

## example(Japanese)

Japan

English

日本

Kanji

ジャパン

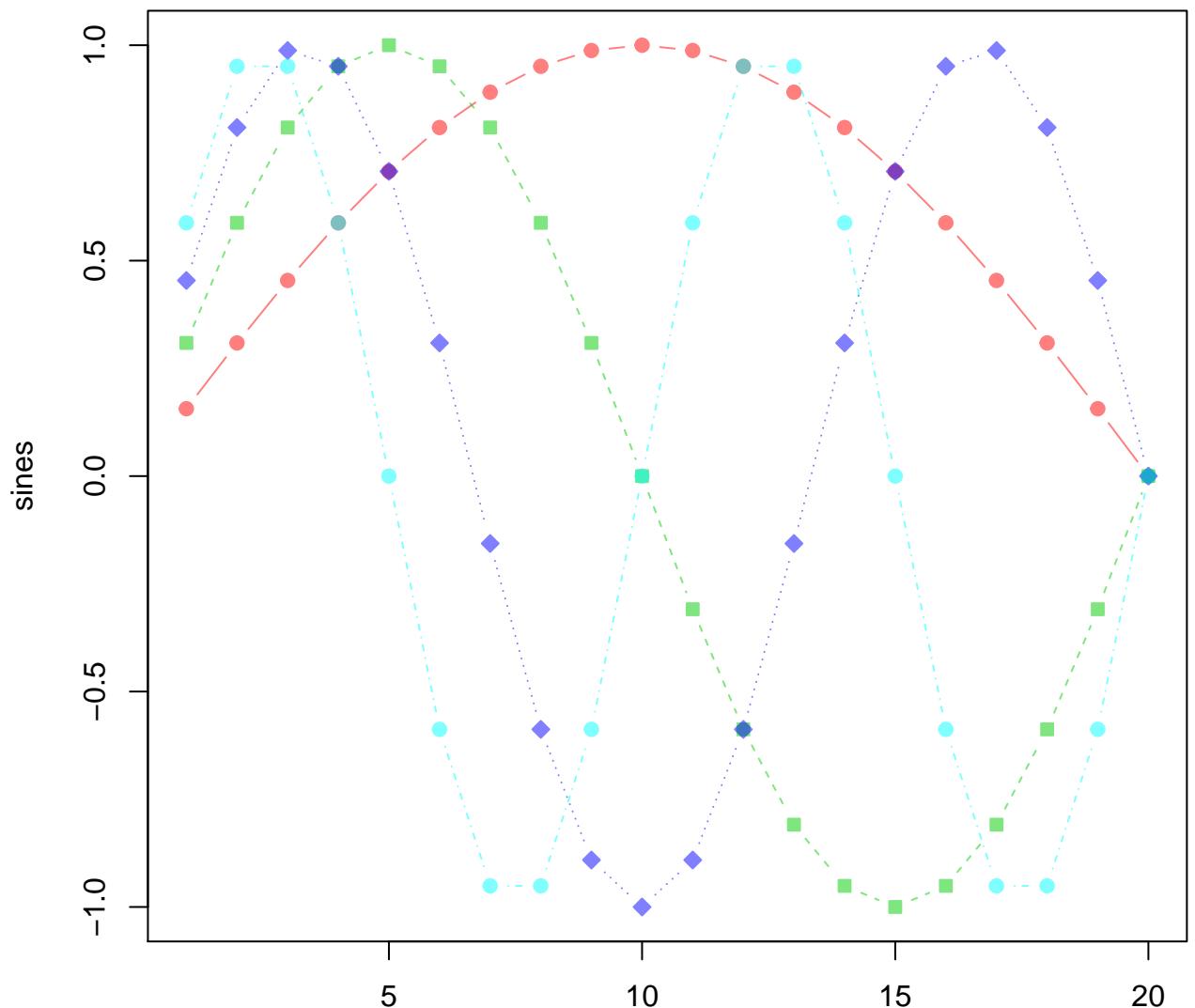
Katakana

にほん

Hiragana

using Hershey fonts

## Using an 'opaque ('translucent') color palette



help("adjustcolor")

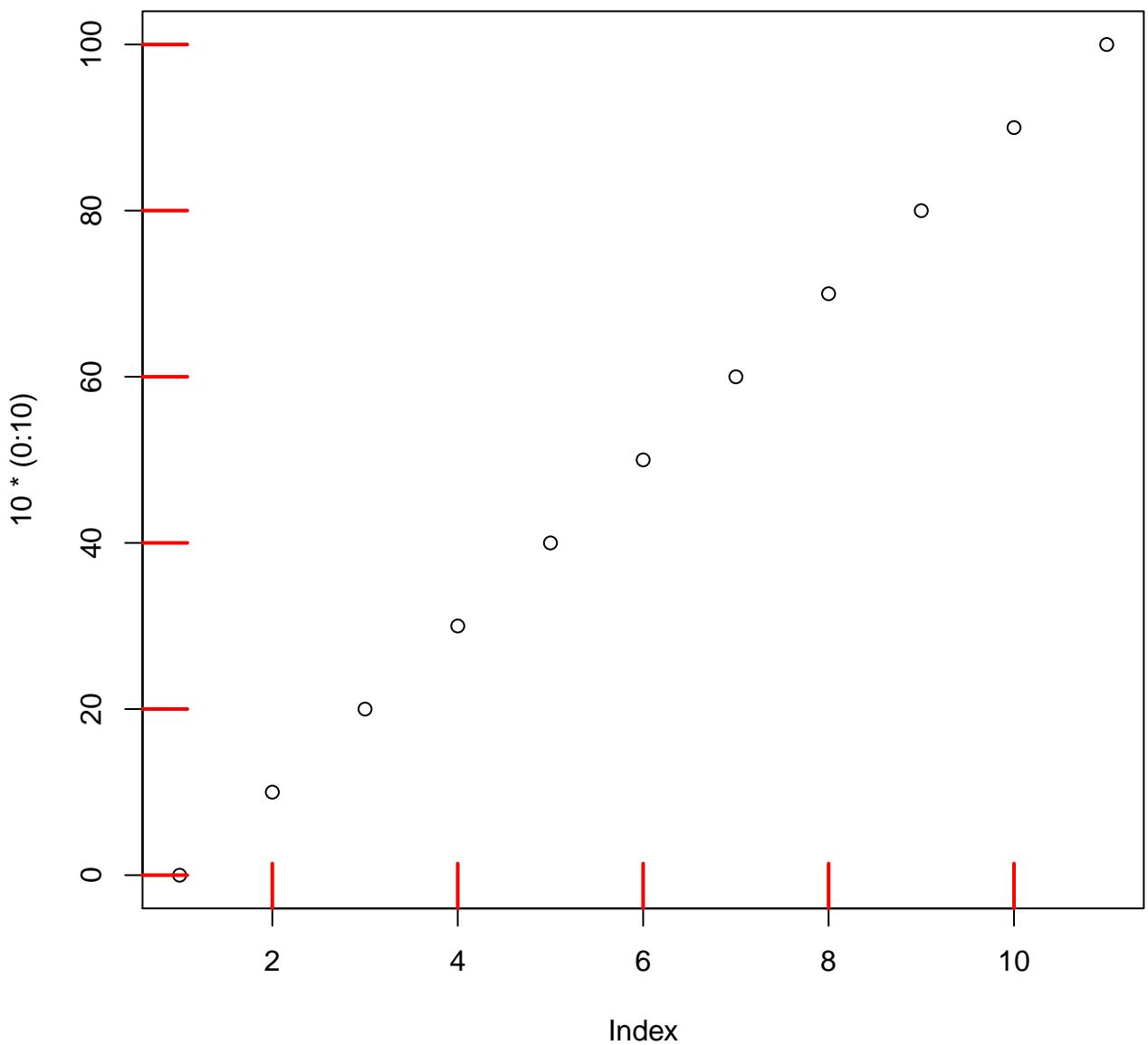
`adjustcolor() -> translucent`

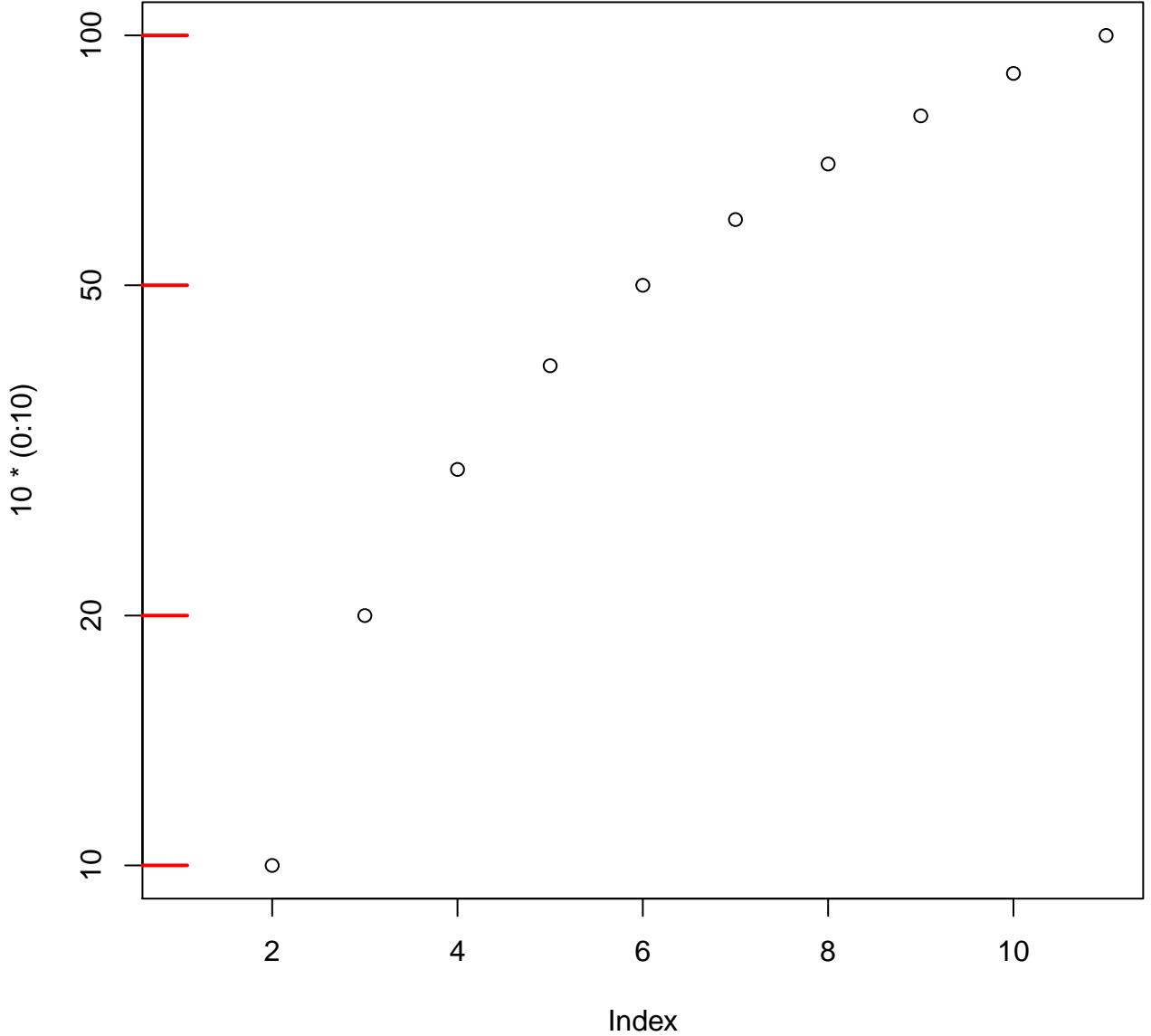
A word cloud visualization on a brown background. The words represent colors and their adjustment symbols. The words are arranged in a roughly triangular shape, with 'black' at the bottom left and 'gray' at the top right. The colors of the words correspond to their meaning: black is dark gray, red is orange-red, green is light green, blue is purple-blue, cyan is light cyan, magenta is pink, yellow is pale yellow, and gray is off-white. Each word is followed by a small symbol consisting of a plus sign inside a square frame, representing the `adjustcolor()` function's output.

black +  
red +  
green +  
blue +  
cyan +  
magenta +  
yellow +  
gray +

help("adjustcolor")

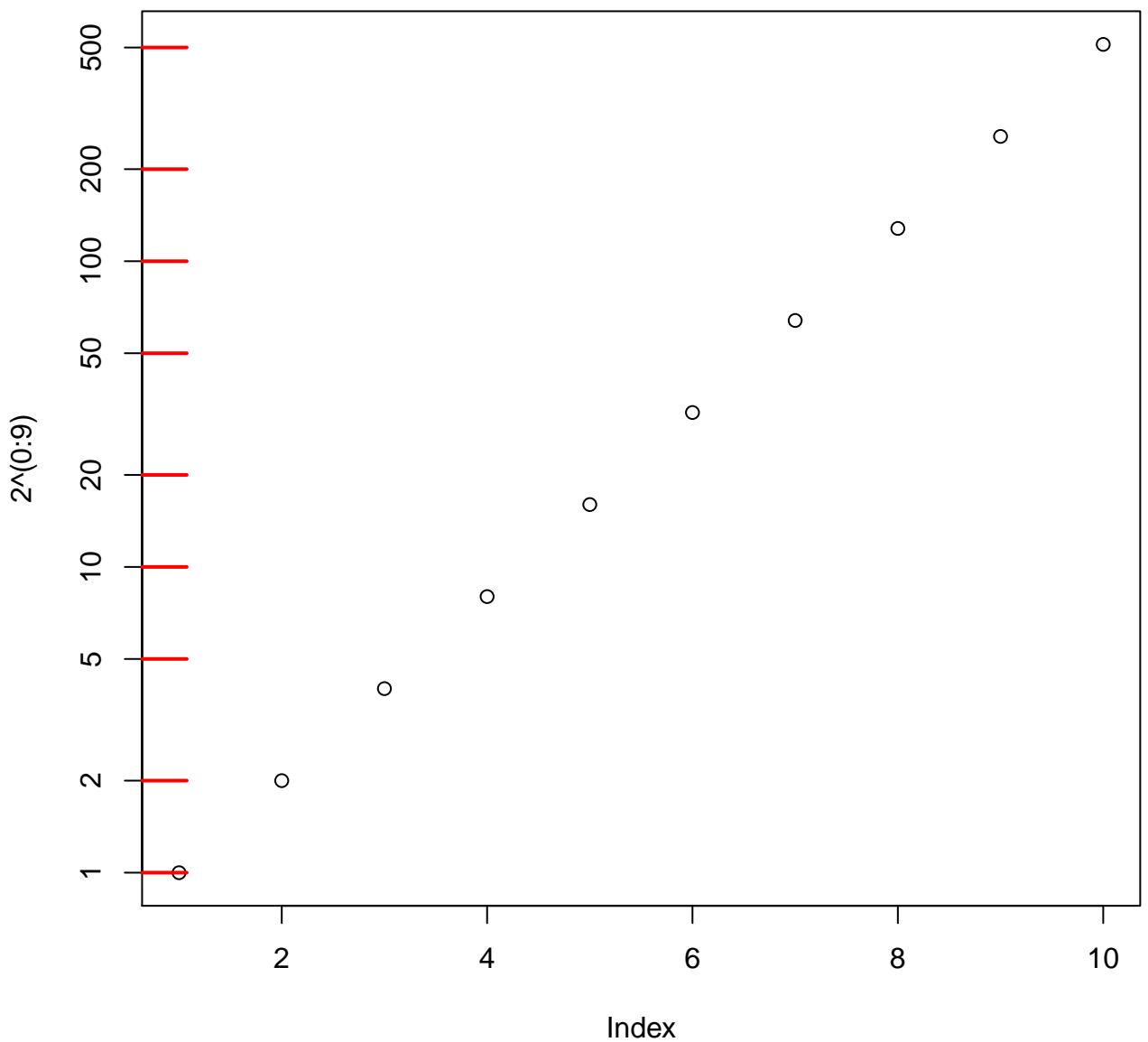
help("axisTicks")

