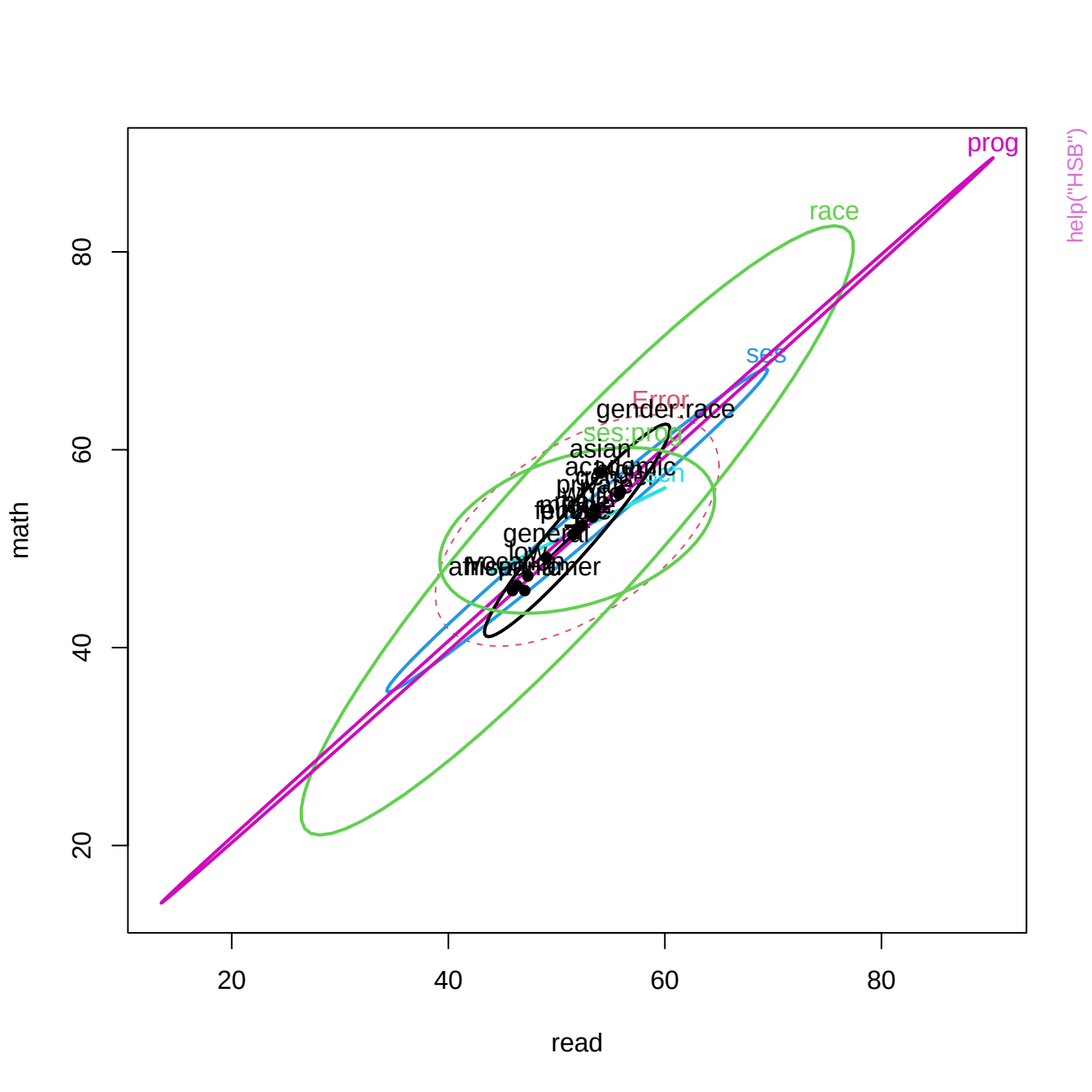
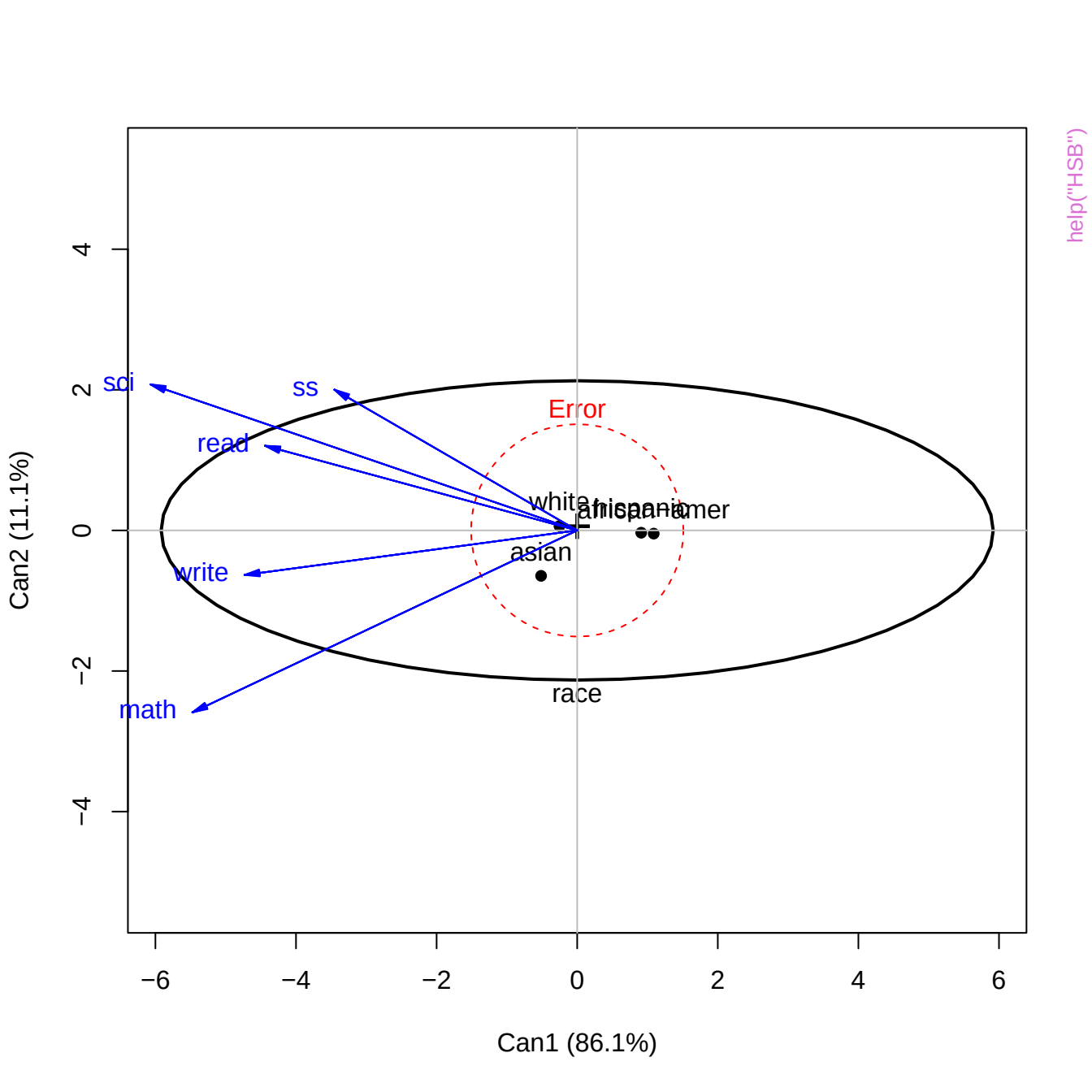
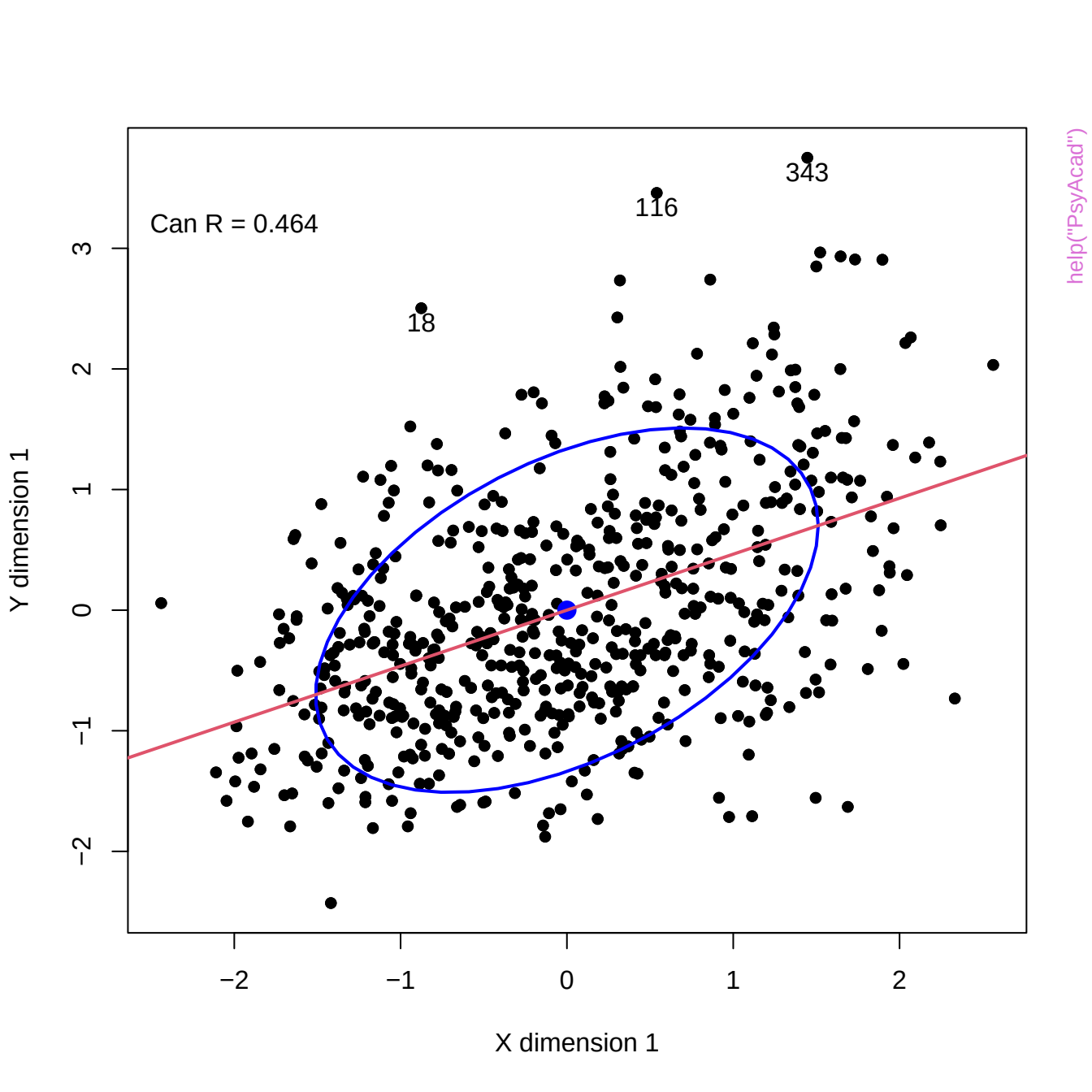
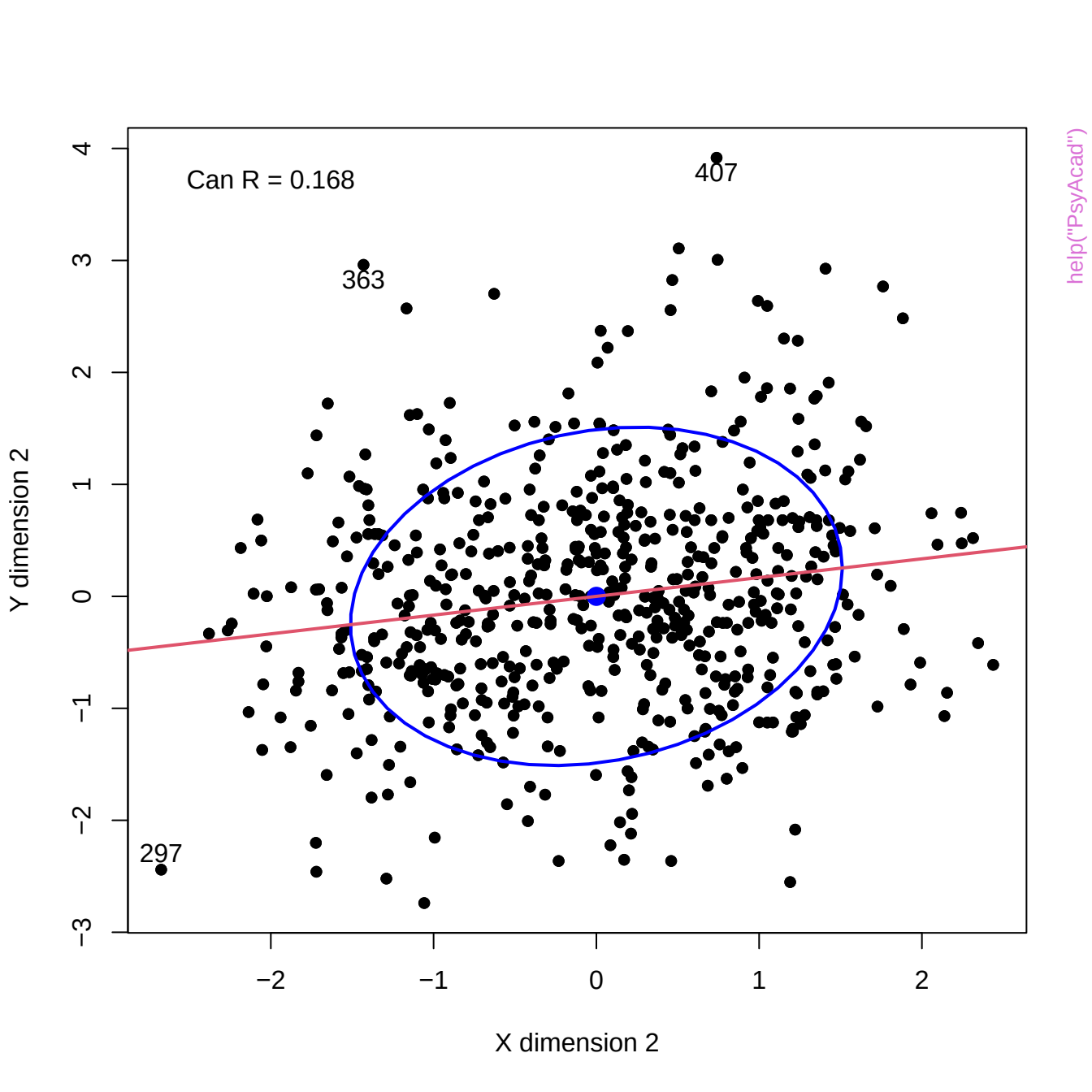
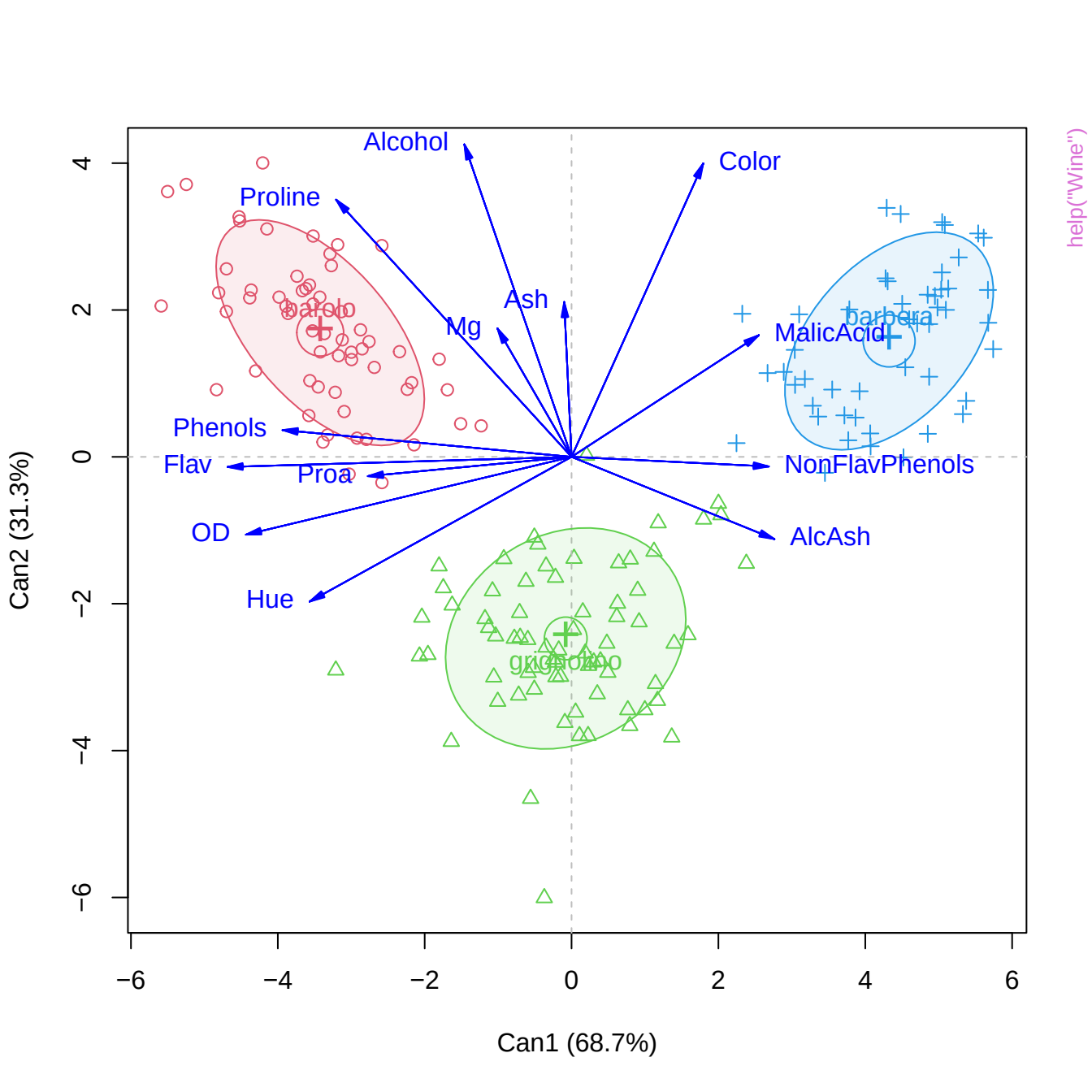
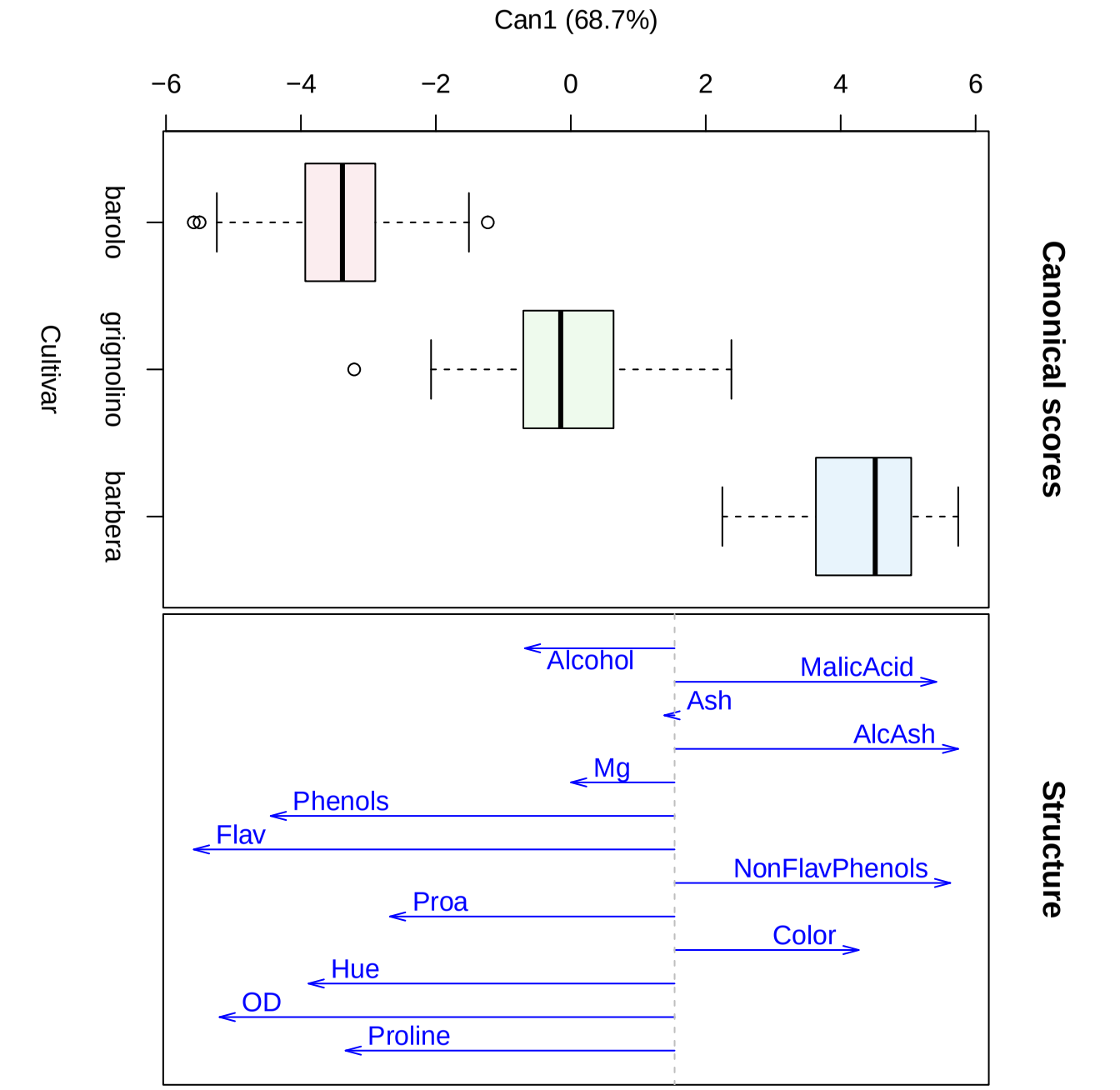

prog
race
ses
Error
gender:race
ses:prog
asian
math
read
20
40
60
80
help("HSB")

