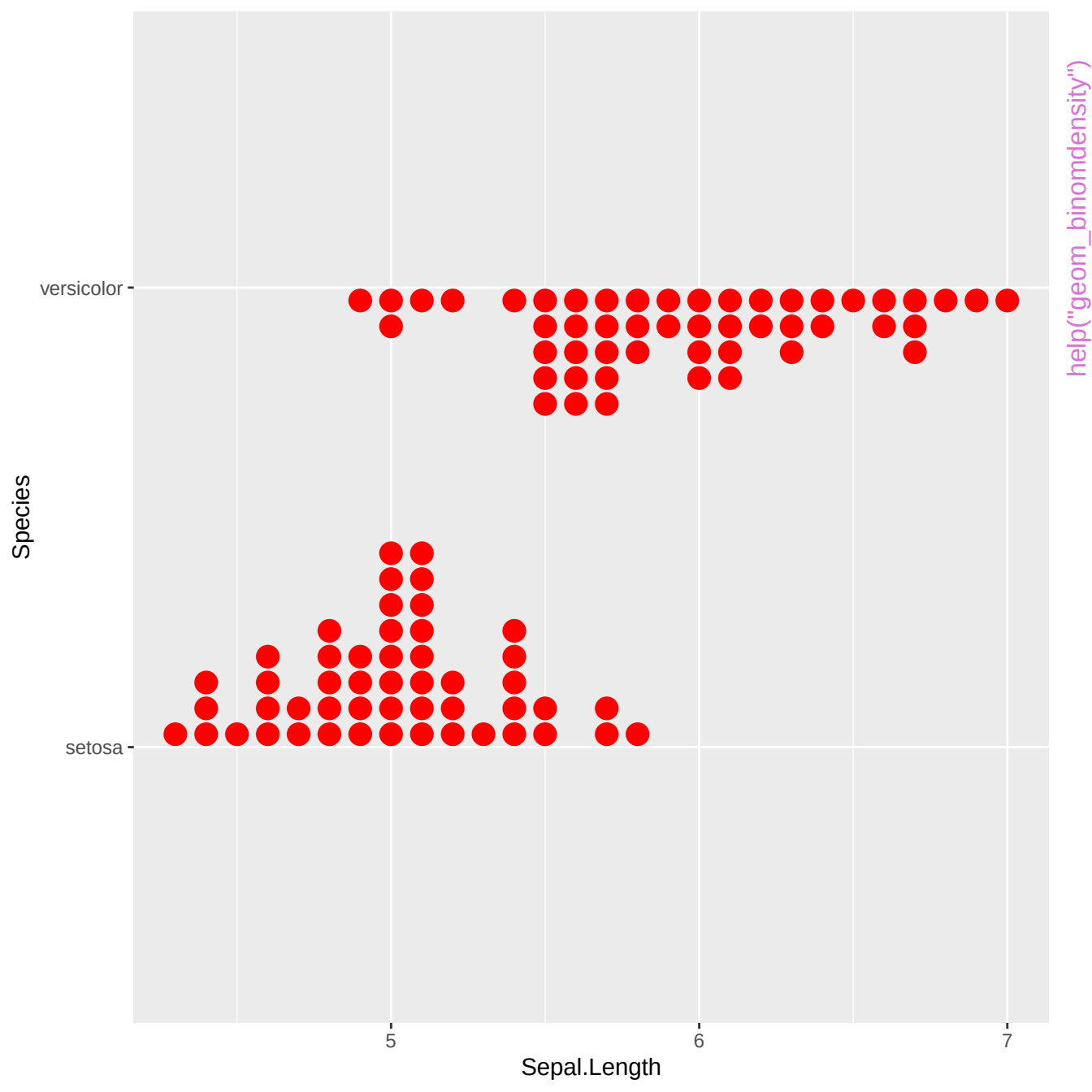
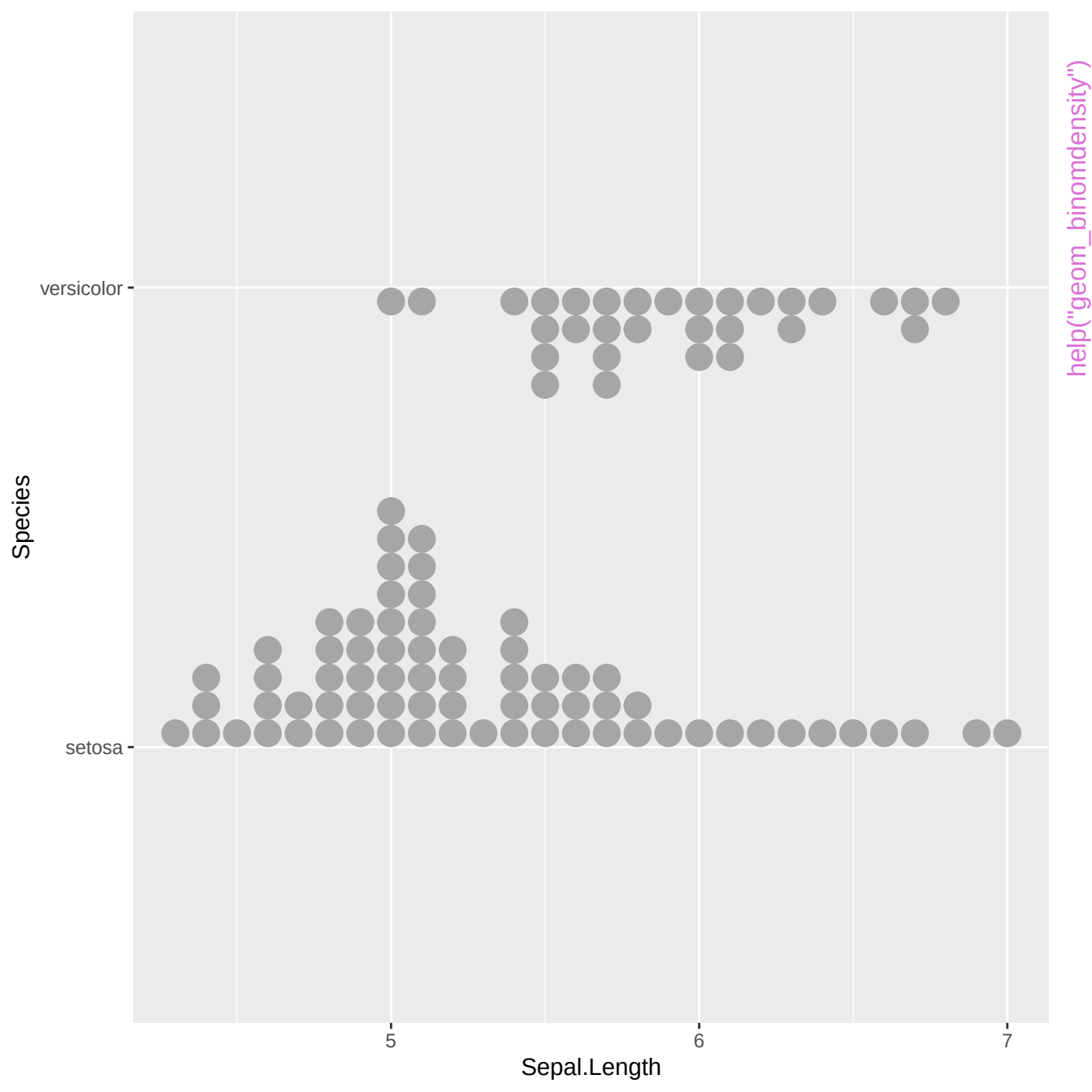
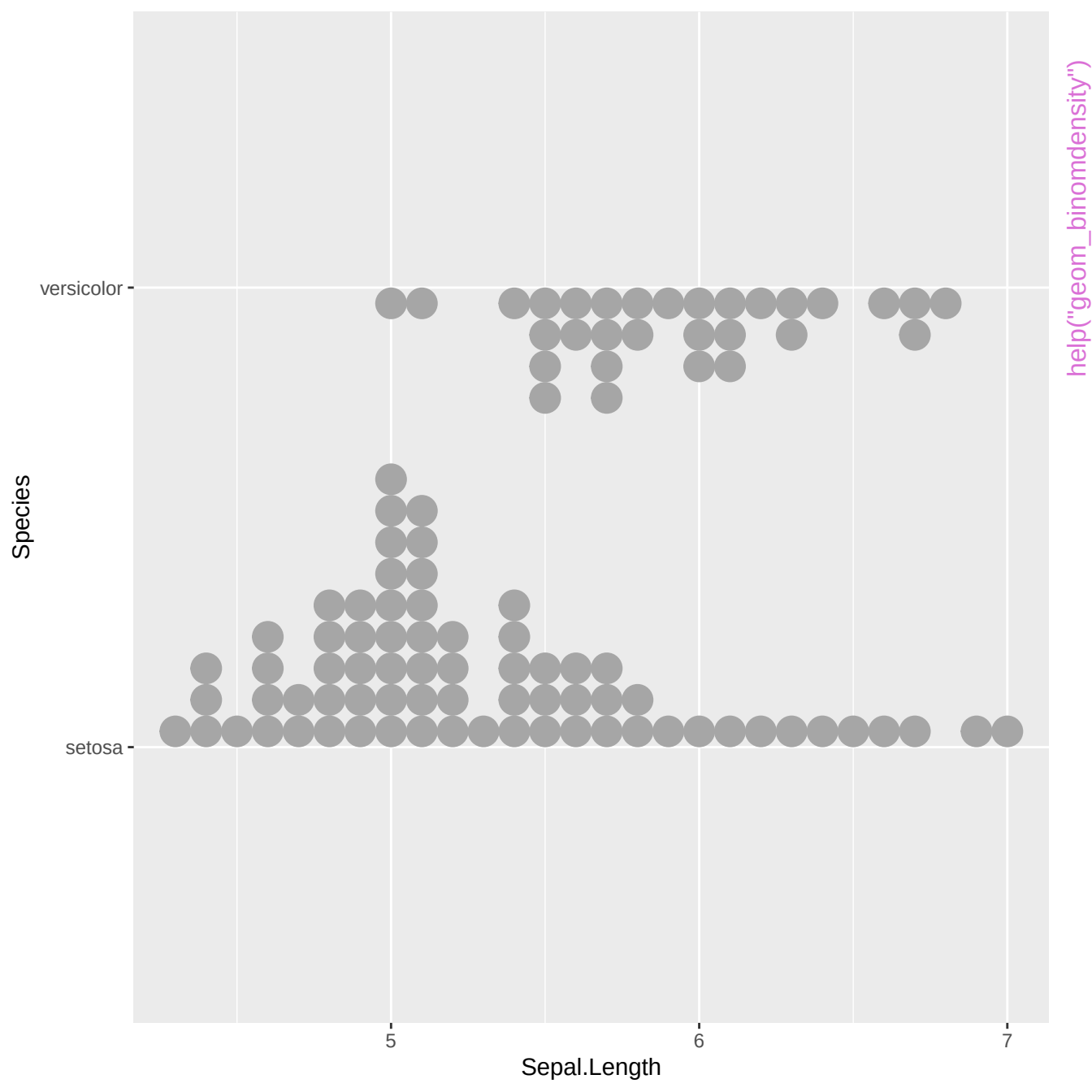
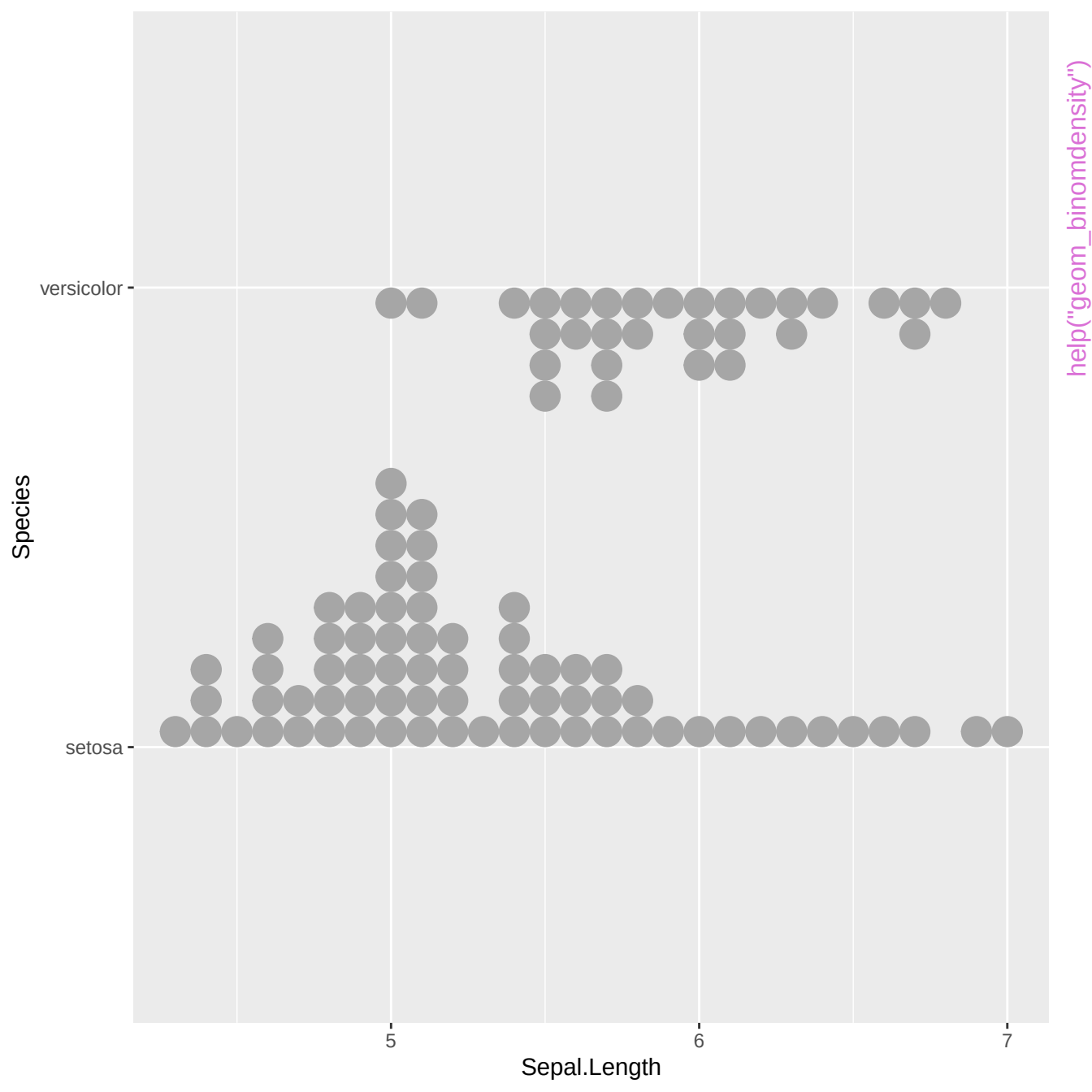
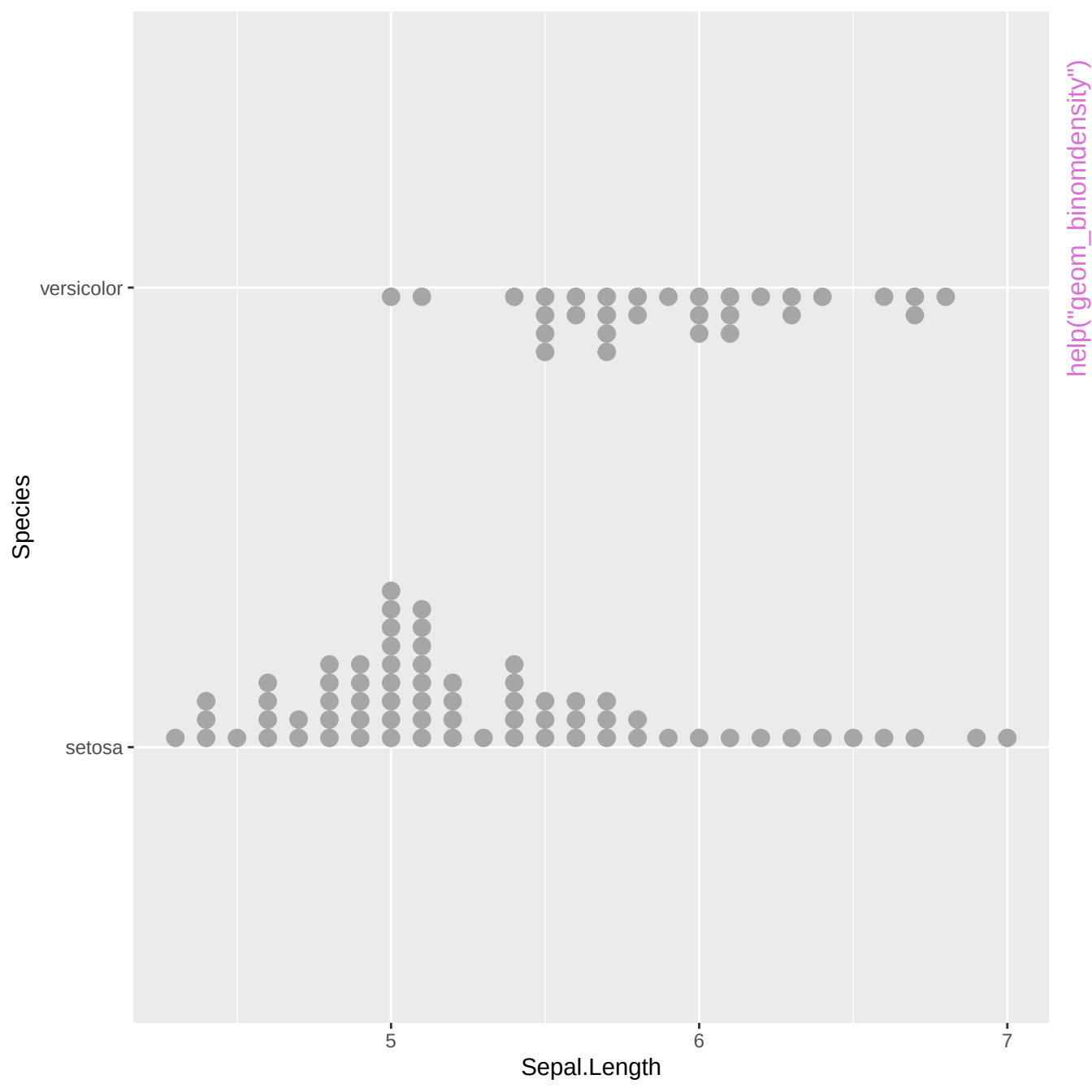
help("coord_radar")

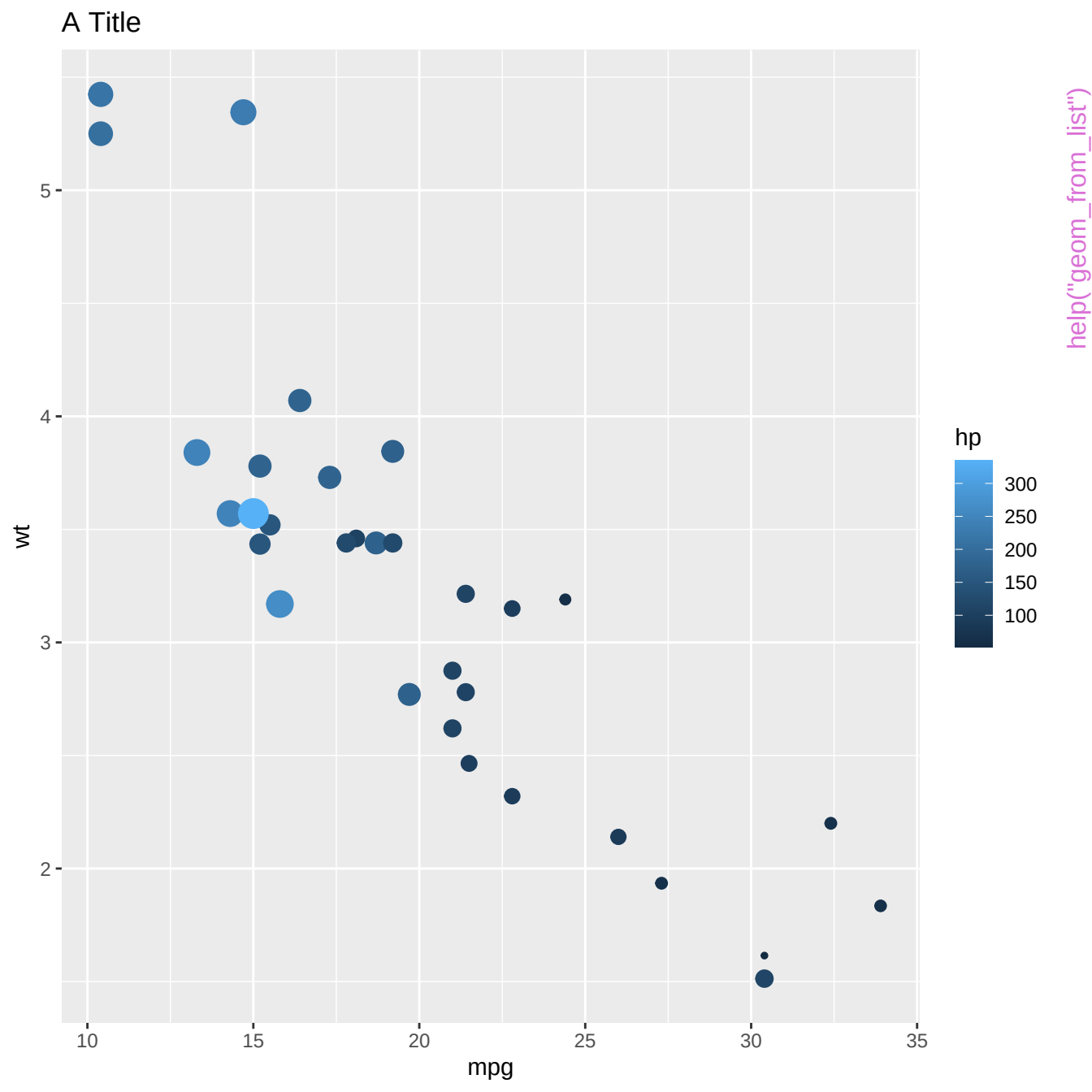

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

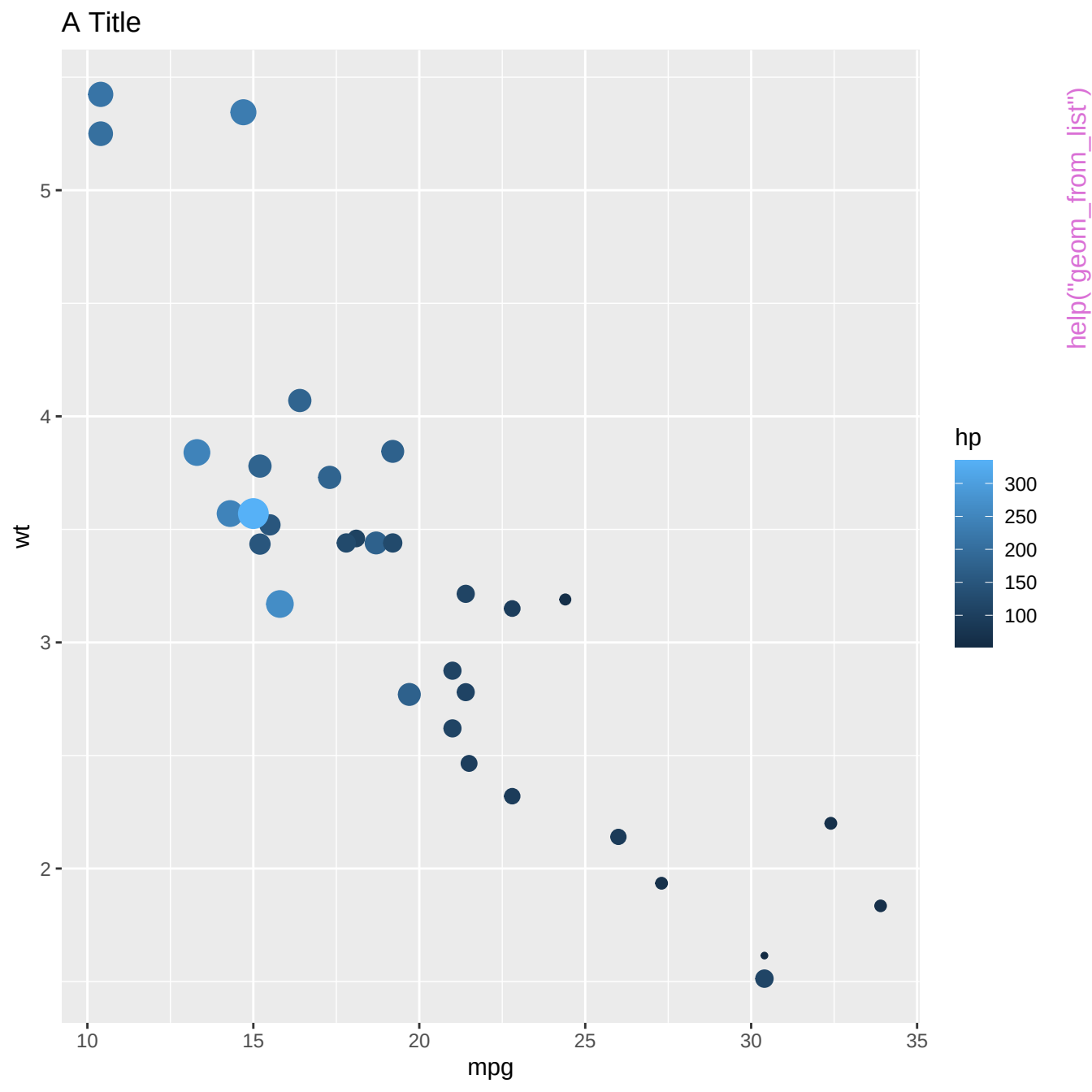

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

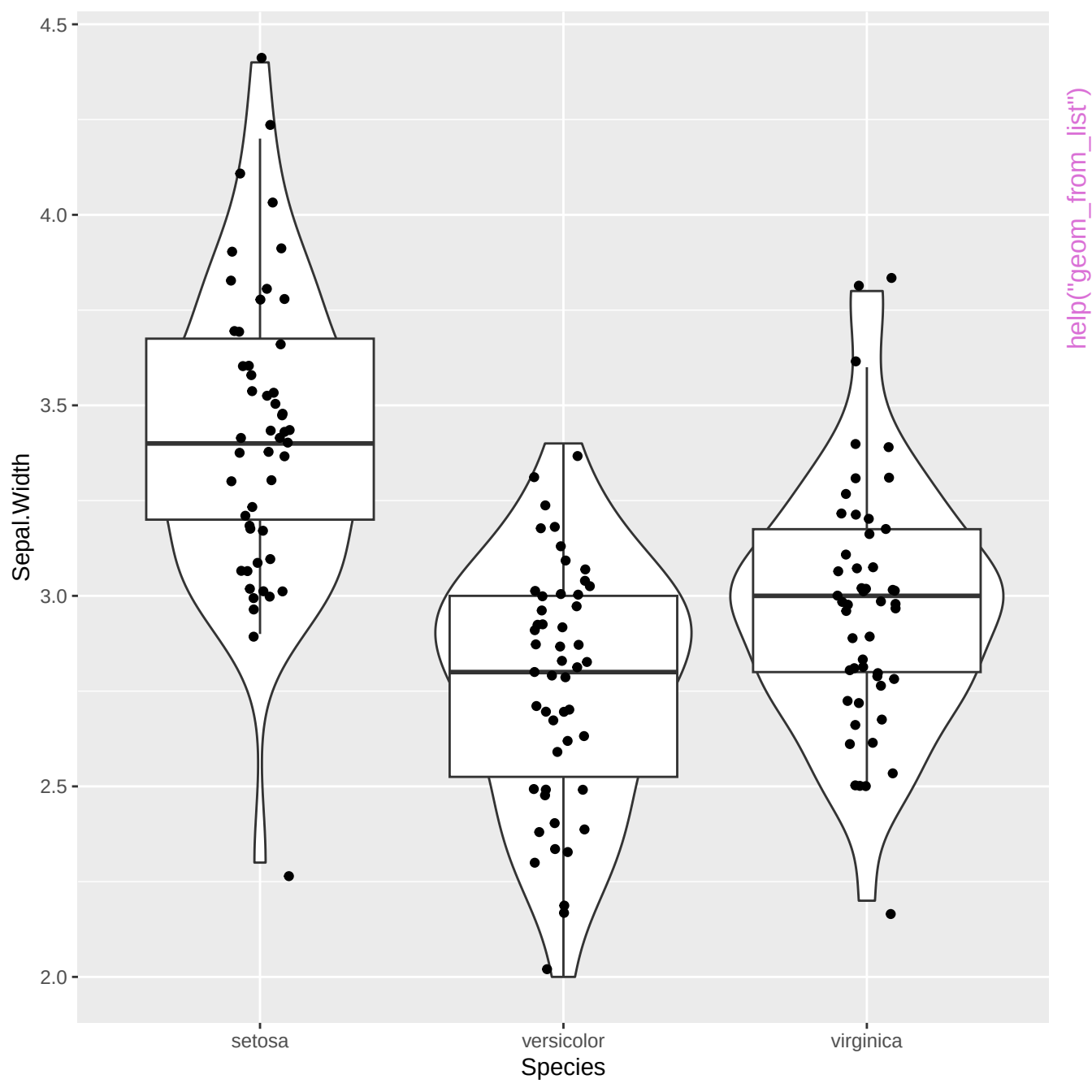

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

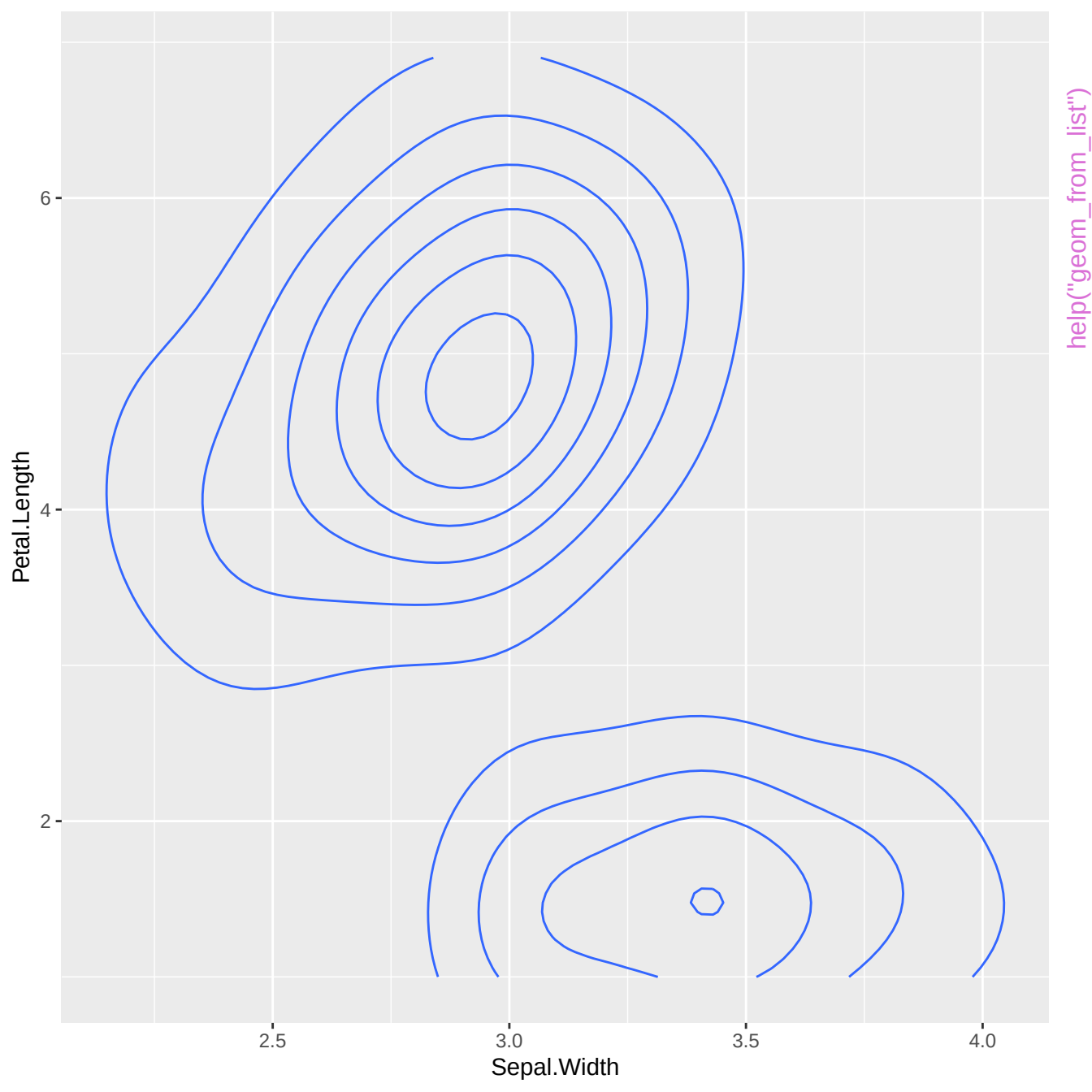

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

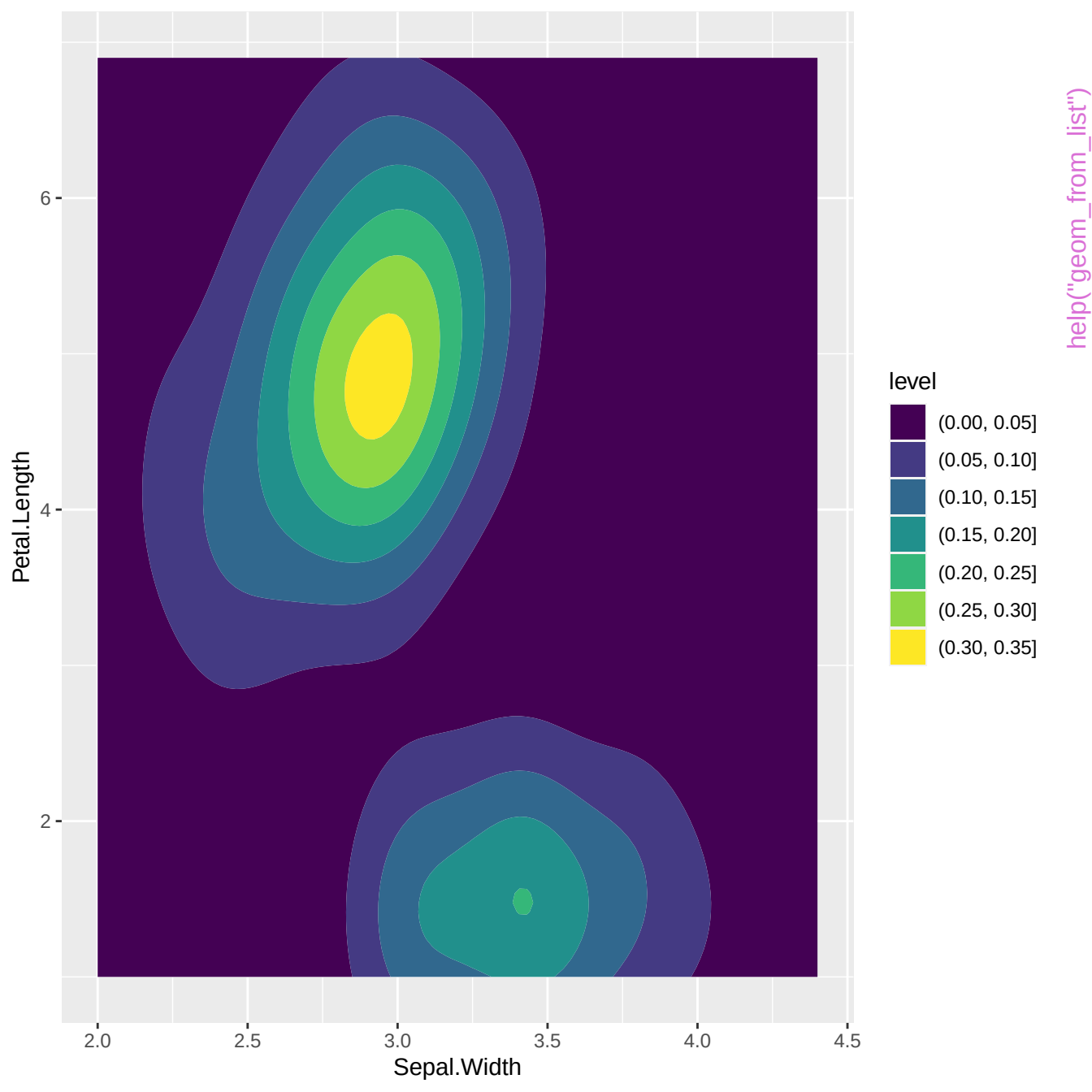

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

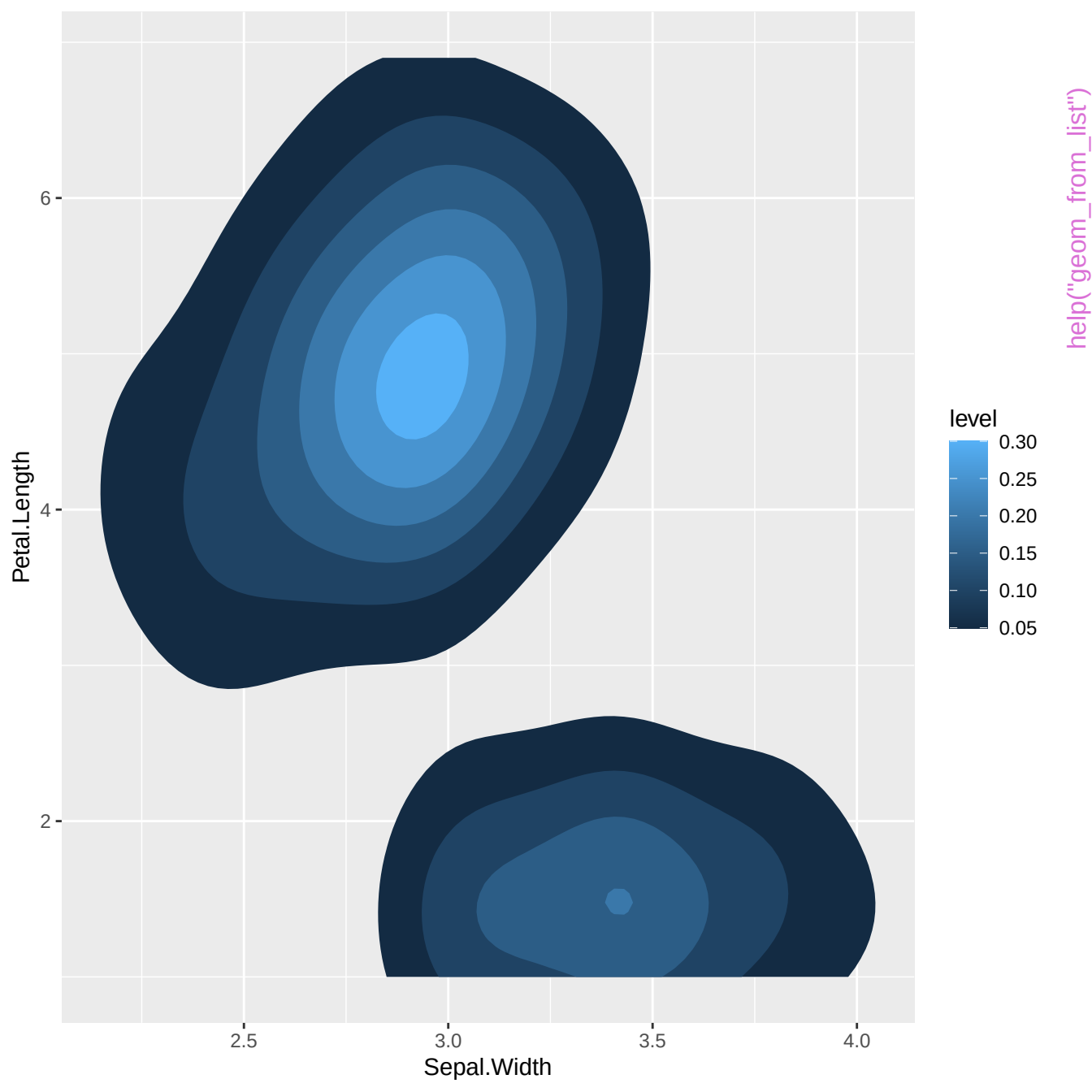

A Title
wt
mpg
hp
300
250
200
150
100
10
15
20
25
30
35
2
3
4
5
help("geom_from_list")