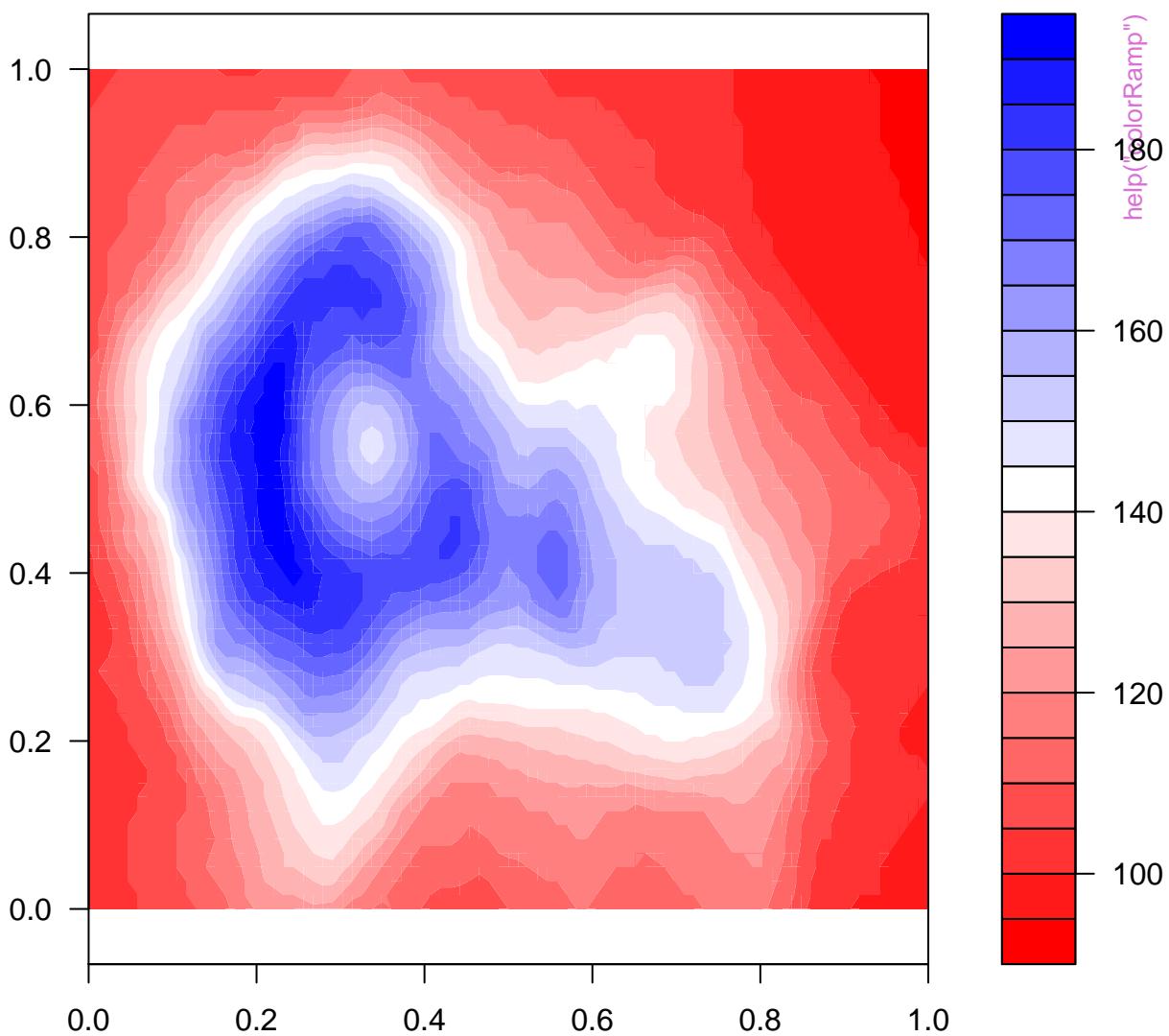


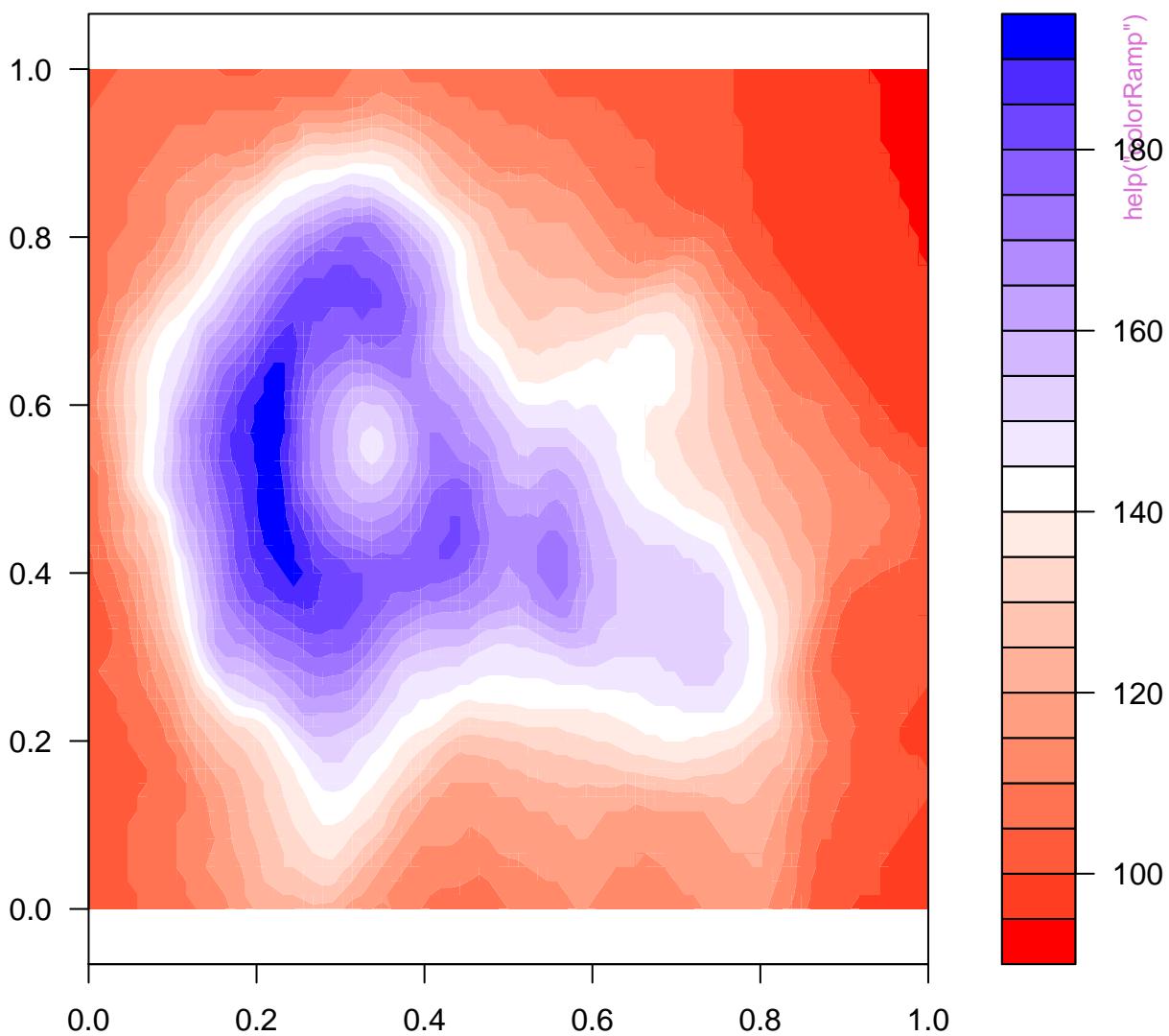


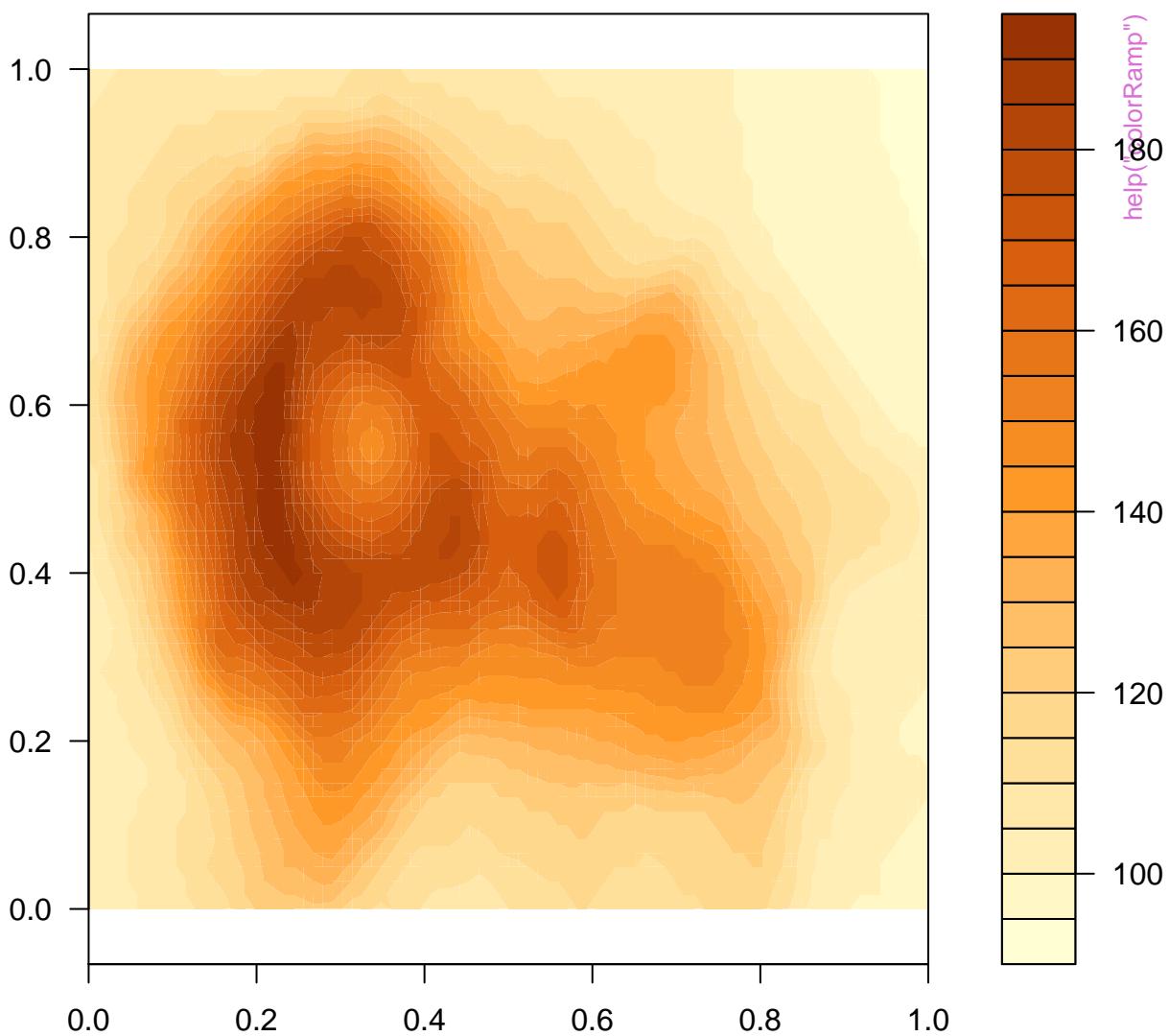
help("axisTicks")

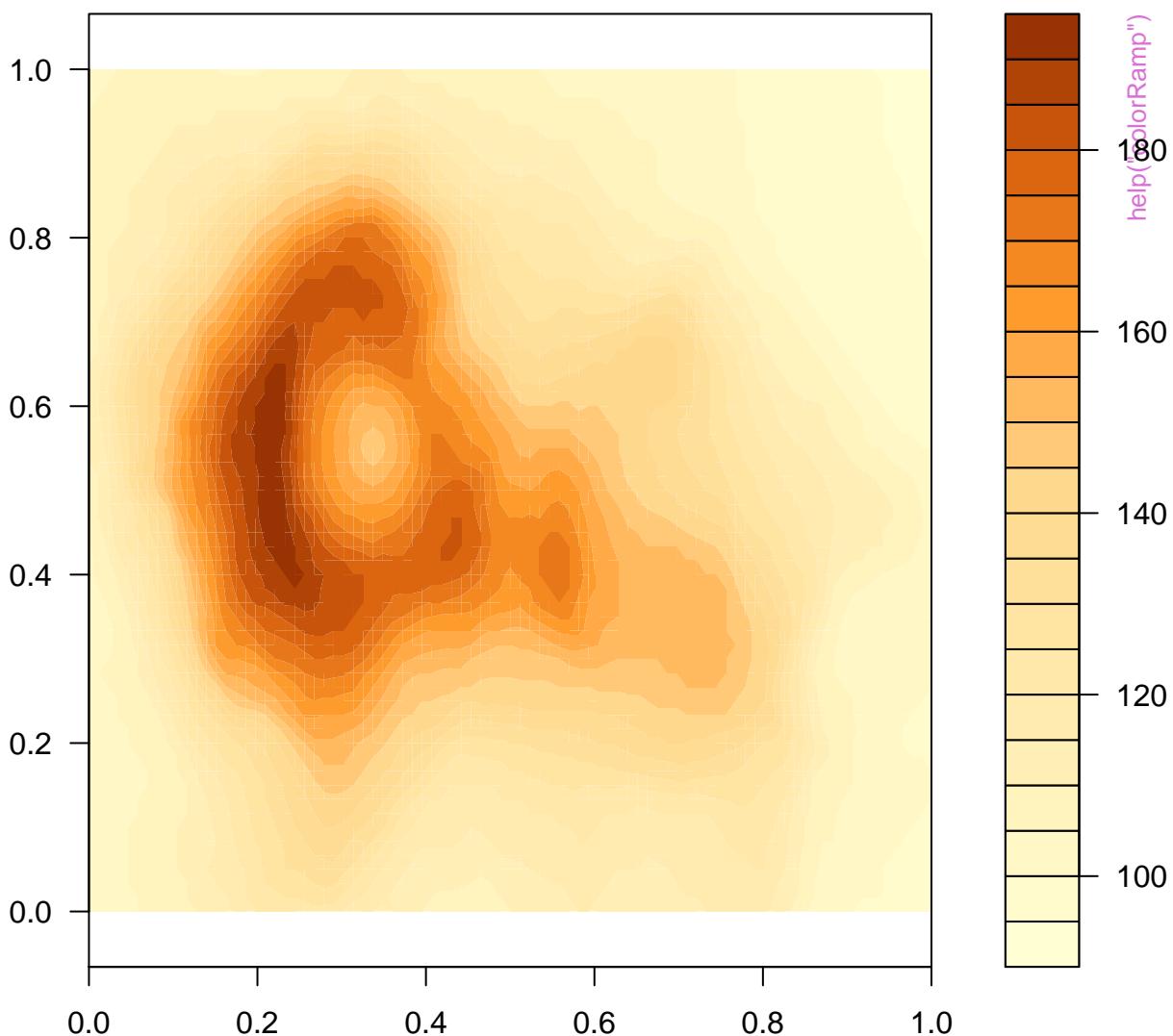
help("axisTicks")











help("colorRamp")

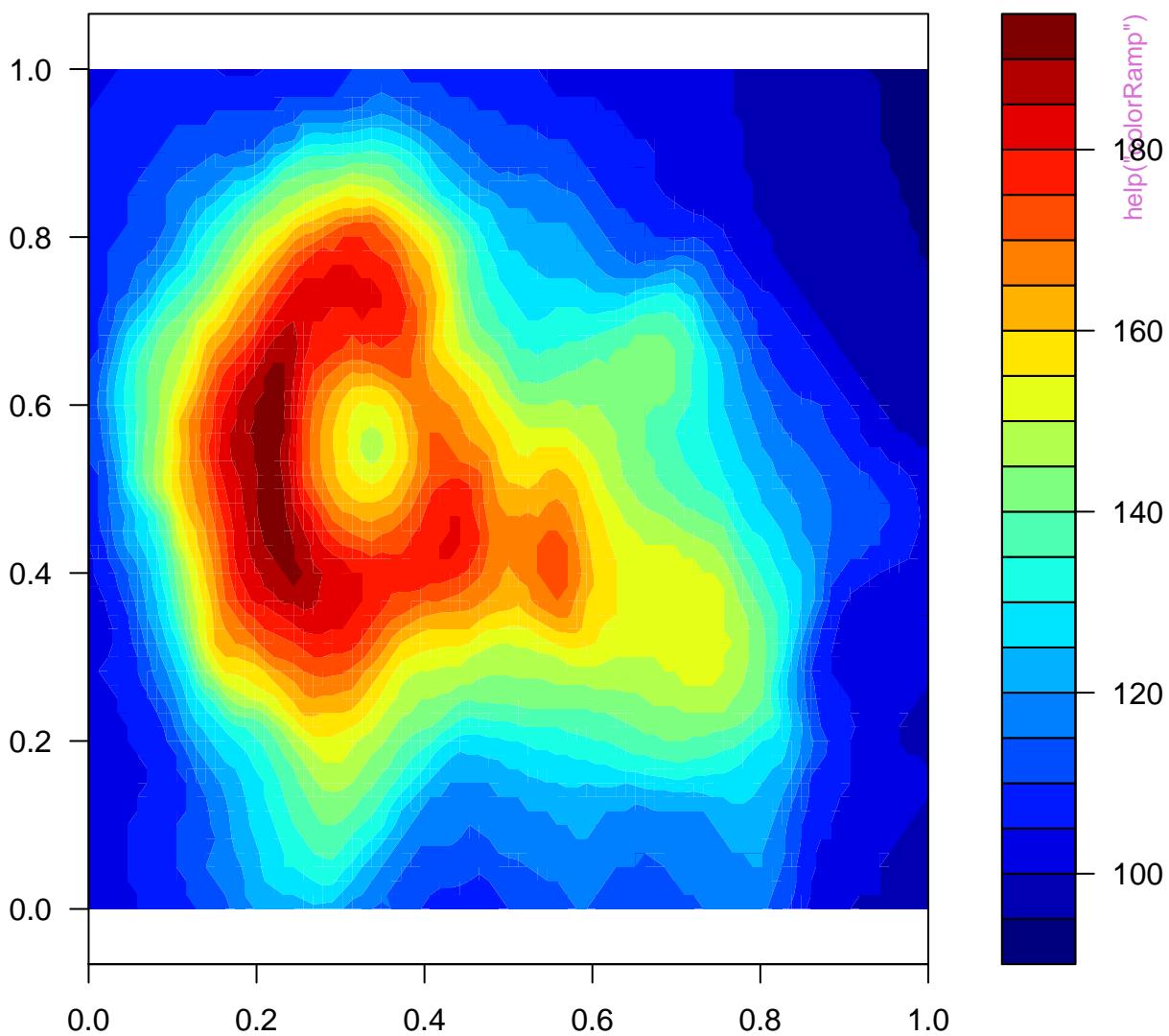
180

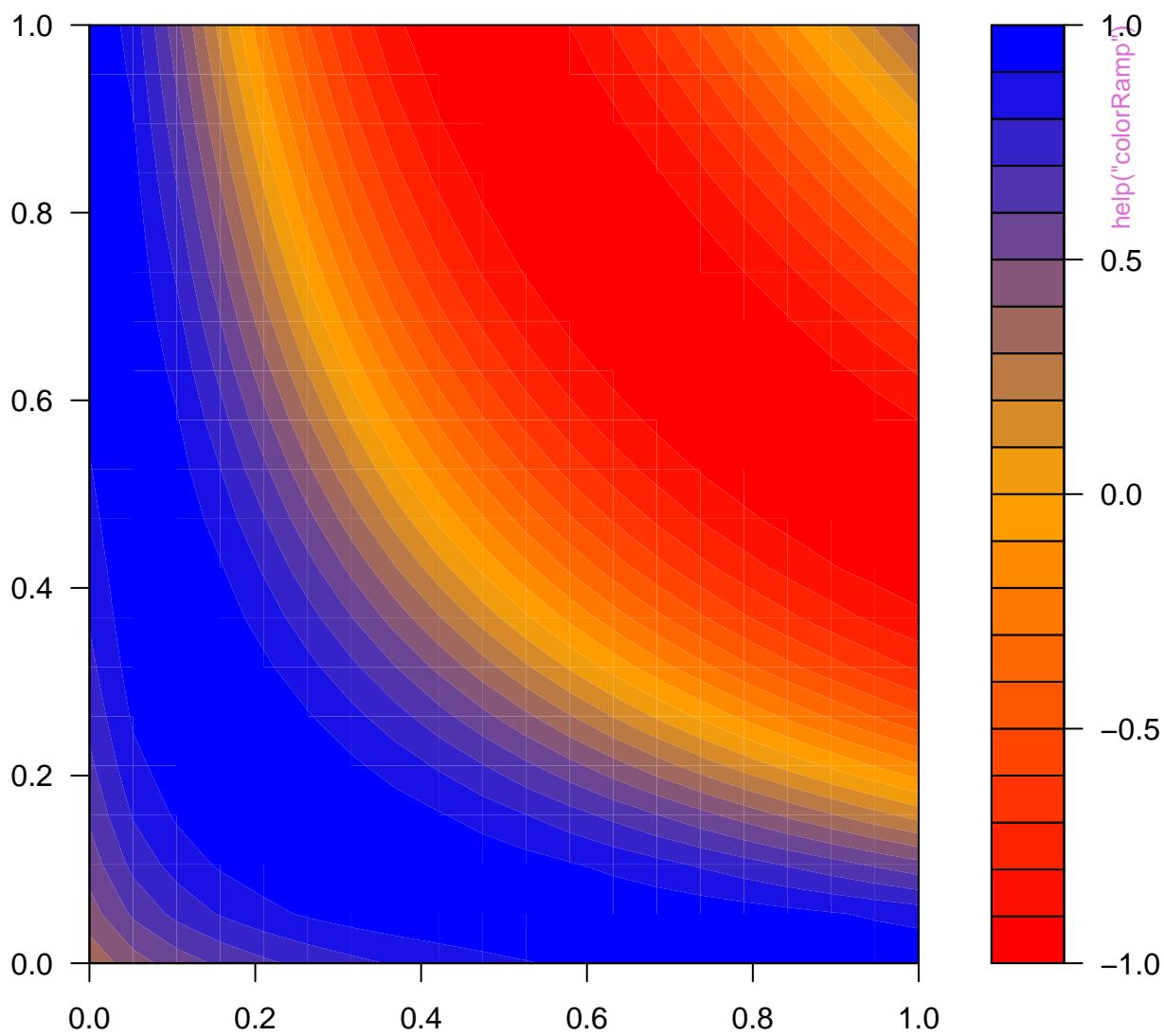
160

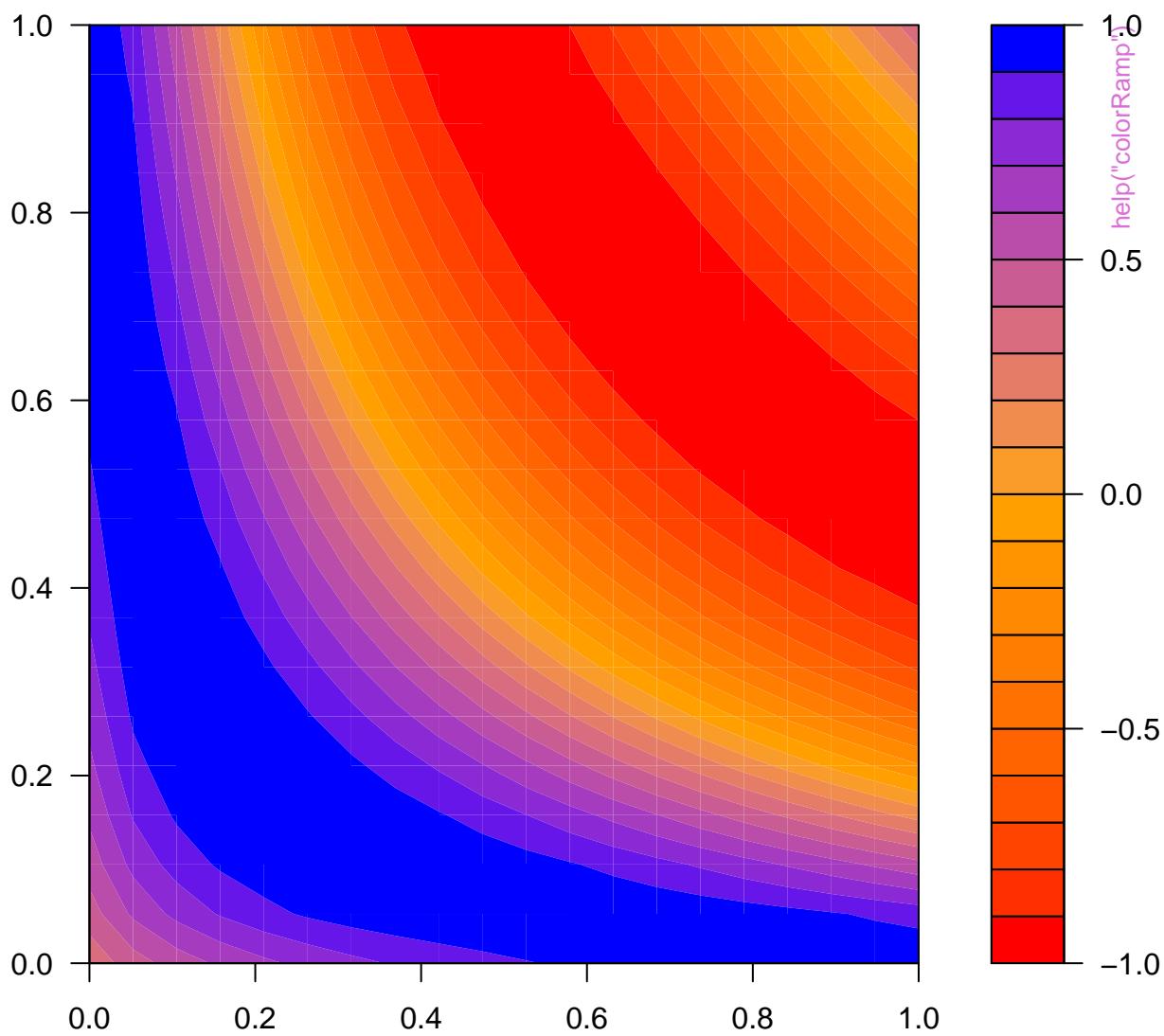
140

120

100









```
help("colors")
```

```
help("colors")
```

help("colors")