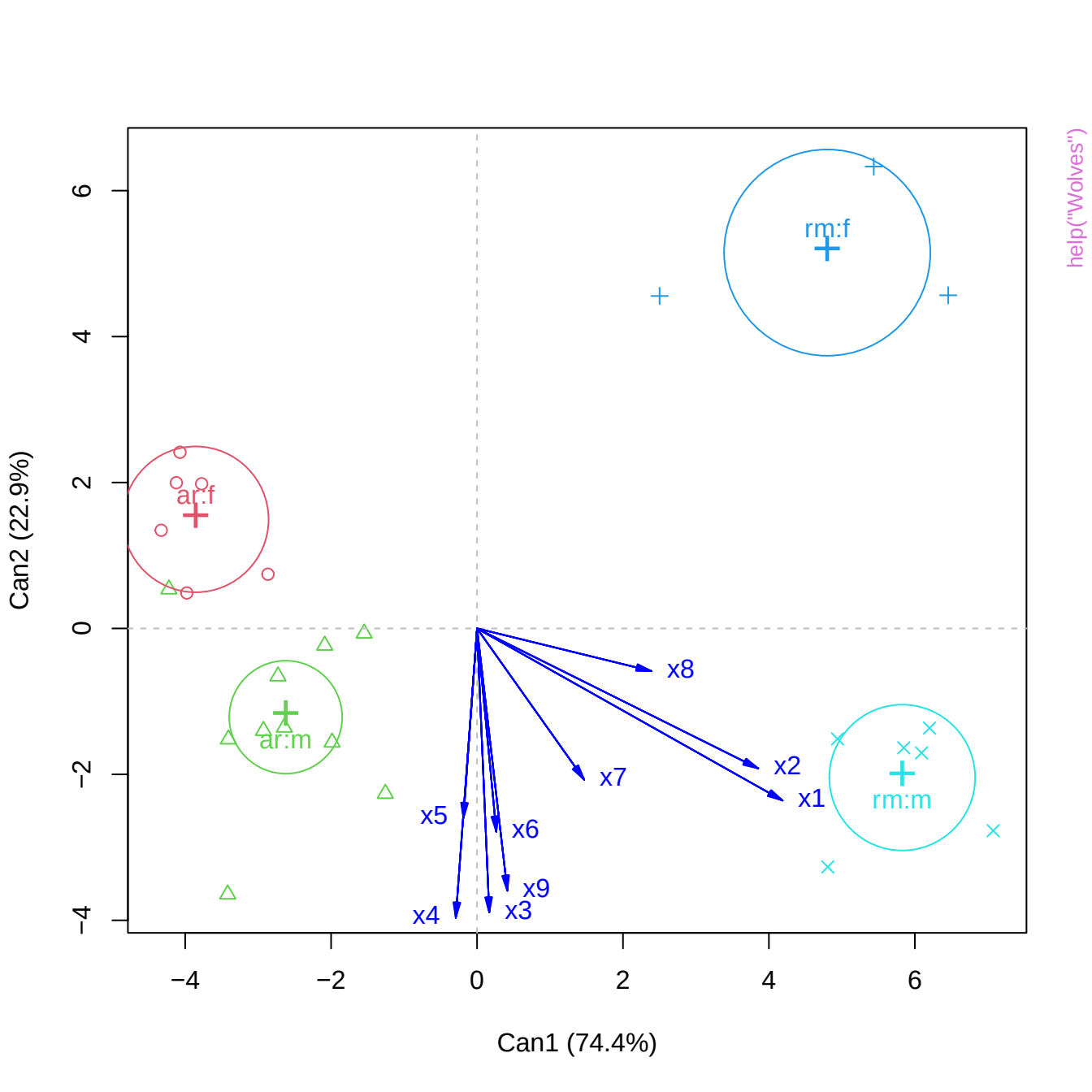

help("HSB")
sci
ss
read
write
math
Error
white
hispanic
amerind
asian
race
Can1 (86.1%)
Can2 (11.1%)
−6
−4
−2
0
2
4
6
−4
−2
0
2
4

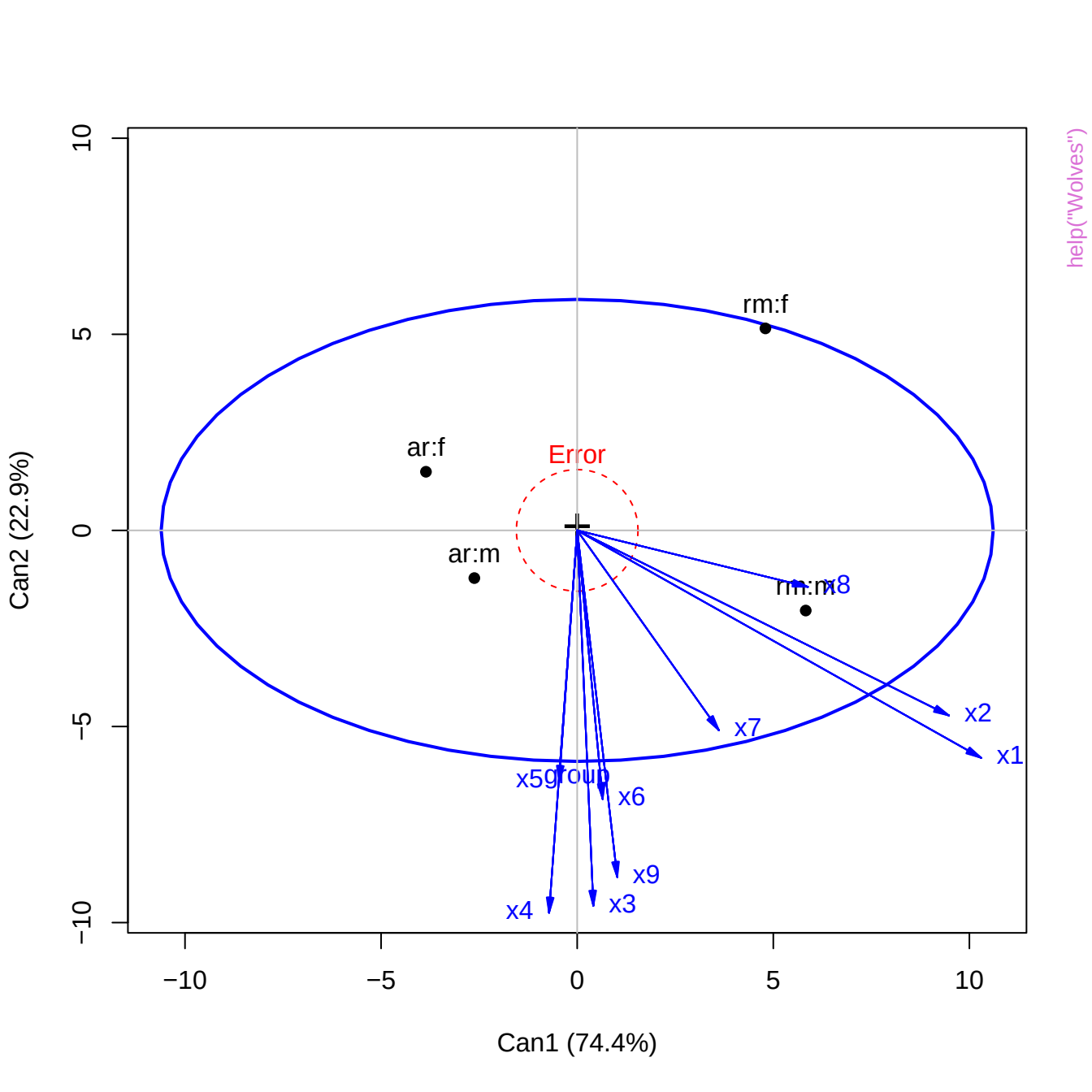

Can R = 0.464
343
116
18
Y dimension 1
X dimension 1
−2
−1
0
1
2
3
help("PsyAcad")

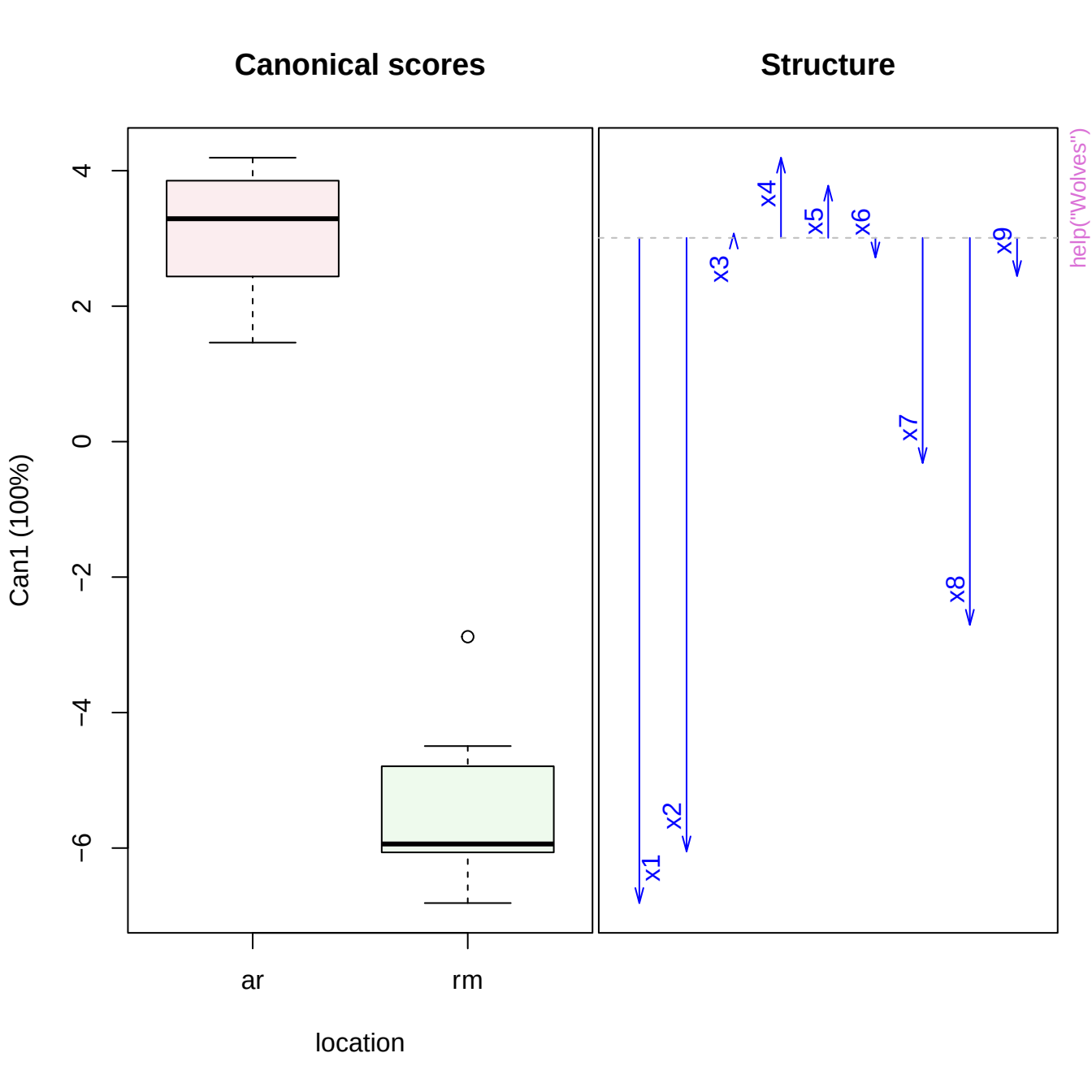

Can R = 0.168
407
363
297
Y dimension 2
X dimension 2
4
3
2
1
0
−1
−2
−3
−2
−1
0
1
2
help("PsyAcad")


Alcohol
Color
Proline
Ash
Mg
MalicAcid
barbera
Phenols
Flav
Proa
NonFlavPhenols
OD
AlcAsh
Hue
grignolino
Can2 (31.3%)
Can1 (68.7%)
help("Wine")
4
2
0
−2
−4
−6
−6
−4
−2
0
2
4
6


Can1 (68.7%)
−6
−4
−2
0
2
4
6
Cultivar
barolo
grignolino
barbera
Canonical scores
Alcohol
MalicAcid
Ash
AlcAsh
Mg
Phenols
Flav
NonFlavPhenols
Proa
Color
Hue
OD
Proline
Structure
help("Wine")

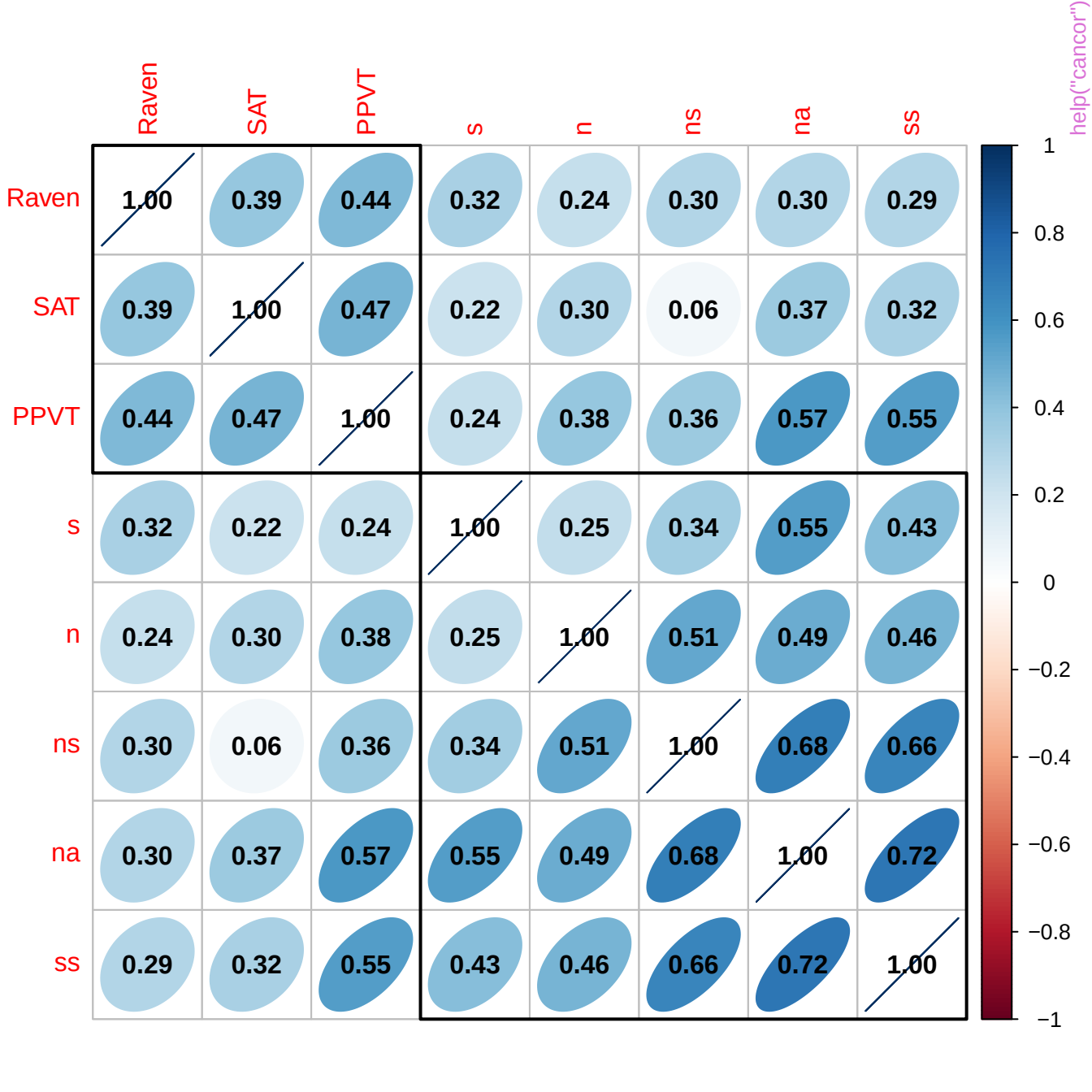

help("Wolves")
rm:f
ar:f
ar:m
rm:m
x8
x2
x1
x7
x5
x6
x9
x4
x3
Can2 (22.9%)
Can1 (74.4%)
6
4
2
0
−2
−4
−4
−2
0
2
4
6

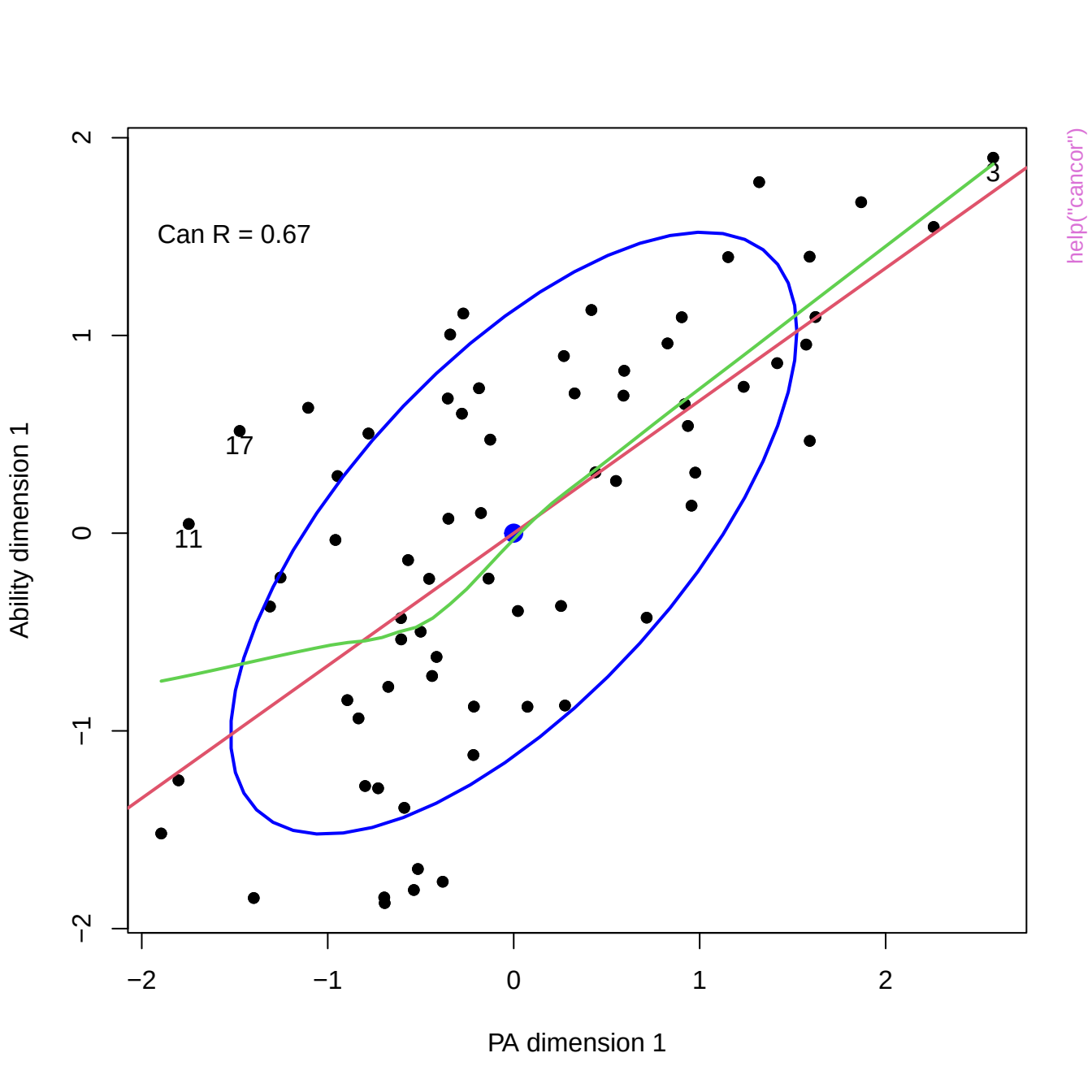

help("Wolves")
rm:f
ar:f
Error
ar:m
rm:m
x8
x2
x1
x7
x5
group
x6
x9
x4
x3
10
5
0
−5
−10
Can2 (22.9%)
−10
−5
0
5
10
Can1 (74.4%)

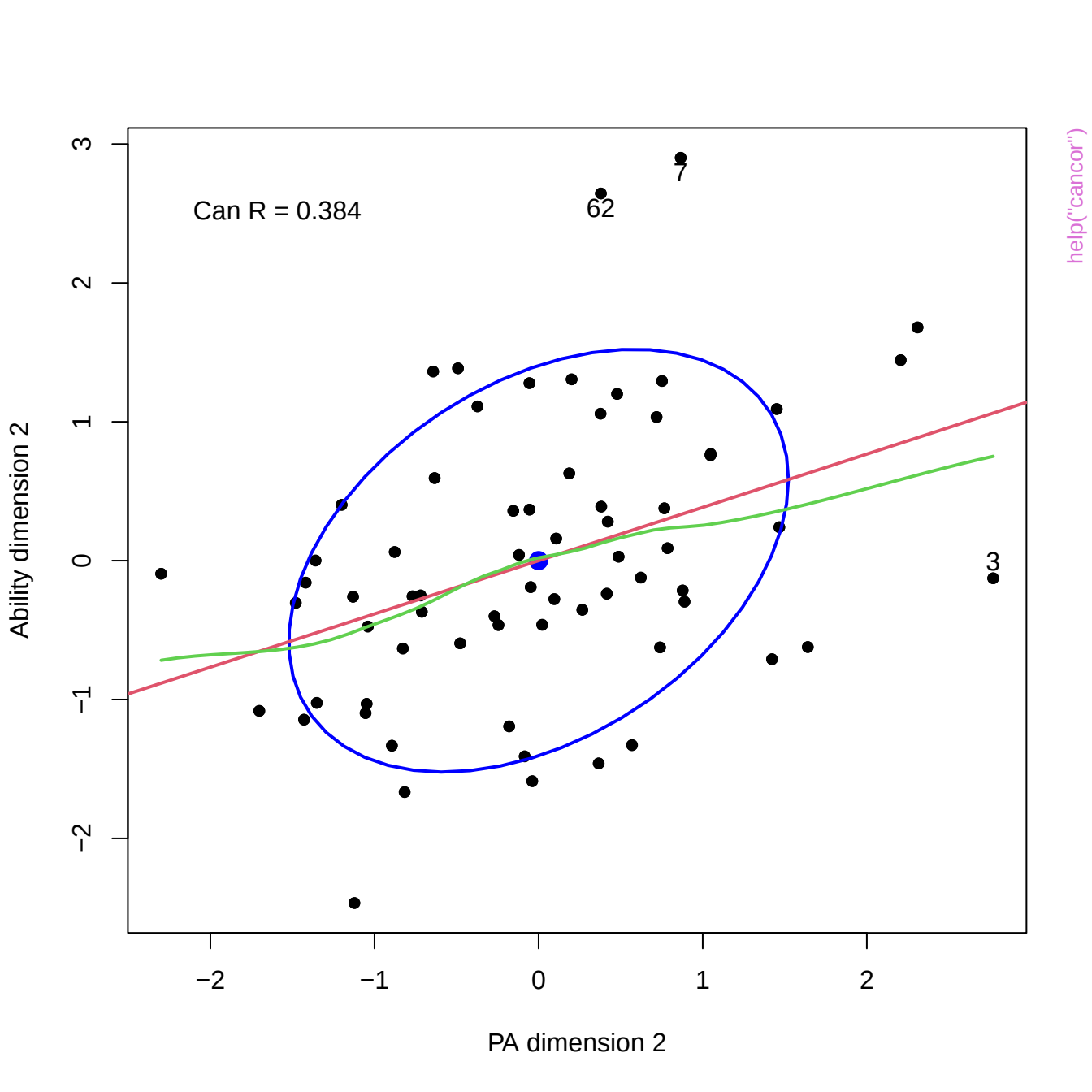

Canonical scores
Structure
Can1 (100%)
4
2
0
−2
−4
−6
ar
rm
location
x1
x2
x3
x4
x5
x6
x7
x8
x9
help("Wolves")

Canonical scores
Structure
Can1 (100%)
4
2
0
−2
−4
f
m
sex
x1
x2
x3
x4
x5
x6
x7
x8
x9
help("Wolves")

Canonical scores
Structure
Can1 (100%)
2
0
−2
−4
−6
ar.f
rm.f
ar.m
rm.m
location:sex
x1
x2
x3
x4
x5
x6
x7
x8
x9
help("Wolves")


Raven
SAT
PPVT
s
n
ns
na
ss
Raven 1.00 0.39 0.44 0.32 0.24 0.30 0.30 0.29
SAT 0.39 1.00 0.47 0.22 0.30 0.06 0.37 0.32
PPVT 0.44 0.47 1.00 0.24 0.38 0.36 0.57 0.55
s 0.32 0.22 0.24 1.00 0.25 0.34 0.55 0.43
n 0.24 0.30 0.38 0.25 1.00 0.51 0.49 0.46
ns 0.30 0.06 0.36 0.34 0.51 1.00 0.68 0.66
na 0.30 0.37 0.57 0.55 0.49 0.68 1.00 0.72
ss 0.29 0.32 0.55 0.43 0.46 0.66 0.72 1.00
help("cancor")
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

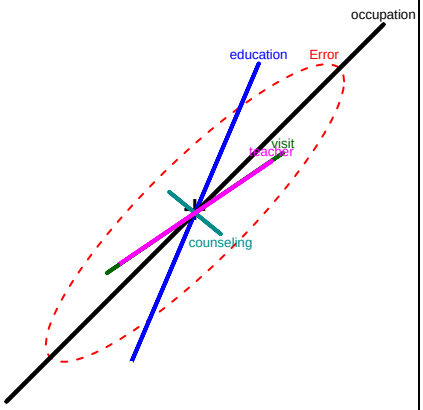

Can R = 0.67
17
11
3
Ability dimension 1
PA dimension 1
−2
−1
0
1
2
help("cancor")