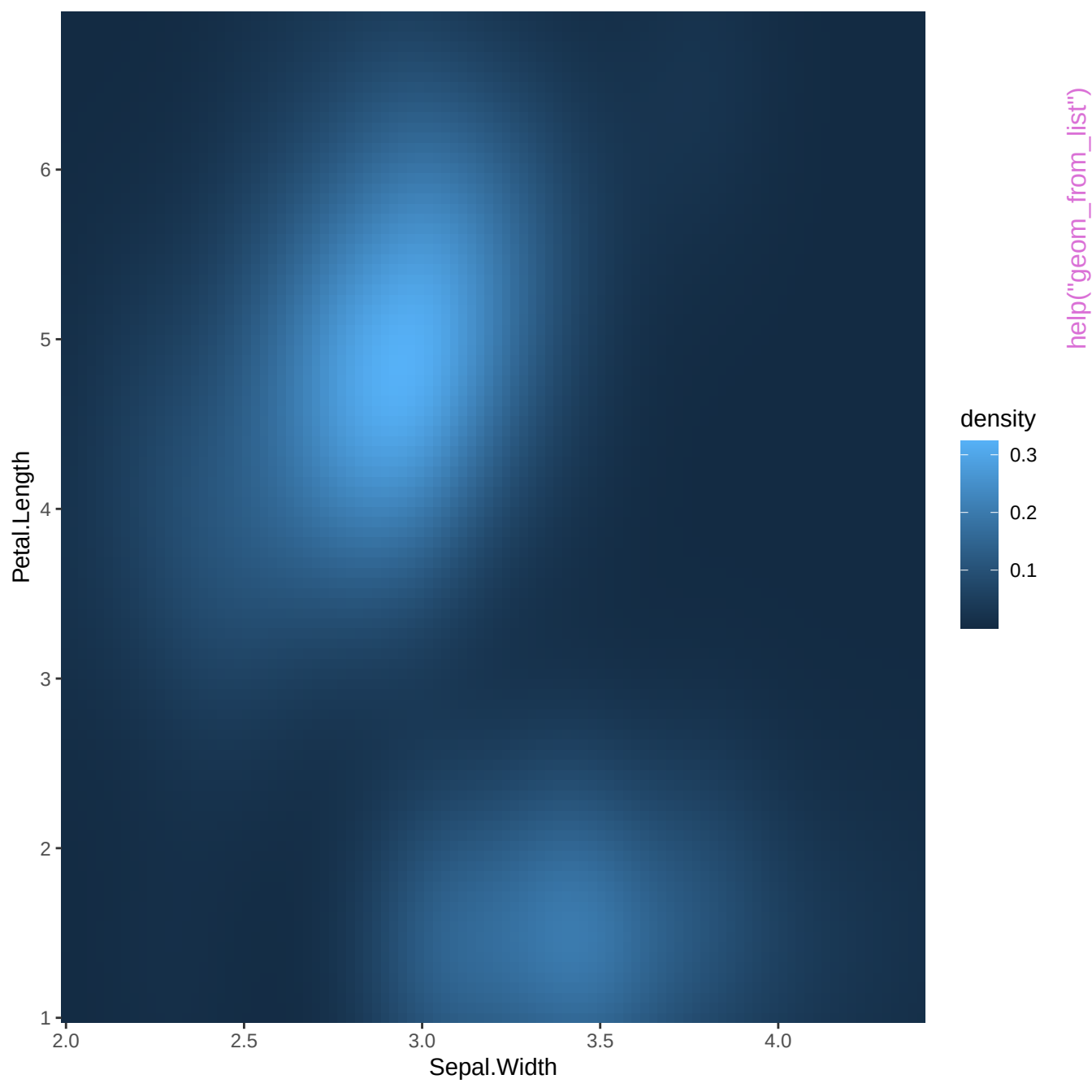

A Title
wt
mpg
hp
300
250
200
150
100
10
15
20
25
30
35
2
3
4
5
help("geom_from_list")

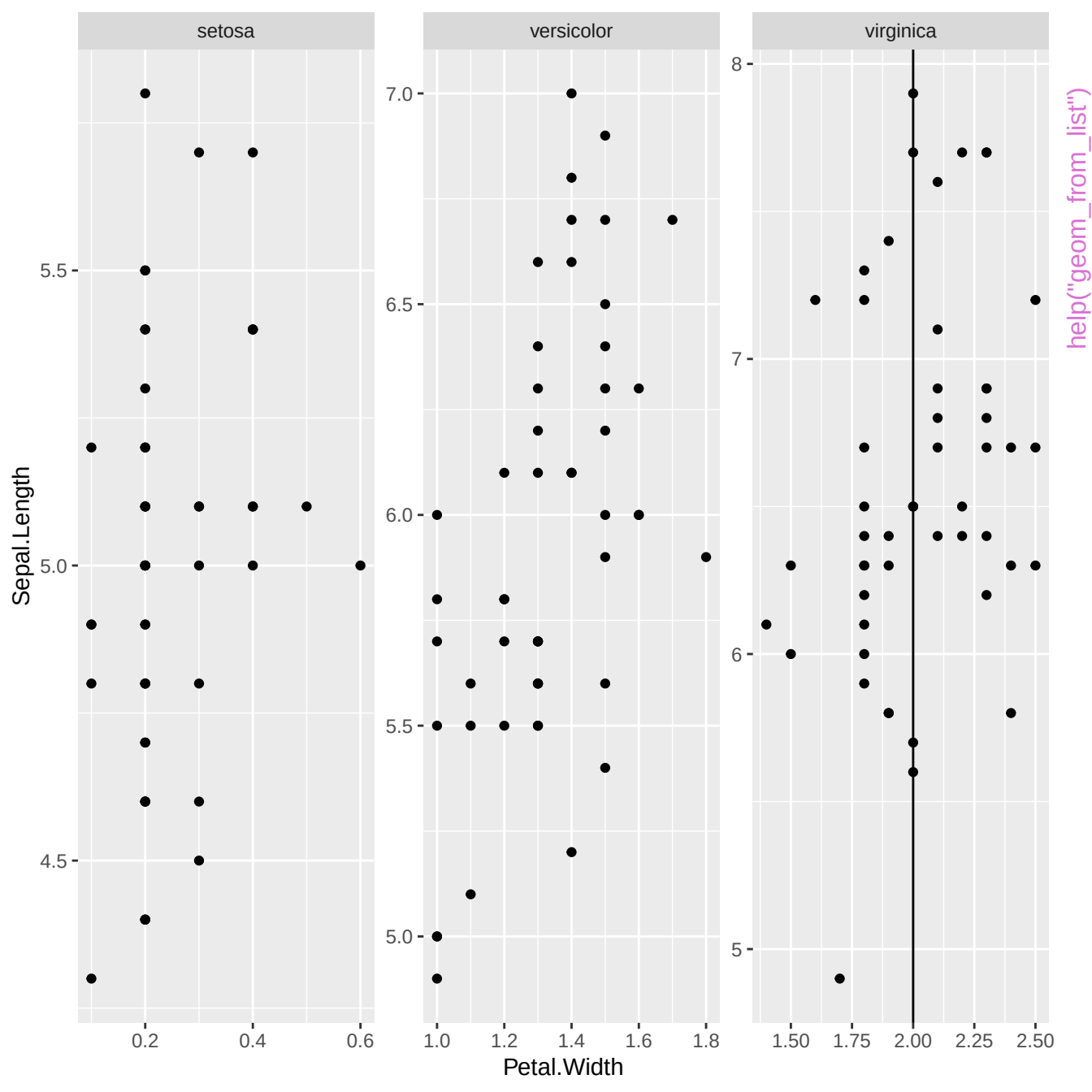

4.5
4.0
3.5
3.0
2.5
2.0
Sepal.Width
setosa
versicolor
virginica
Species
help("geom_from_list")

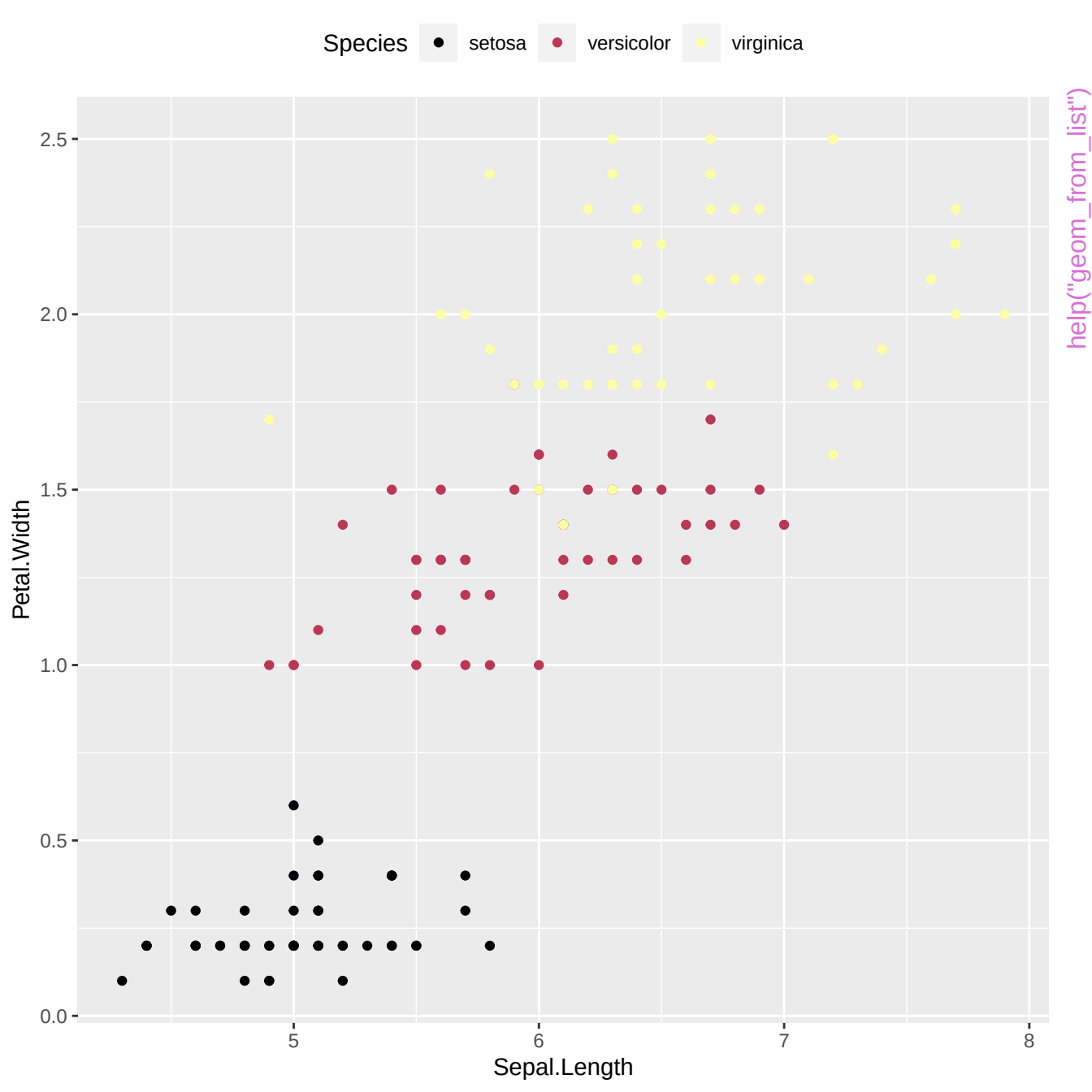

help("geom_from_list")
Petal.Length
6
4
2
2.5
3.0
3.5
4.0
Sepal.Width

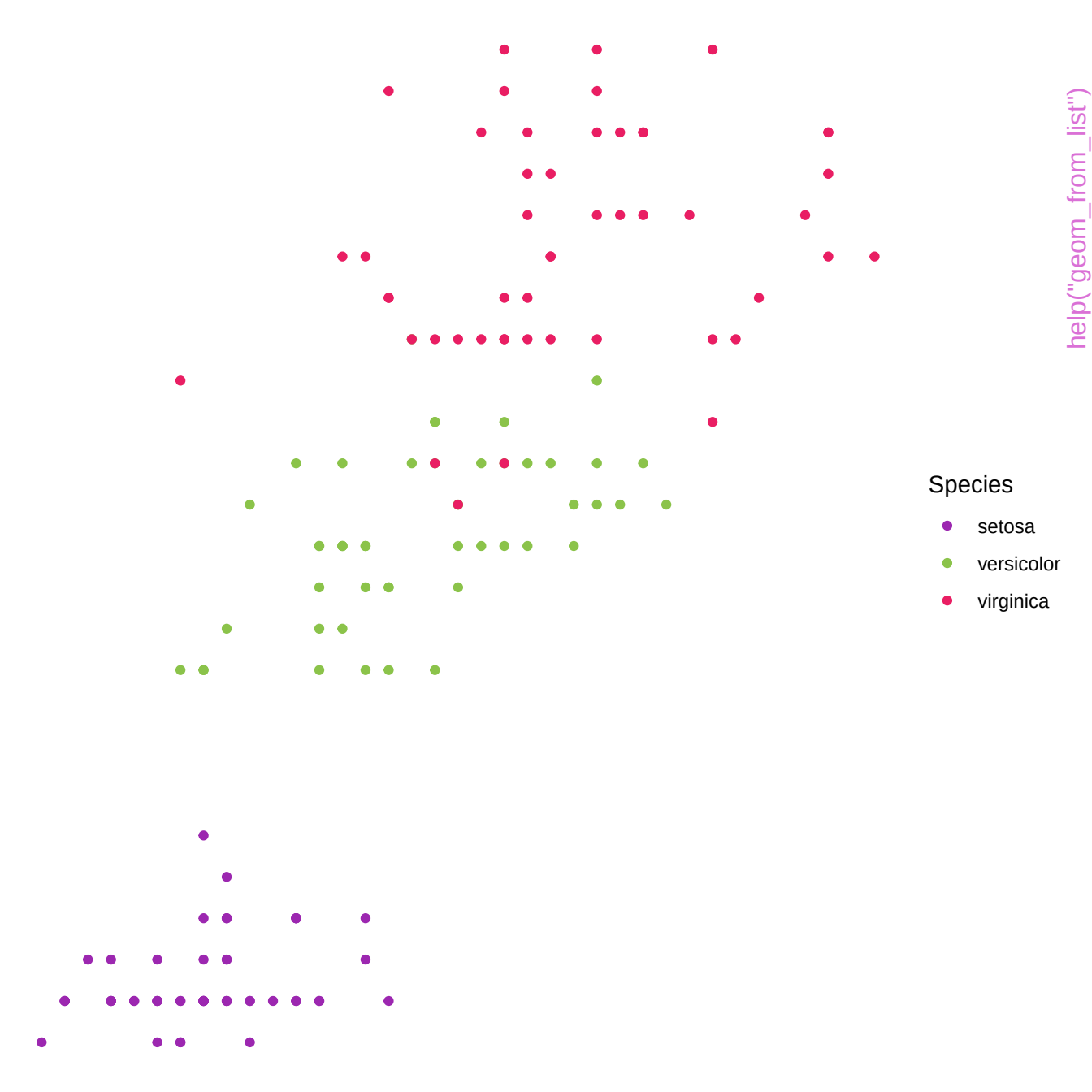

Petal.Length
6
4
2
2.0
2.5
3.0
3.5
4.0
4.5
Sepal.Width
level
(0.00, 0.05]
(0.05, 0.10]
(0.10, 0.15]
(0.15, 0.20]
(0.20, 0.25]
(0.25, 0.30]
(0.30, 0.35]
help("geom_from_list")

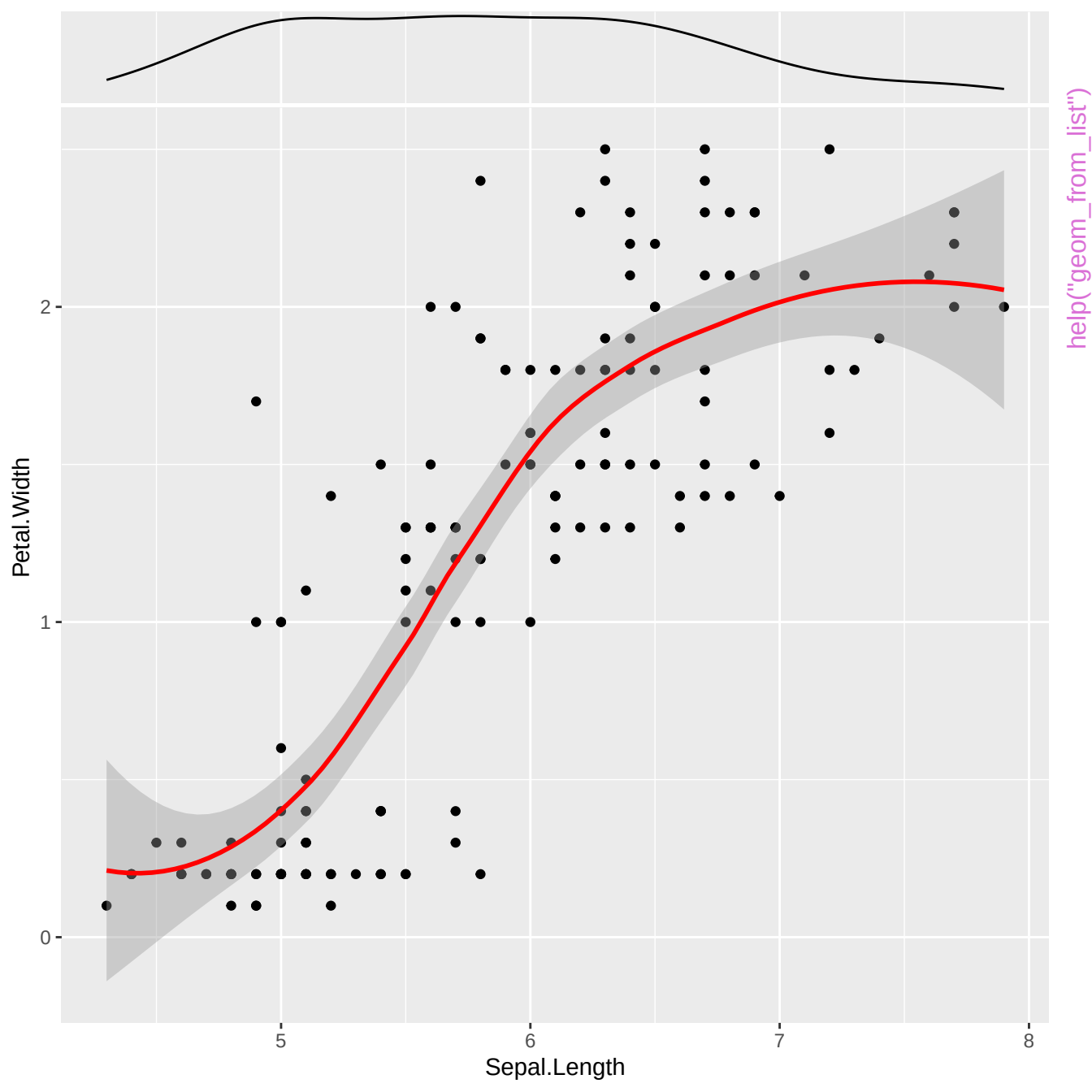

help("geom_from_list")
level
0.30
0.25
0.20
0.15
0.10
0.05
Petal.Length
6
4
2
Sepal.Width
2.5
3.0
3.5
4.0

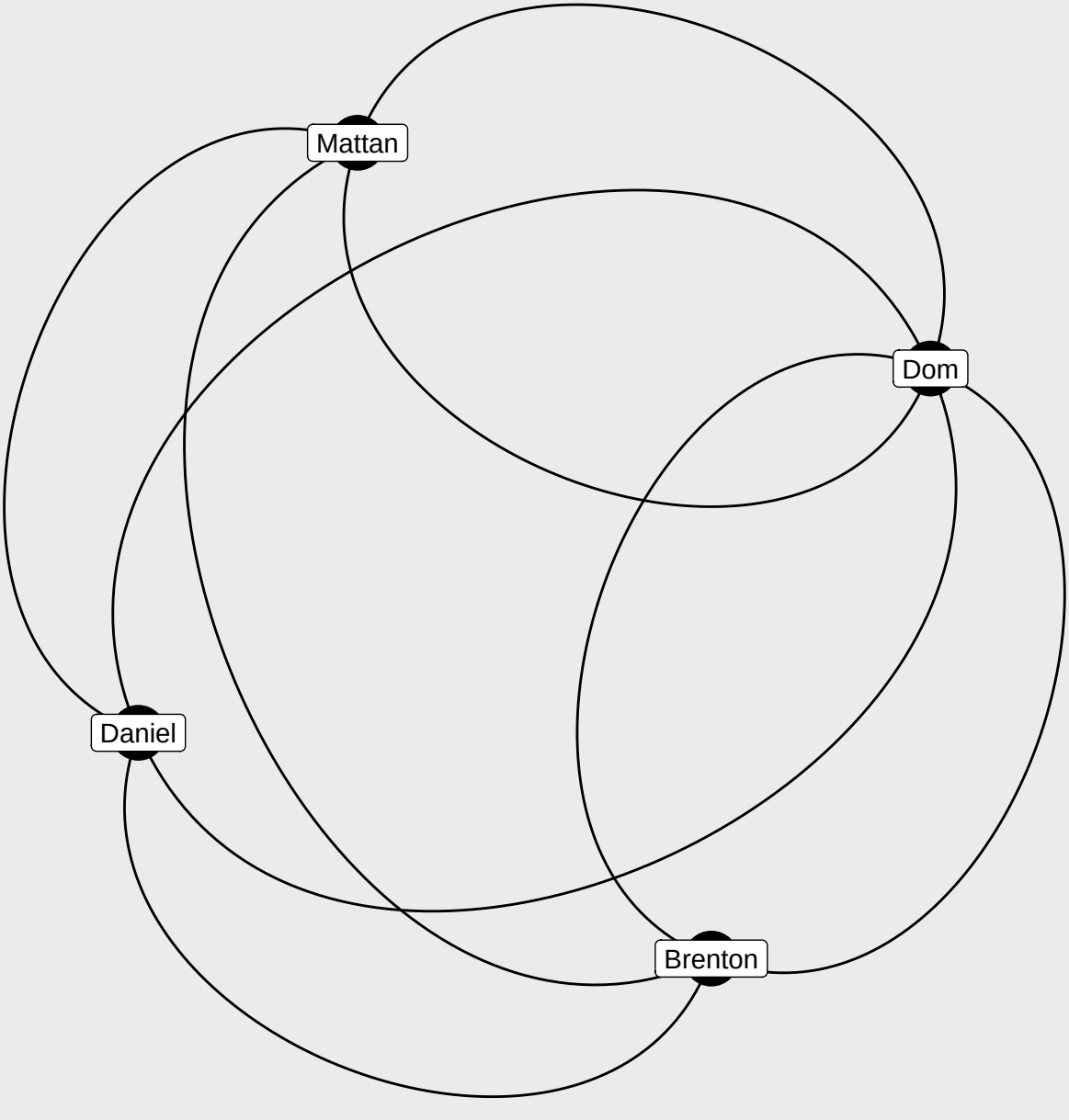

help("geom_from_list")
density
0.3
0.2
0.1
Petal.Length
6
5
4
3
2
1
2.0
2.5
3.0
3.5
4.0
Sepal.Width


setosa
versicolor
virginica
Sepal.Length
Petal.Width
help("geom_from_list")
5.5
5.0
4.5
7.0
6.5
6.0
5.5
5.0
8
7
6
5
0.2
0.4
0.6
1.0
1.2
1.4
1.6
1.8
1.50
1.75
2.00
2.25
2.50

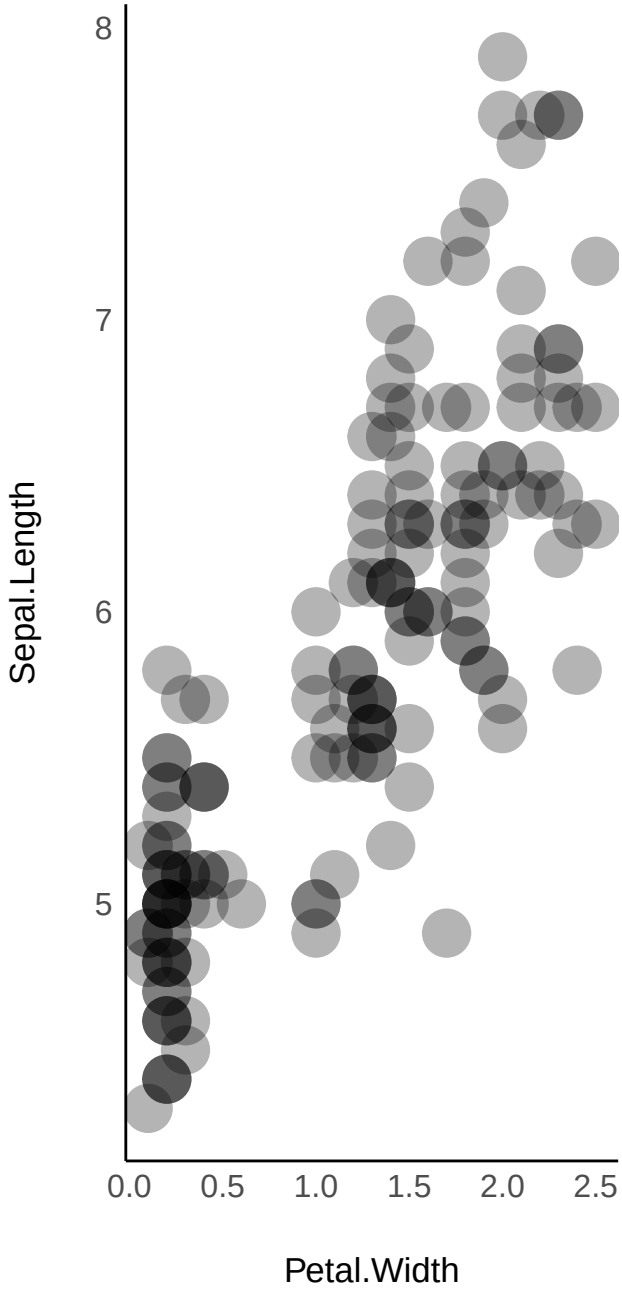

Species
setosa
versicolor
virginica
help("geom_from_list")
Petal.Width
Sepal.Length
0.0
0.5
1.0
1.5
2.0
2.5
5
6
7
8

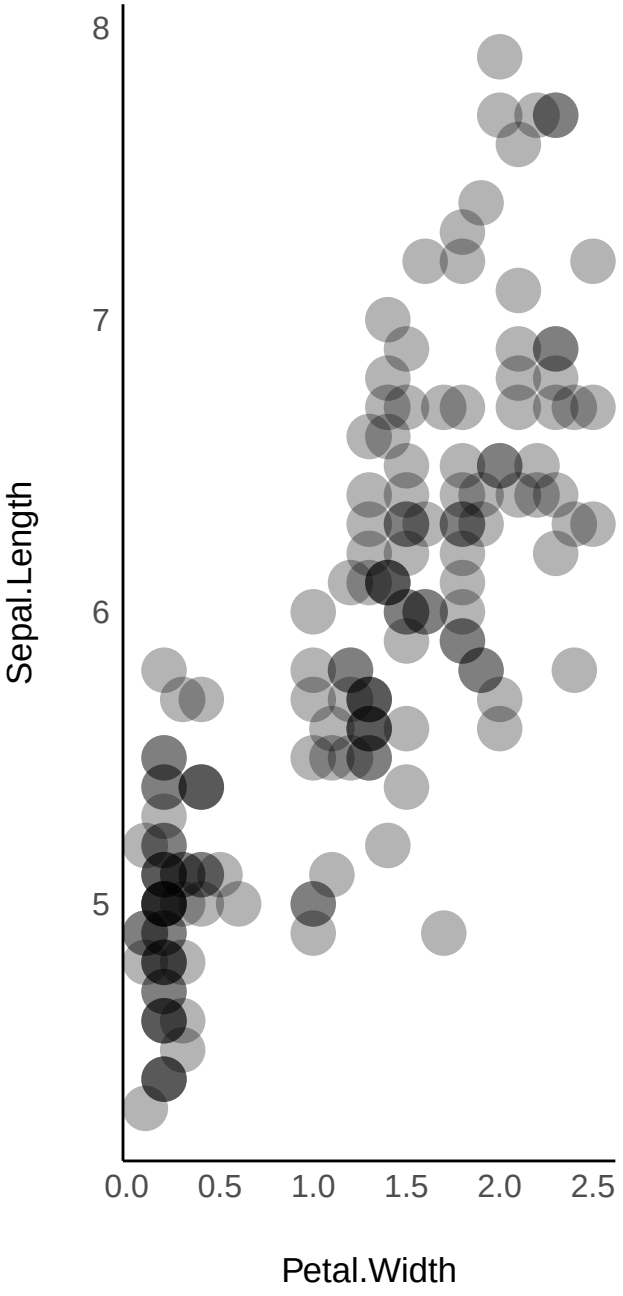

help("geom_from_list")
Species
setosa
versicolor
virginica


help("geom_from_list")
Petal.Width
0
1
2
5
6
7
8
Sepal.Length

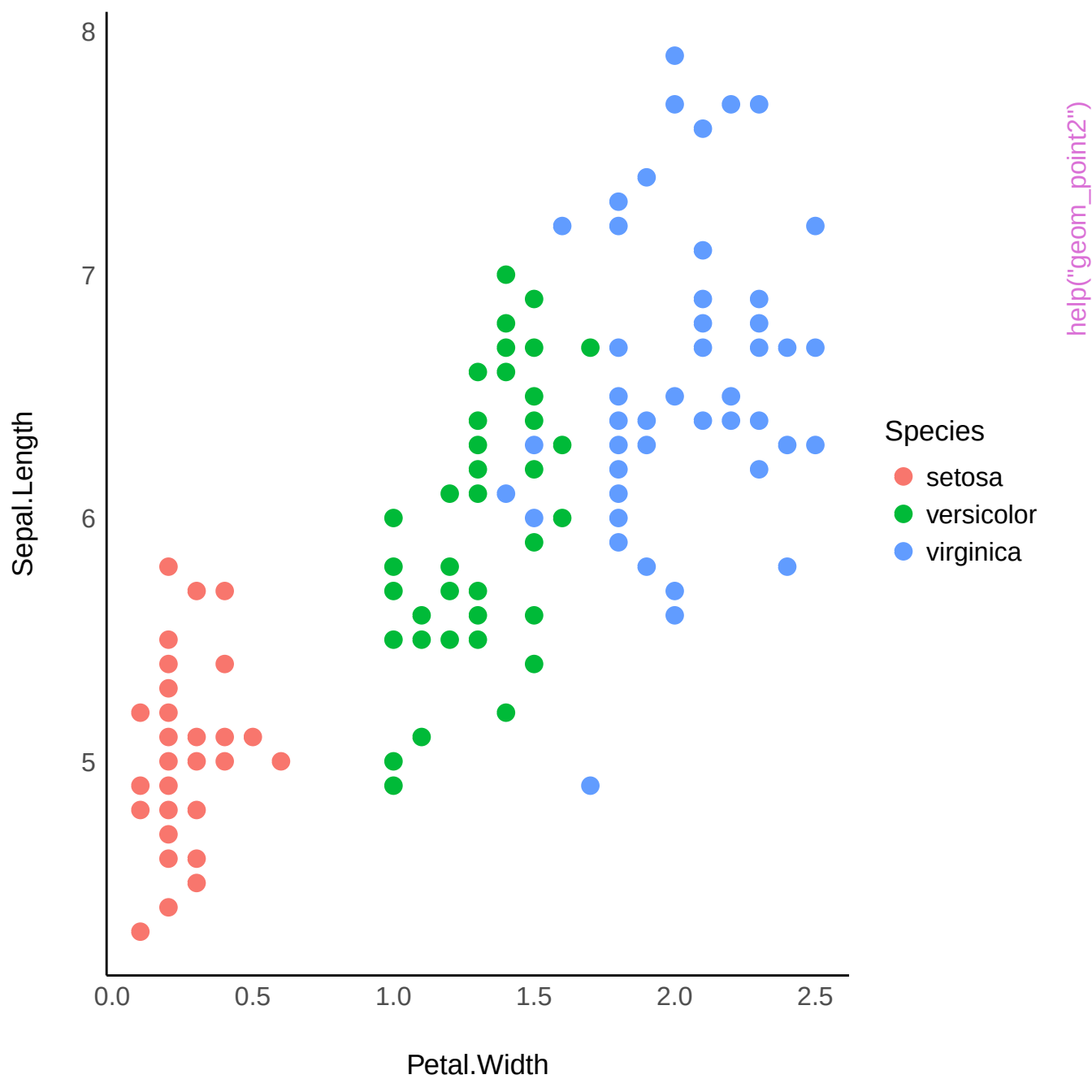


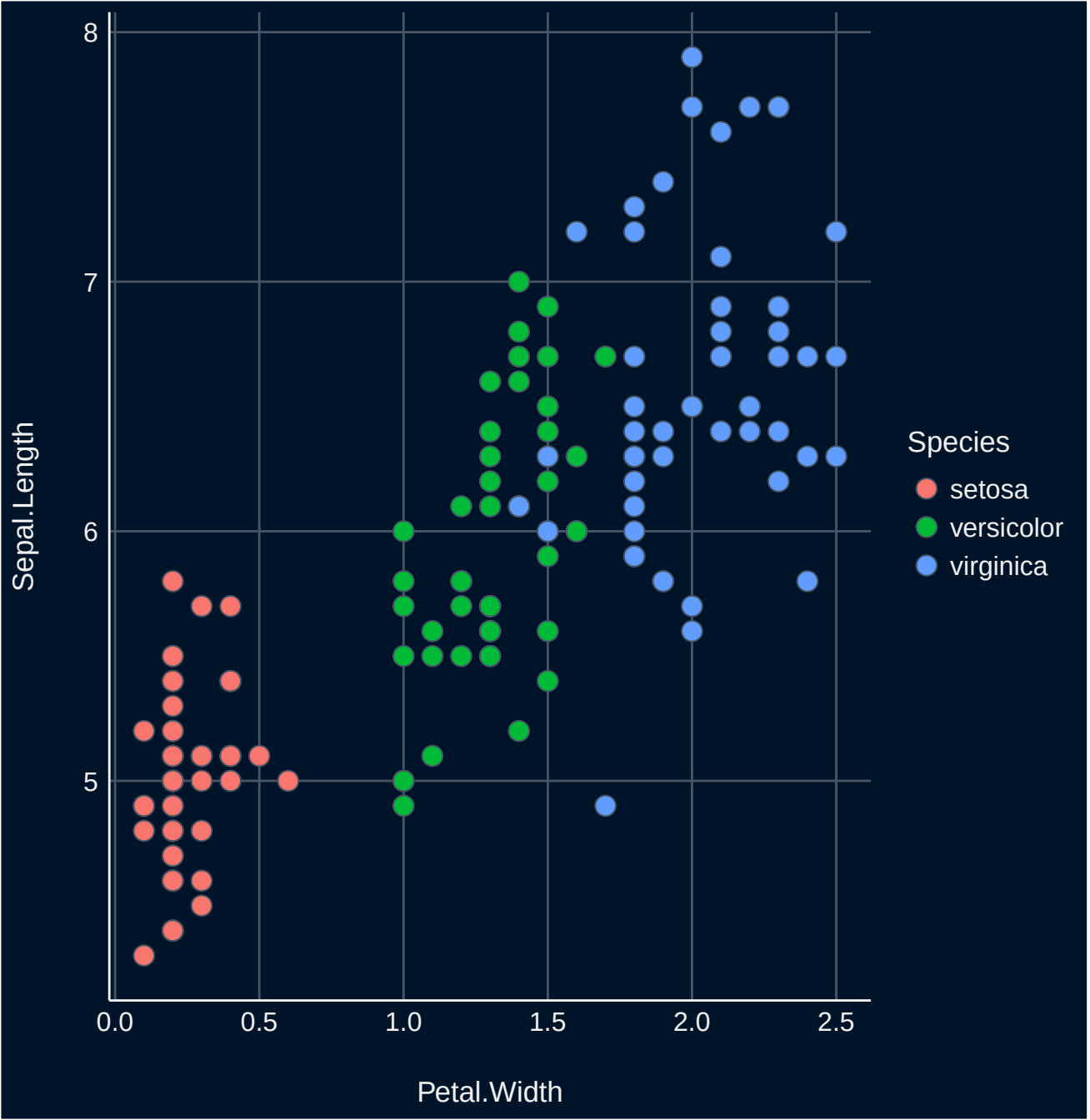
help("geom_from_list")

