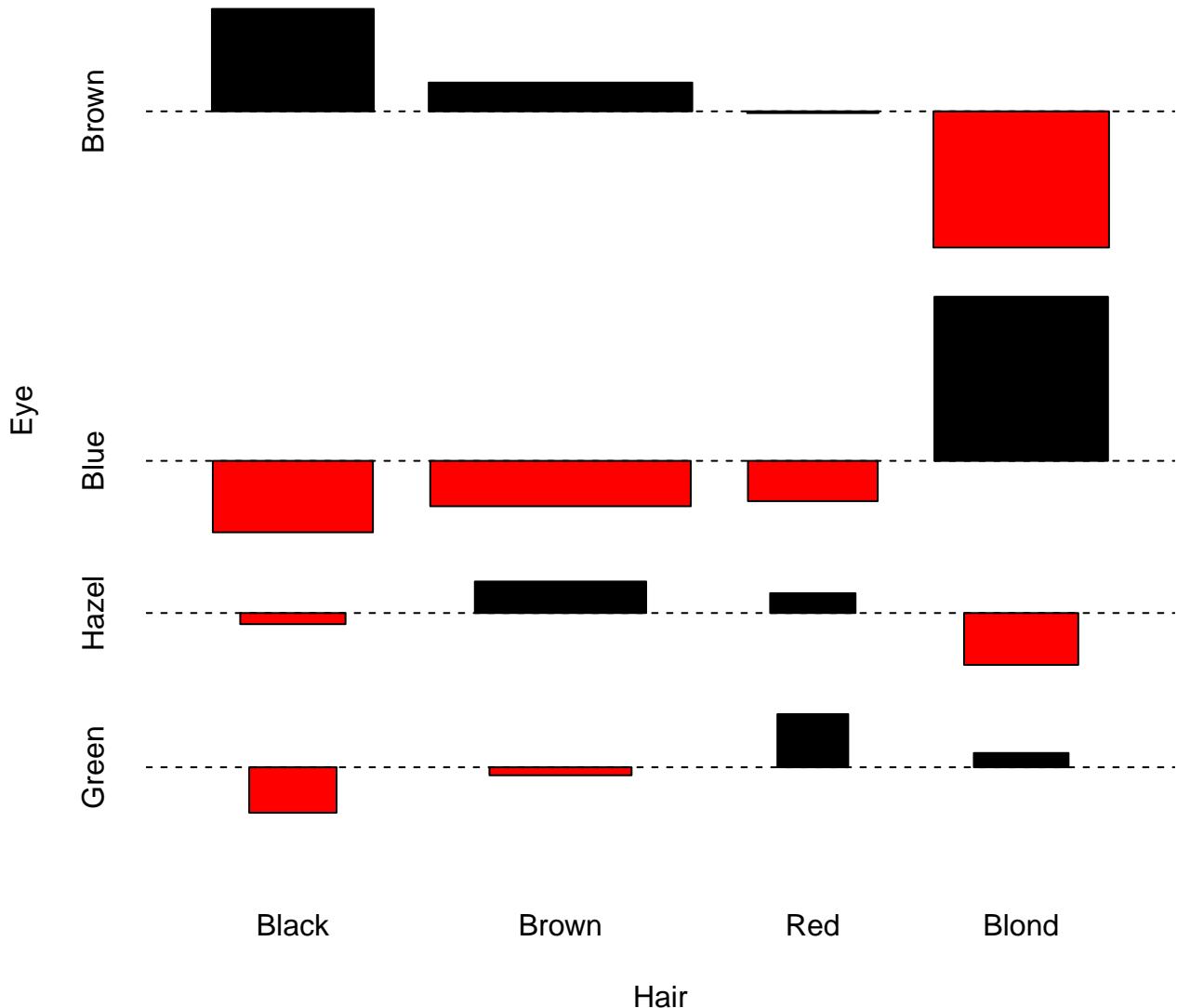


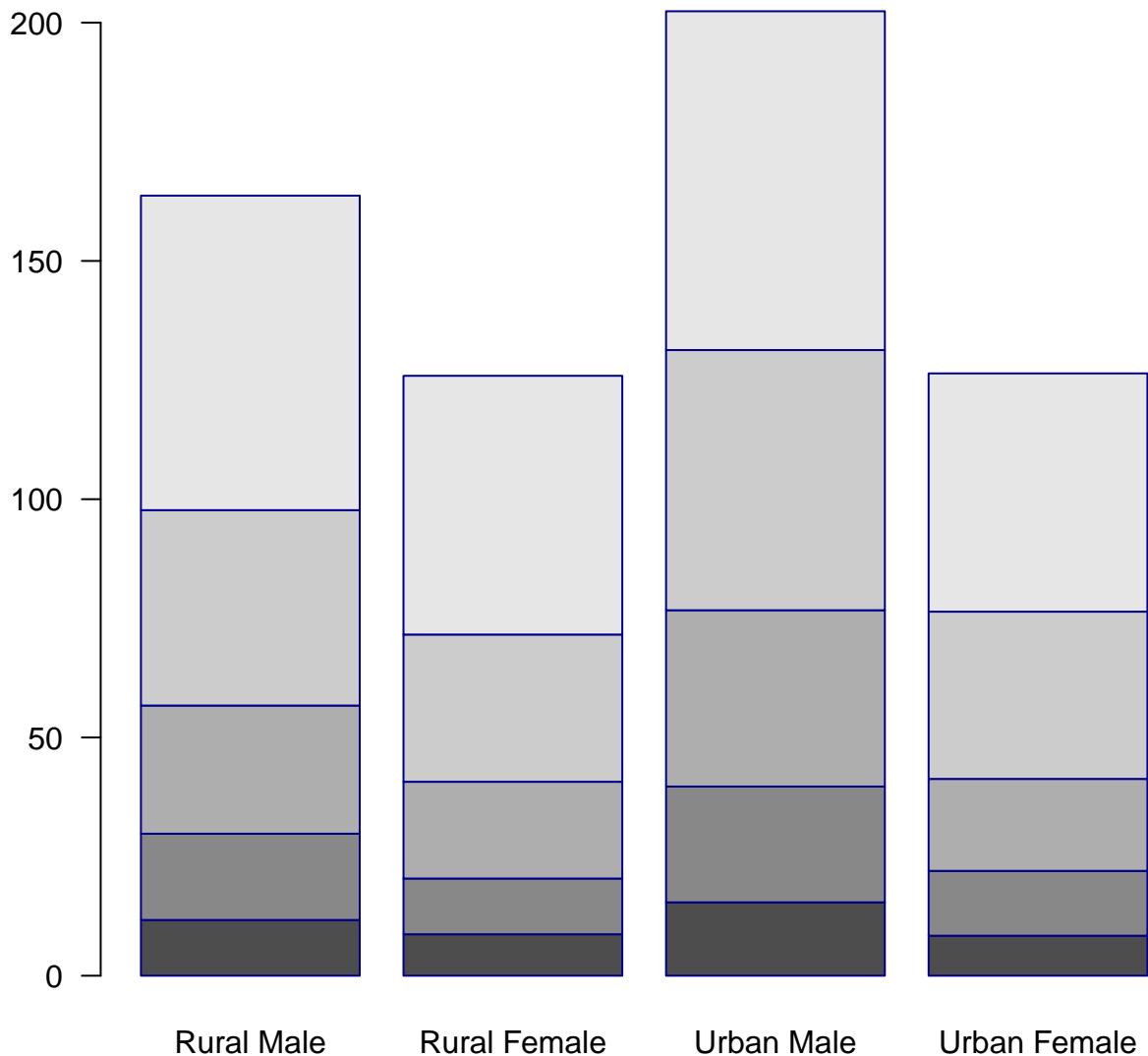
Death Rates in Virginia



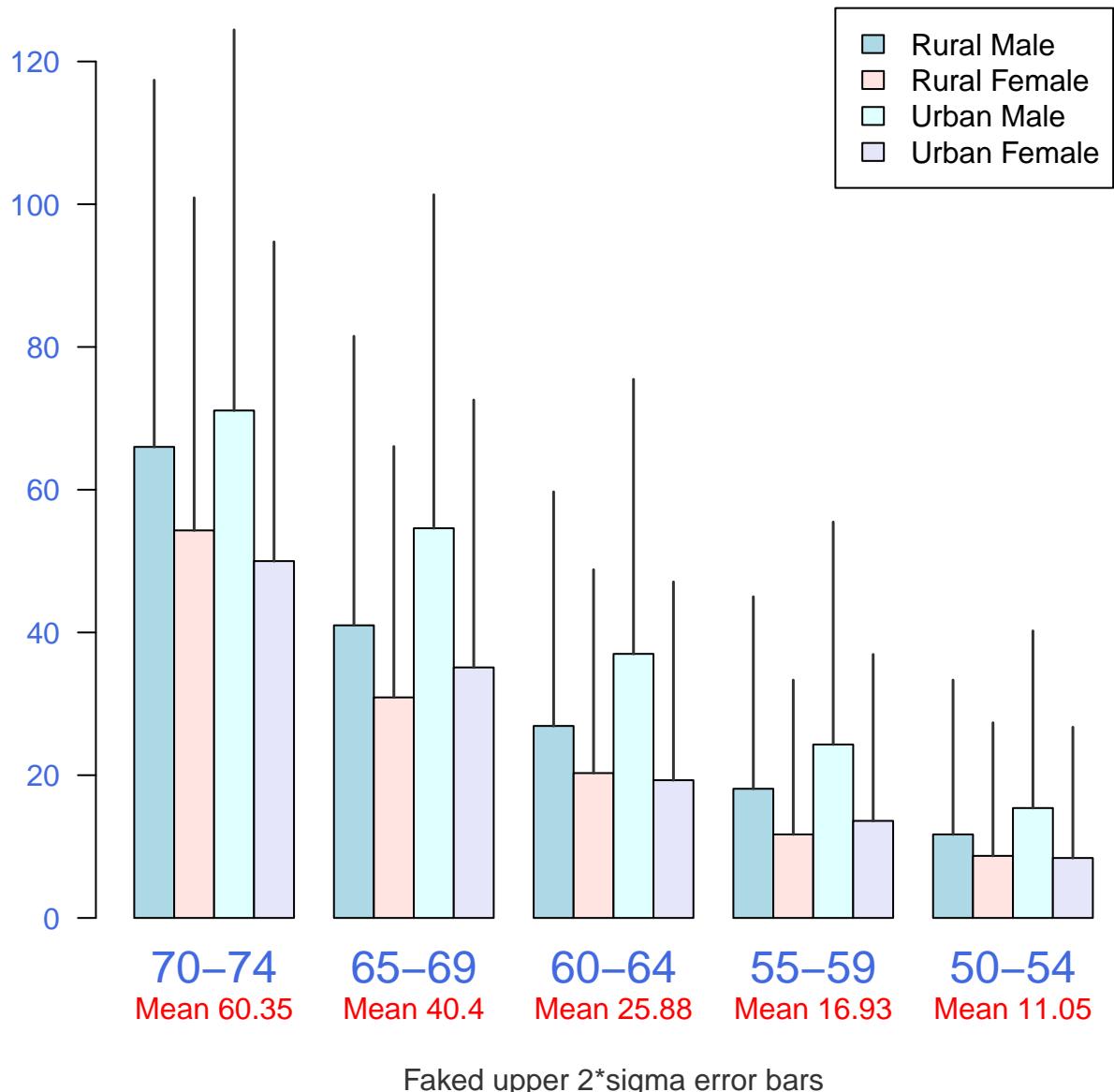


Relation between hair and eye color

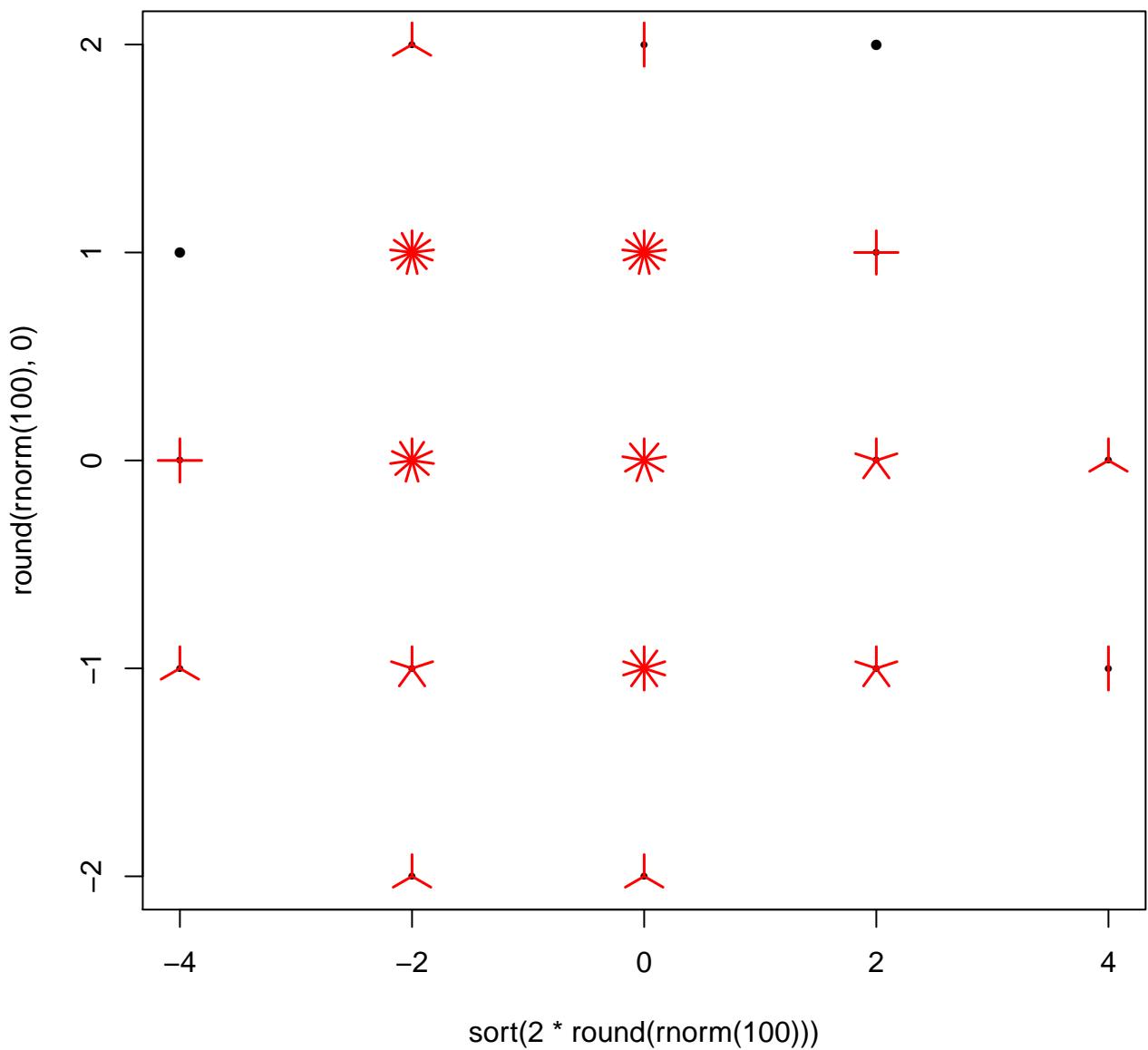




Death Rates in Virginia

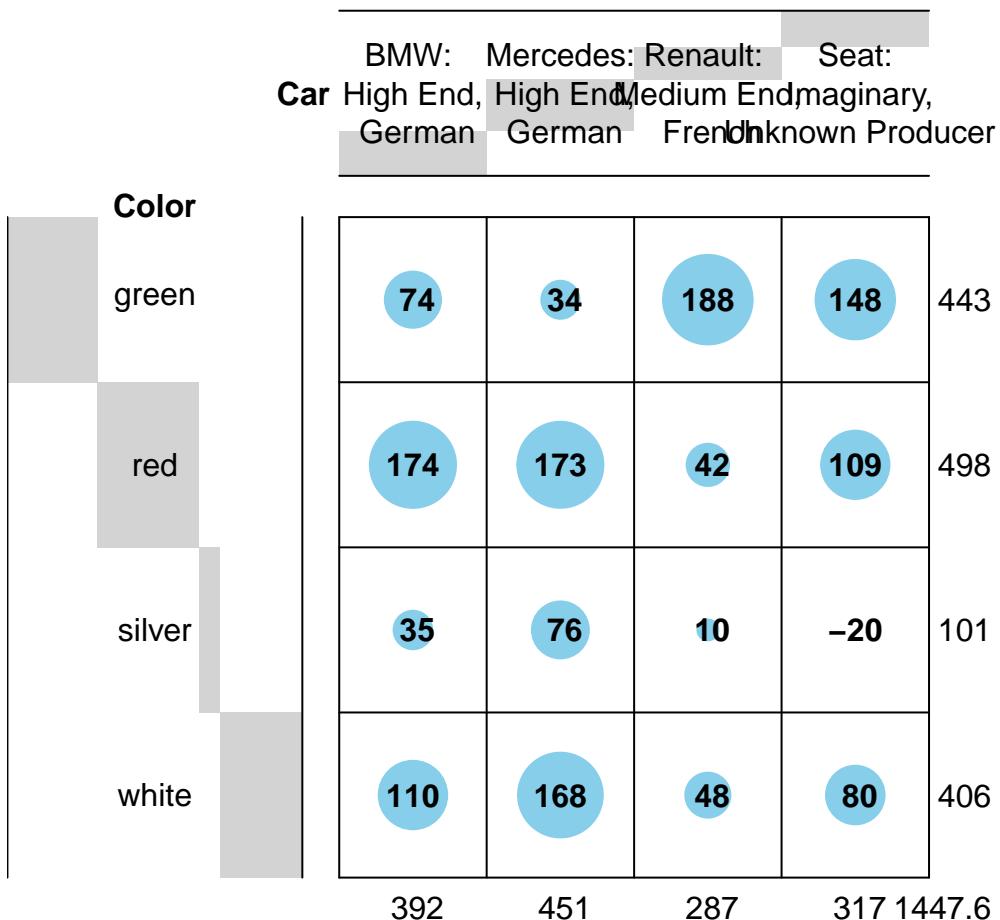


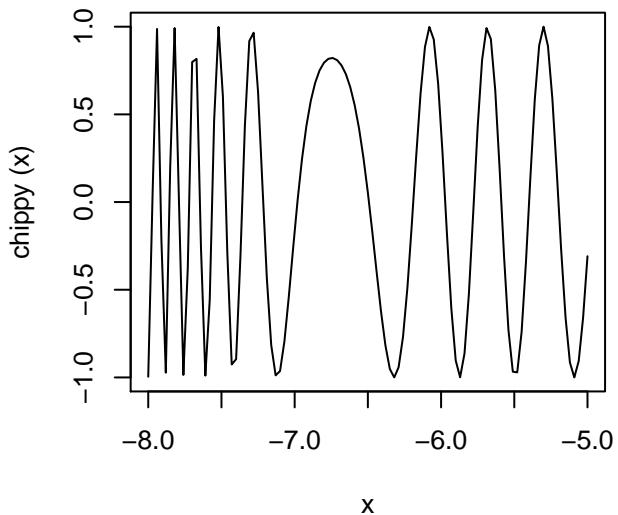
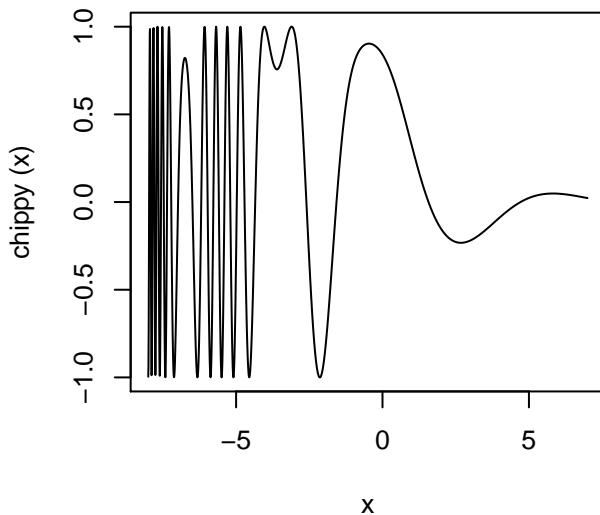
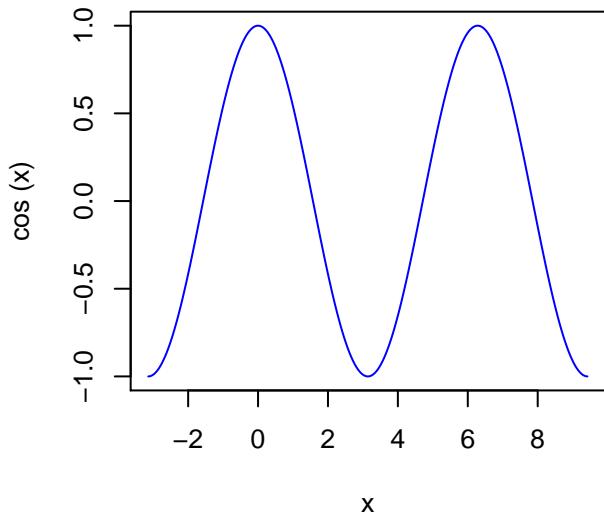
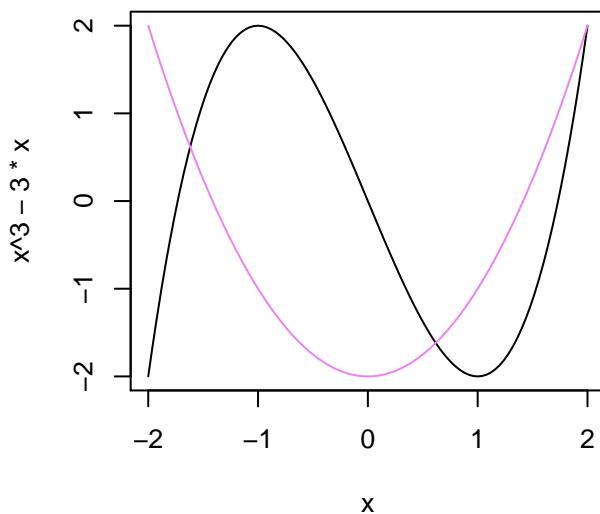
Sunflower Plot of Rounded N(0,1)



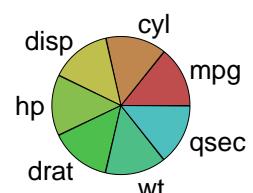
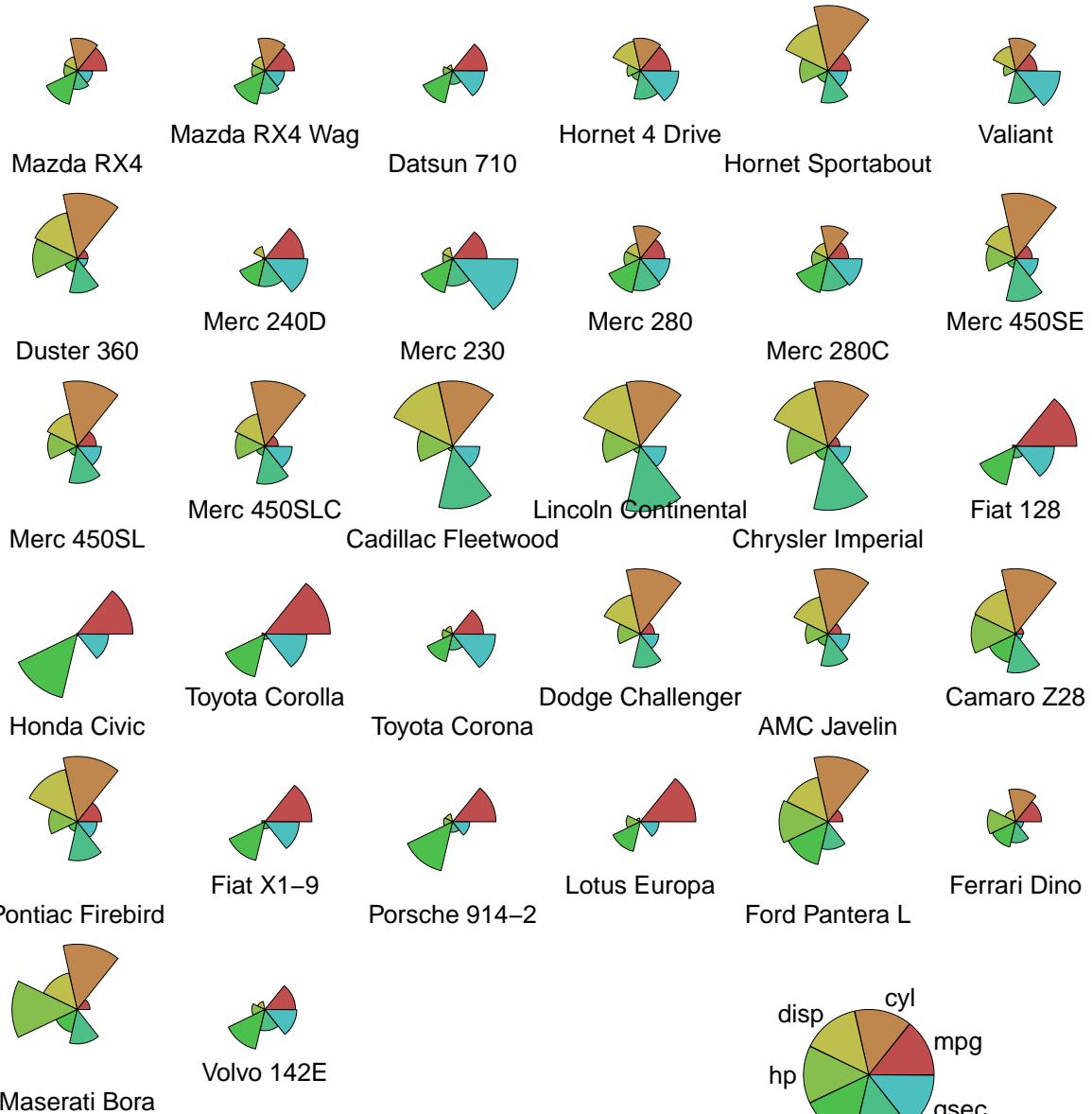
Balloon Plot for data, Car by data, Color.

Area is proportional to data\$Value.