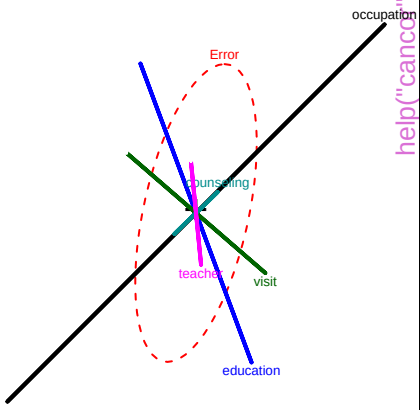

Can R = 0.384
7
62
3
Ability dimension 2
PA dimension 2
3
2
1
0
−1
−2
−2
−1
0
1
2
help("cancor")

120.17

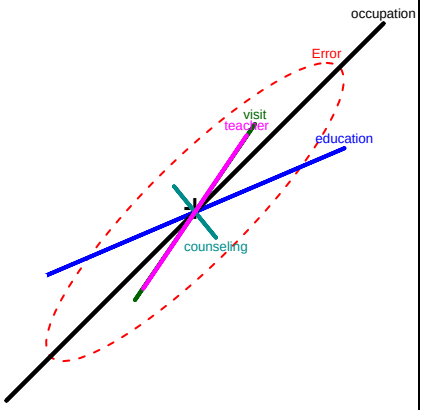
reading

4.59





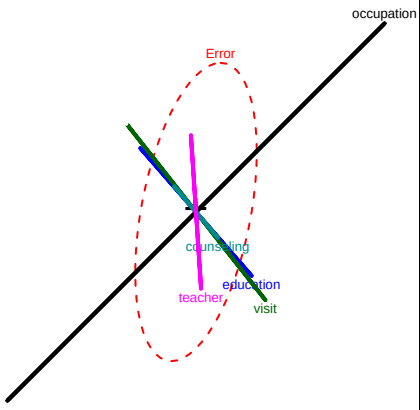
help("cancor")

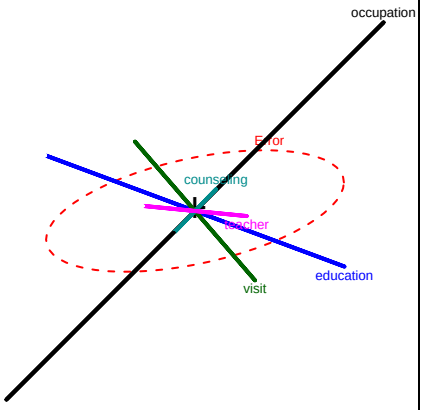


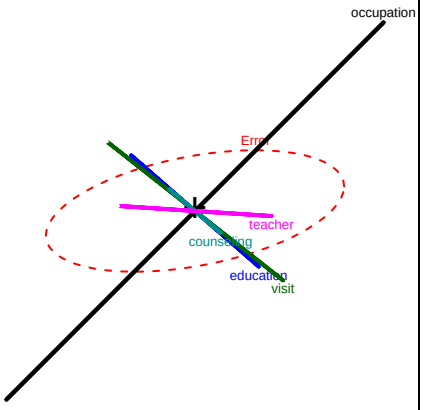
144.67

mathematics

6.16



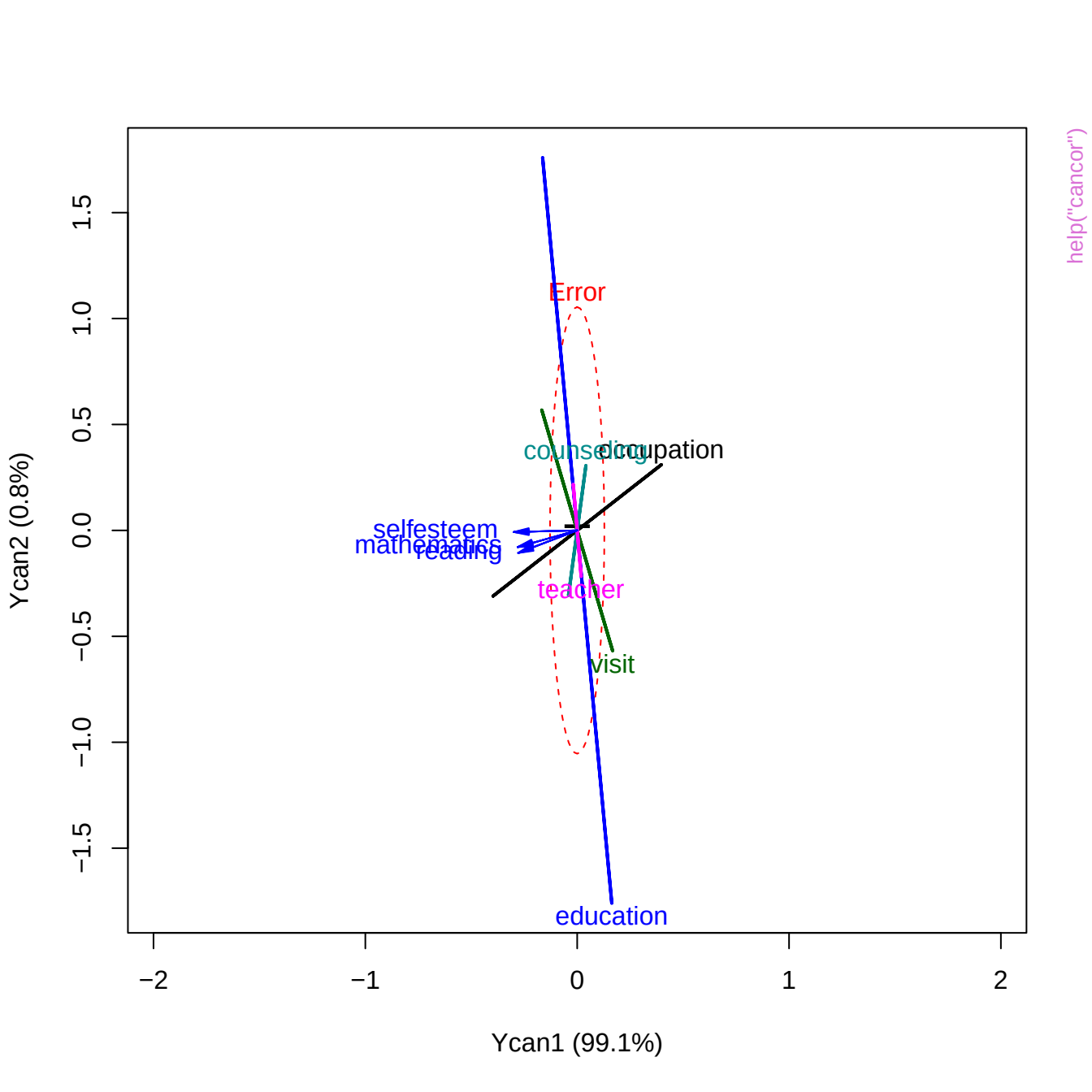


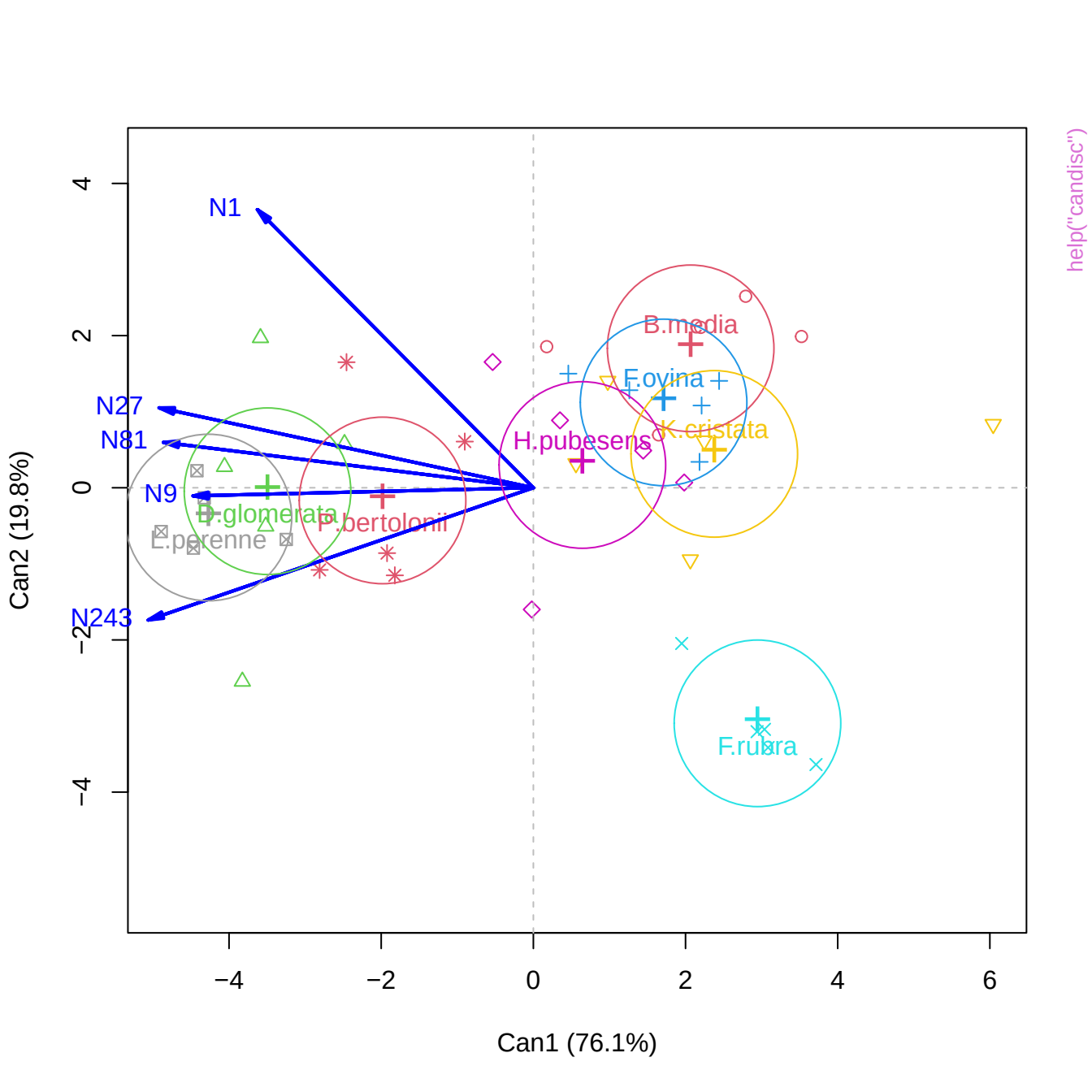


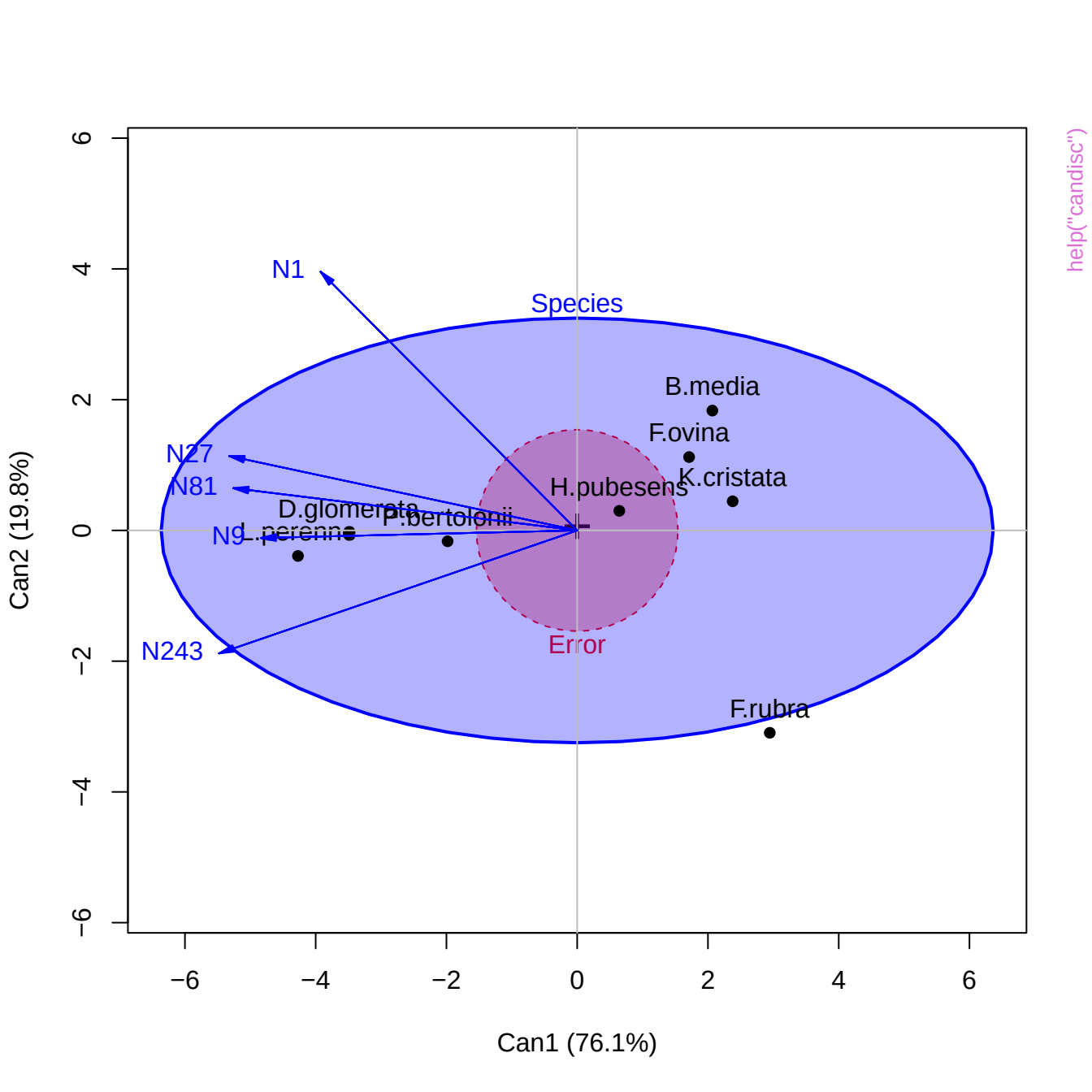
88.59

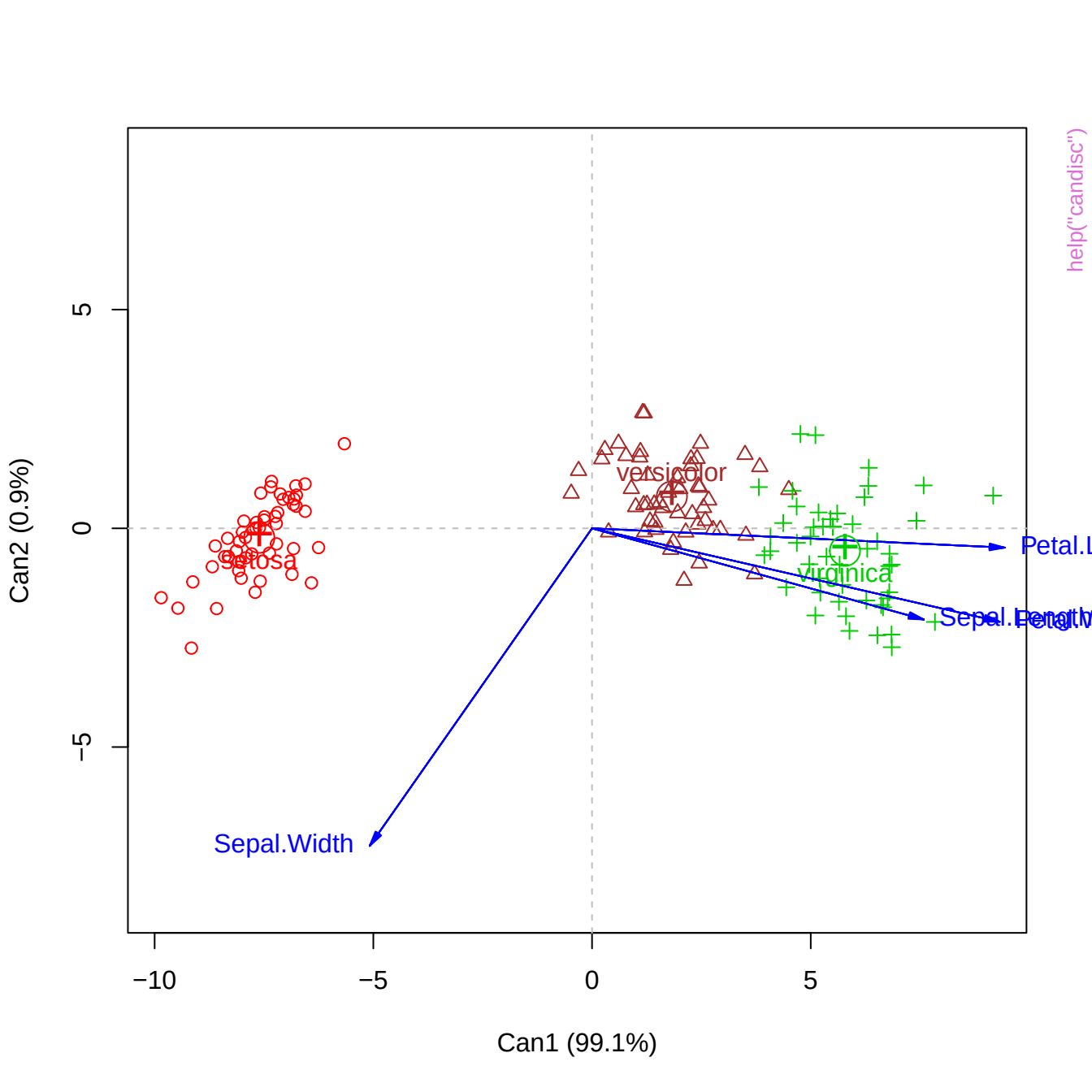
selfesteem

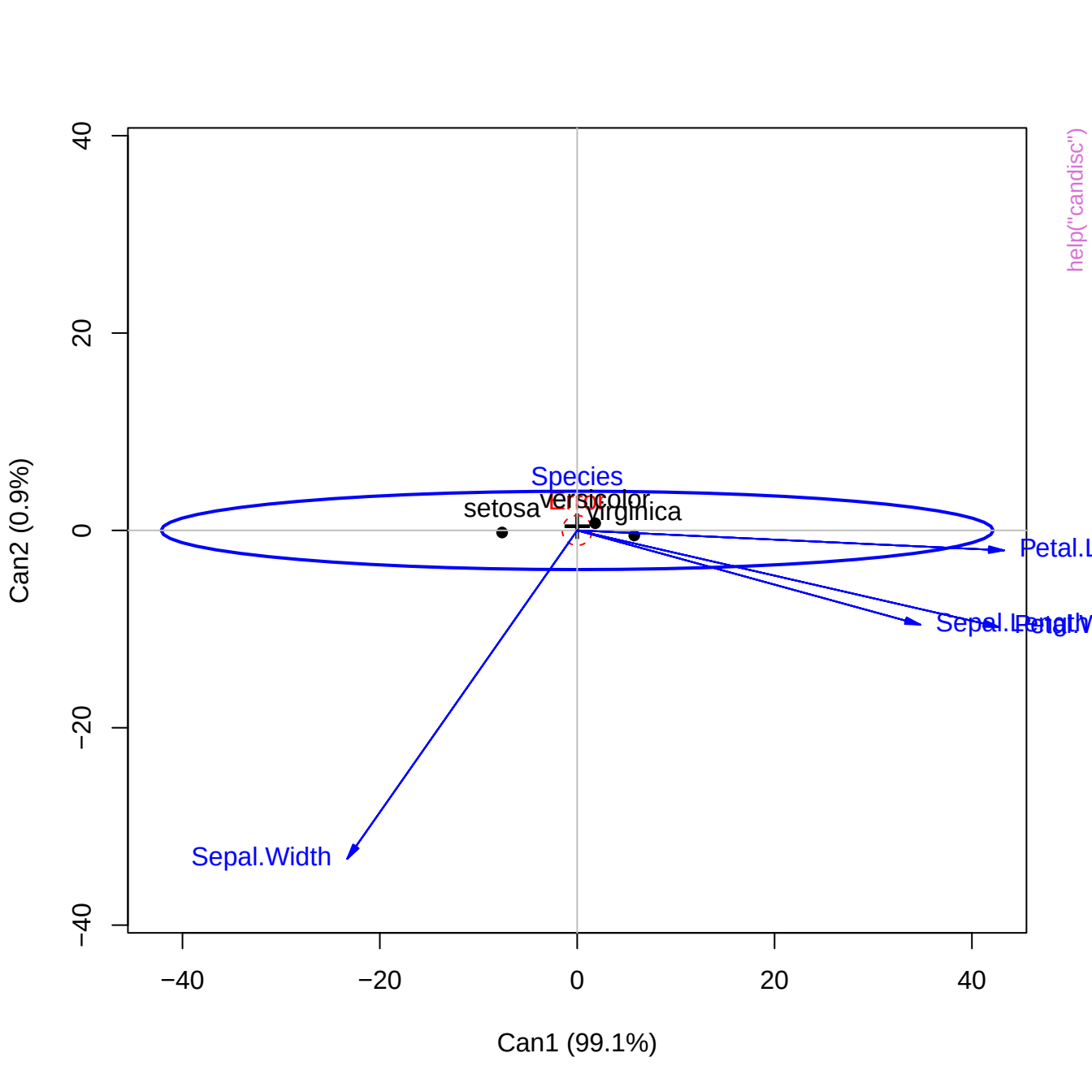
4.99


Error
counseling
occupation
selfesteem
mathematics
reading
teacher
visit
education
−2
−1
0
1
2
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
Ycan1 (99.1%)
Ycan2 (0.8%)
help("cancor")