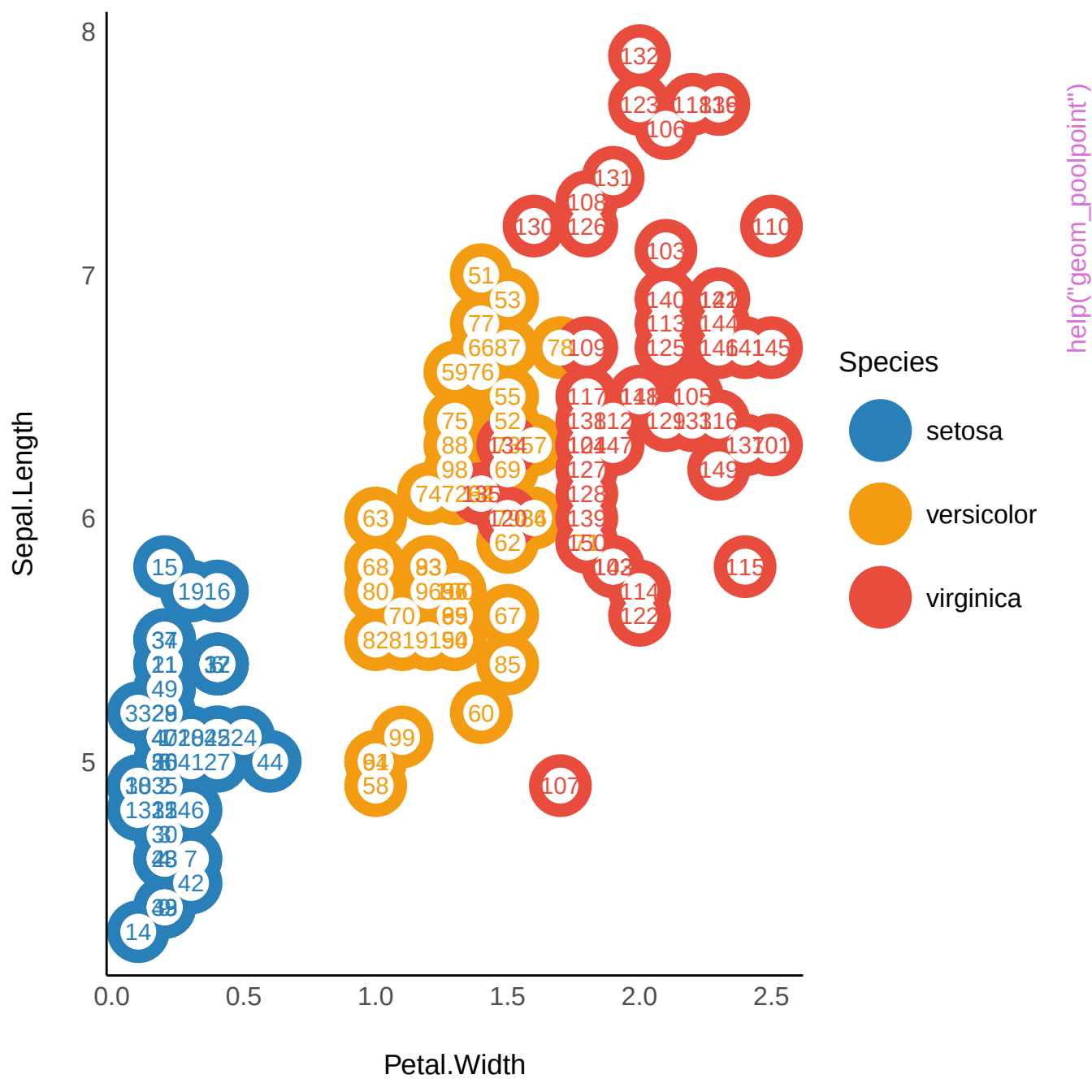


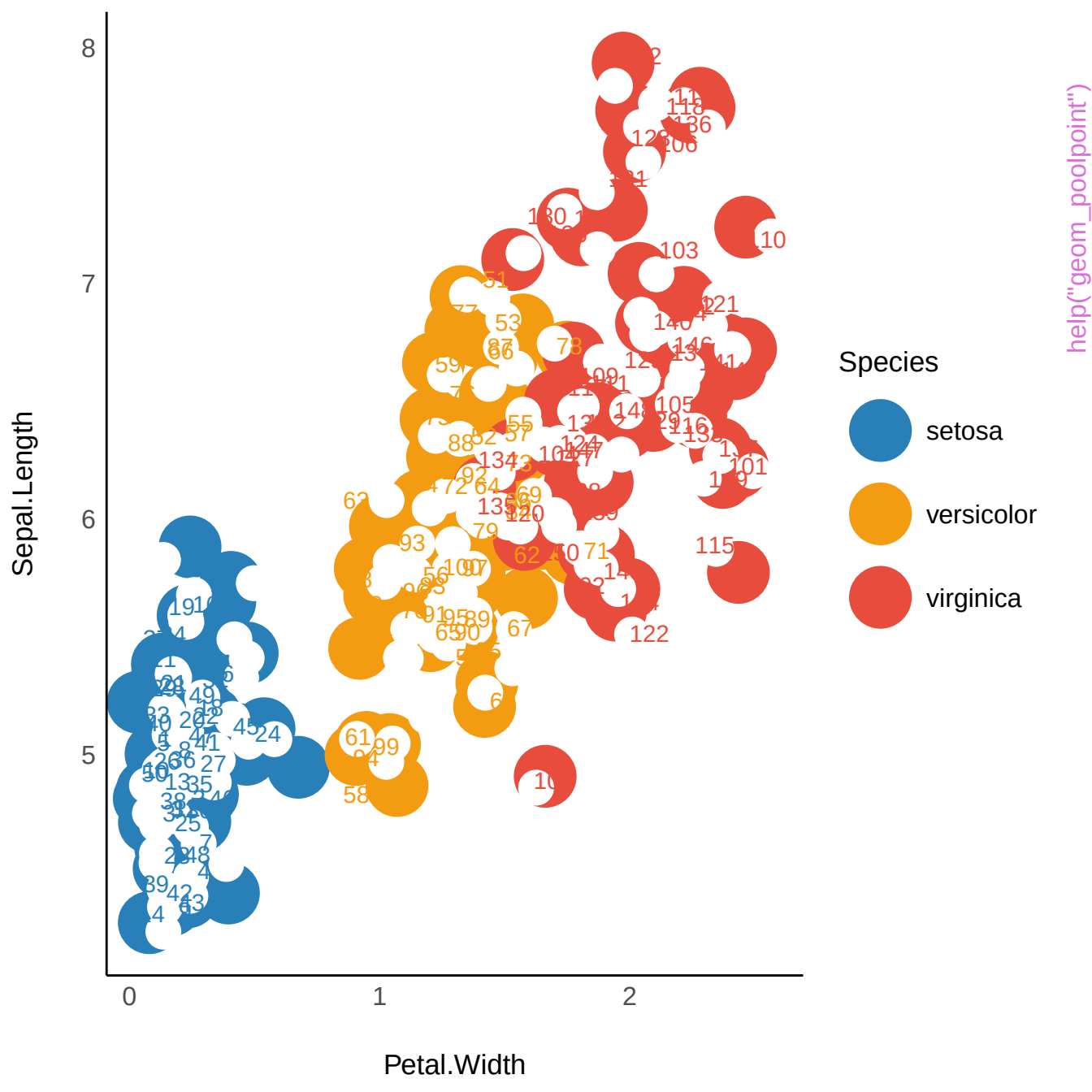


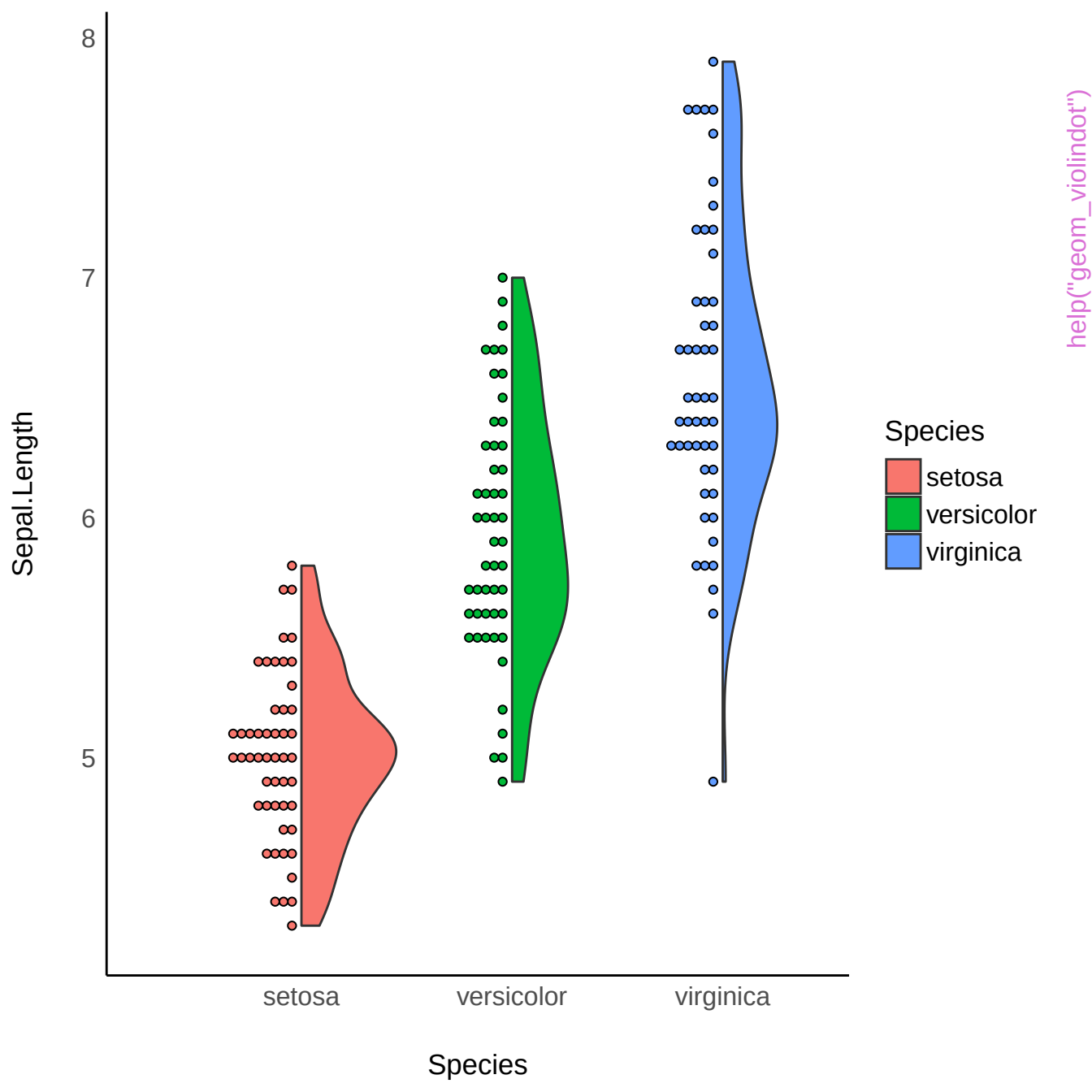
help("geom_point2")

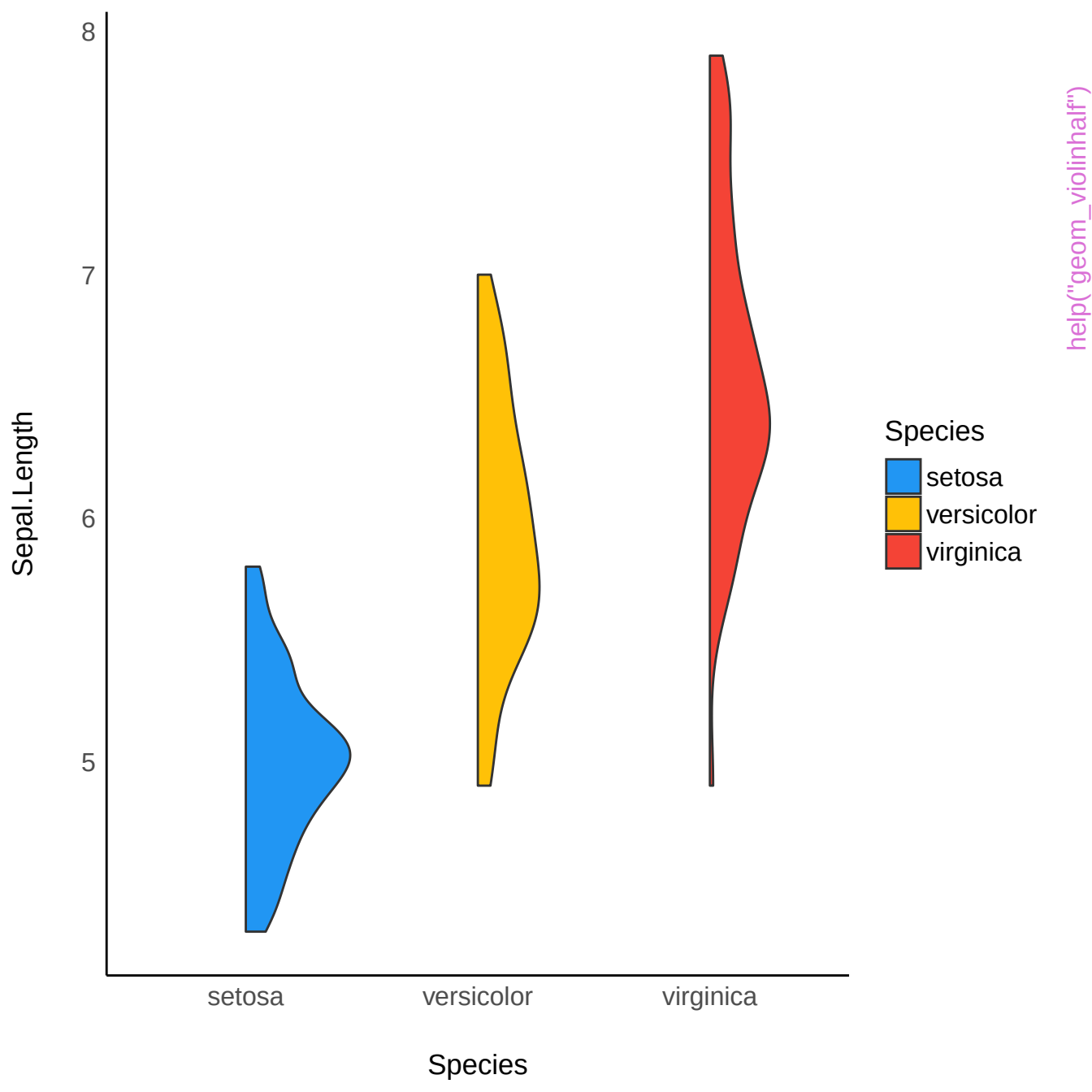

8
7
6
5
Sepal.Length
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica
help("geom_point2")

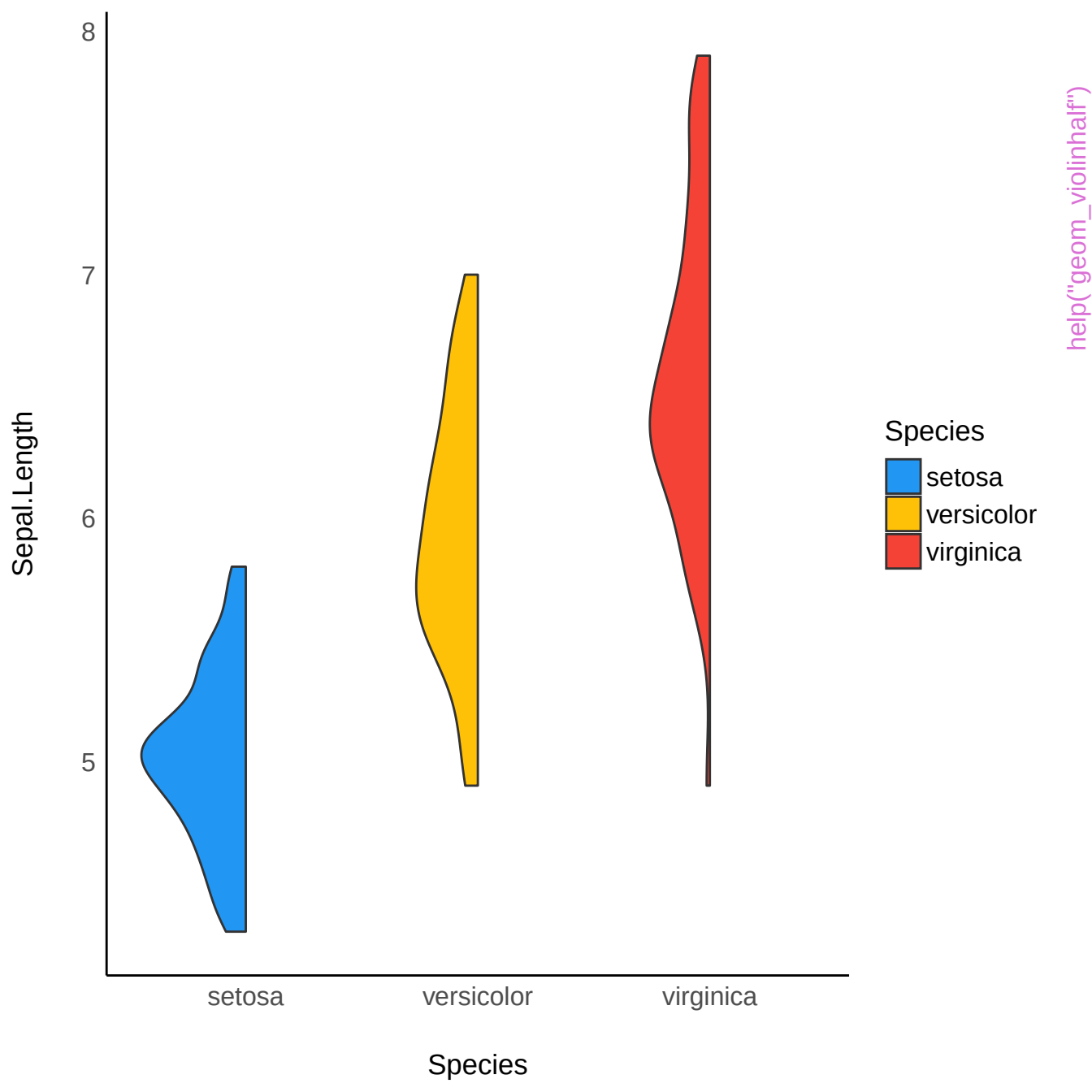

8
7
6
5
Sepal.Length
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica
help("geom_point2")

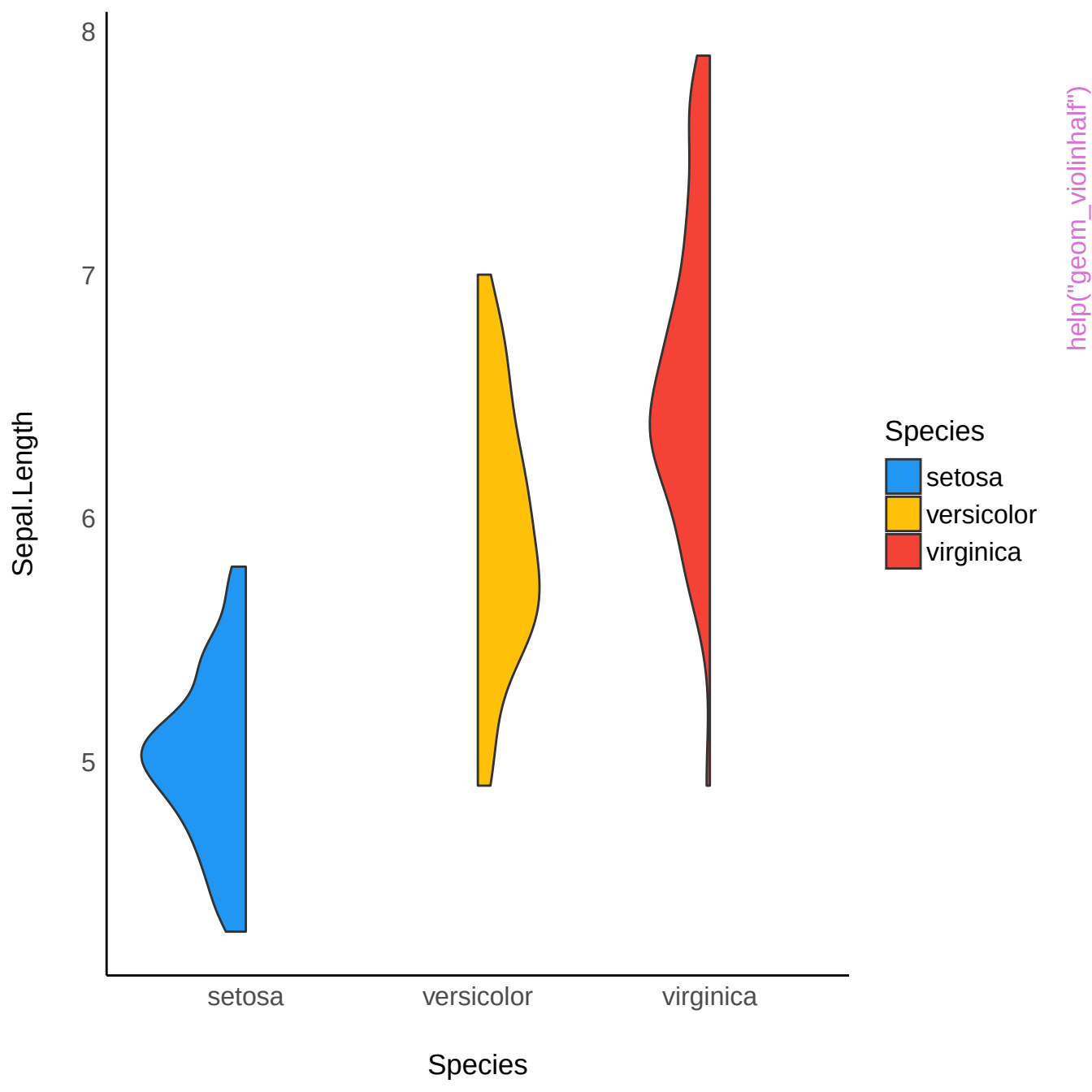

Sepal.Length
Petal.Width
8
7
6
5
0.0
0.5
1.0
1.5
2.0
2.5
Species
setosa
versicolor
virginica
help("geom_poolpoint")

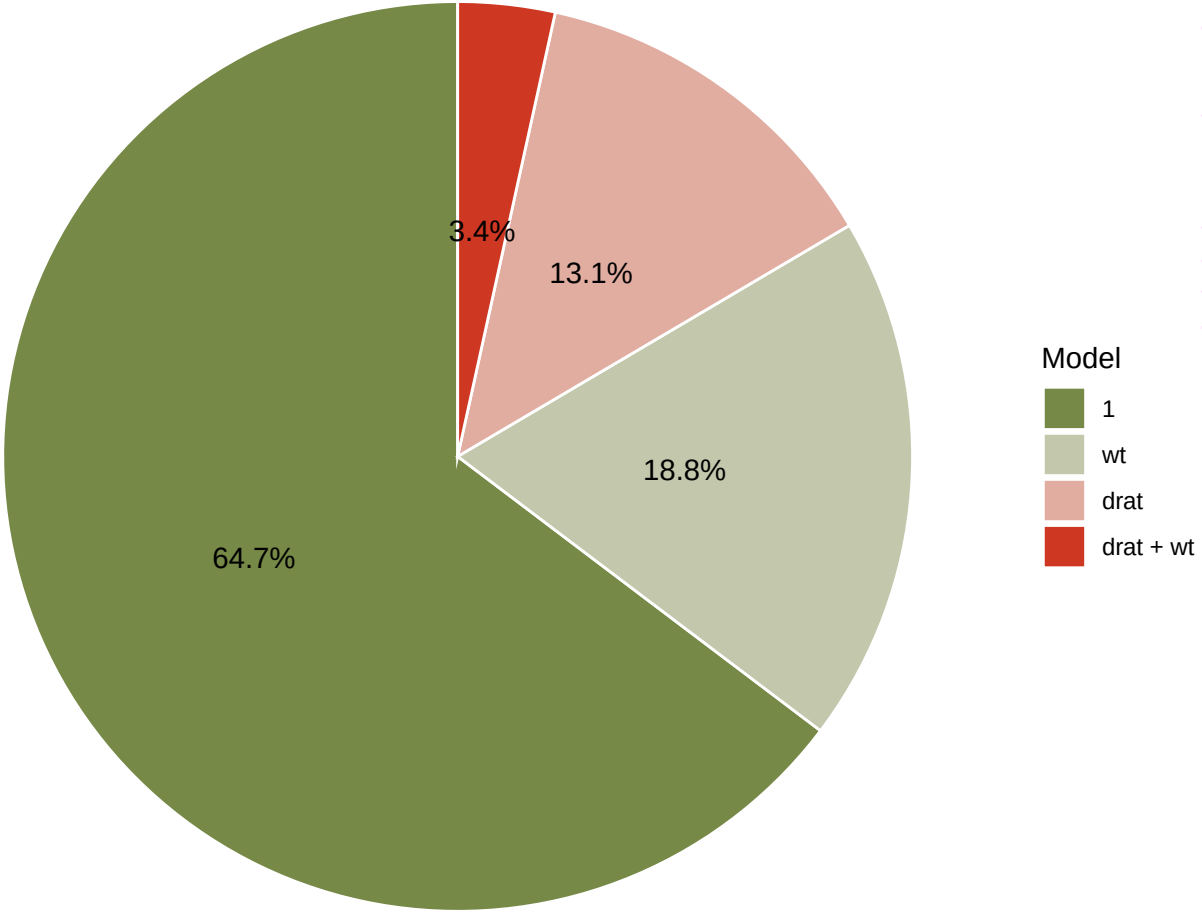

Sepal.Length
Petal.Width
8
7
6
5
0
1
2
Species
setosa
versicolor
virginica
help("geom_poolpoint")


8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("geom_violindot")

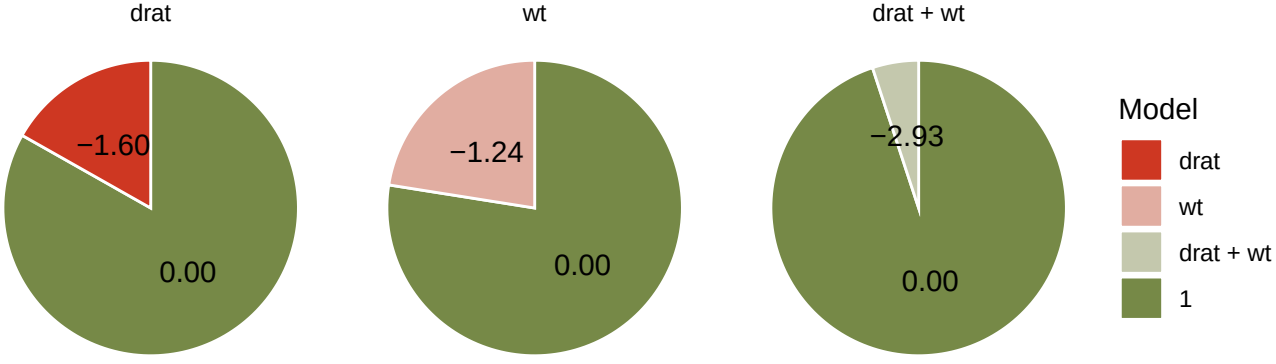

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("geom_violinhalf")


8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("geom_violinhalf")

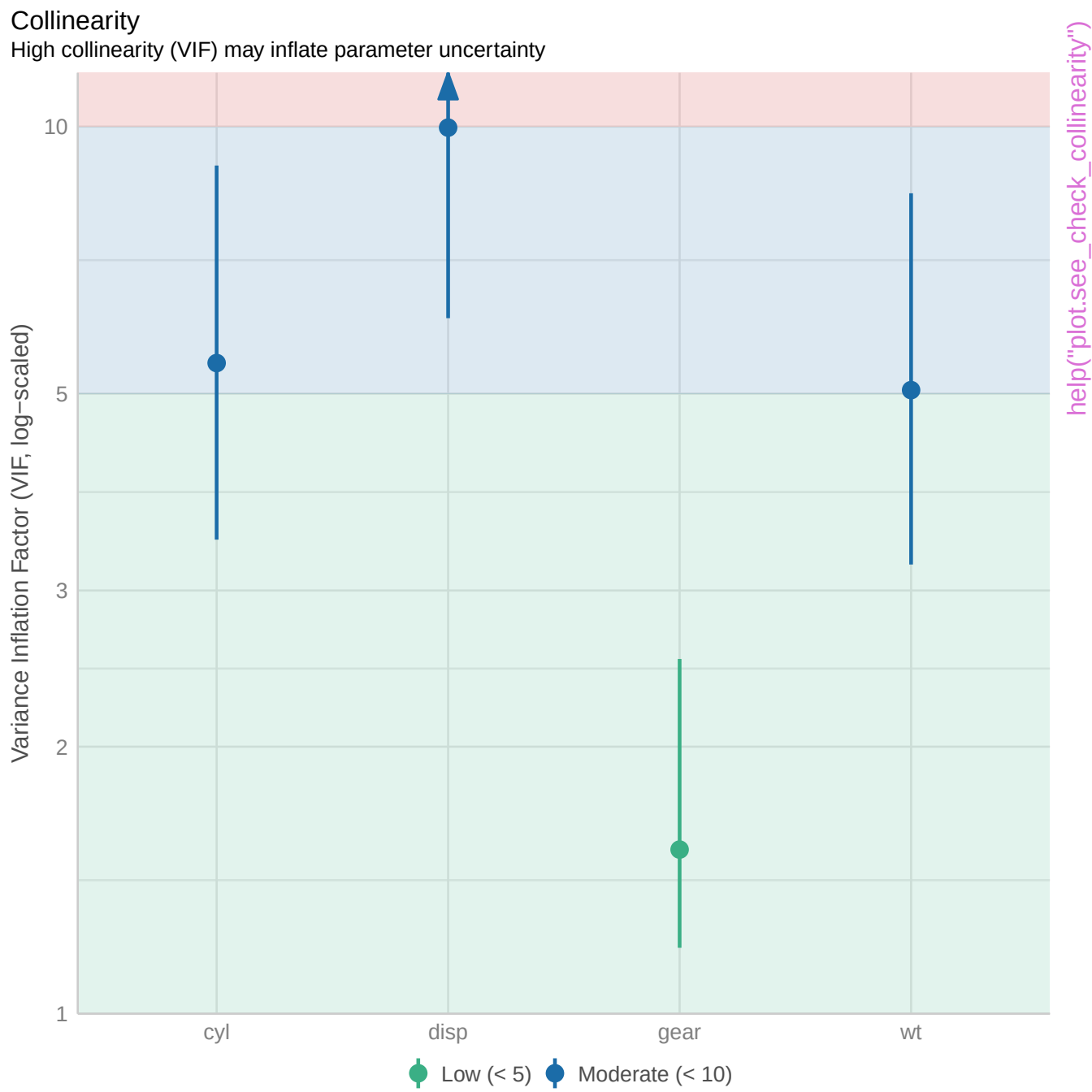

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("geom_violinhalf")