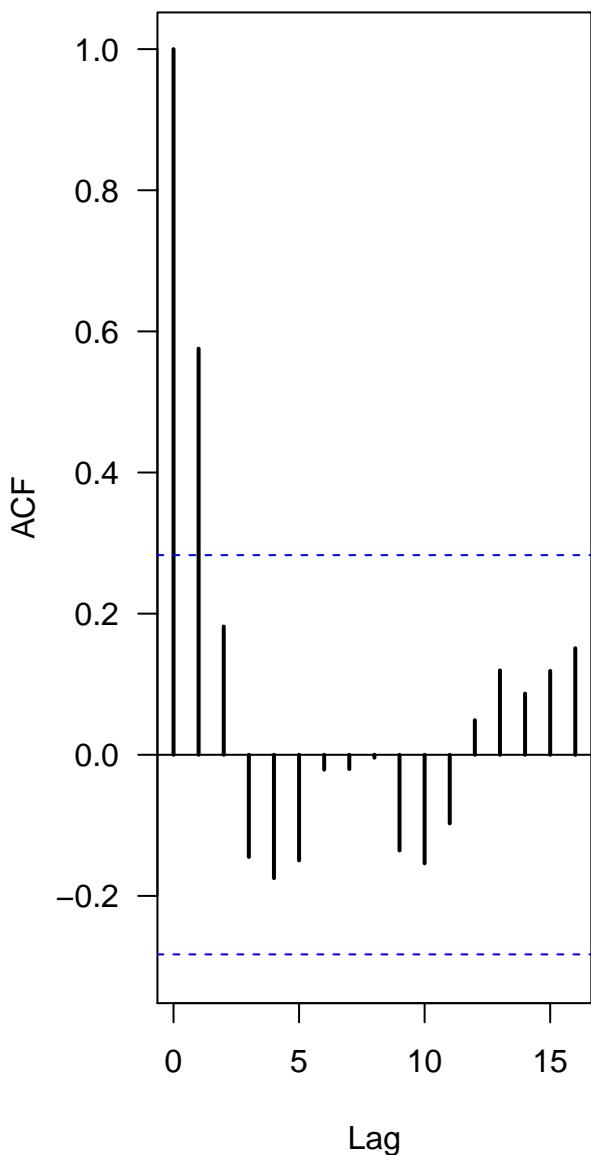




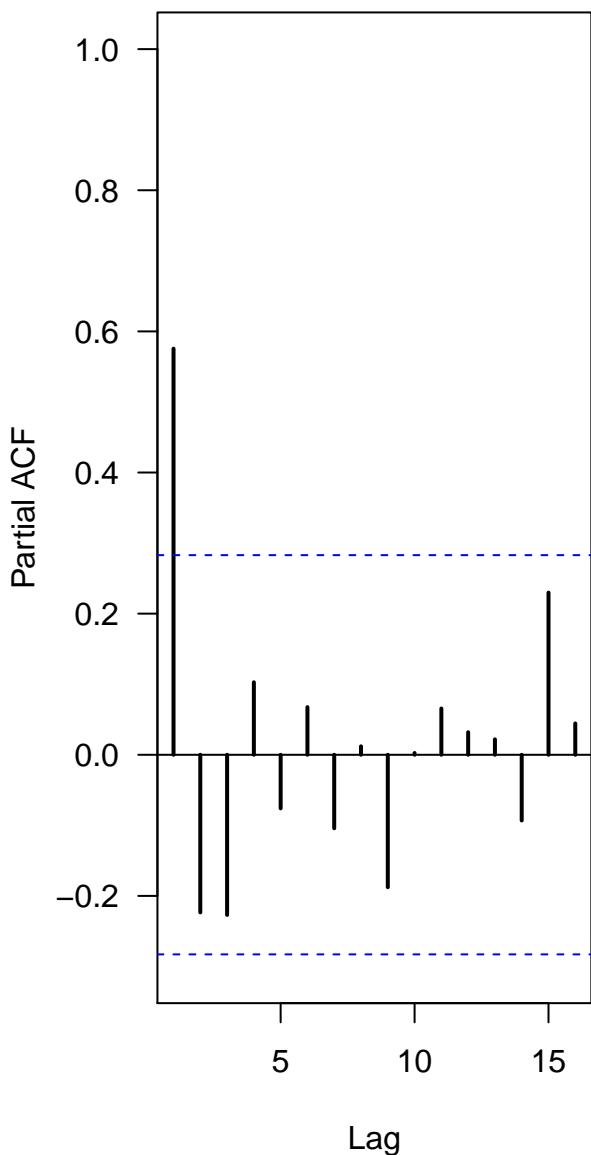
Motor Trend Cars



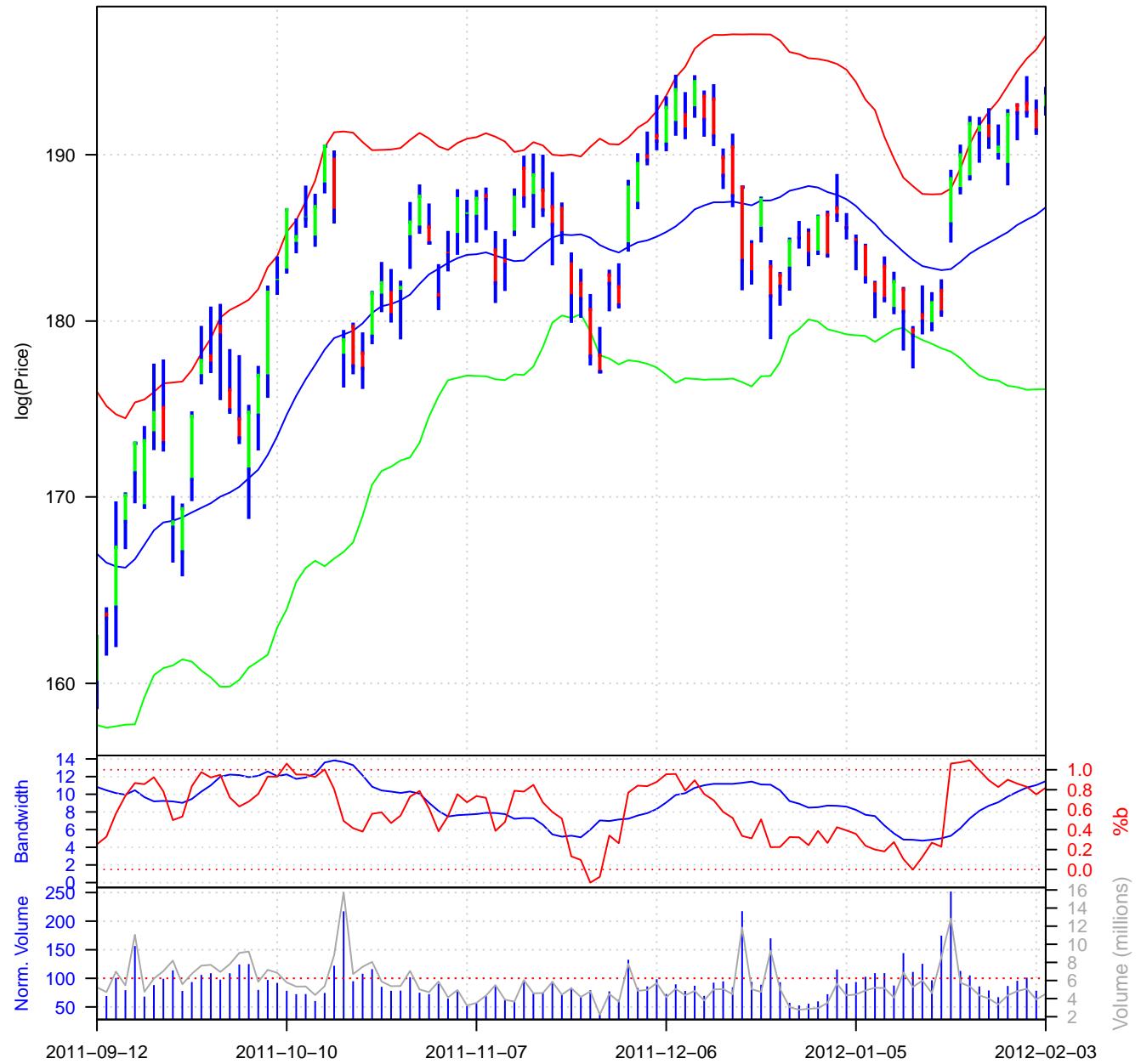
Series Ih



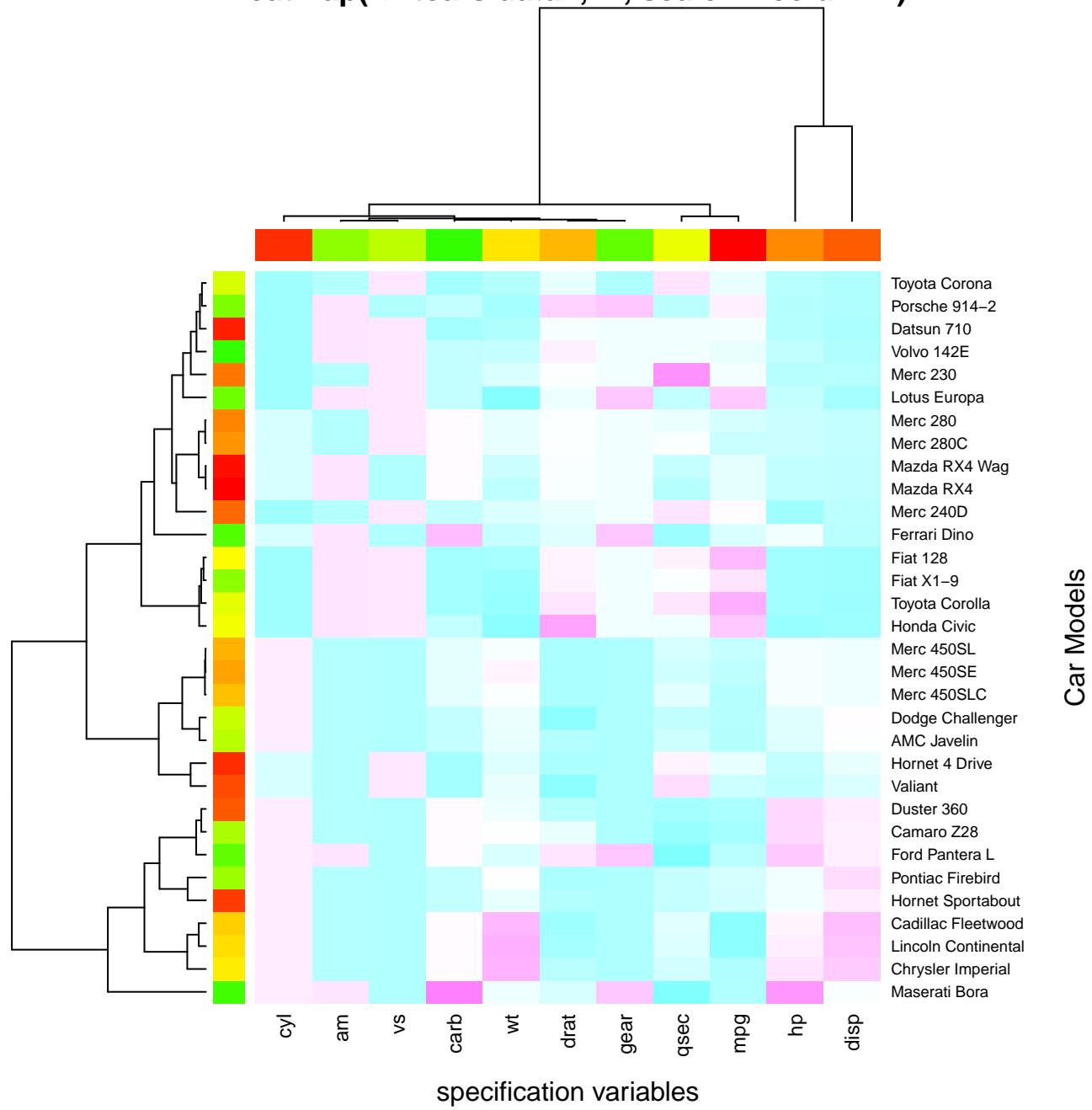
Series Ih



IBM: Bollinger Bars, Bands, Indicators and normalized and absolute Volume



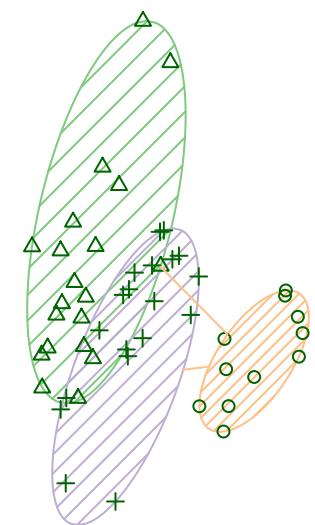
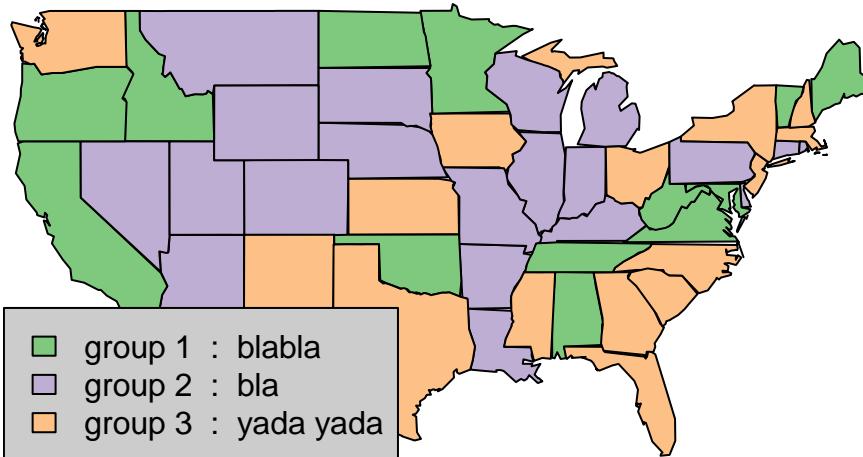
heatmap(<Mtcars data>, ..., scale = "column")



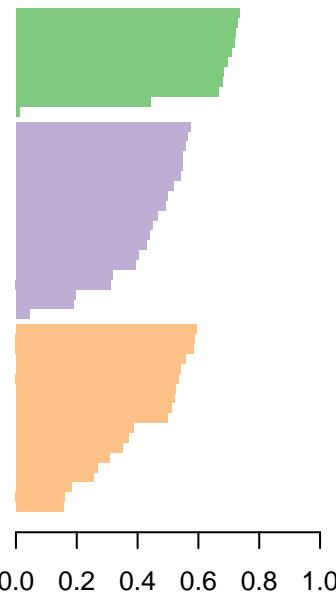
usplot(pam(x = x, k = 3))

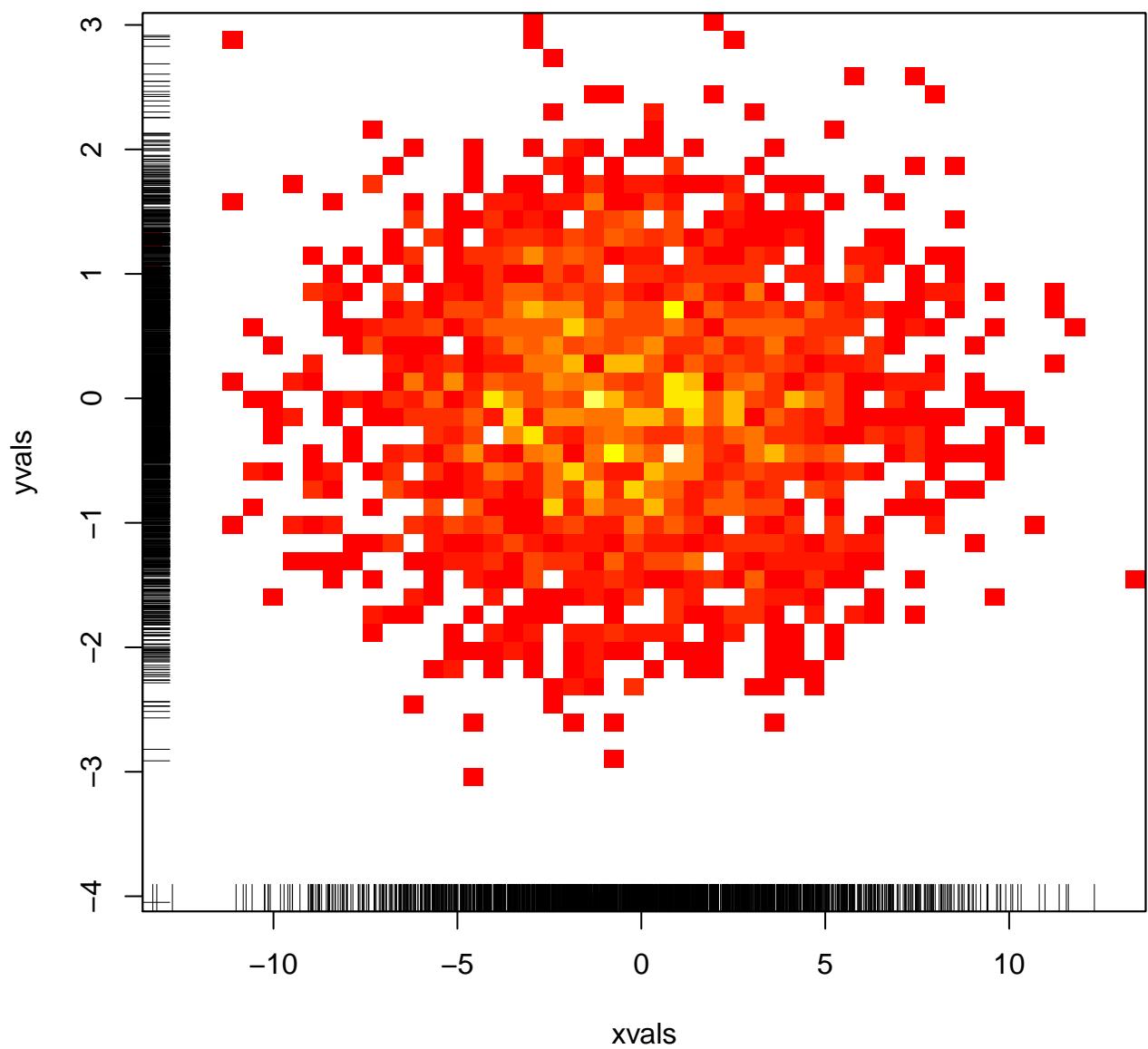
Cluster analysis on state.x77 data

variables : Illiteracy, Life Exp, Murder, HS Grad

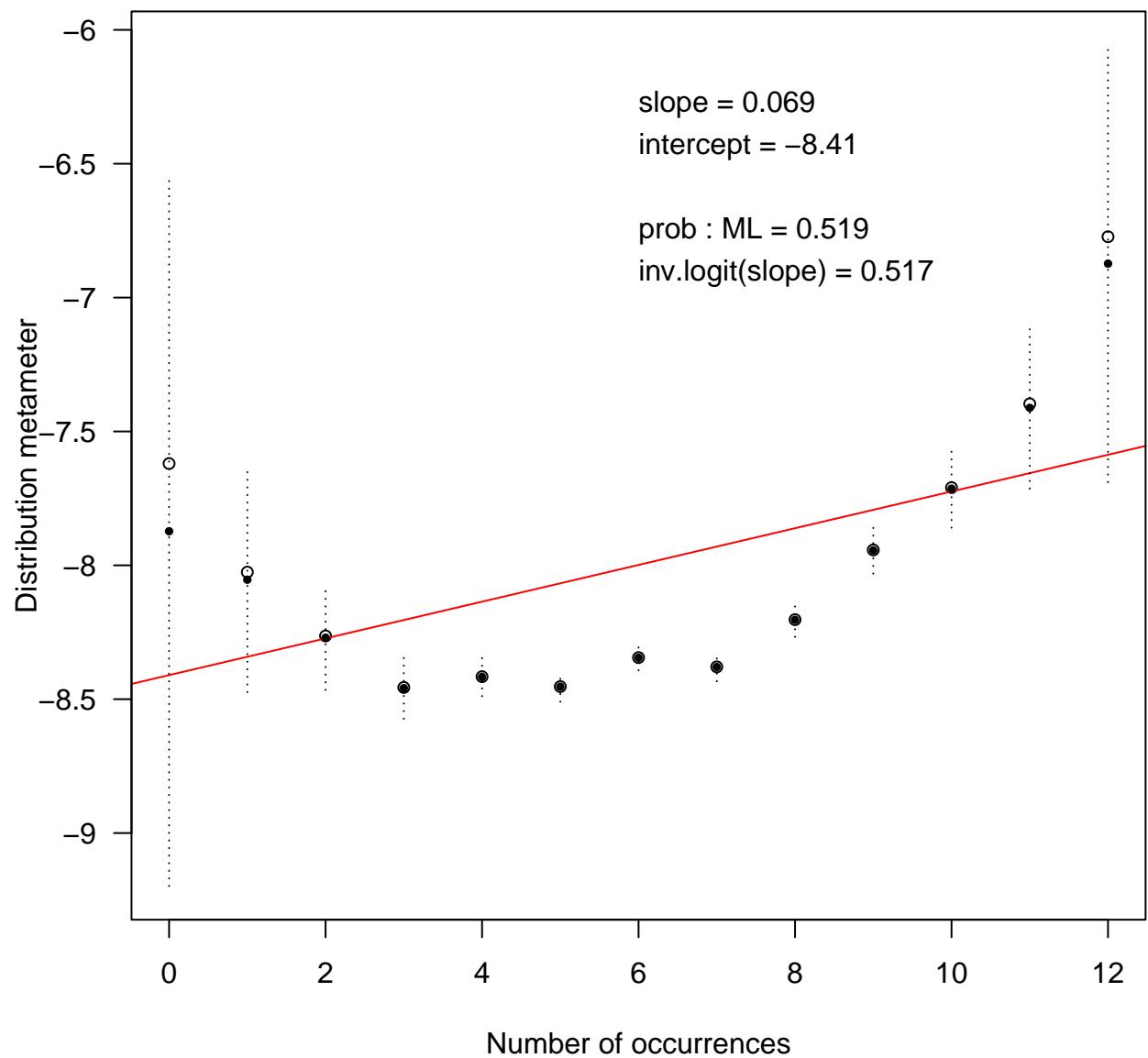


Silhouette plot of pam

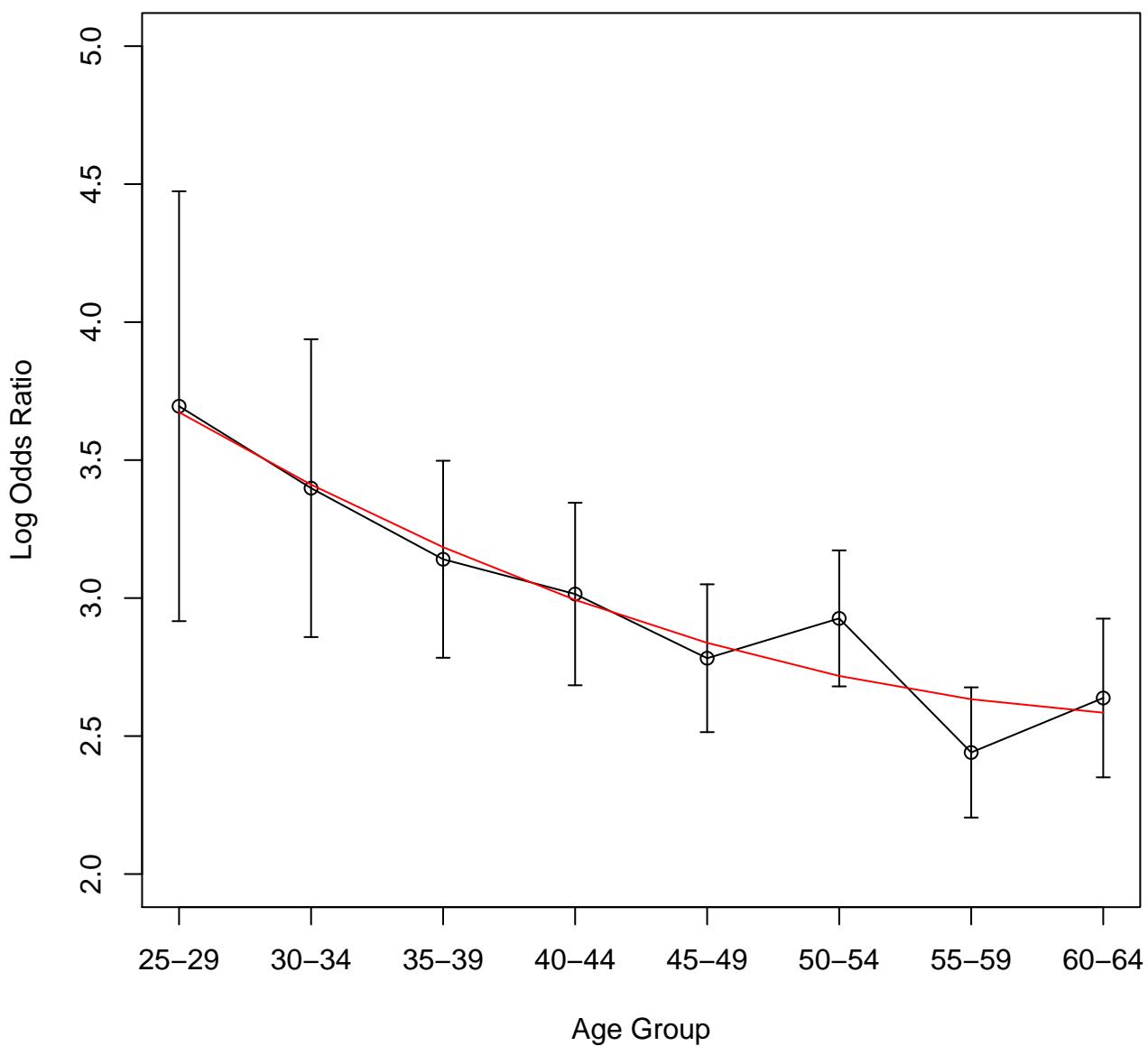




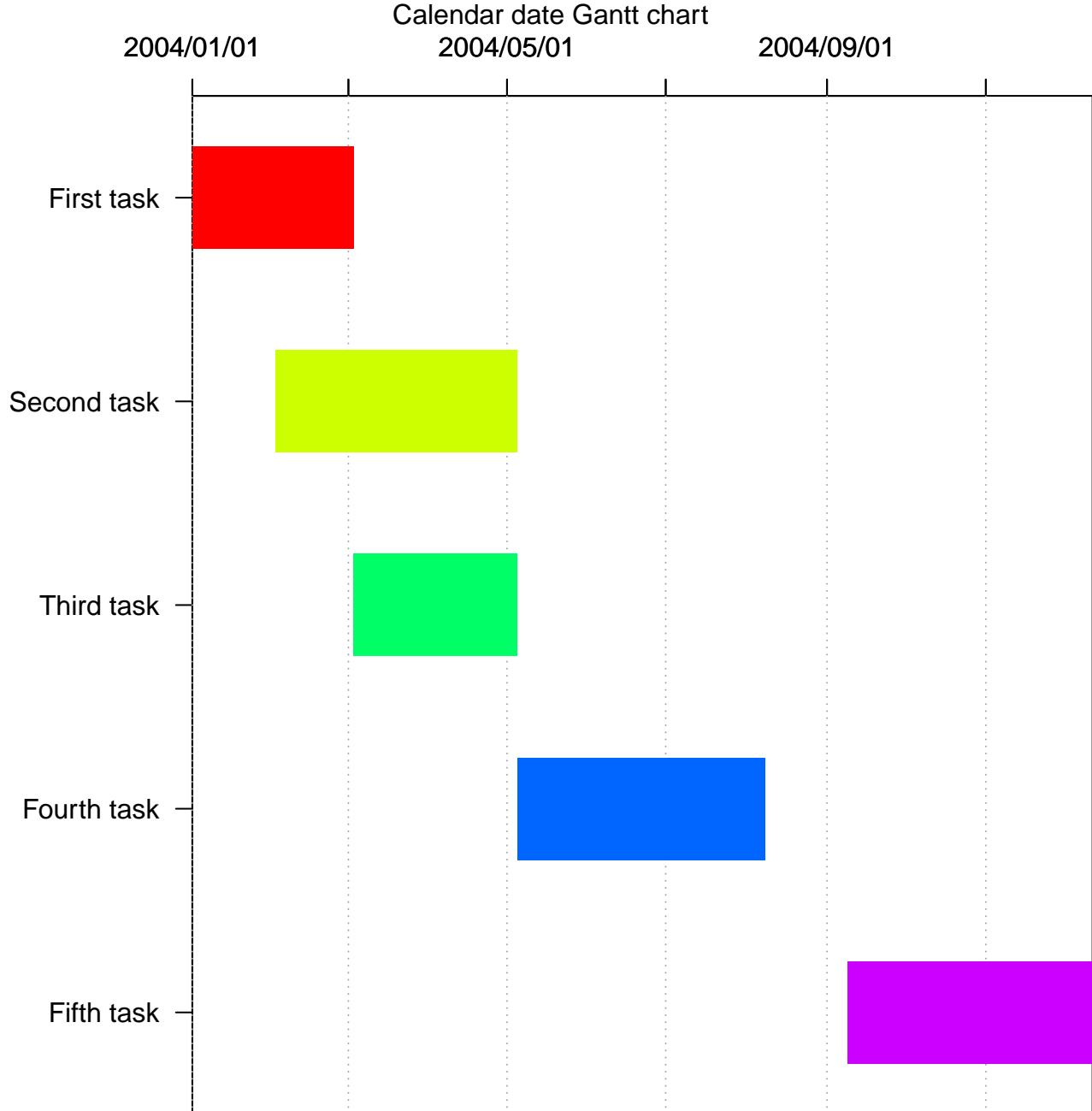
Binomialness plot



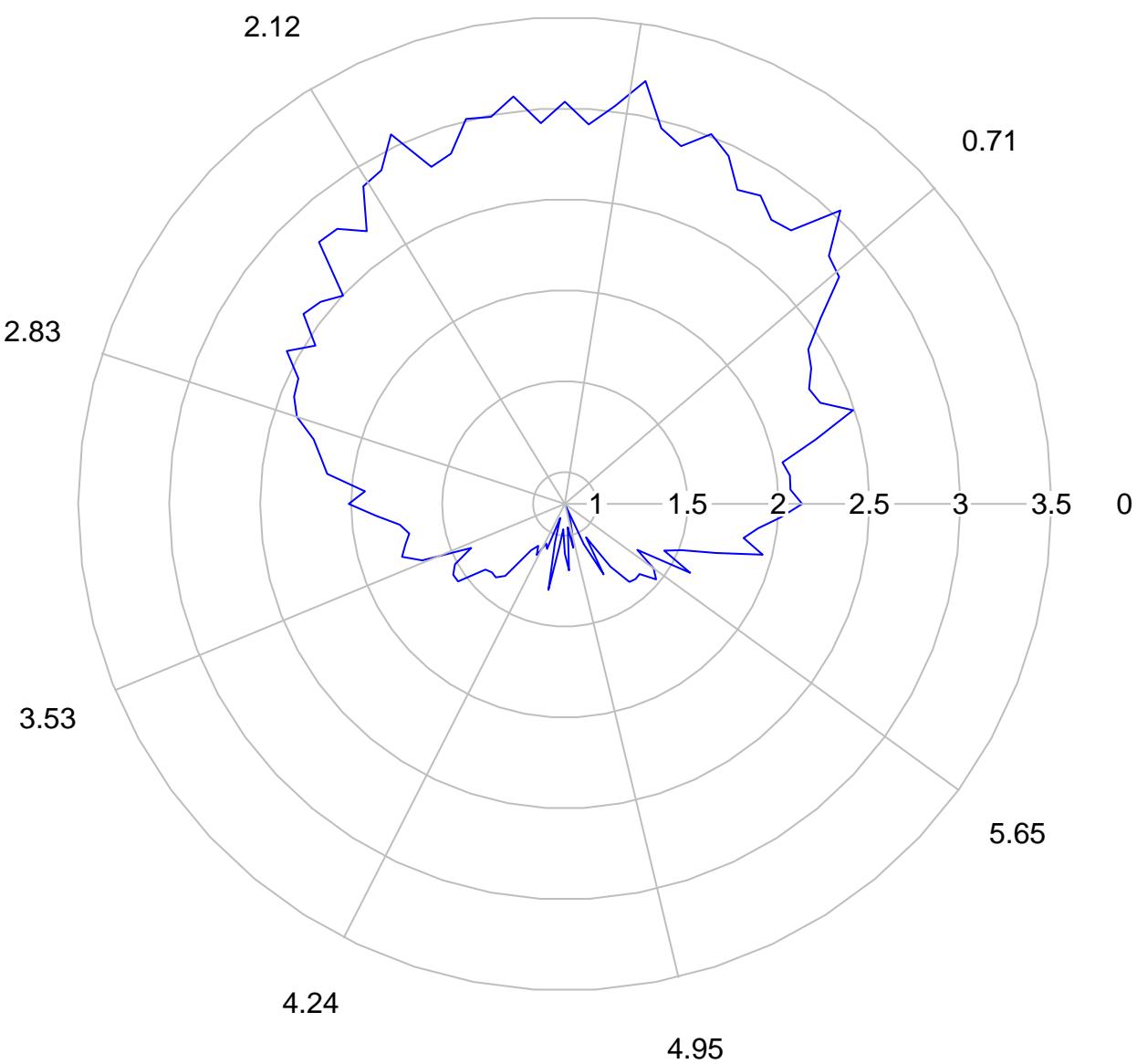
Breathelessness and Wheeze in Coal Miners