#CC8C3C	chocolate2	chocolate3	chocolate4	darkorange	darkorange1	darkorange2
arkgoldenrod	darkgoldenrod	orange	orange1	sandybrown	tan1	tan2

help("colors")

deepskyblue

deepskyblue2

turquoise2

darkturquoise

cyan2

```
help("colors")
```

deepskyblue

turquoise1

cyan

deepskyblue2

turquoise2

cyan2

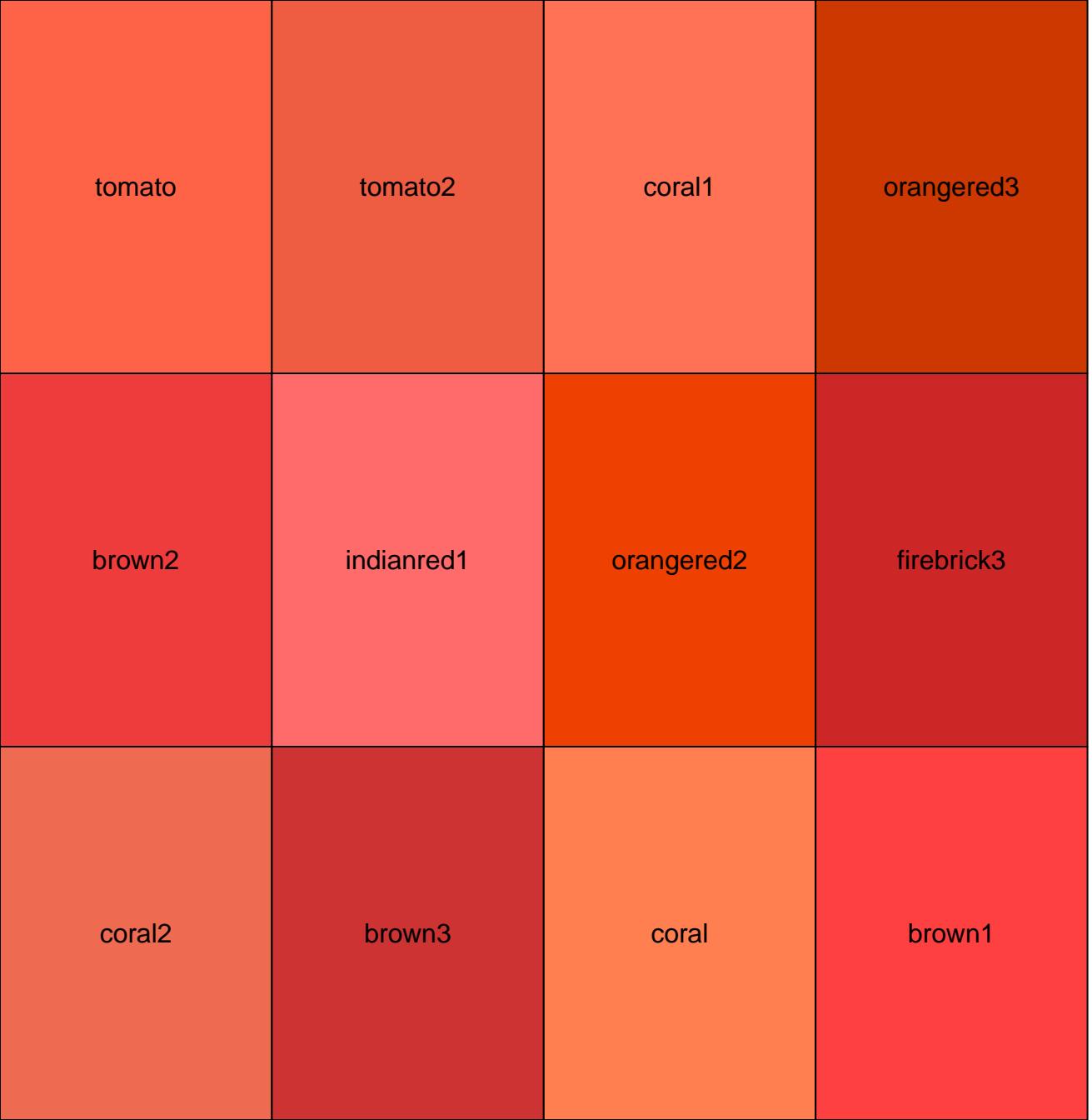
help("colors")

tomato	tomato2	coral2	coral1	sienna2
coral	sienna1	indianred2	brown1	indianred1
salmon2	chocolate1	brown2	chocolate2	NA

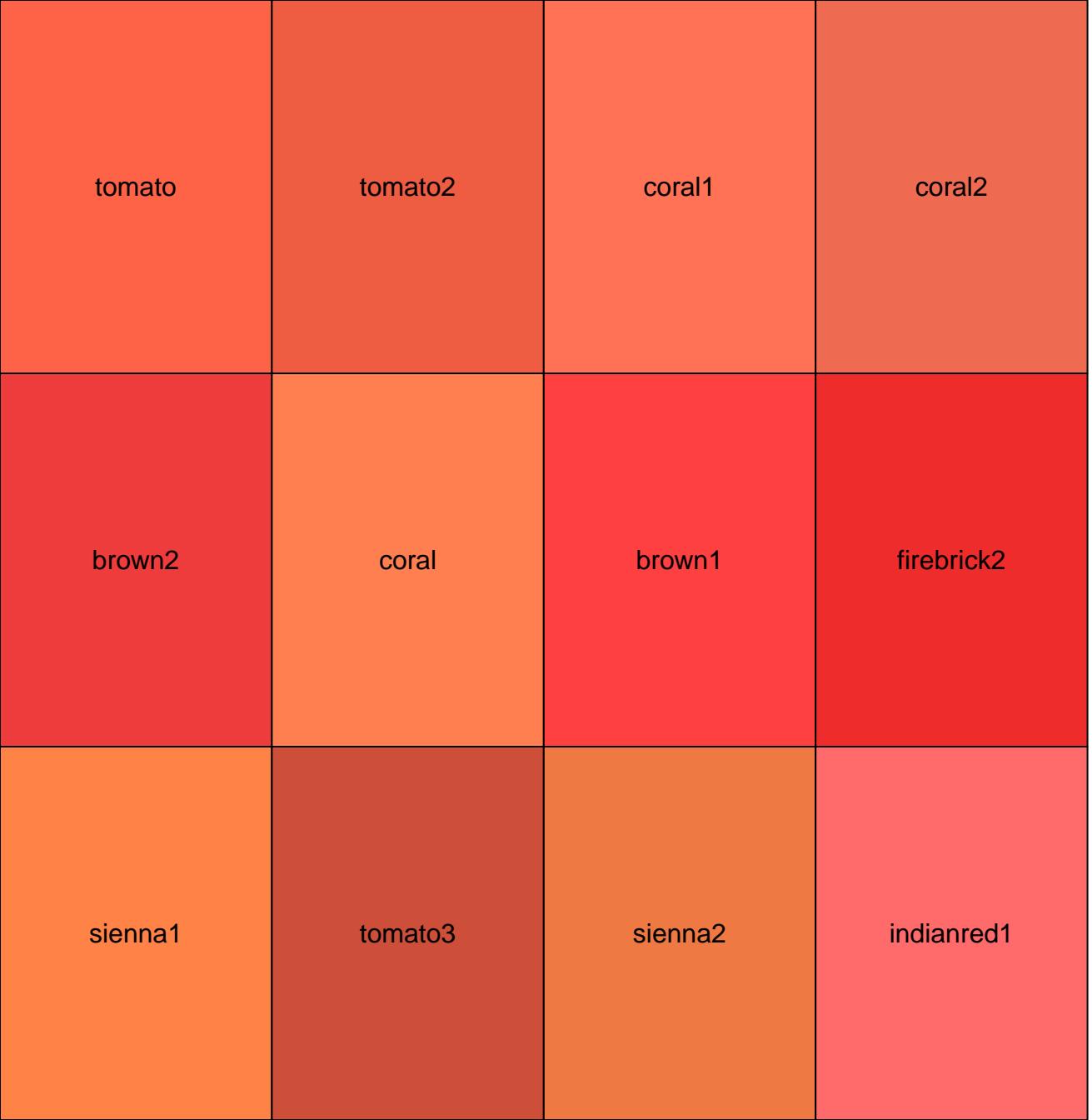
help("colors")

tomato	sienna1	brown1	coral	coral1
tan1	tomato2	sienna2	brown2	coral2
tan2	firebrick1	firebrick2	NA	NA

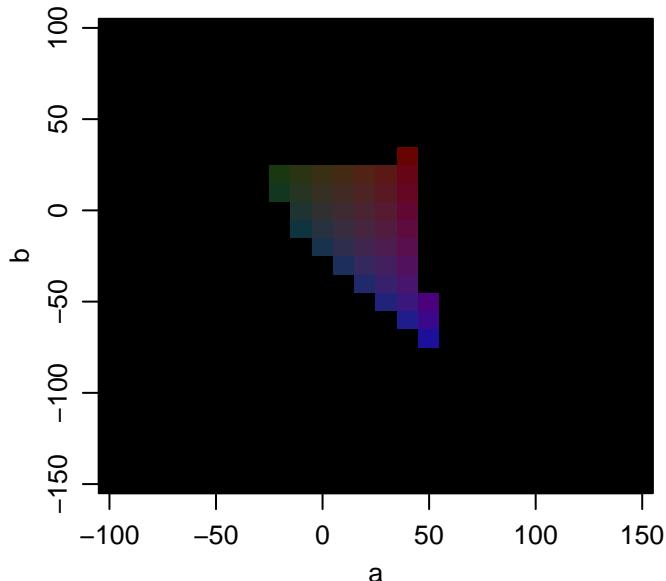
help("colors")



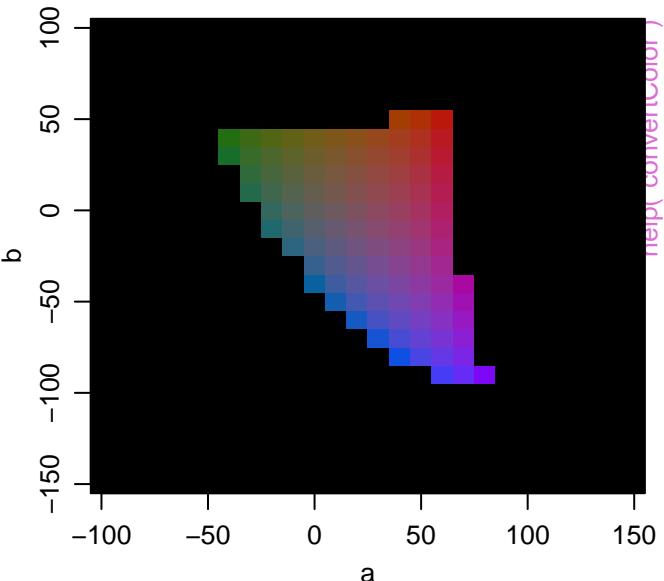
help("colors")



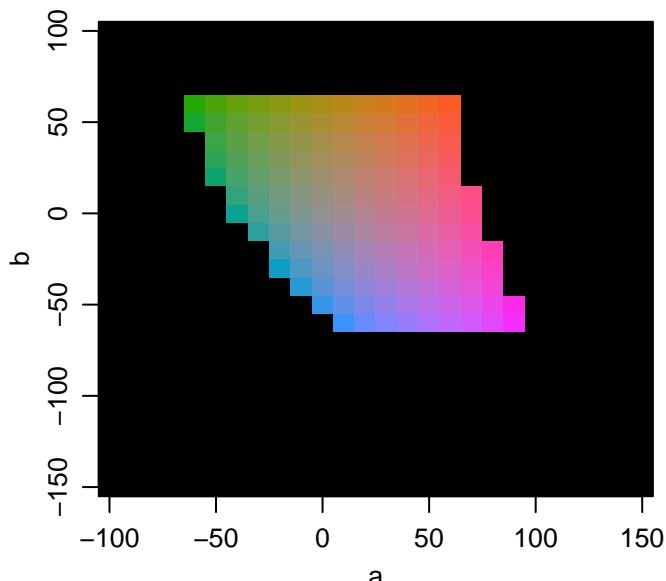
**Lab: L=20**



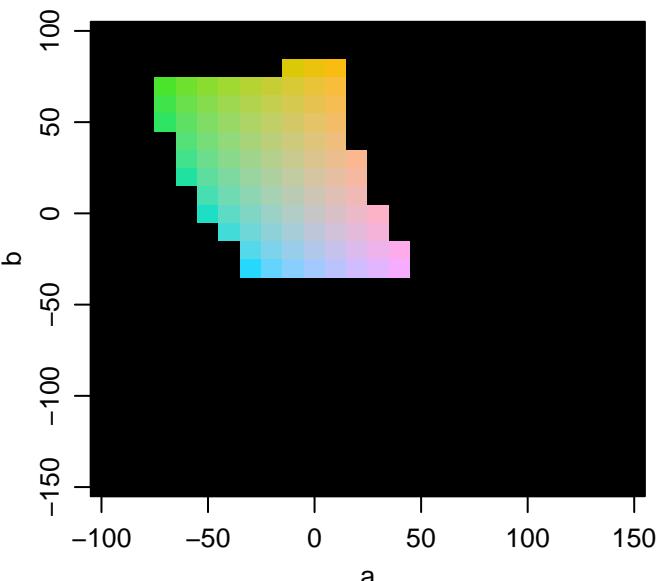
**Lab: L=40**



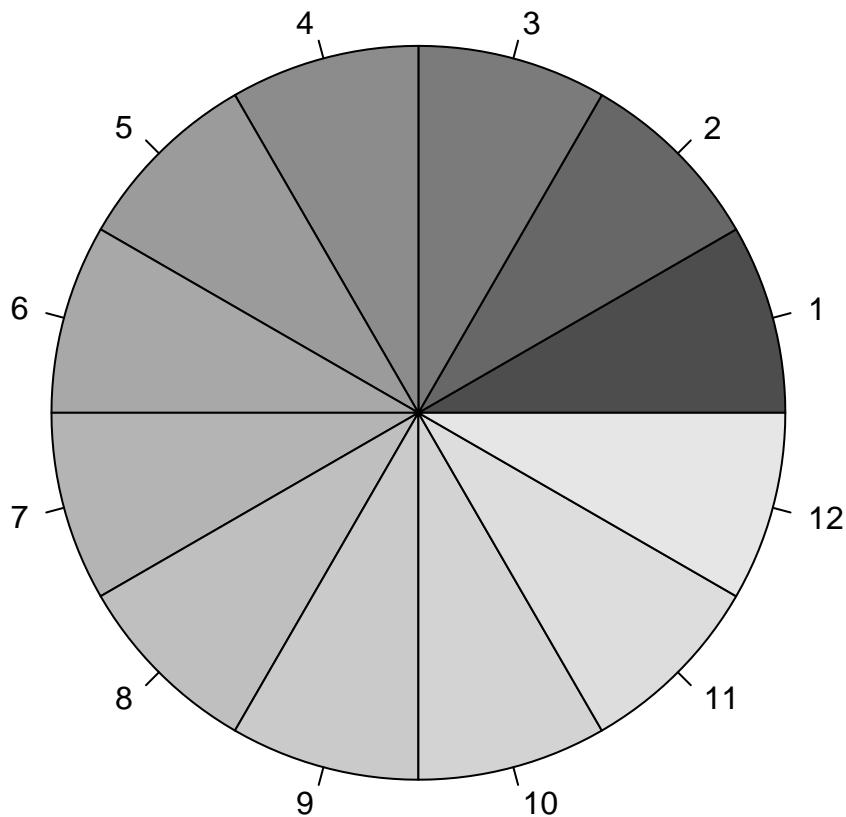
**Lab: L=60**



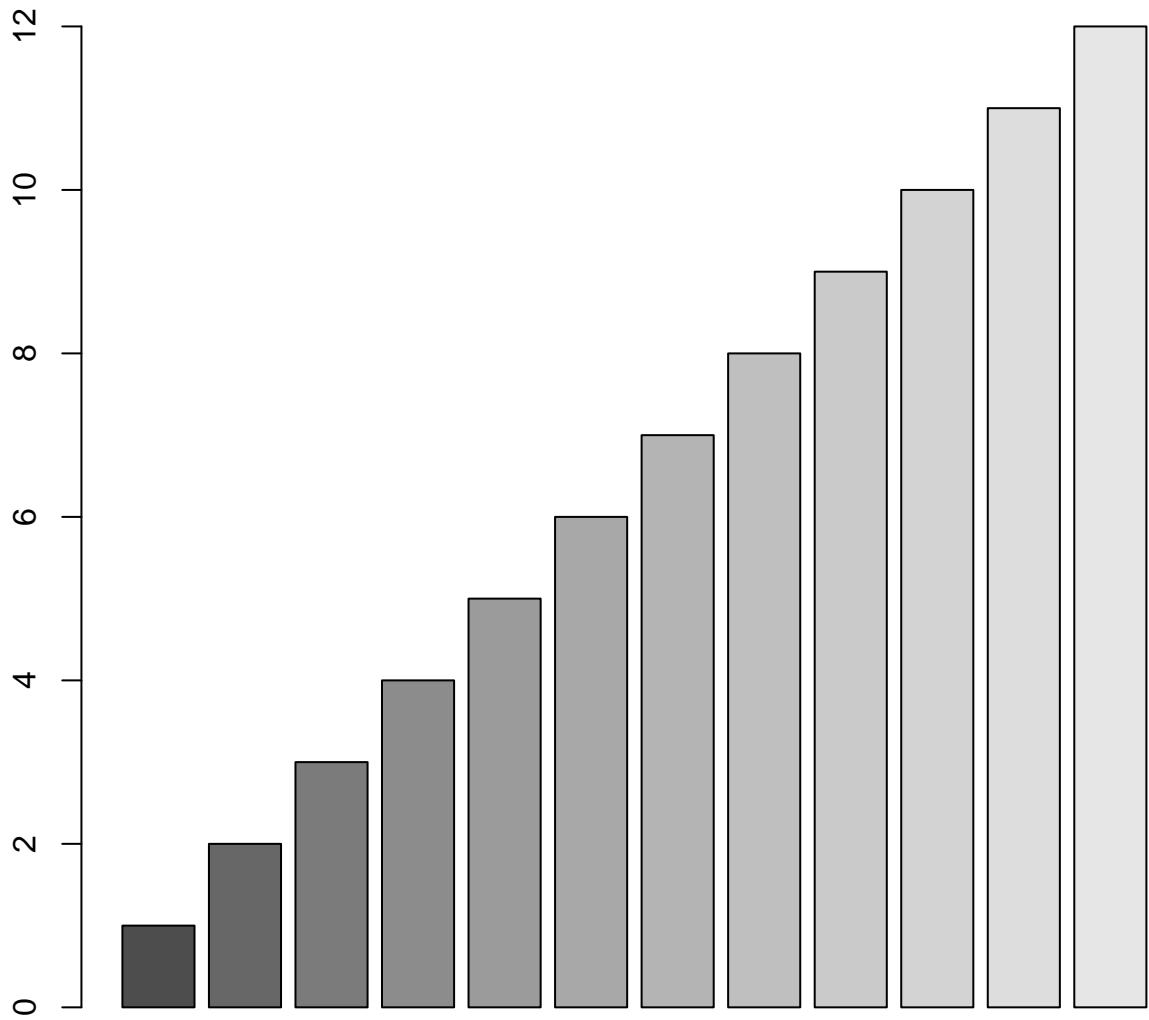
**Lab: L=80**



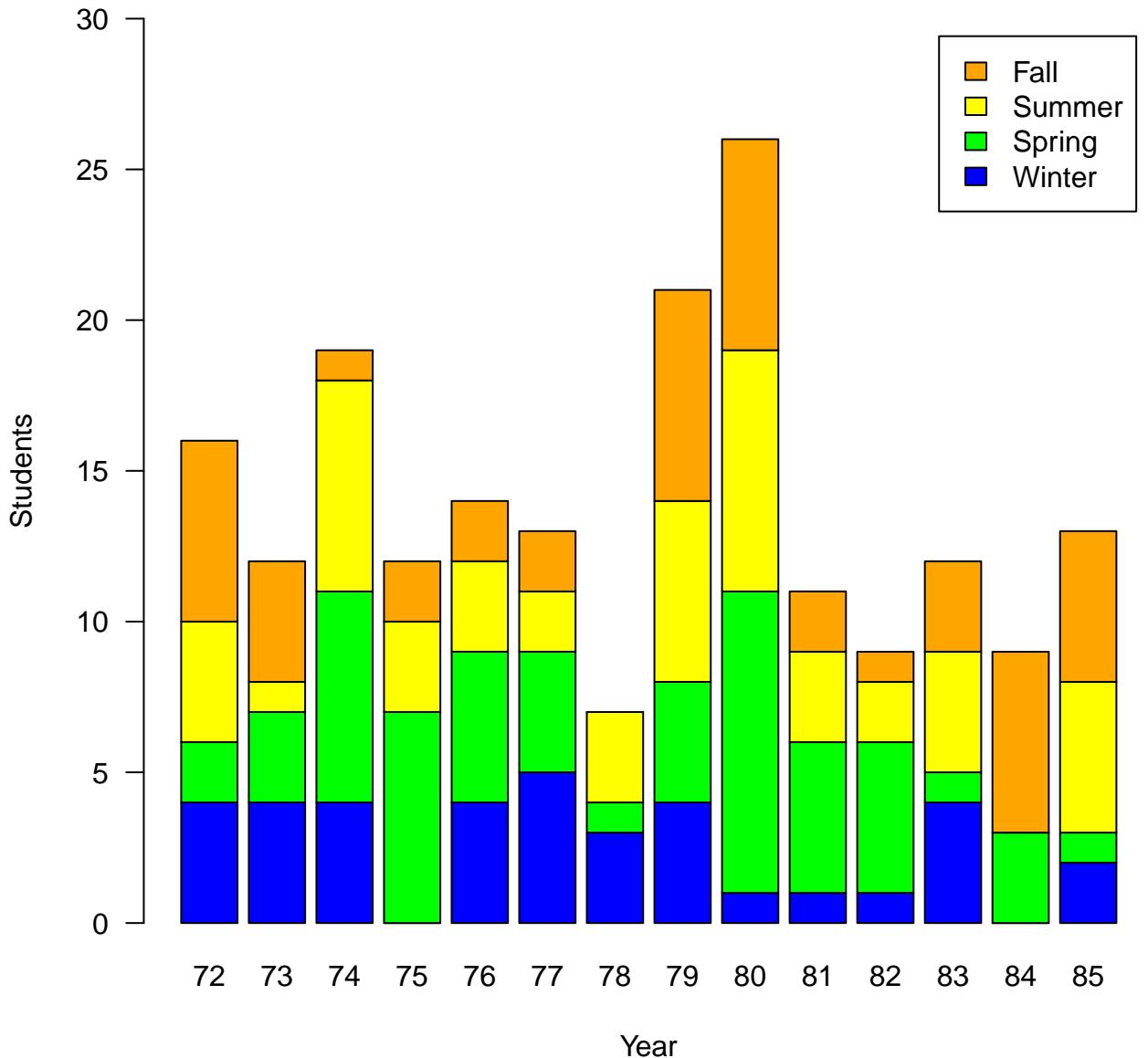
help("gray.colors")



```
help("gray.colors")
```