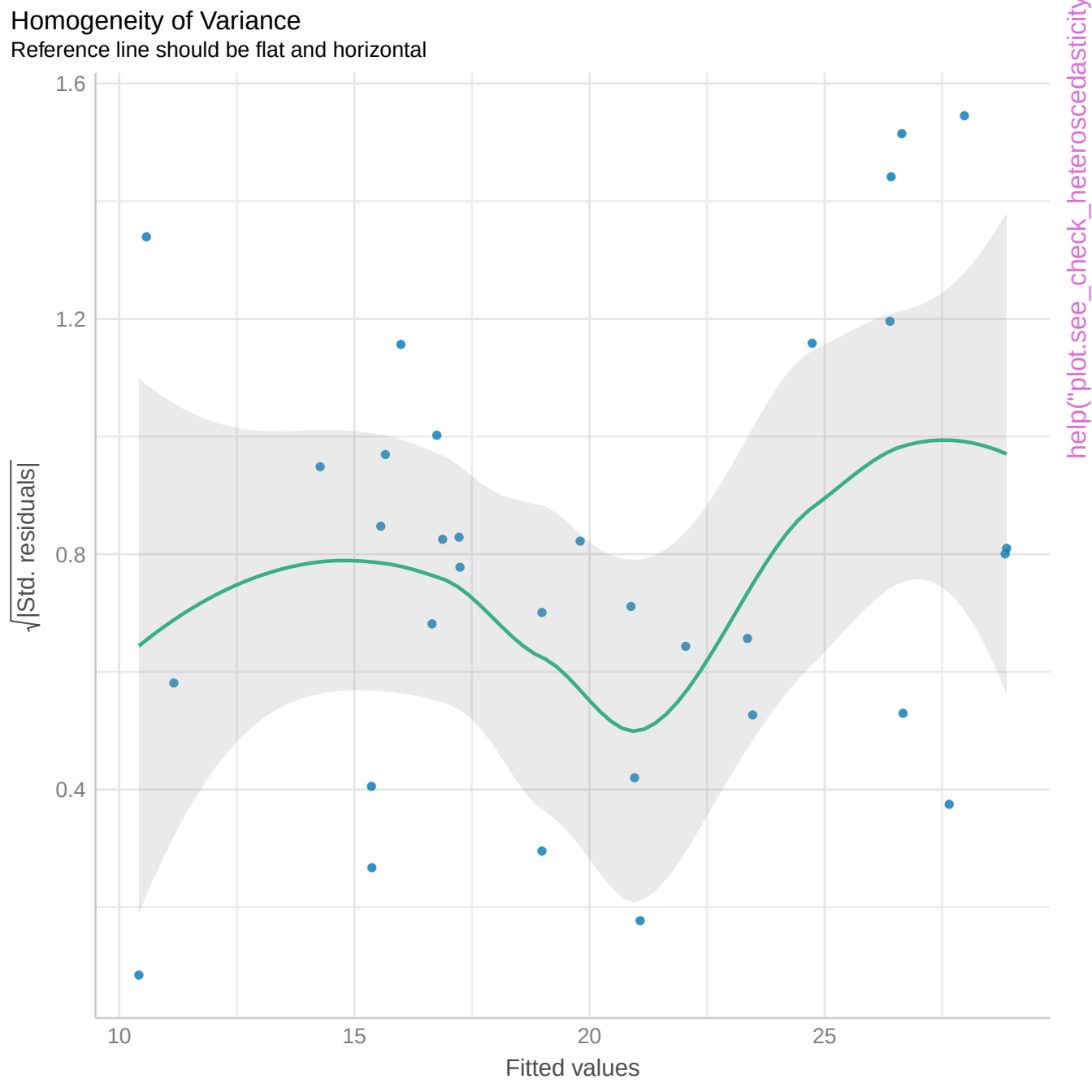


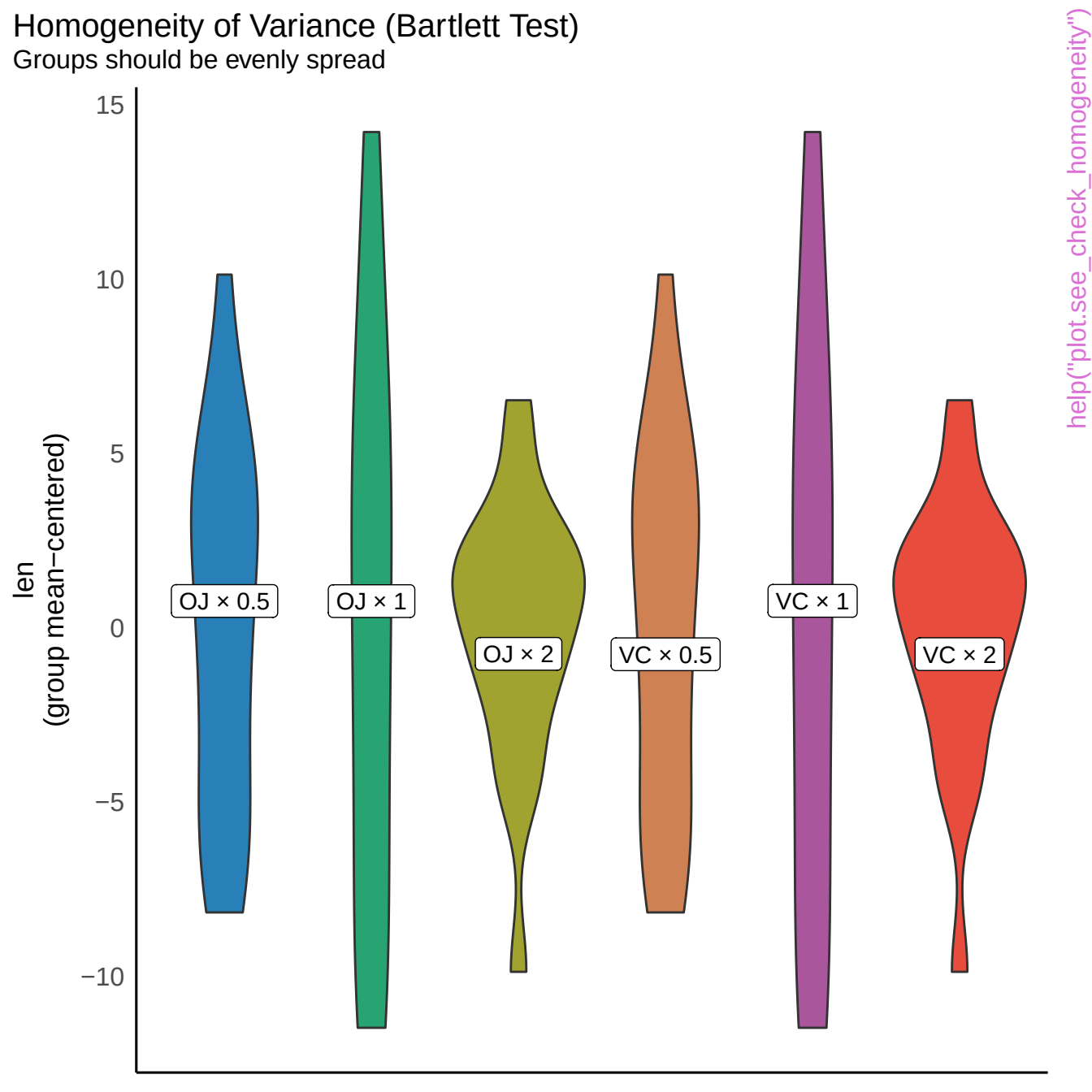
help("plot.see_bayesfactor_models")

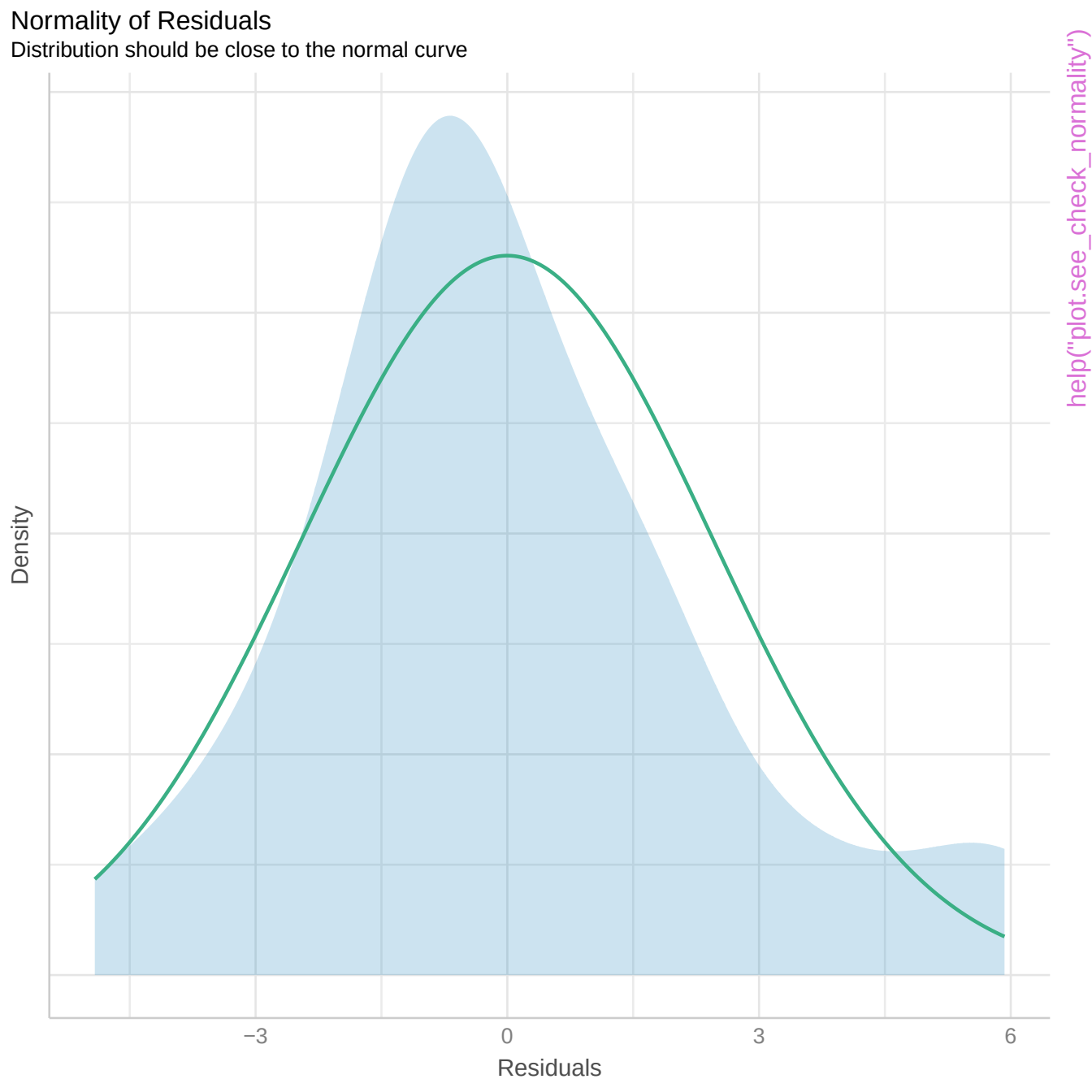


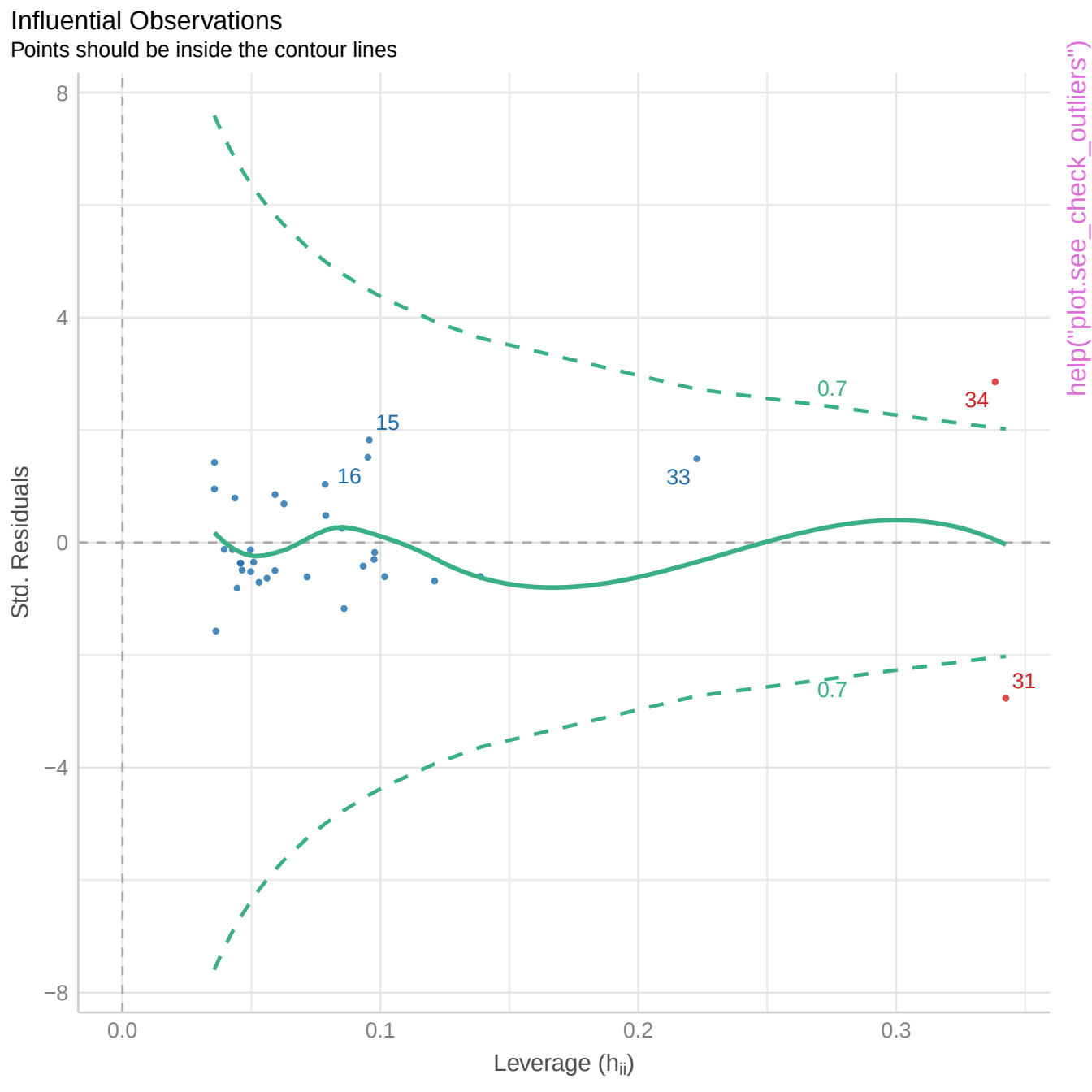
help("plot.see_bayesfactor_models")

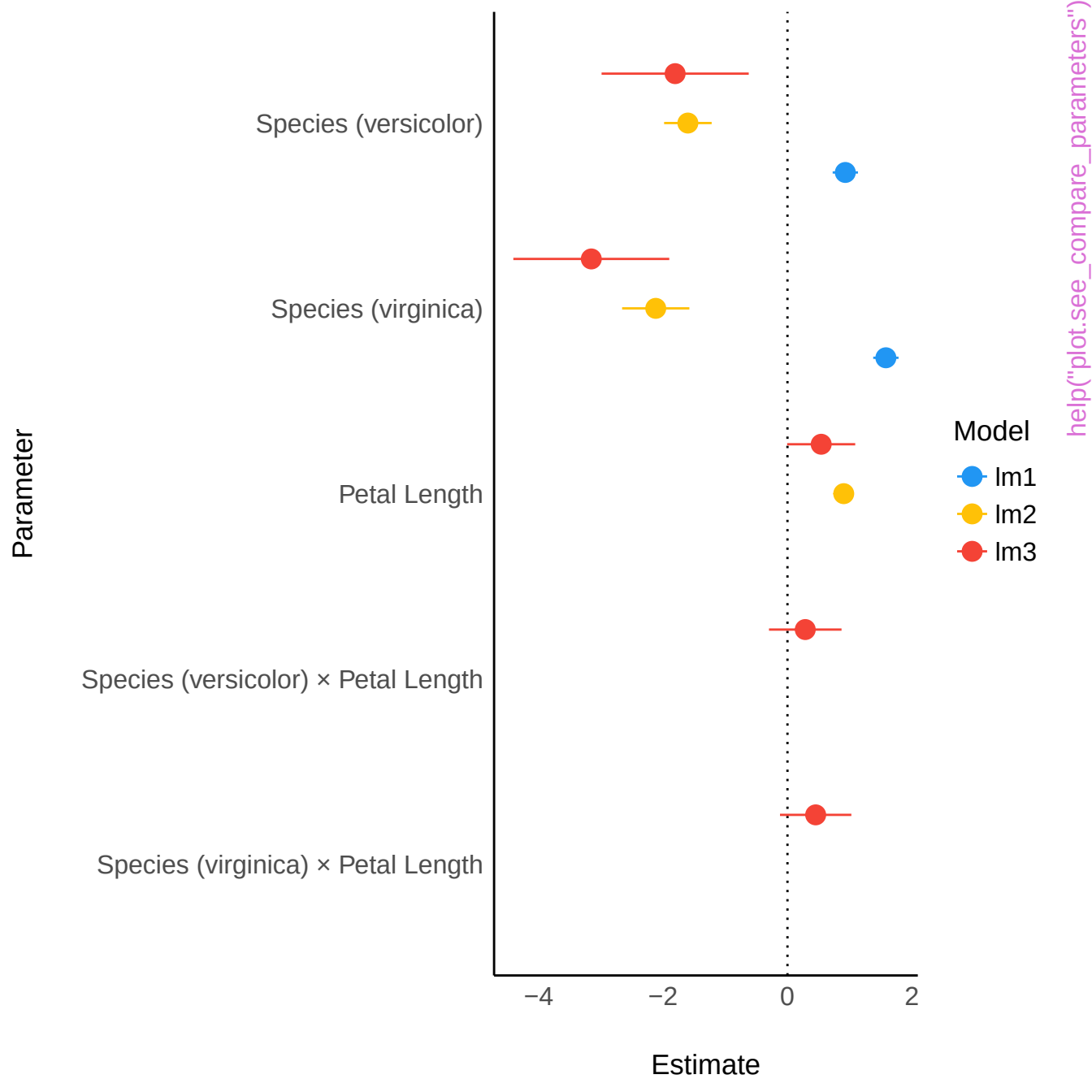

Collinearity
High collinearity (VIF) may inflate parameter uncertainty
Variance Inflation Factor (VIF, log−scaled)
10
5
3
2
1
cyl
disp
gear
wt
Low (< 5)
Moderate (< 10)
help("plot.see_check_collinearity")


Homogeneity of Variance
Reference line should be flat and horizontal
1.6
1.2
0.8
0.4
√|Std. residuals|
10
15
20
25
Fitted values
help("plot.see_check_heteroscedasticity")

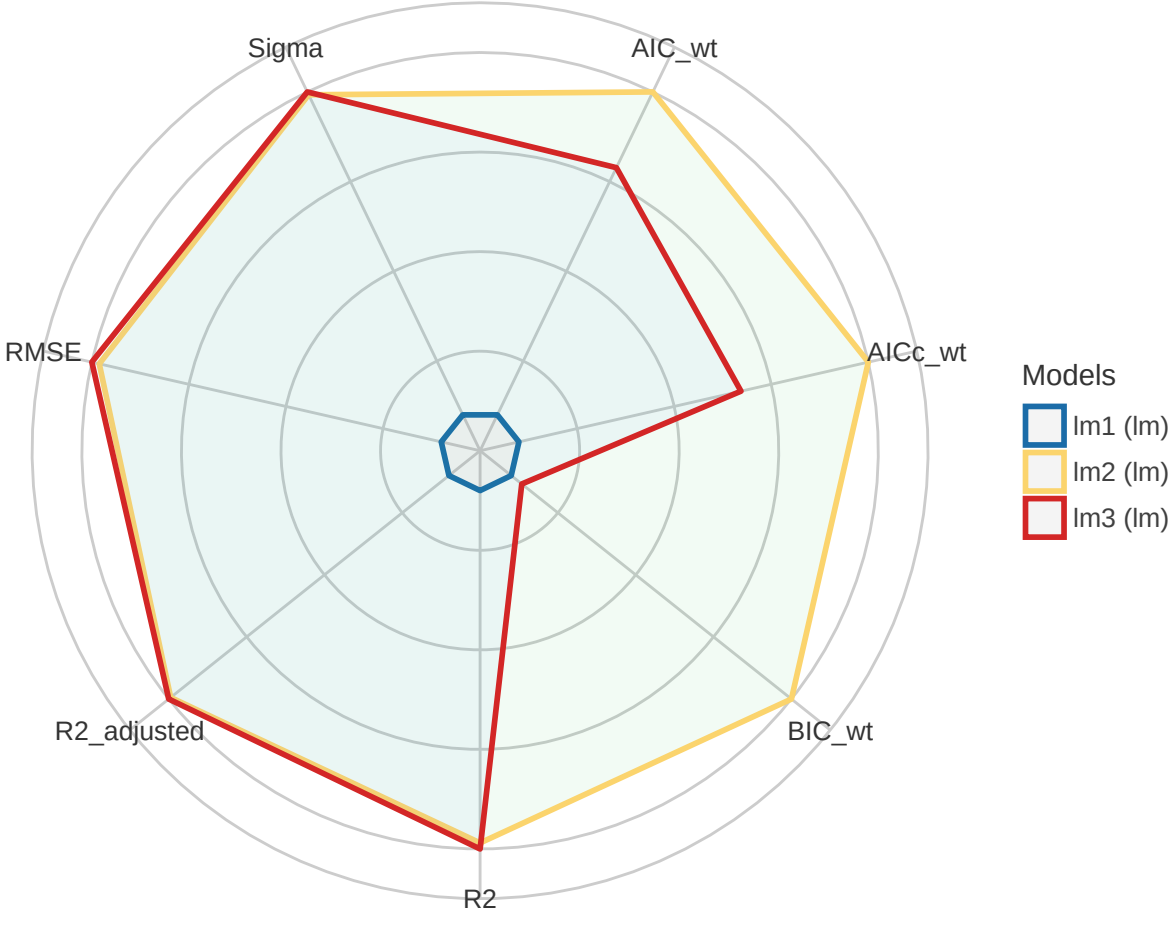

Homogeneity of Variance (Bartlett Test)
Groups should be evenly spread
len
(group mean−centered)
15
10
5
0
−5
−10
OJ × 0.5
OJ × 1
OJ × 2
VC × 0.5
VC × 1
VC × 2
help("plot.see_check_homogeneity")


Normality of Residuals
Distribution should be close to the normal curve
help("plot.see_check_normality")
Density
−3
0
3
6
Residuals

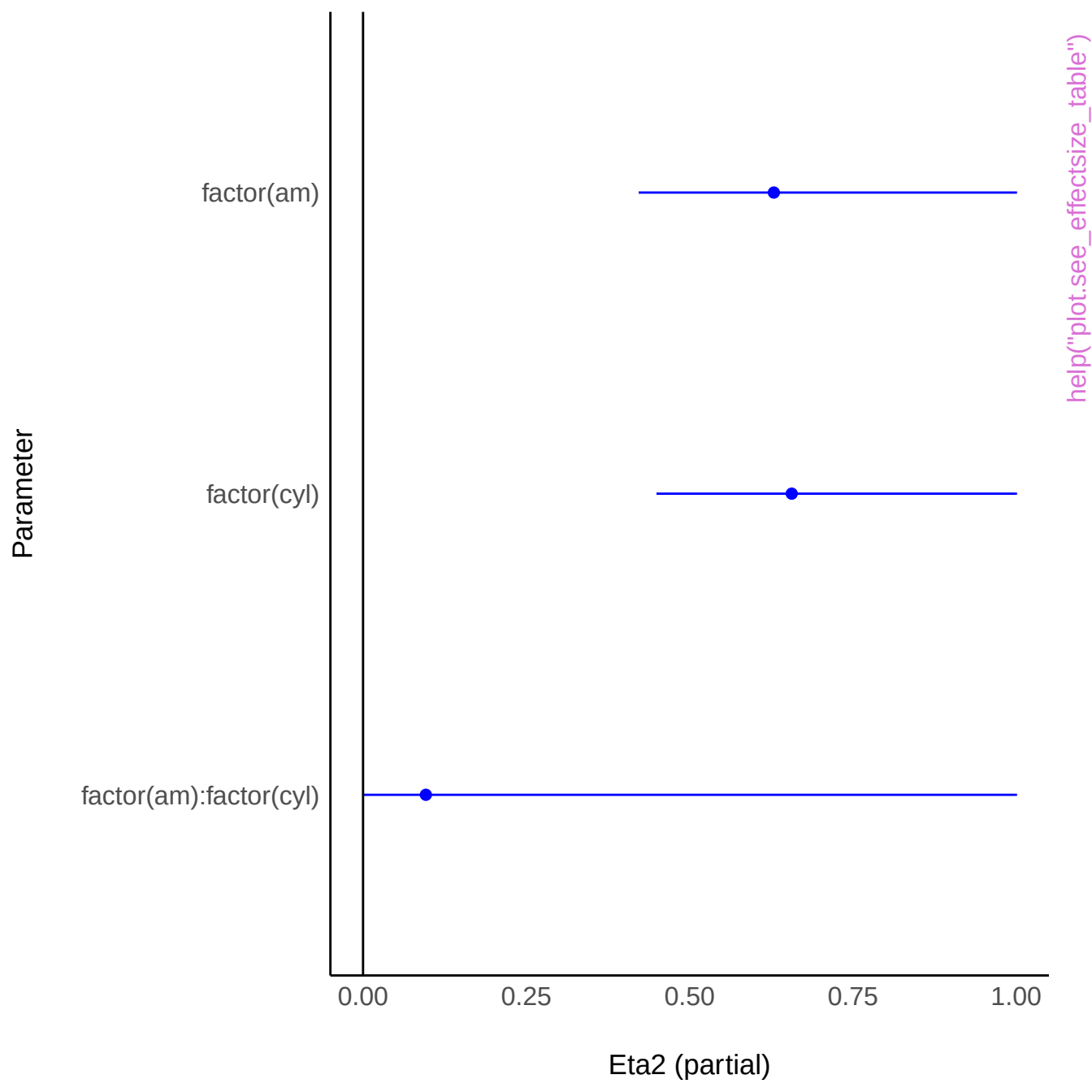

Influential Observations
Points should be inside the contour lines
8
4
0
−4
−8
Std. Residuals
0.0
0.1
0.2
0.3
Leverage (hii)
0.7
0.7
15
16
33
34
31
help("plot.see_check_outliers")

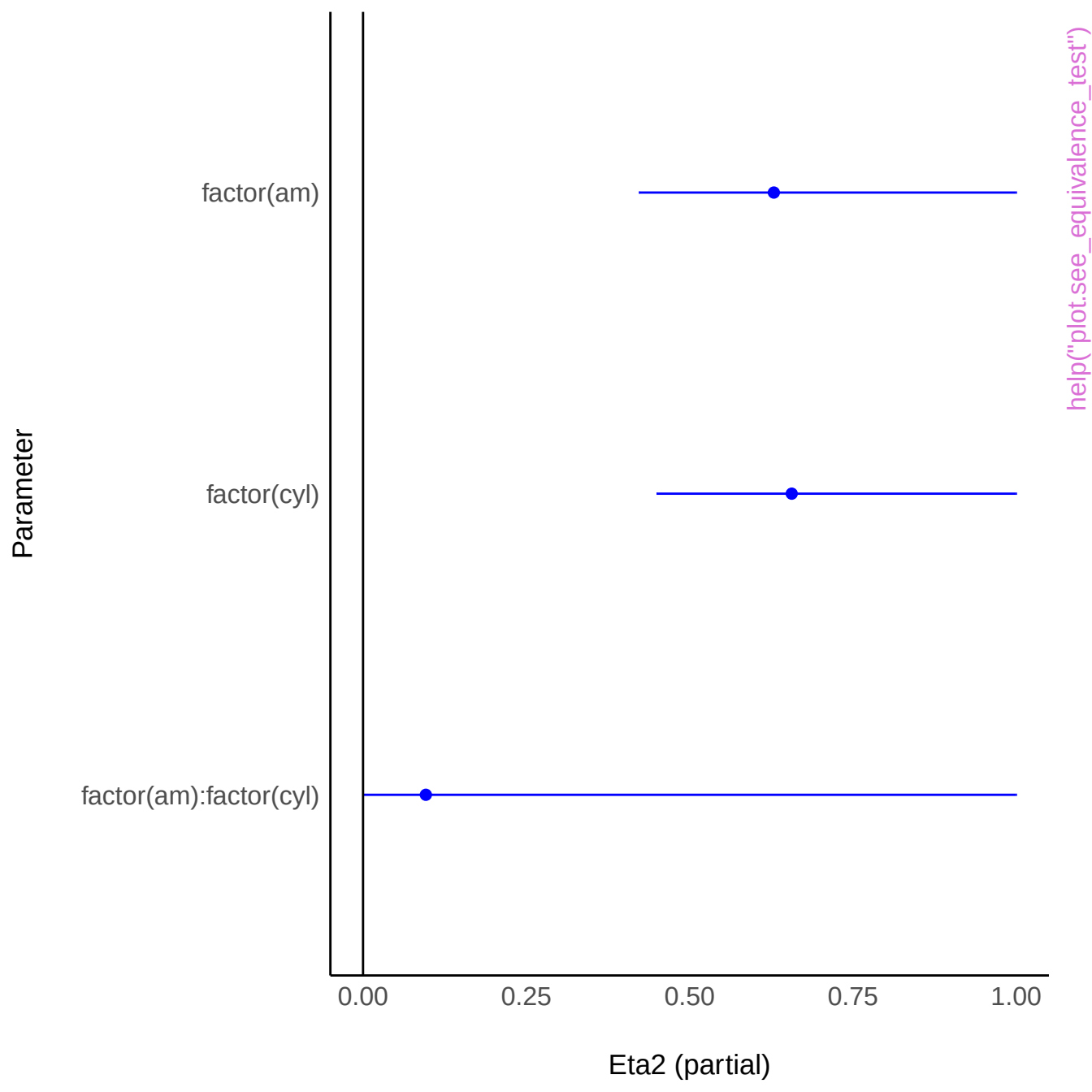

Species (versicolor)
Species (virginica)
Petal Length
Species (versicolor) × Petal Length
Species (virginica) × Petal Length
Parameter
−4
−2
0
2
Estimate
Model
lm1
lm2
lm3
help("plot.see_compare_parameters")

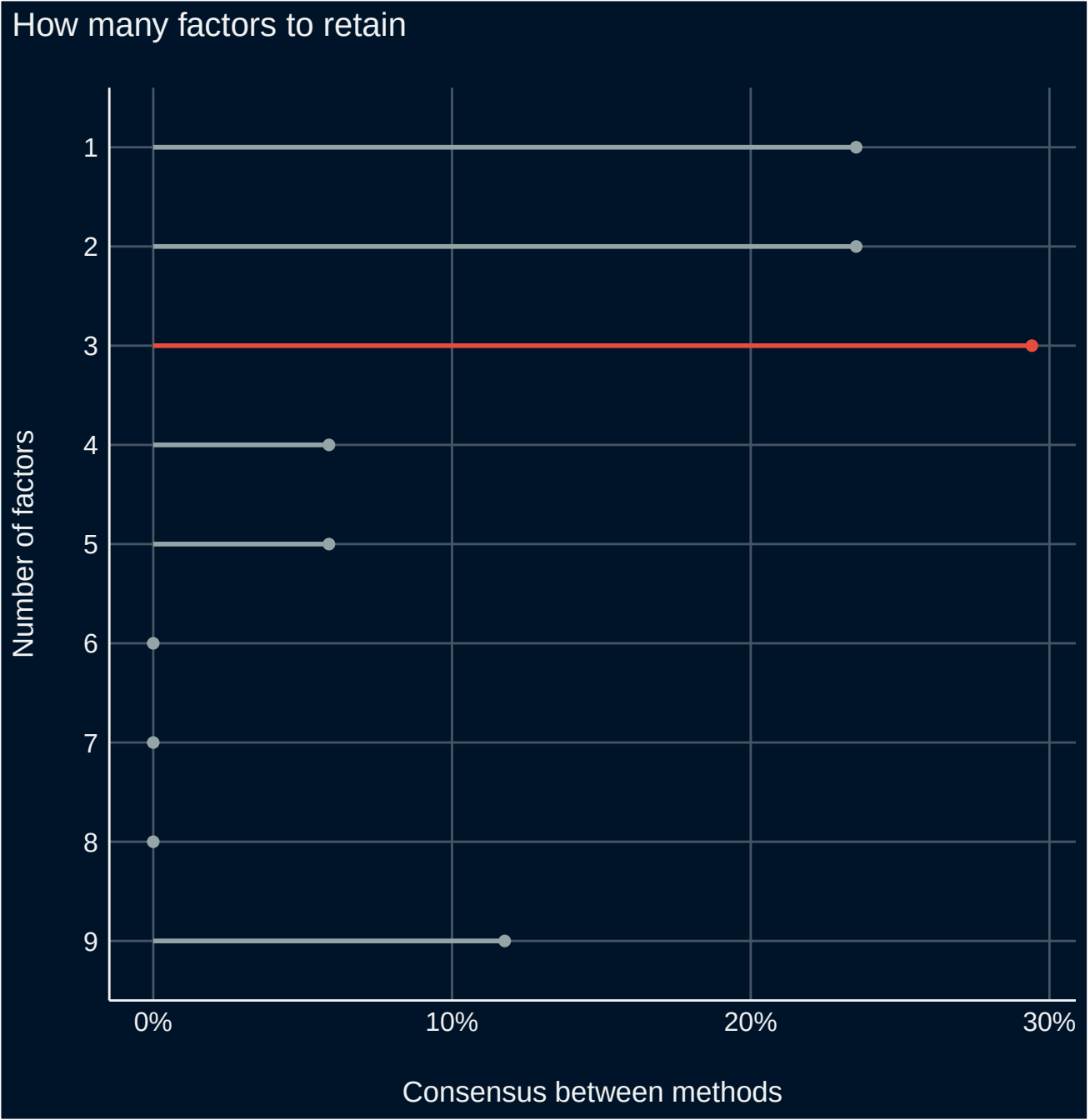
Comparison of Model Indices

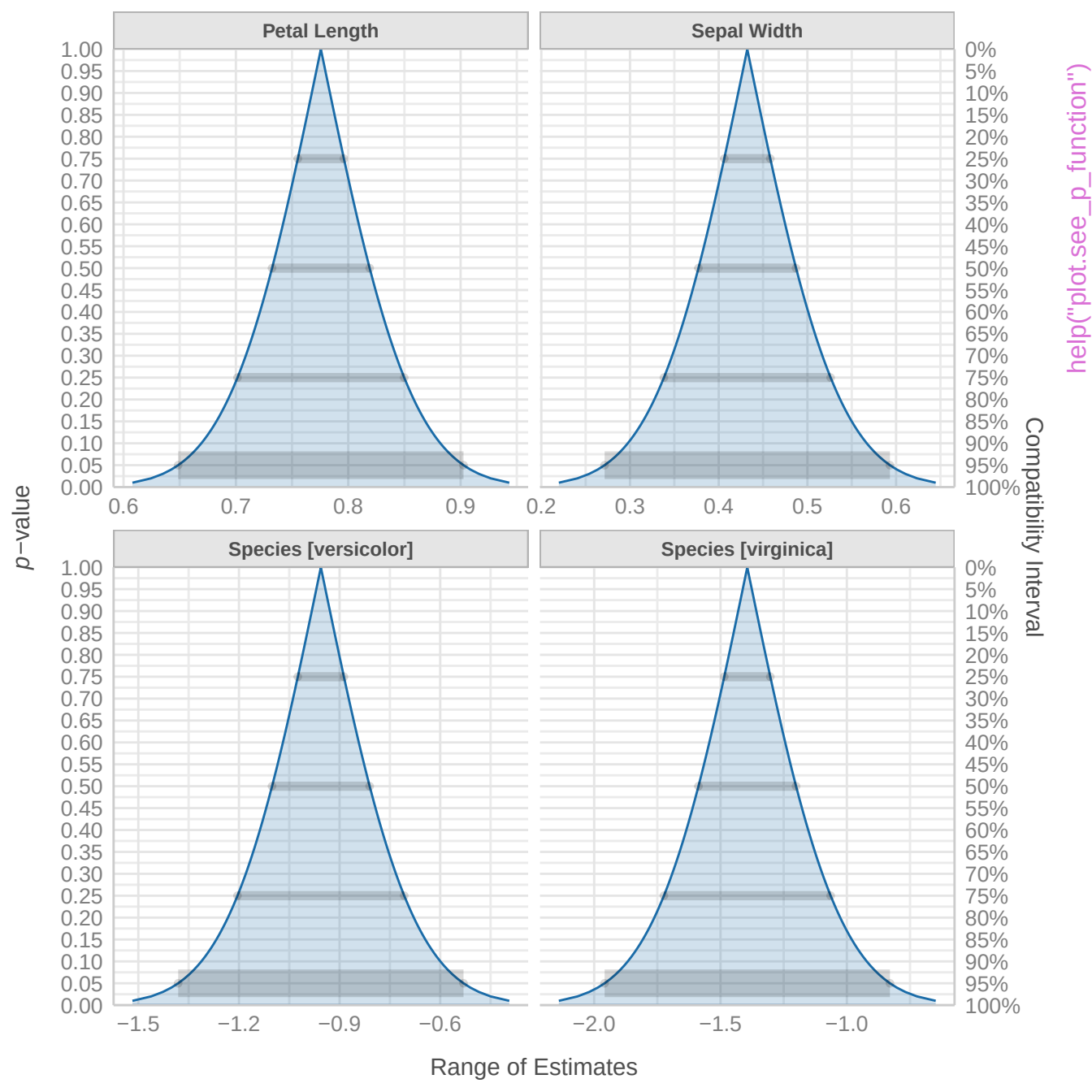


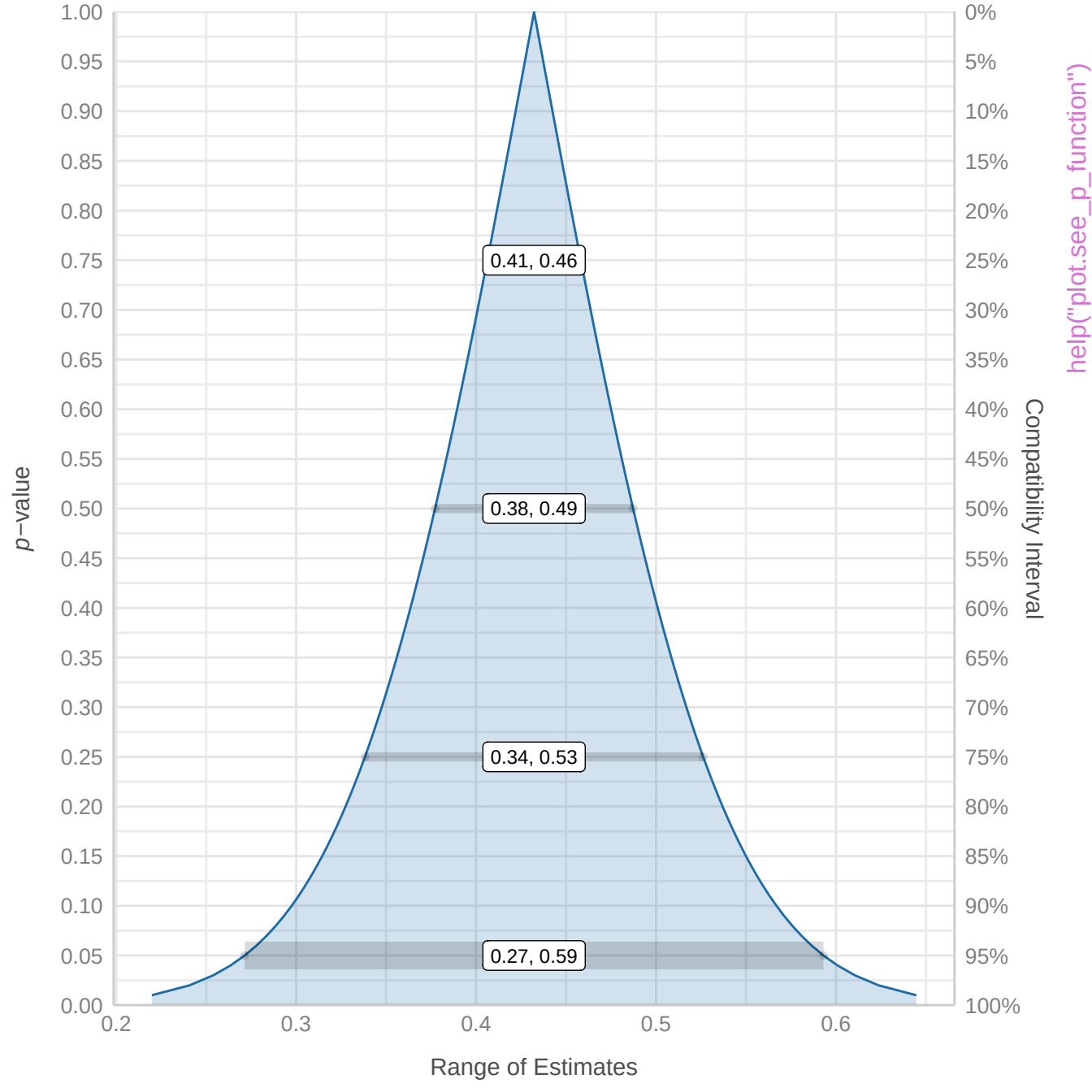
help("plot.see_compare_performance")