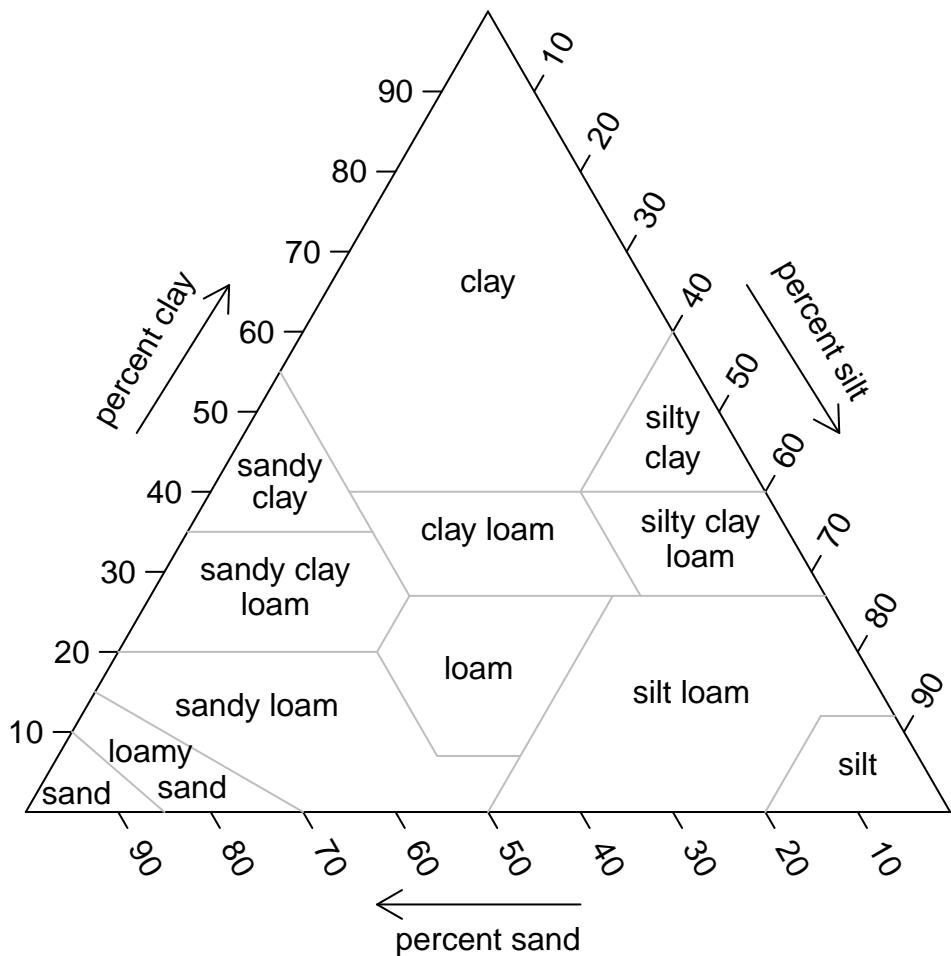


Calendar date Gantt chart

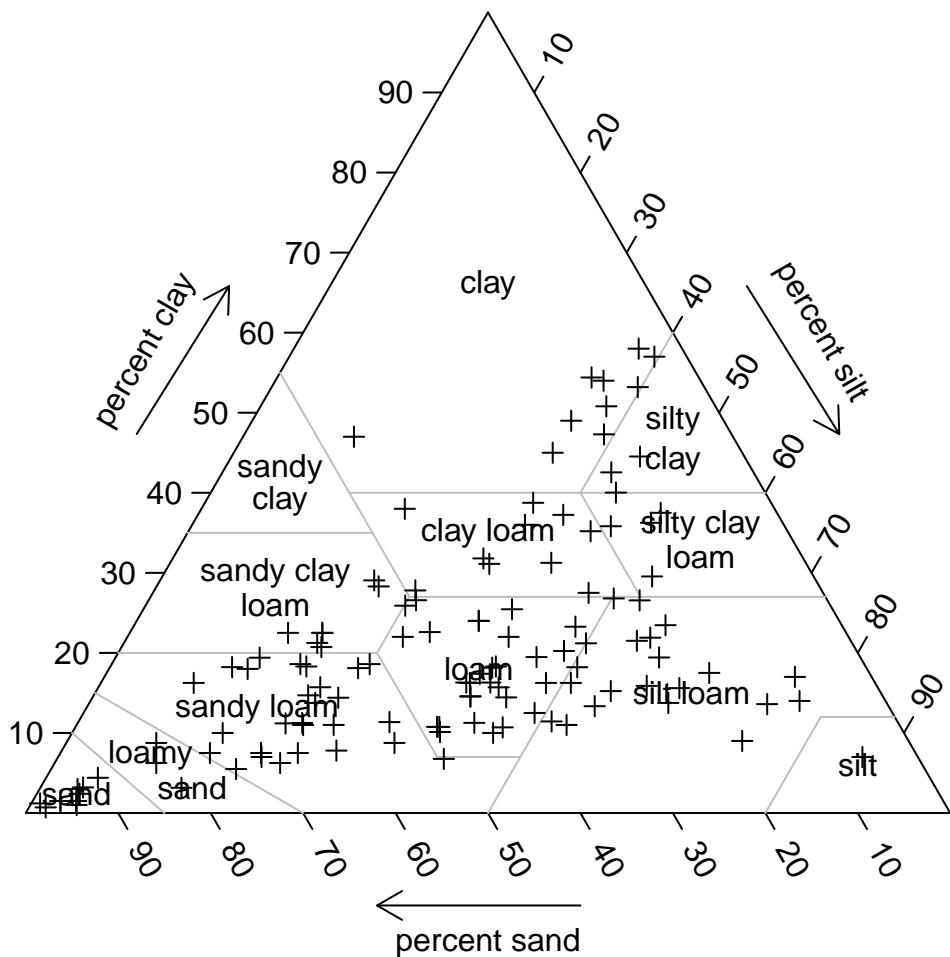


Test Polygon

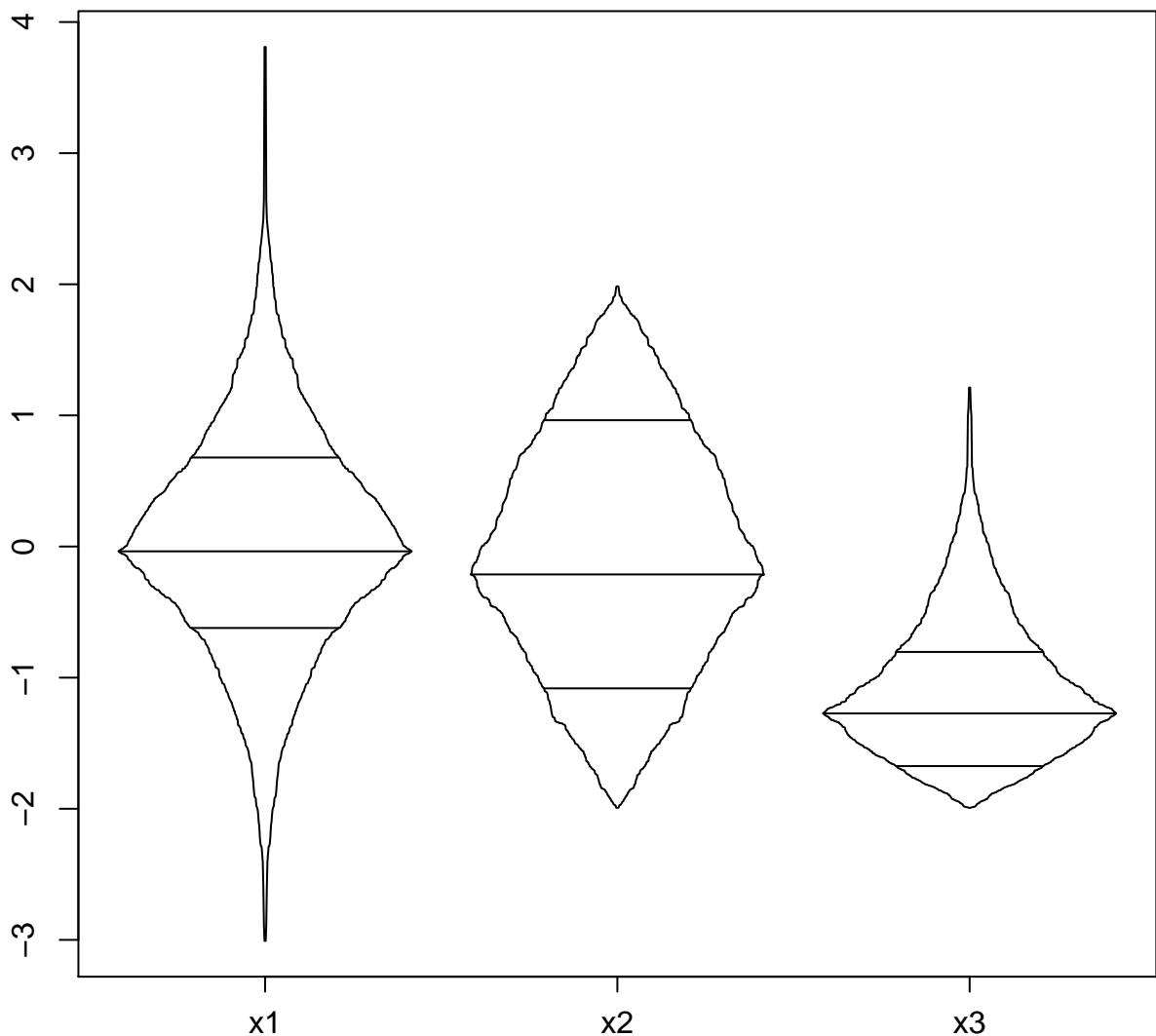




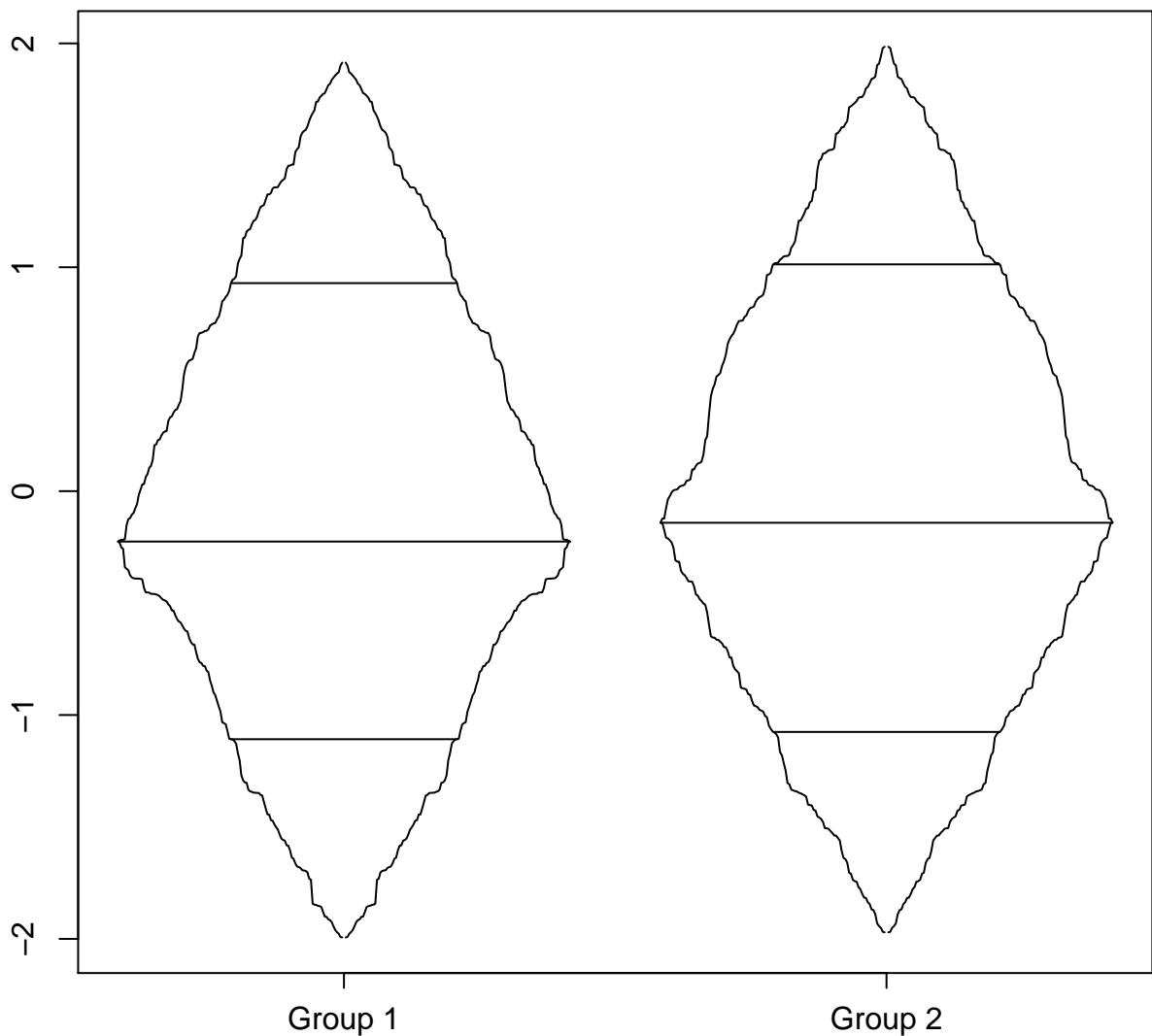
SOIL TEXTURE PLOT

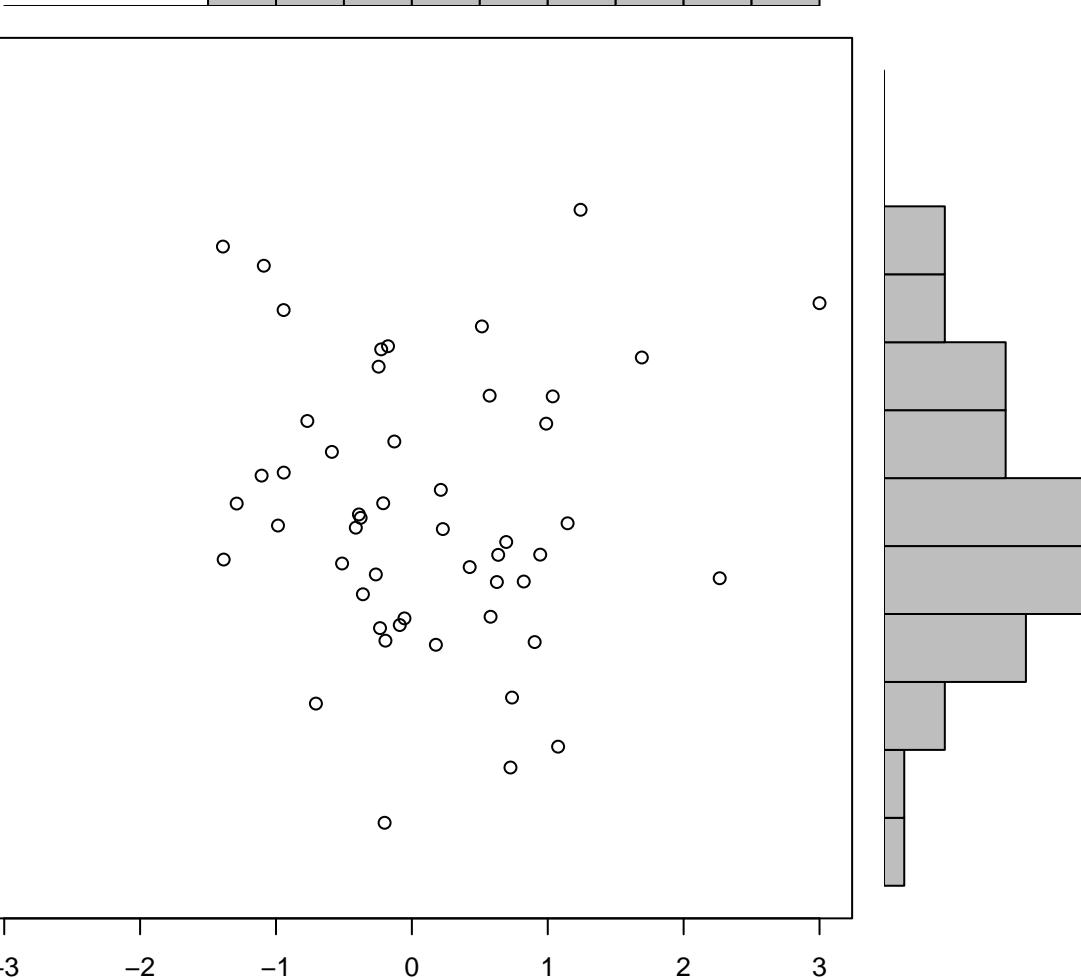


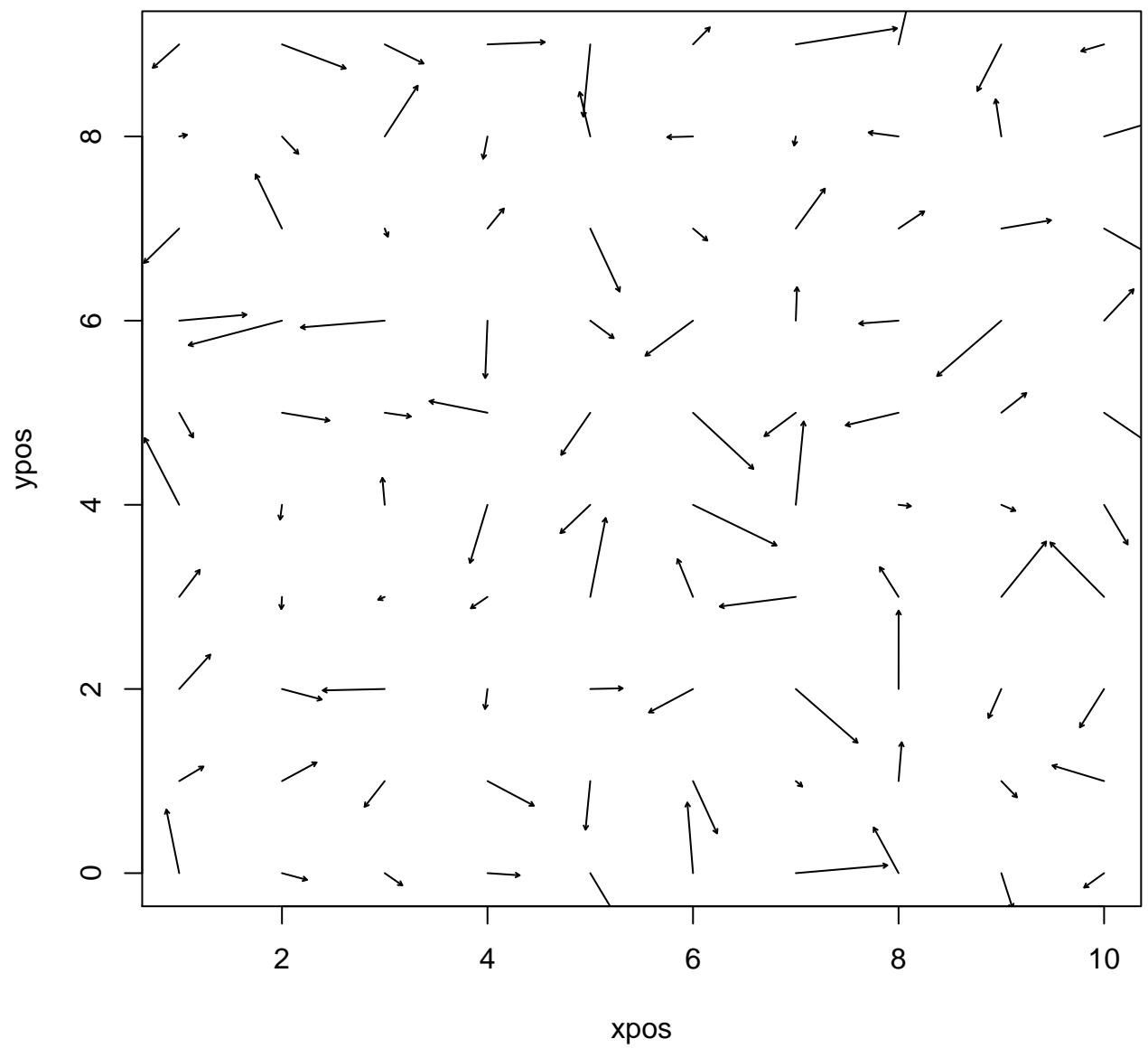
Box-Percentile Plot



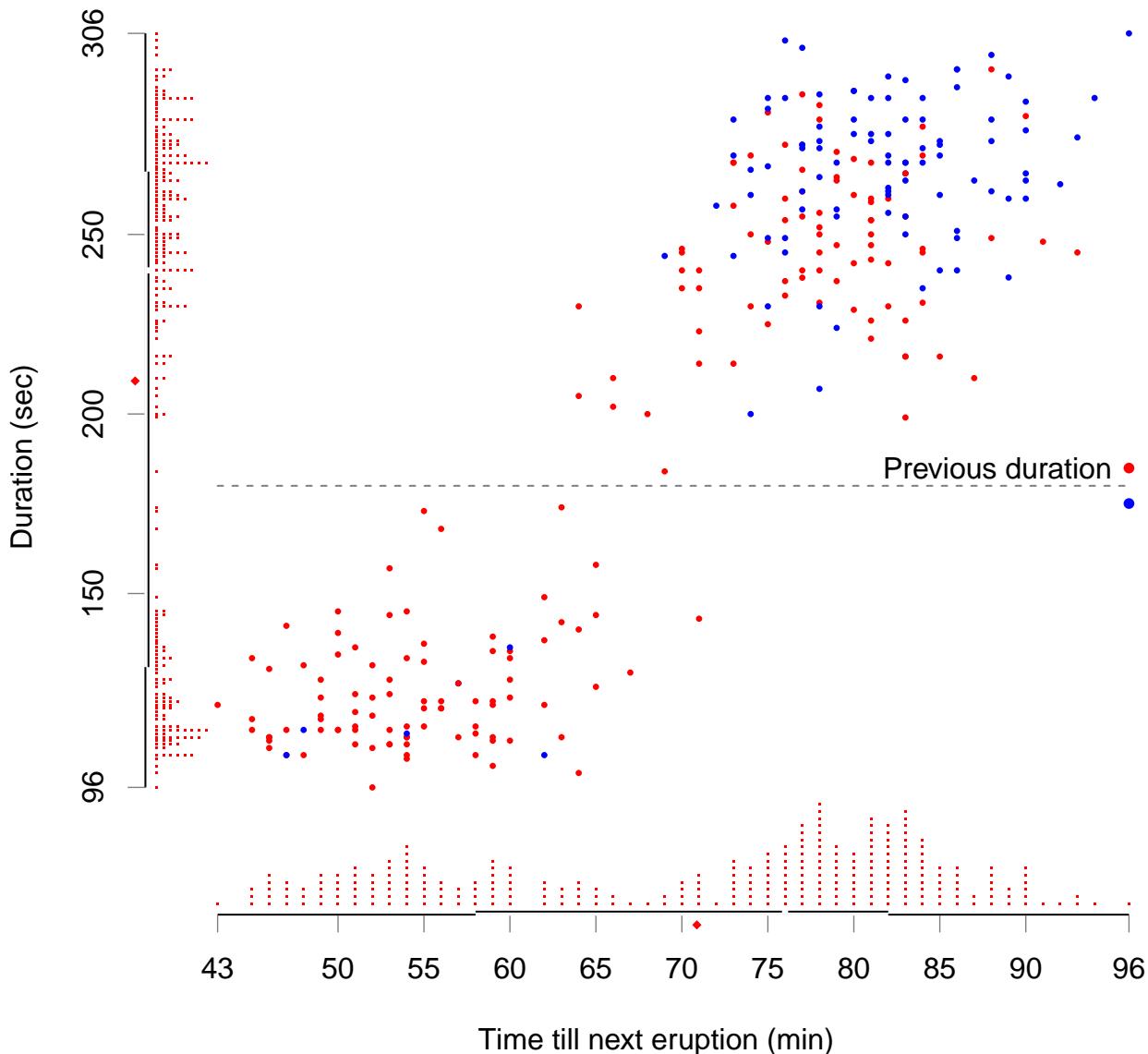
Box-Percentile Plot

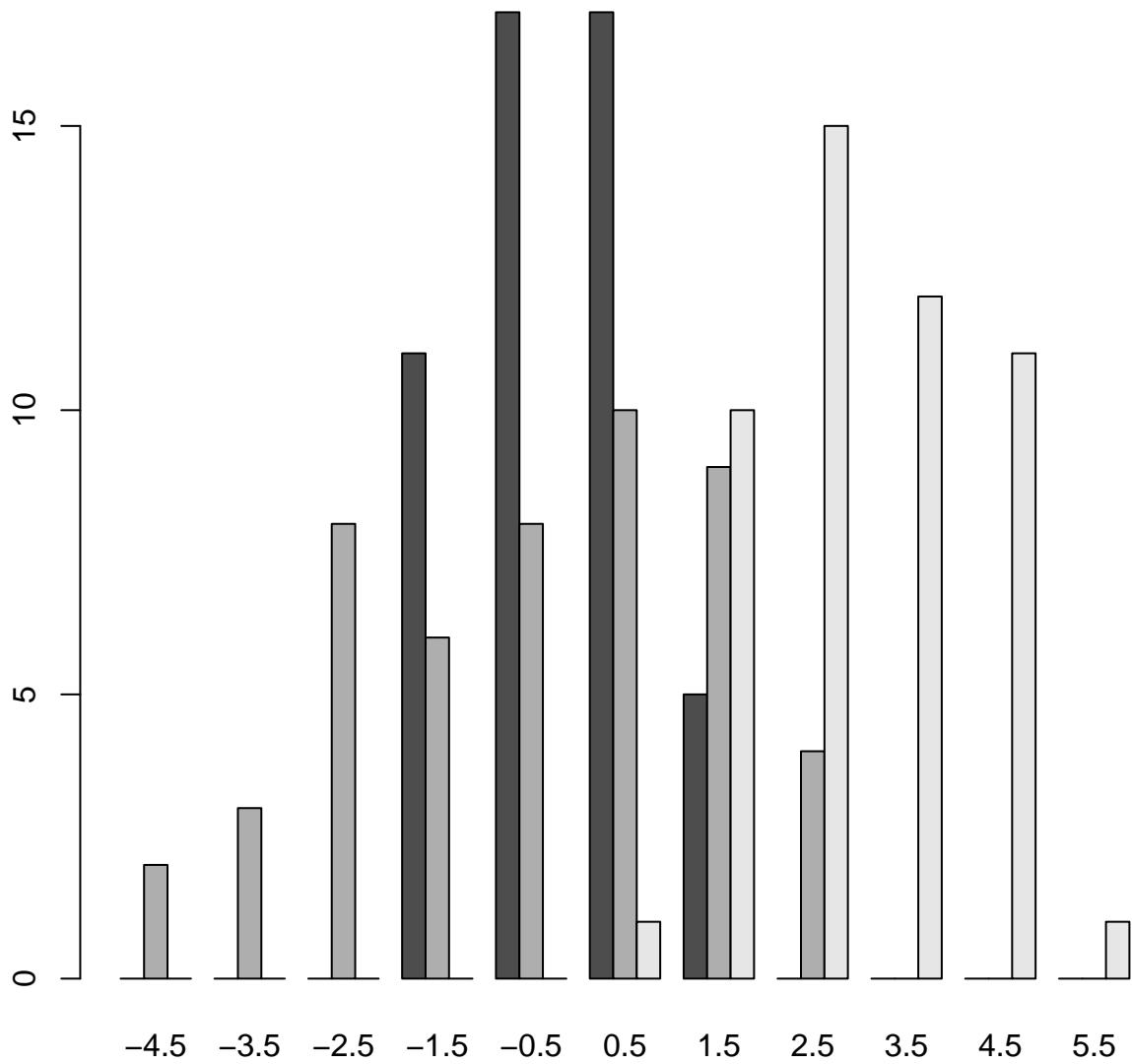


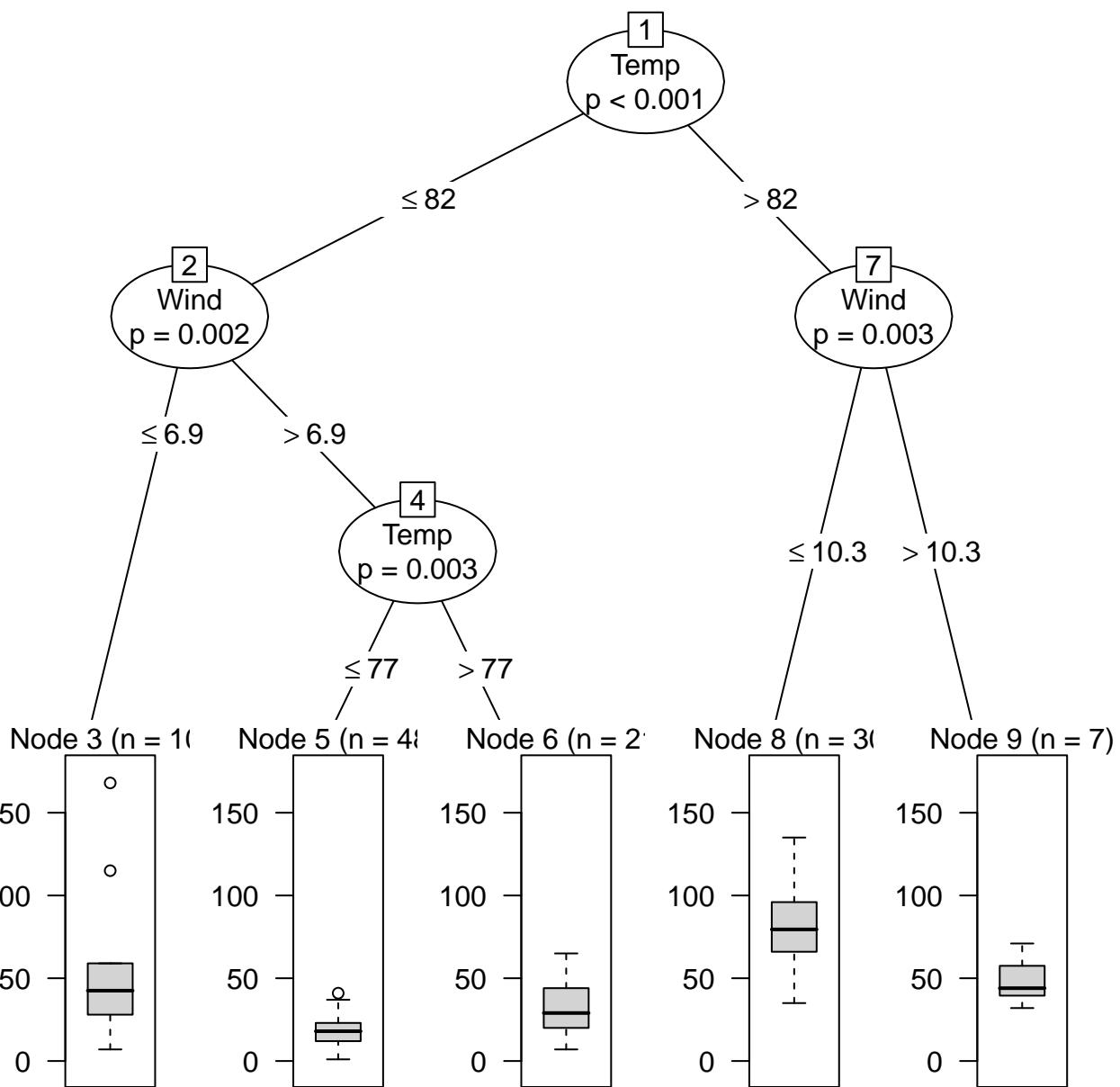


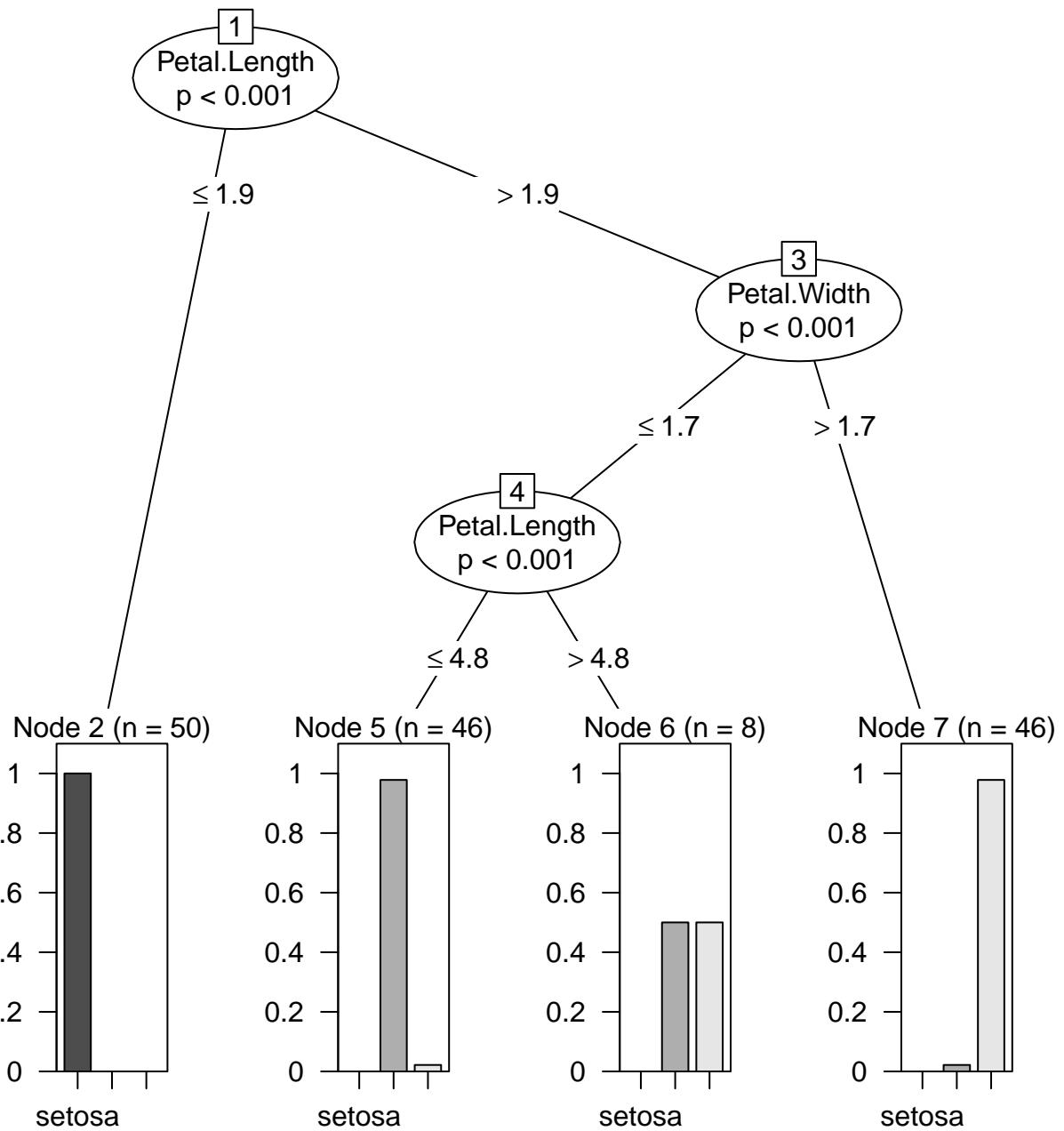


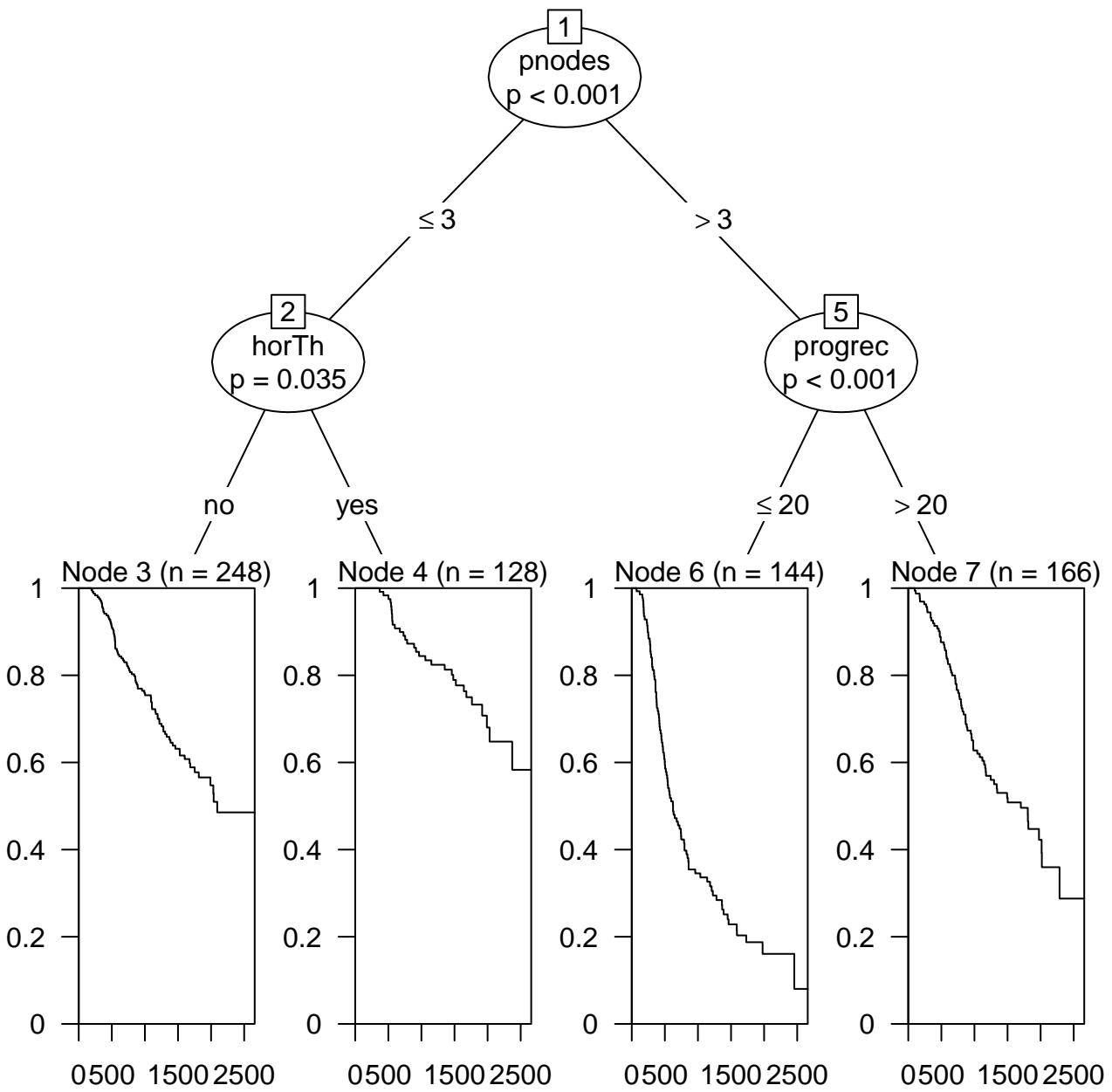