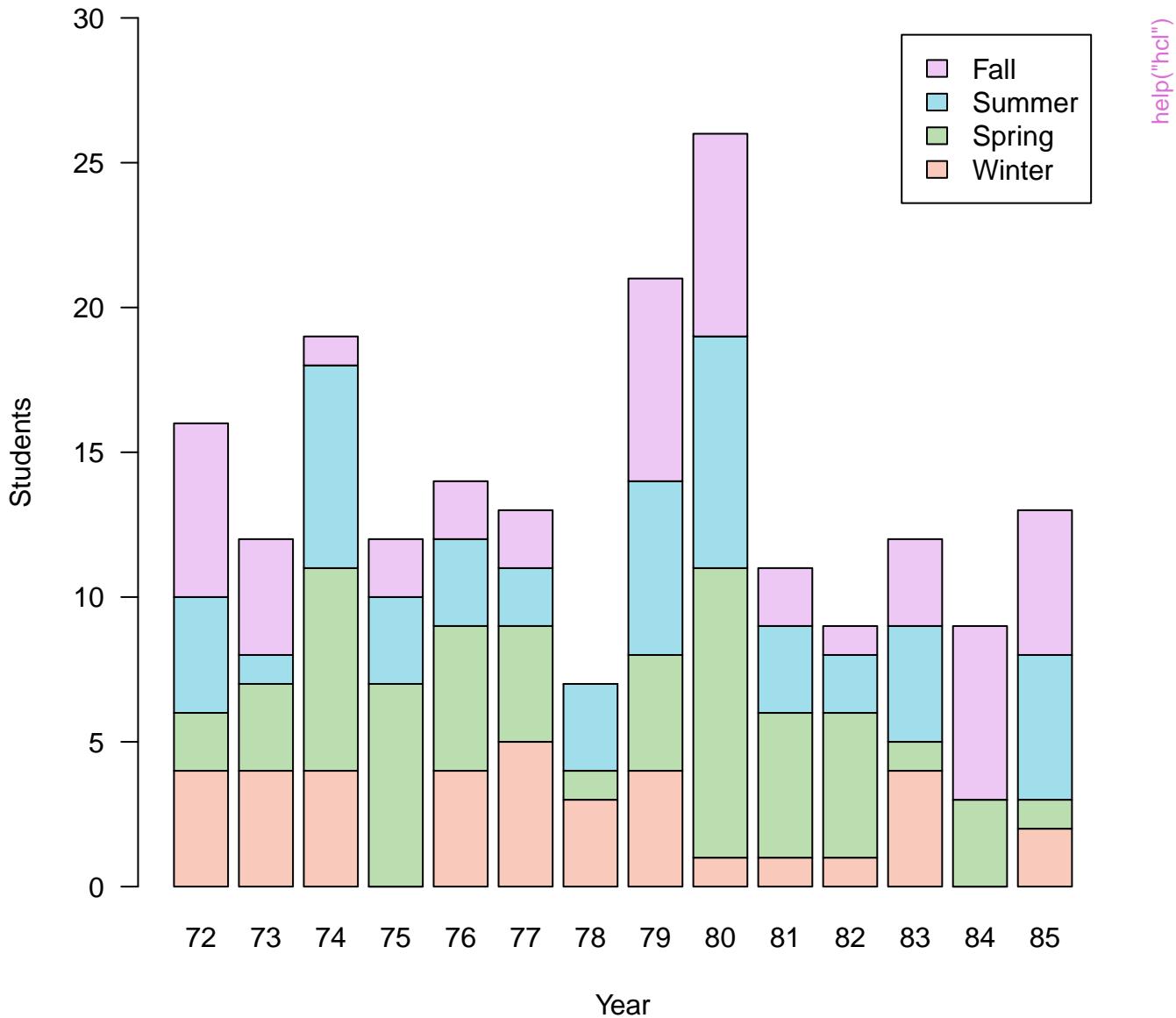


# Computer Science PhD Graduates

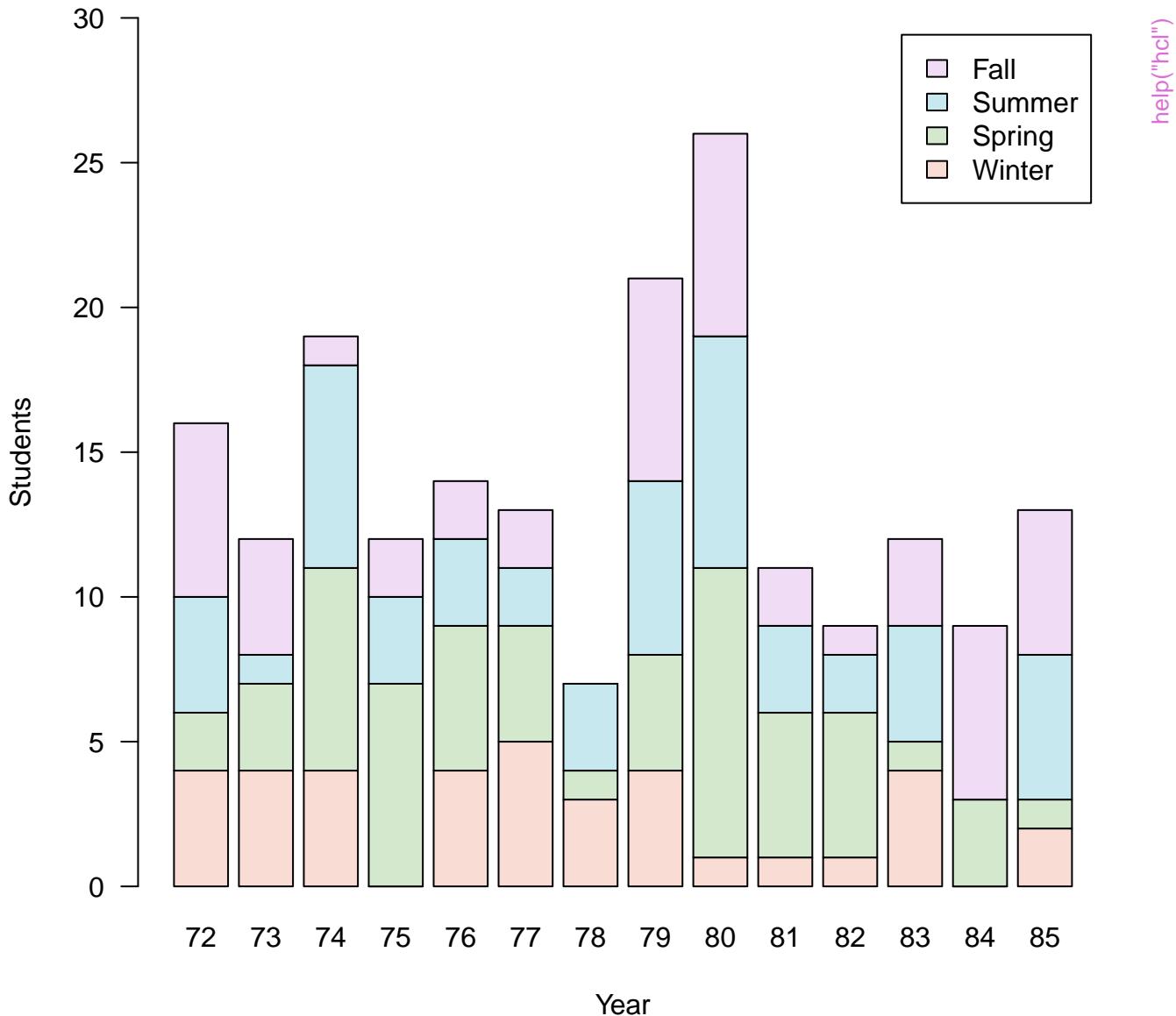


help("hcl")