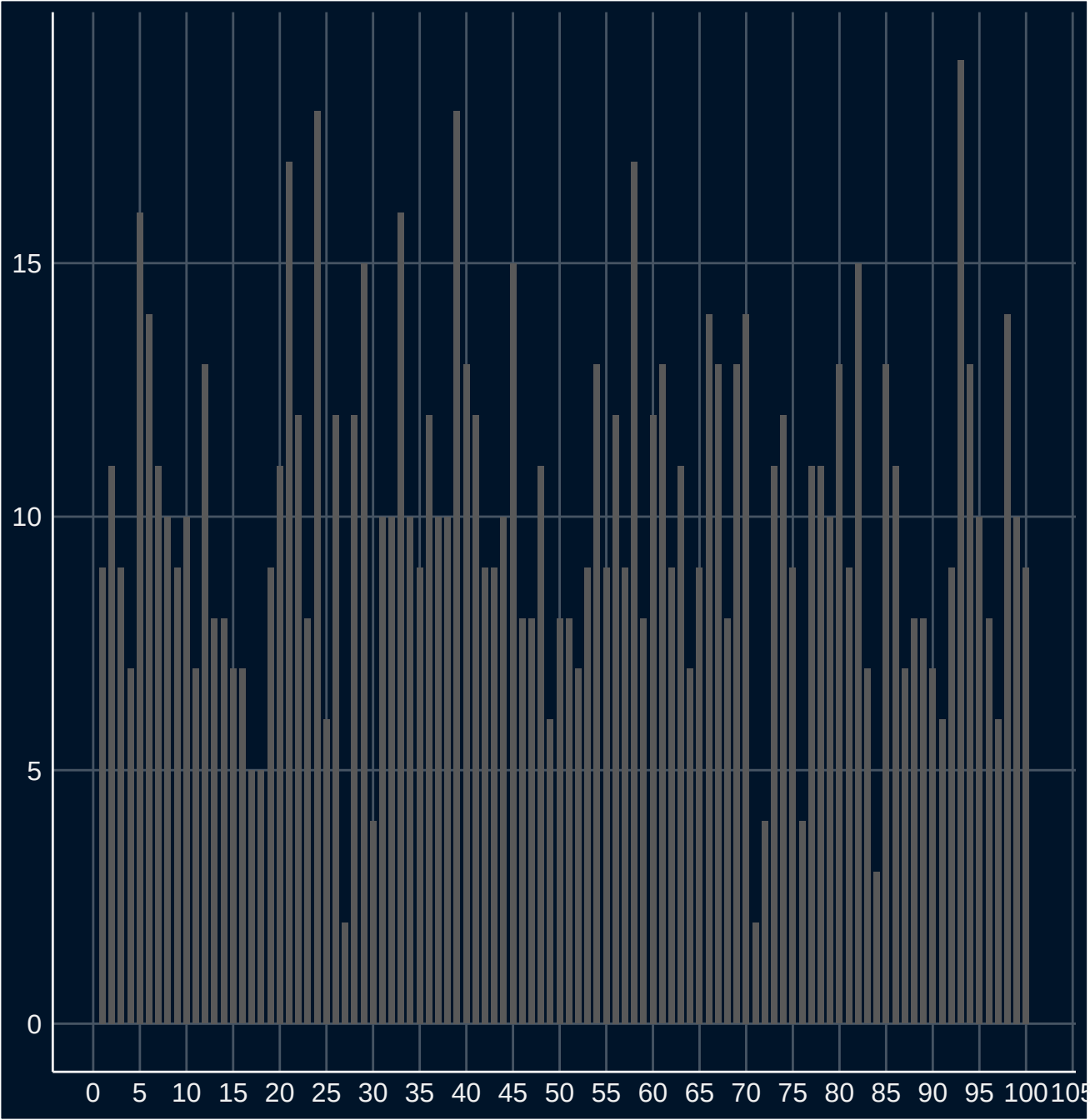

factor(am)
factor(cyl)
factor(am):factor(cyl)
Parameter
0.00
0.25
0.50
0.75
1.00
Eta2 (partial)
help("plot.see_effectsize_table")

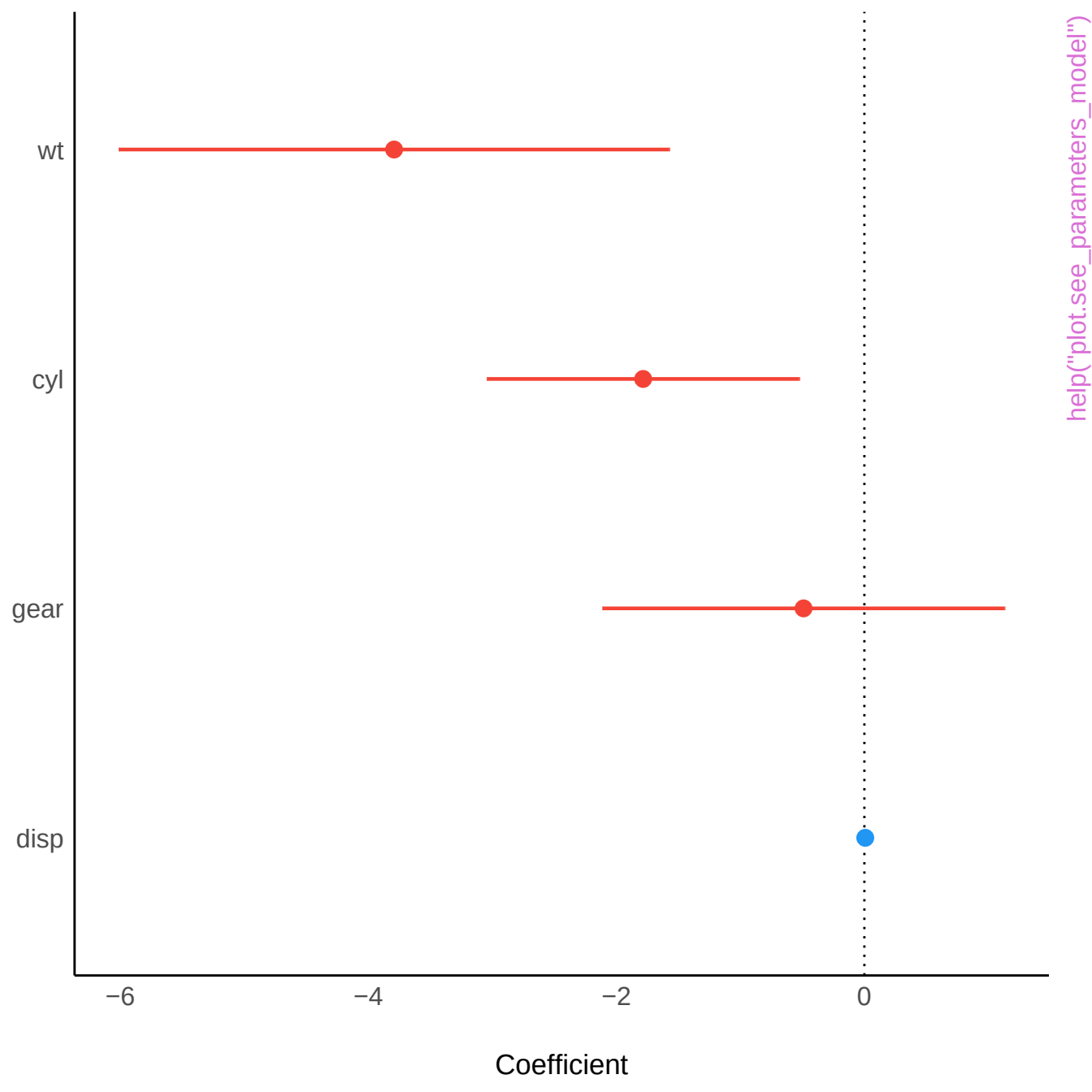

factor(am)
factor(cyl)
factor(am):factor(cyl)
Parameter
0.00
0.25
0.50
0.75
1.00
Eta2 (partial)
help("plot.see_equivalence_test")

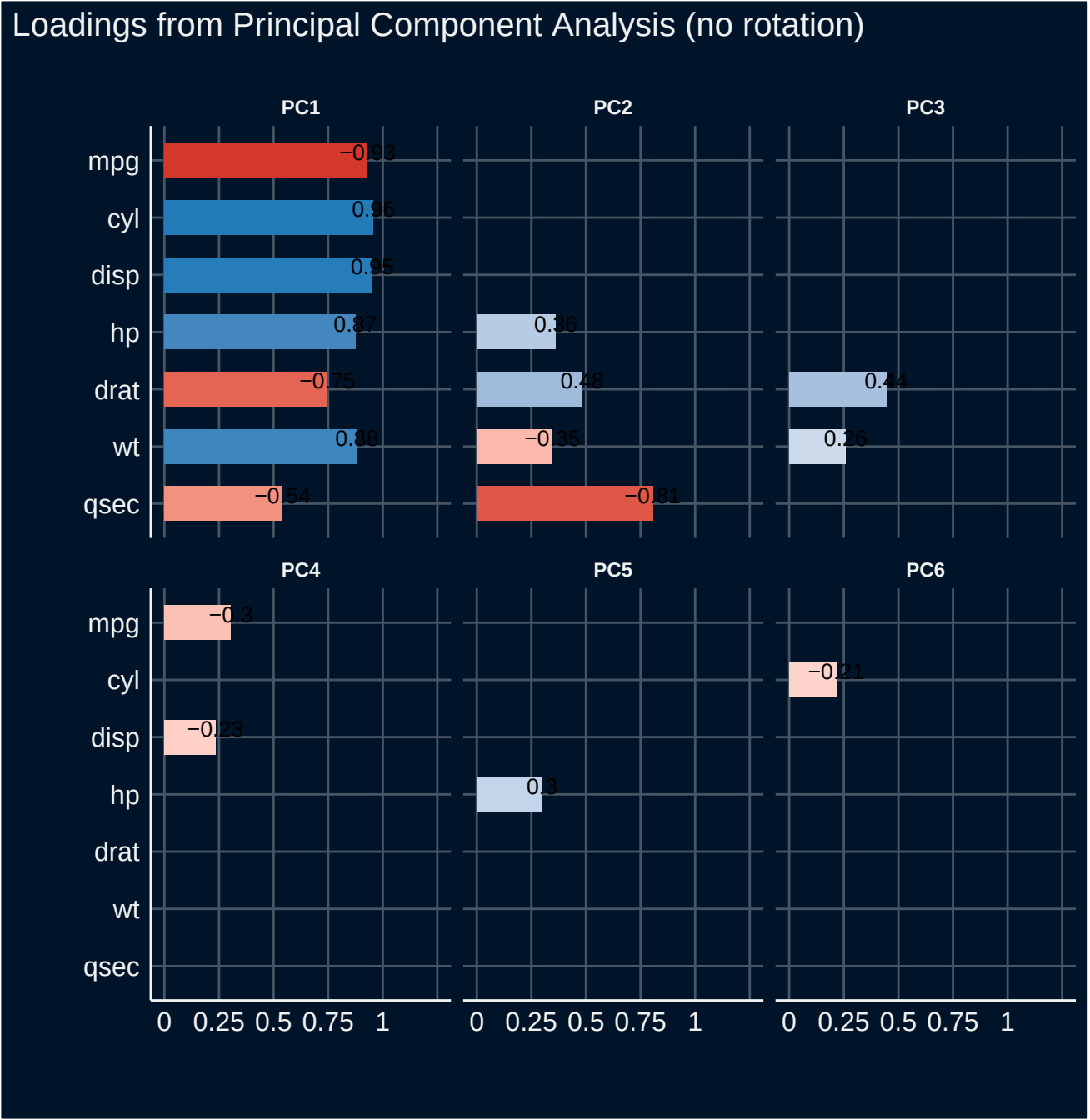

How many factors to retain
Number of factors
1
2
3
4
5
6
7
8
9
0%
10%
20%
30%
Consensus between methods
help("plot.see_n_factors")

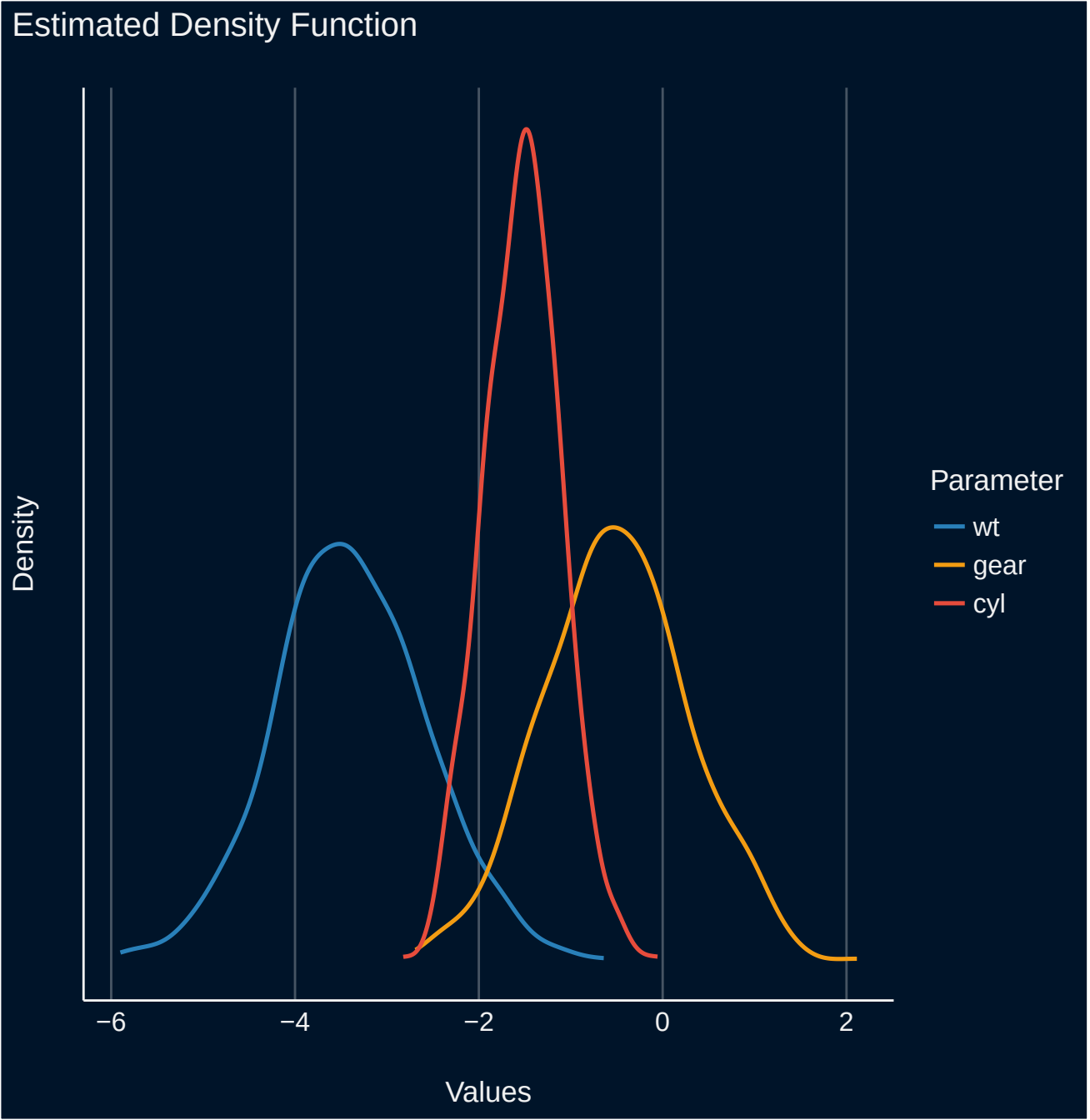

Petal Length
Sepal Width
Species [versicolor]
Species [virginica]
p−value
Compatibility Interval
Range of Estimates
help("plot.see_p_function")

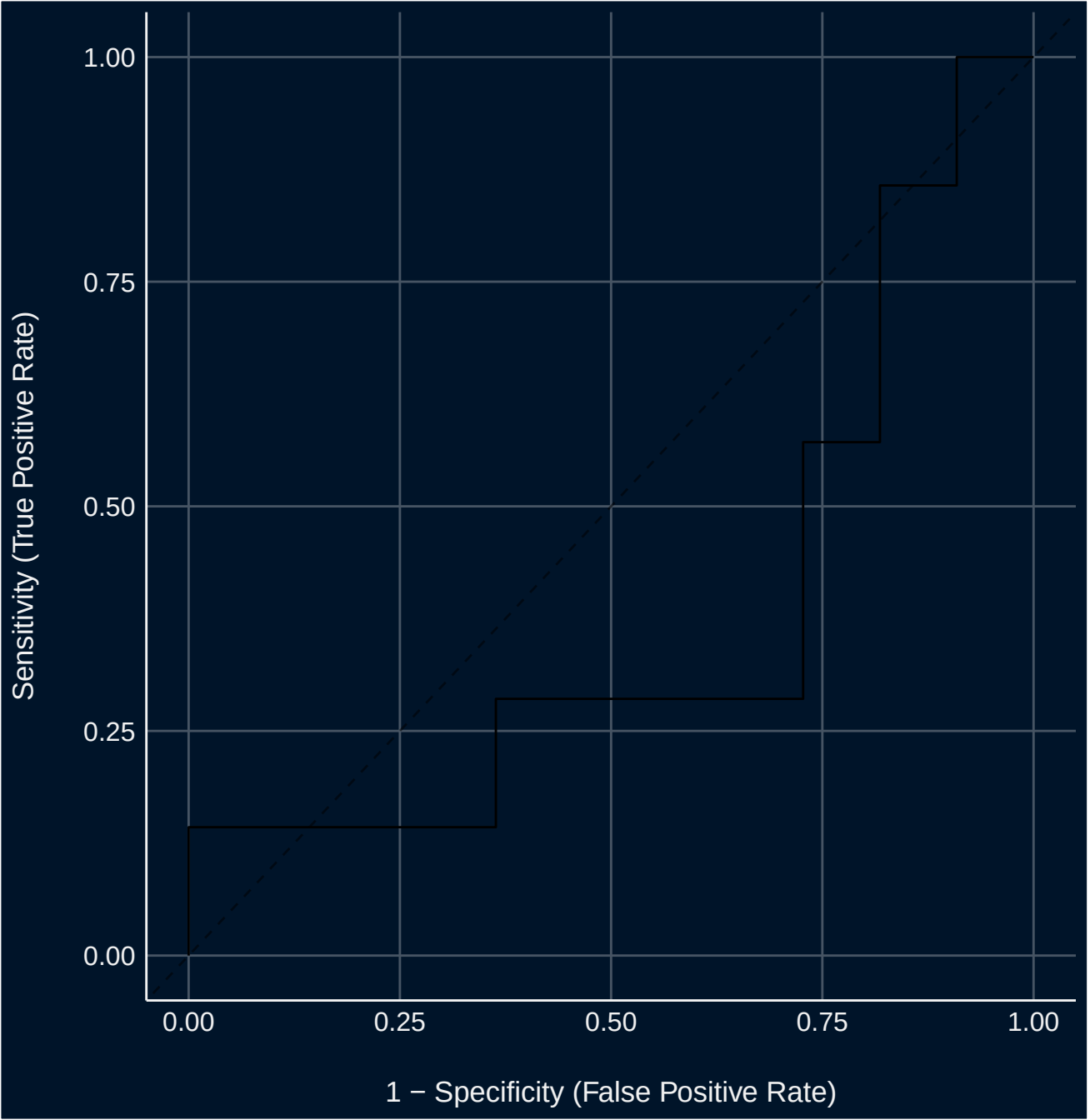

0.41, 0.46
0.38, 0.49
0.34, 0.53
0.27, 0.59
p−value
Compatibility Interval
Range of Estimates
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0%
5%
10%
15%
20%
25%
30%
35%
40%
45%
50%
55%
60%
65%
70%
75%
80%
85%
90%
95%
100%
0.2
0.3
0.4
0.5
0.6
help("plot.see_p_function")

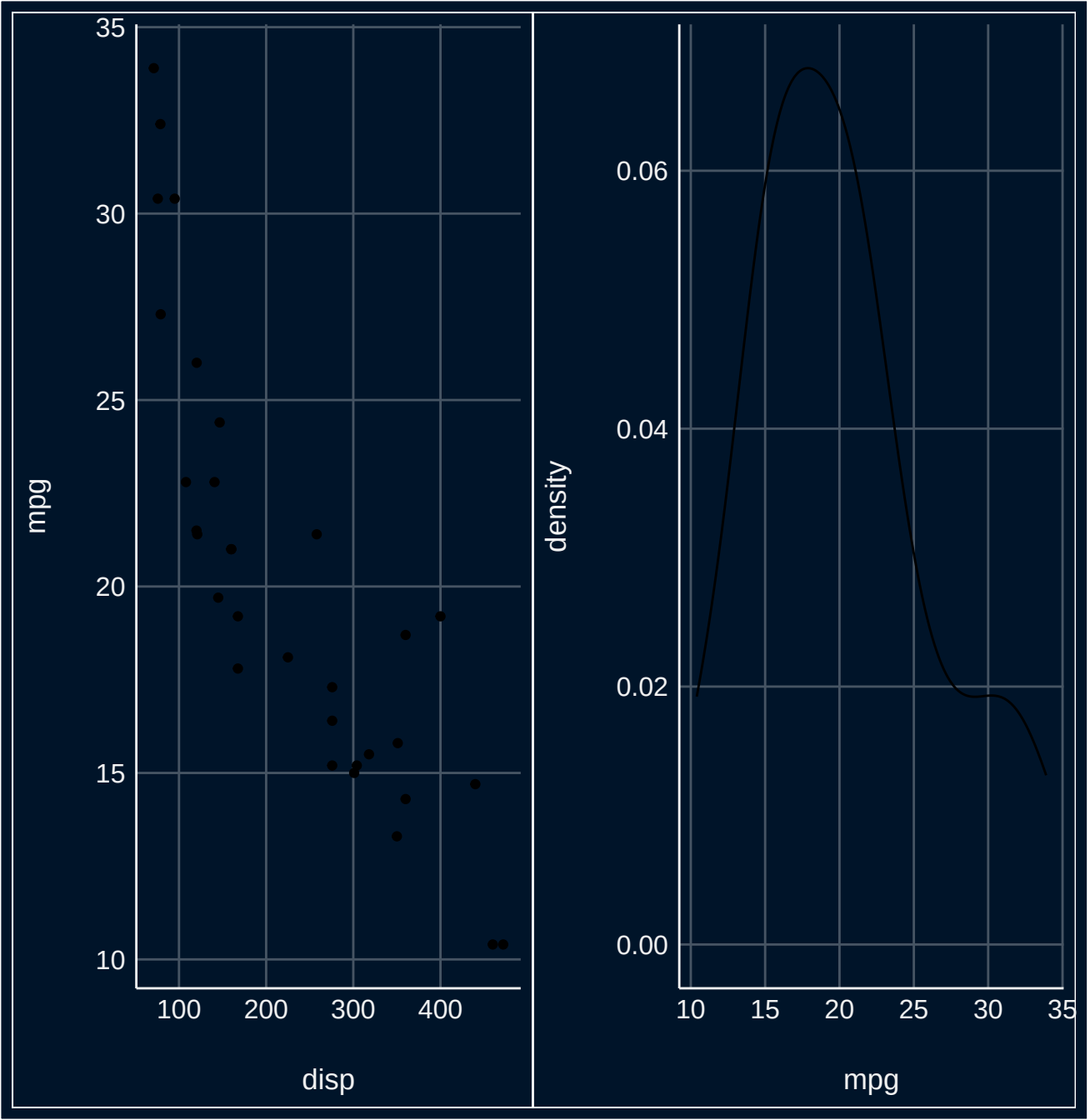

0
5
10
15
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105
help("plot.see_parameters_distribution")


wt
cyl
gear
disp
−6
−4
−2
0
Coefficient
help("plot.see_parameters_model")

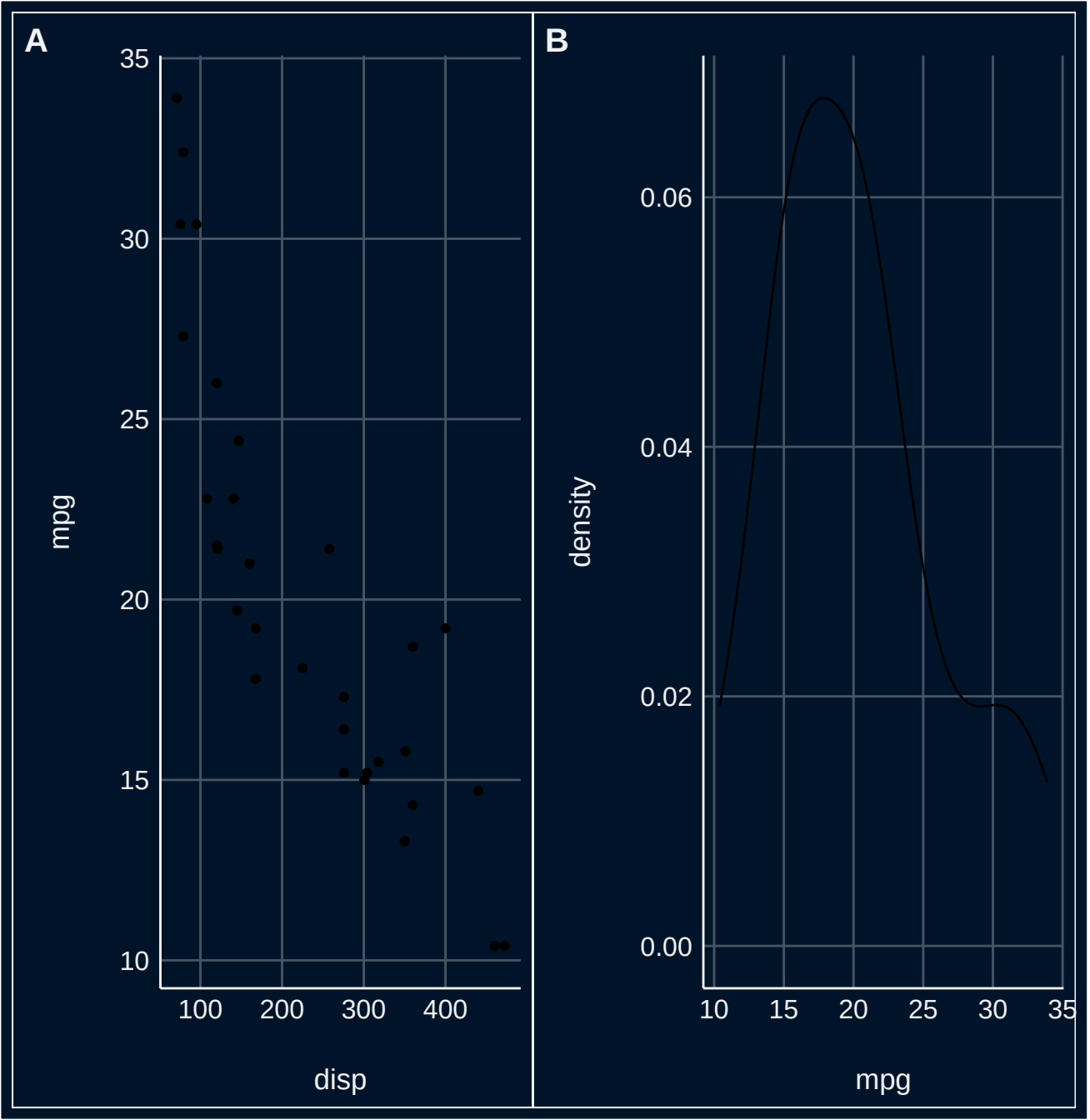

Loadings from Principal Component Analysis (no rotation)
PC1
PC2
PC3
PC4
PC5
PC6
mpg
cyl
disp
hp
drat
wt
qsec
−0.93
0.96
0.95
0.87
−0.75
0.88
−0.54
0.36
0.48
−0.35
−0.81
0.44
0.26
−0.3
−0.23
0.3
−0.21
0
0.25
0.5
0.75
1
help("plot.see_parameters_pca")


Estimated Density Function
Density
Values
−6
−4
−2
0
2
Parameter
wt
gear
cyl
help("plot.see_parameters_simulate")


1.00
0.75
0.50
0.25
0.00
Sensitivity (True Positive Rate)
0.00
0.25
0.50
0.75
1.00
1 − Specificity (False Positive Rate)
help("plot.see_performance_roc")


35
30
25
20
15
10
mpg
100
200
300
400
disp
0.06
0.04
0.02
0.00
density
10
15
20
25
30
35
mpg

help("plots")


A
35
30
25
20
15
10
mpg
100
200
300
400
disp
B
0.06
0.04
0.02
0.00
density
10
15
20
25
30
35
mpg
help("plots")

