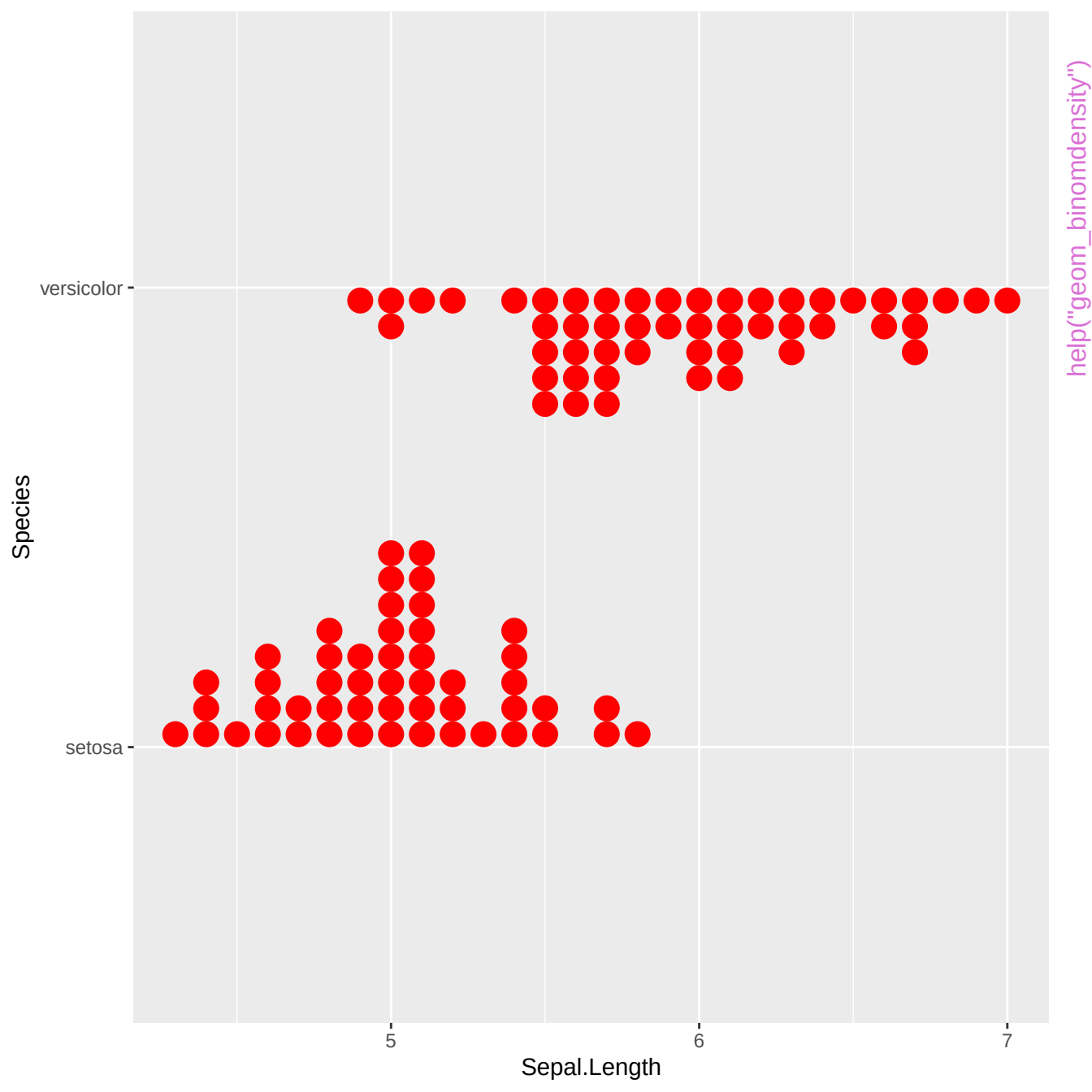