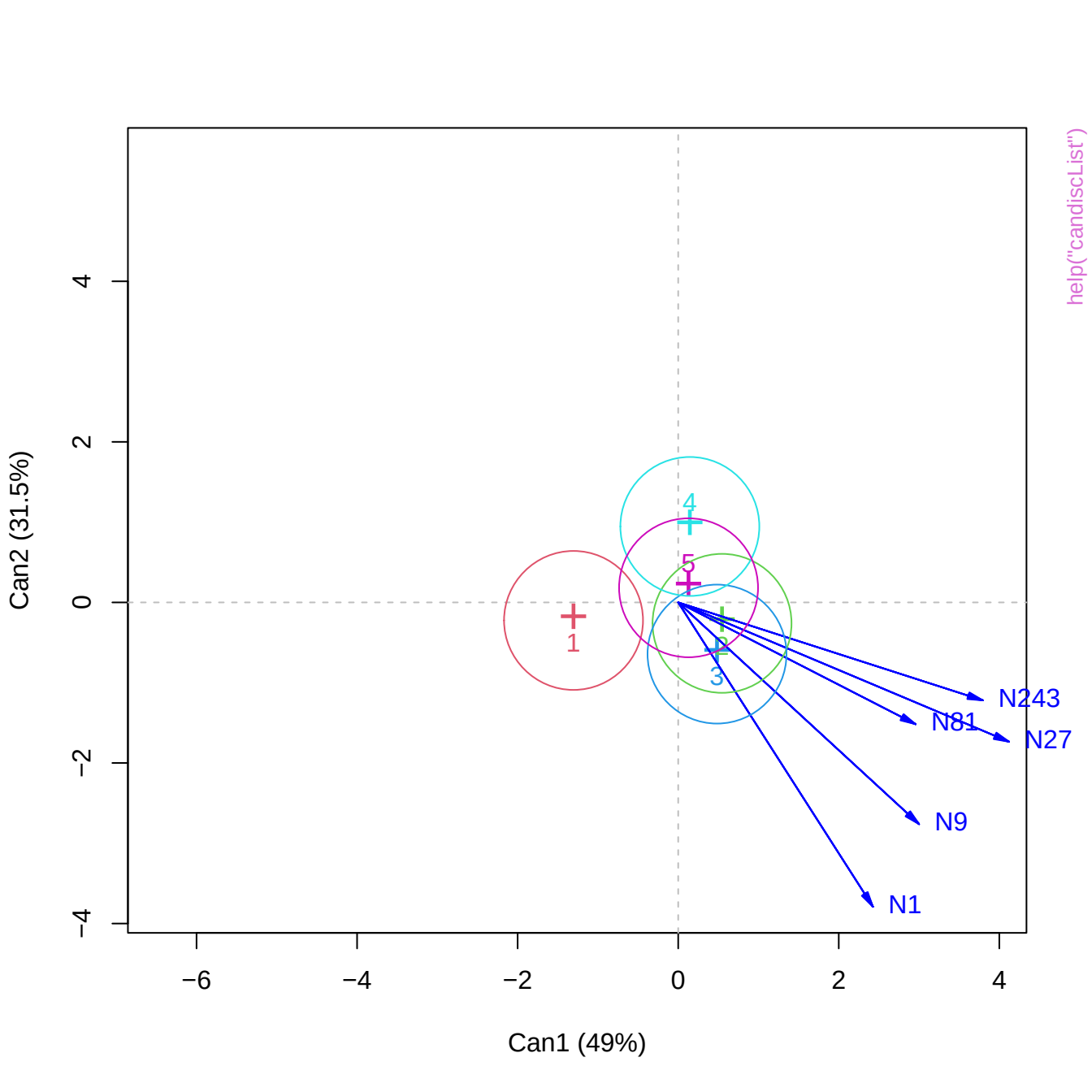

N1
N27
N81
N9
N243
B.media
F.ovina
K.cristata
H.pubesens
B.glomerata
F.bertolonii
E.perenne
F.rubra
Can1 (76.1%)
Can2 (19.8%)
−4
−2
0
2
4
6
help("candisc")

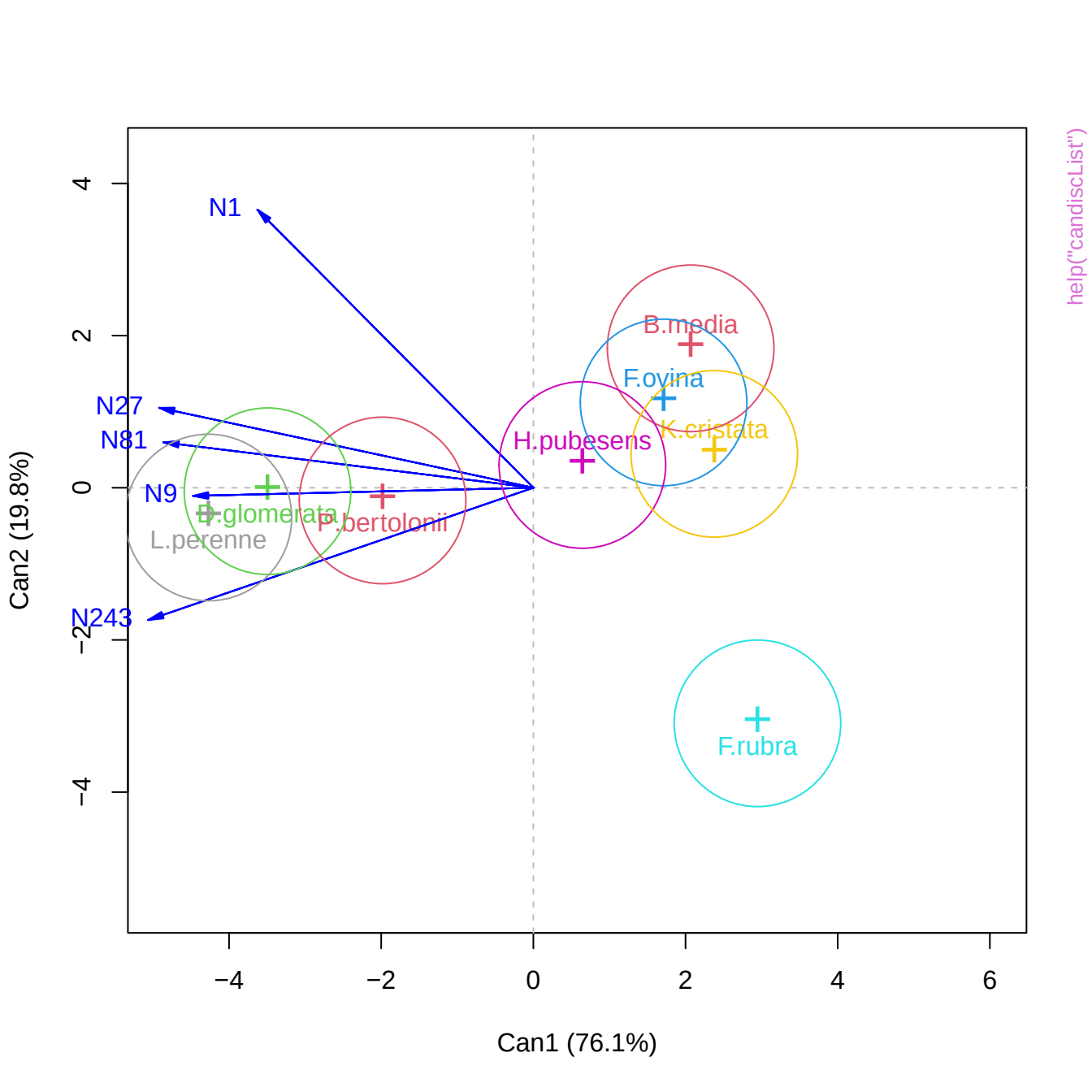

help("candisc")
N1
Species
B.media
F.ovina
N27
N81
K.cristata
H.pubesens
D.glomerata
P.bertolonii
N9
L.perenne
N243
Error
F.rubra
Can2 (19.8%)
Can1 (76.1%)
6
4
2
0
−2
−4
−6
−6
−4
−2
0
2
4
6

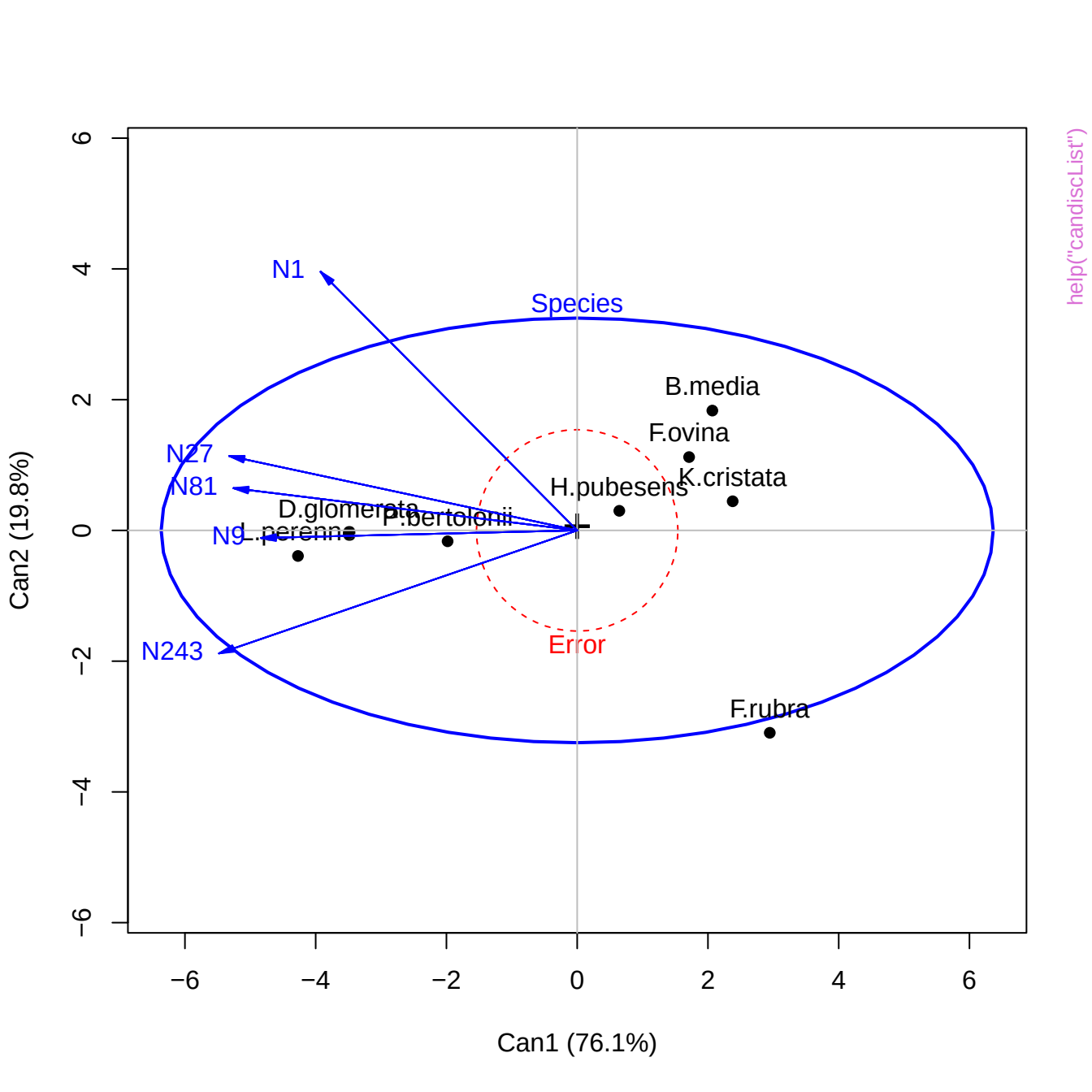

help("candisc")
Can2 (0.9%)
Can1 (99.1%)
5
0
−5
−10
−5
0
5
setosa
versicolor
virginica
Petal.L
Sepal.Width

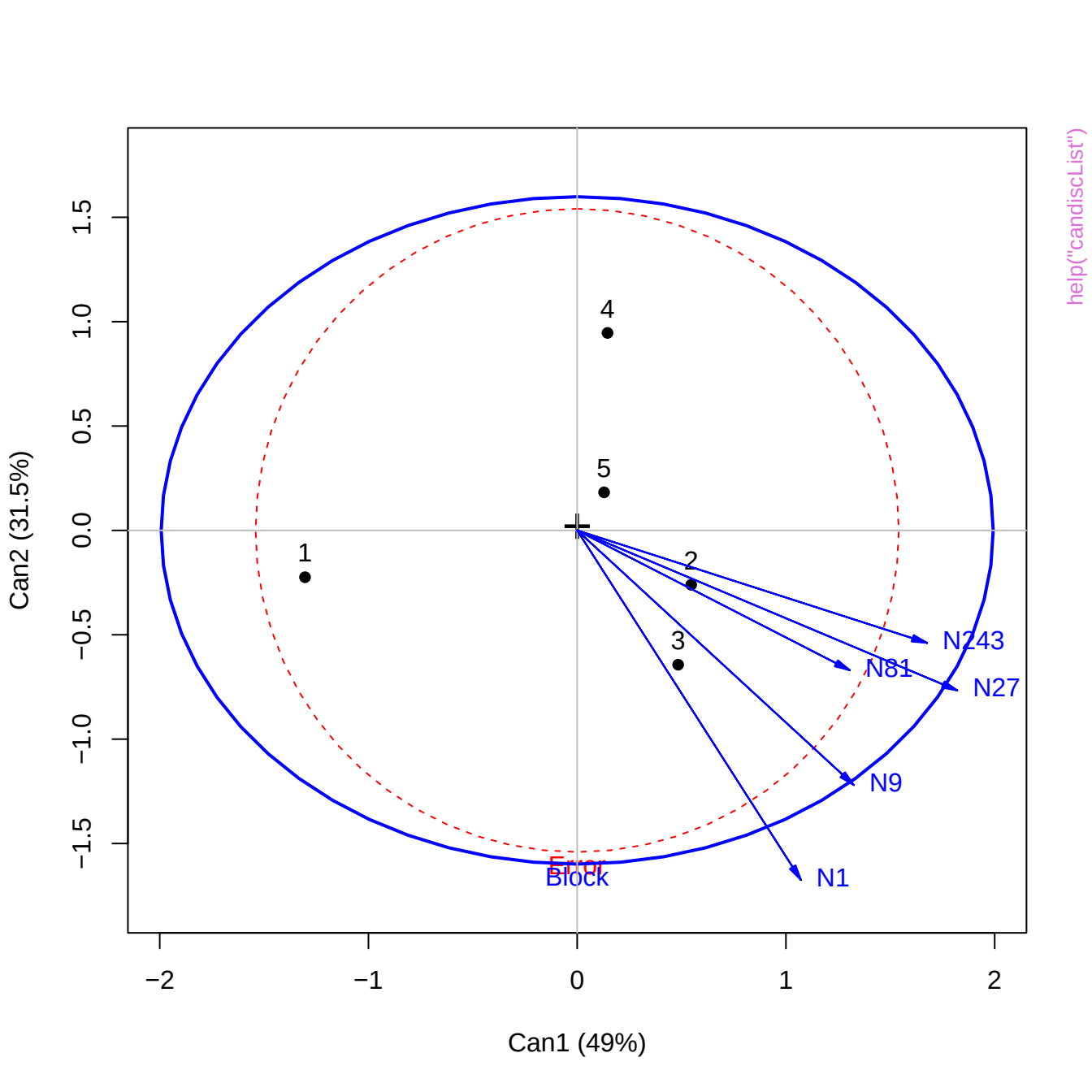

help("candisc")
Species
setosa
versicolor
virginica
Petal.L
Sepal.Length
Sepal.Width
Can1 (99.1%)
Can2 (0.9%)
40
20
0
−20
−40
−40
−20
0
20
40

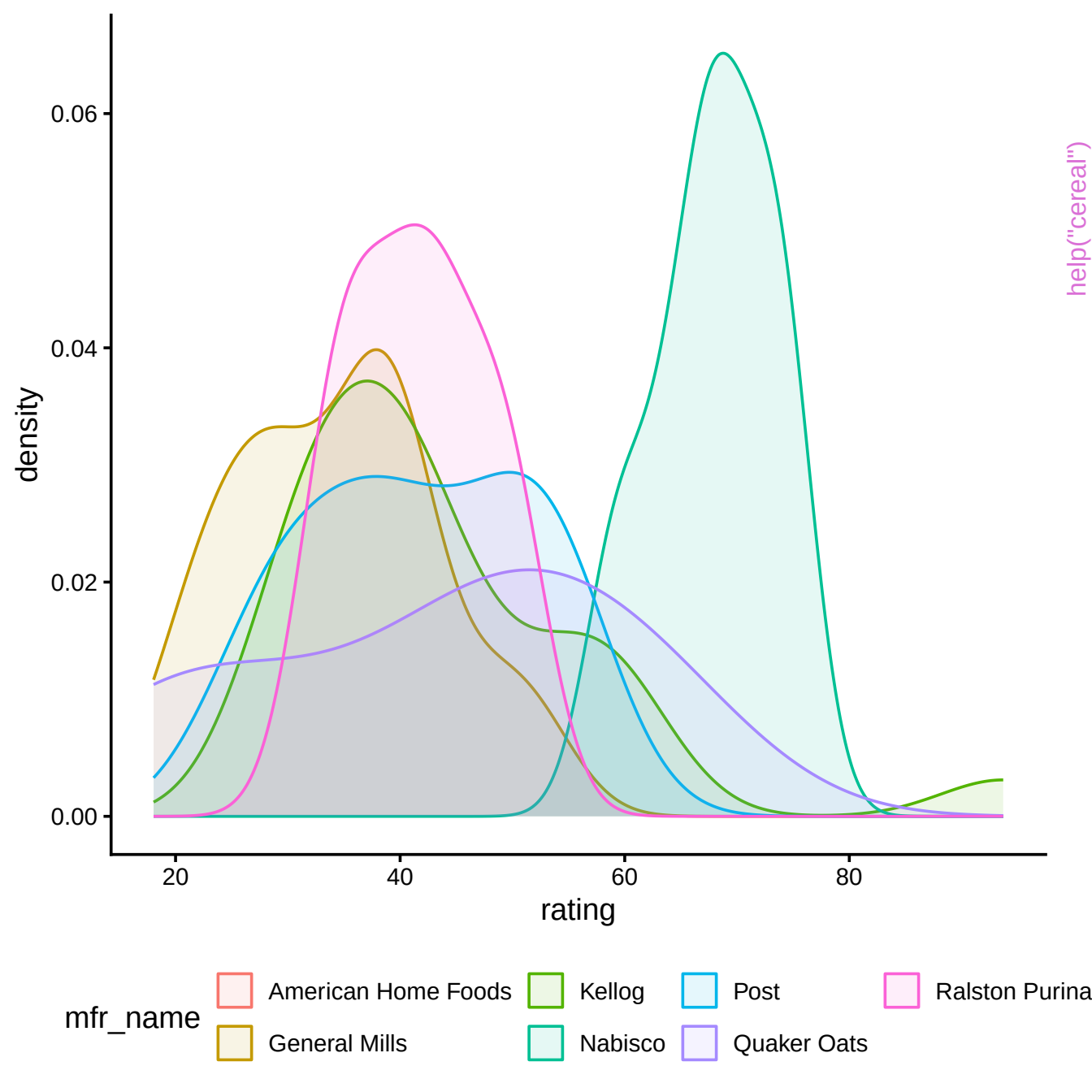
Canonical scores
Structure
Can1 (99.1%)
5
0
−5
−10
setosa
versicolor
virginica
Species
Petal.Length
Sepal.Length
Petal.Width
Sepal.Width
help("candisc")

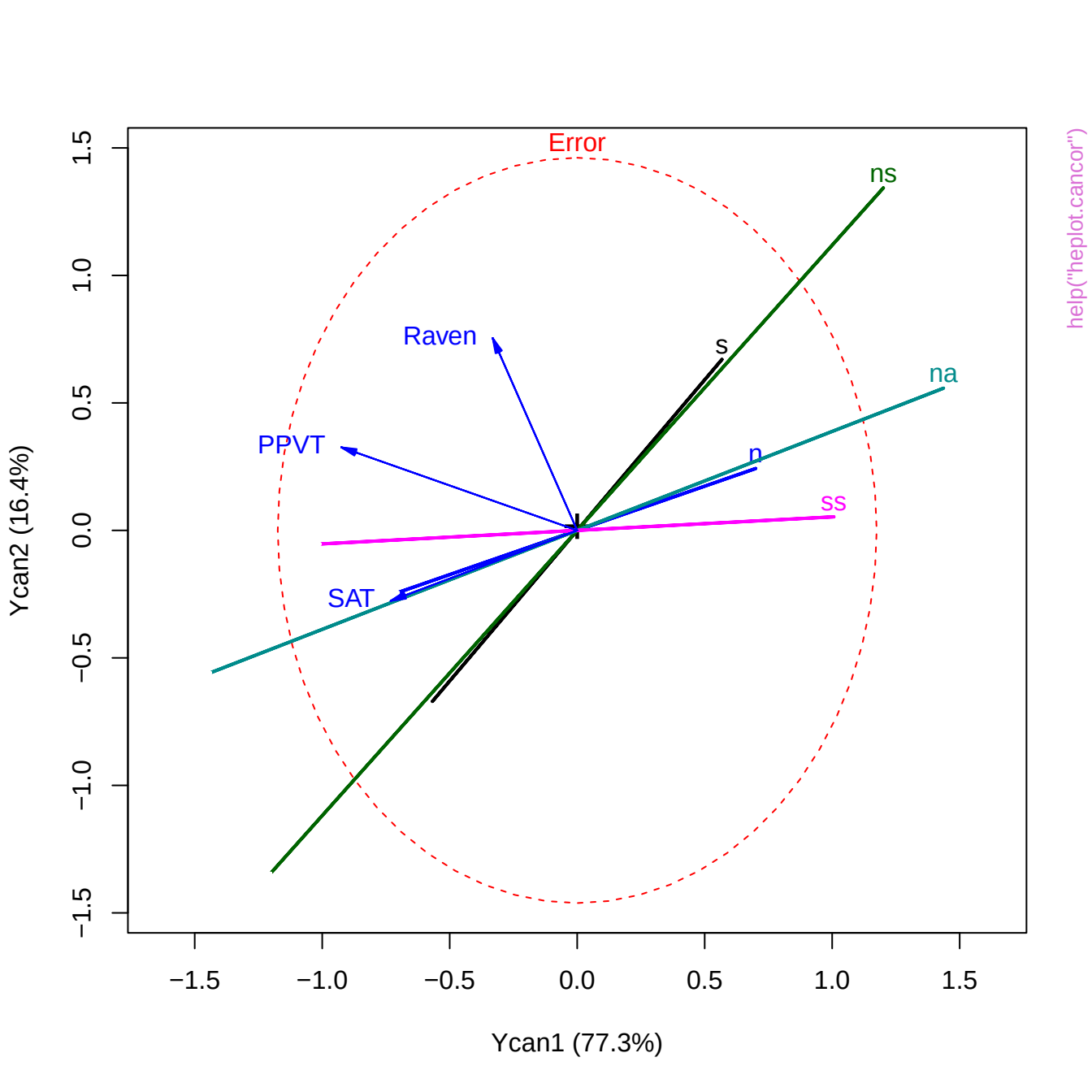

help("candiscList")
Can2 (31.5%)
Can1 (49%)
4
5
1
2
3
N243
N81
N27
N9
N1
−6
−4
−2
0
2
4
−4
−2
0
2
4

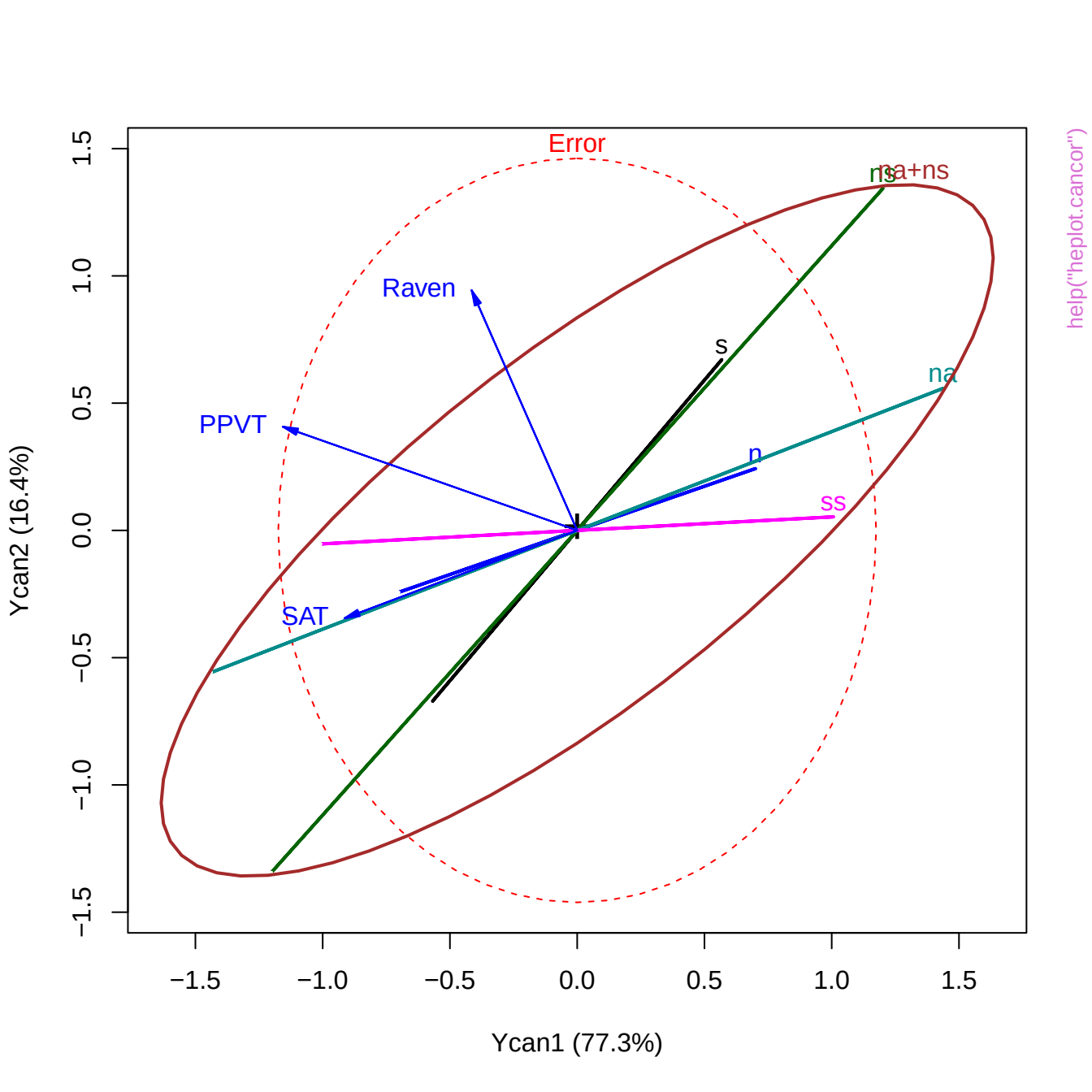

N1
N27
N81
N9
N243
B.media
F.ovina
K.cristata
H.pubesens
D.glomerata
L.perenne
F.bertolonii
F.rubra
Can1 (76.1%)
Can2 (19.8%)
−4
−2
0
2
4
6
help("candiscList")