The surprising truth about mtcars

Fig. 1

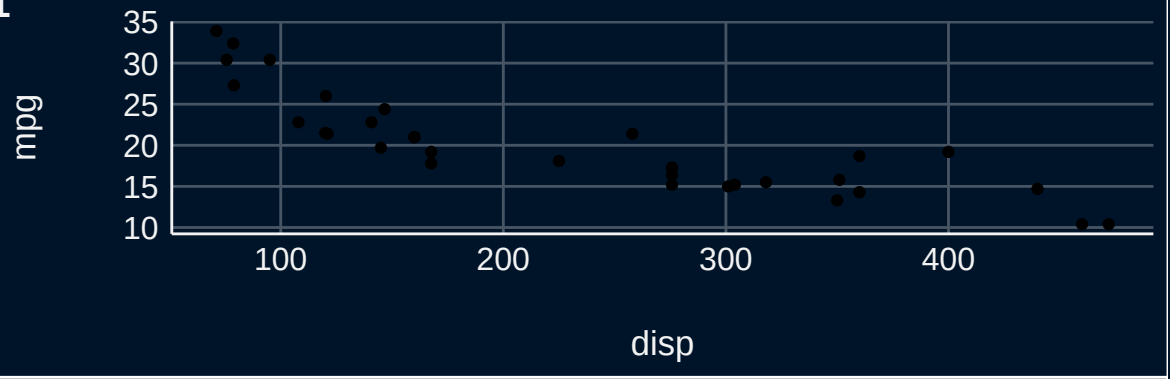


Fig. 2

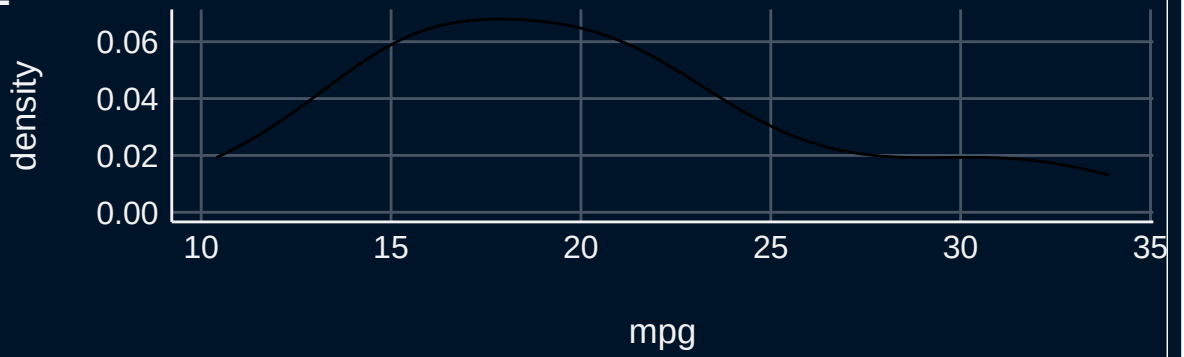
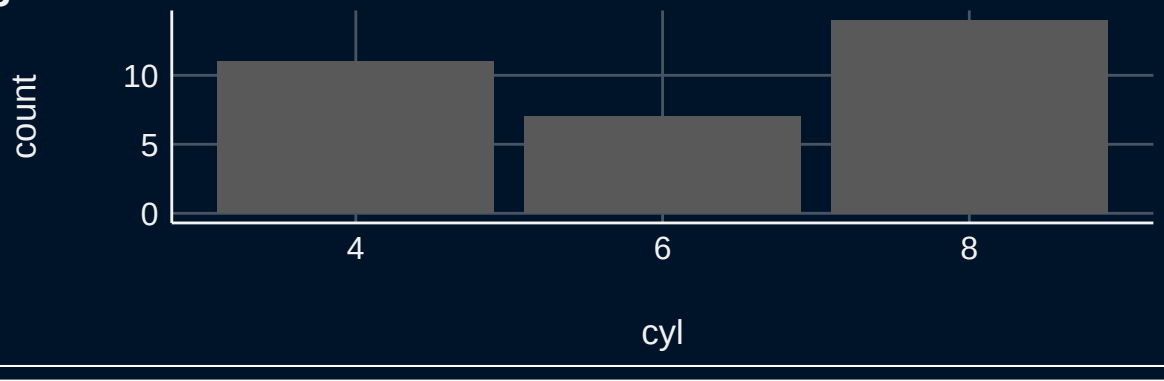
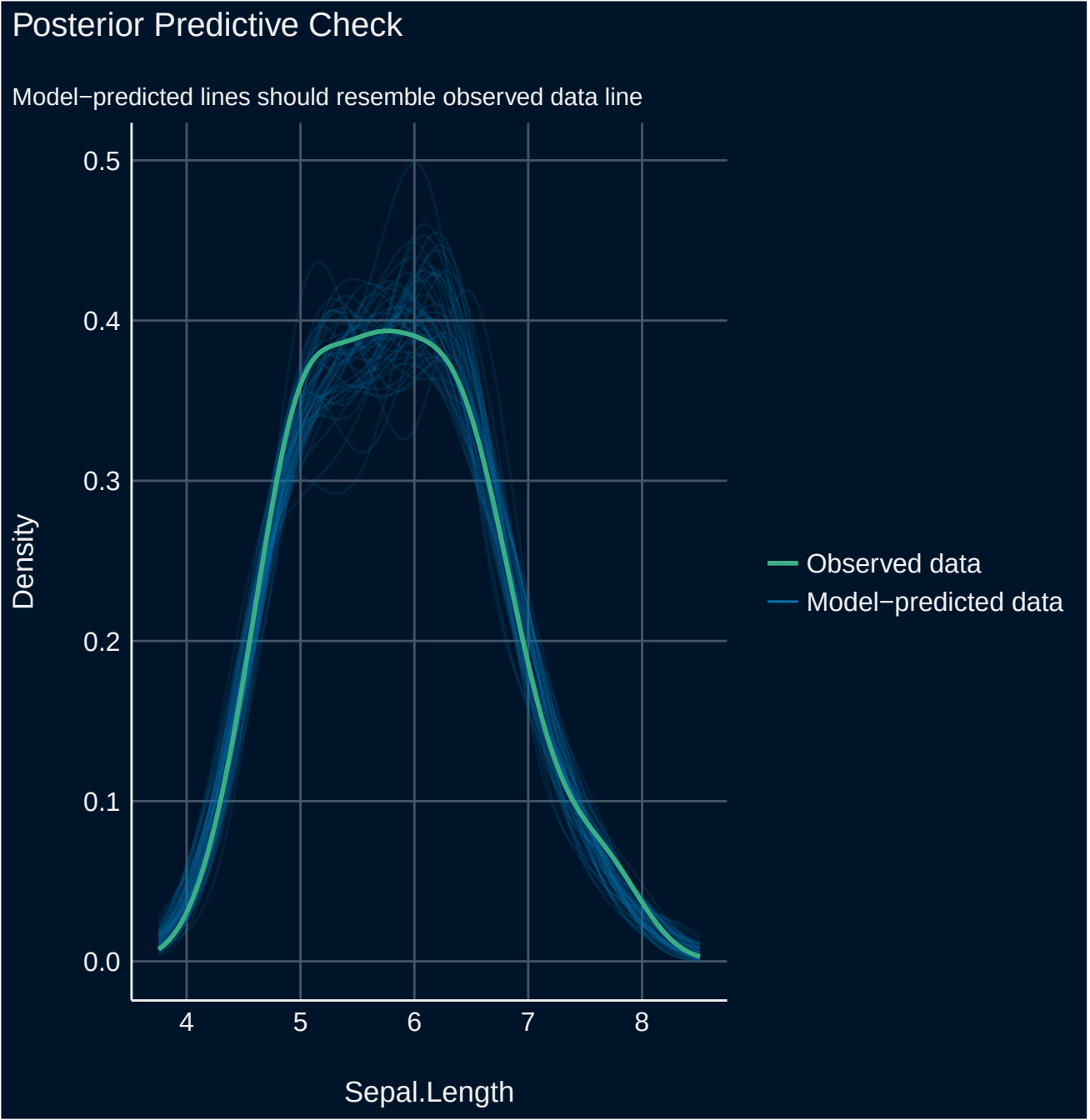
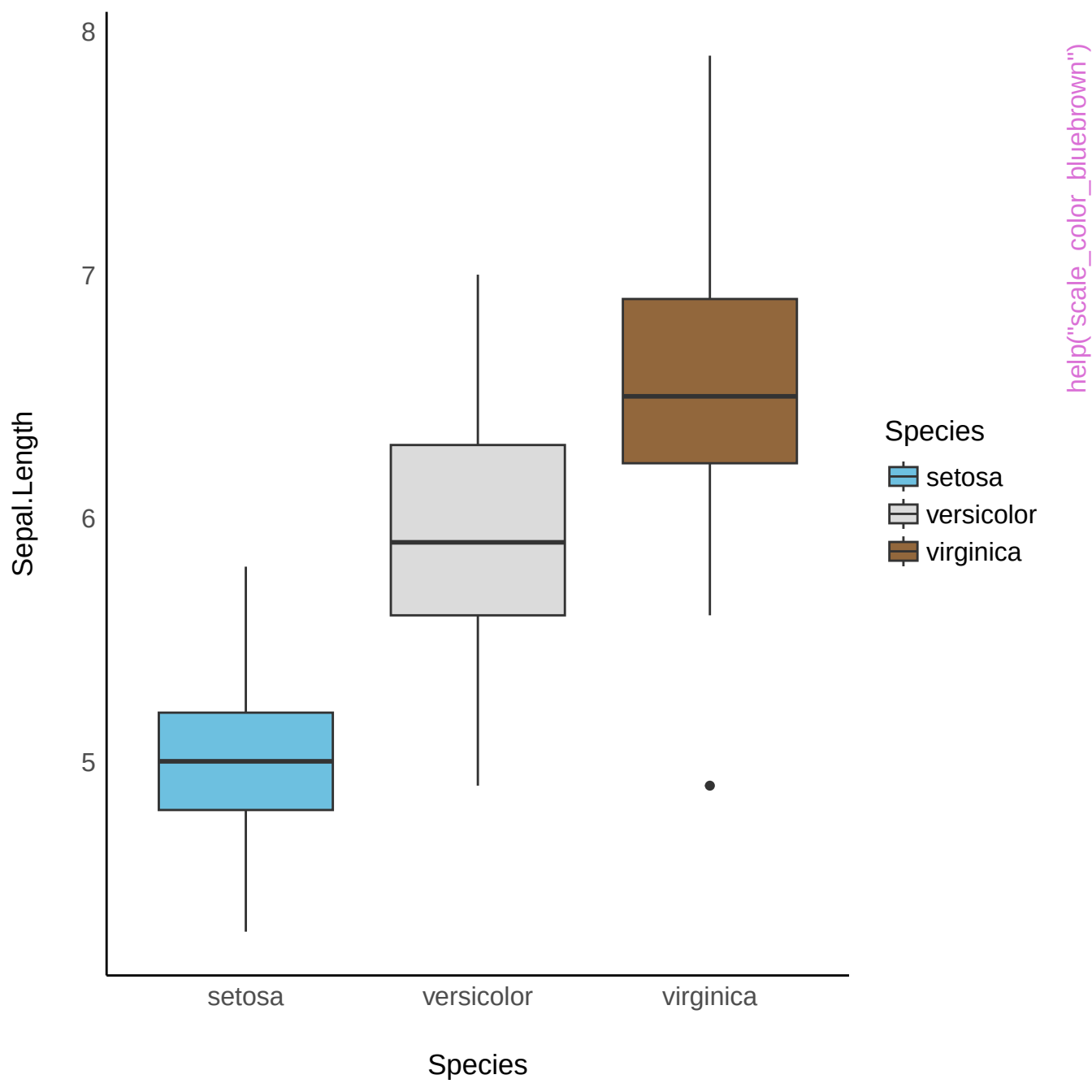


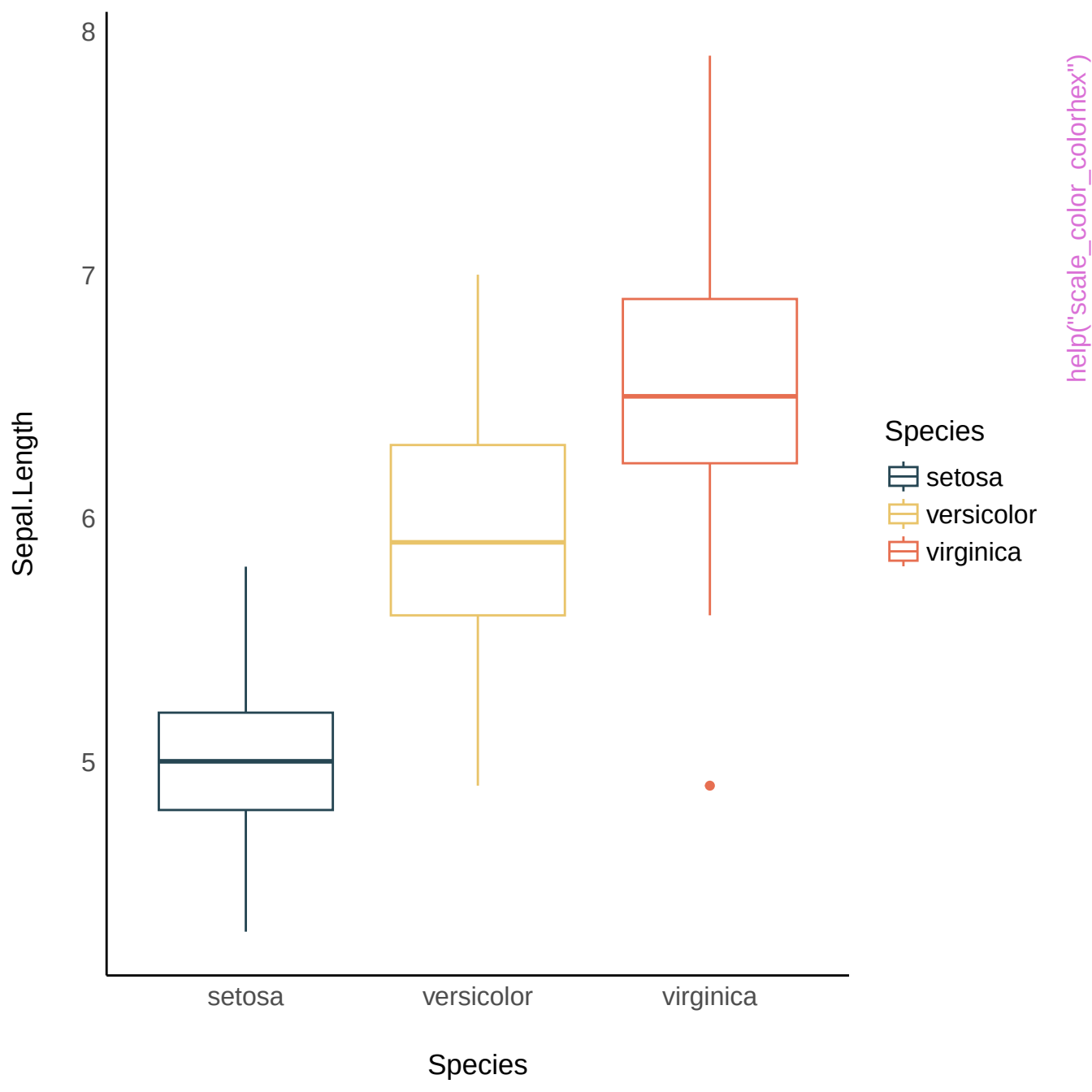
Fig. 3

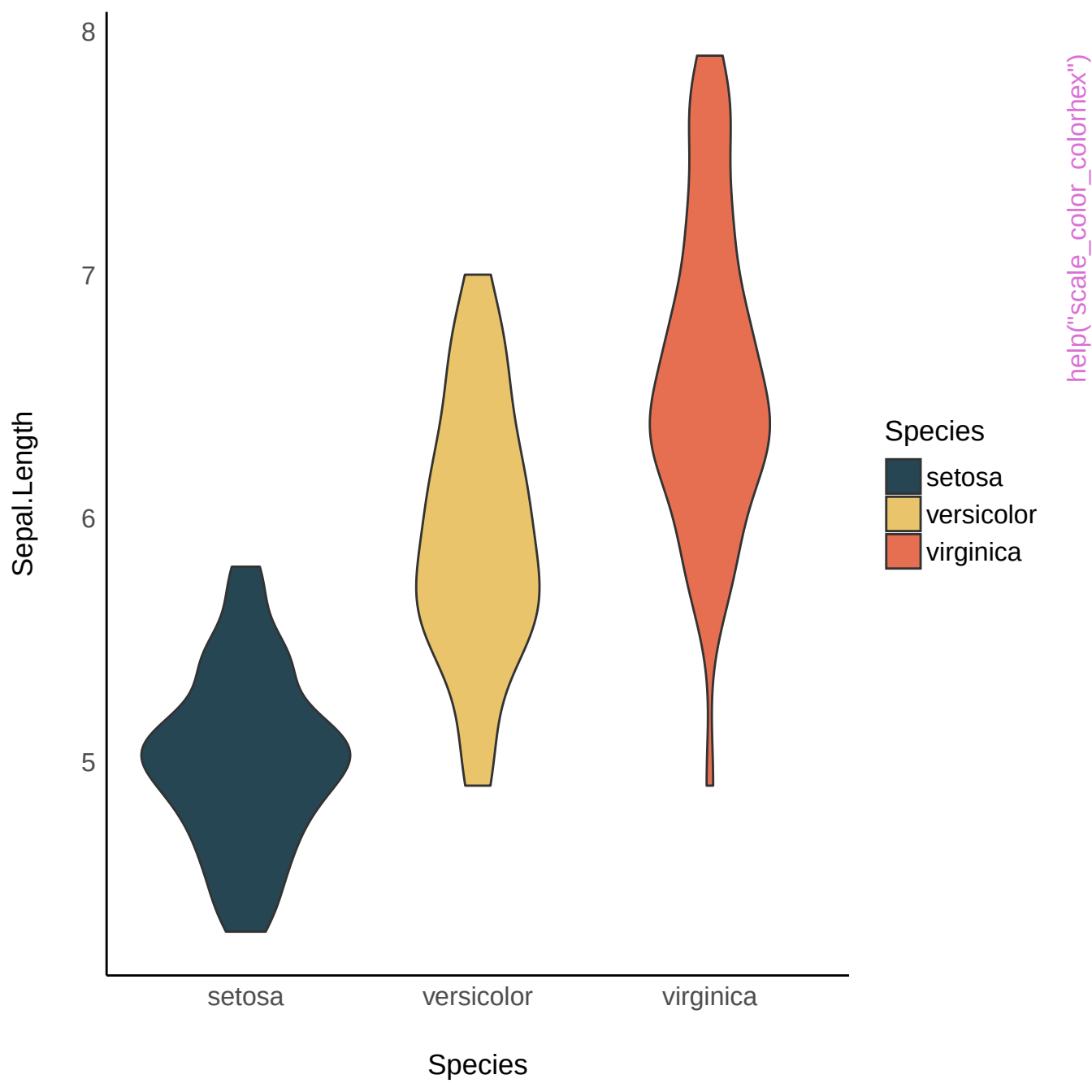


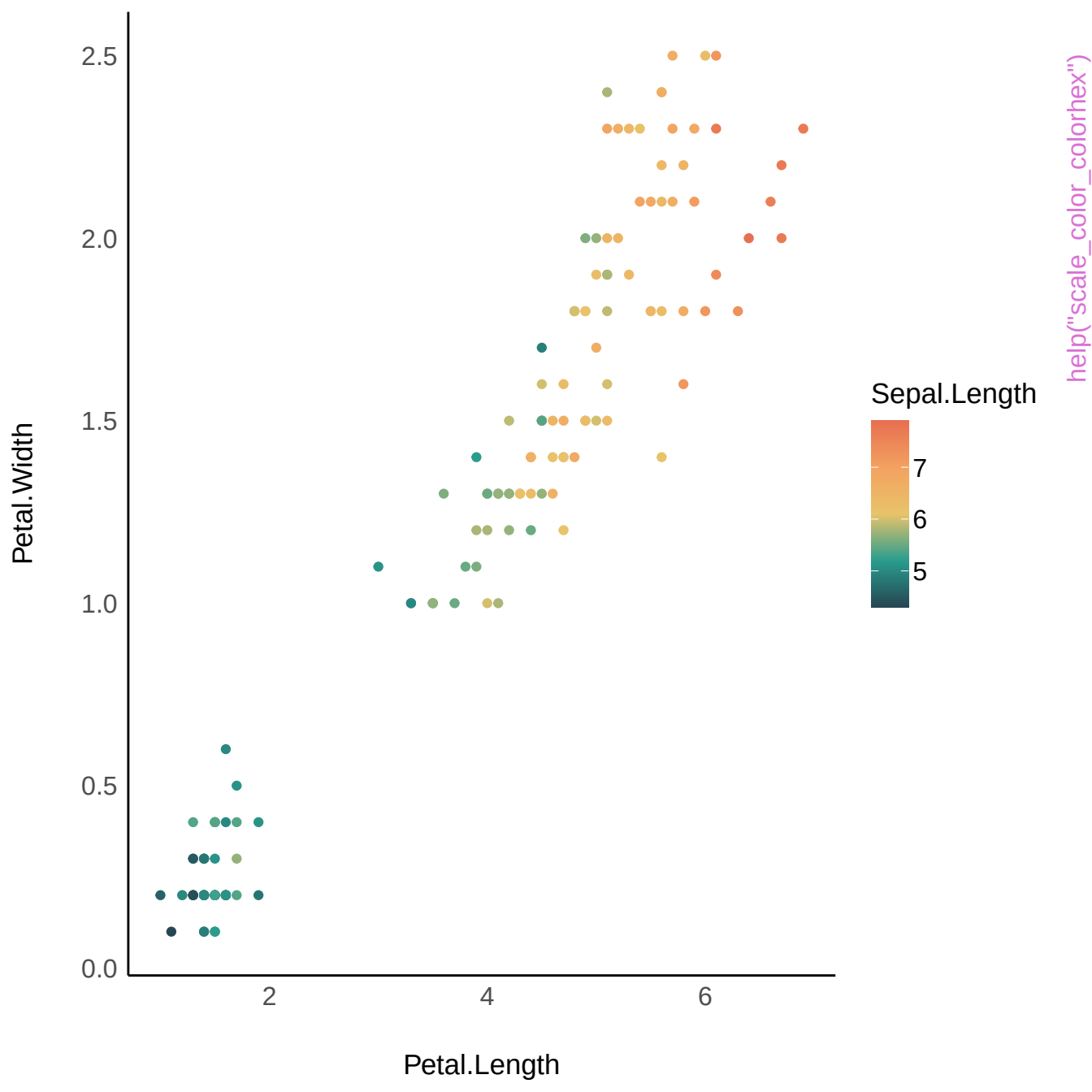
help("plots")

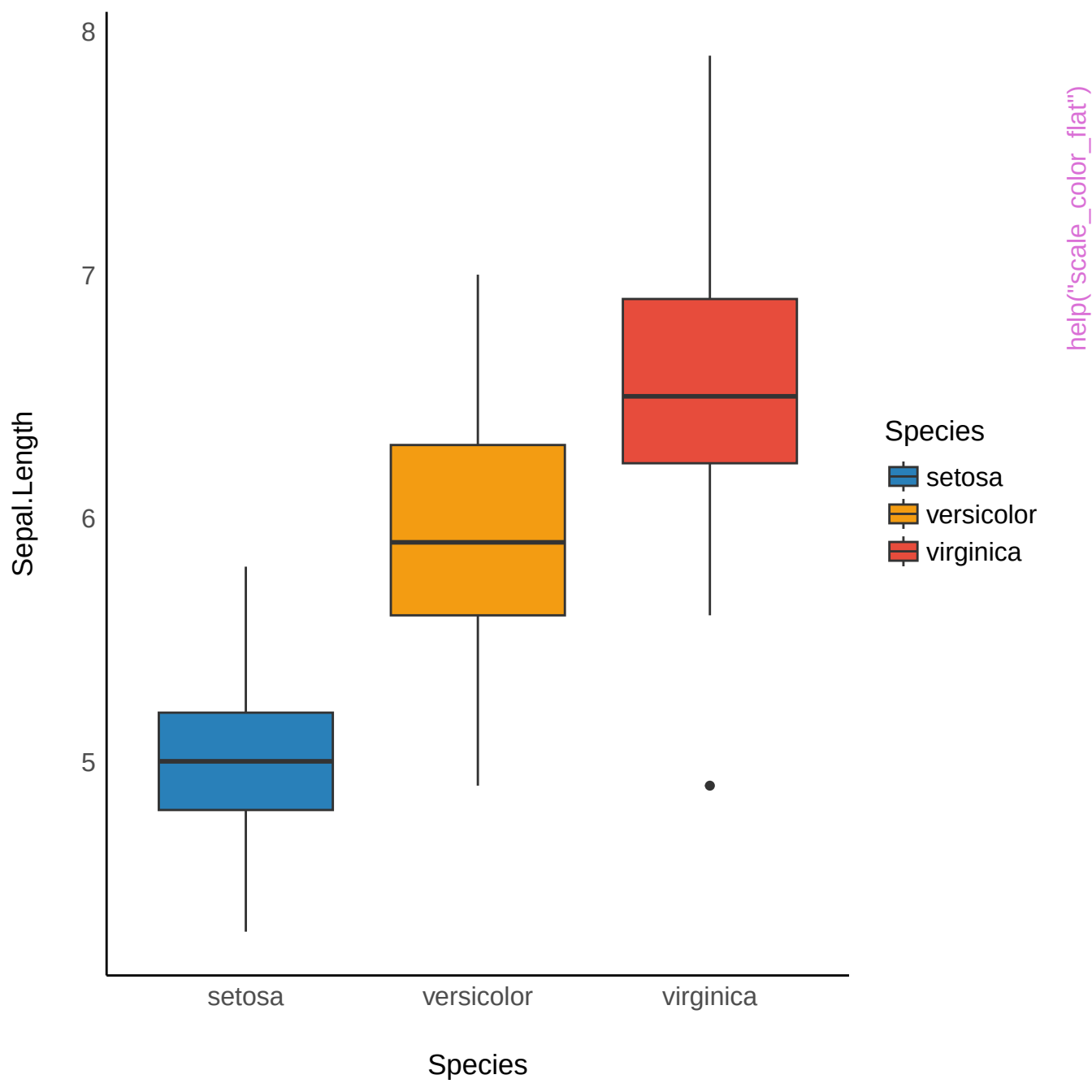

Posterior Predictive Check
Model−predicted lines should resemble observed data line
0.5
0.4
0.3
0.2
0.1
0.0
Density
4
5
6
7
8
Sepal.Length
Observed data
Model−predicted data
help("print.see_performance_pp_check")

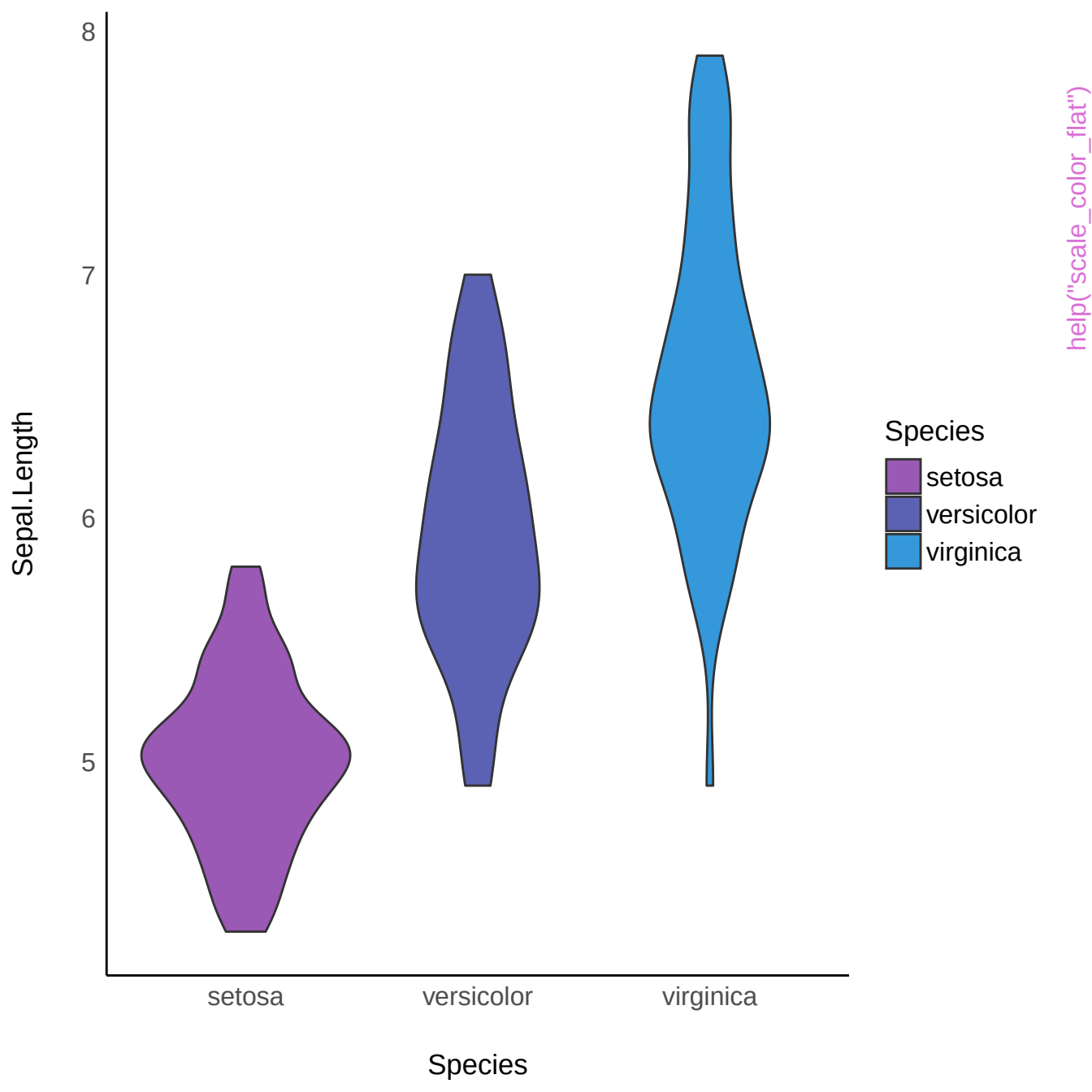

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_bluebrown")

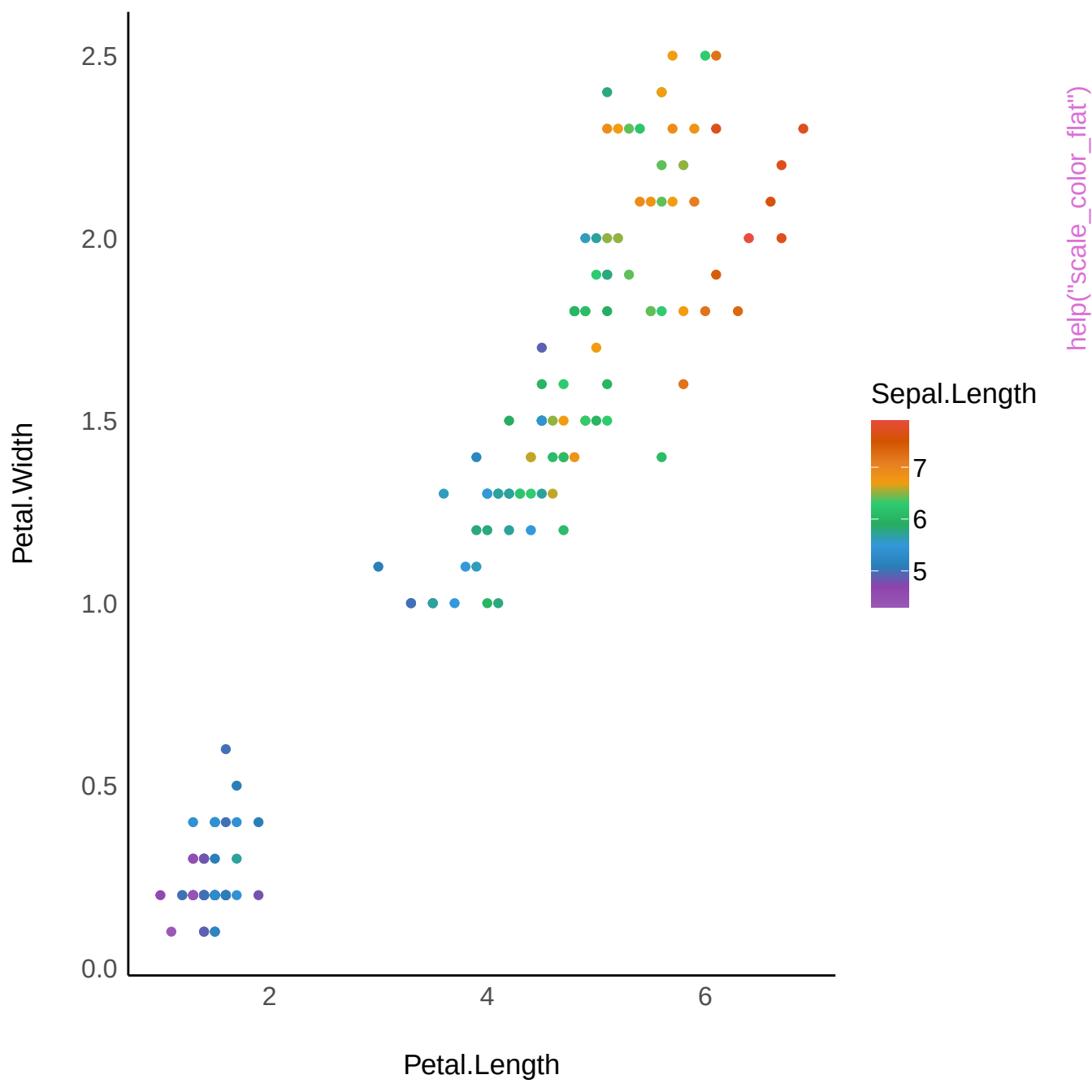

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_colorhex")

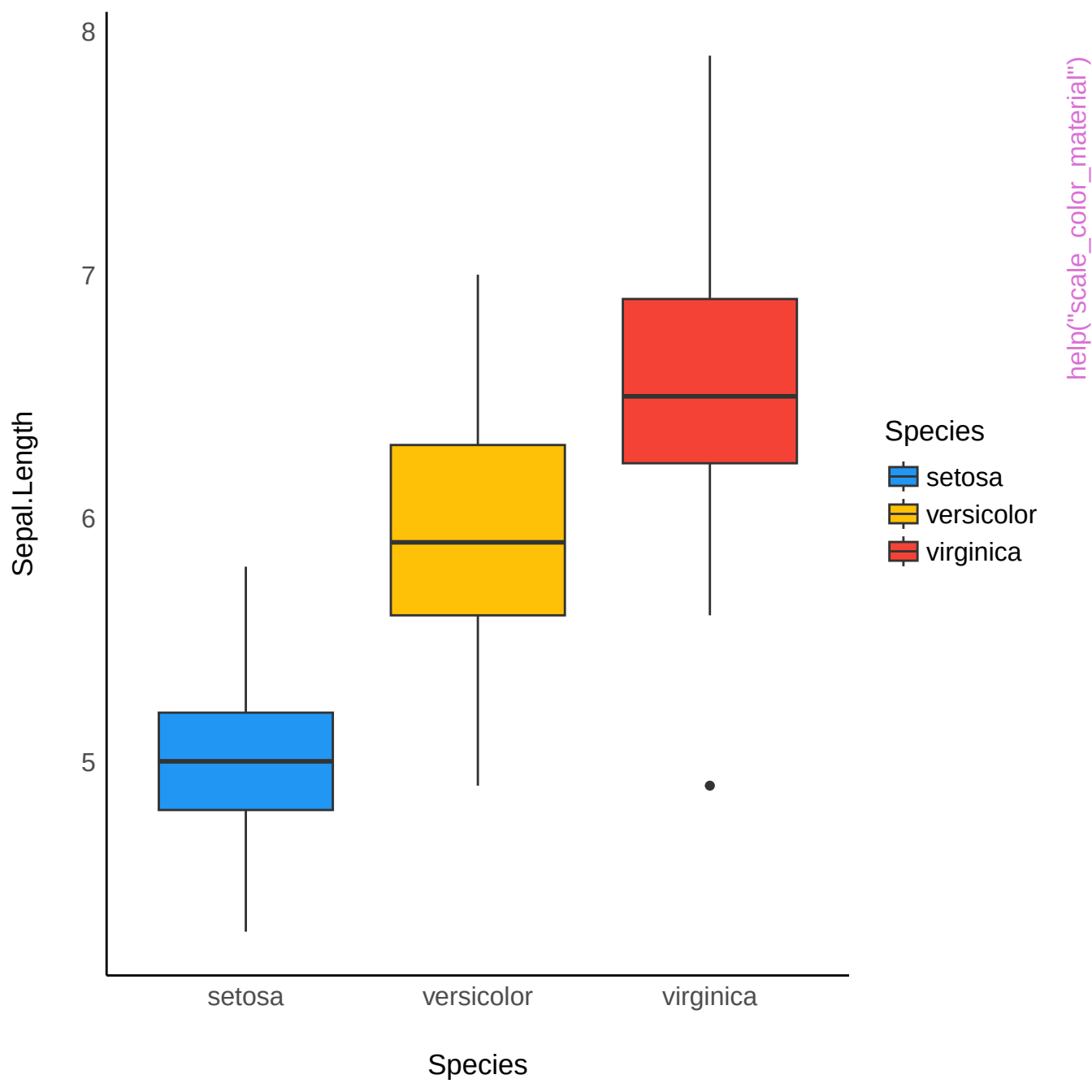

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_colorhex")

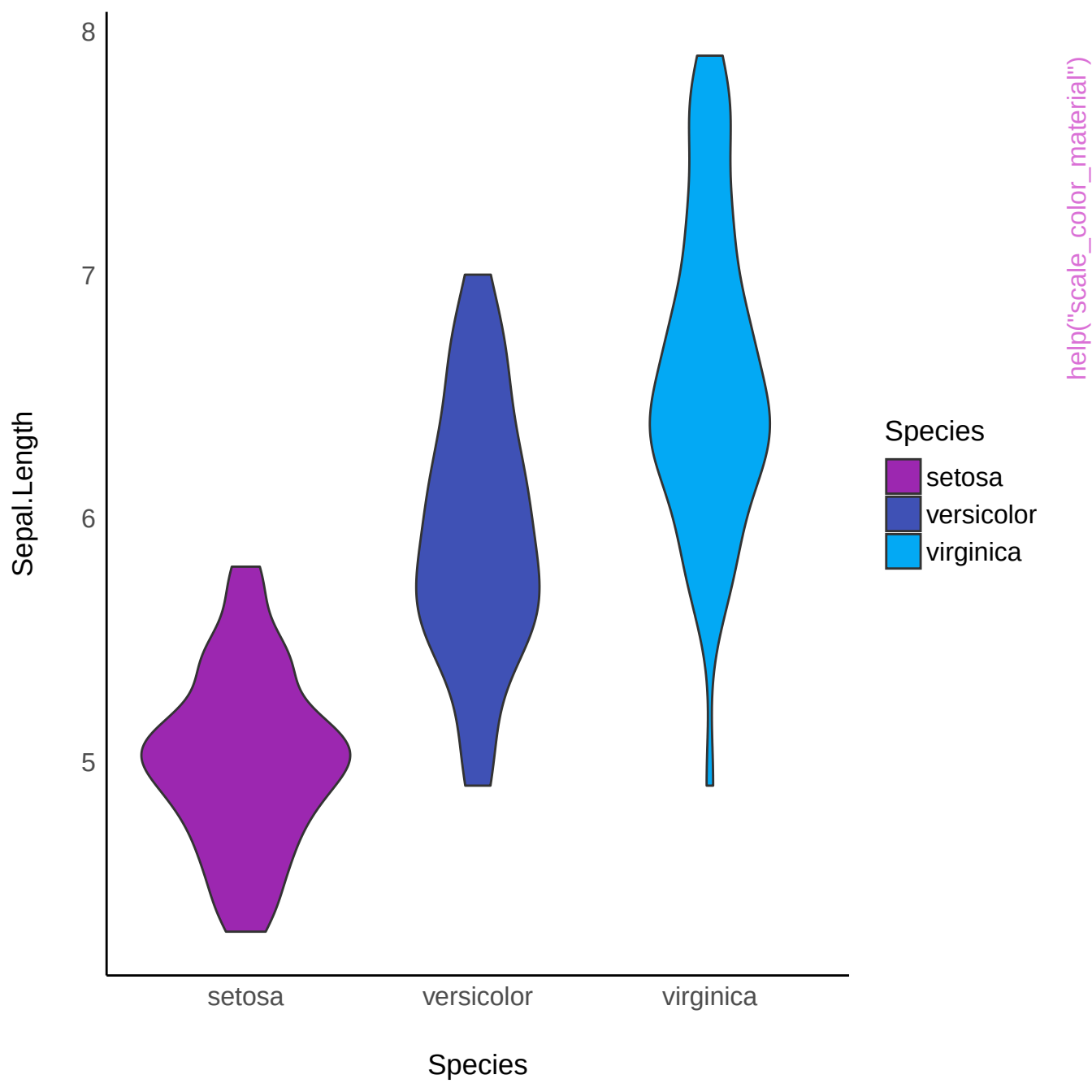

help("scale_color_colorhex")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