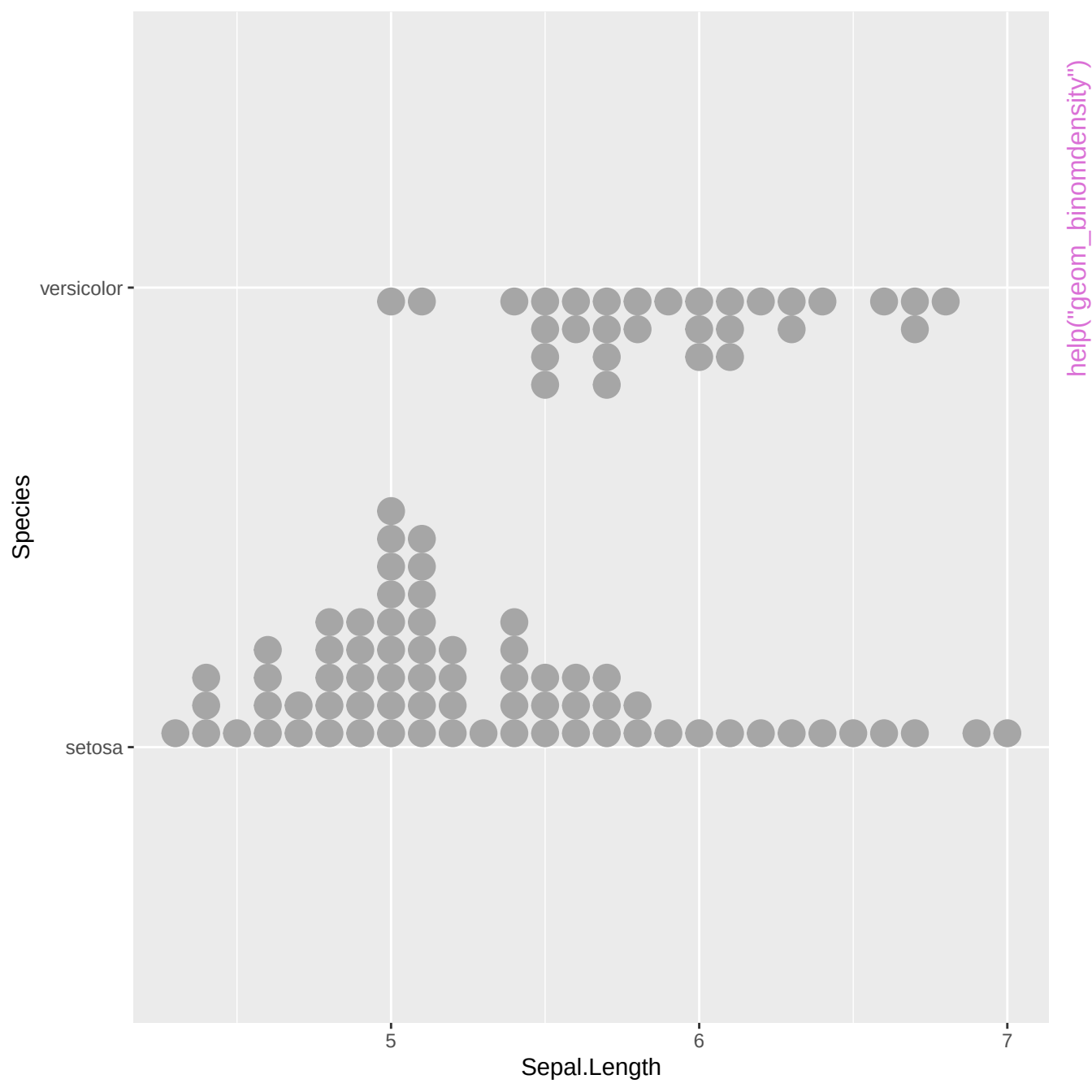
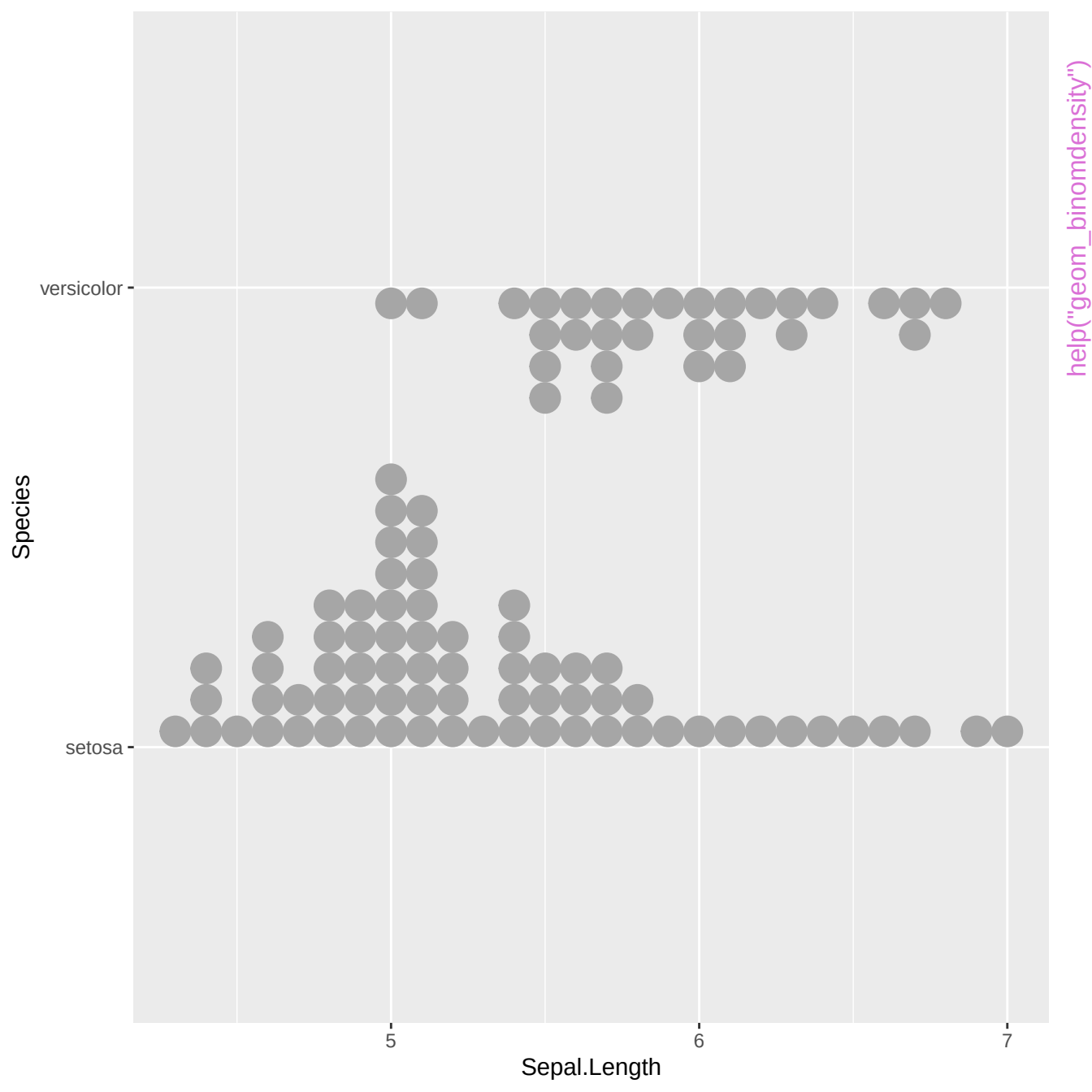