Old Faithful Eruptions (271 samples)





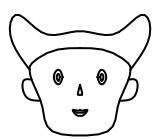






random faces

1



2



3



4



5



6



7



8



9



10



11



12



13



14



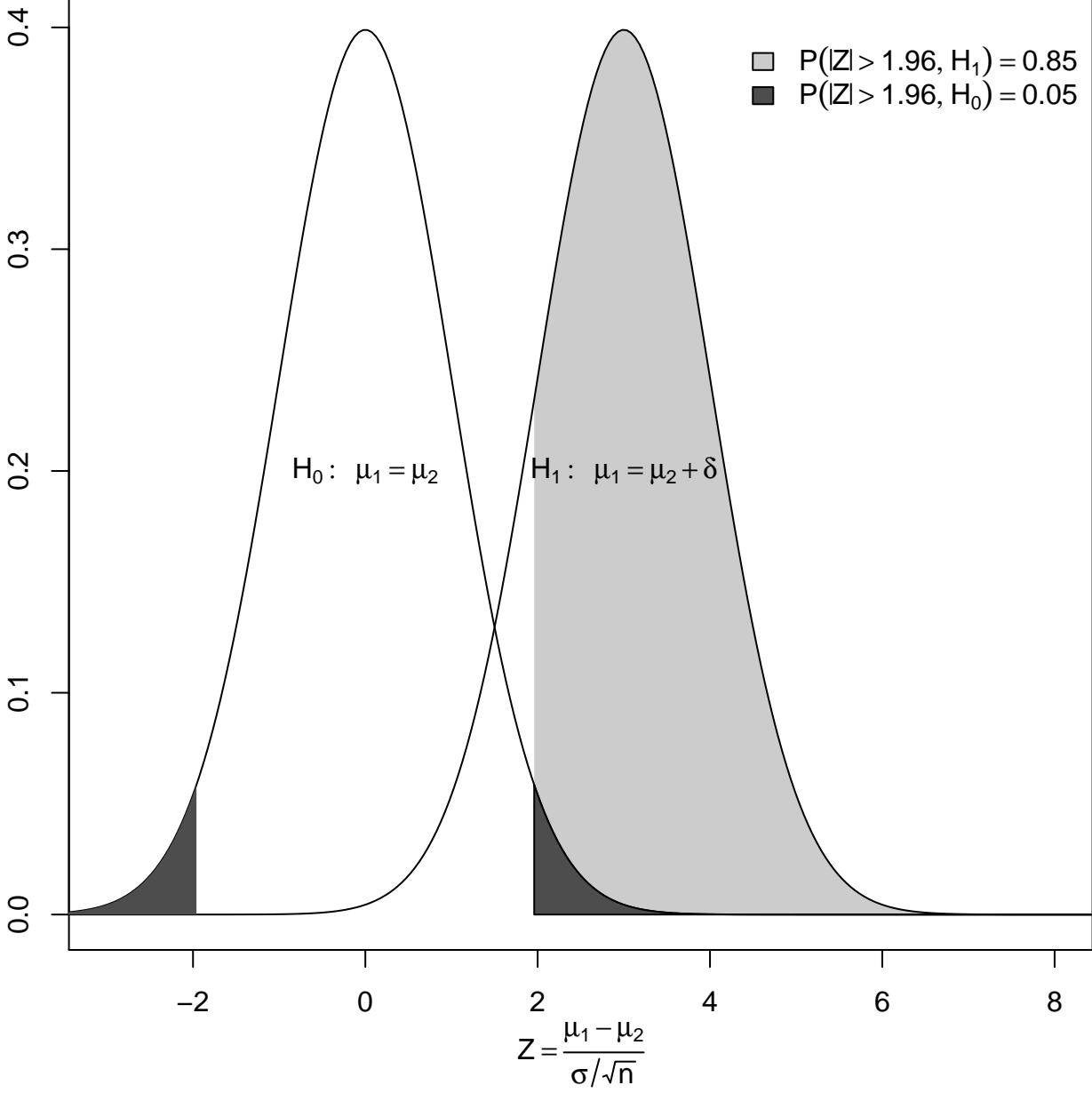
15



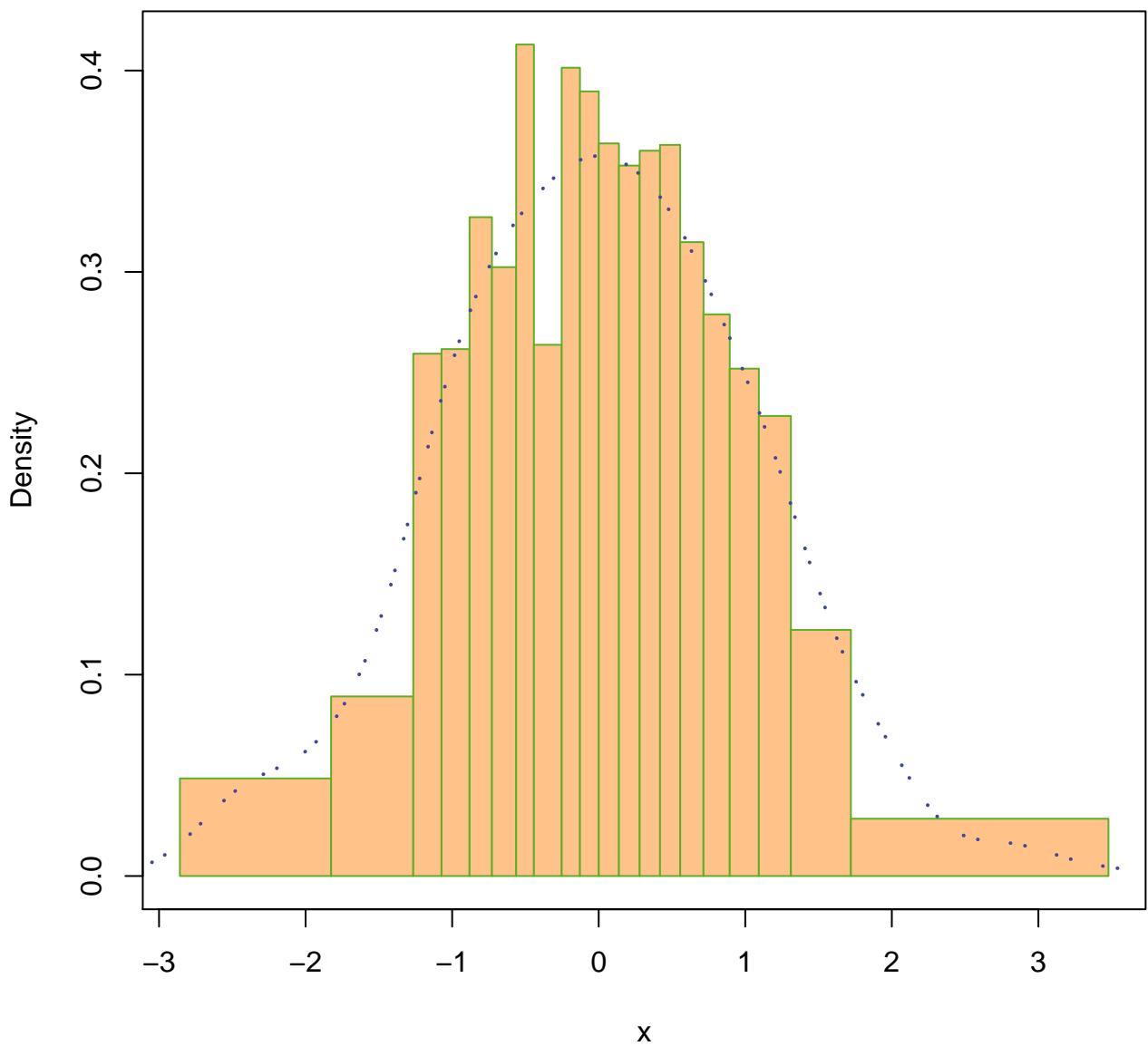
16



Density

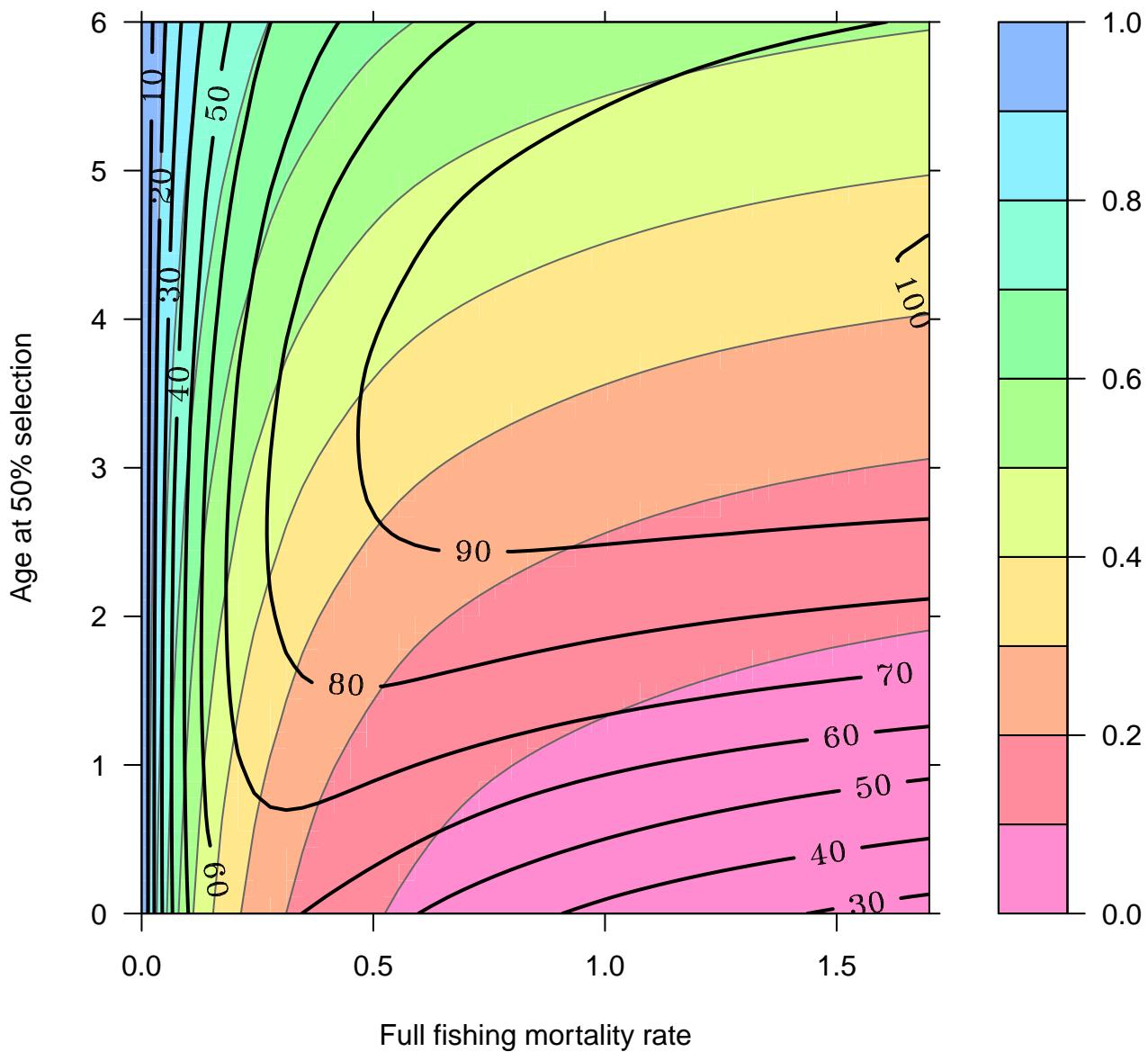


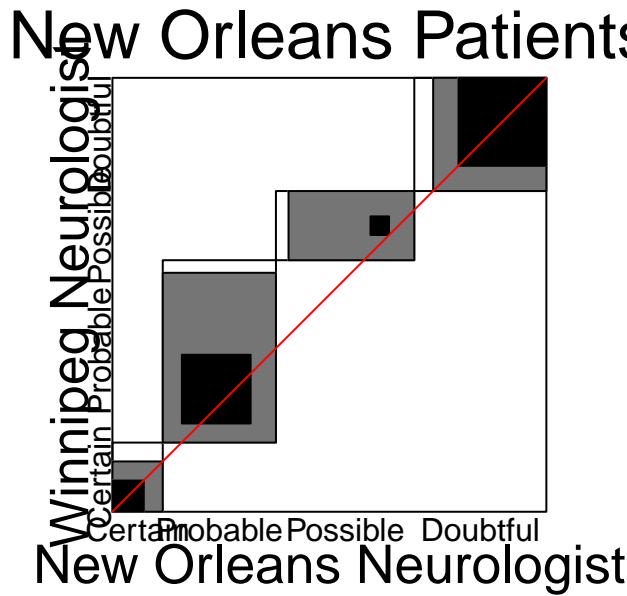
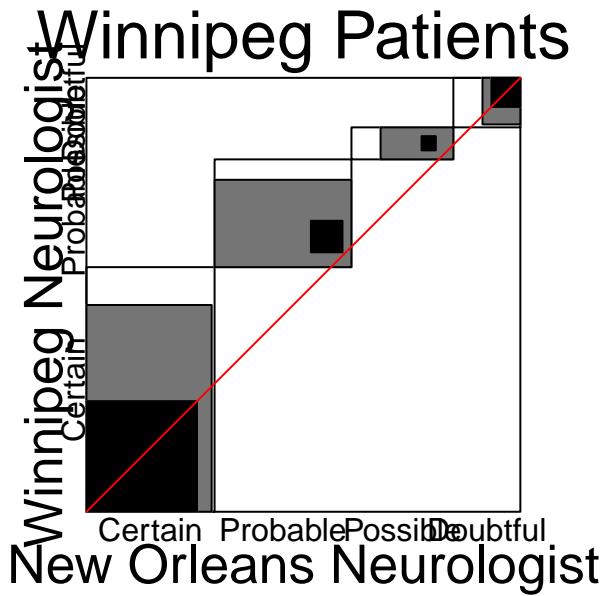
Histogram with equal counts

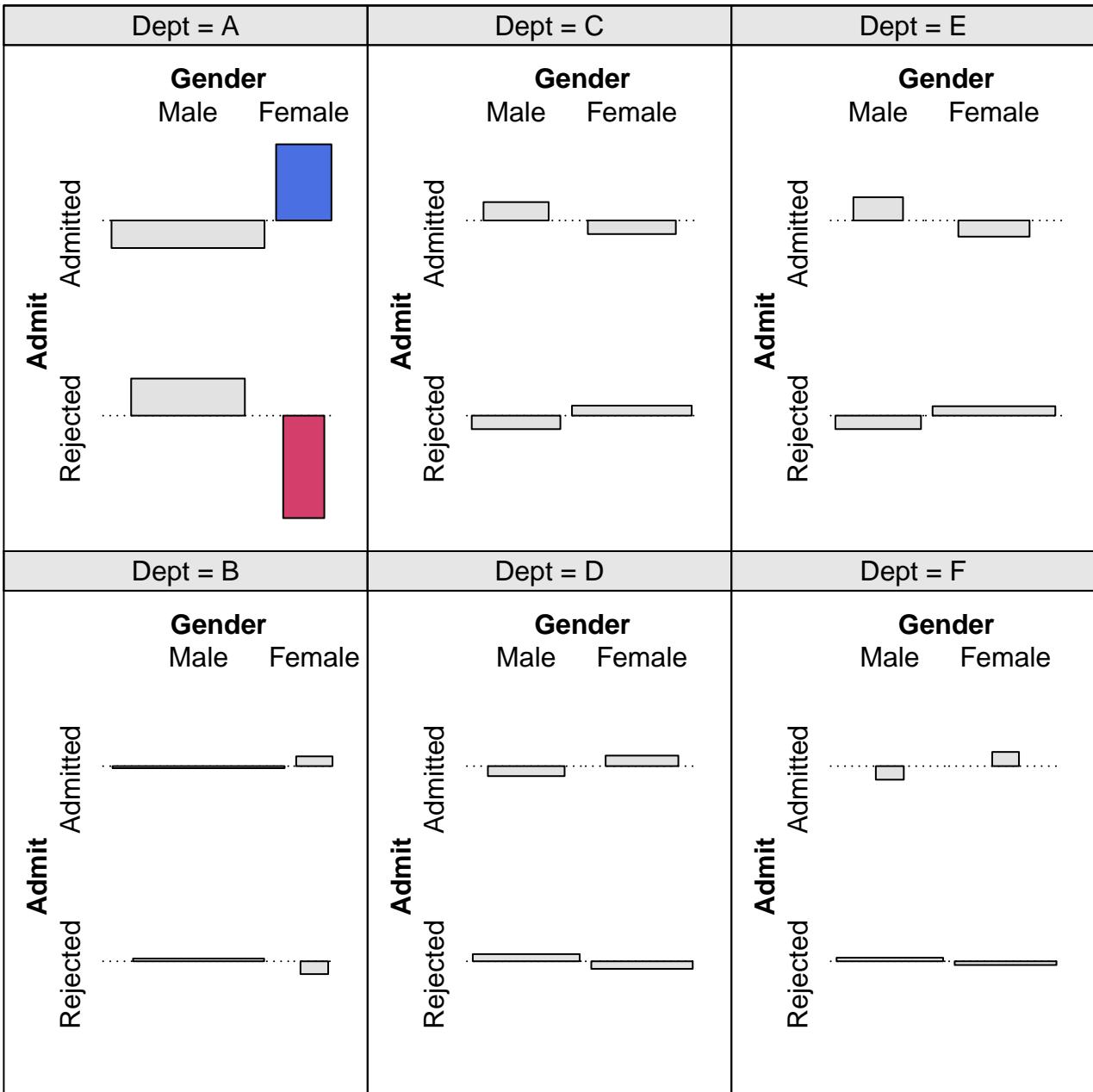


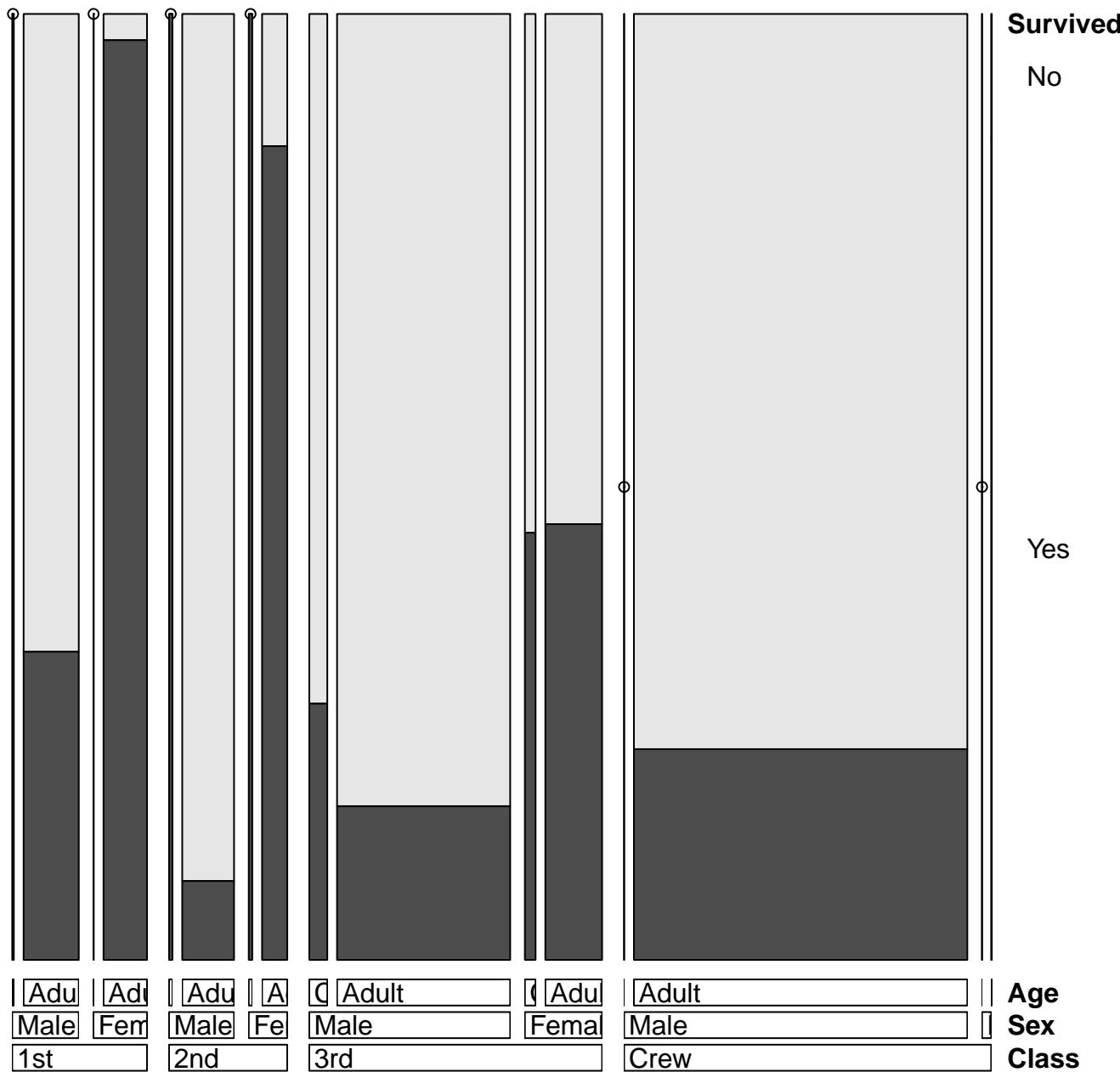
Black Sea Bass
Colors = values of SPR
Black contours = values of YPR