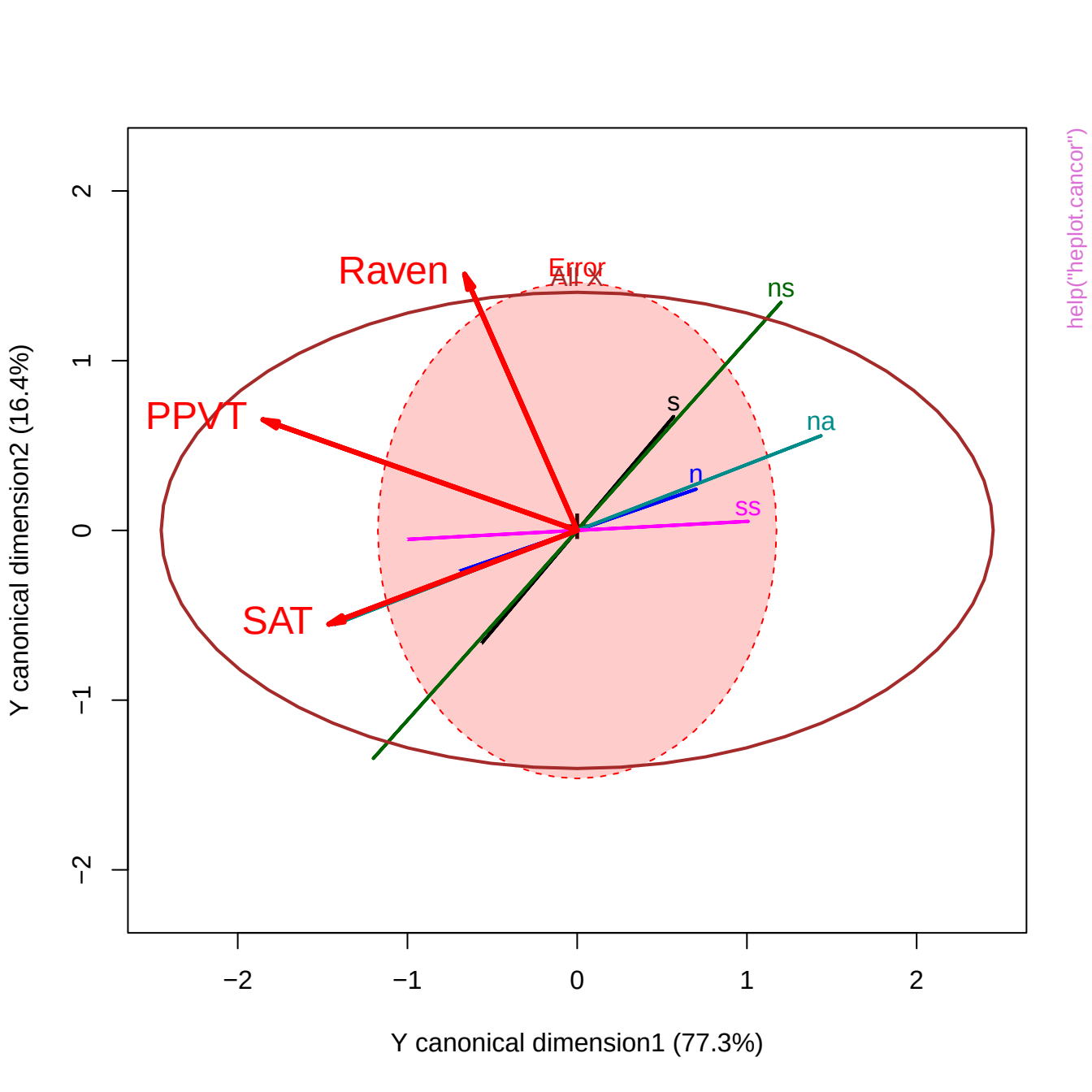

N1
Species
B.media
F.ovina
K.cristata
H.pubesens
N27
N81
D.glomerata
P.bertolonii
N9
L.perenne
N243
Error
F.rubra
Can2 (19.8%)
Can1 (76.1%)
6
4
2
0
−2
−4
−6
−6
−4
−2
0
2
4
6
help("candiscList")

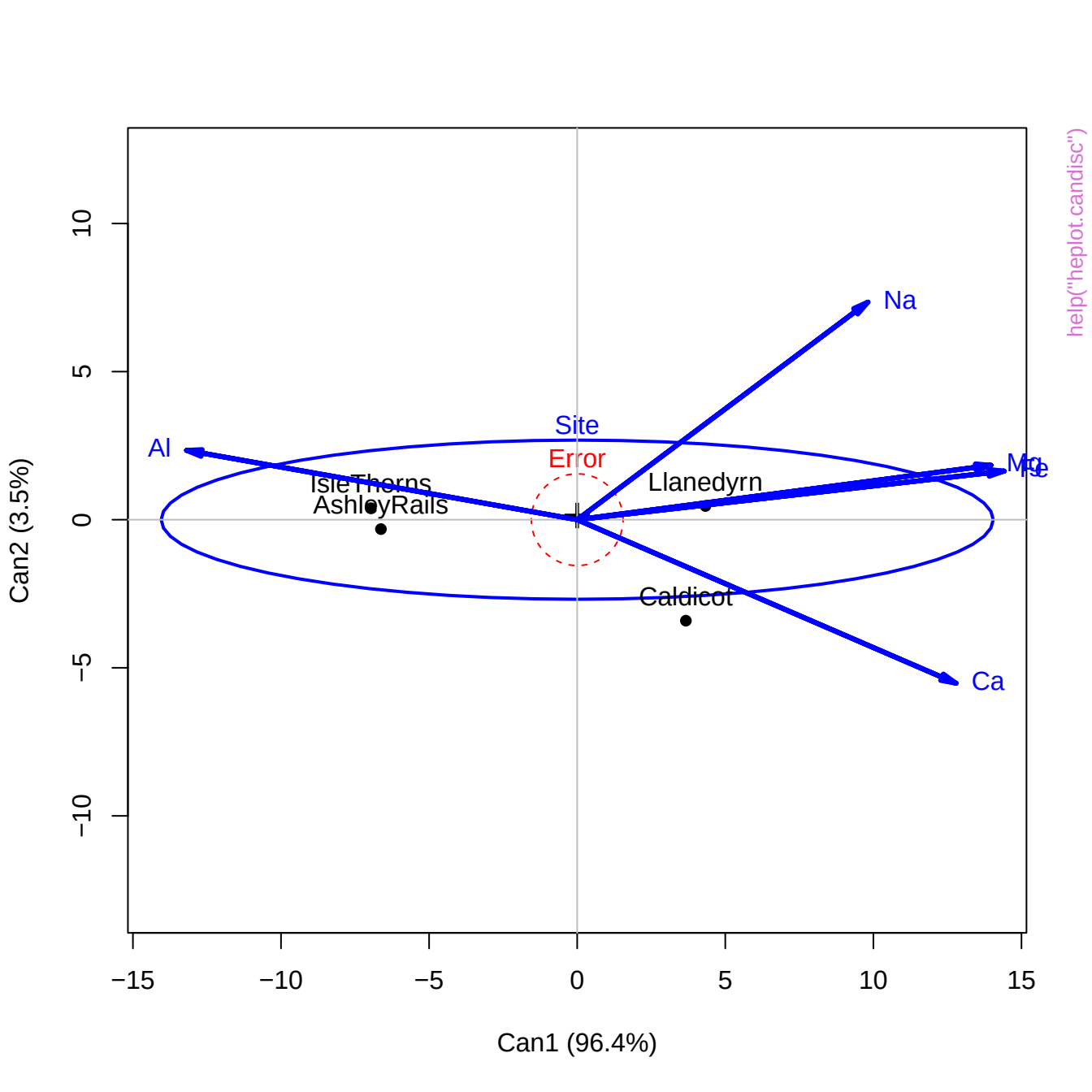

Can2 (31.5%)
Can1 (49%)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2
−1
0
1
2
1
2
3
4
5
N243
N81
N27
N9
N1
Error
Block
help("candiscList")

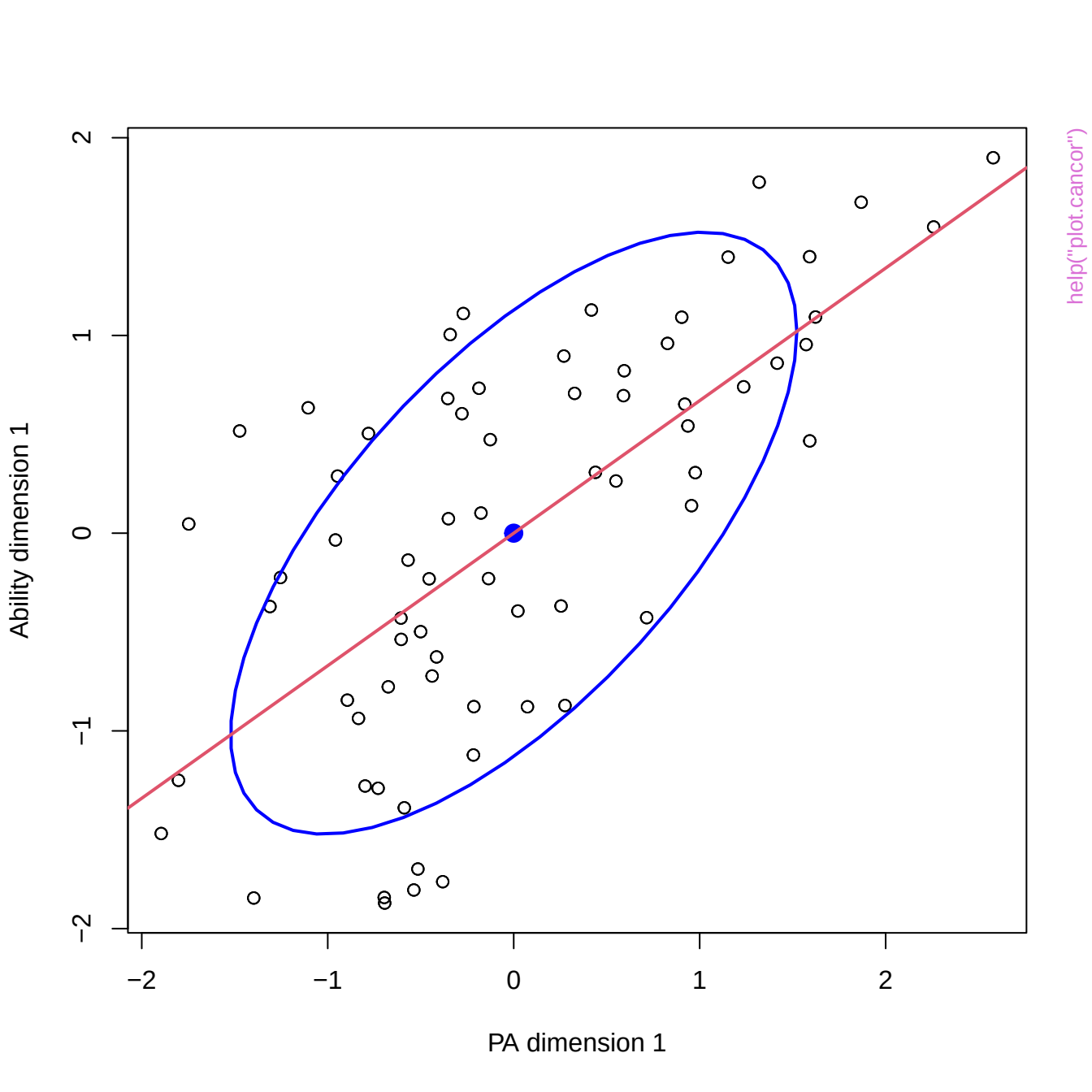

0.06
0.04
0.02
0.00
density
20
40
60
80
rating
help("cereal")
mfr_name
American Home Foods
General Mills
Kellog
Nabisco
Post
Quaker Oats
Ralston Purina

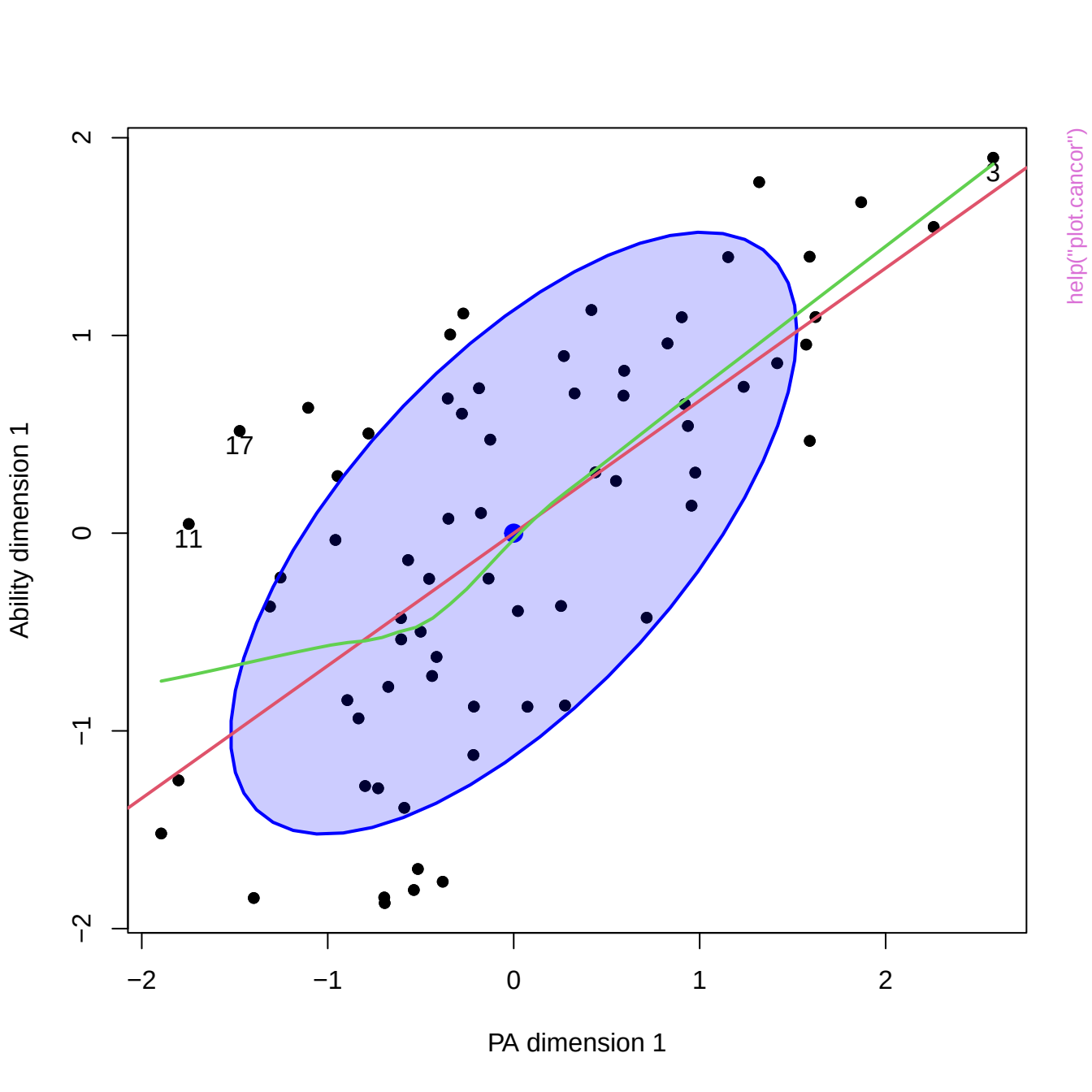

Error
ns
Raven
s
na
PPVT
n
ss
SAT
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
Ycan2 (16.4%)
Ycan1 (77.3%)
help("heplot.cancor")

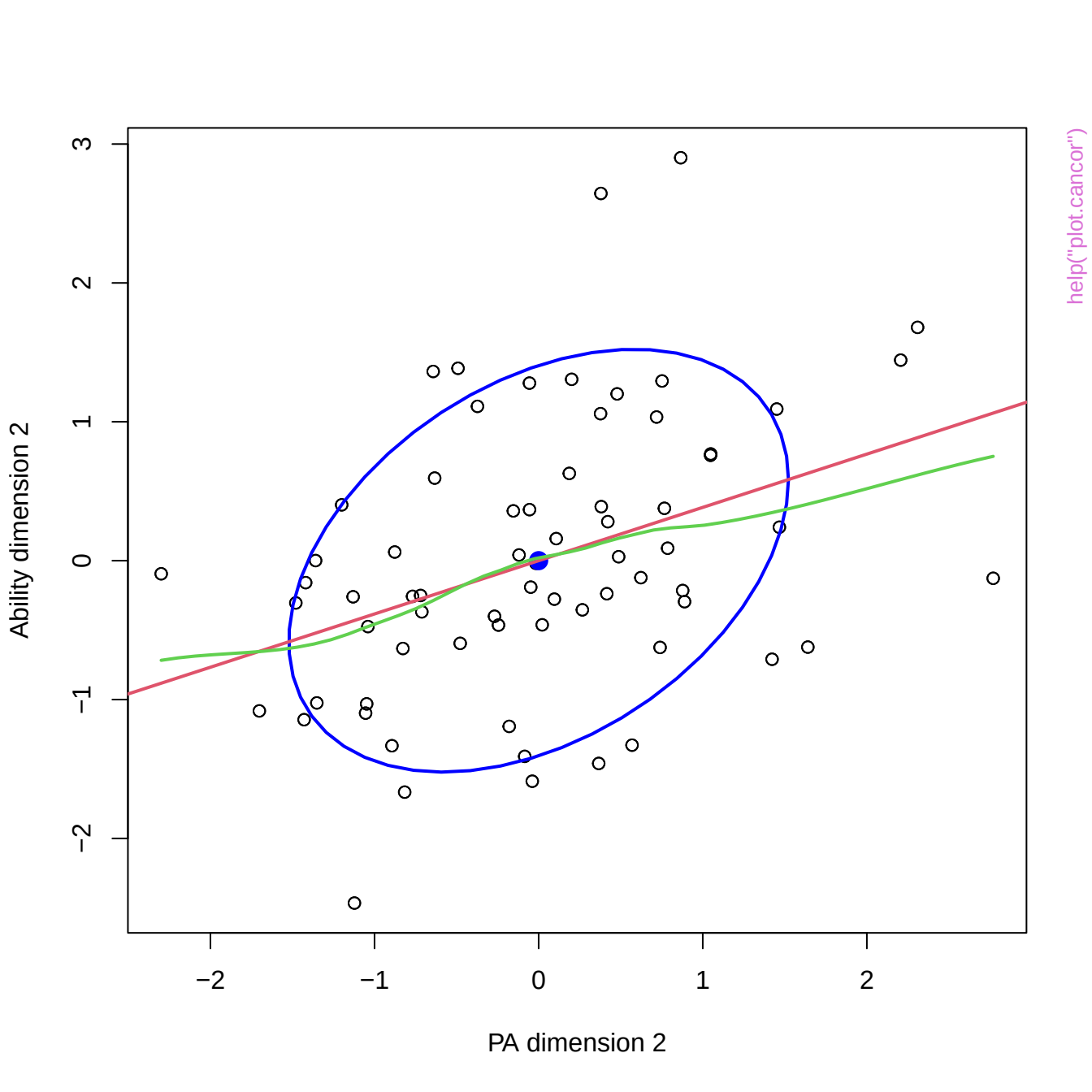

Error
na+ns
ns
Raven
s
na
PPVT
n
ss
SAT
Ycan2 (16.4%)
Ycan1 (77.3%)
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
help("heplot.cancor")

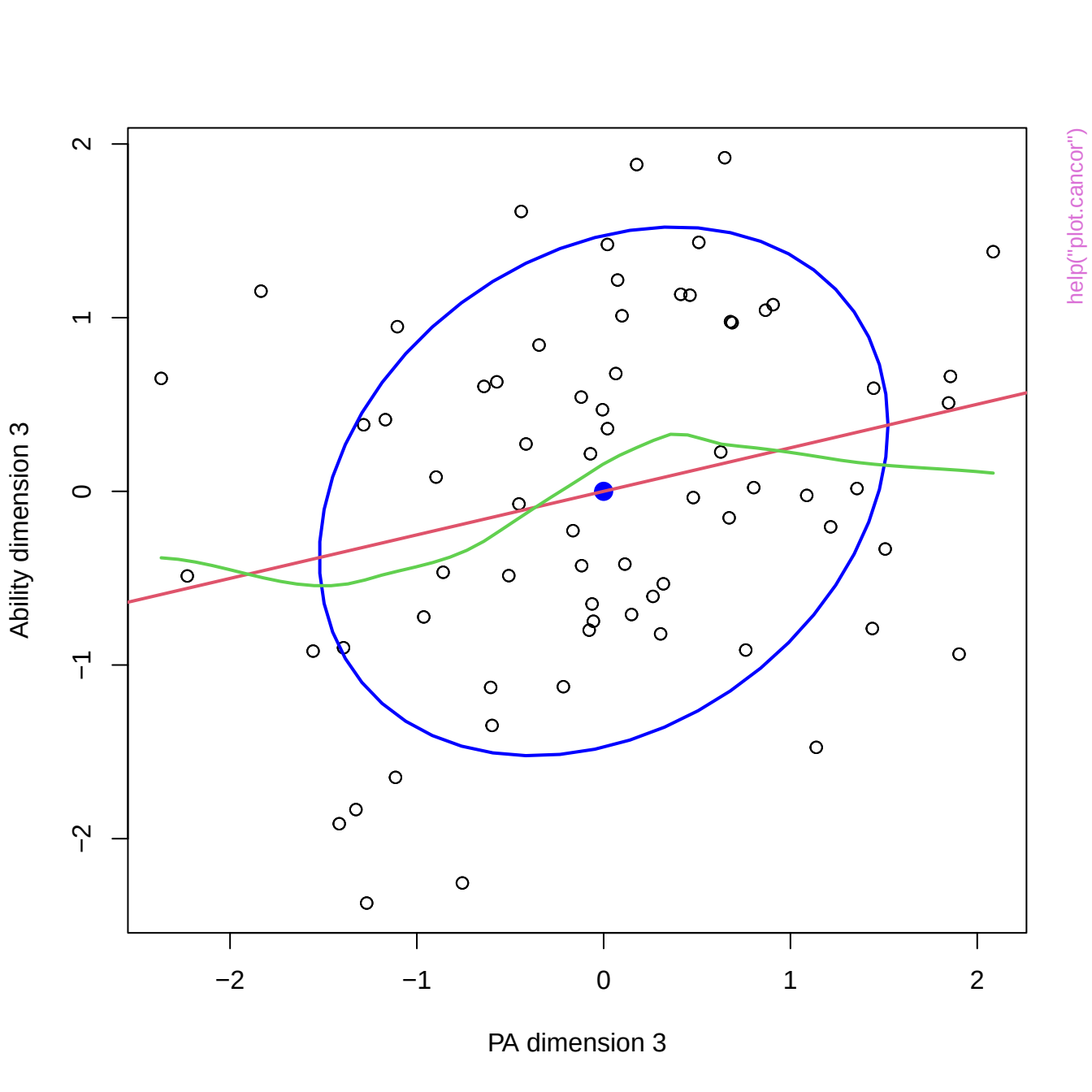

Raven
Error
All X
ns
PPVT
s
na
n
ss
SAT
2
1
0
−1
−2
Y canonical dimension2 (16.4%)
−2
−1
0
1
2
Y canonical dimension1 (77.3%)
help("heplot.cancor")