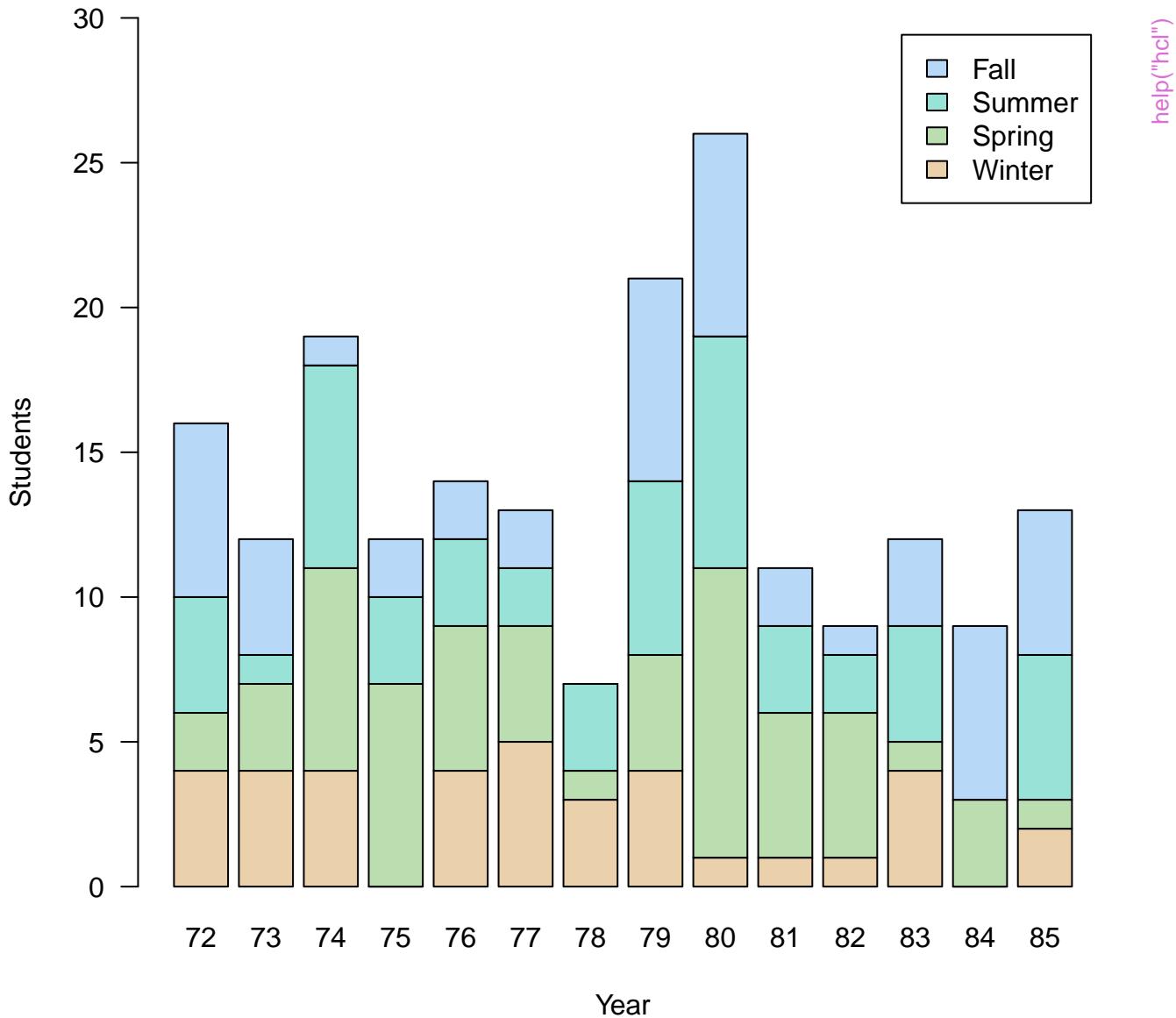
# Computer Science PhD Graduates



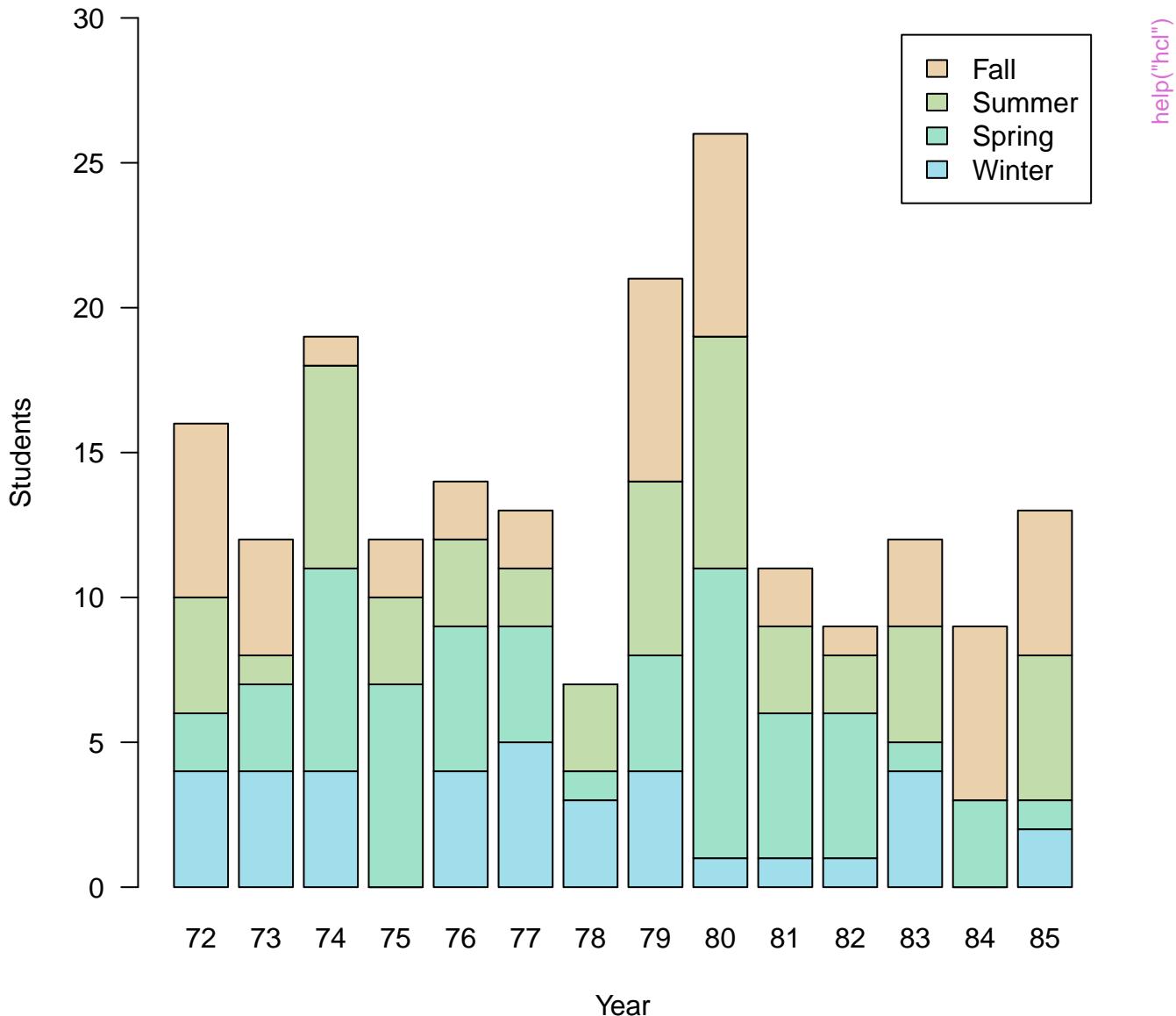
# Computer Science PhD Graduates



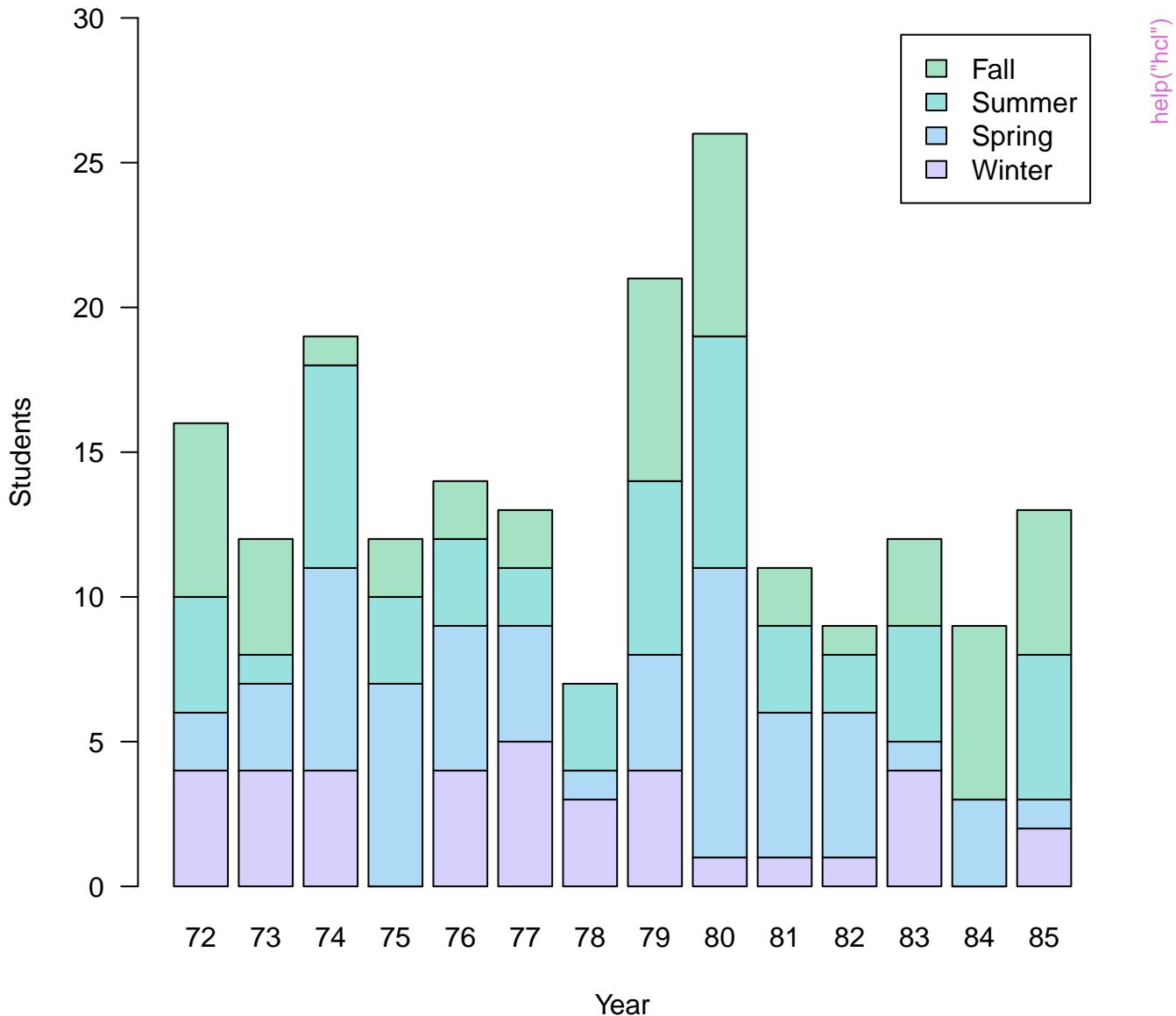
# Computer Science PhD Graduates



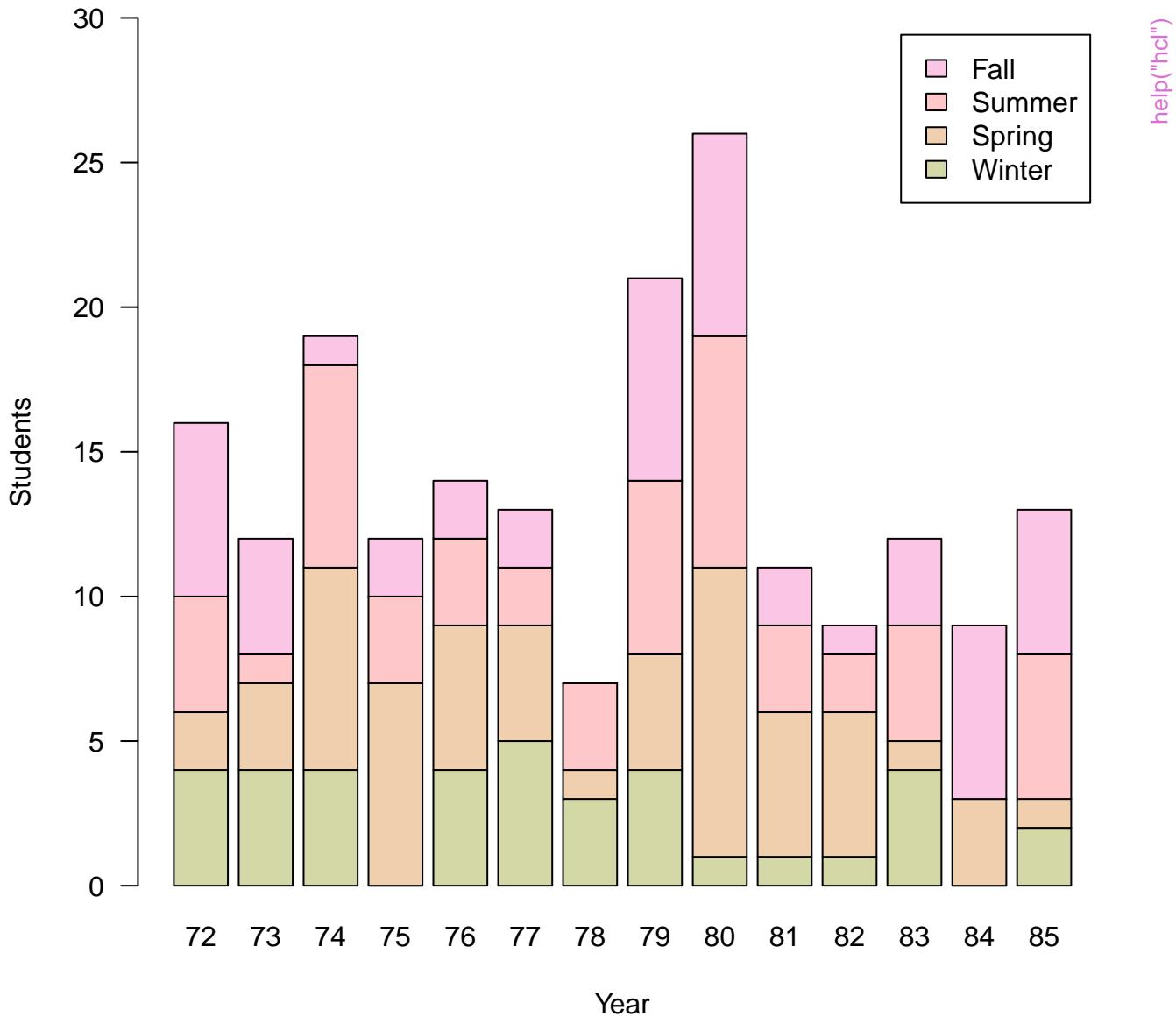
# Computer Science PhD Graduates



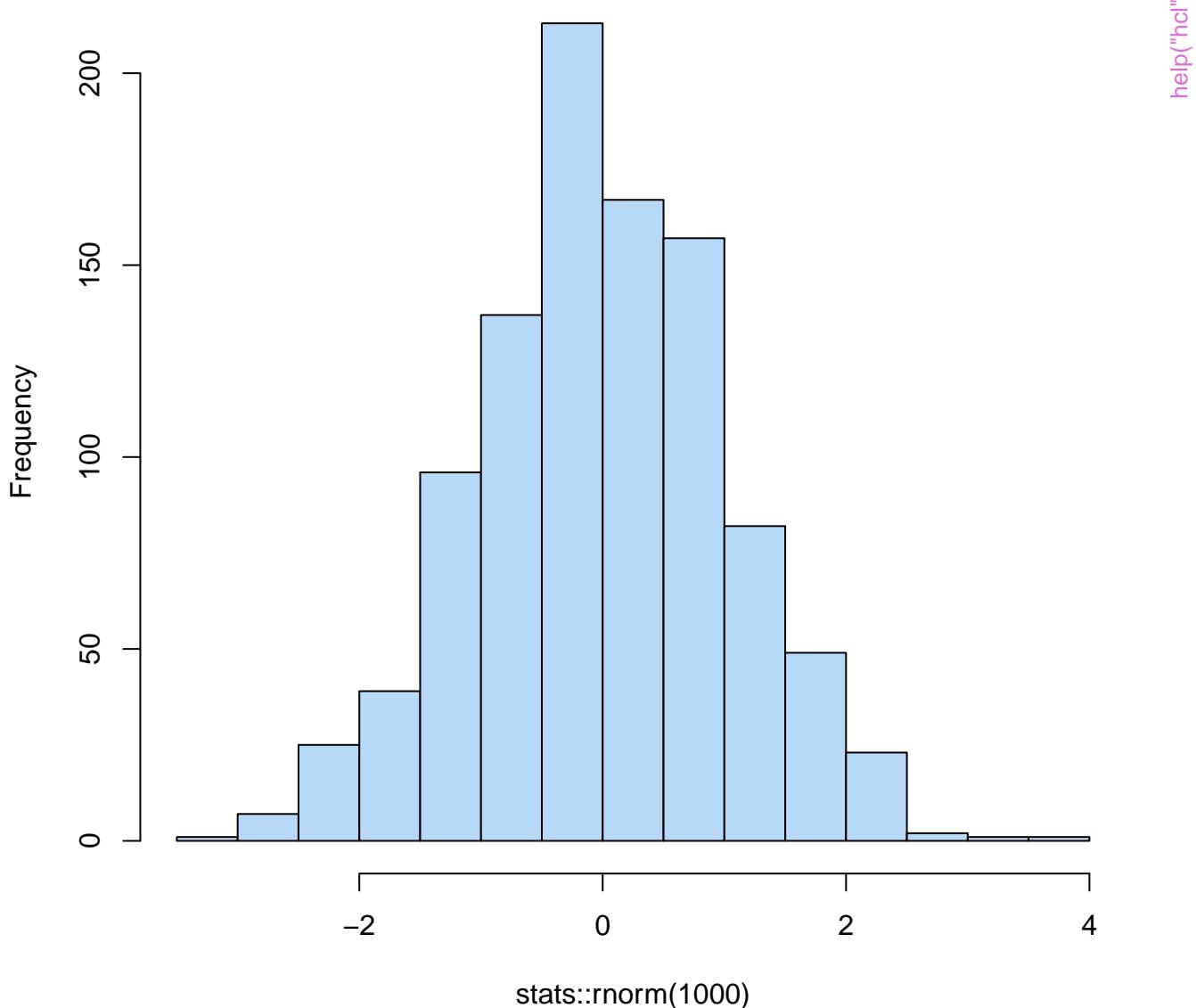
# Computer Science PhD Graduates

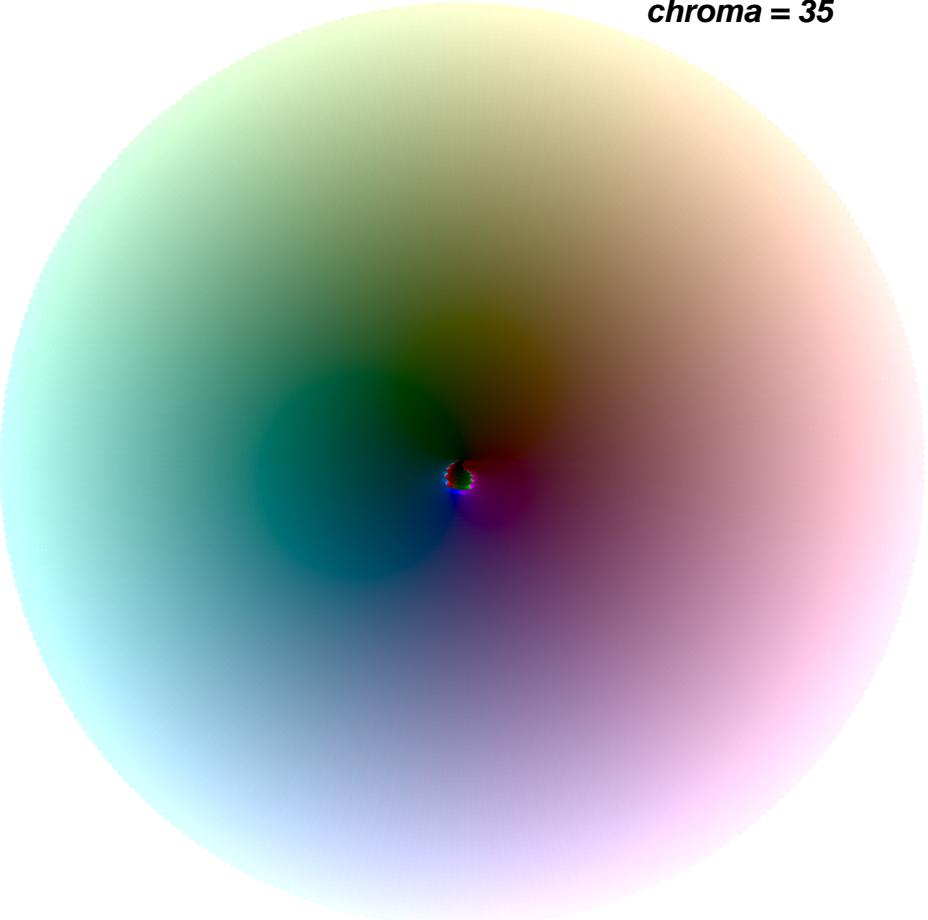


# Computer Science PhD Graduates



# Histogram of stats::rnorm(1000)



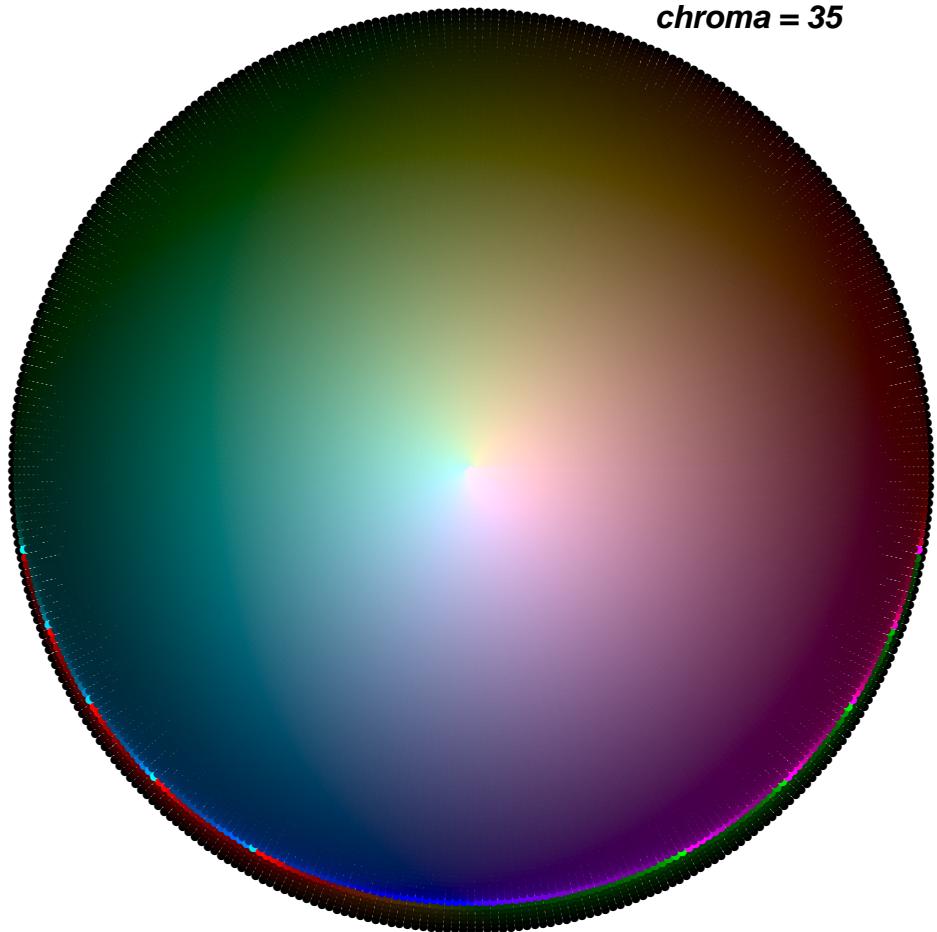


*chroma = 35*

A circular color wheel with a smooth gradient transitioning through all primary and secondary colors. The center is dark, and the outer edge is a lighter shade of gray.

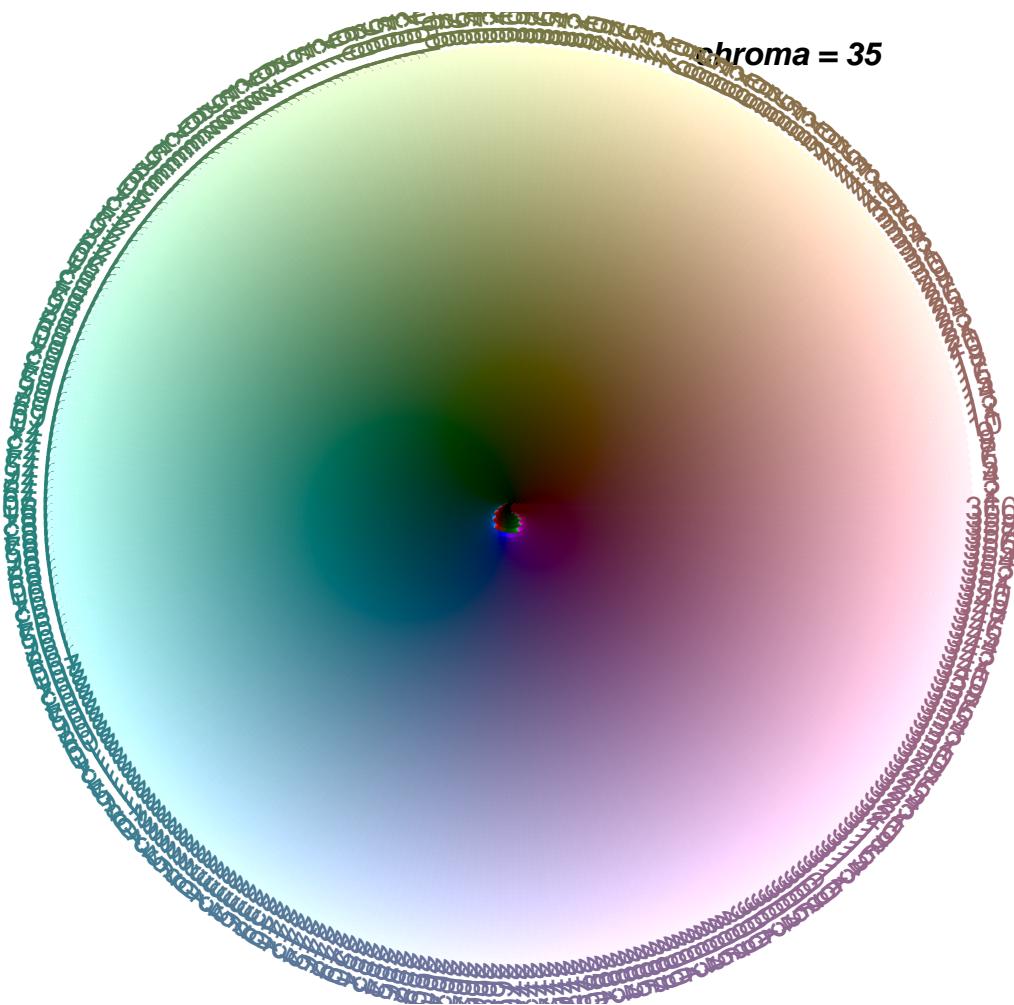
help("hcl")

*chroma = 35*



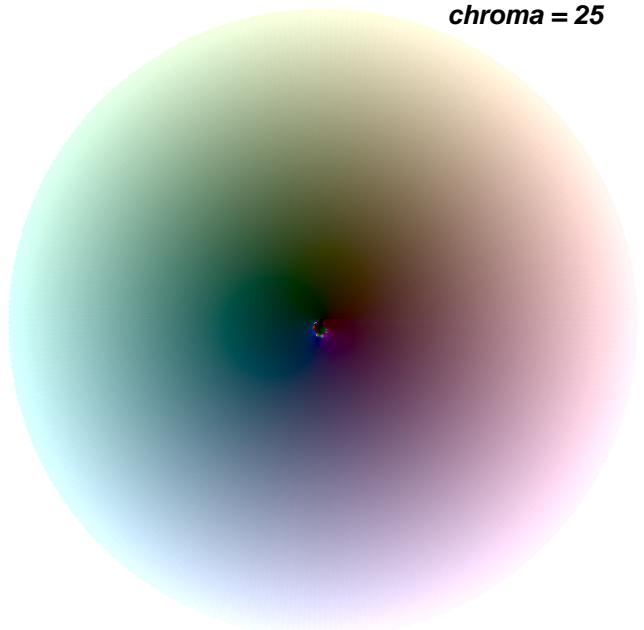
help("hcl")

**chroma = 35**

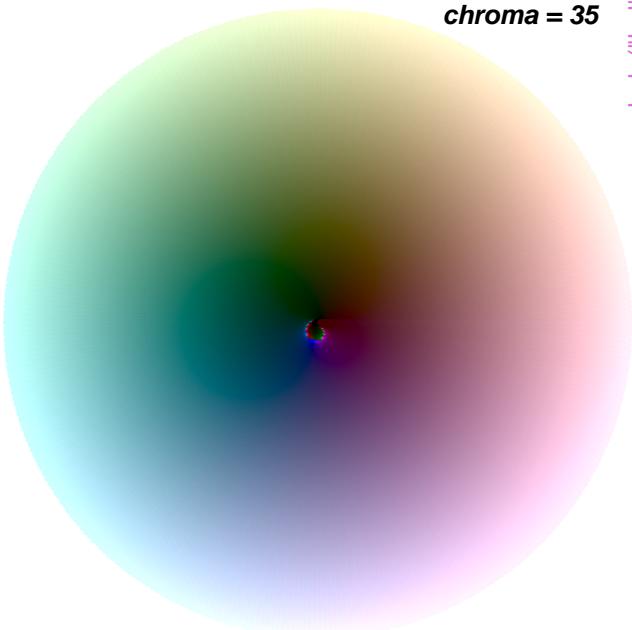


help("hcl")

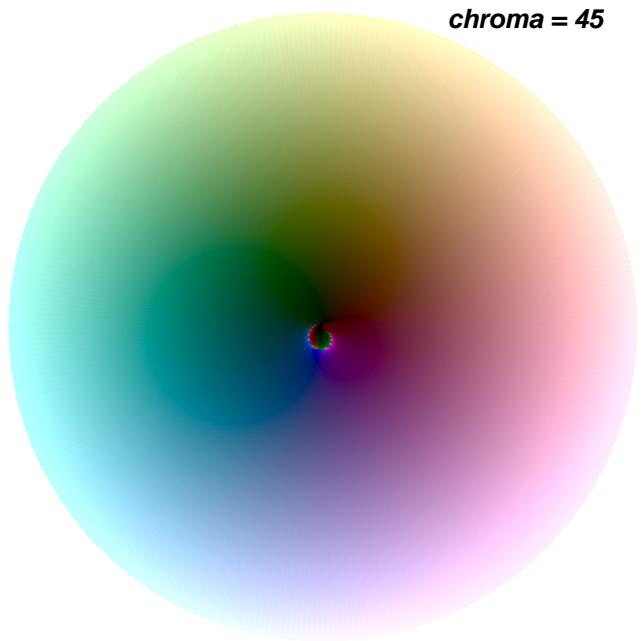
*chroma* = 25



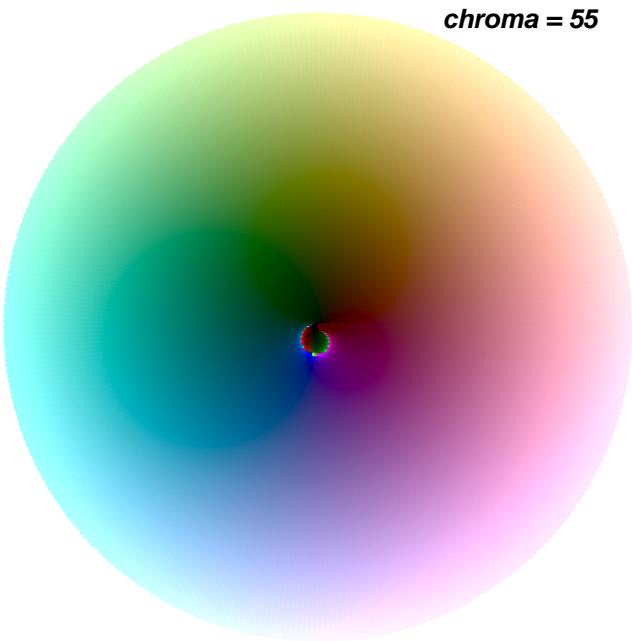
*chroma* = 35



*chroma* = 45



*chroma* = 55

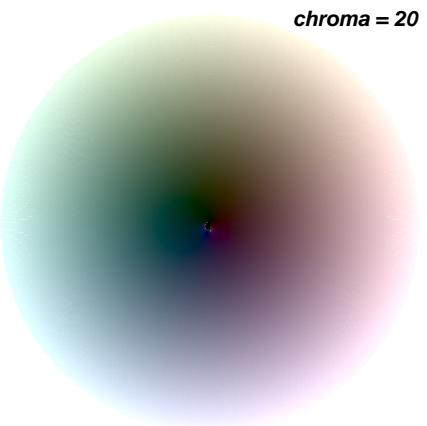


help("hcl")