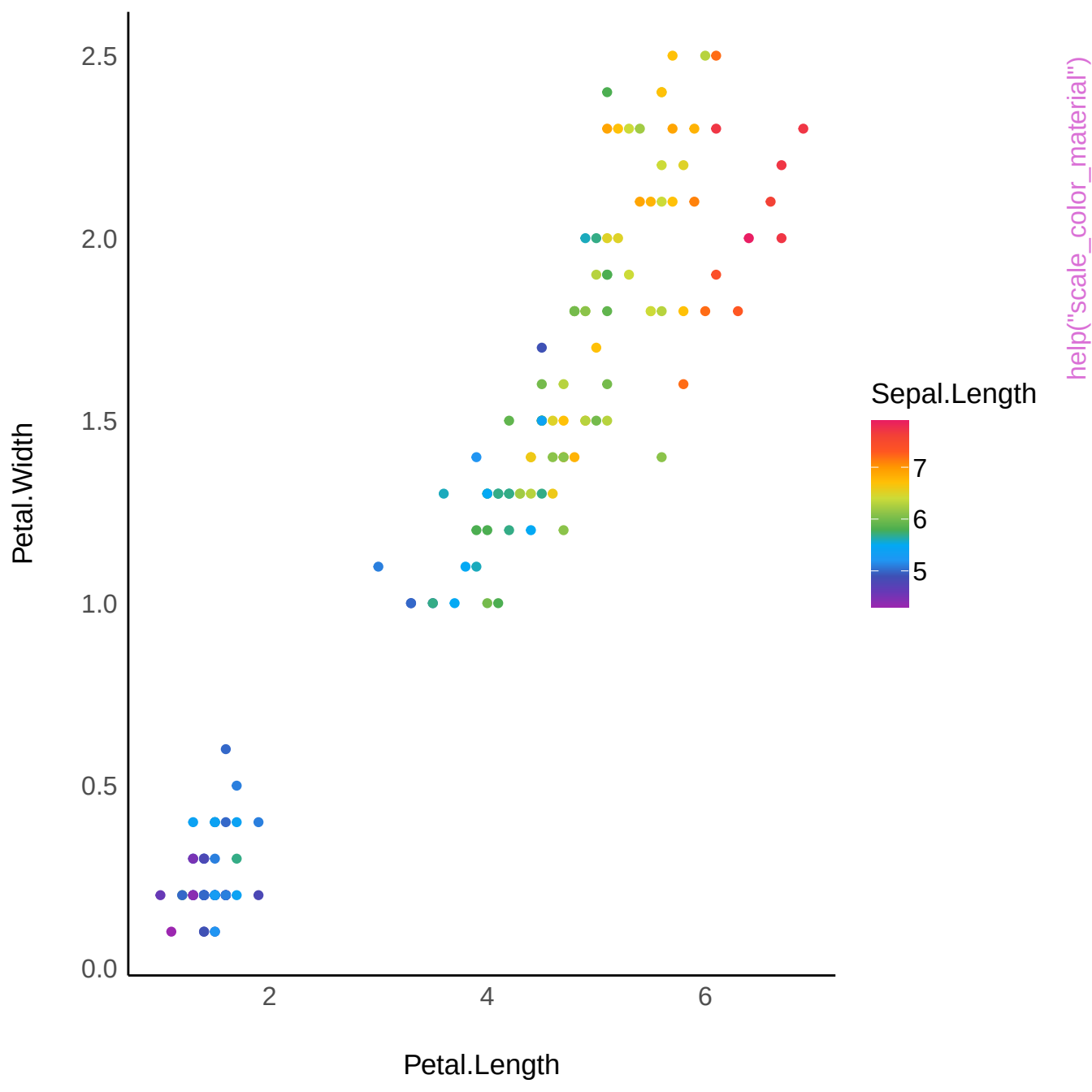

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_flat")

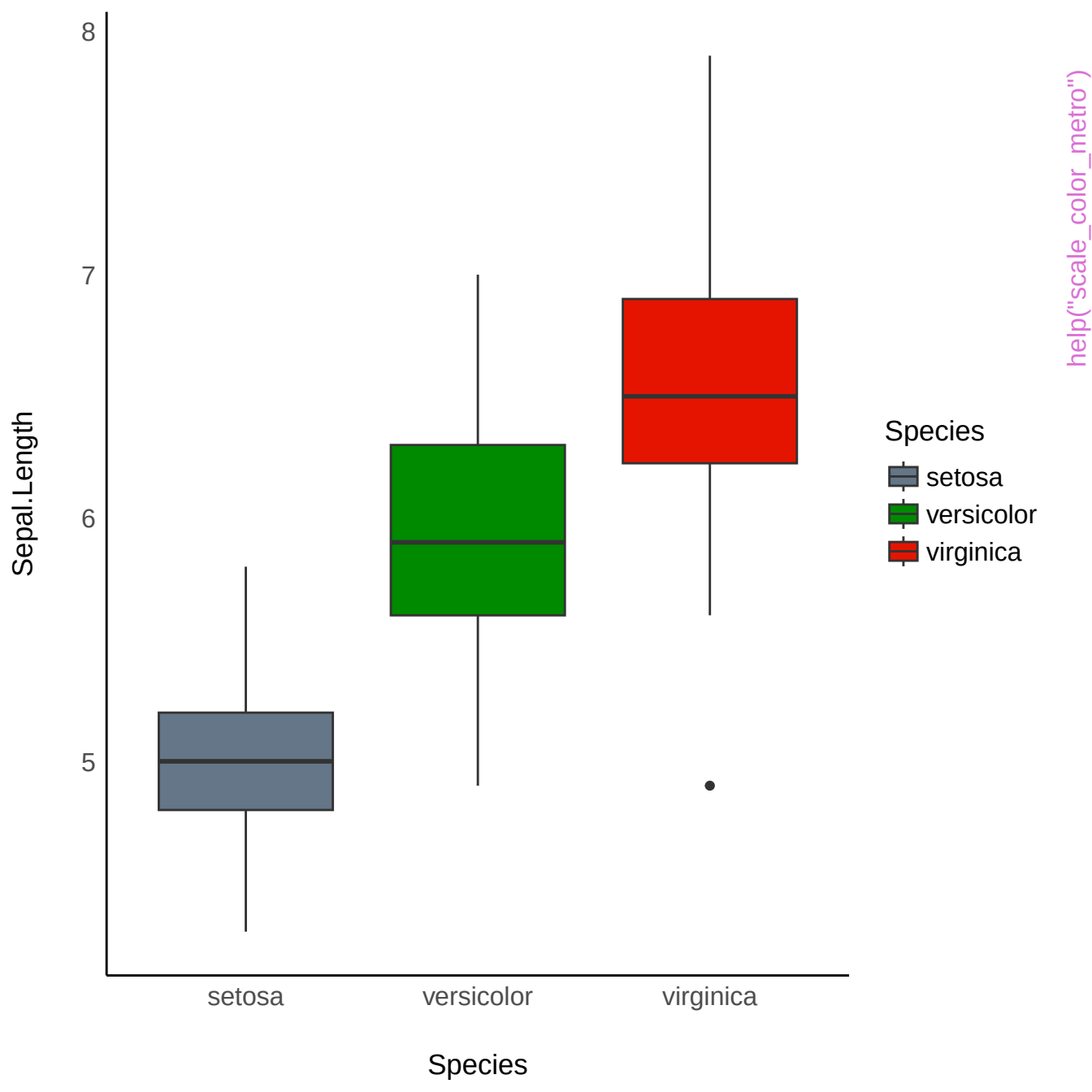

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_flat")

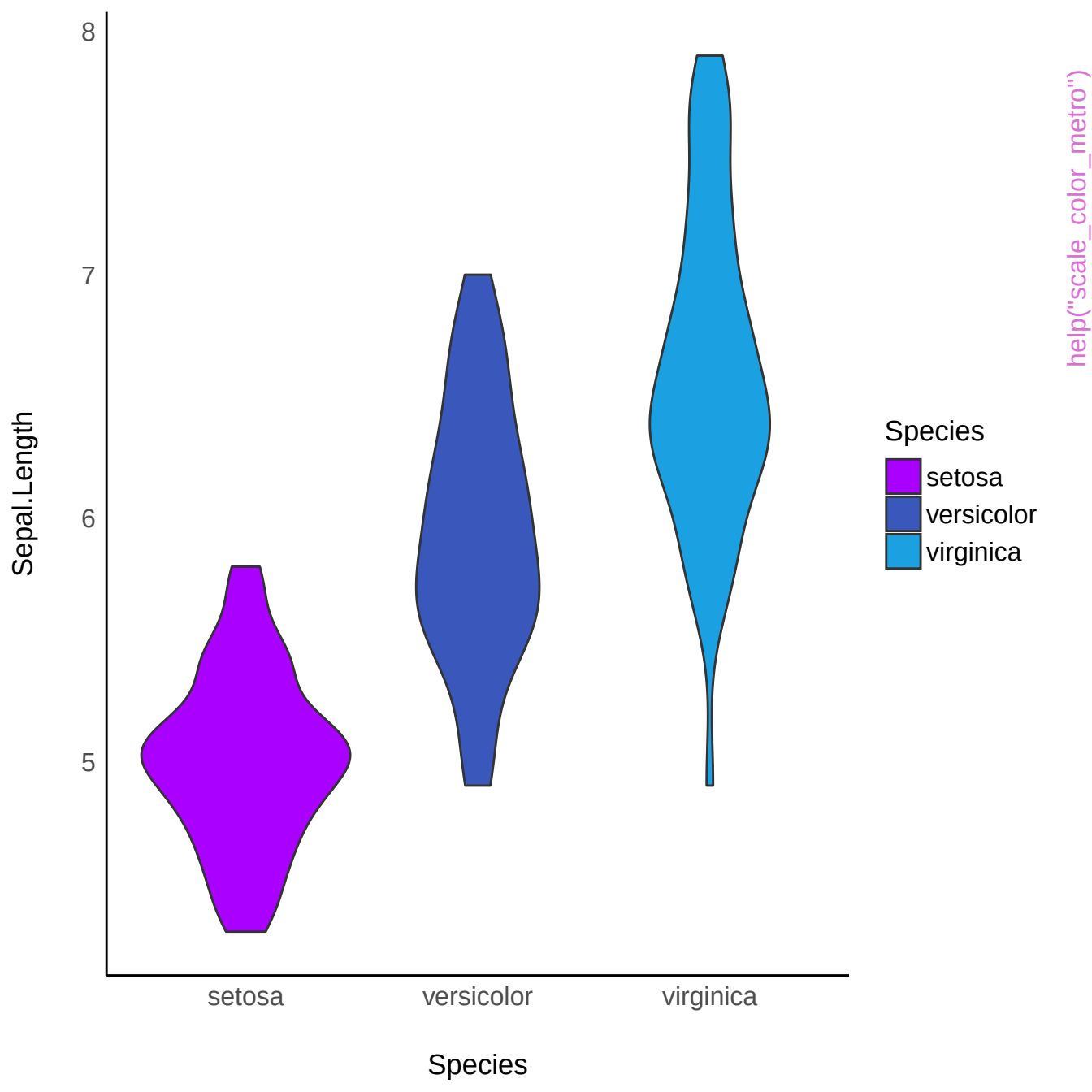

help("scale_color_flat")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

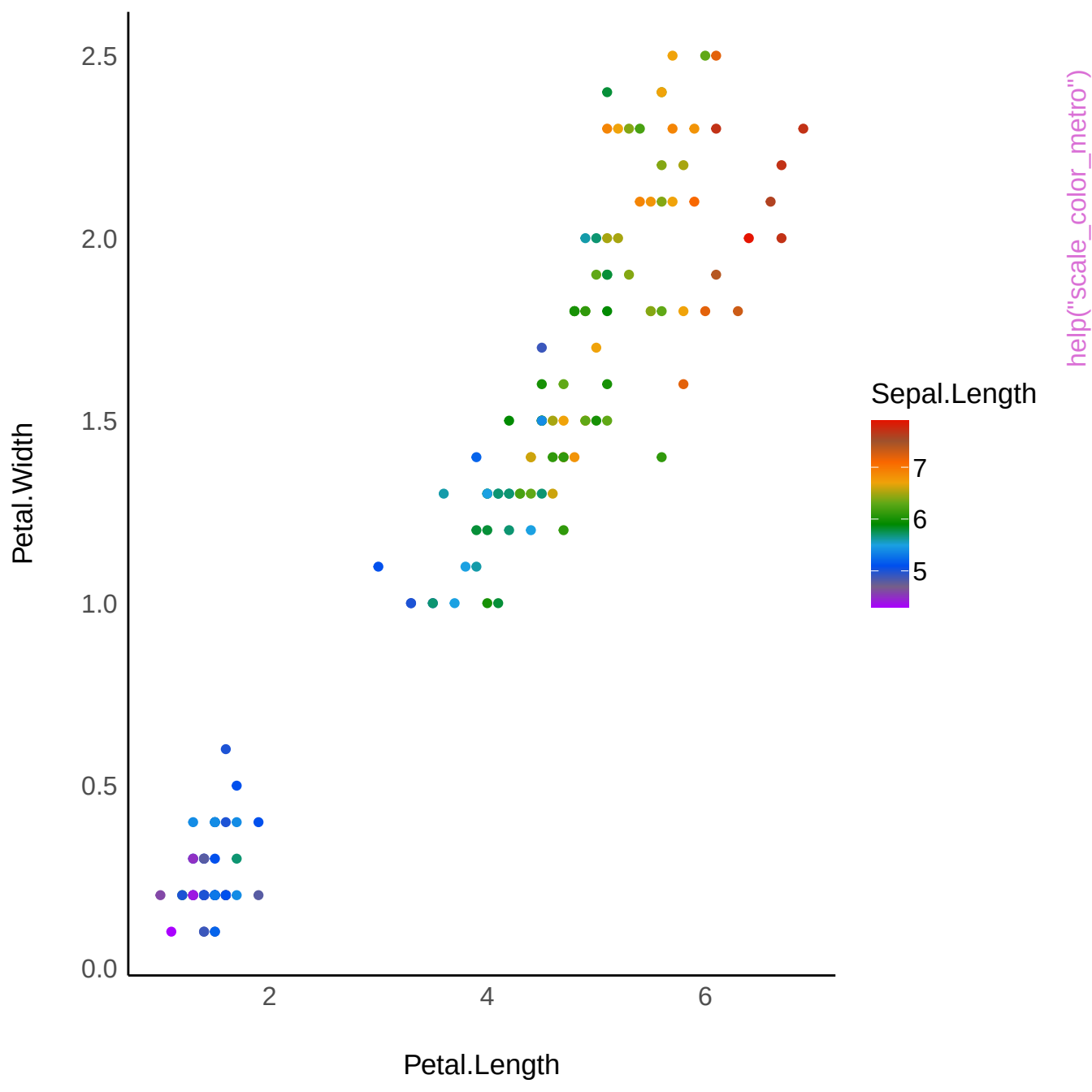

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_material")

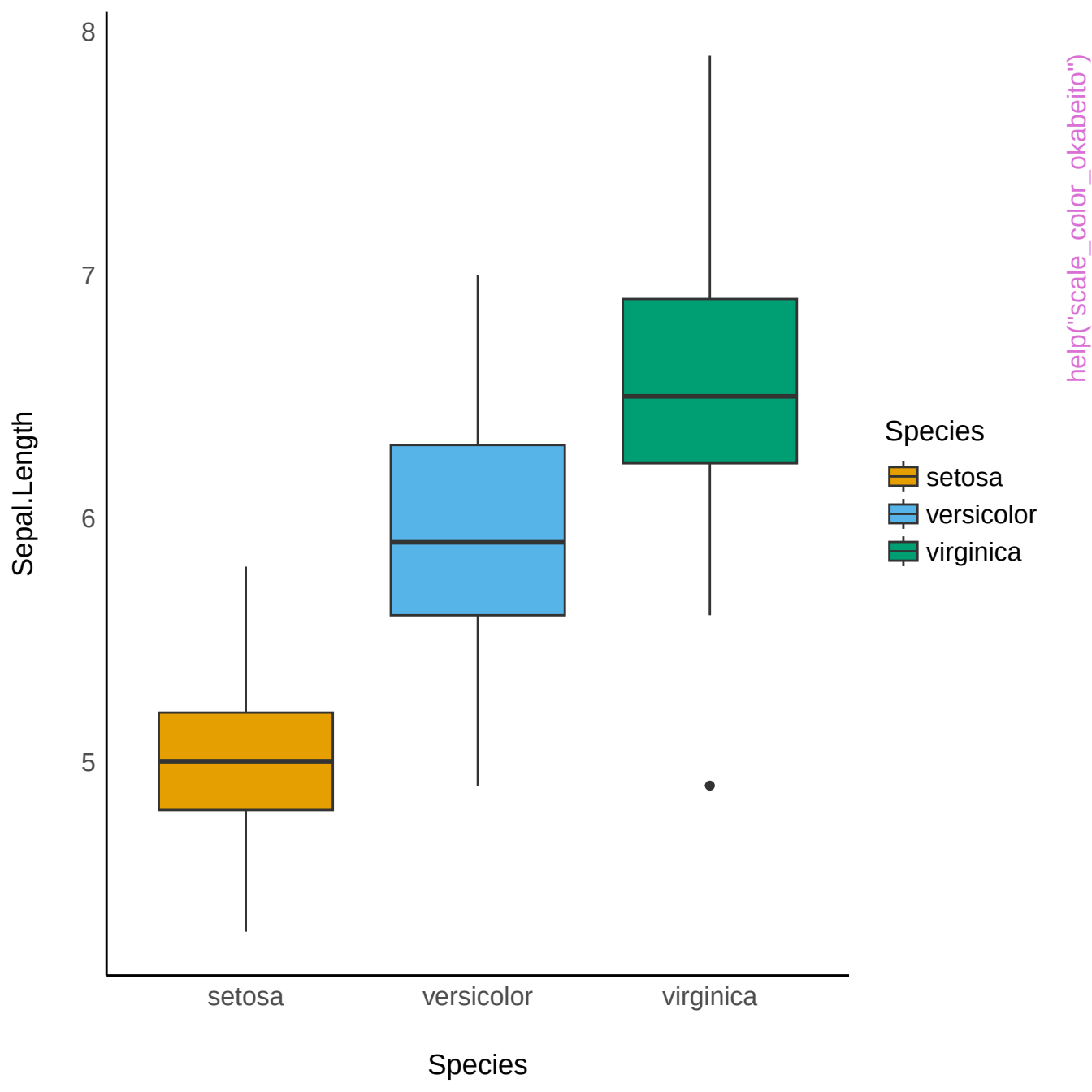

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_material")

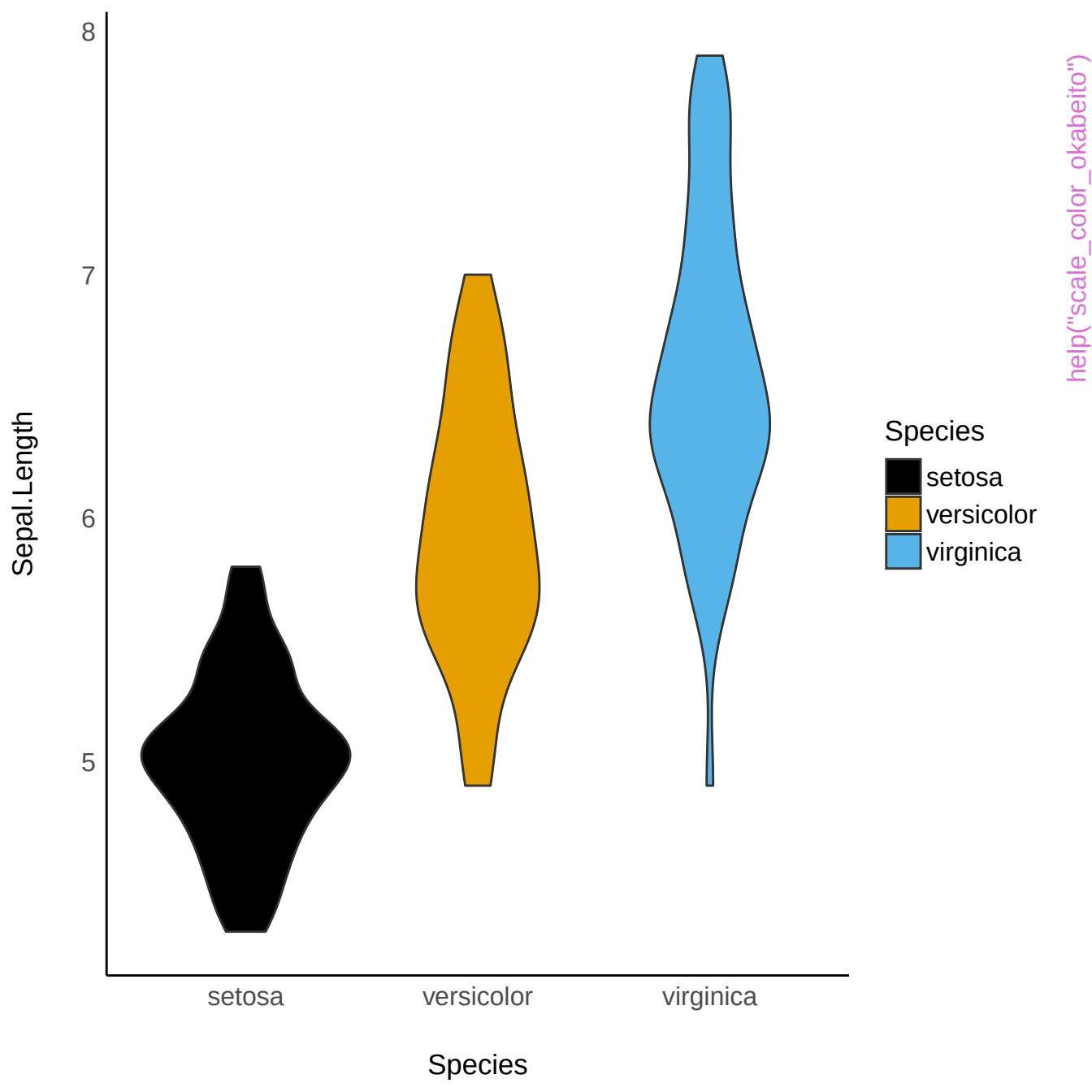

Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length
Sepal.Length
7
6
5
help("scale_color_material")

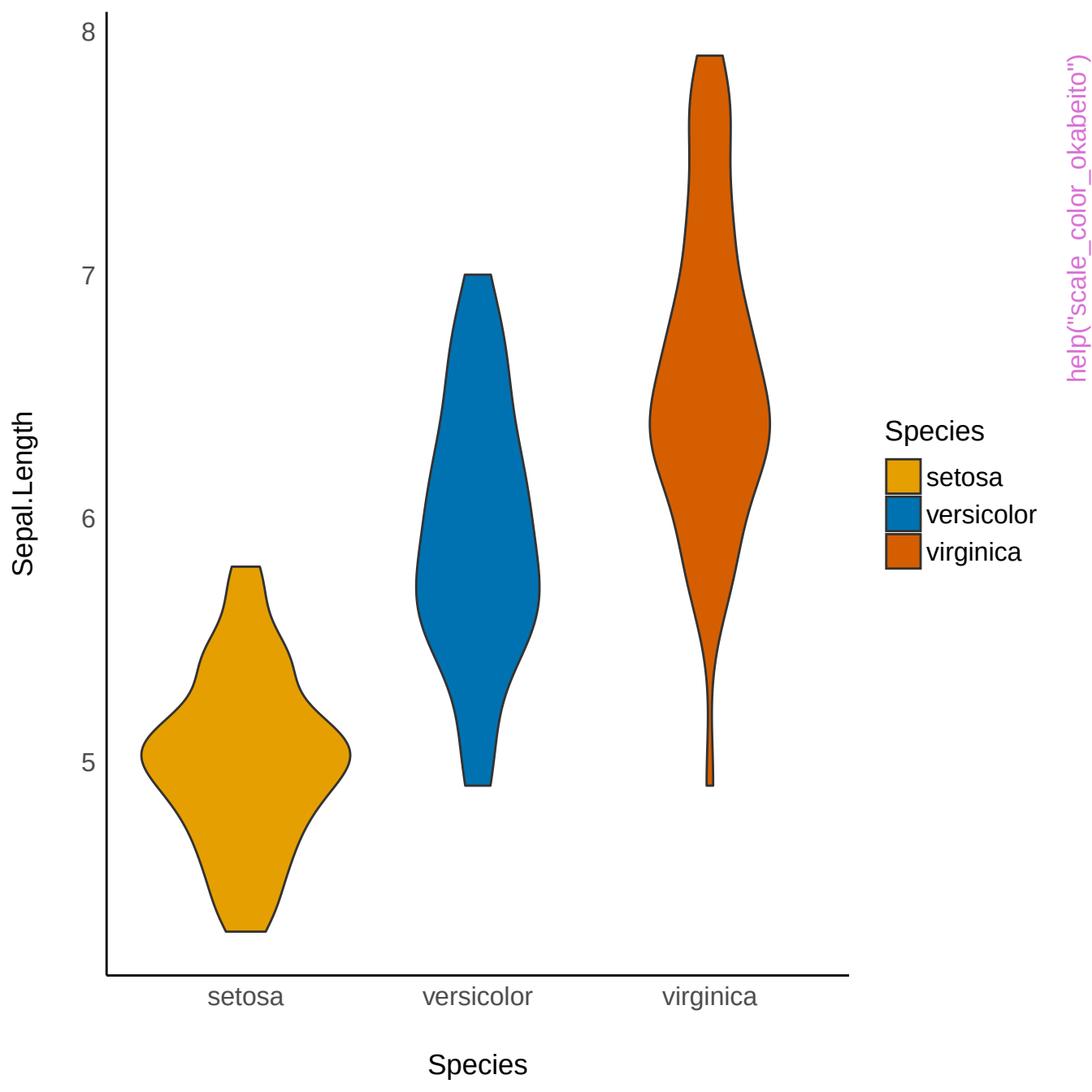

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_metro")

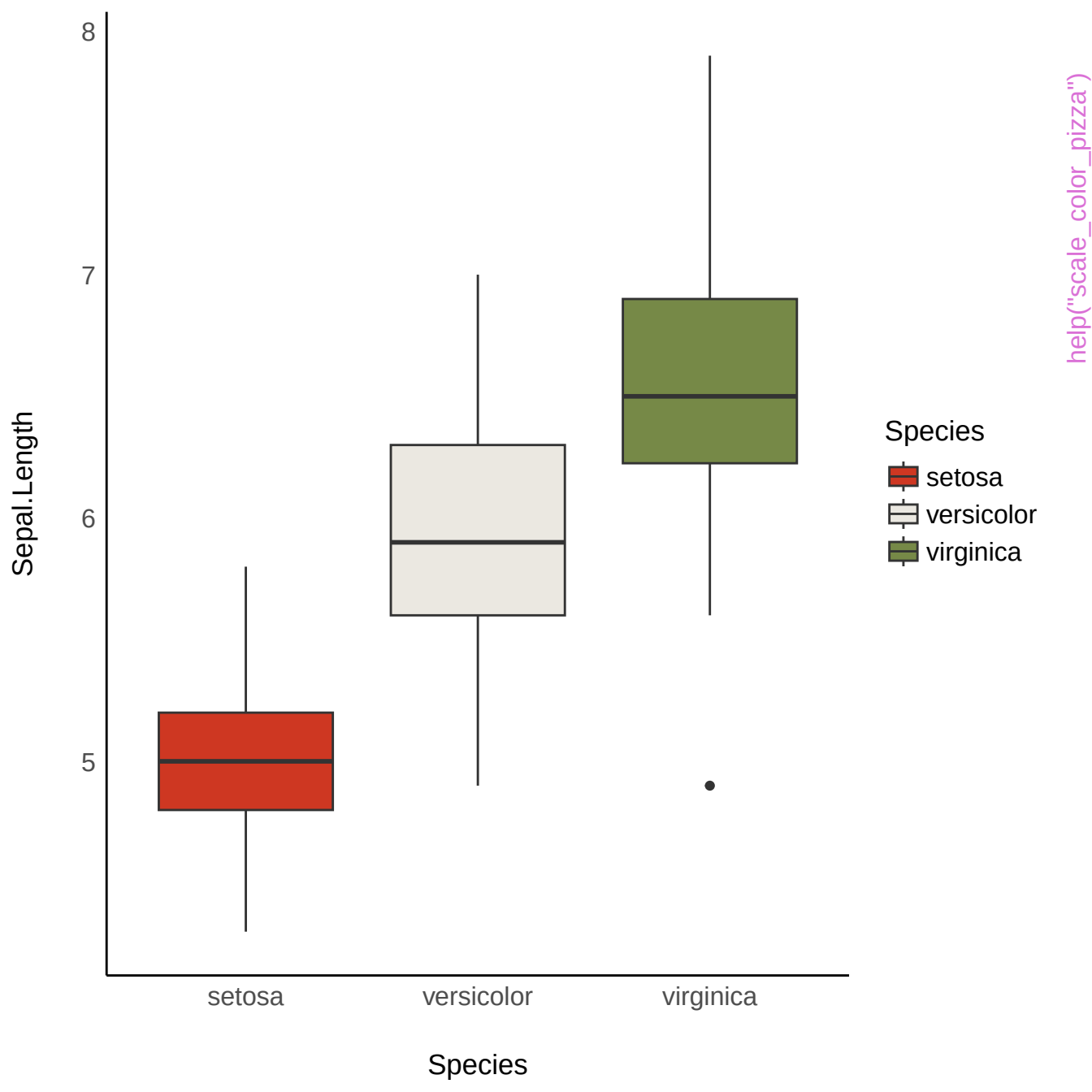

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_metro")

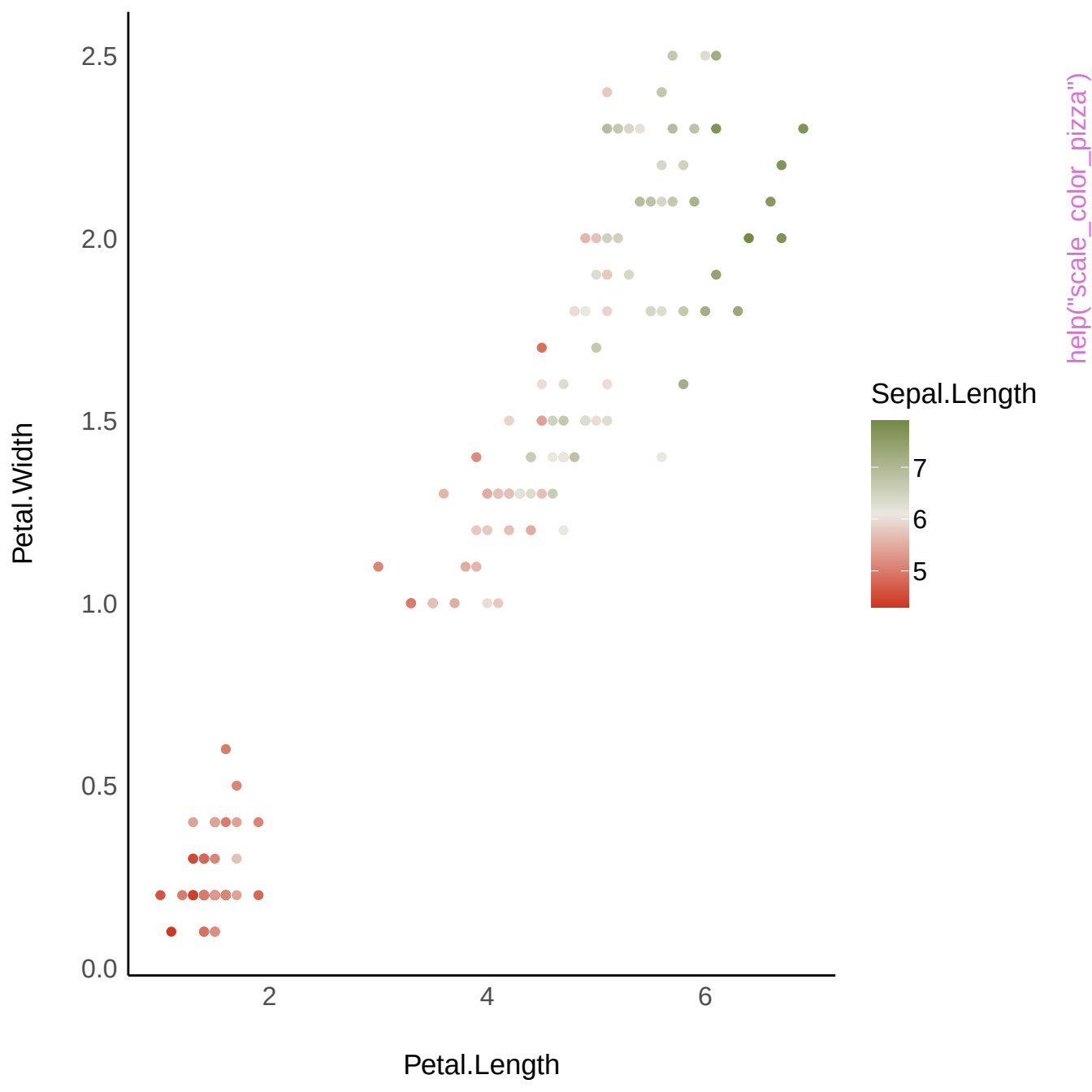

Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length
Sepal.Length
7
6
5
help("scale_color_metro")

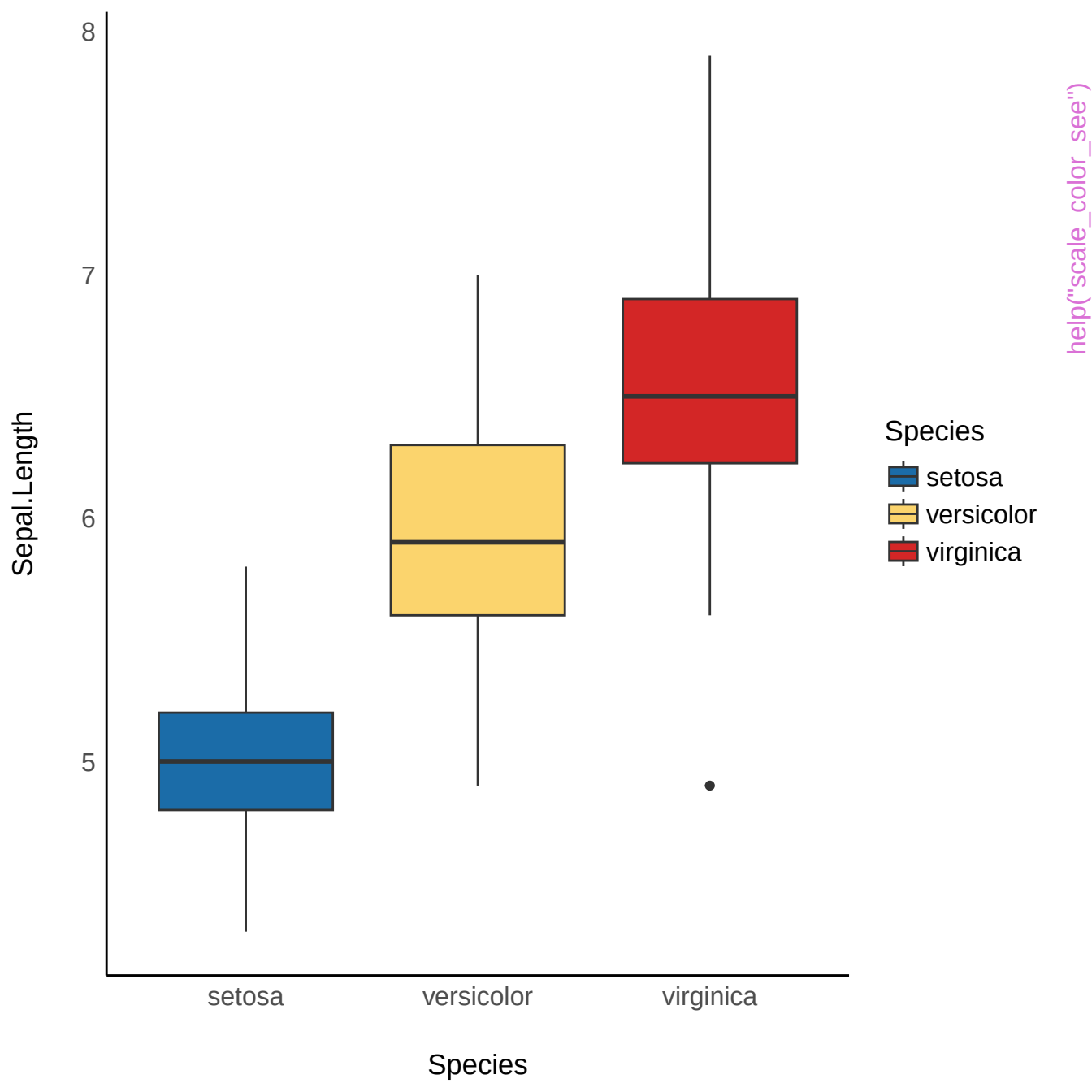

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_okabeito")