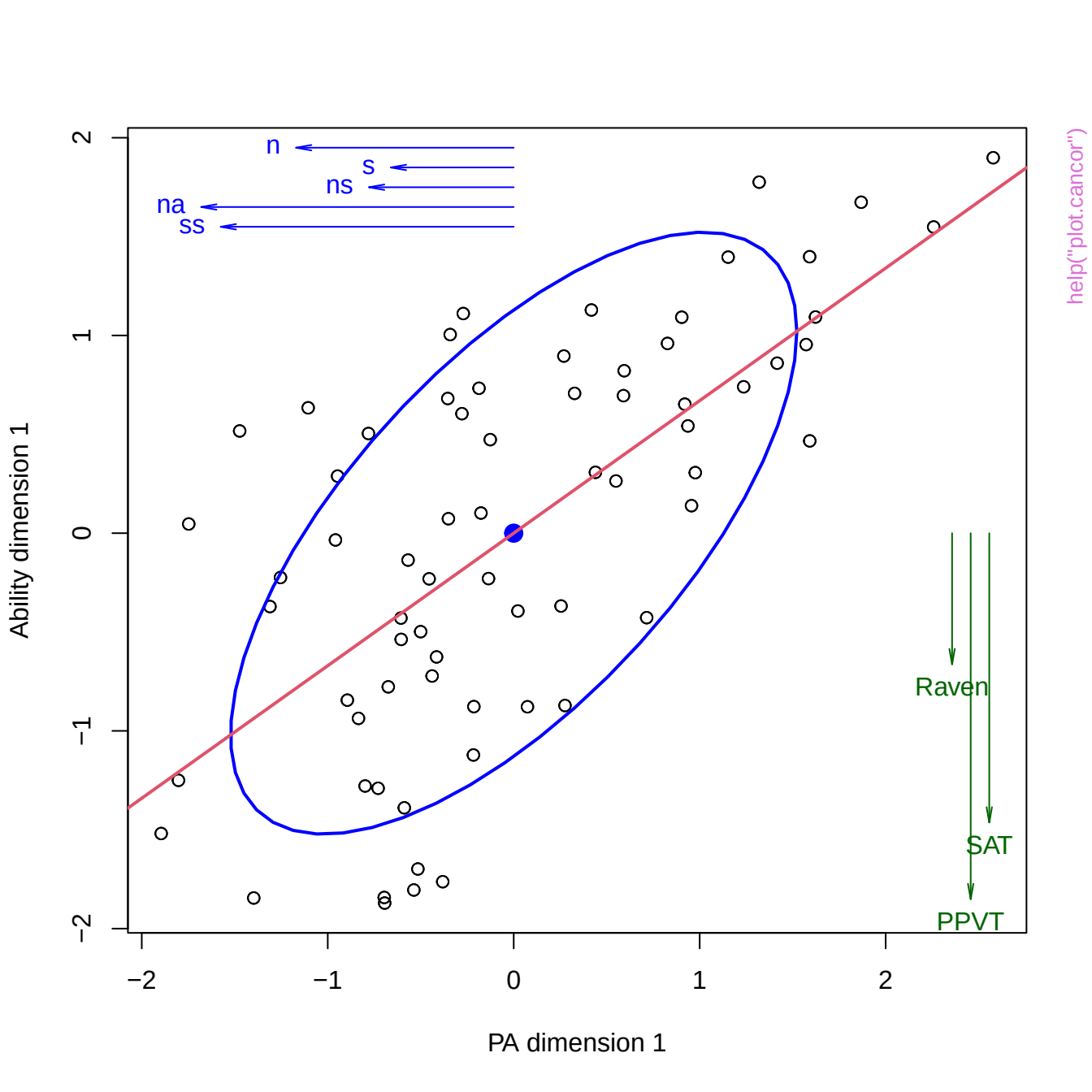

Na
Site
Error
Al
Mg
Isle Thorns
Ashley Rails
Llanedyrn
Caldicot
Ca
Can2 (3.5%)
Can1 (96.4%)
10
5
0
−5
−10
−15
−10
−5
0
5
10
15
help("heplot.candisc")

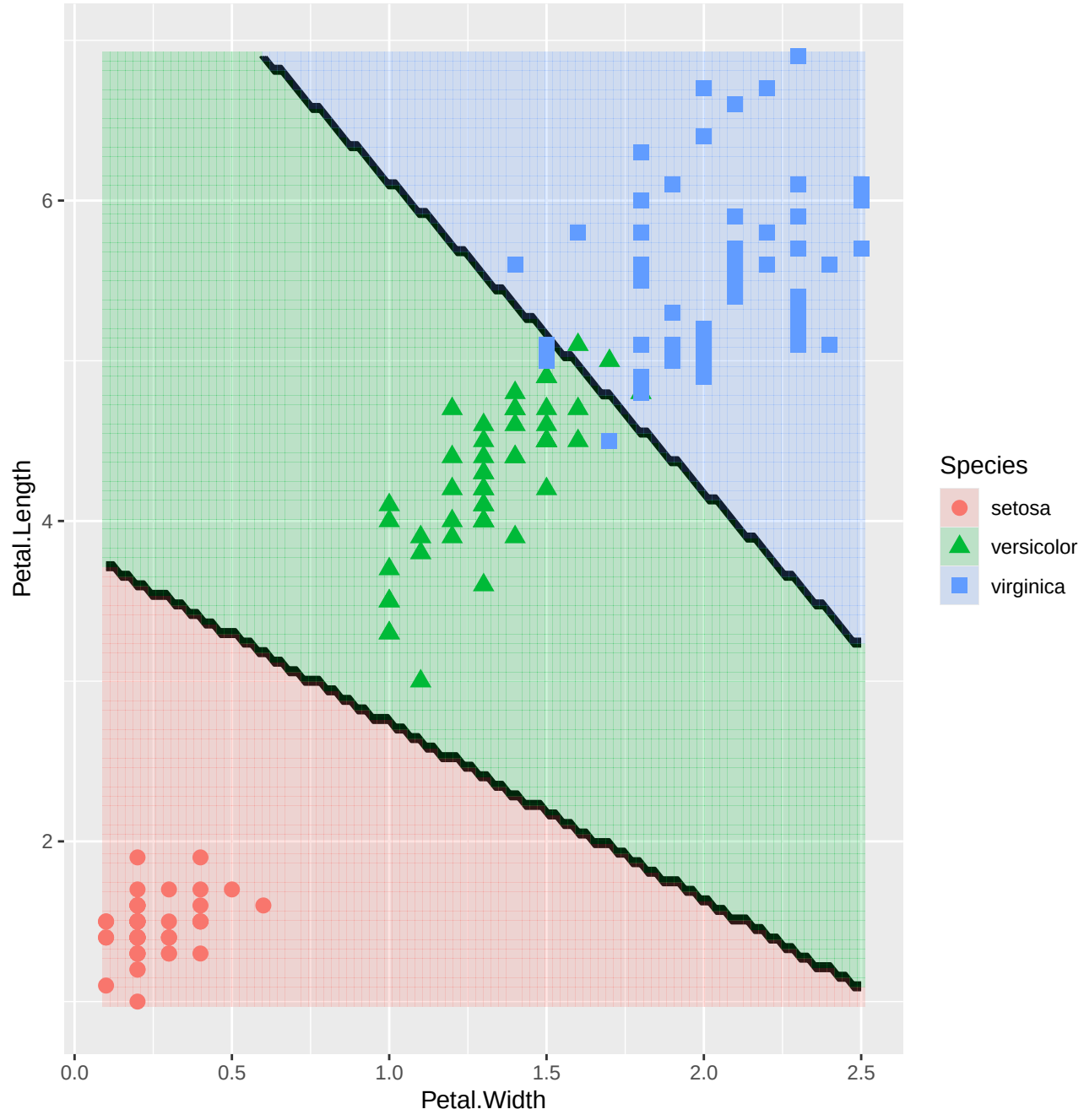

Ability dimension 1
PA dimension 1
2
1
0
−1
−2
−2
−1
0
1
2
help("plot.cancor")

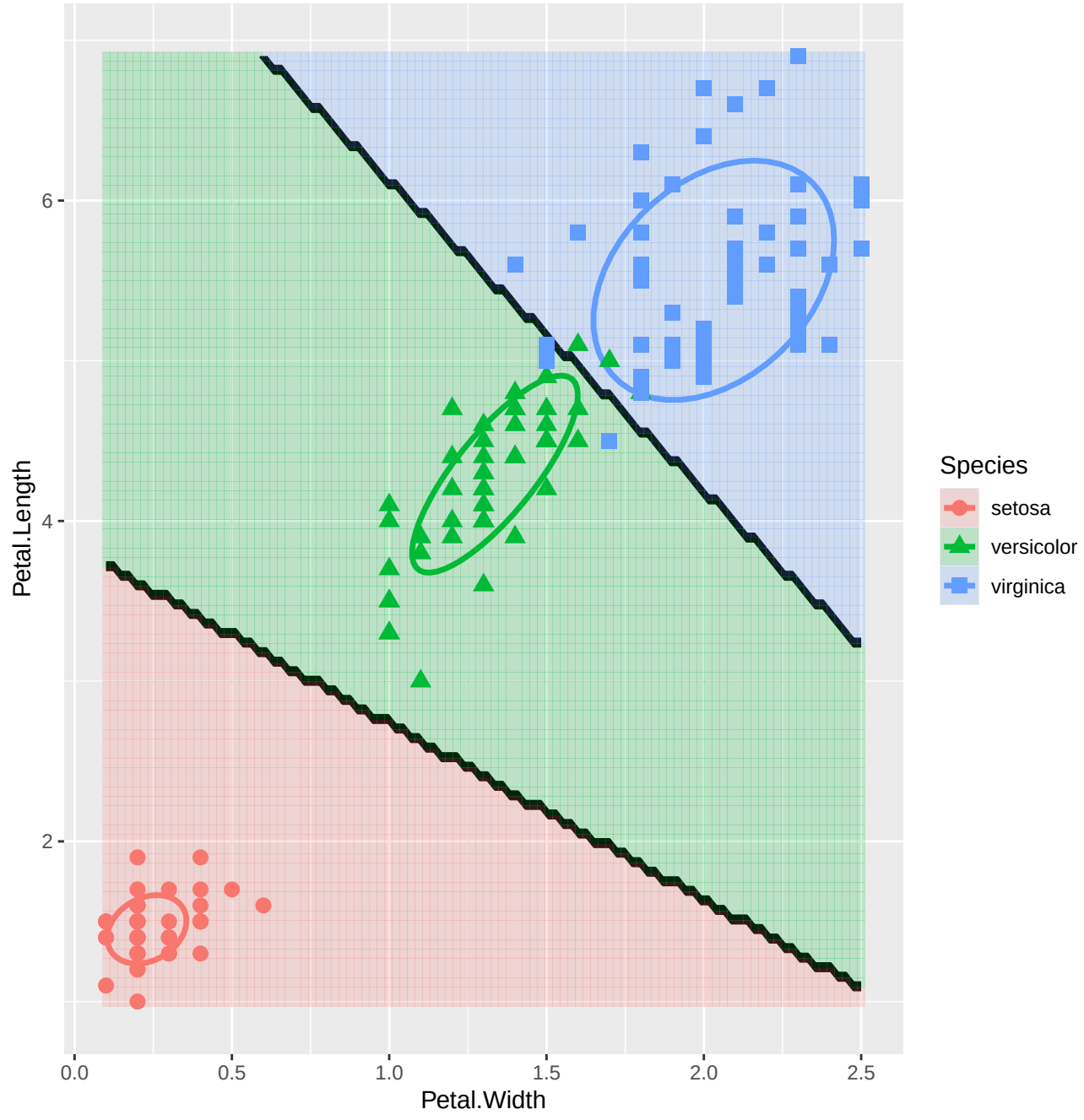

Ability dimension 1
PA dimension 1
2
1
0
−1
−2
−2
−1
0
1
2
3
17
11
help("plot.cancor")


Ability dimension 2
PA dimension 2
3
2
1
0
−1
−2
−2
−1
0
1
2
help("plot.cancor")

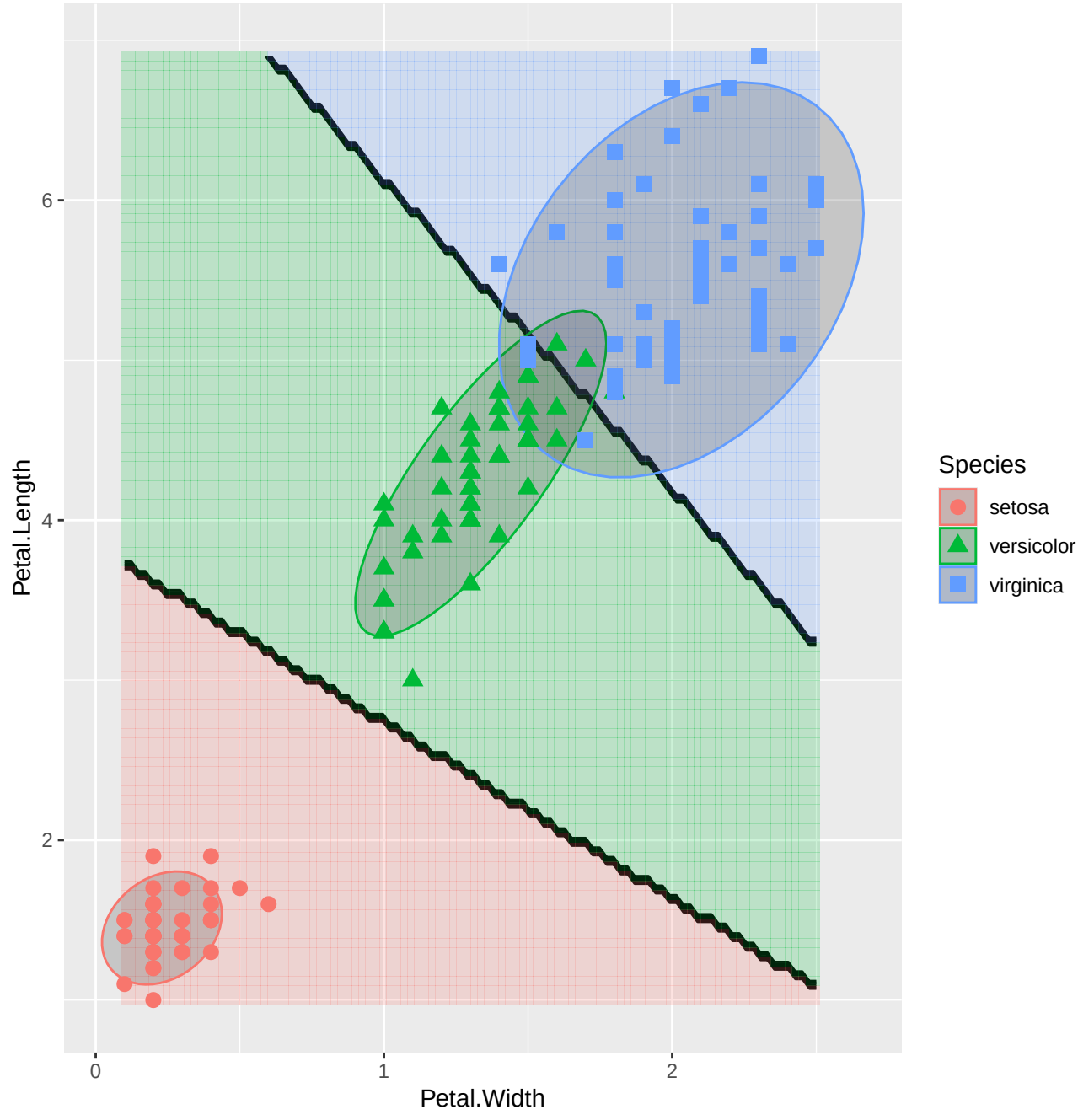

Ability dimension 3
PA dimension 3
2
1
0
−1
−2
−2
−1
0
1
2
help("plot.cancor")

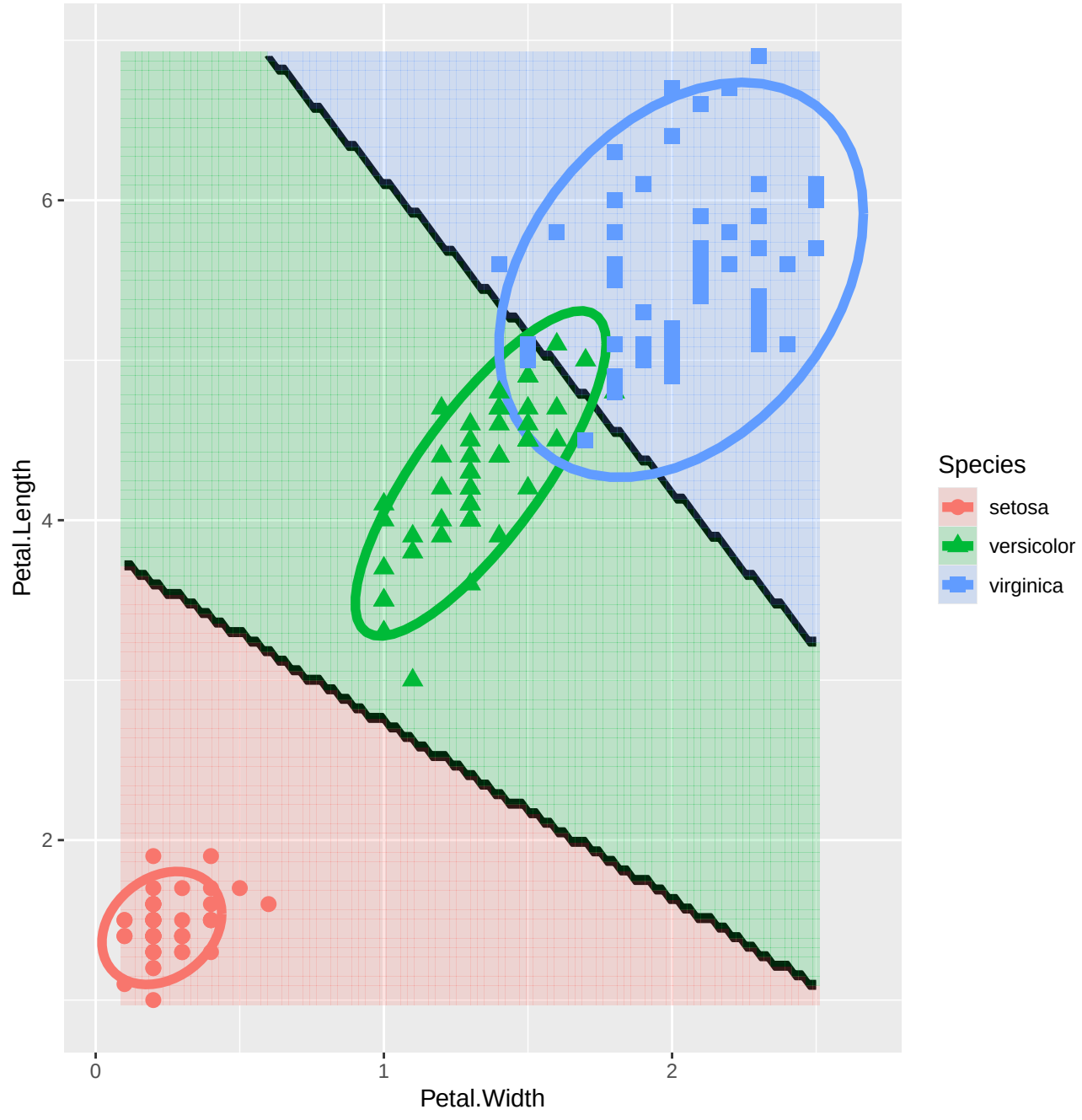

n
s
ns
na
ss
Raven
SAT
PPVT
Ability dimension 1
PA dimension 1
−2
−1
0
1
2
help("plot.cancor")

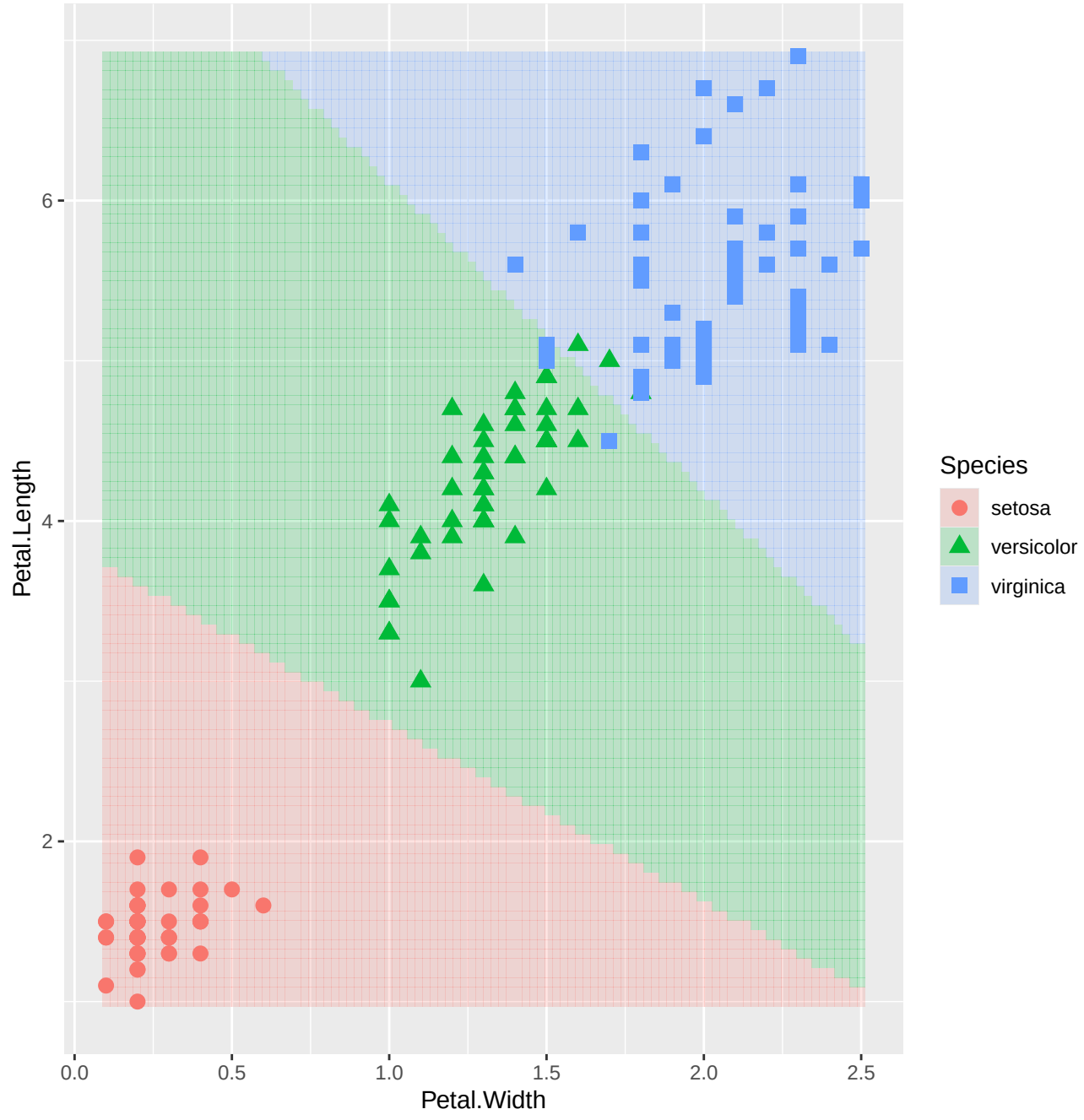

Petal.Length
6
4
2
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica
help("plot_discrim")