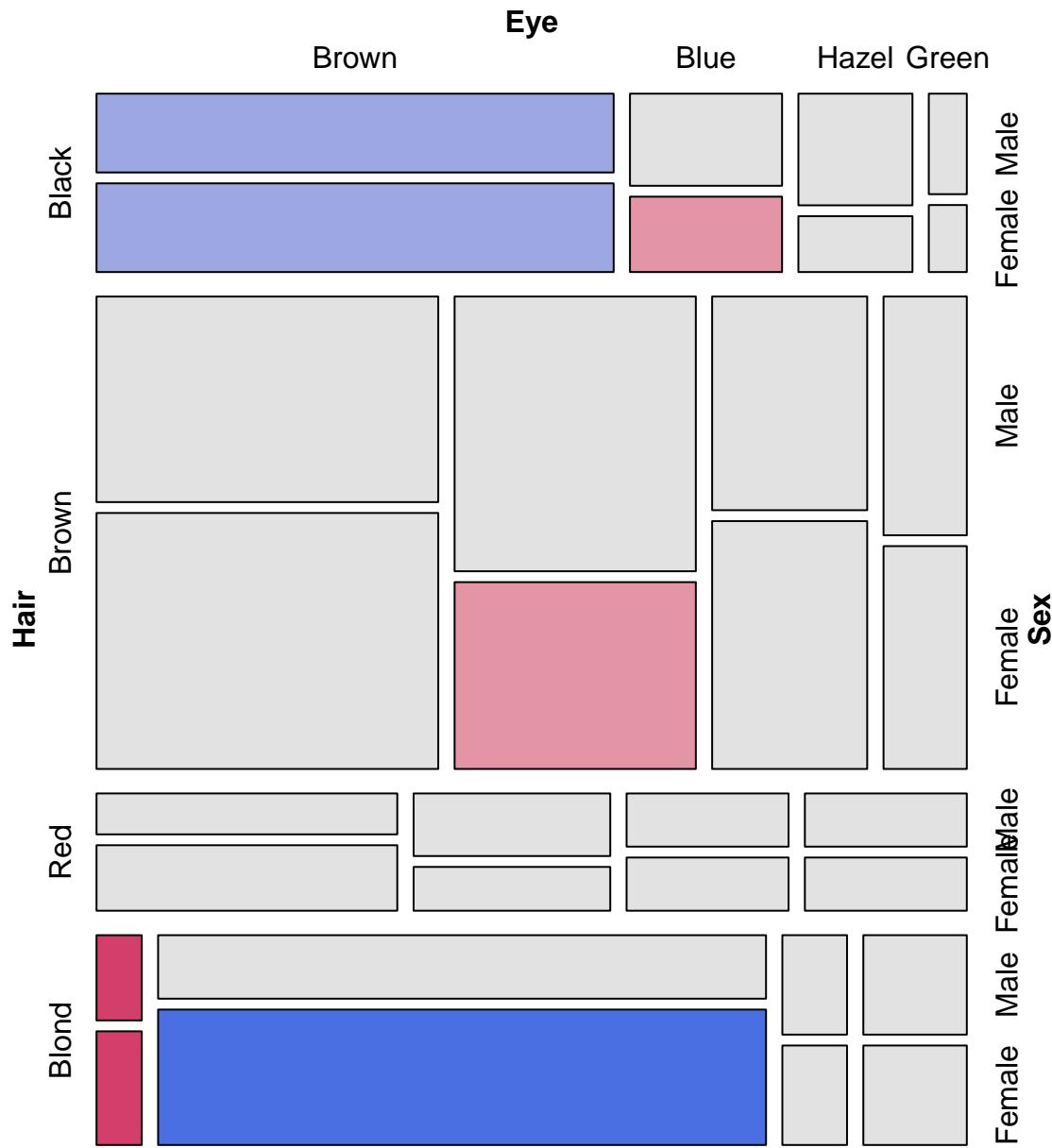
SPR











Pearson
residuals:

8.02

4.00

2.00

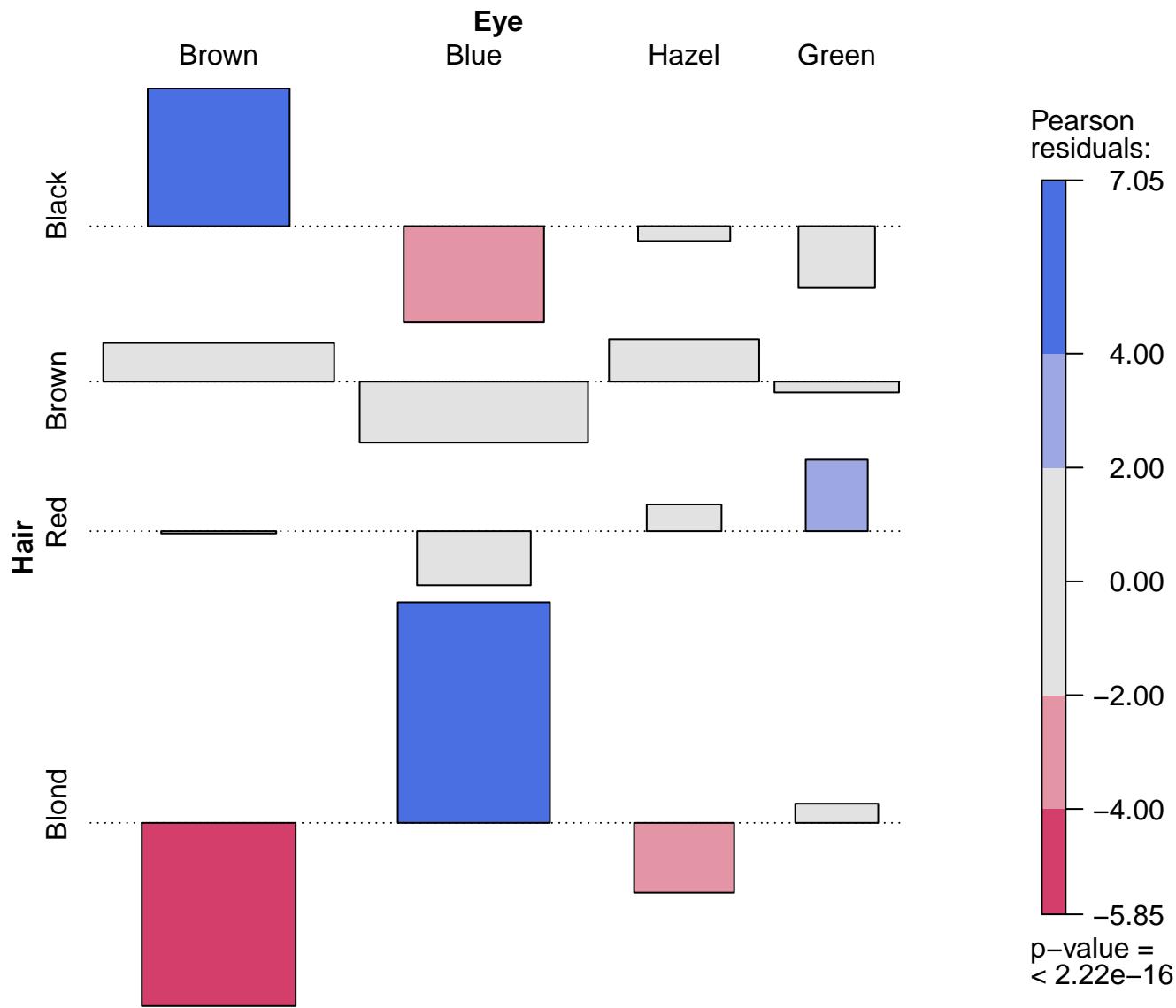
0.00

-2.00

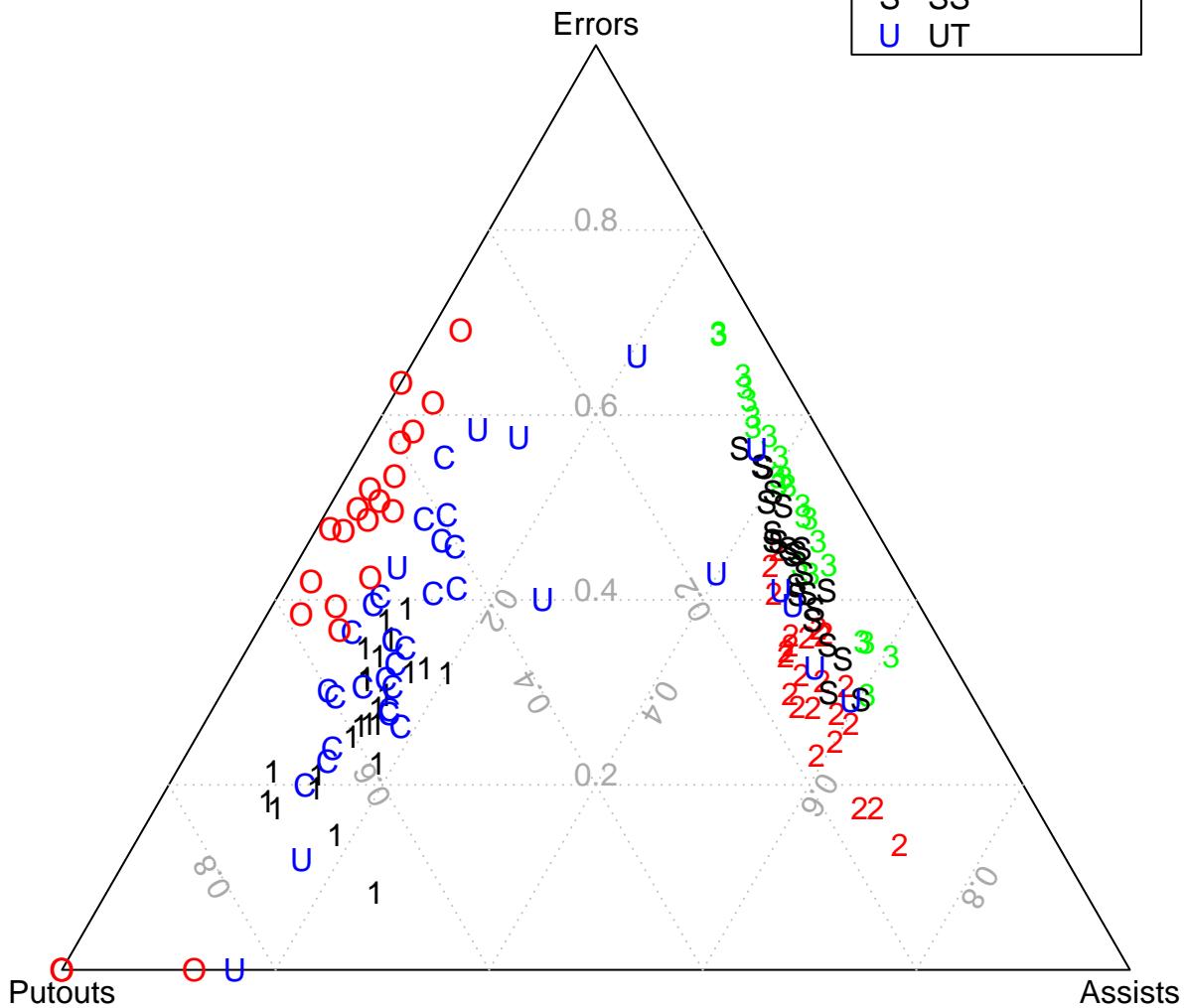
-4.19

p-value =
 $< 2.22e-16$

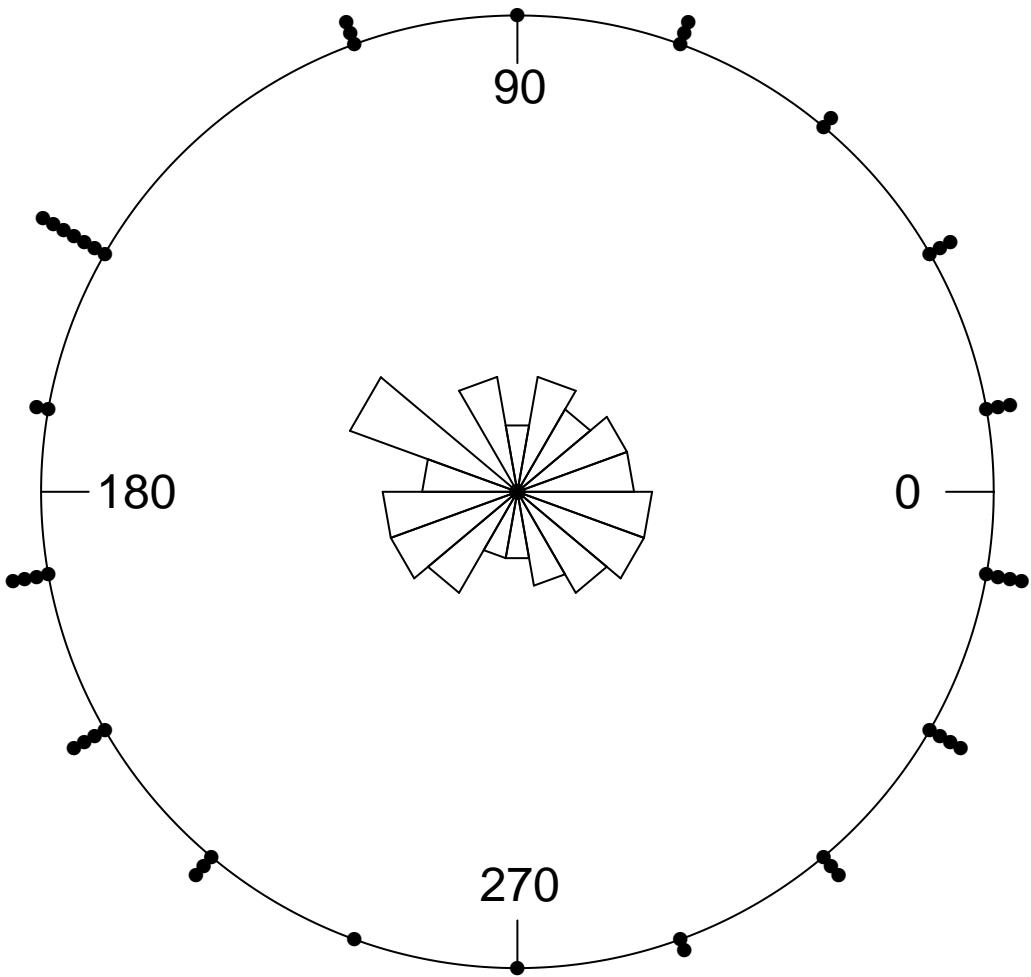
Relation between hair and eye color

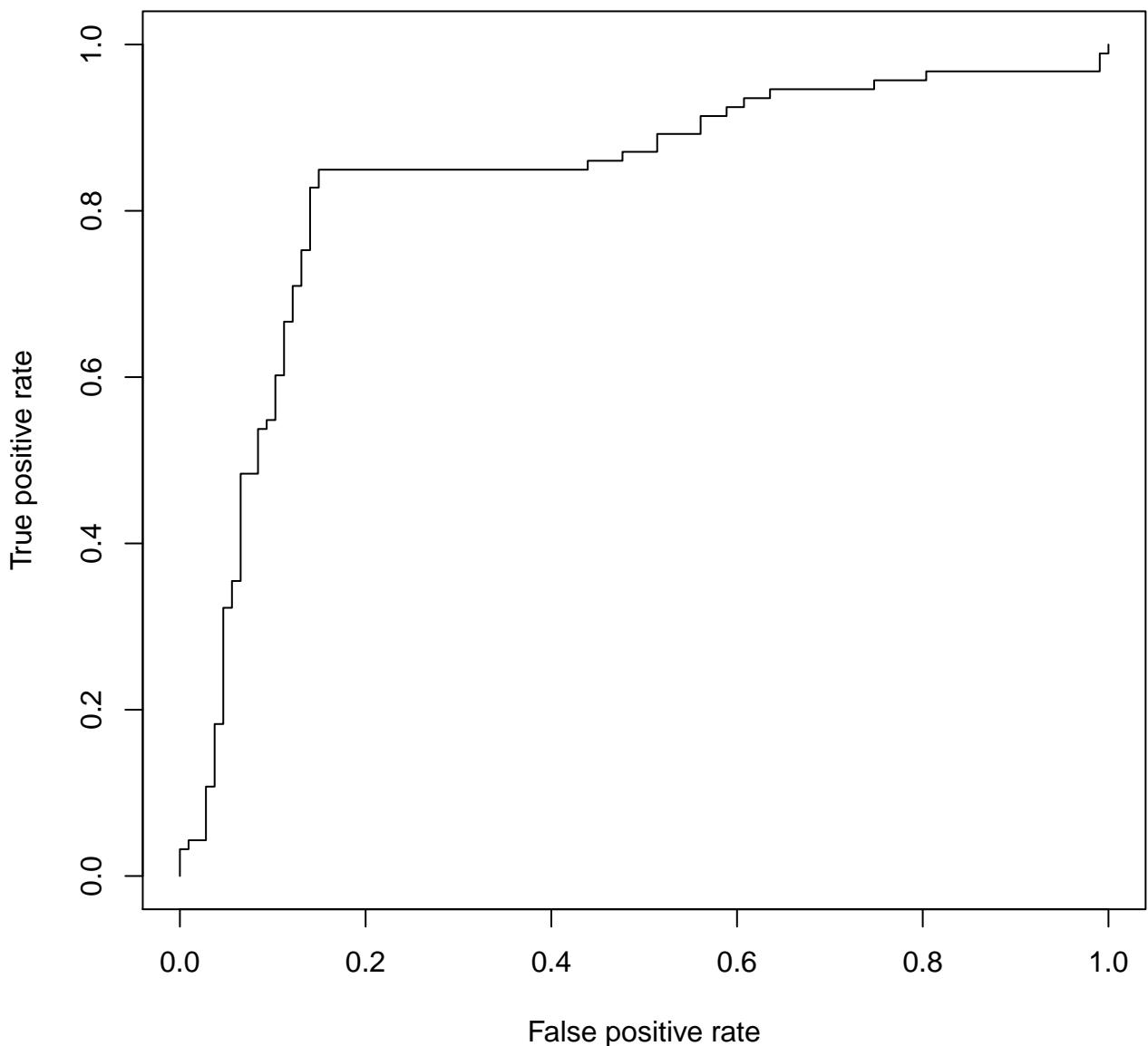


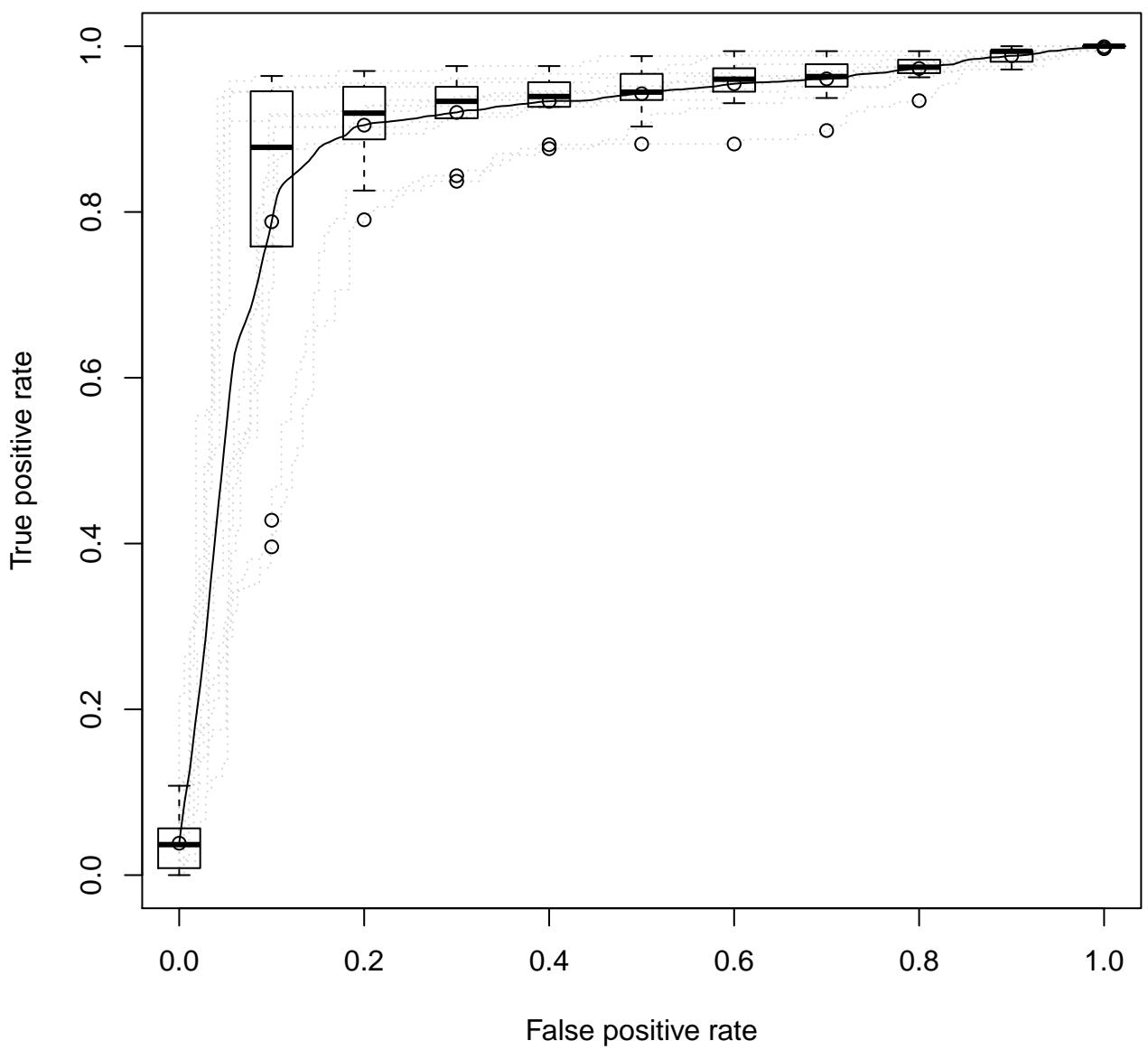
POSITION(S)



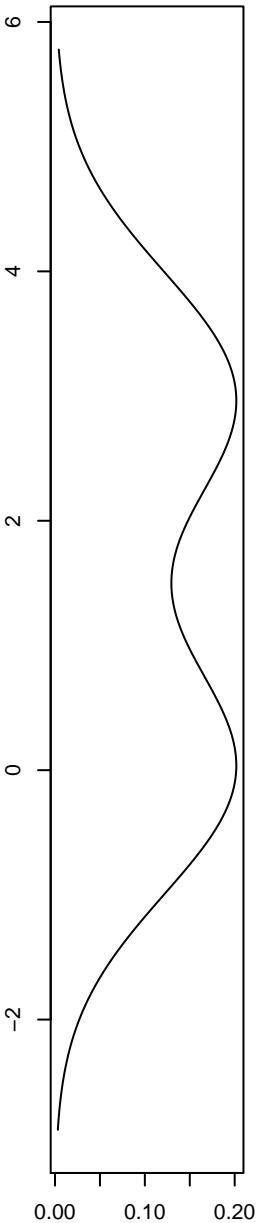
Stacked Points



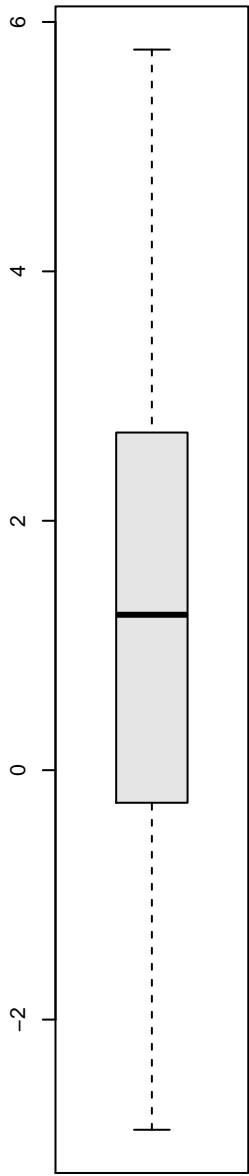




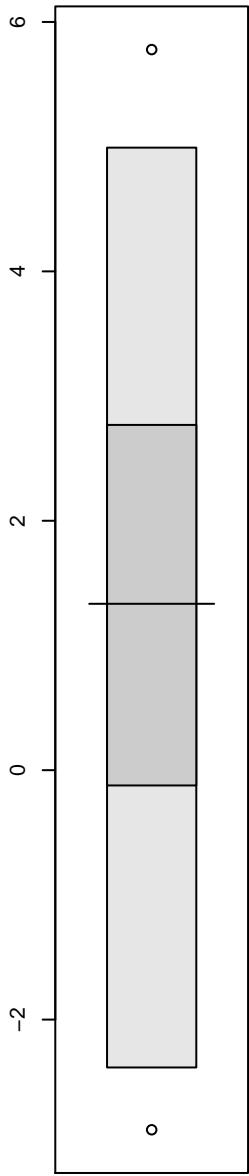
**Underlying
density**



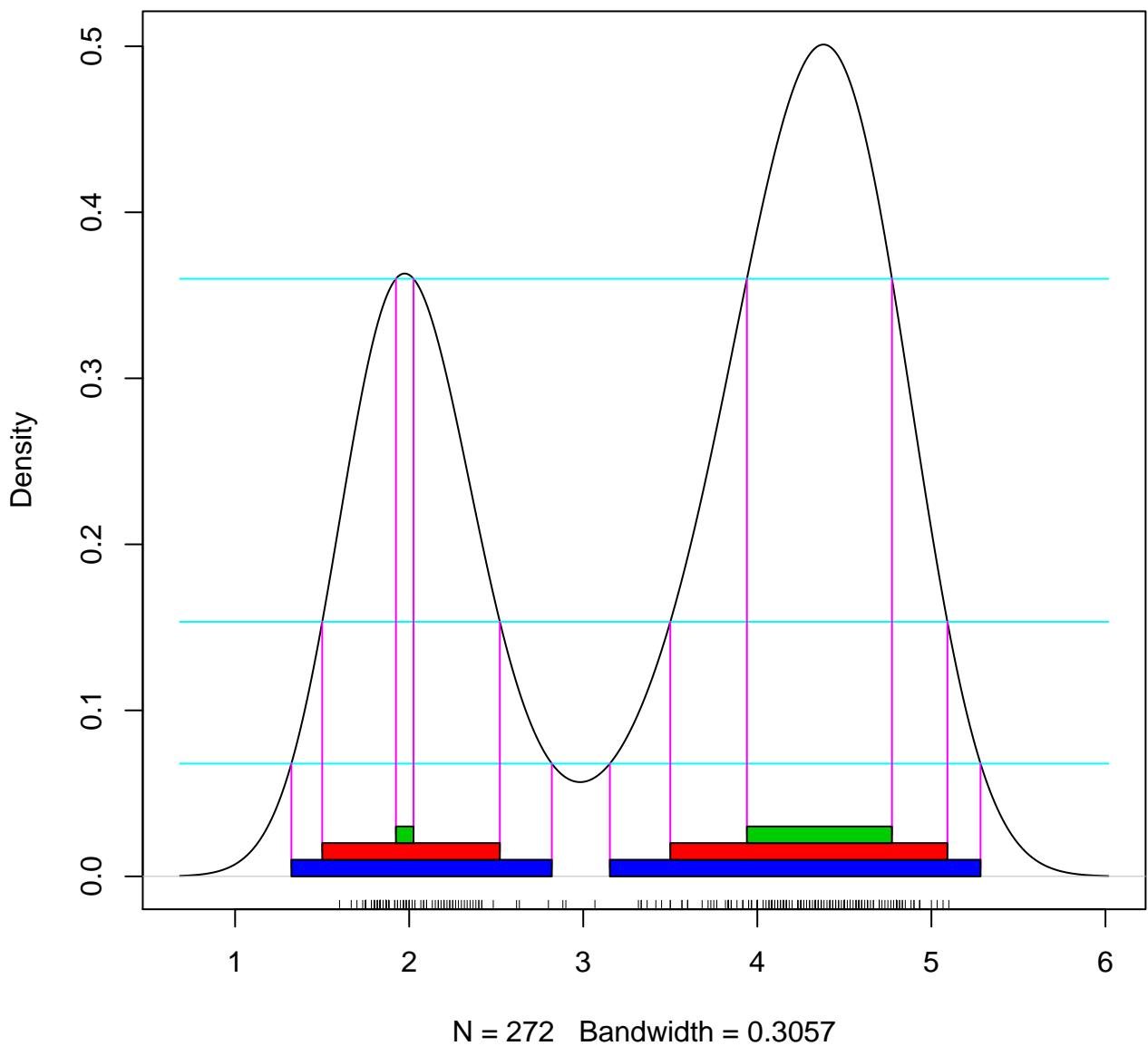
**standard
boxplot**

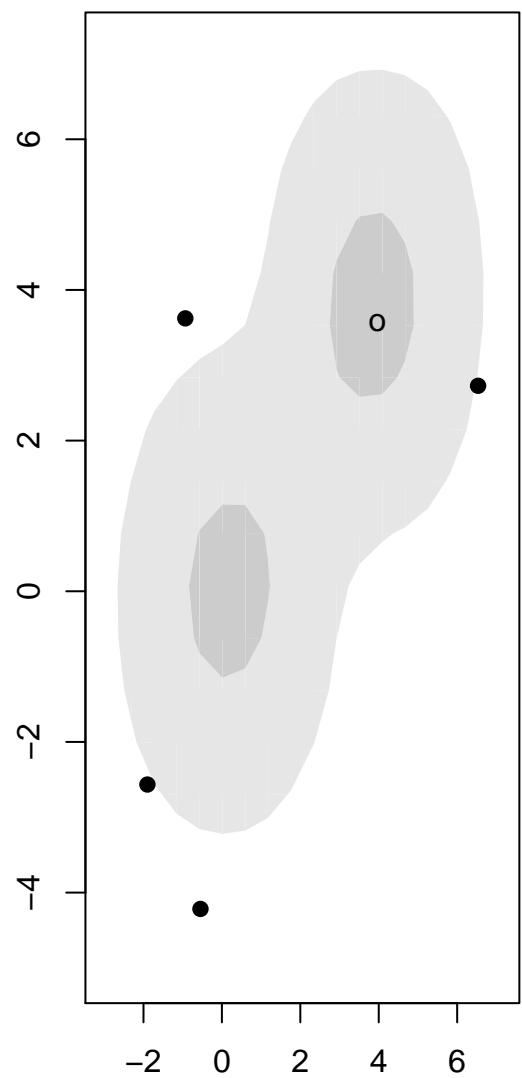
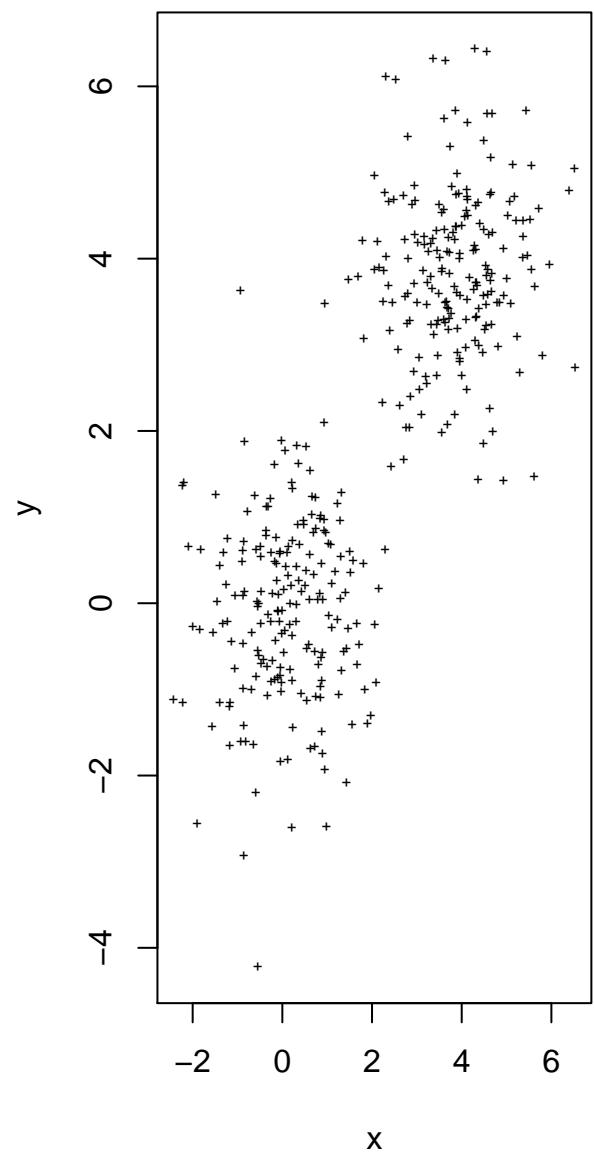