*chroma = 10*



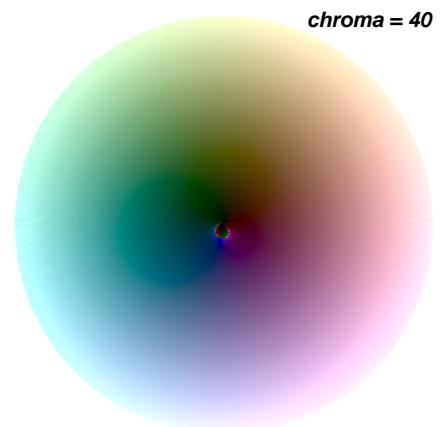
*chroma = 20*



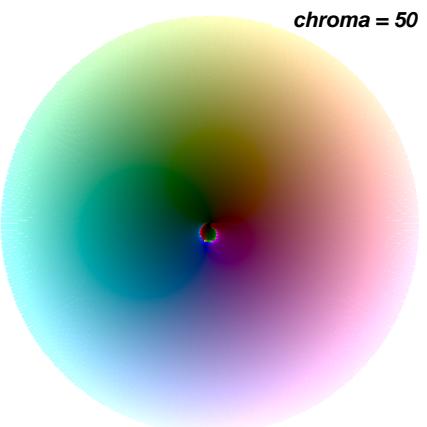
*chroma = 30*



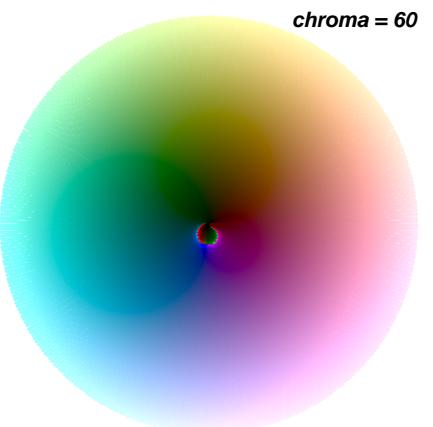
*chroma = 40*



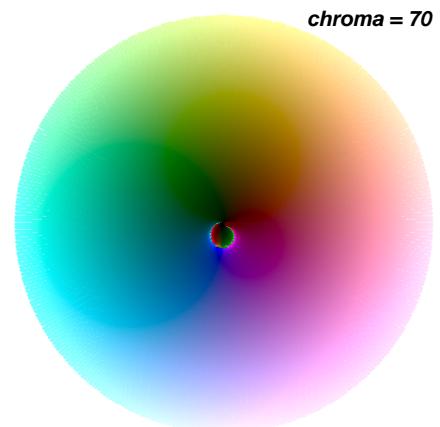
*chroma = 50*



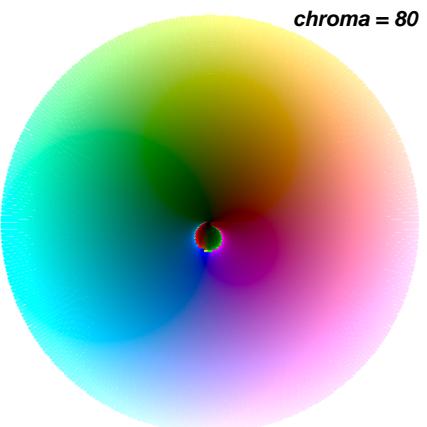
*chroma = 60*



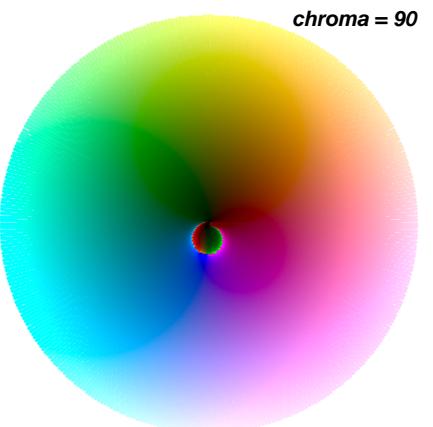
*chroma = 70*



*chroma = 80*

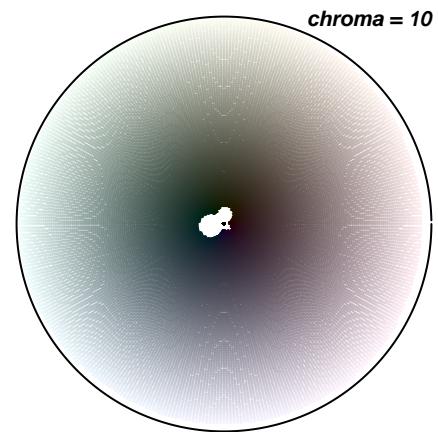


*chroma = 90*

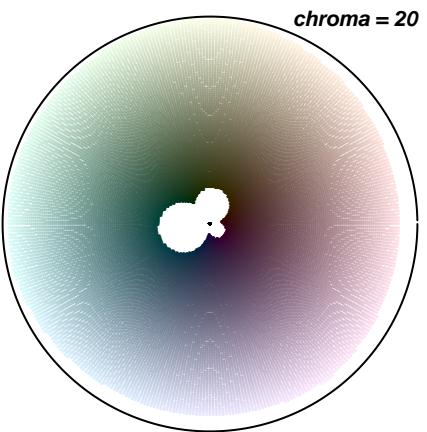


help("hcl")

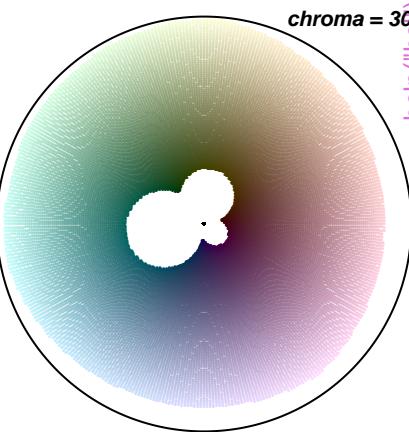
*chroma = 10*



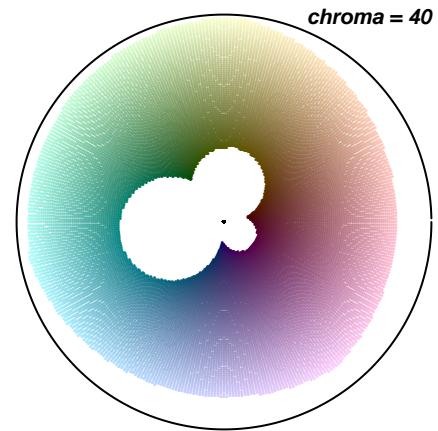
*chroma = 20*



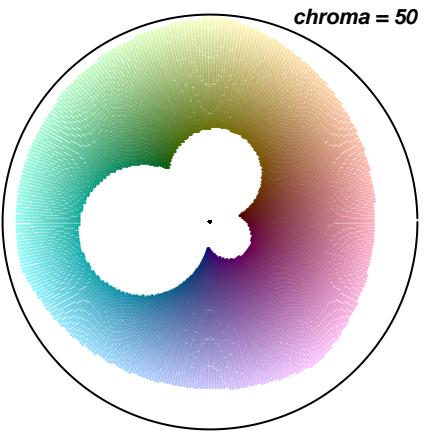
*chroma = 30*



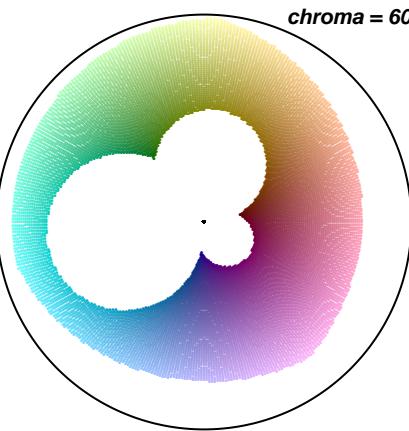
*chroma = 40*



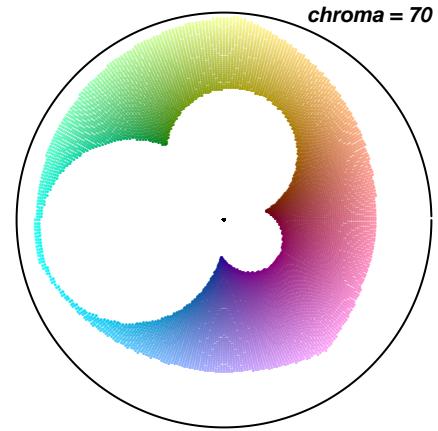
*chroma = 50*



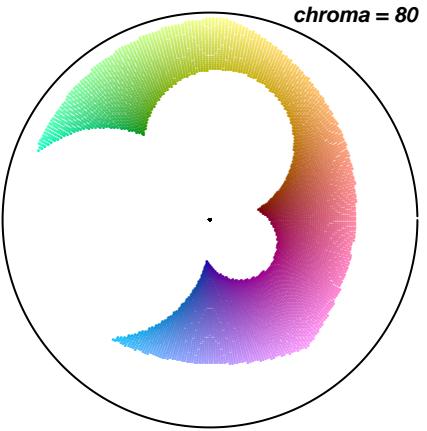
*chroma = 60*



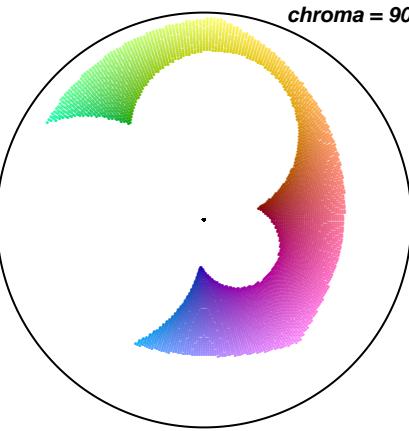
*chroma = 70*



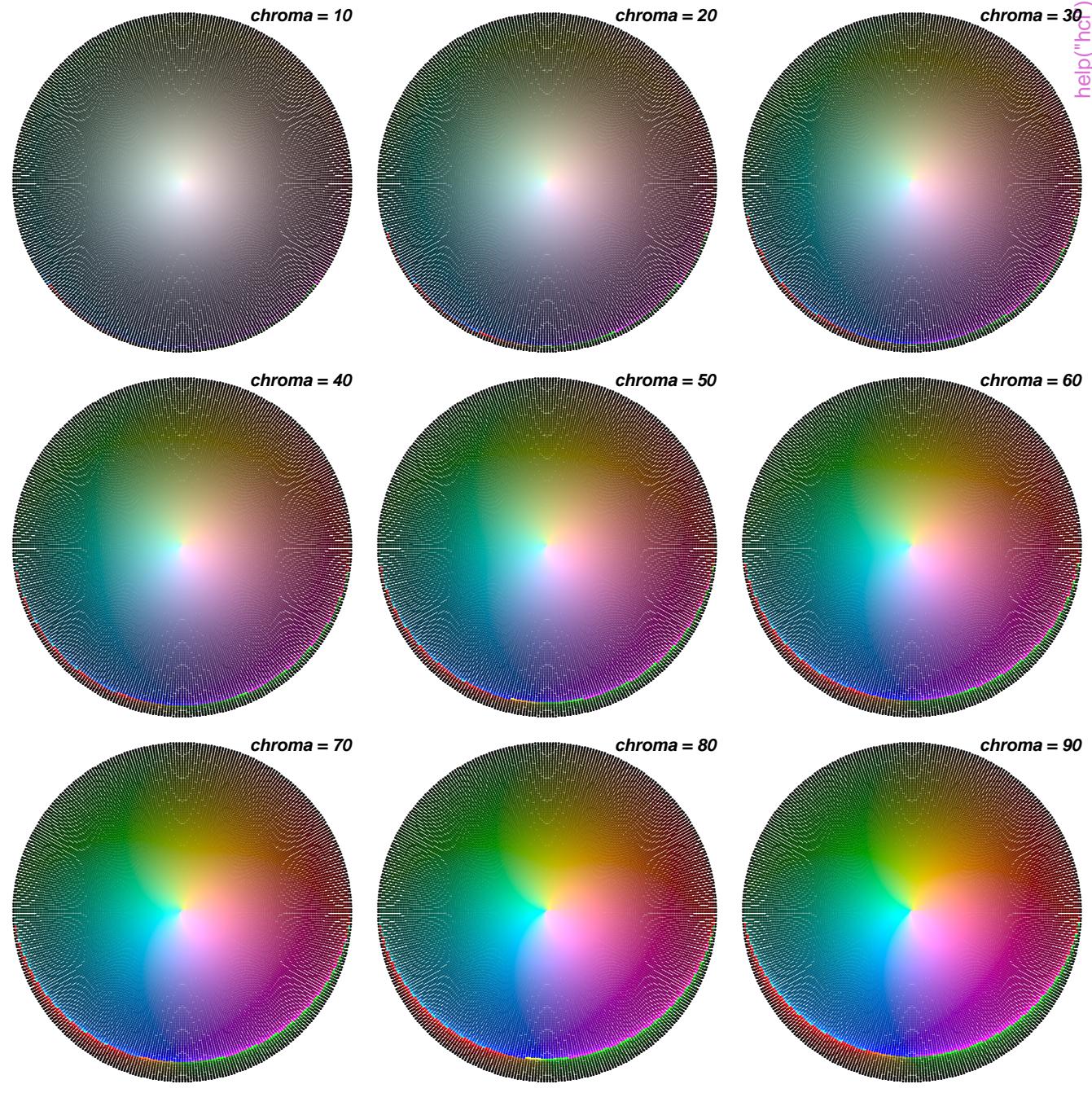
*chroma = 80*

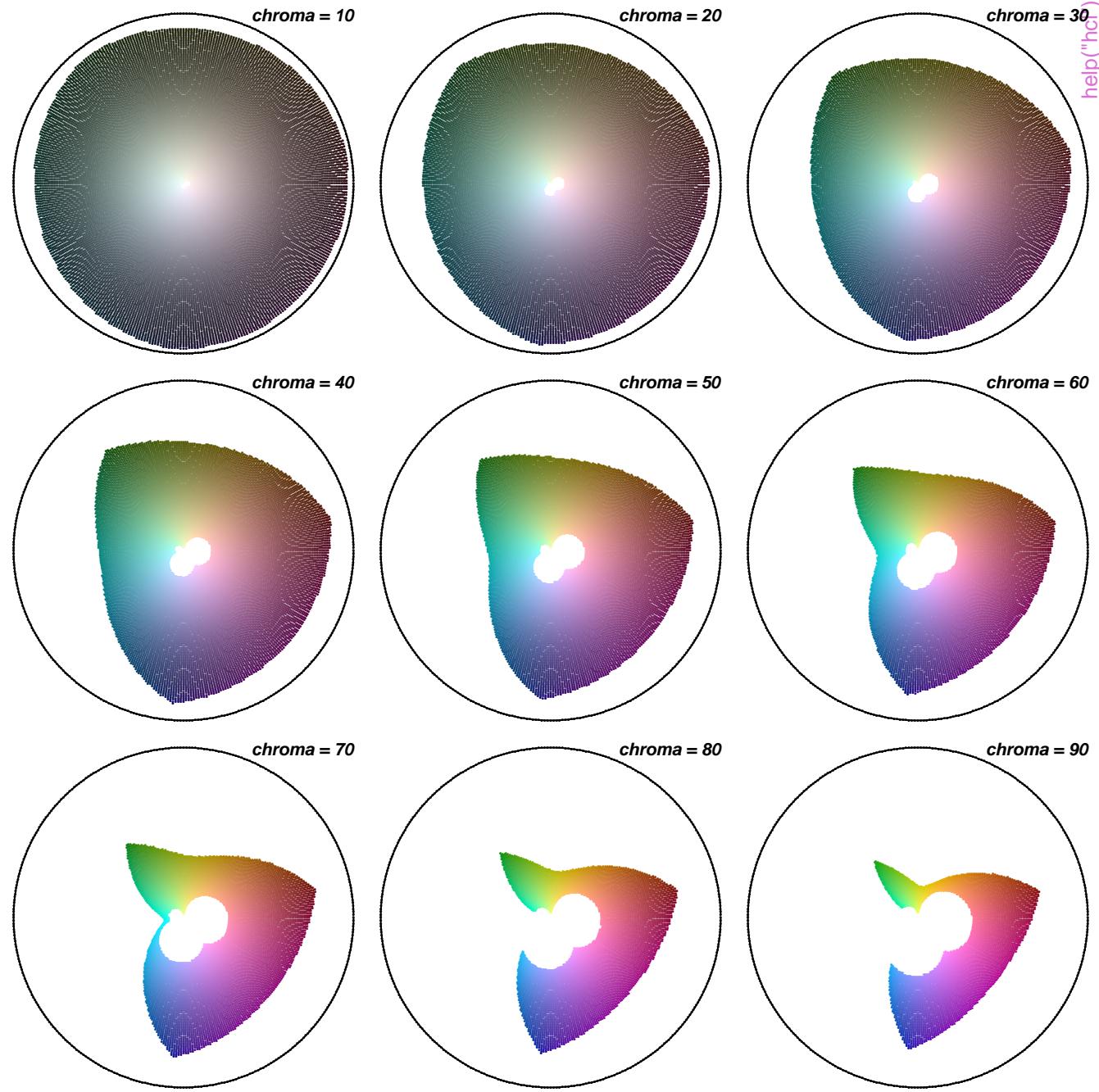


*chroma = 90*

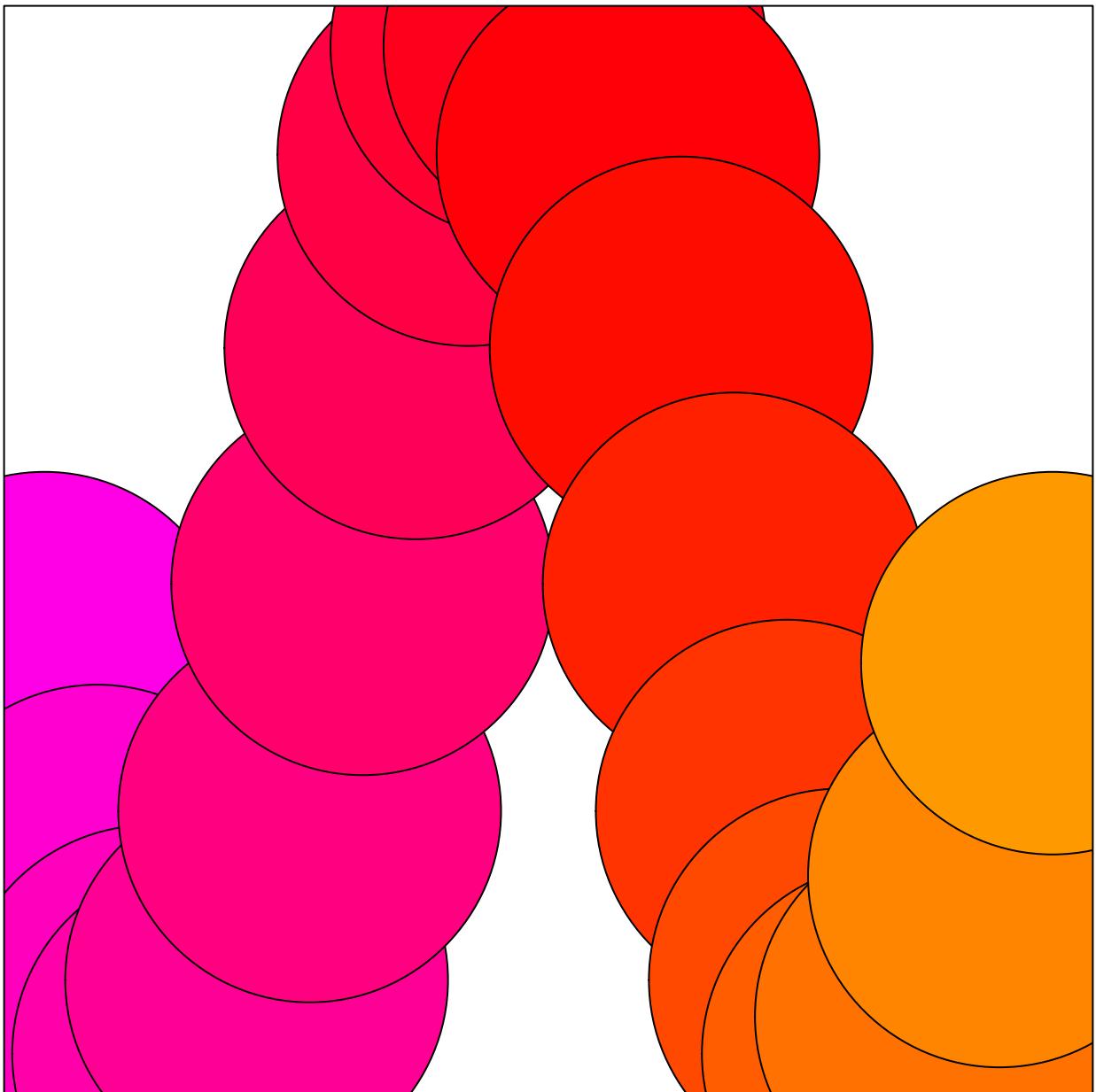


help("hcl")





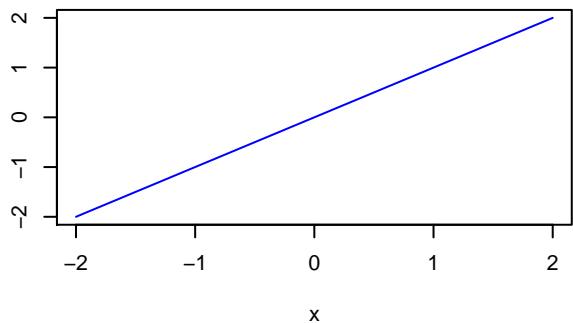
# Red tones



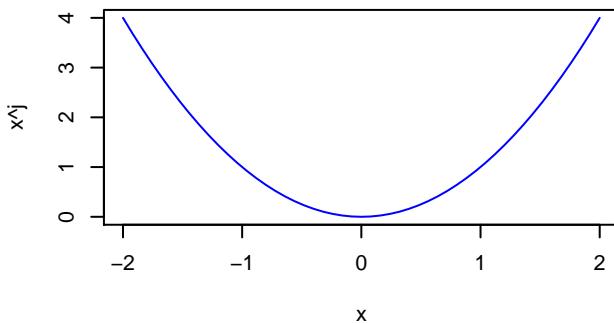
help("hsv")

help("n2mfrow")