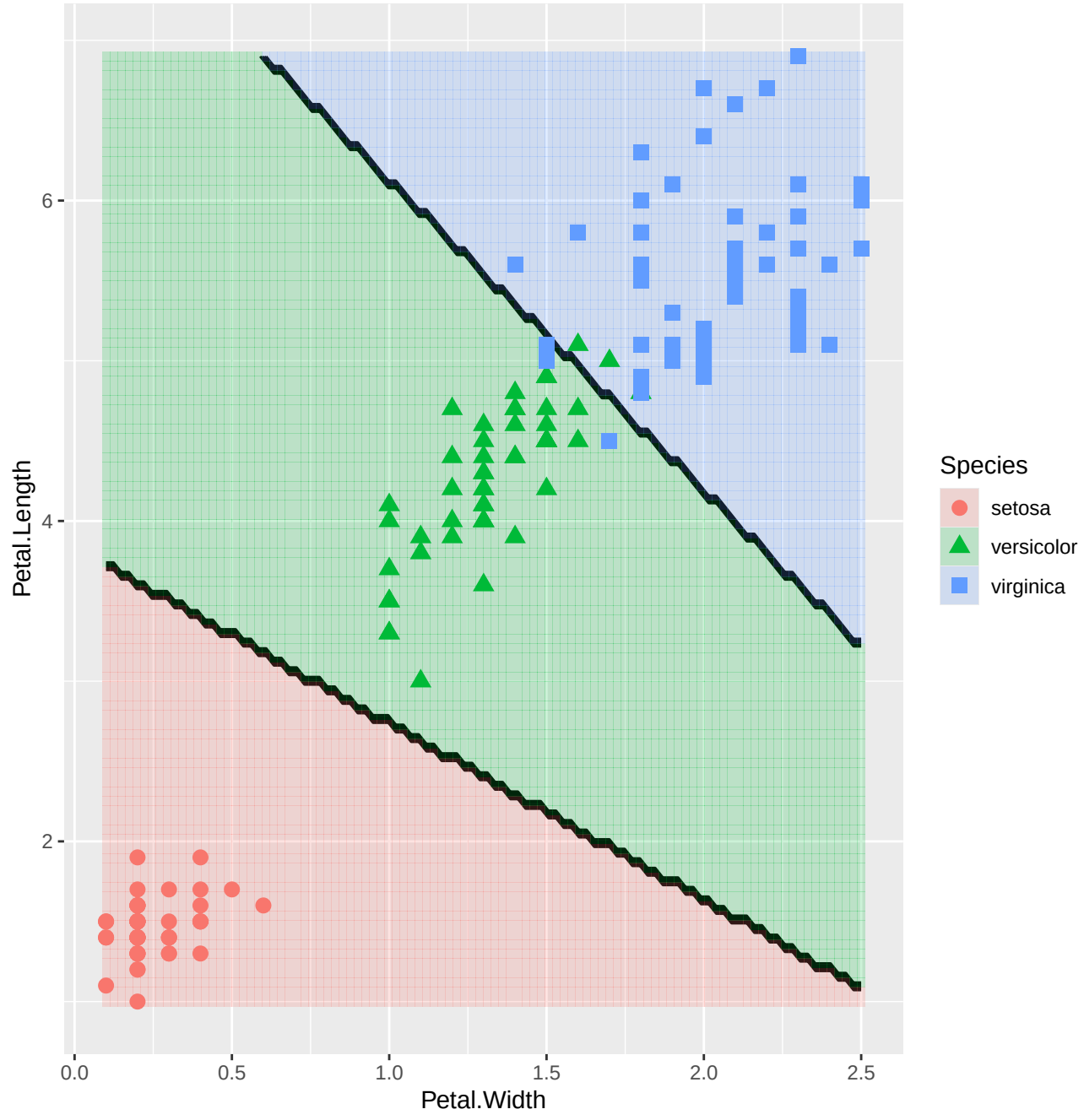


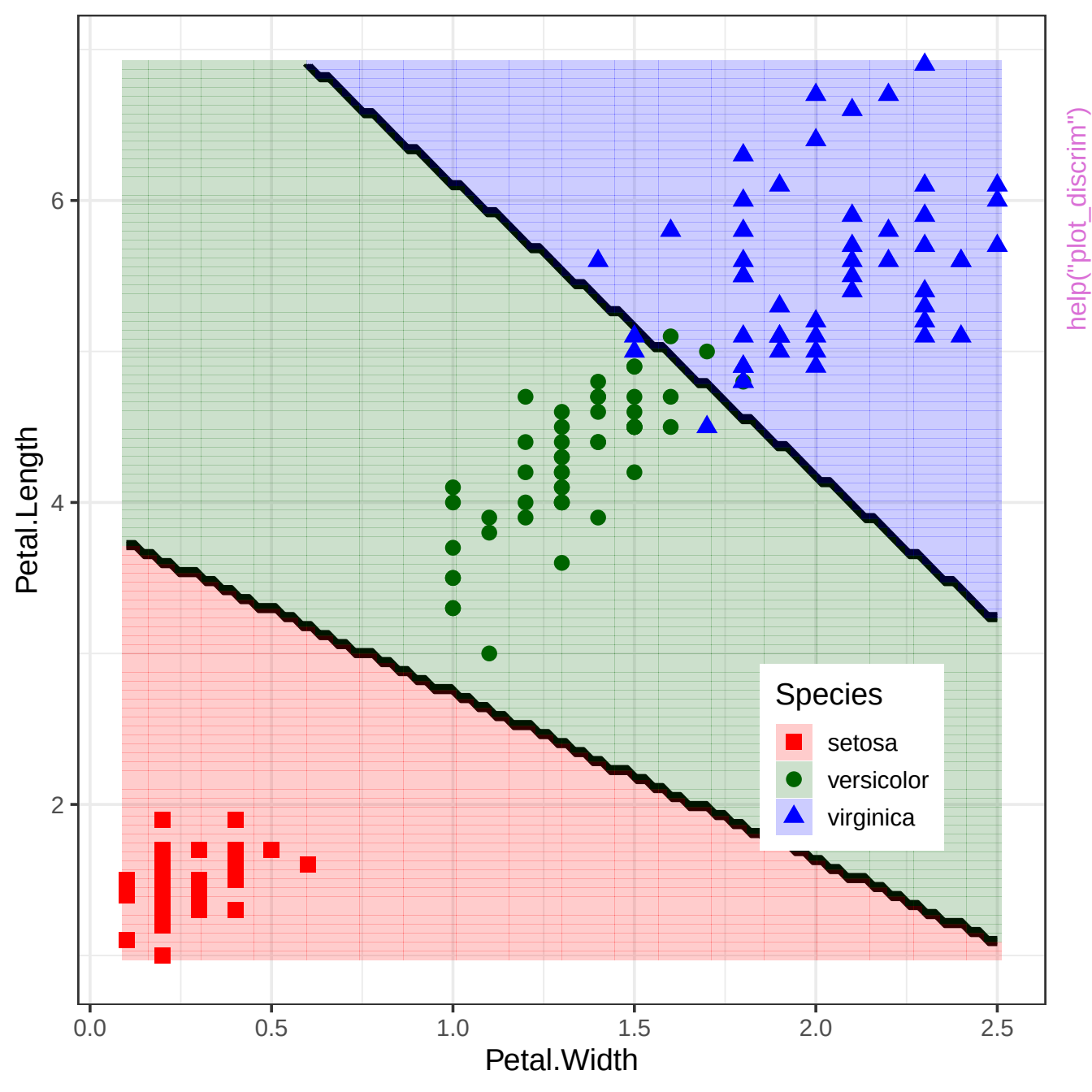
help("plot_discrim")

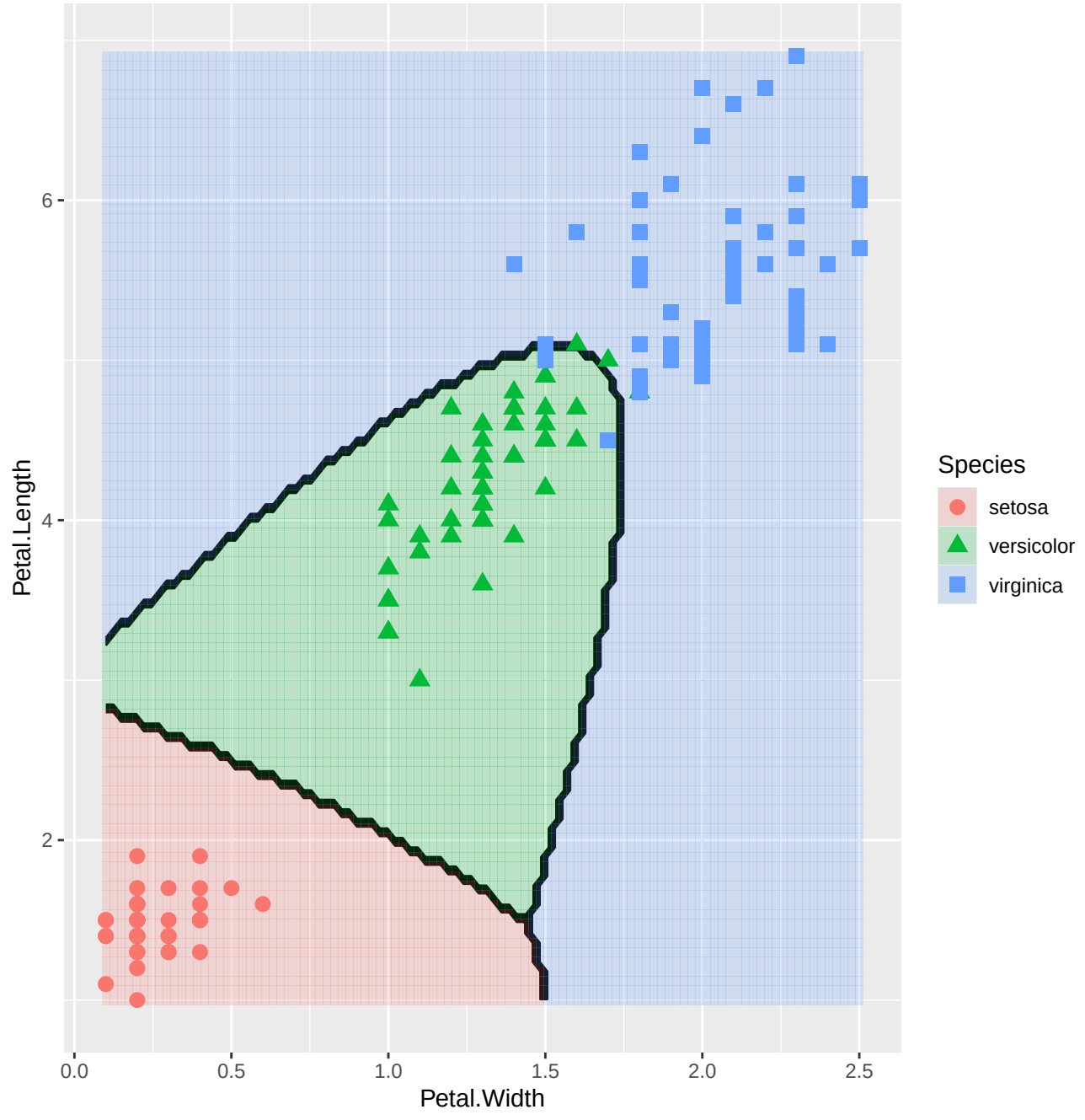

Petal.Length
6
4
2
0
1
2
Petal.Width
Species
setosa
versicolor
virginica
help("plot_discrim")


Petal.Length
6
4
2
0
1
2
Petal.Width
Species
setosa
versicolor
virginica
help("plot_discrim")

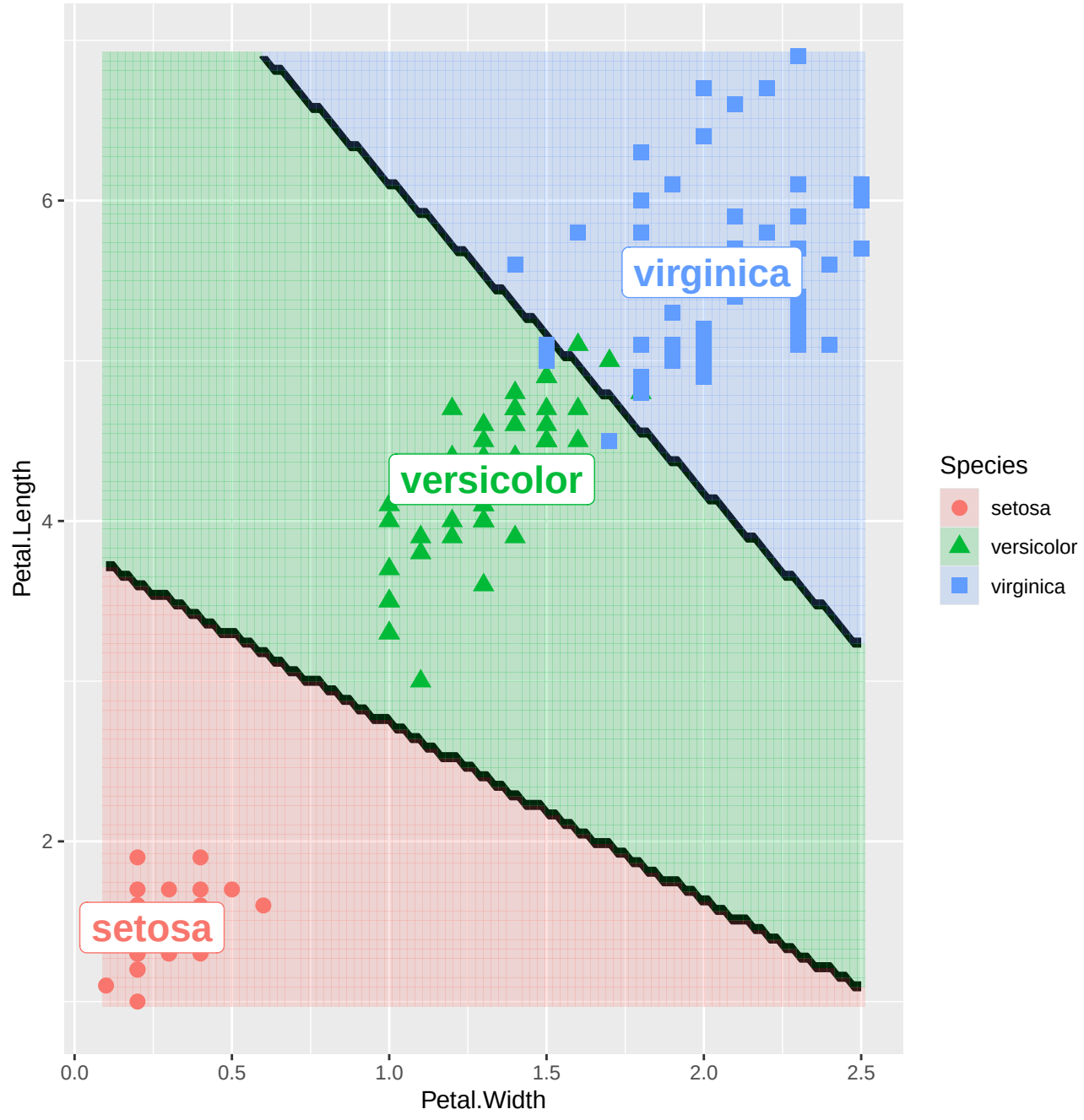

Petal.Length
6
4
2
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica
help("plot_discrim")


Petal.Length
6
4
2
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica
help("plot_discrim")

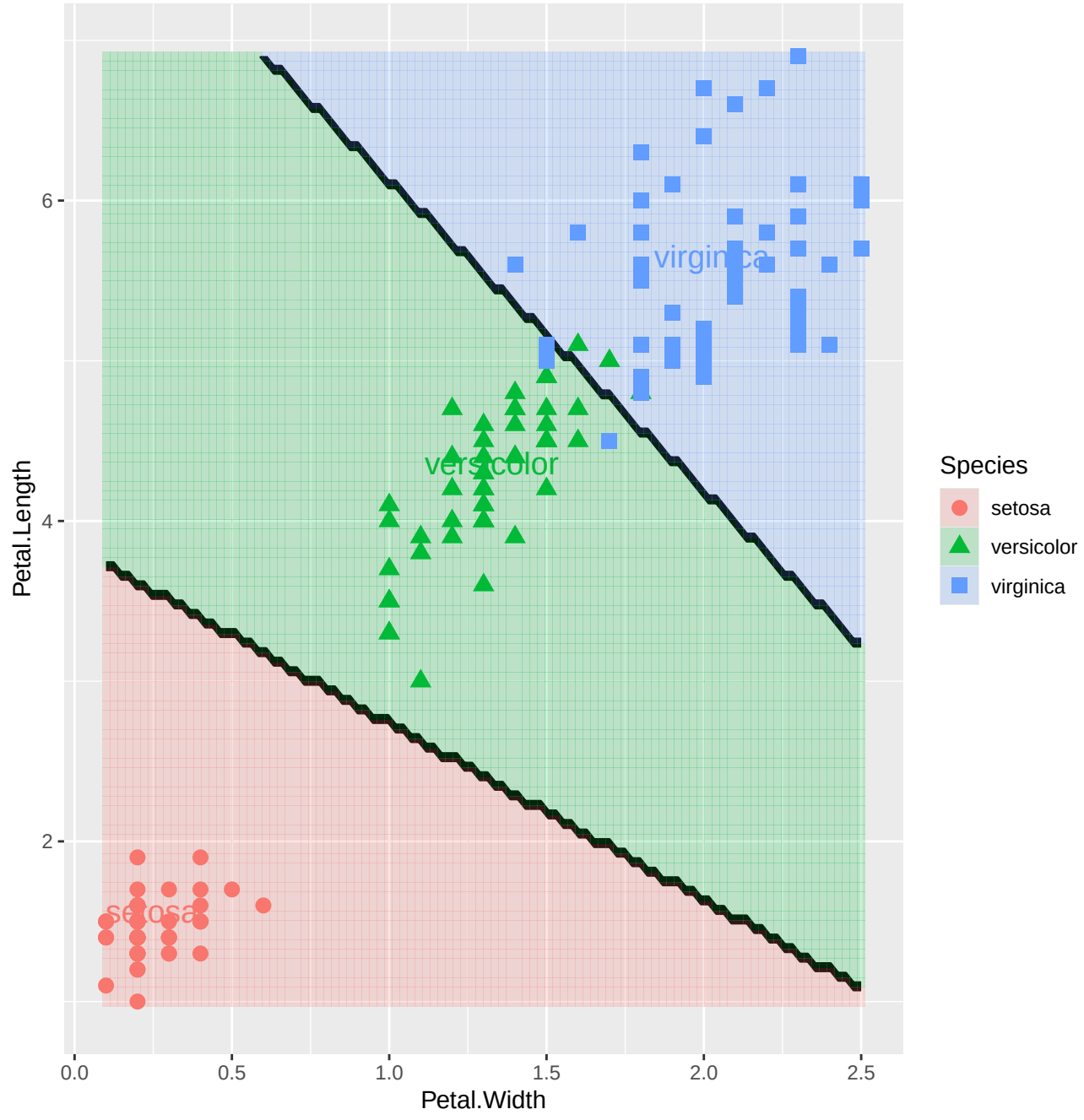

help("plot_discrim")
Petal.Length
6
4
2
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica



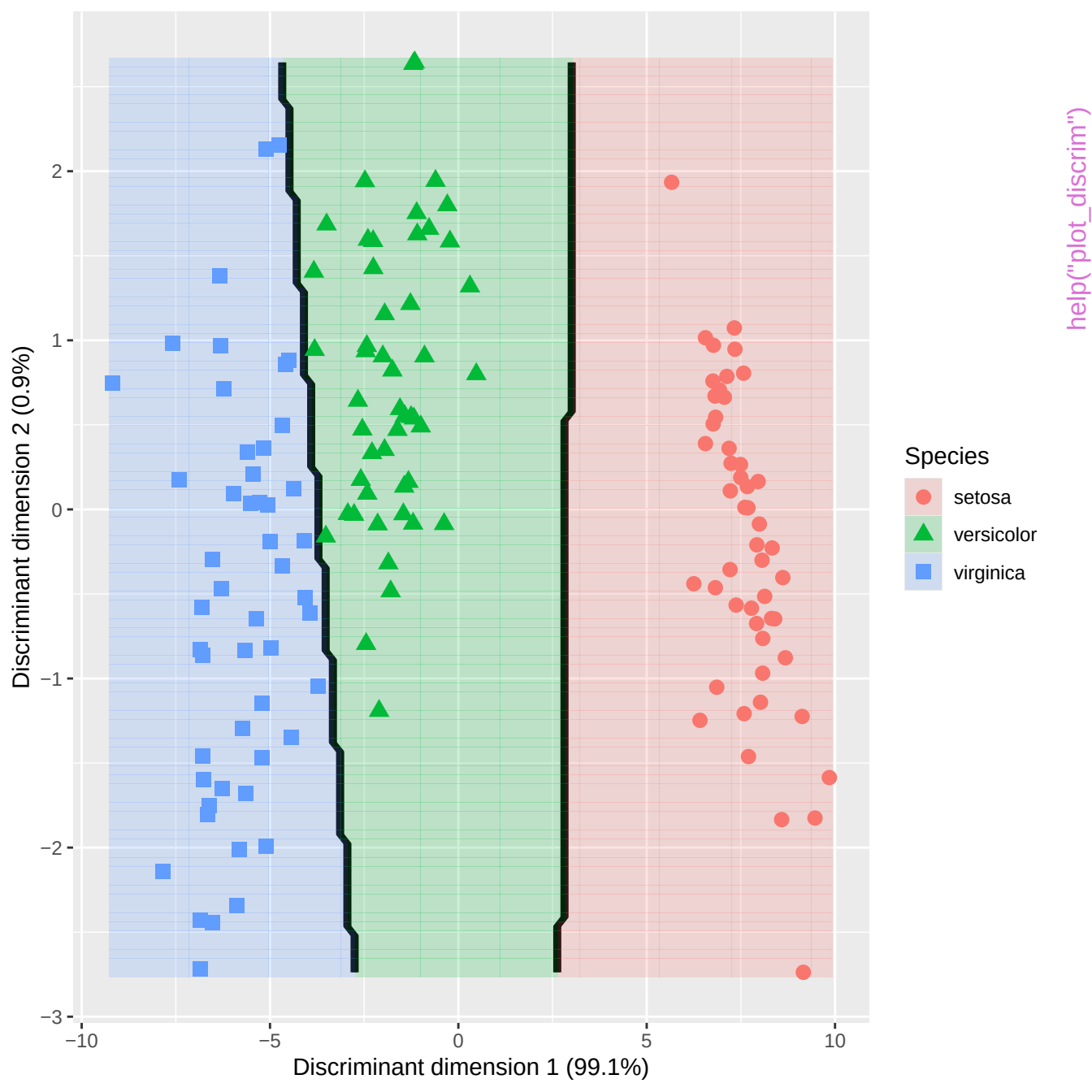
help("plot_discrim")