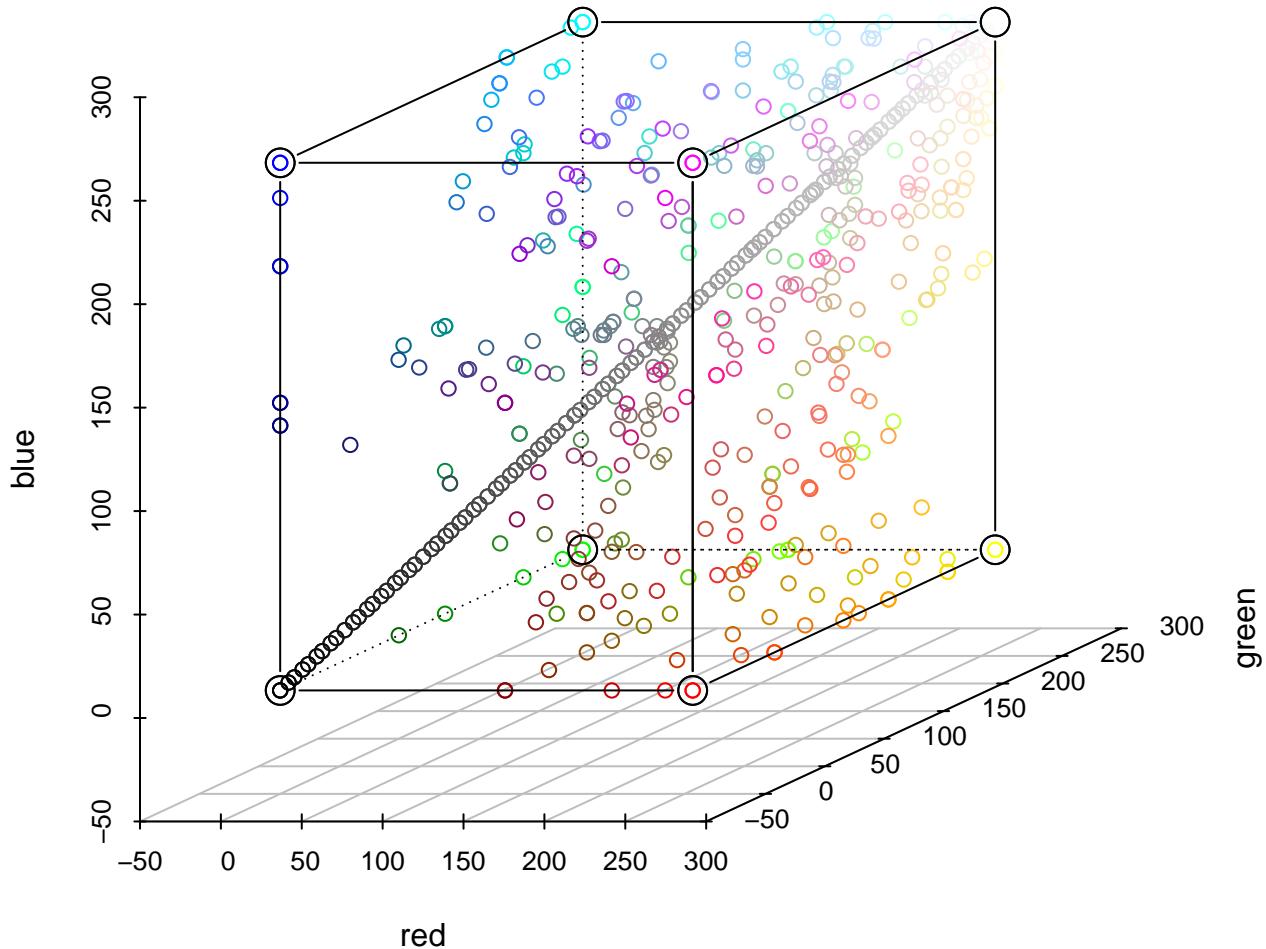
**HDR
boxplot**

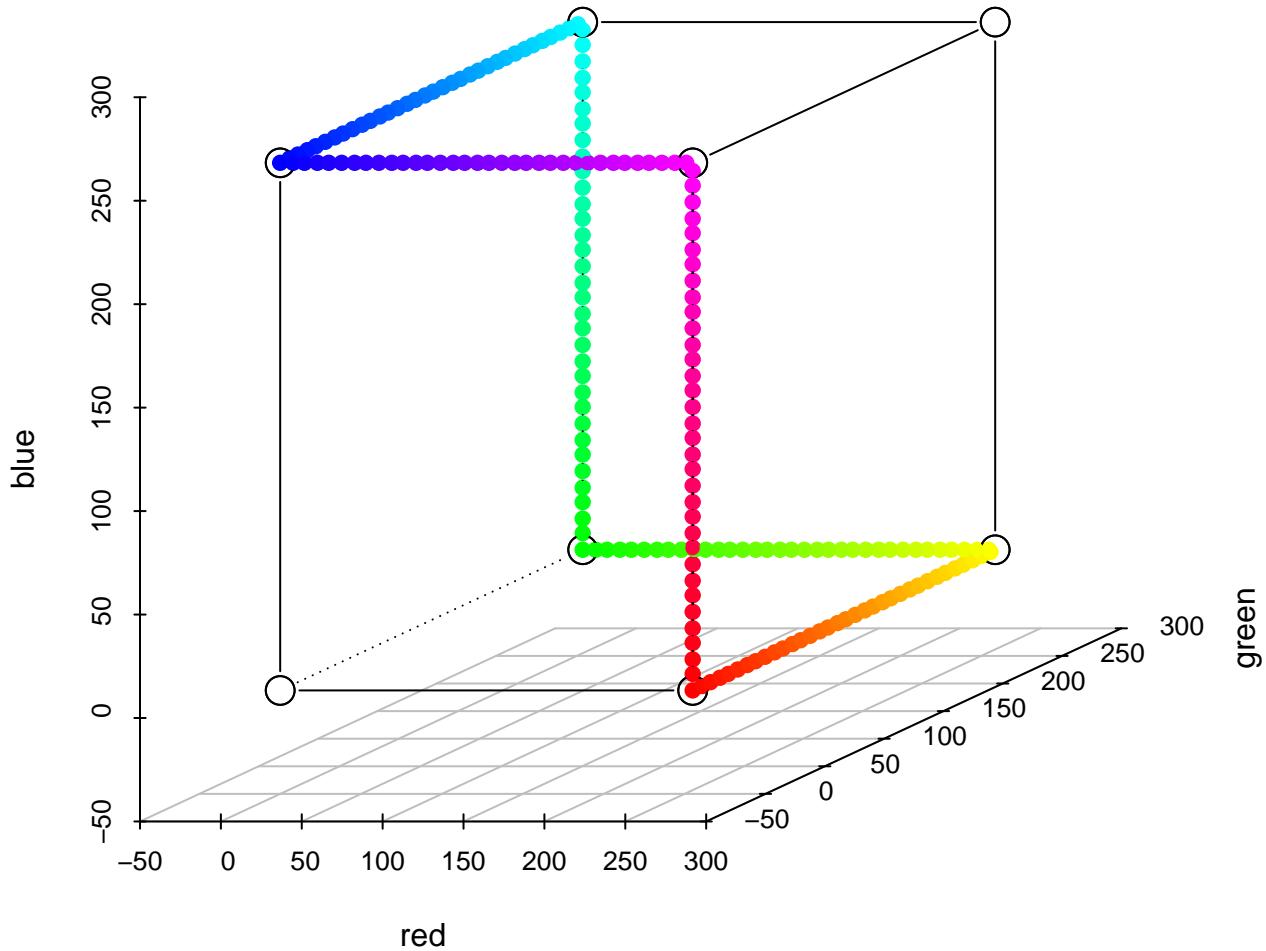


density.default(x = x, bw = bw, n = 1001)





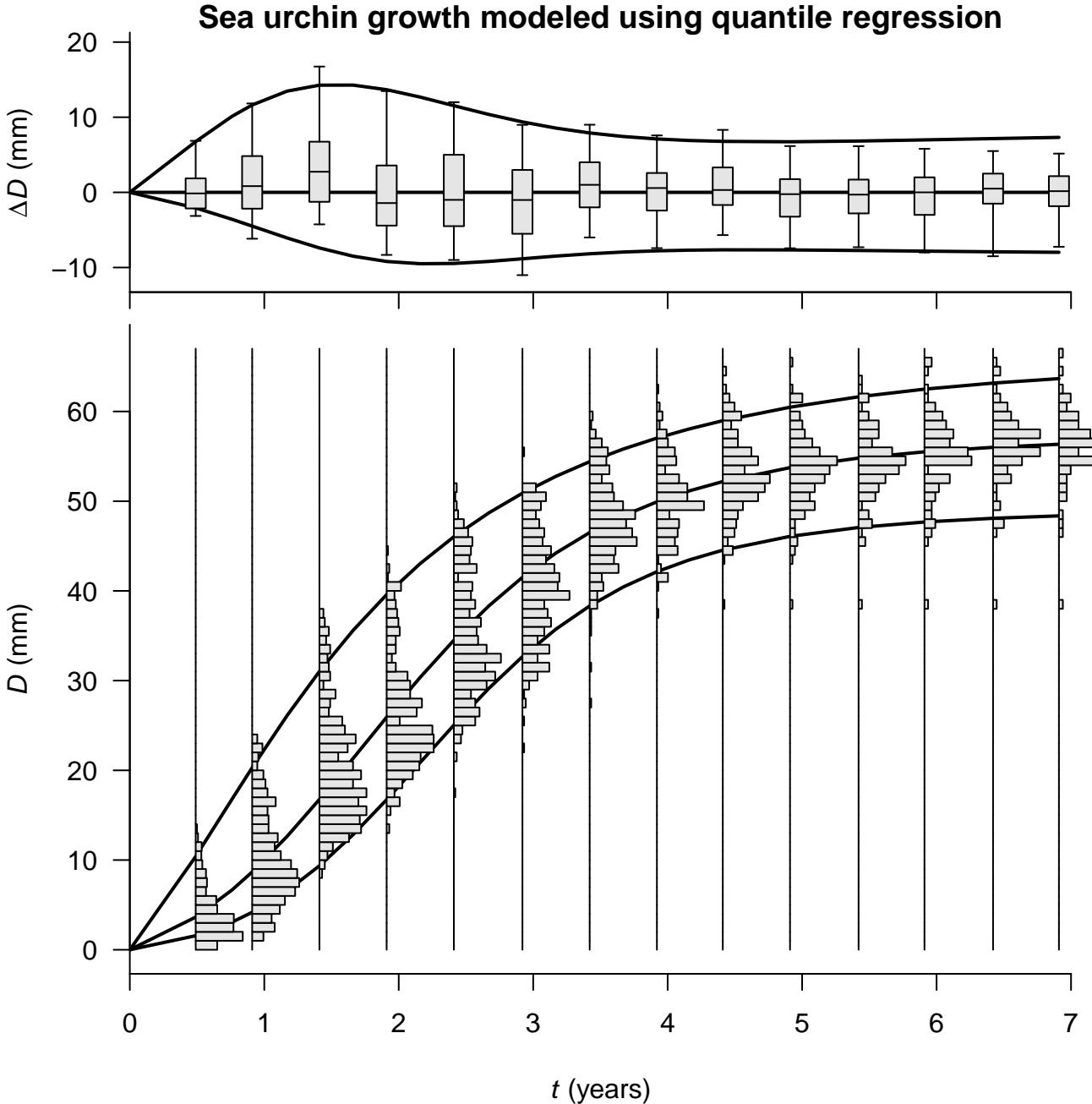


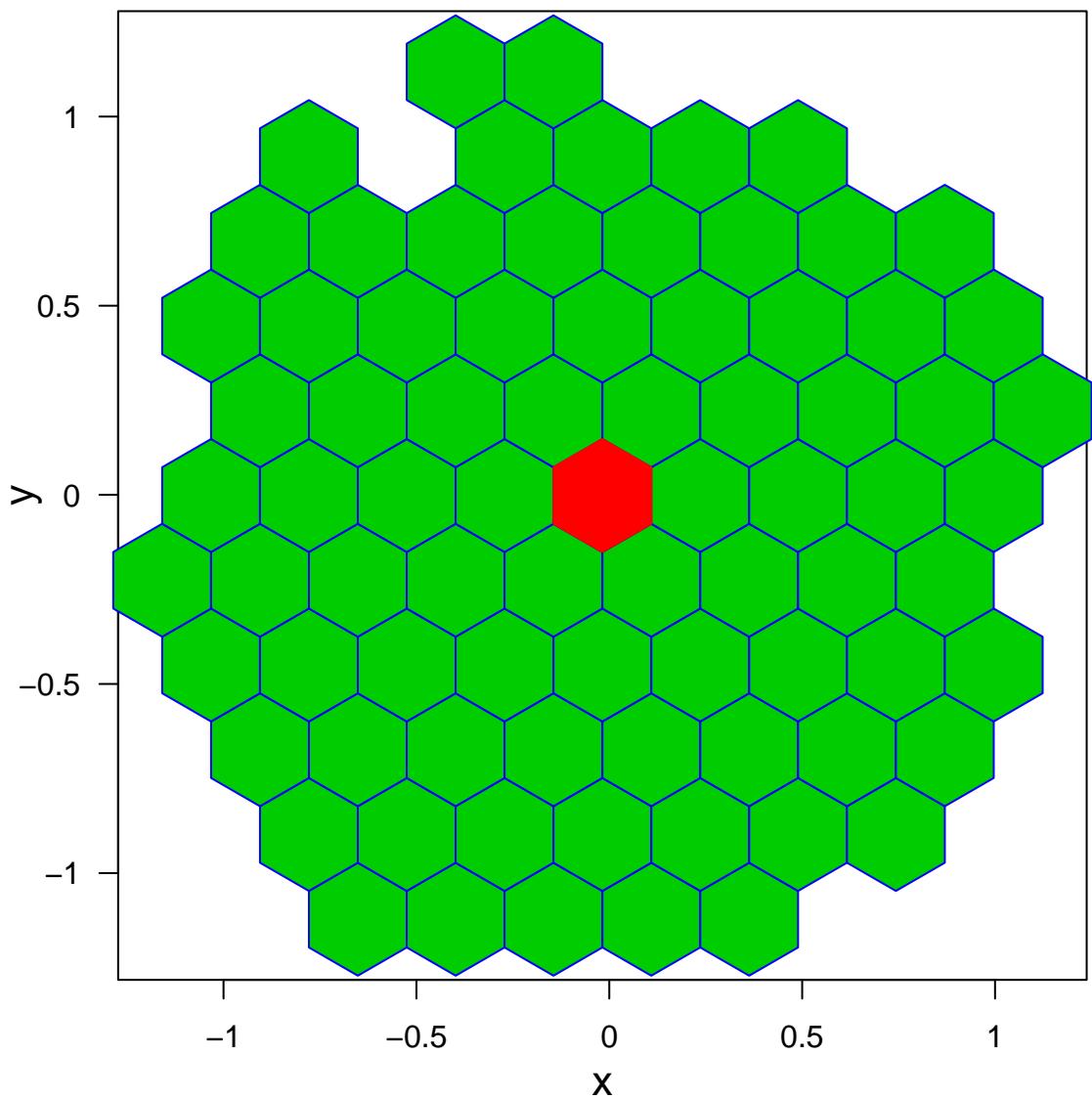


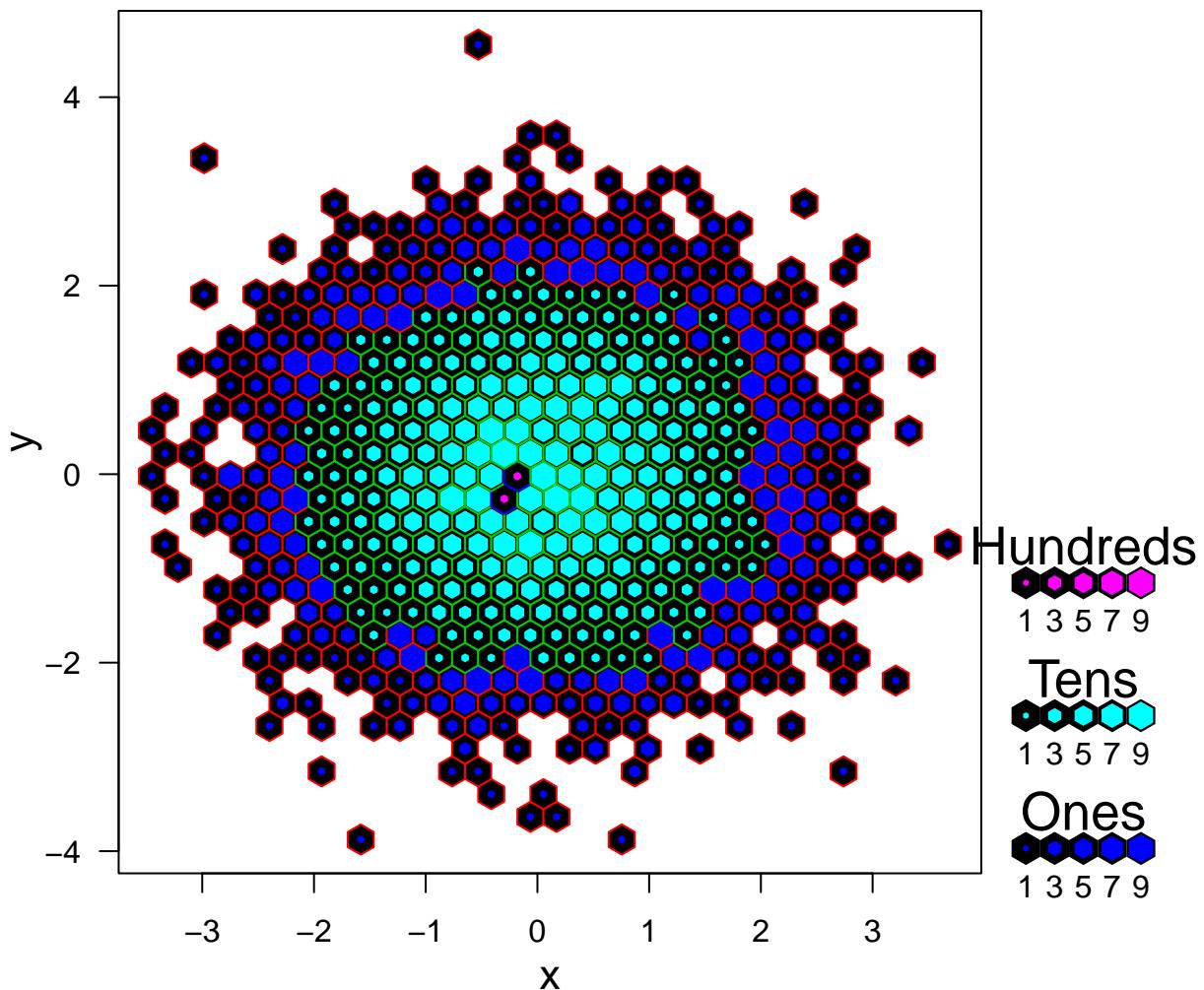
2

1

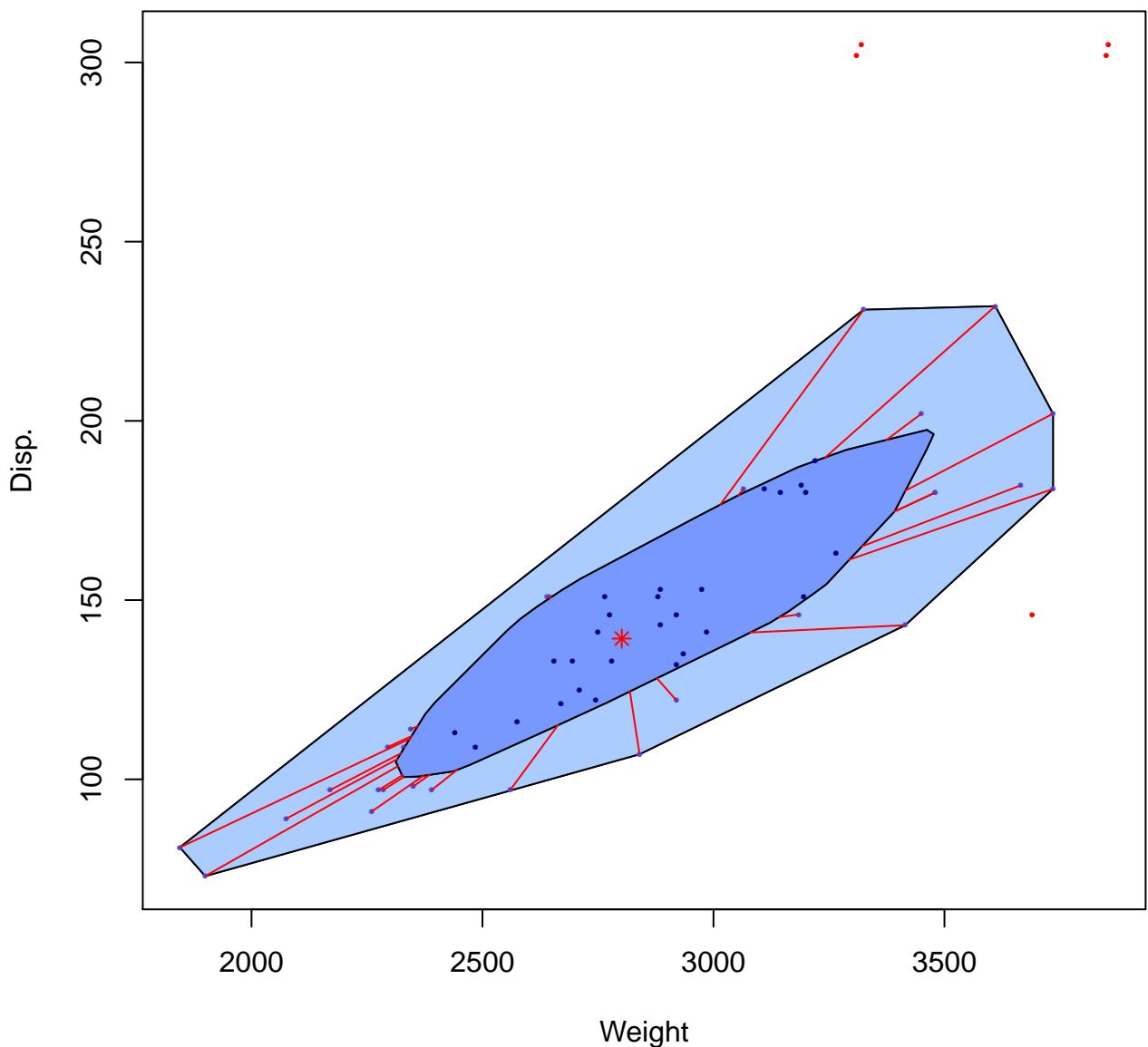
Sea urchin growth modeled using quantile regression