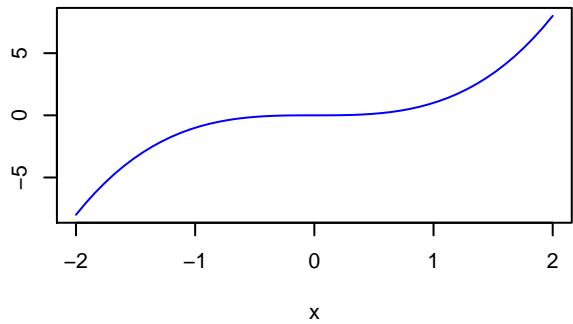
$x^1$



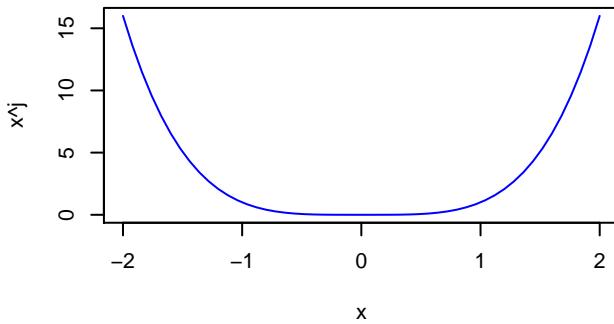
$x^2$



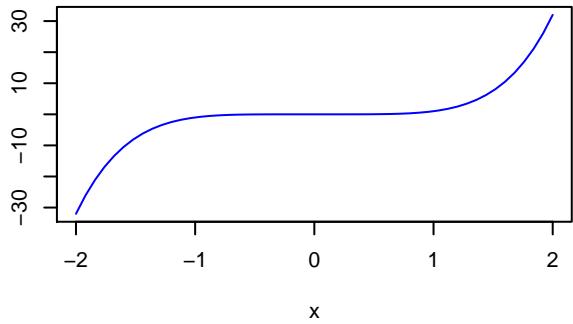
$x^3$



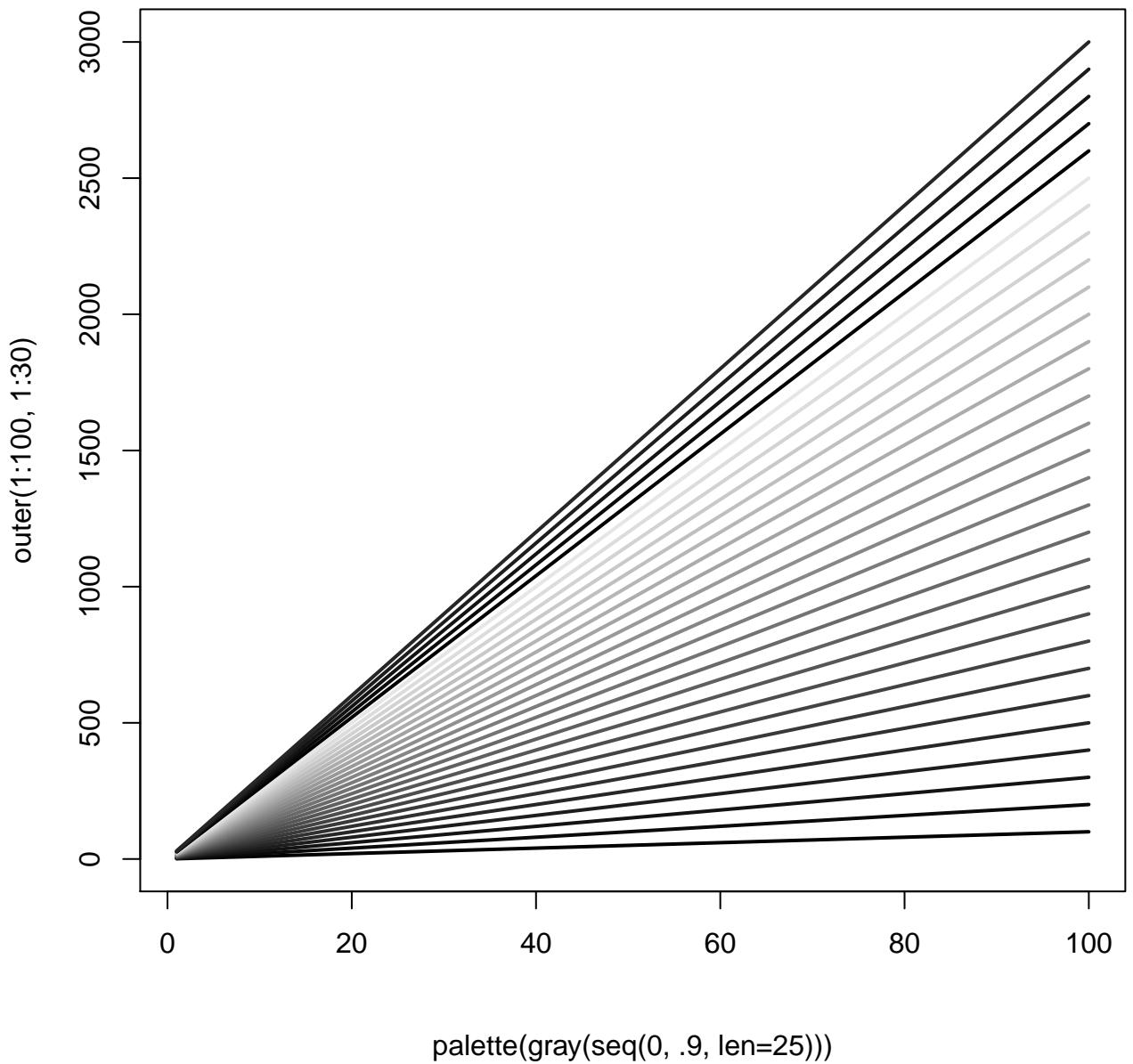
$x^4$



$x^5$

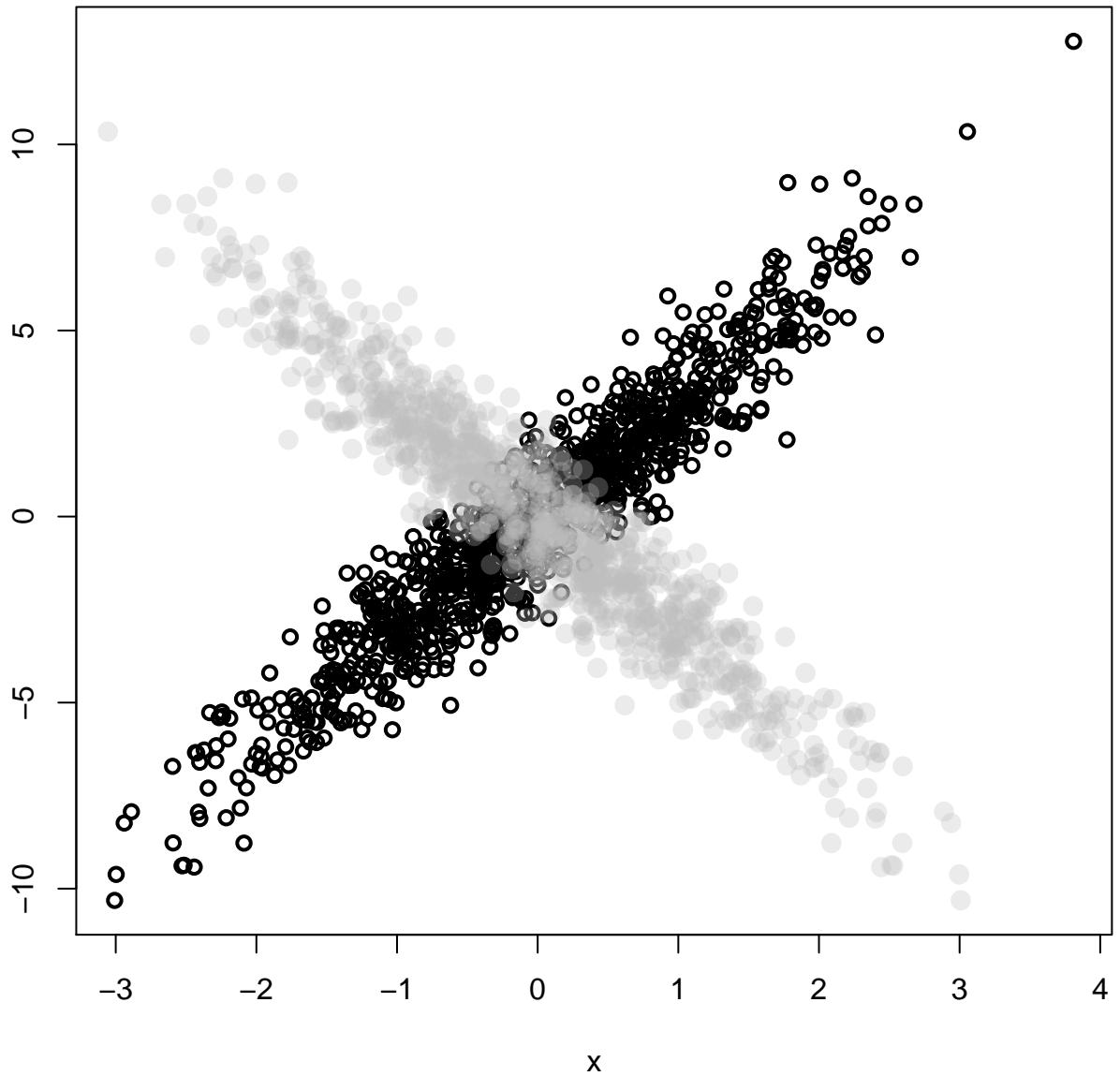


## Gray Scales Palette



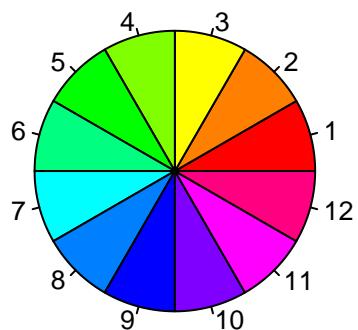
help("palette")

# Alpha-Transparency Palette alpha = 0.3

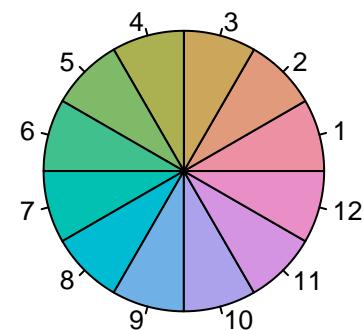


help("palette")

**RGB/HSV**

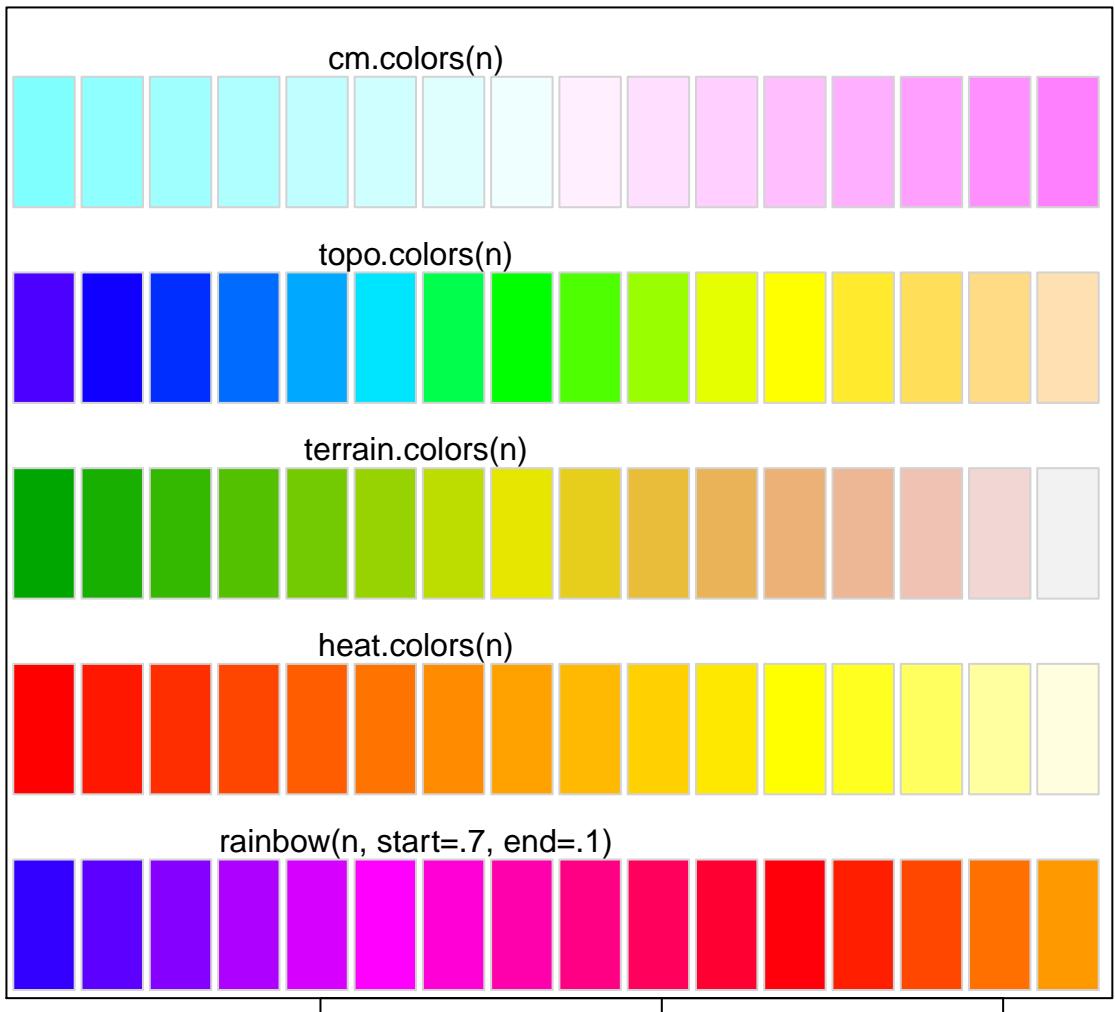


**HCL**

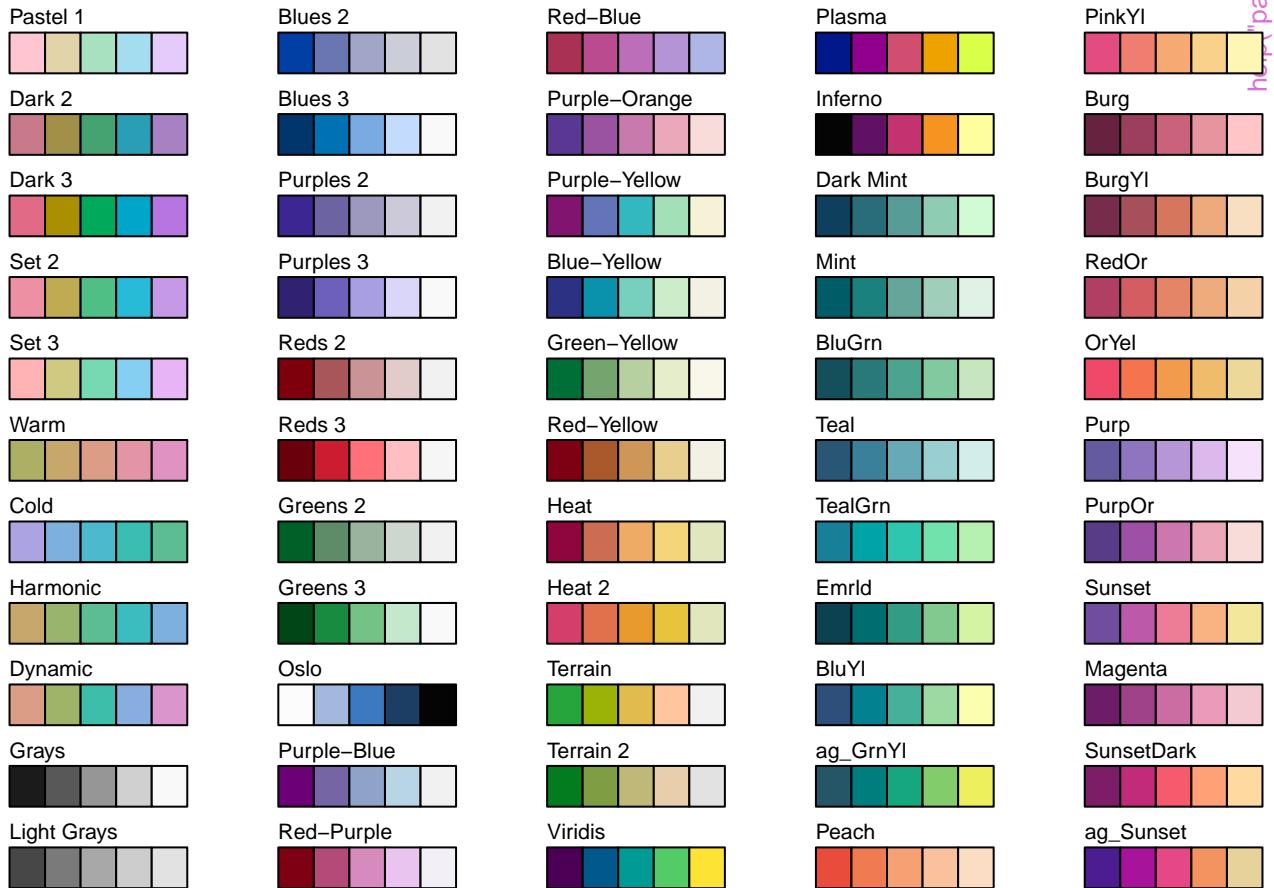


help("palettes")

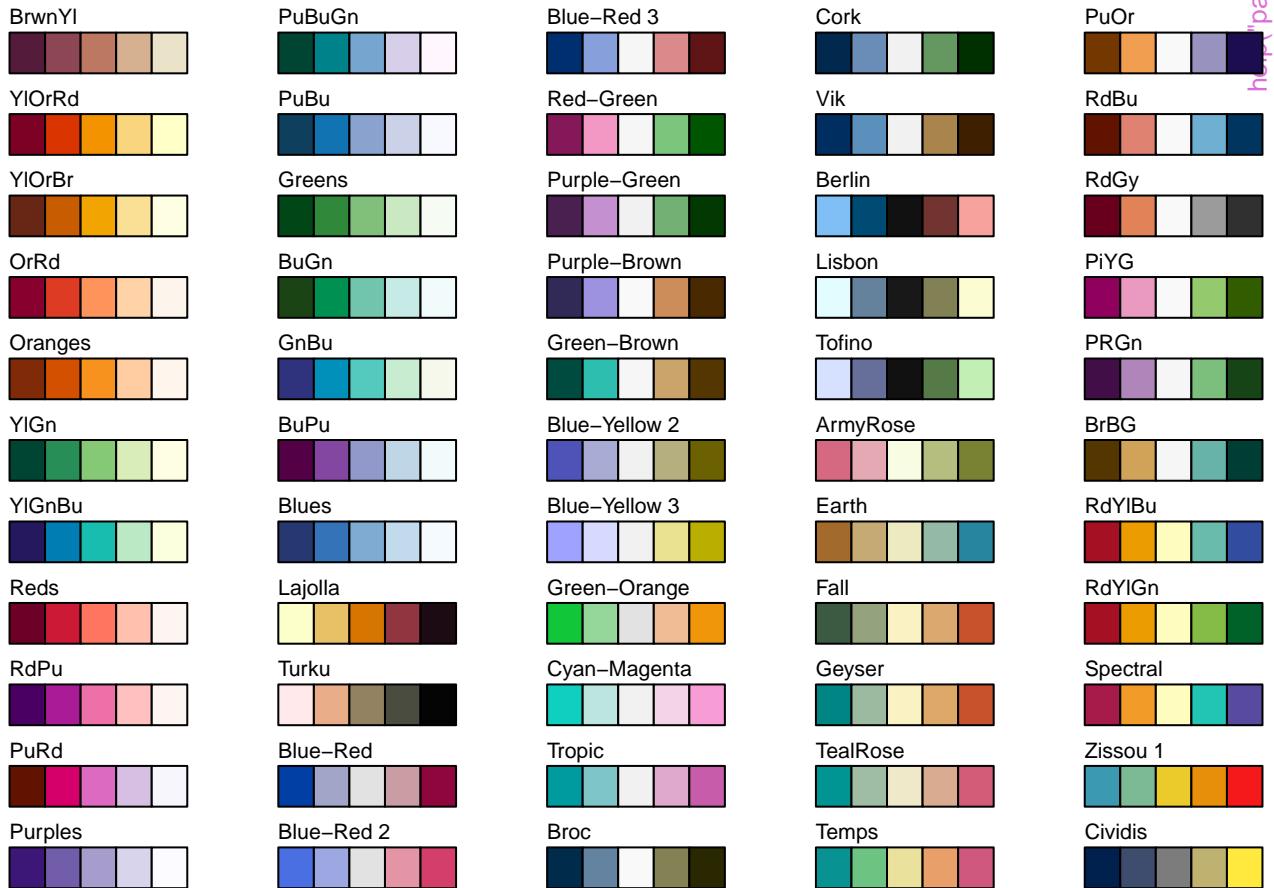
## color palettes; n= 16



help("palettes")

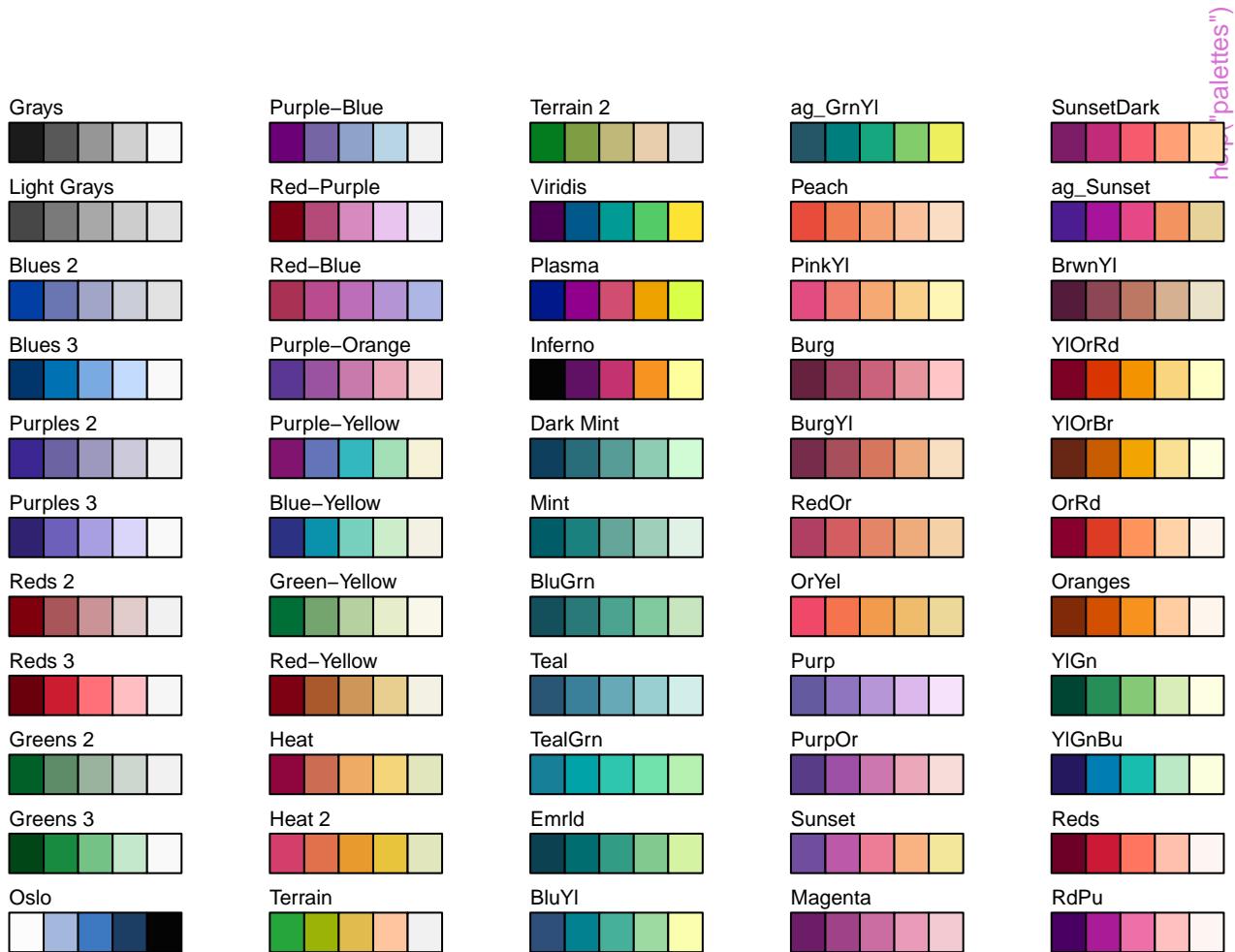


hept palettes)