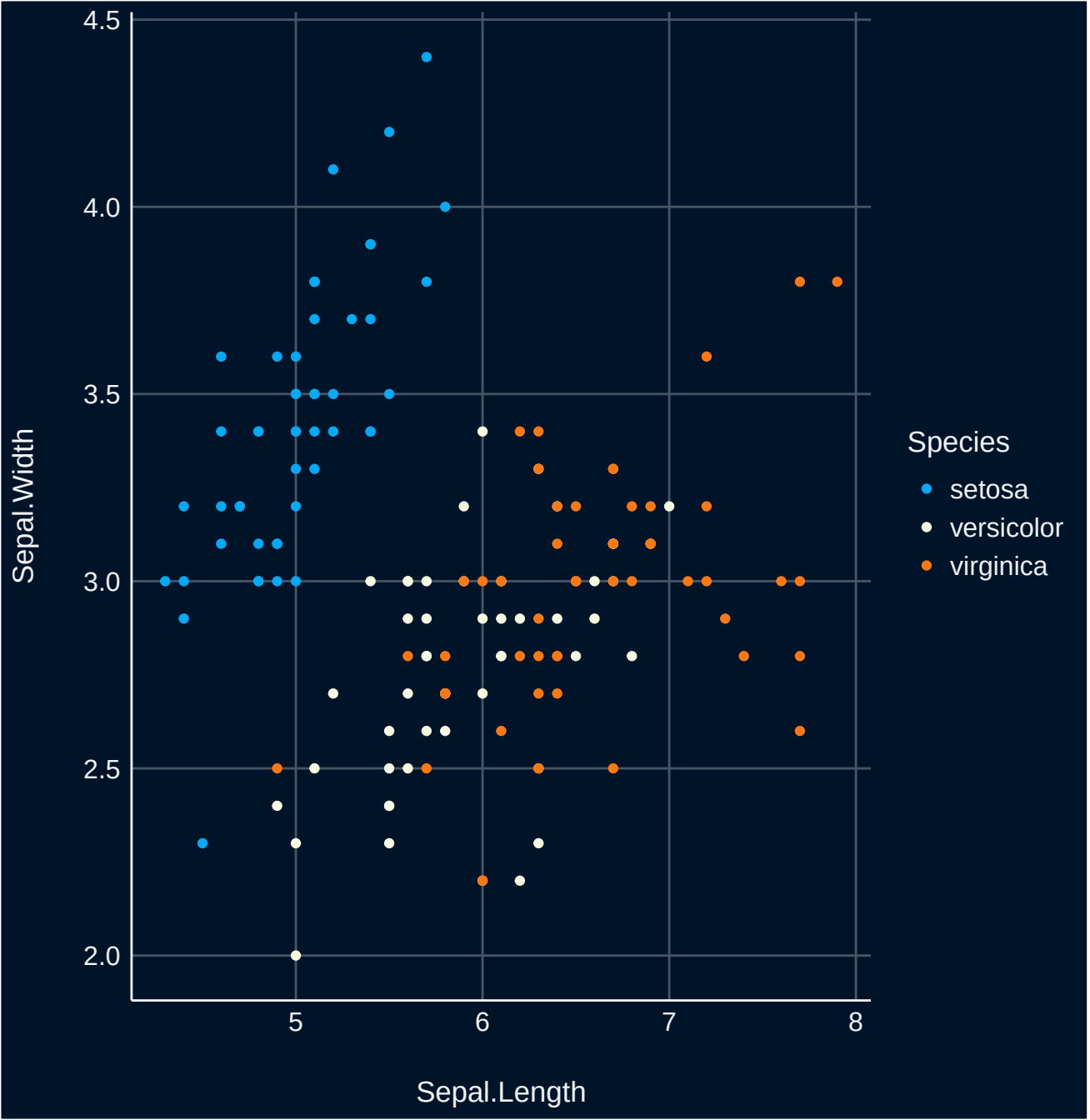

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_okabeito")

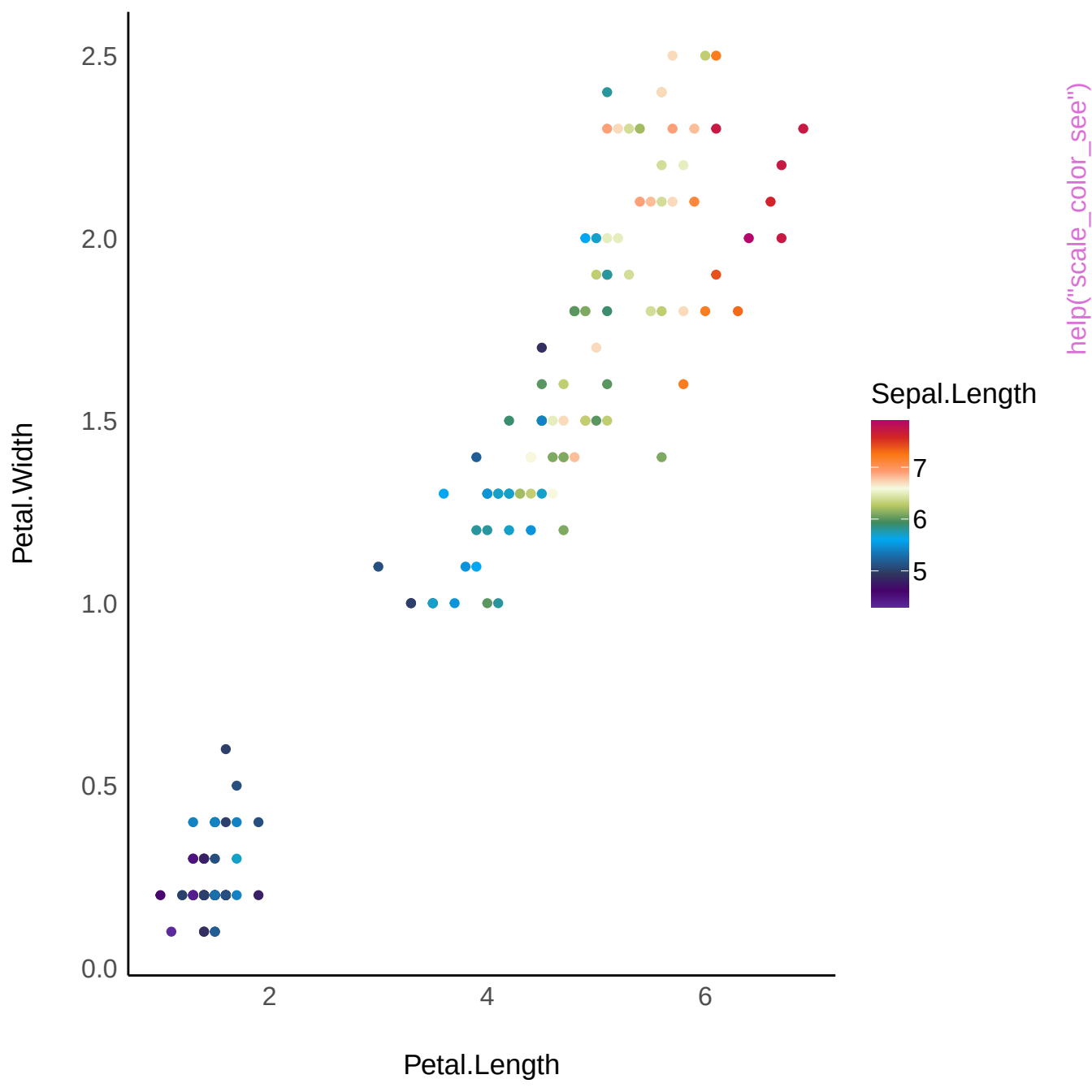

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_okabeito")

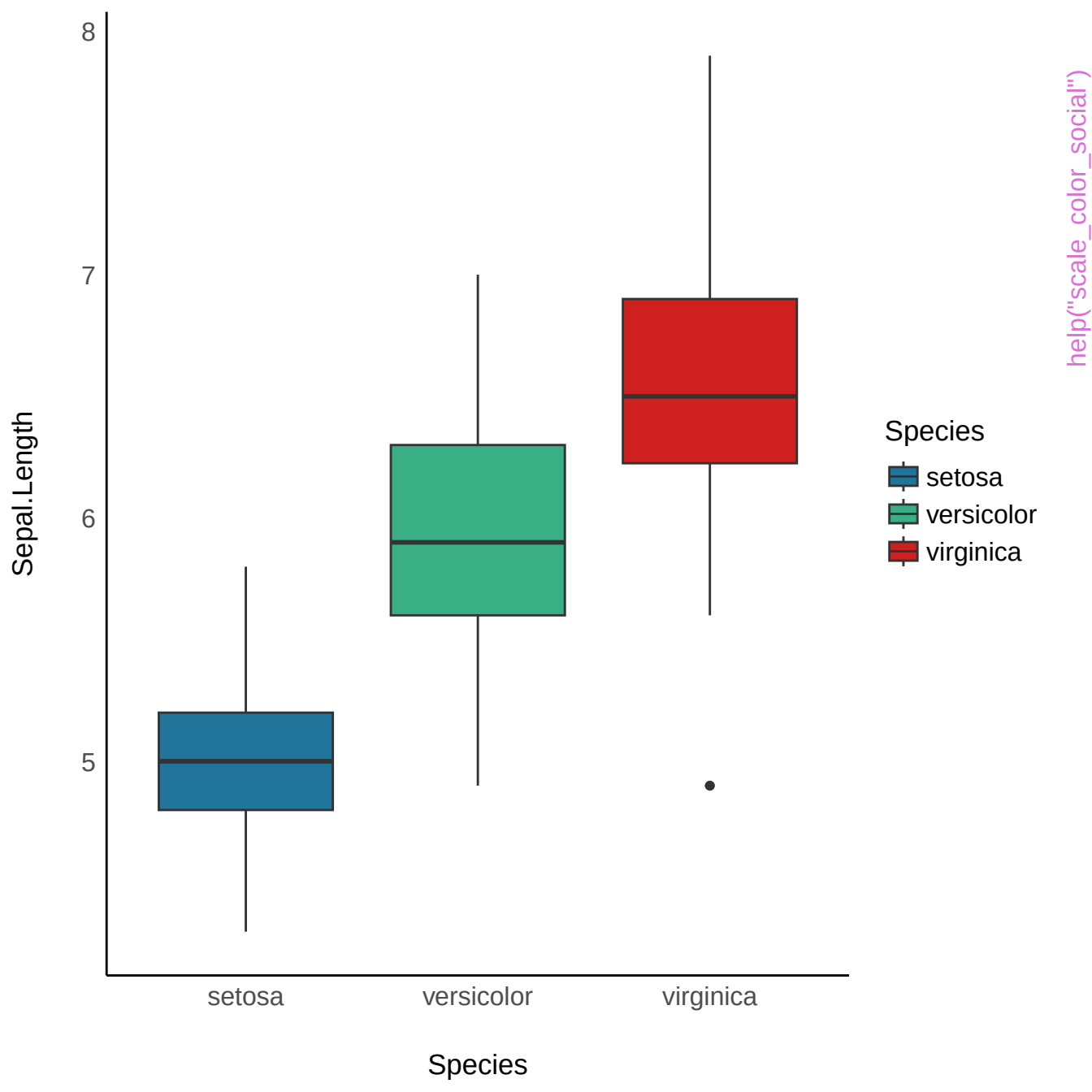

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_pizza")

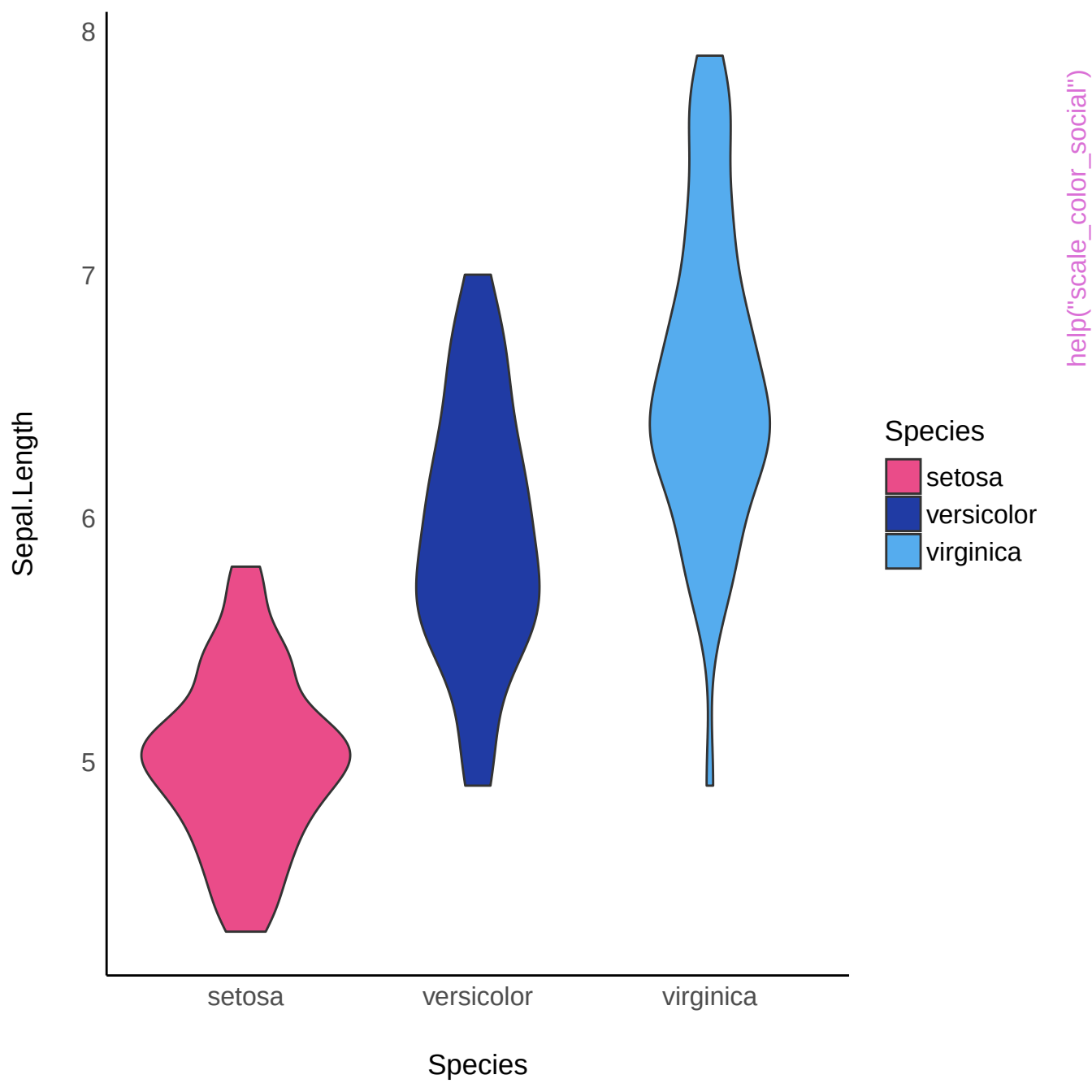

help("scale_color_pizza")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

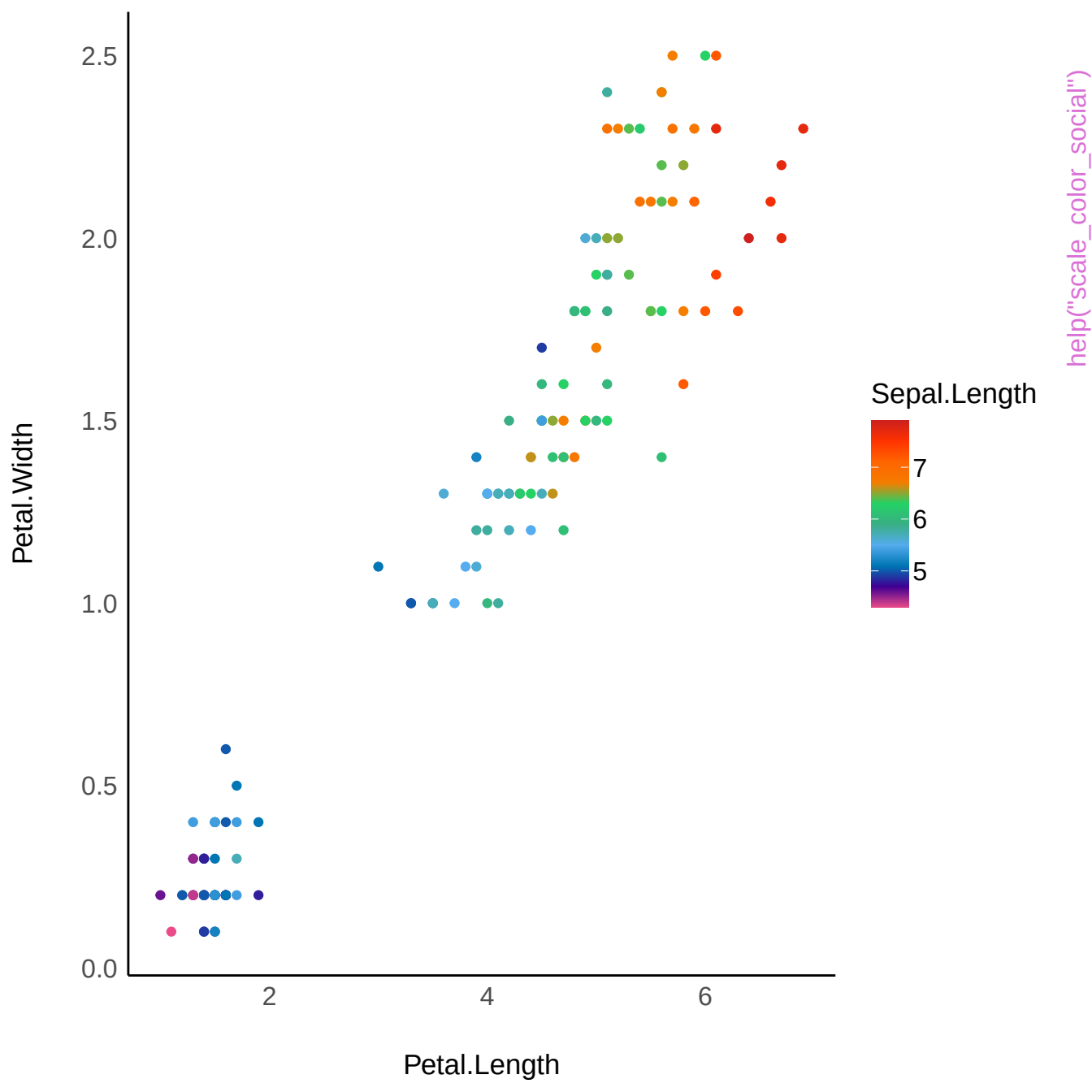

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_see")

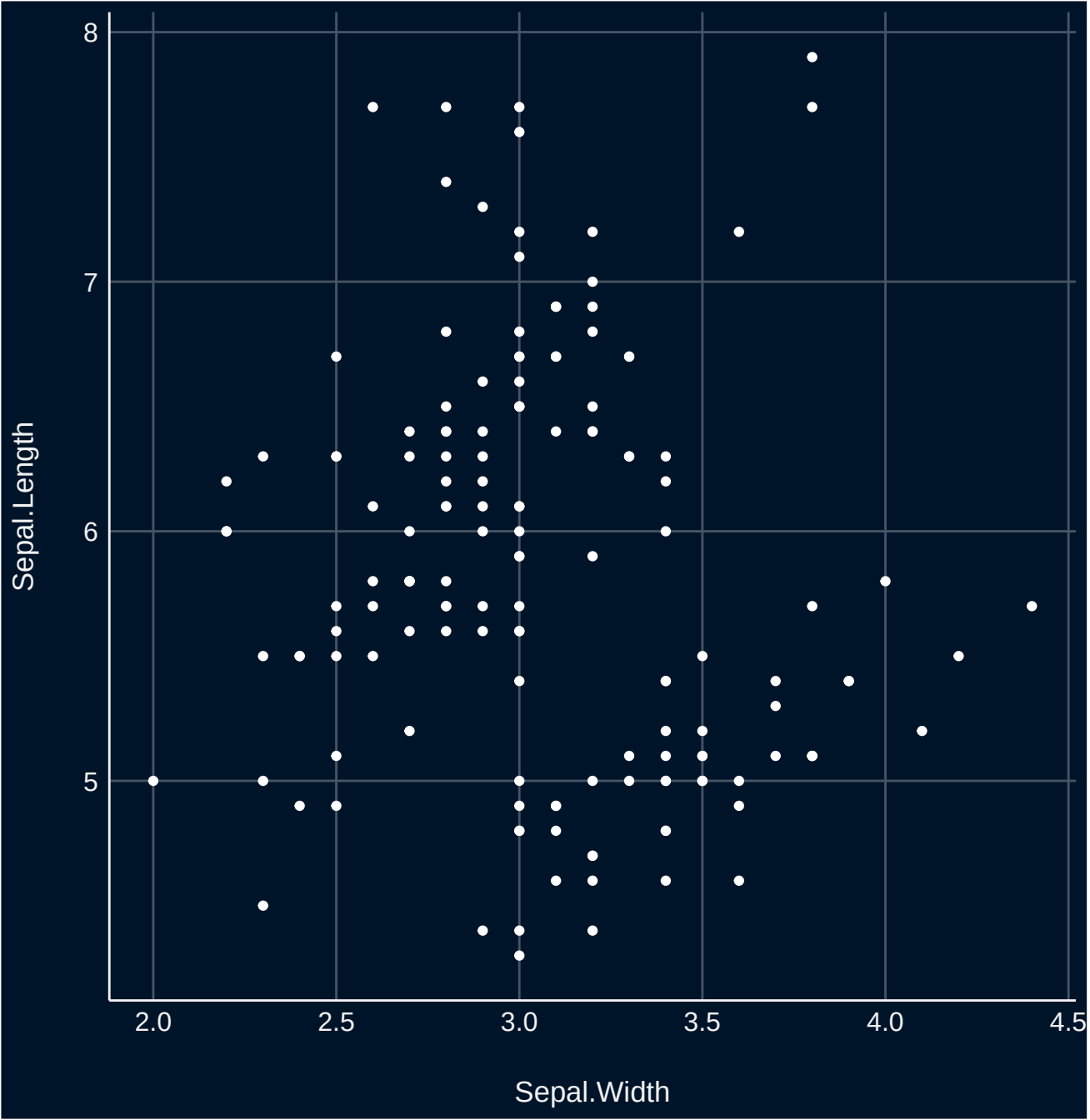

4.5
4.0
3.5
3.0
2.5
2.0
Sepal.Width
5
6
7
8
Sepal.Length
Species
setosa
versicolor
virginica
help("scale_color_see")

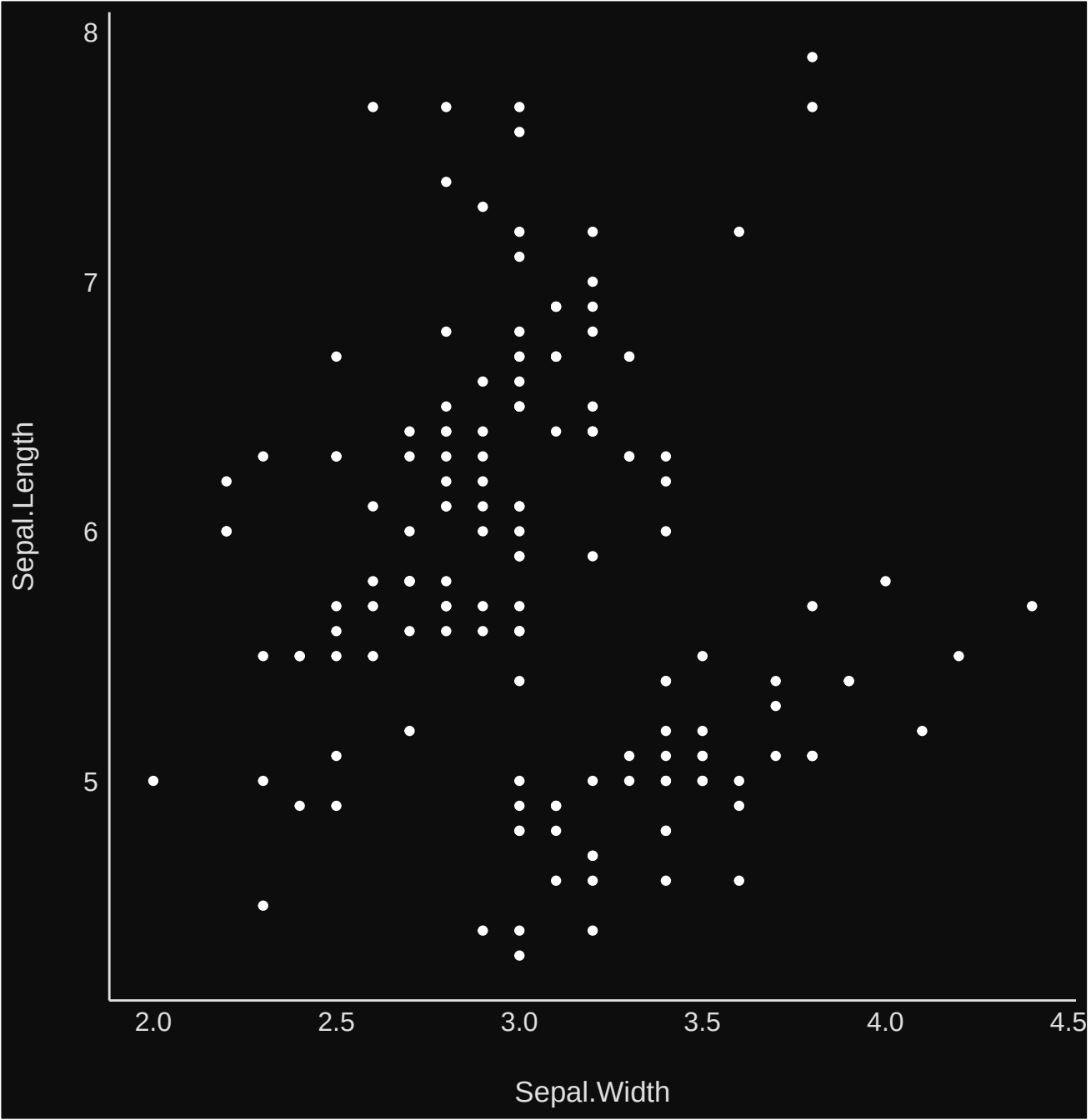

help("scale_color_see")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

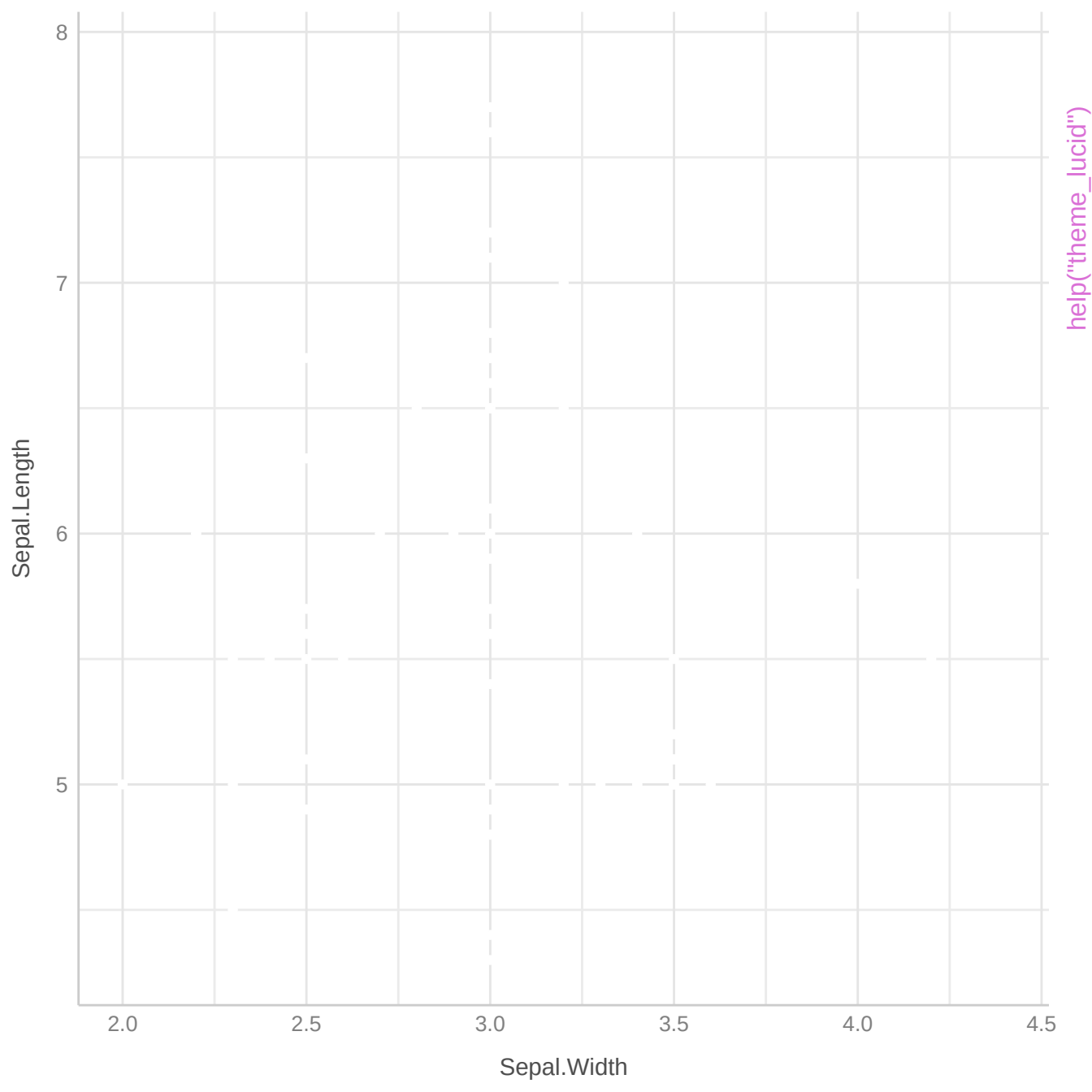

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_social")

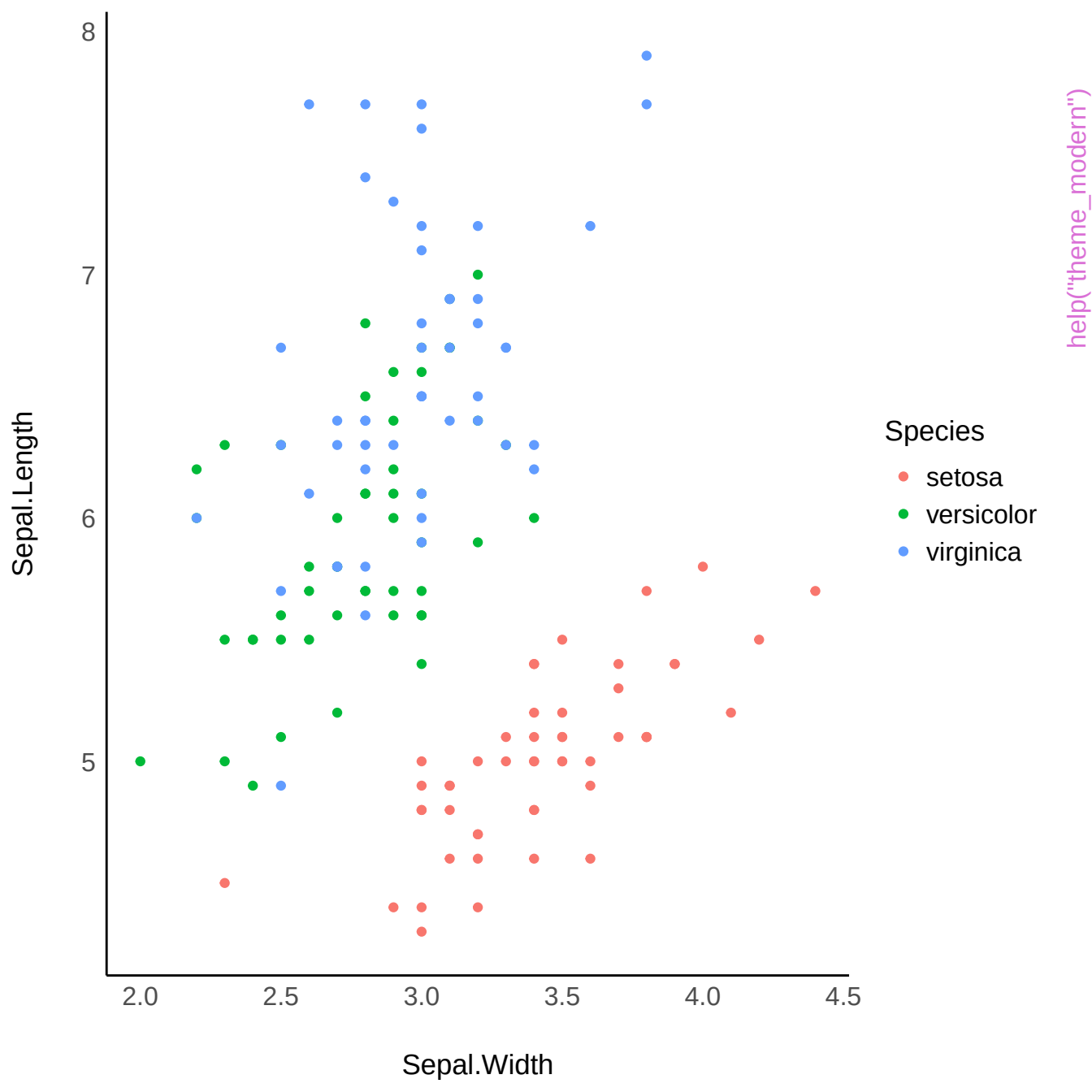

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_social")

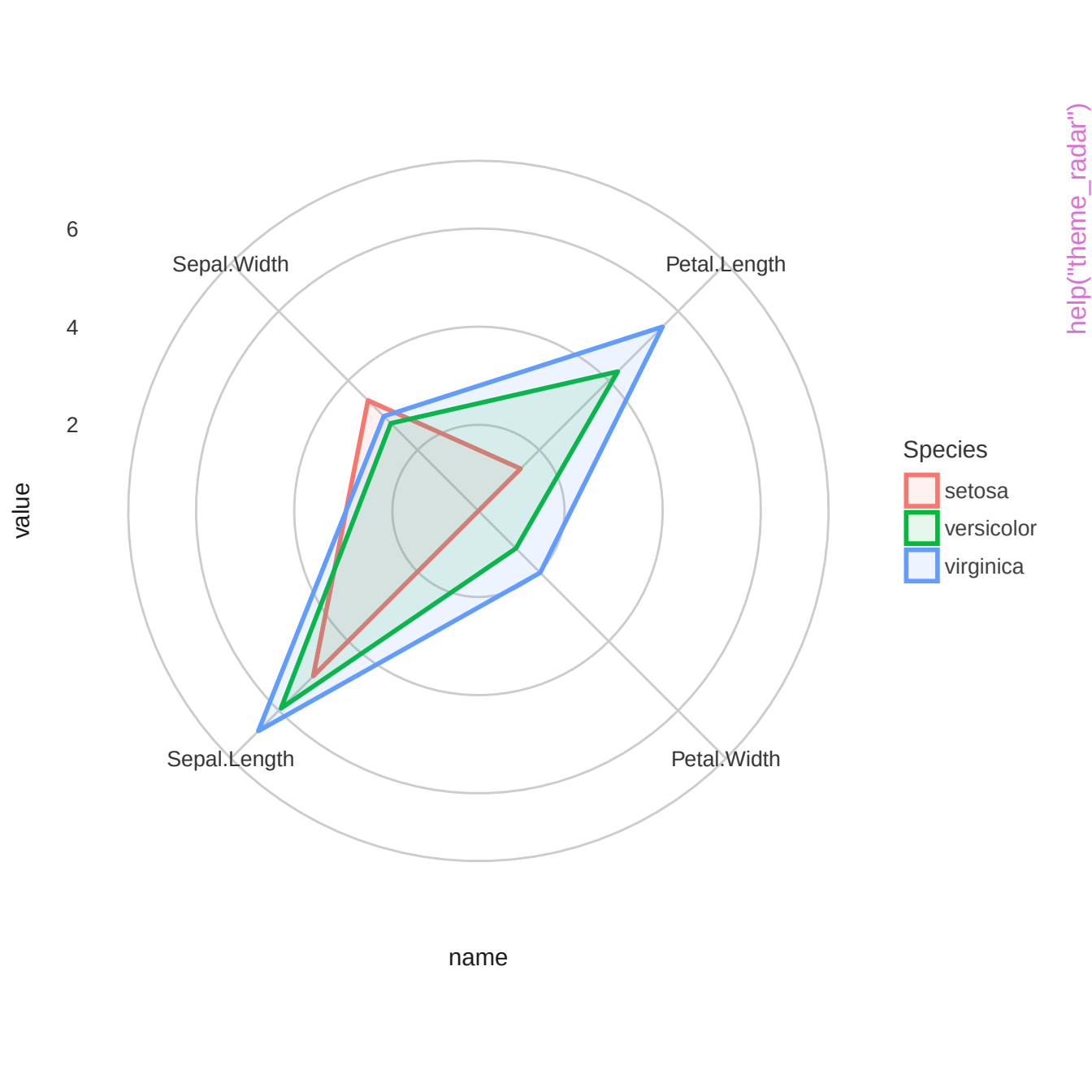

help("scale_color_social")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length


8
7
6
5
Sepal.Length
2.0
2.5
3.0
3.5
4.0
4.5
Sepal.Width
help("theme_abyss")


8
7
6
5
Sepal.Length
2.0
2.5
3.0
3.5
4.0
4.5
Sepal.Width
help("theme_blackboard")


8
7
6
5
Sepal.Length
2.0
2.5
3.0
3.5
4.0
4.5
Sepal.Width
help("theme_lucid")


8
7
6
5
Sepal.Length
2.0
2.5
3.0
3.5
4.0
4.5
Sepal.Width
Species
setosa
versicolor
virginica
help("theme_modern")


6
4
2
value
Sepal.Width
Petal.Length
Sepal.Length
Petal.Width
name
Species
setosa
versicolor
virginica
help("theme_radar")