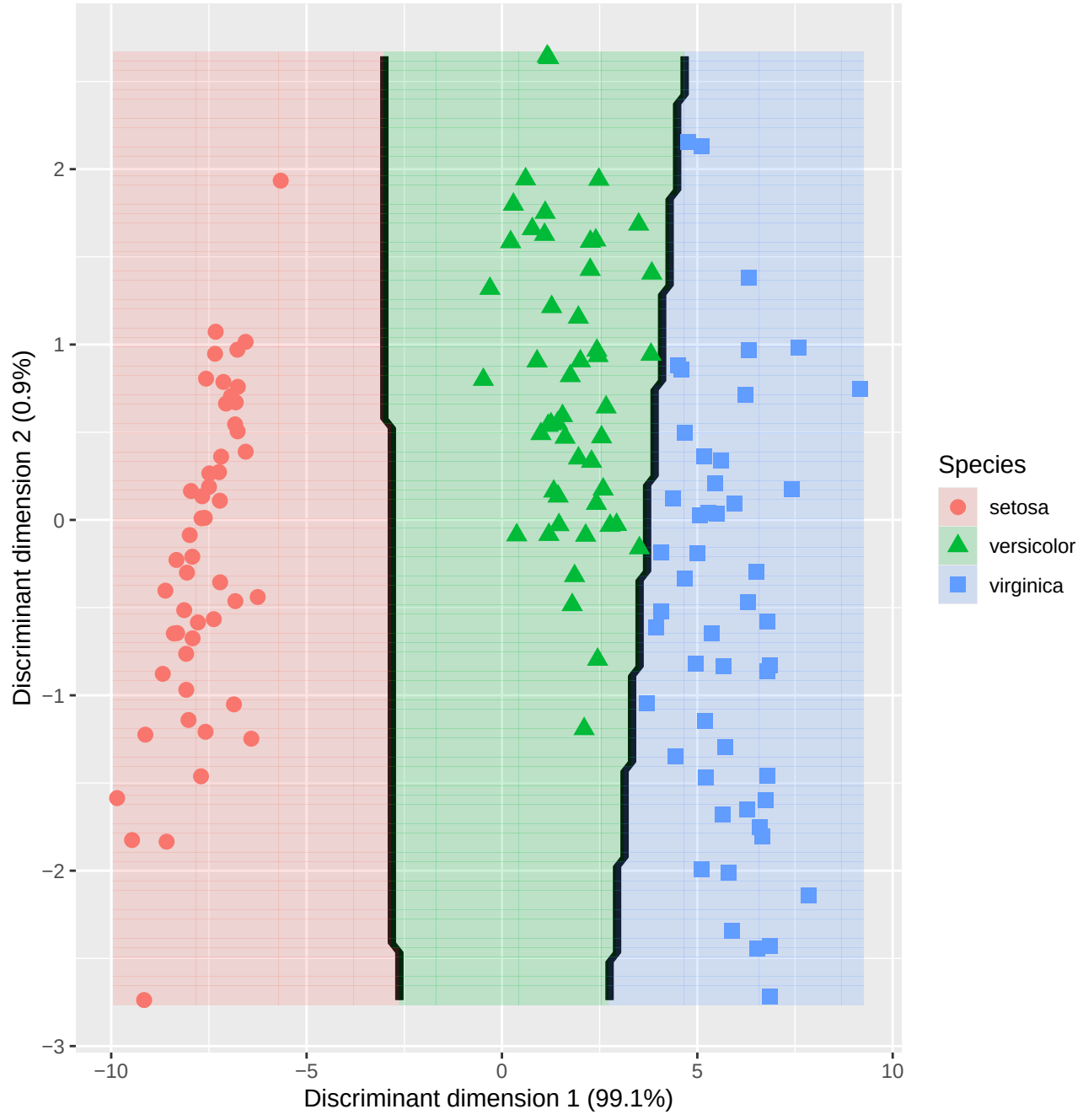


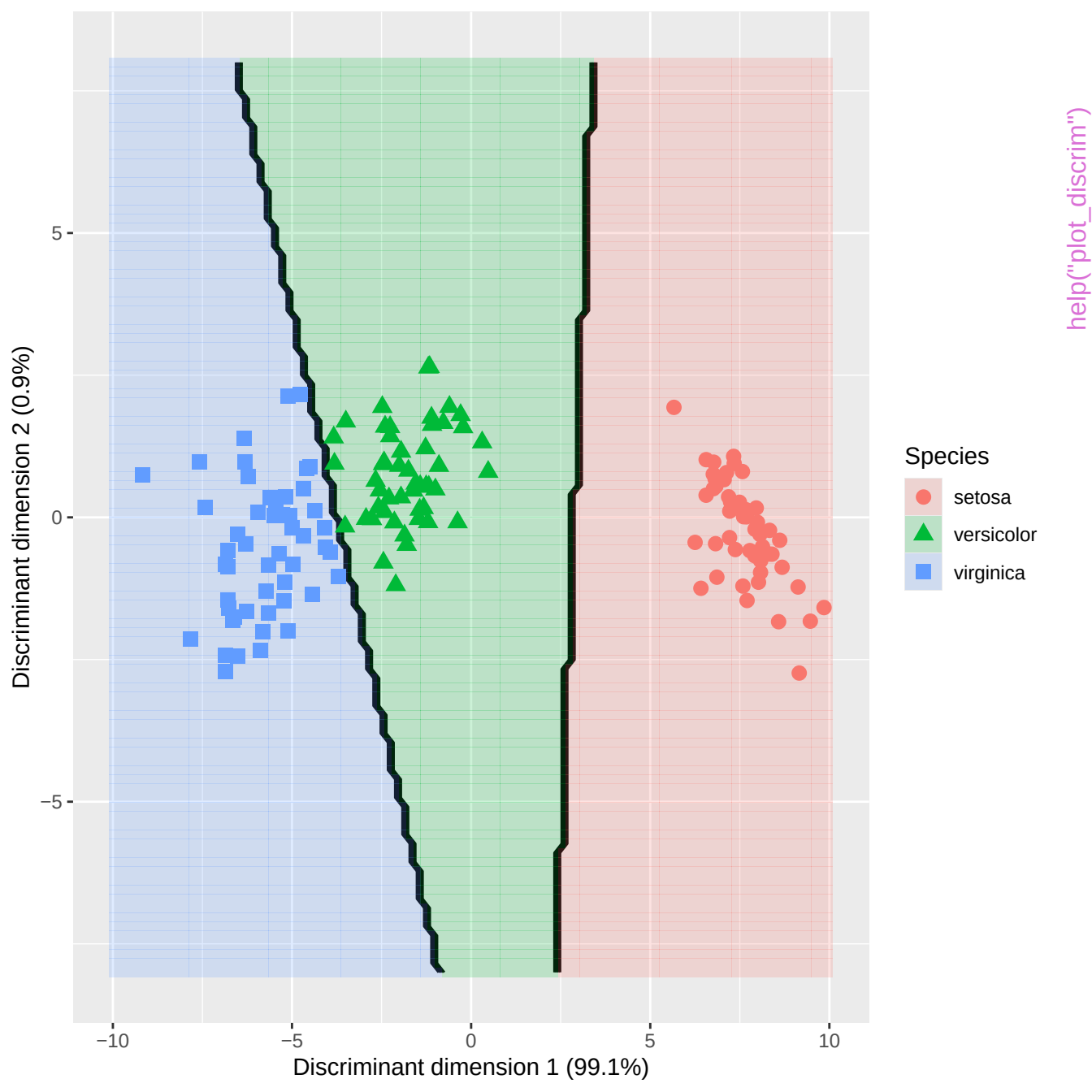
help("plot_discrim")

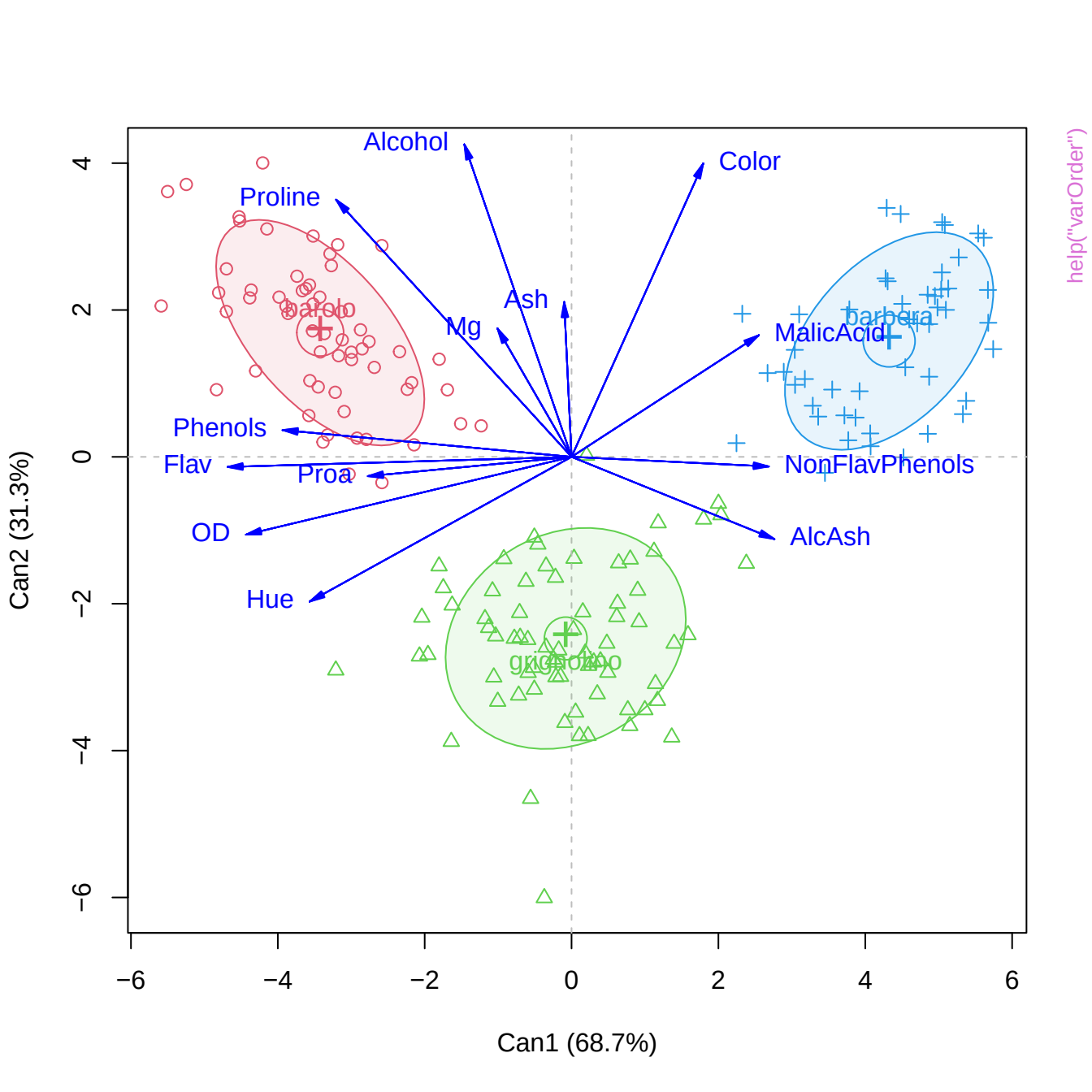


help("plot_discrim")

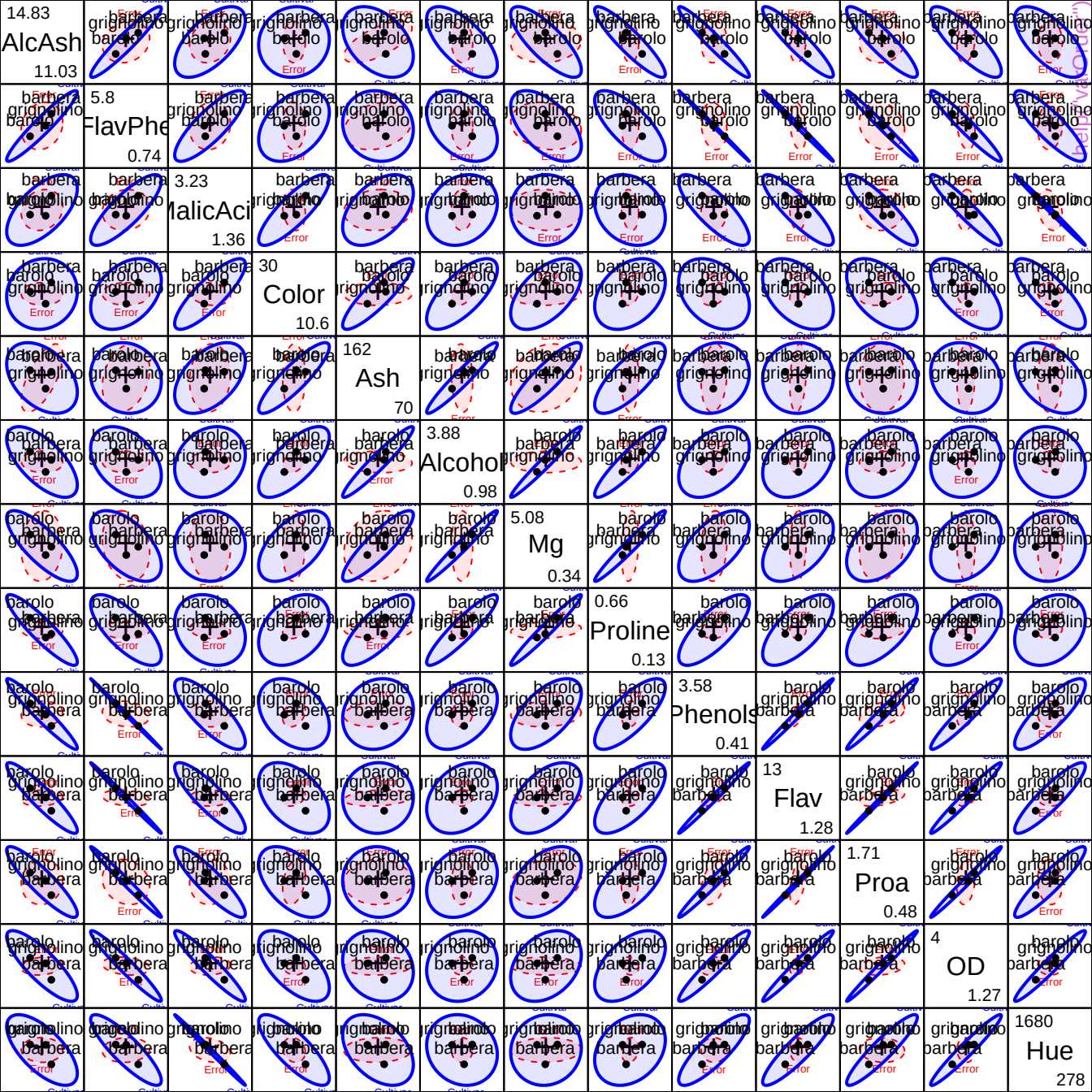

Discriminant dimension 2 (0.9%)
2
1
0
−1
−2
−3
−10
−5
0
5
10
Discriminant dimension 1 (99.1%)
Species
setosa
versicolor
virginica
help("plot_discrim")

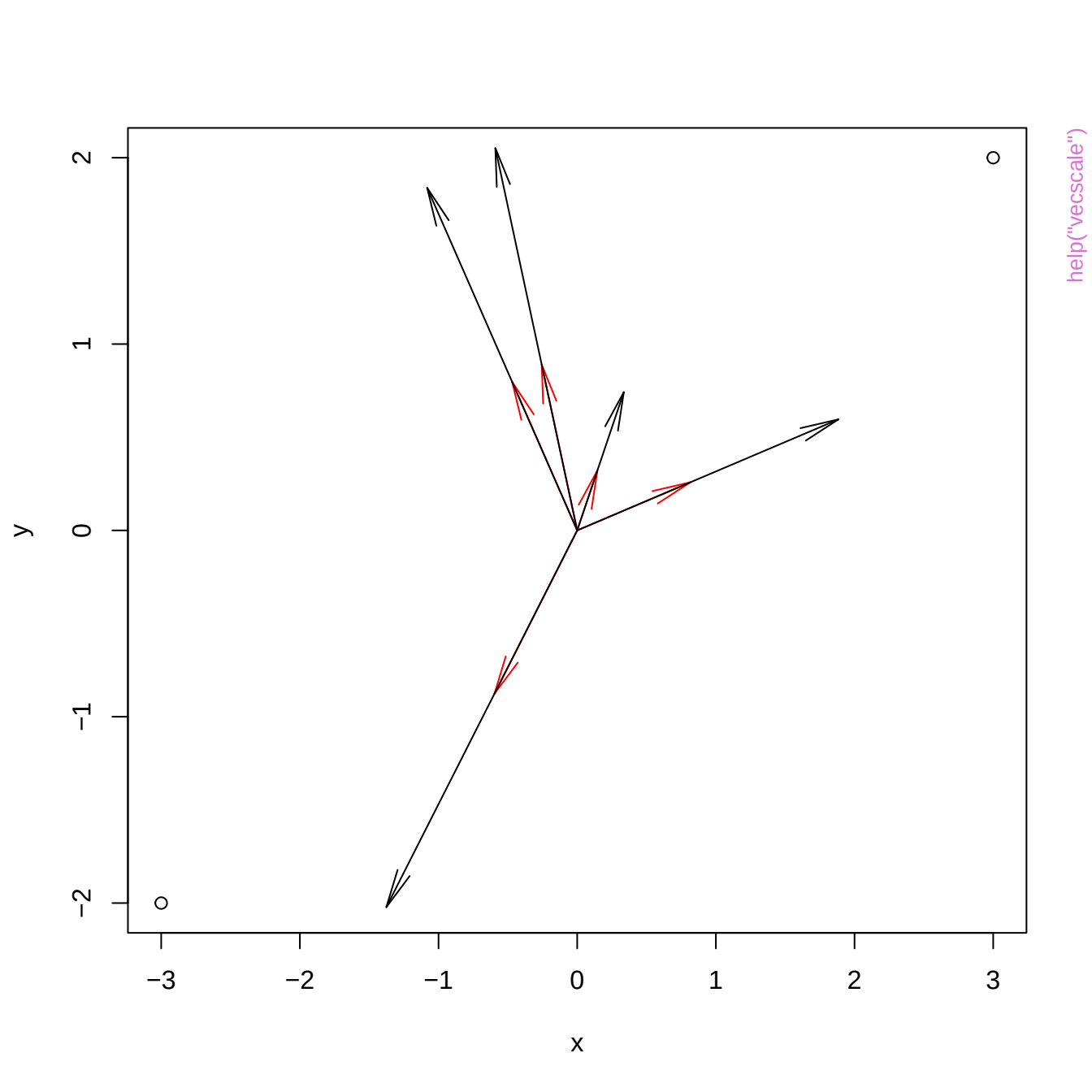

Discriminant dimension 2 (0.9%)
2
1
0
−1
−2
−3
−10
−5
0
5
10
Discriminant dimension 1 (99.1%)
Species
setosa
versicolor
virginica
help("plot_discrim")

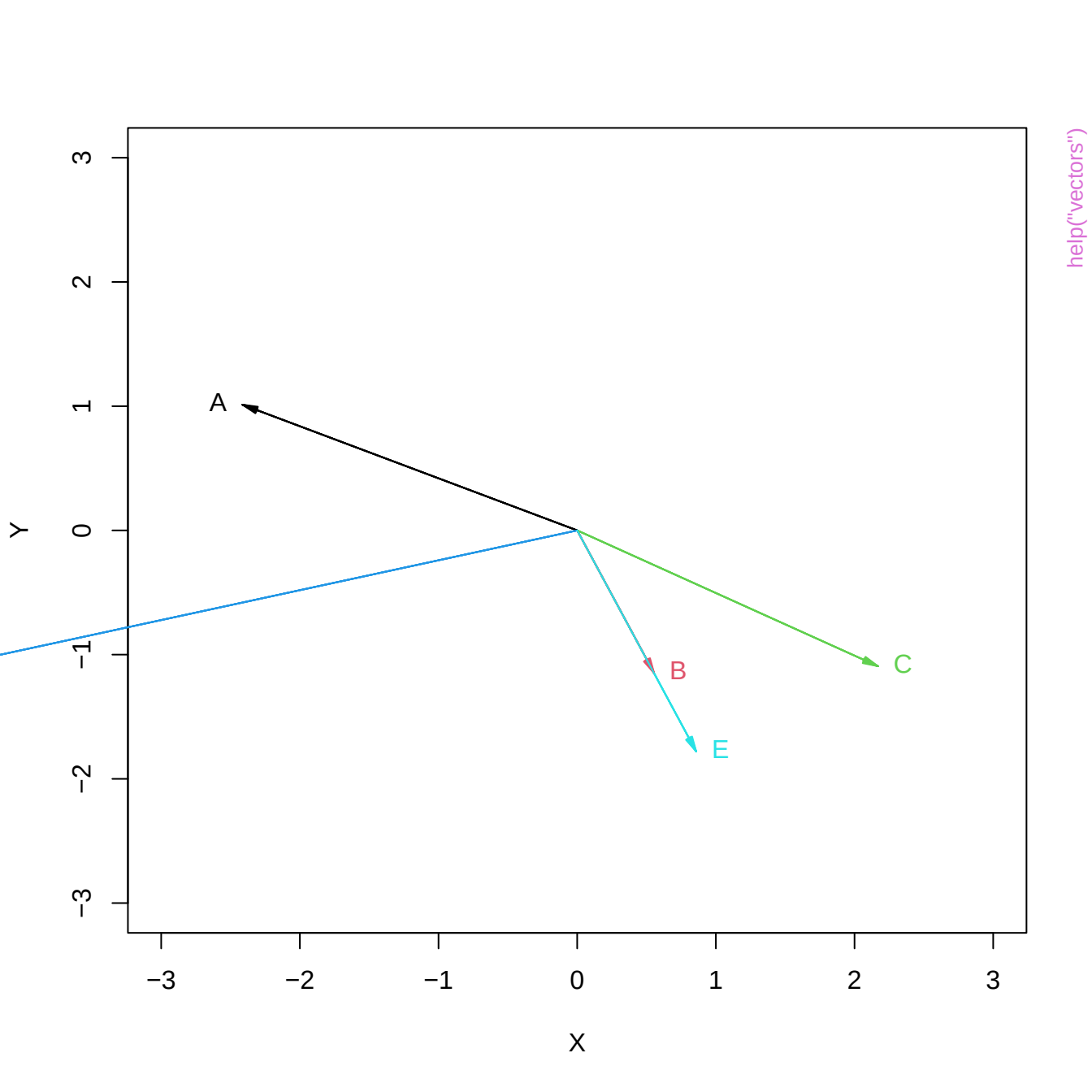

Discriminant dimension 2 (0.9%)
5
0
−5
−10
−5
0
5
10
Discriminant dimension 1 (99.1%)
Species
setosa
versicolor
virginica
help("plot_discrim")


Alcohol
Color
Proline
Ash
Mg
MalicAcid
barbera
Phenols
Flav
Proa
NonFlavPhenols
OD
AlcAsh
Hue
grignolino
Can2 (31.3%)
Can1 (68.7%)
help("varOrder")

14.83
Alcohol
11.03
5.8
MalicAci
0.74
3.23
Ash
1.36
30
AlcAsh
10.6
162
Mg
70
3.88
Phenols
0.98
5.08
Flav
0.34
0.66
FlavPhe
0.13
3.58
Proa
0.41
13
Color
1.28
1.71
Hue
0.48
4
OD
1.27
1680
Proline
278
barolo
grignolino
barbera
Error
Cultivar
VarOrder


14.83
AlcAsh
11.03
5.8
FlavPhe
0.74
3.23
MalicAci
1.36
30
Color
10.6
162
Ash
70
3.88
Alcohol
0.98
5.08
Mg
0.34
0.66
Proline
0.13
3.58
Phenols
0.41
13
Flav
1.28
1.71
Proa
0.48
4
OD
1.27
1680
Hue
278
barbera
barolo
grignolino
Error


help("vecscale")
y
x
2
1
0
−1
−2
−3
−2
−1
0
1
2
3


help("vectors")
A
B
C
E
X
Y
−3
−2
−1
0
1
2
3