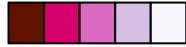


help("palettes")

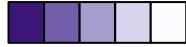




PuRd



Purples



PuBuGn



PuBu



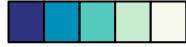
Greens



BuGn



GnBu



BuPu



Blues



Lajolla



Turku



help("palettes")

Blue–Red



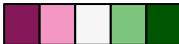
Blue–Red 2



Blue–Red 3



Red–Green



Purple–Green



Purple–Brown



Green–Brown



Blue–Yellow 2



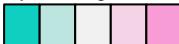
Blue–Yellow 3



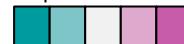
Green–Orange



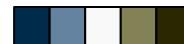
Cyan–Magenta



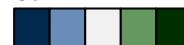
Tropic



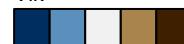
Broc



Cork



Vik



Berlin



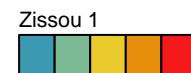
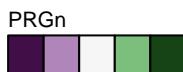
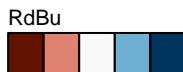
Lisbon



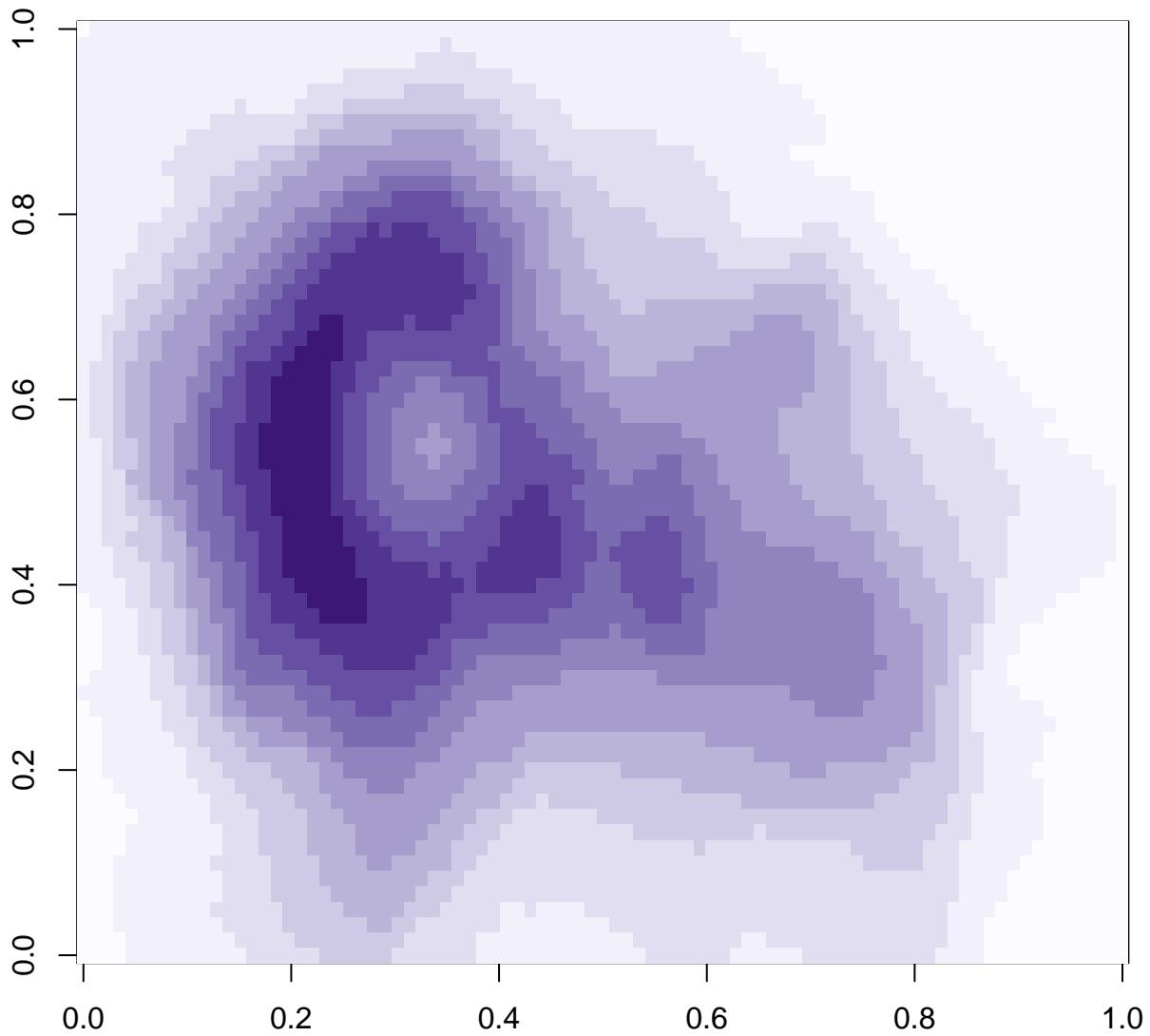
Tofino

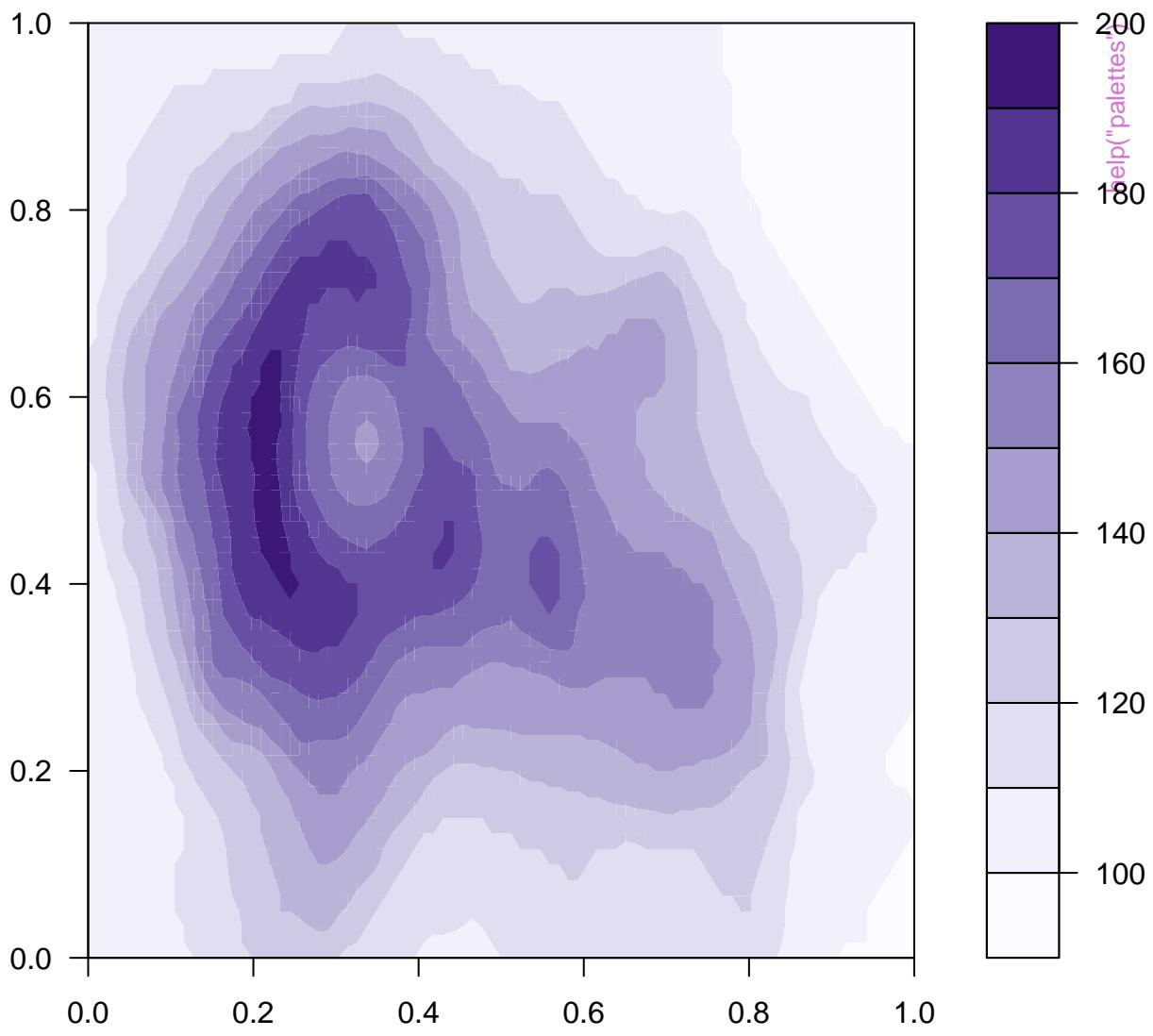


help("palettes")

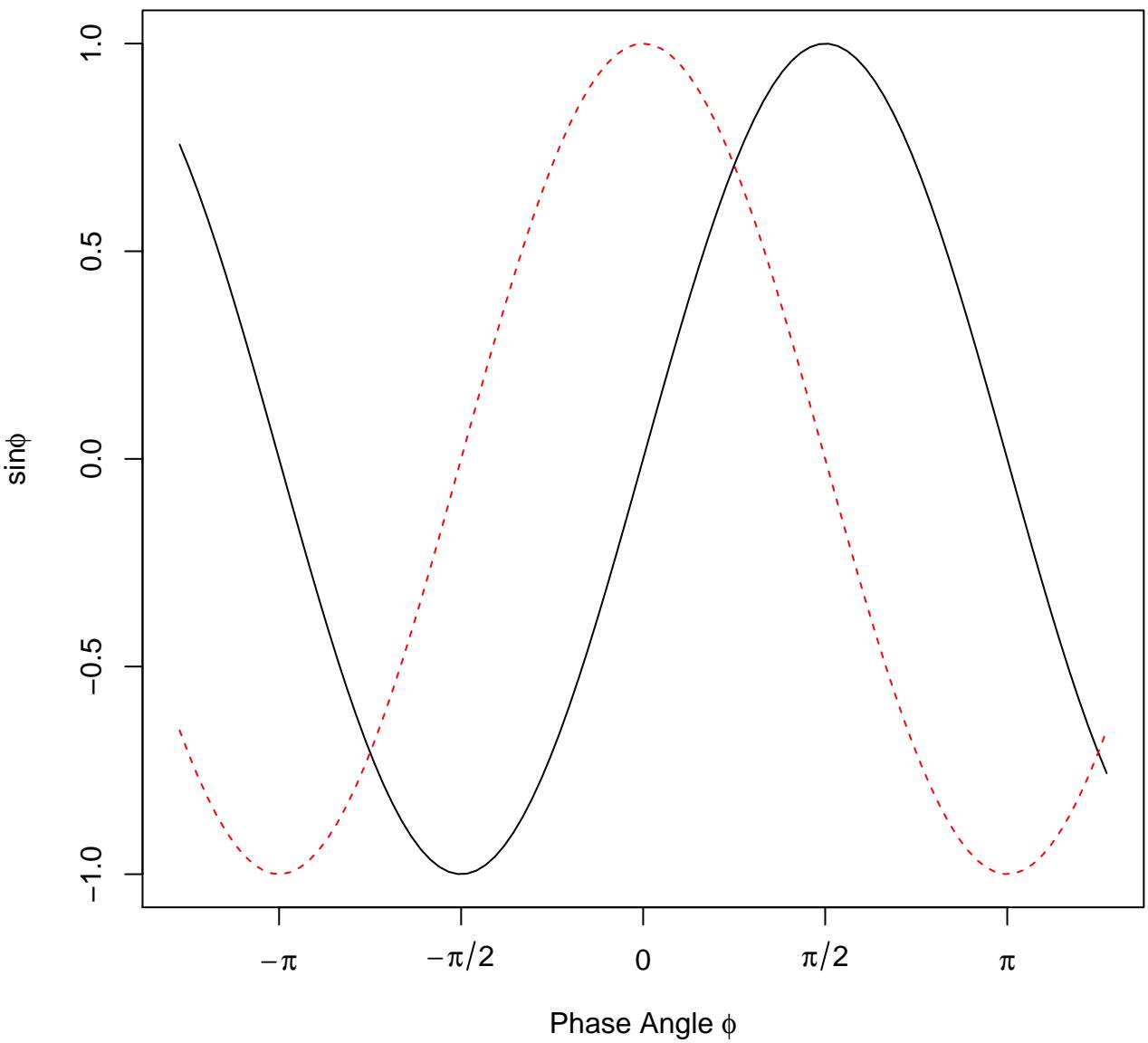


help("palettes")





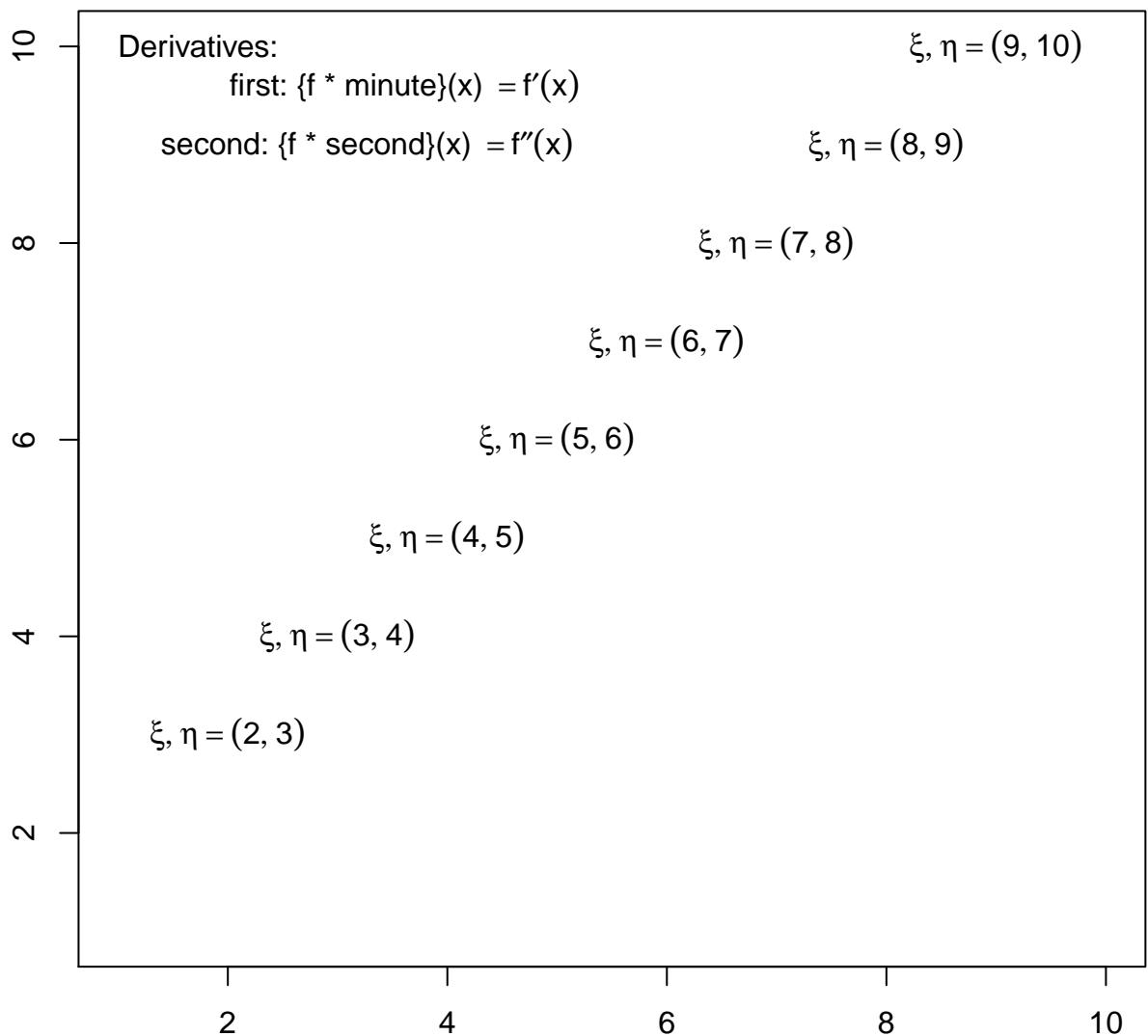
## $\sin\phi$ and $\cos\phi$



help("plotmath")

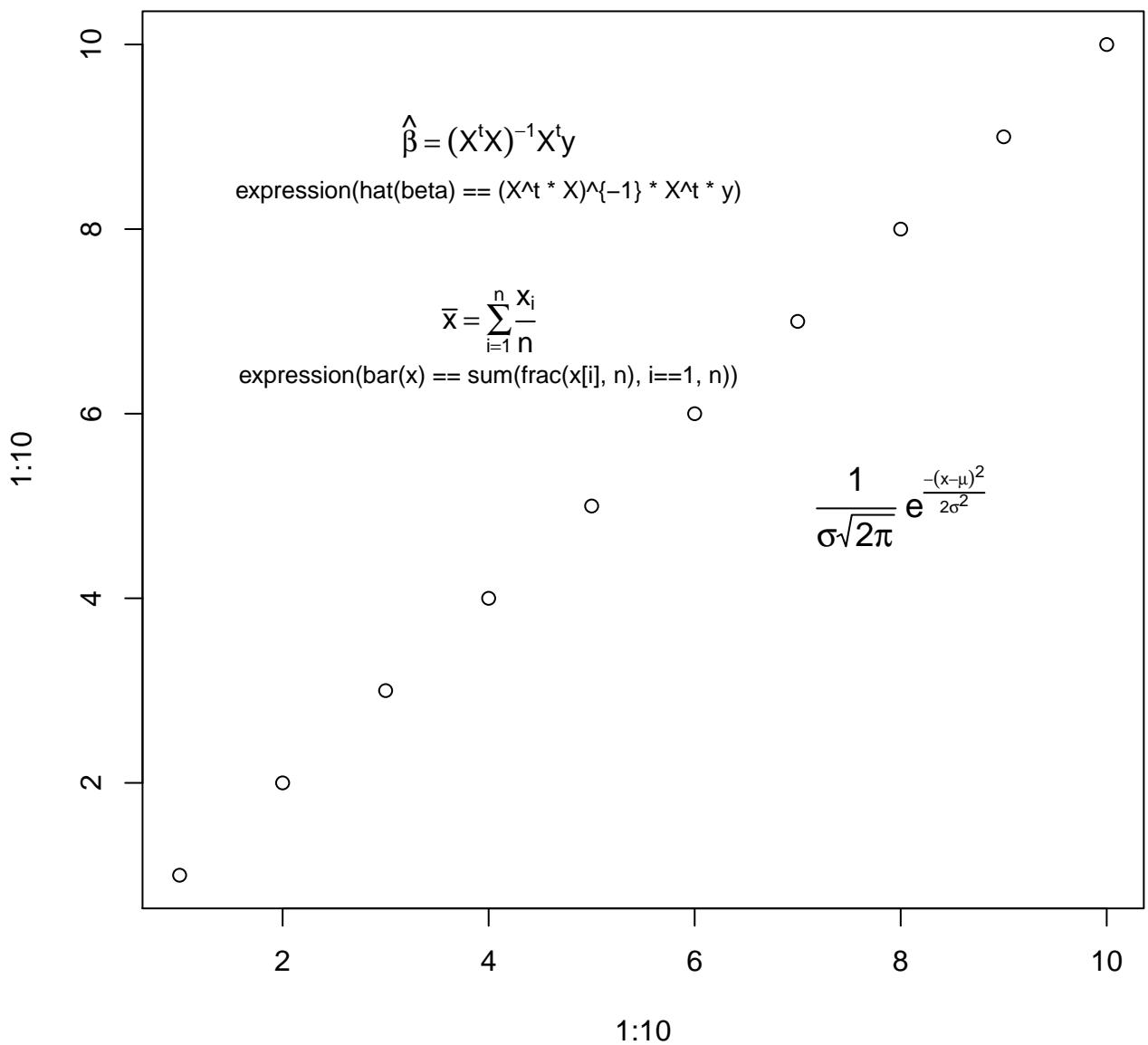
# plot math & numbers

$$\hat{\theta} = 1.23$$



help("plotmath")

help("plotmath")



```
help("plotmath")
```

universal	\042	$\forall$
existential	\044	$\exists$
suchthat	\047	$\ni$
therefore	\134	$\therefore$
perpendicular	\136	$\perp$
circlemultiply	\304	$\otimes$
circleplus	\305	$\oplus$
emptyset	\306	$\emptyset$
angle	\320	$\angle$
lefttangle	\341	$\langle$
righttangle	\361	$\rangle$

help("recordGraphics")