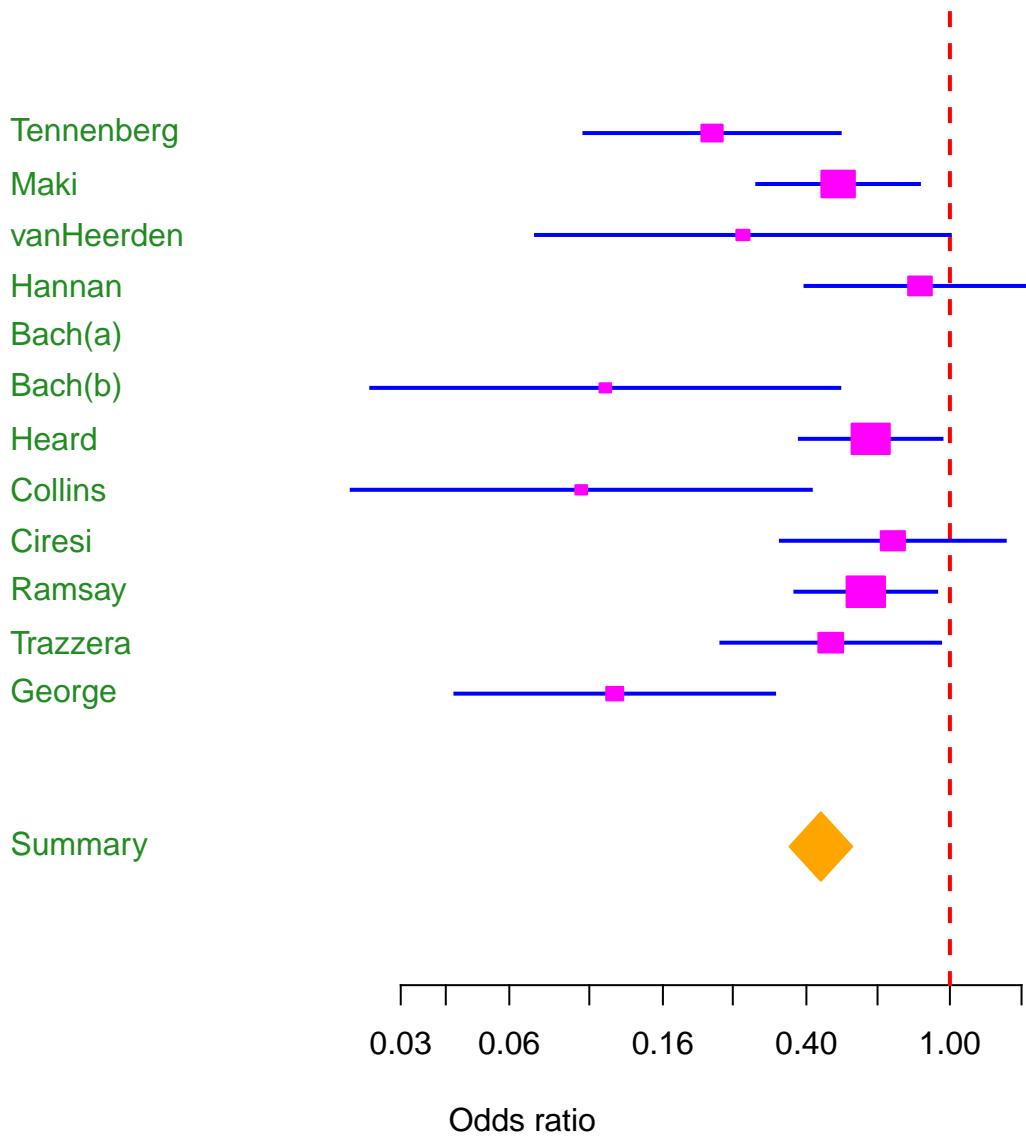


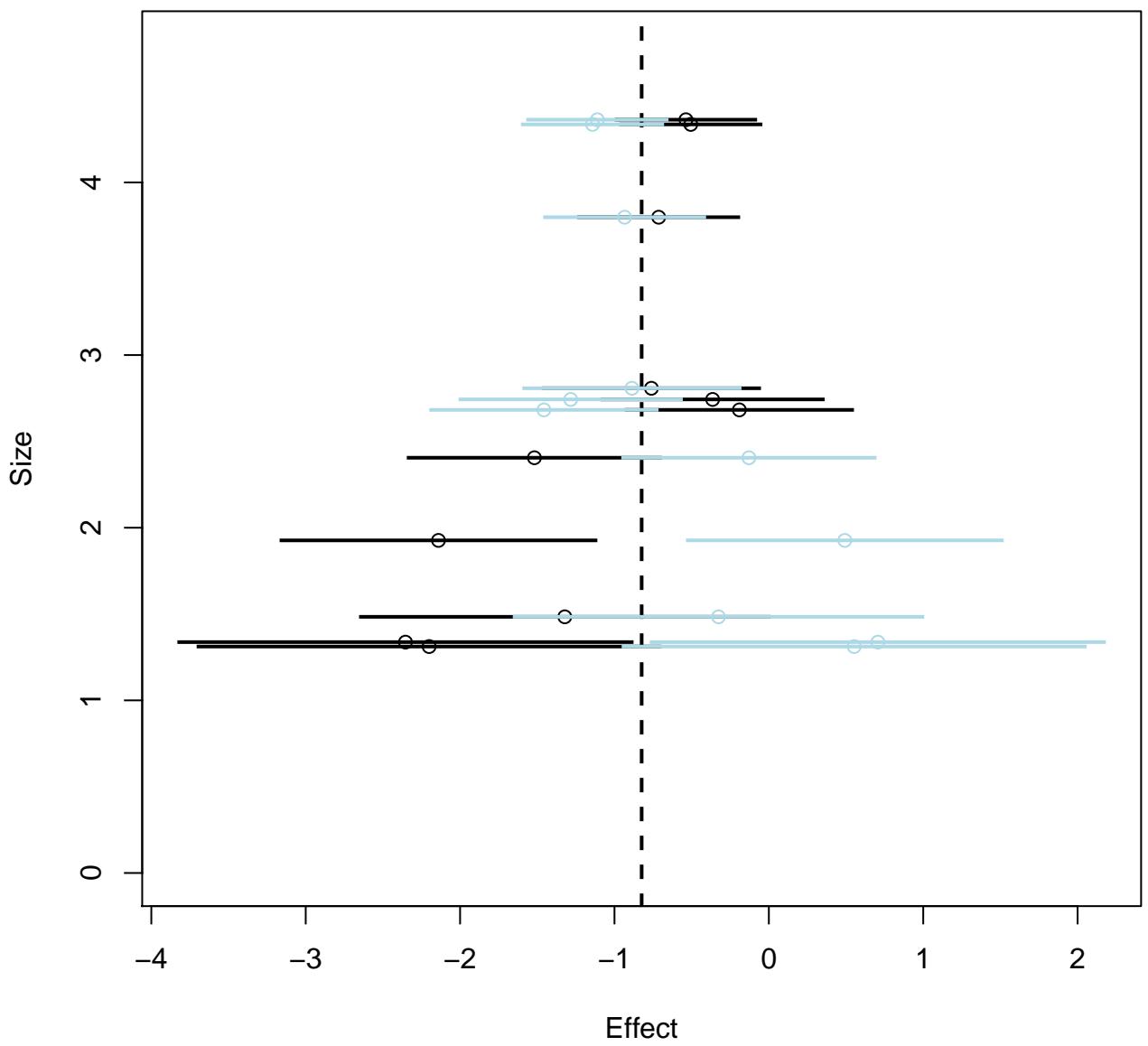


car data Chambers/Hastie 1992

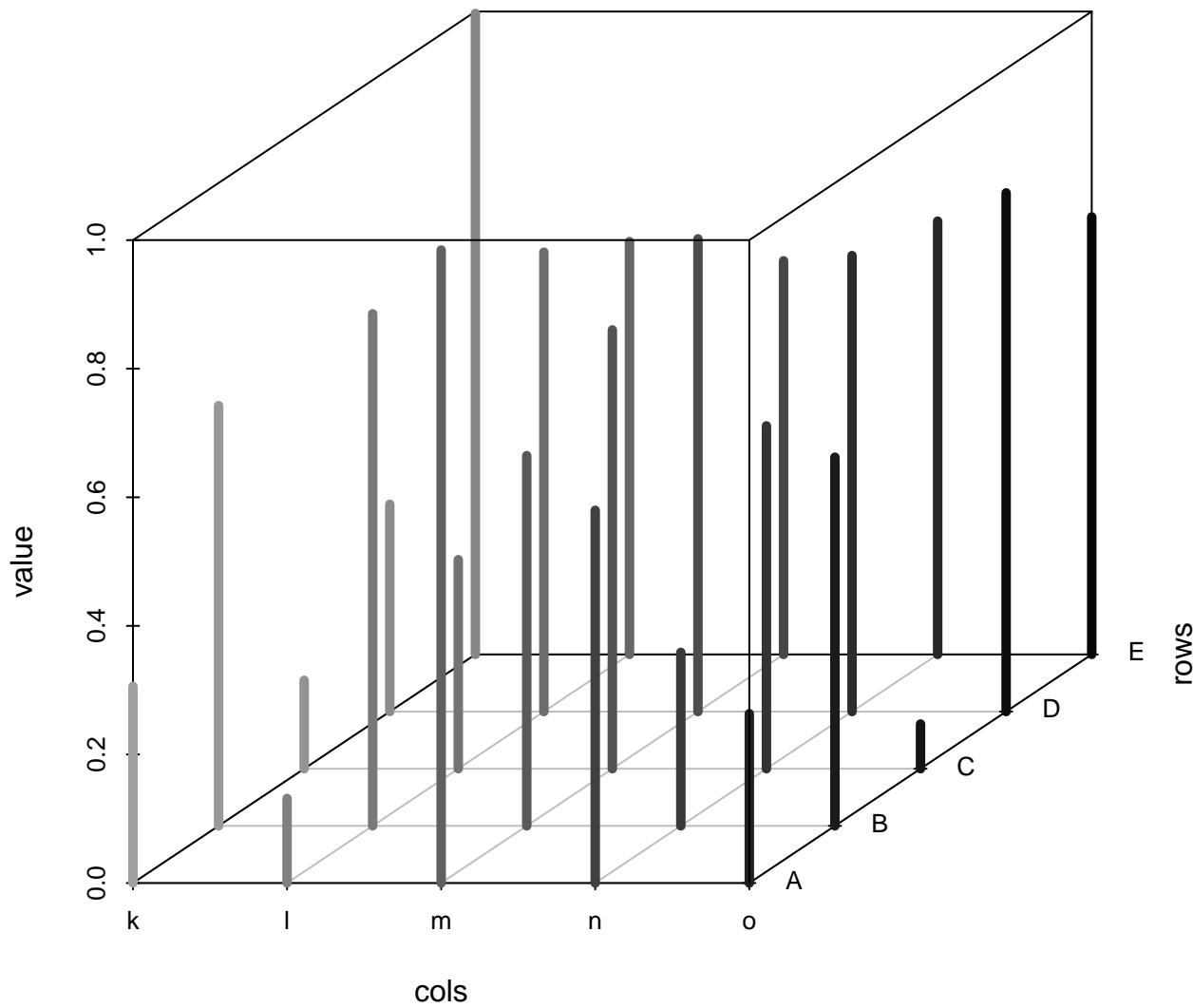


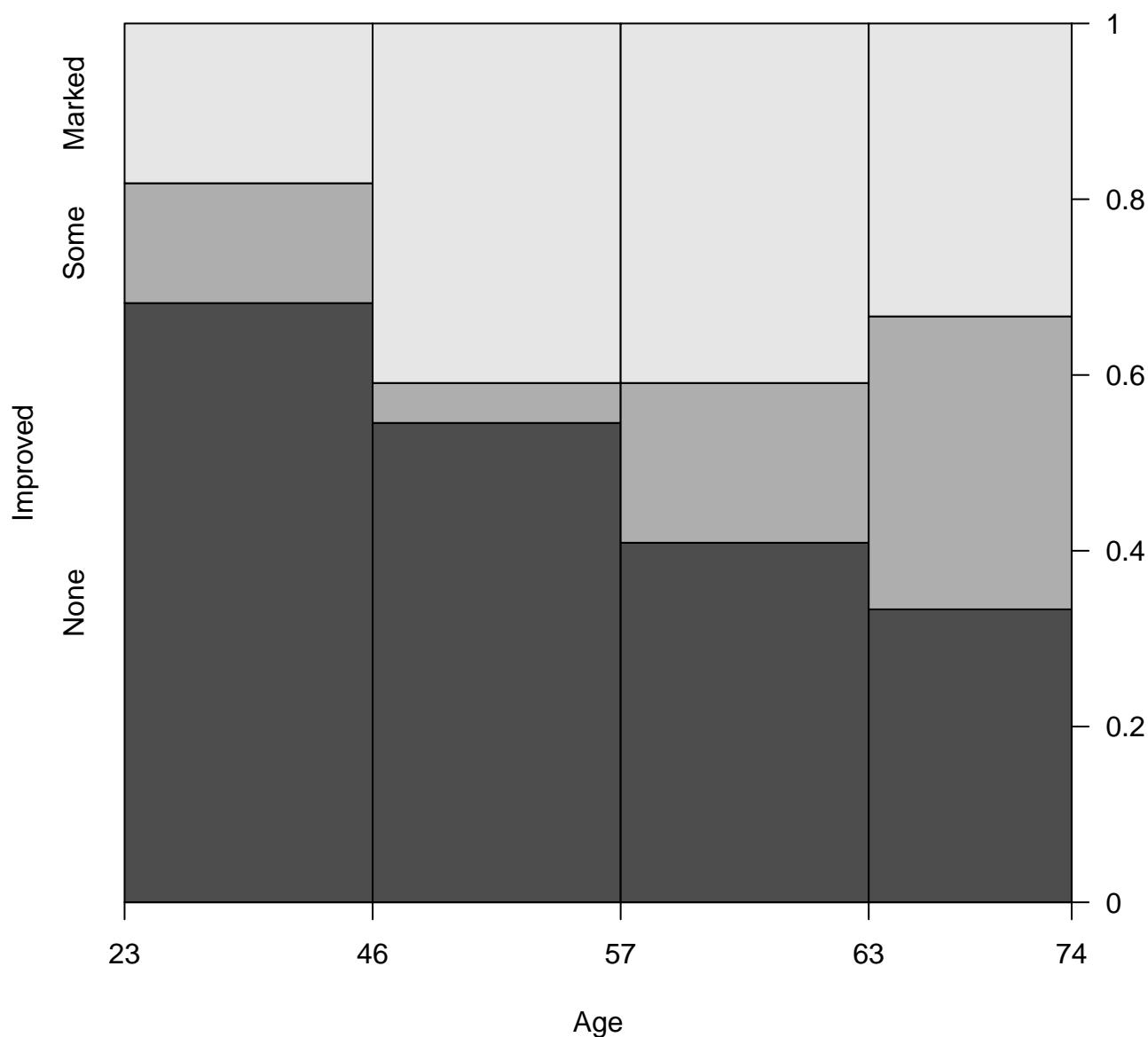
Study Reference

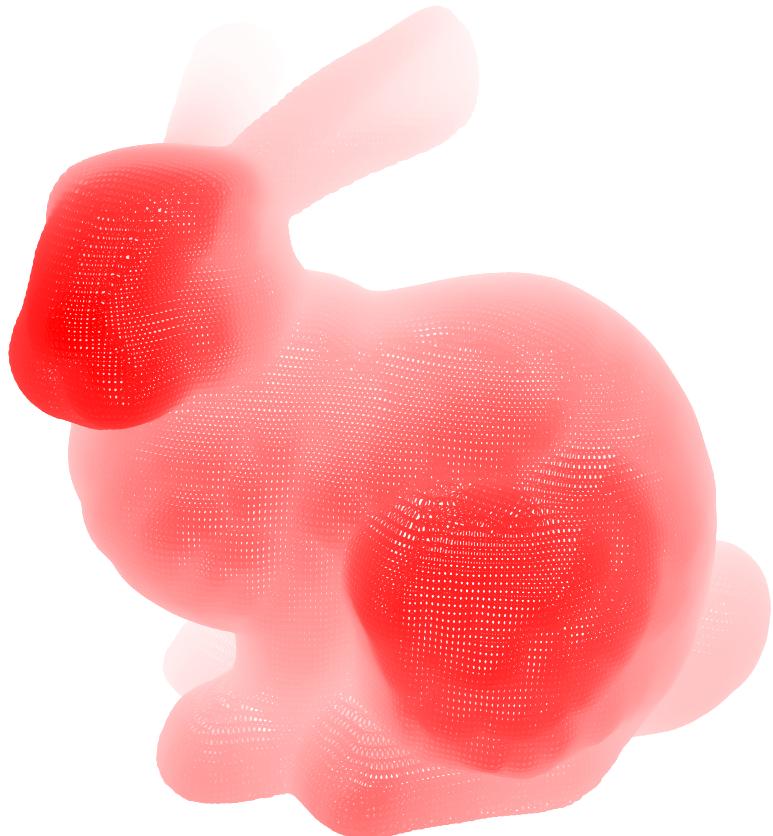




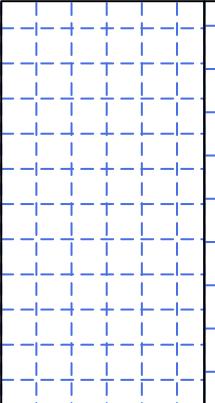
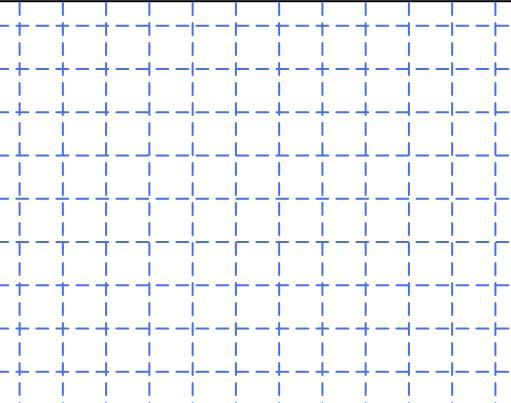
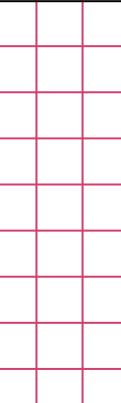
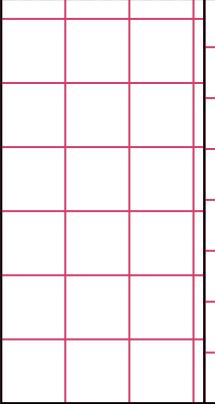
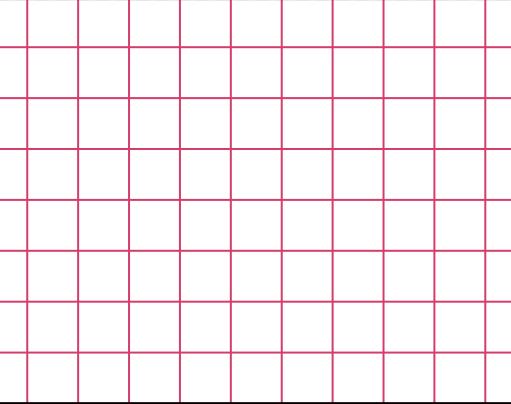
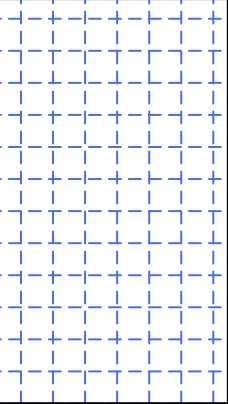
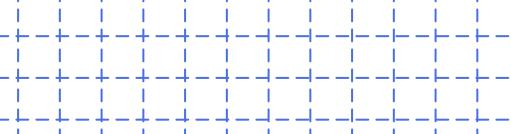
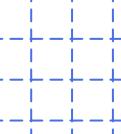
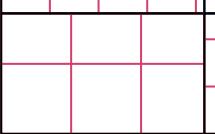
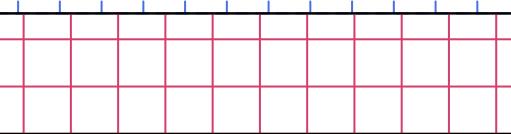
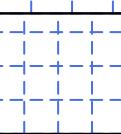
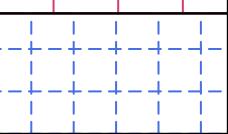
scatterplot3d – 4

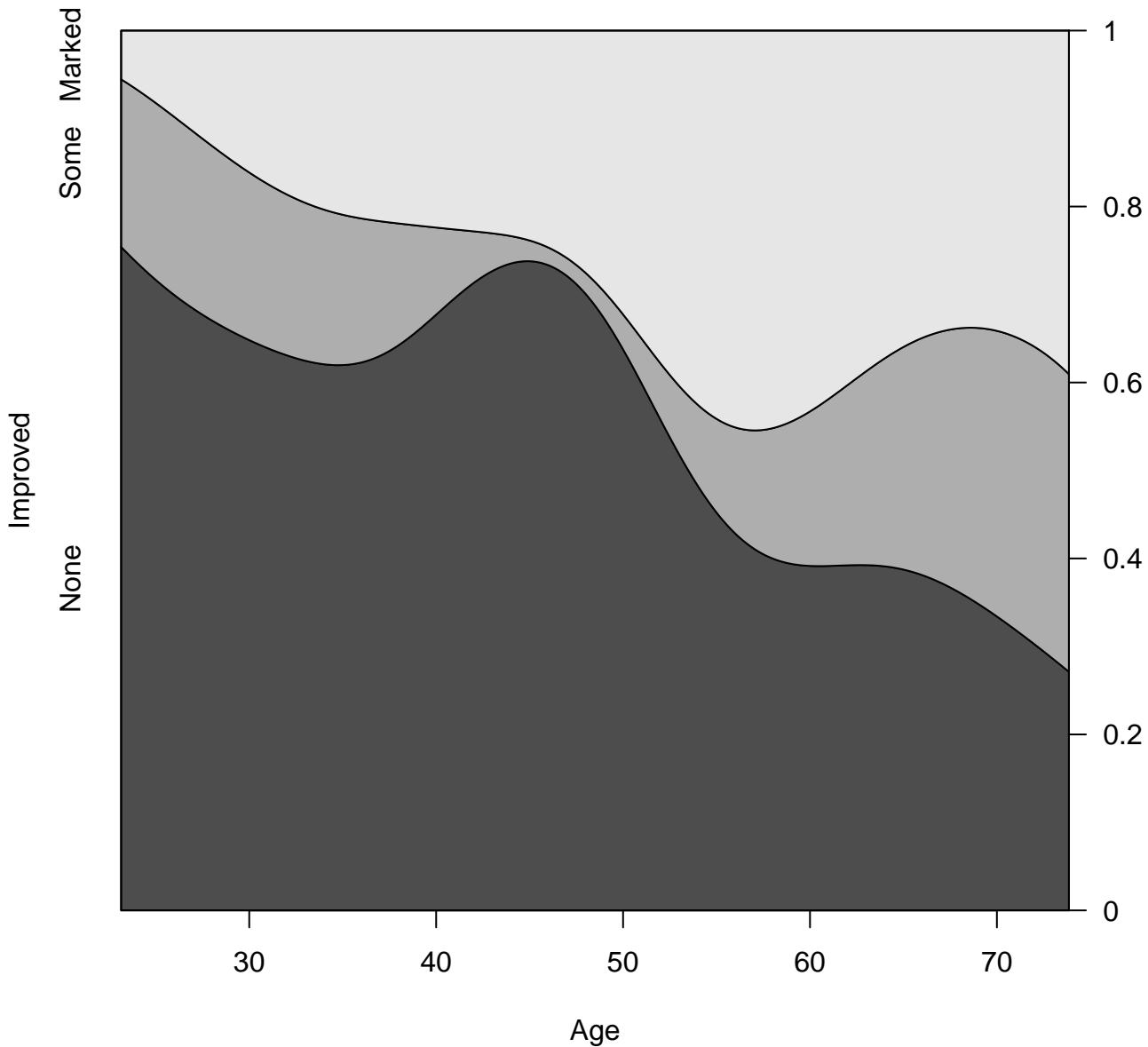




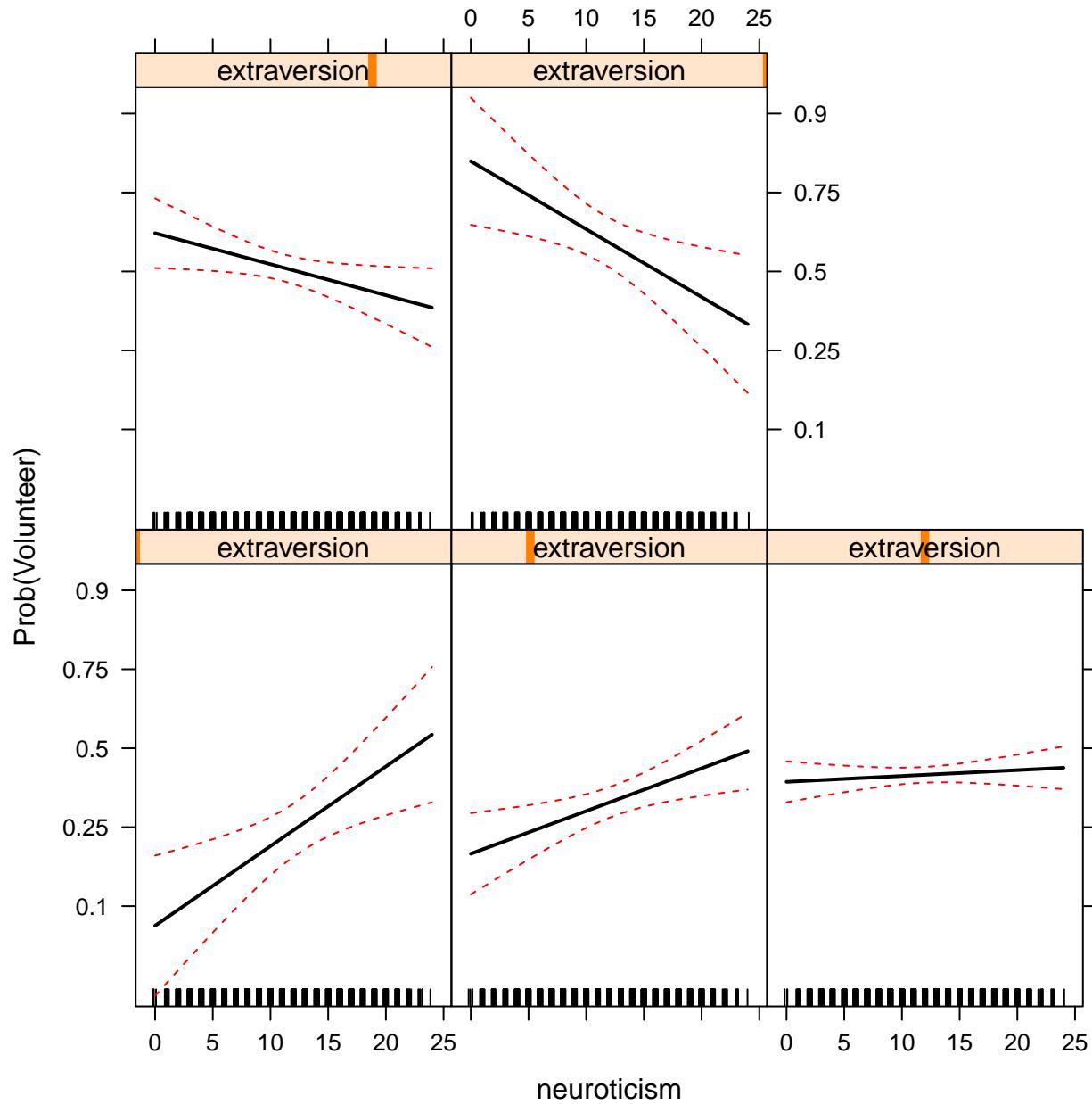


Hair

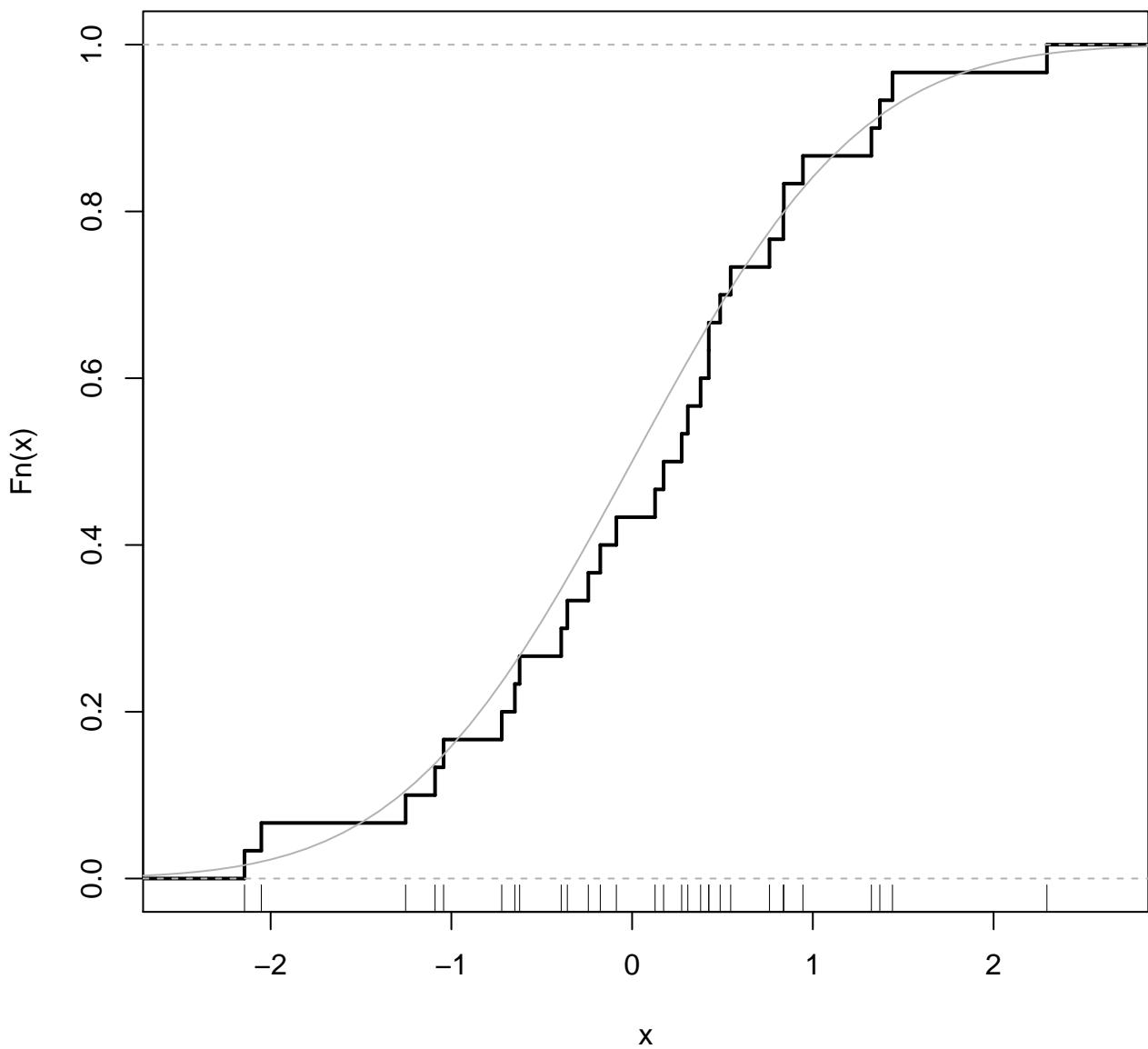
	Black	Brown	Red	Blond
Brown				
Blue				
Hazel				
Green				



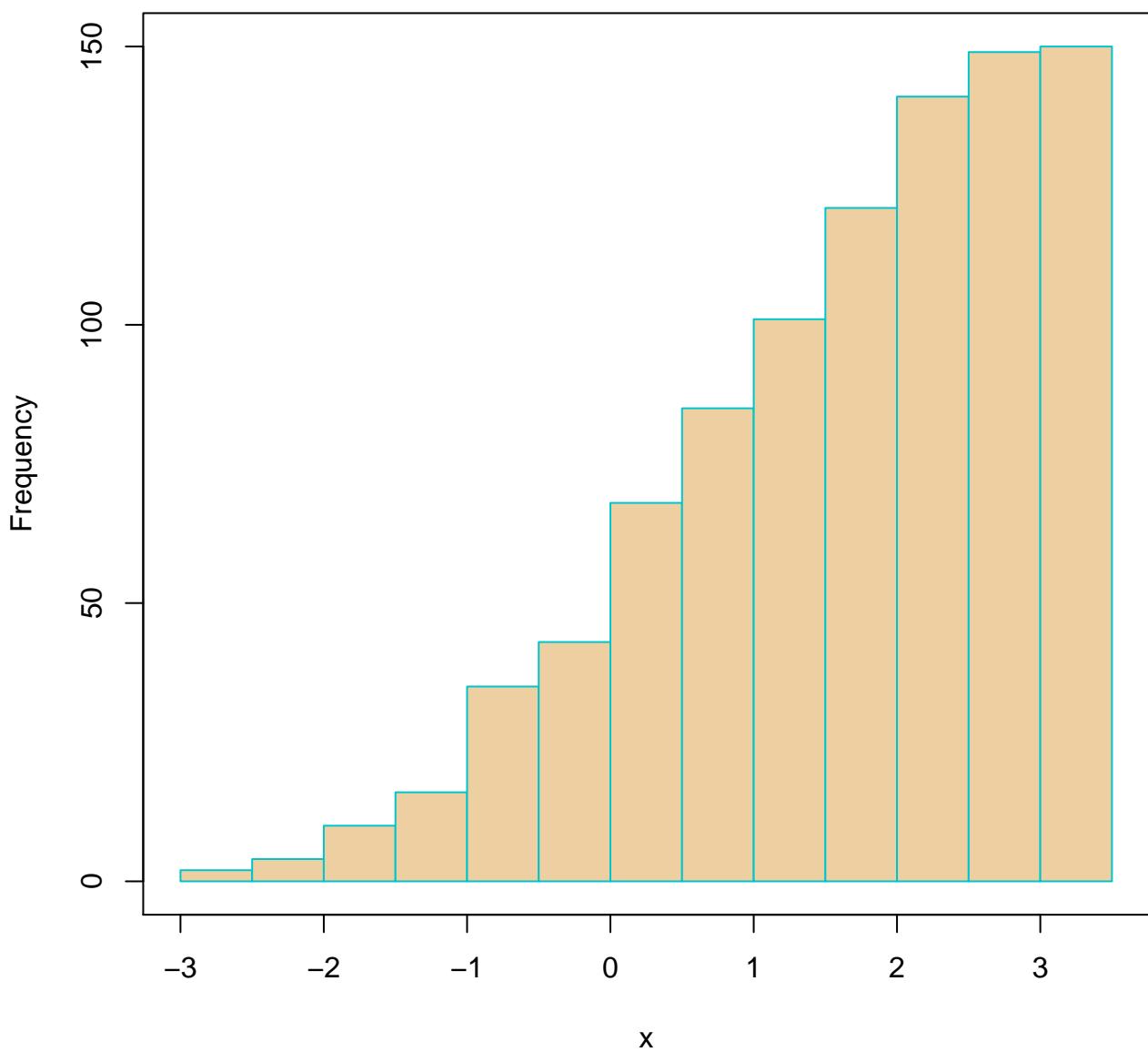
neuroticism*extraversion effect plot



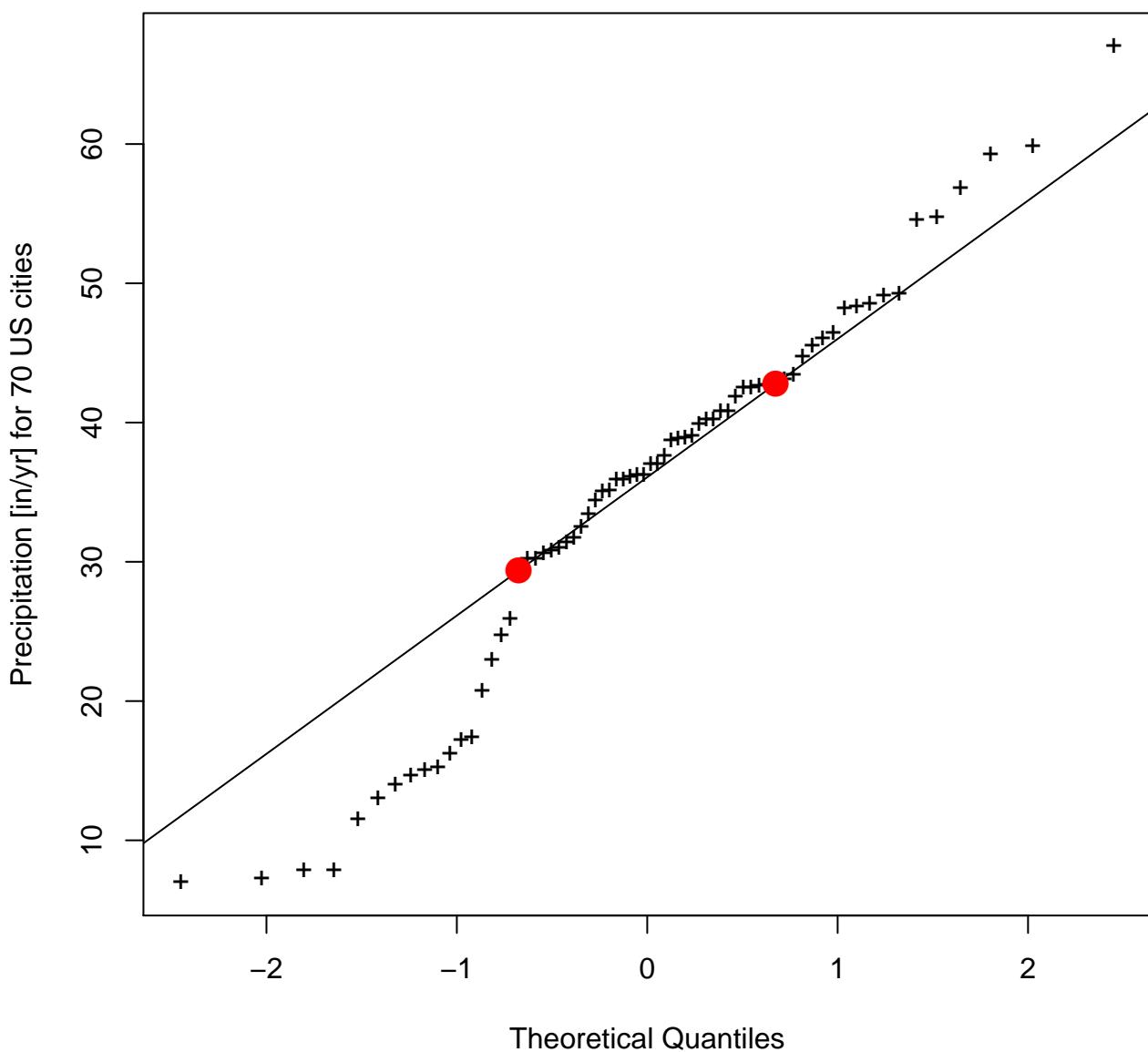
ecdf(x)

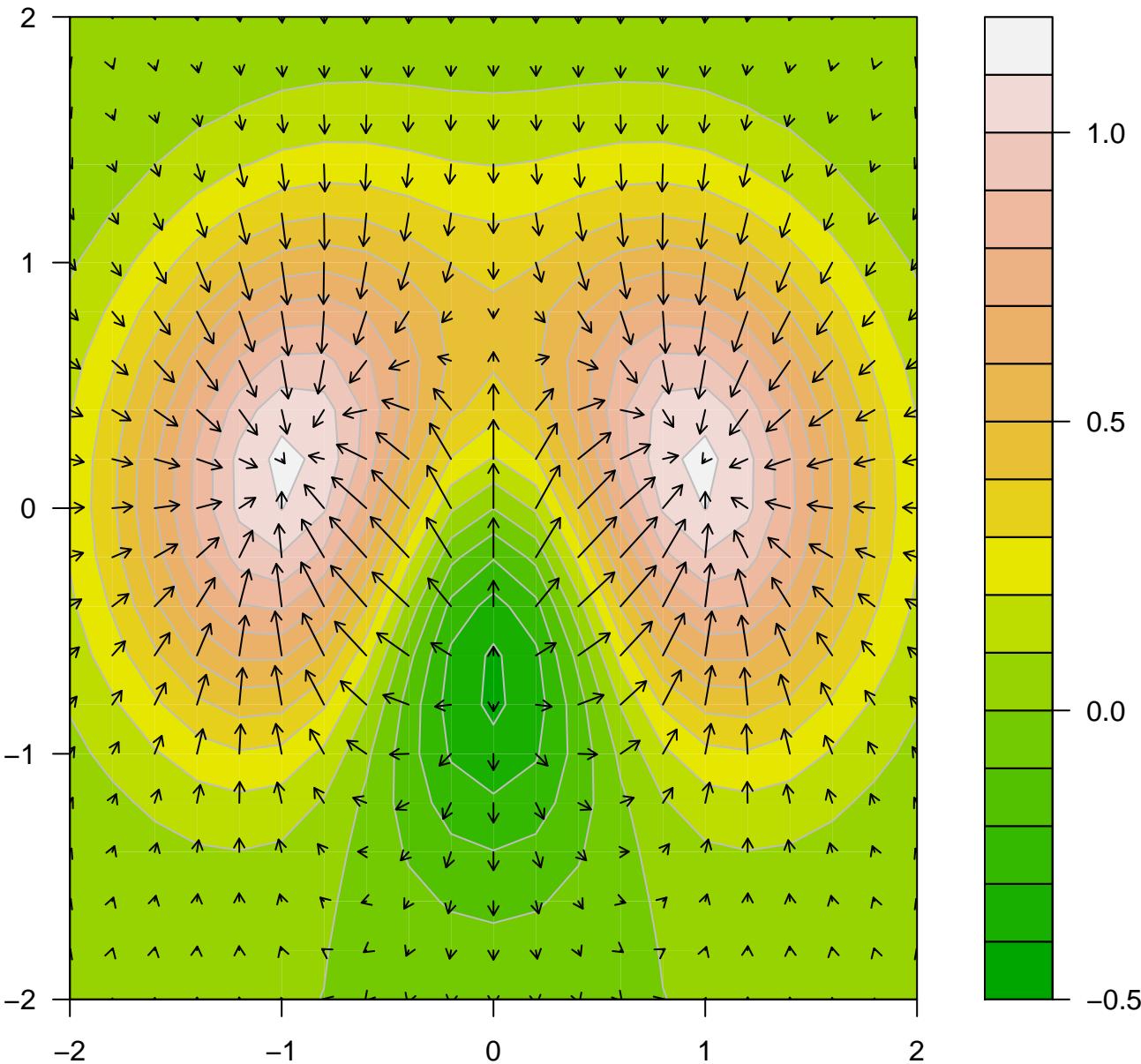


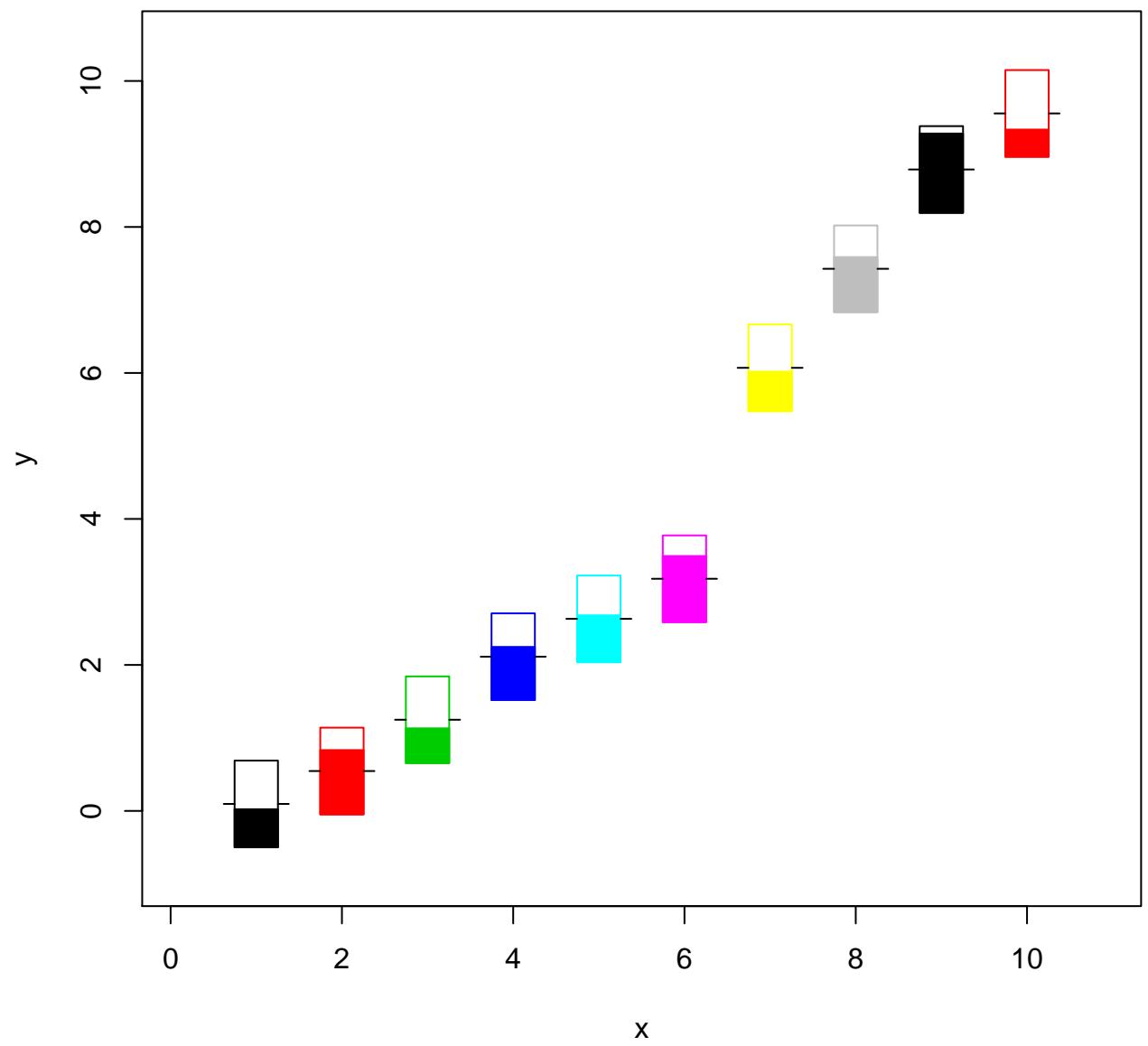
(Cumulative) histogram of x



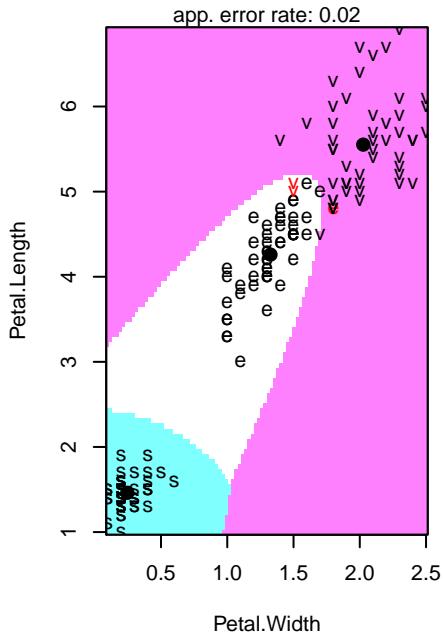
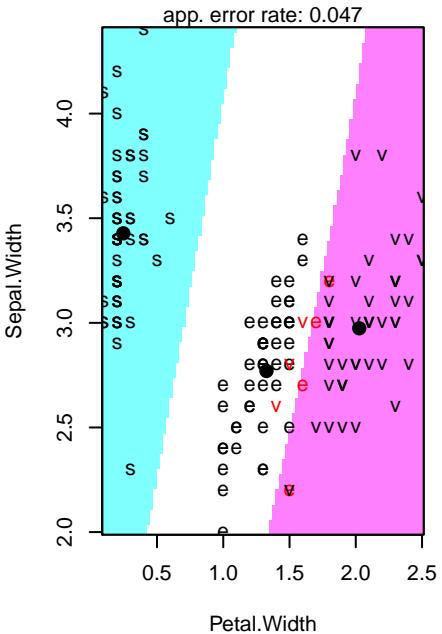
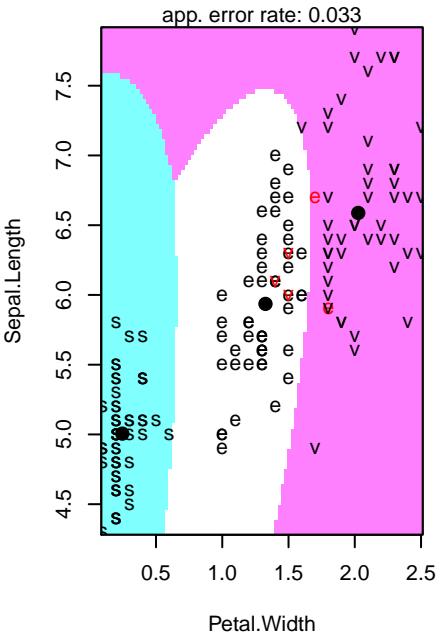
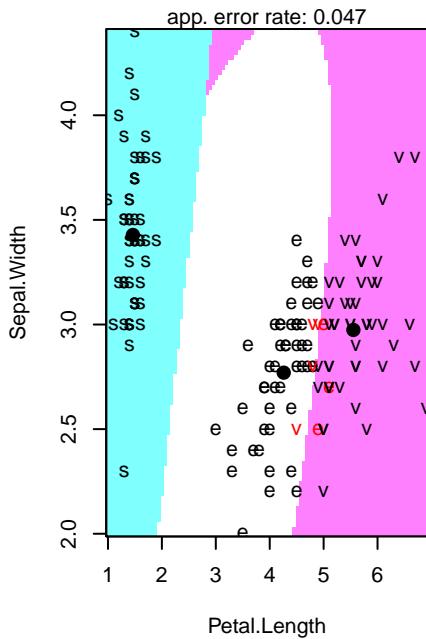
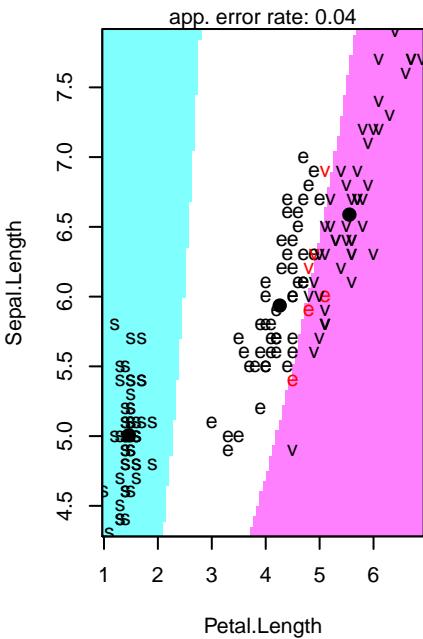
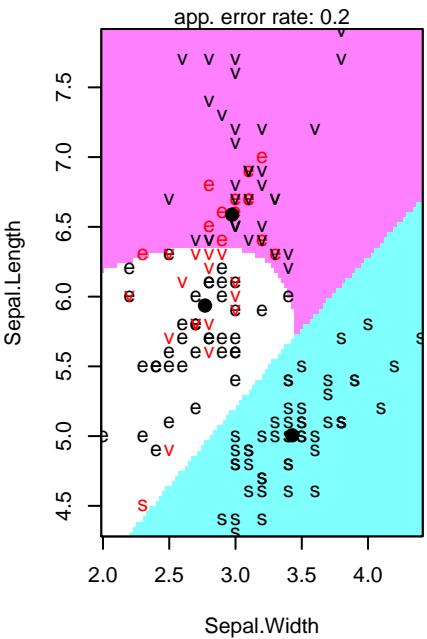
Normal Q-Q Plot

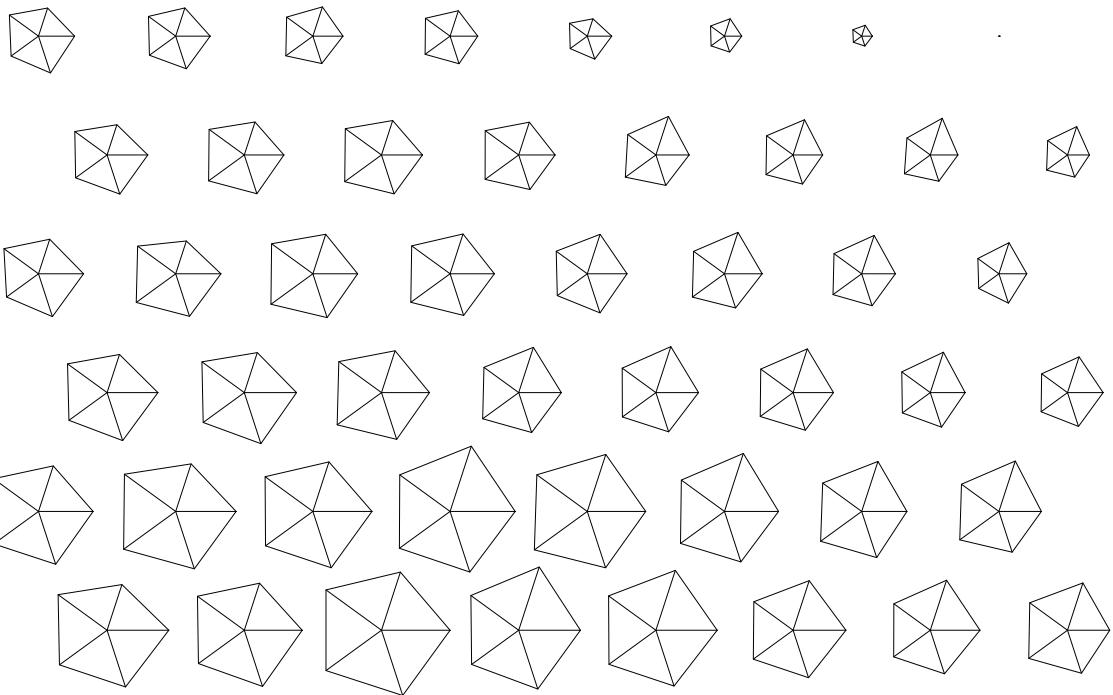


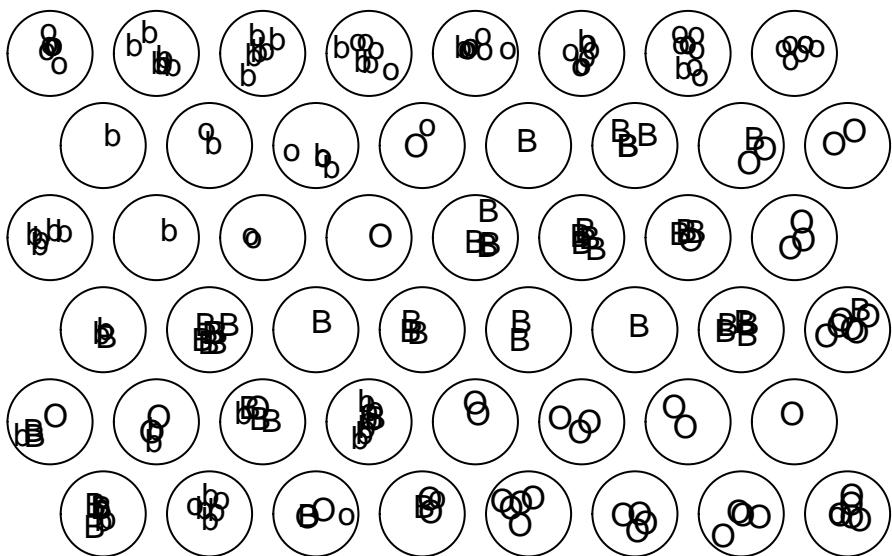




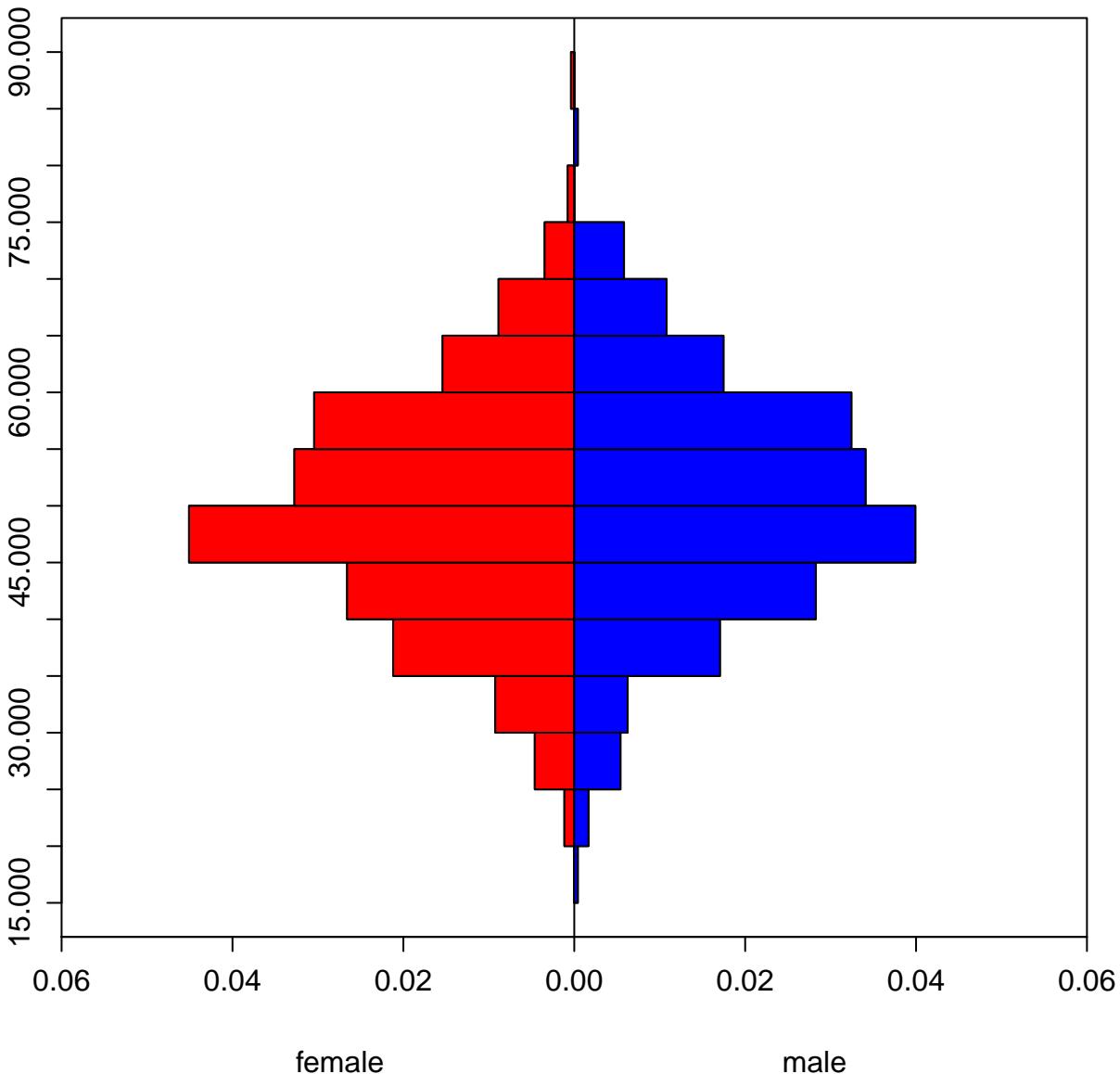
Partition Plot

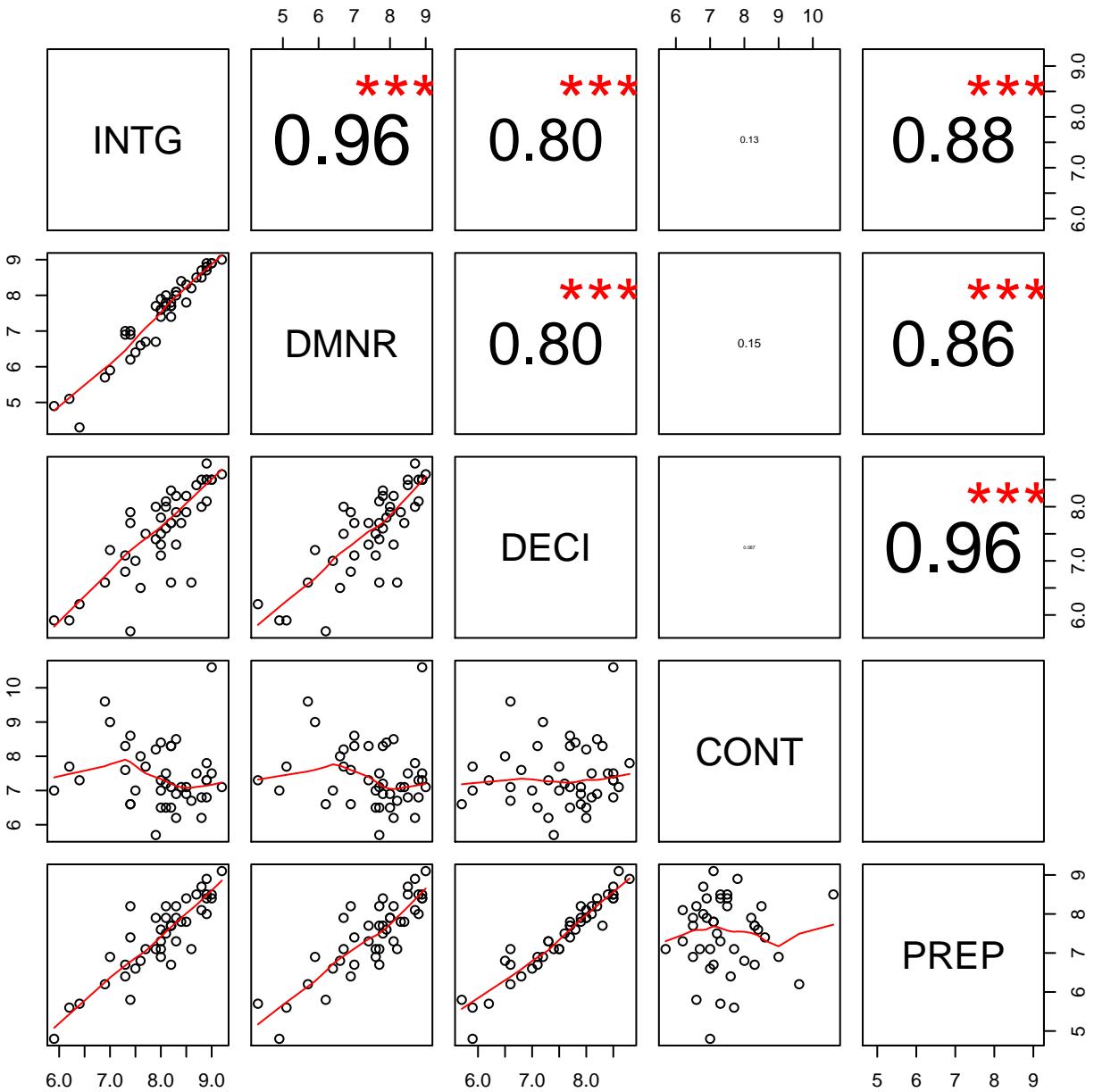




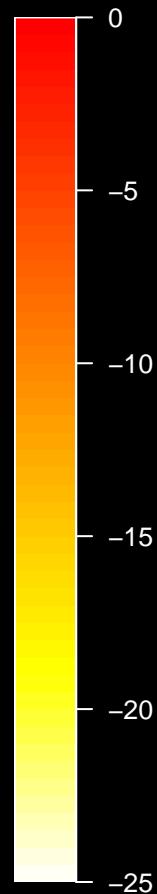


Back to Back Histogram

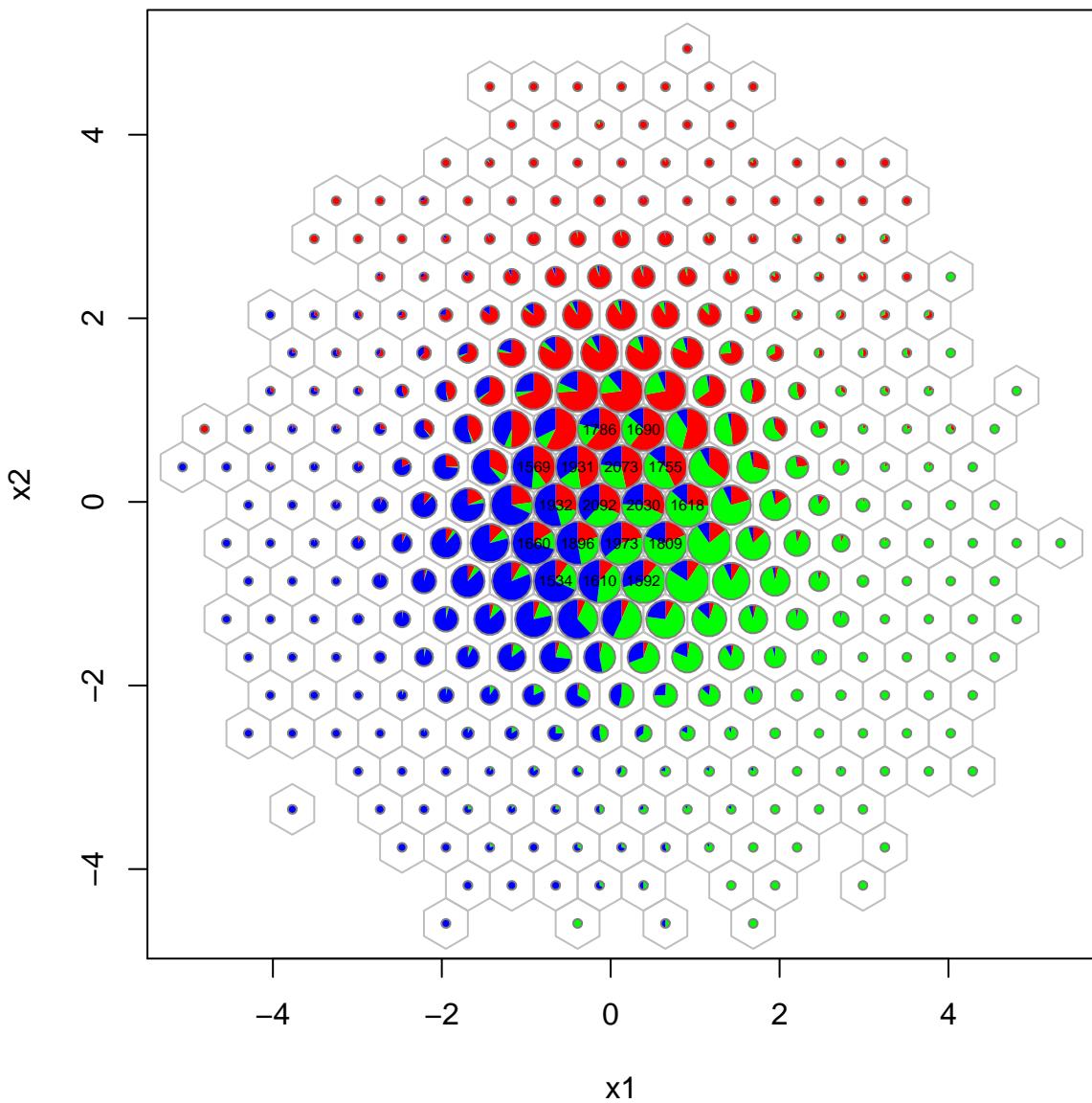




Amplitude
(dB)



This is a hexbinpie



Hair color and Eye color