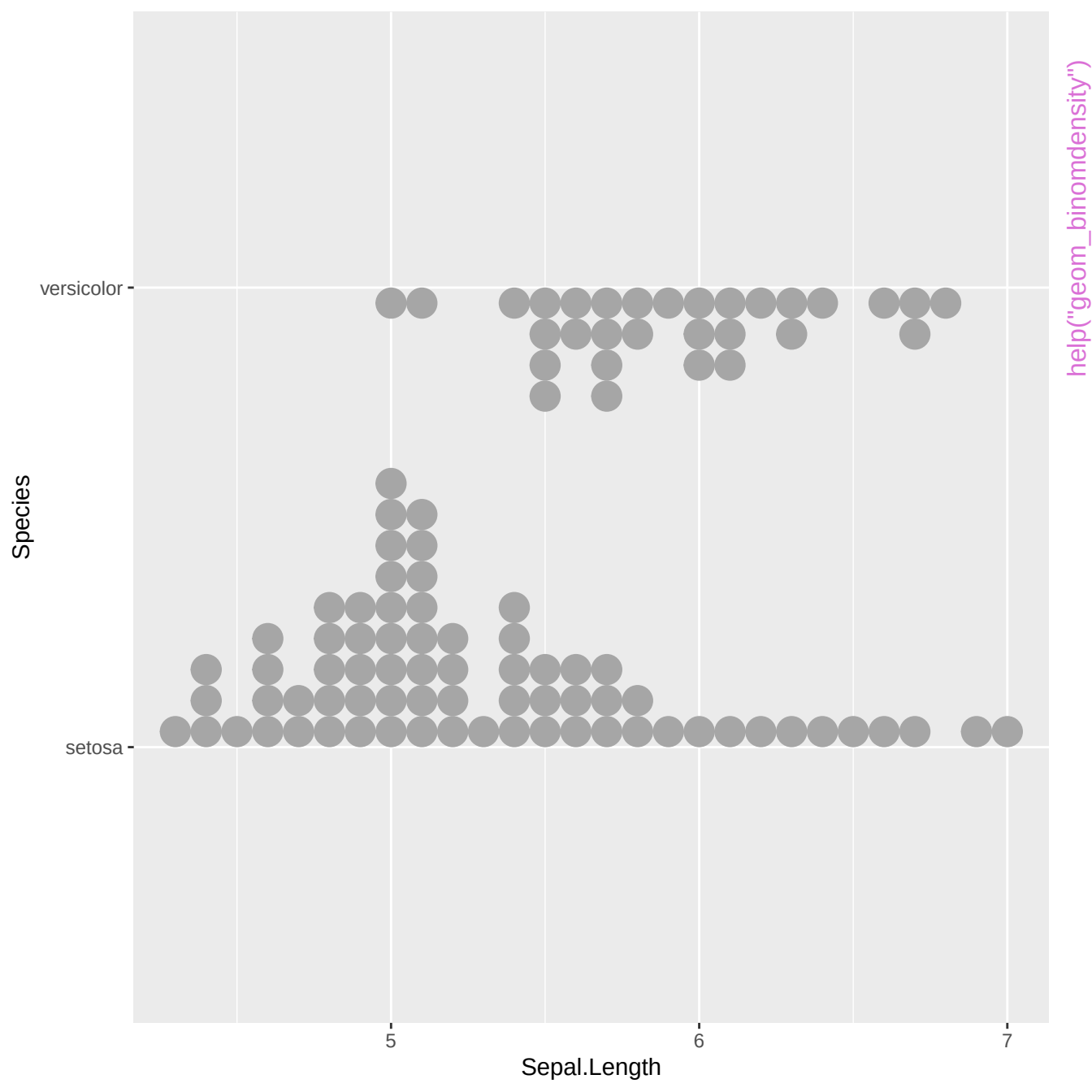
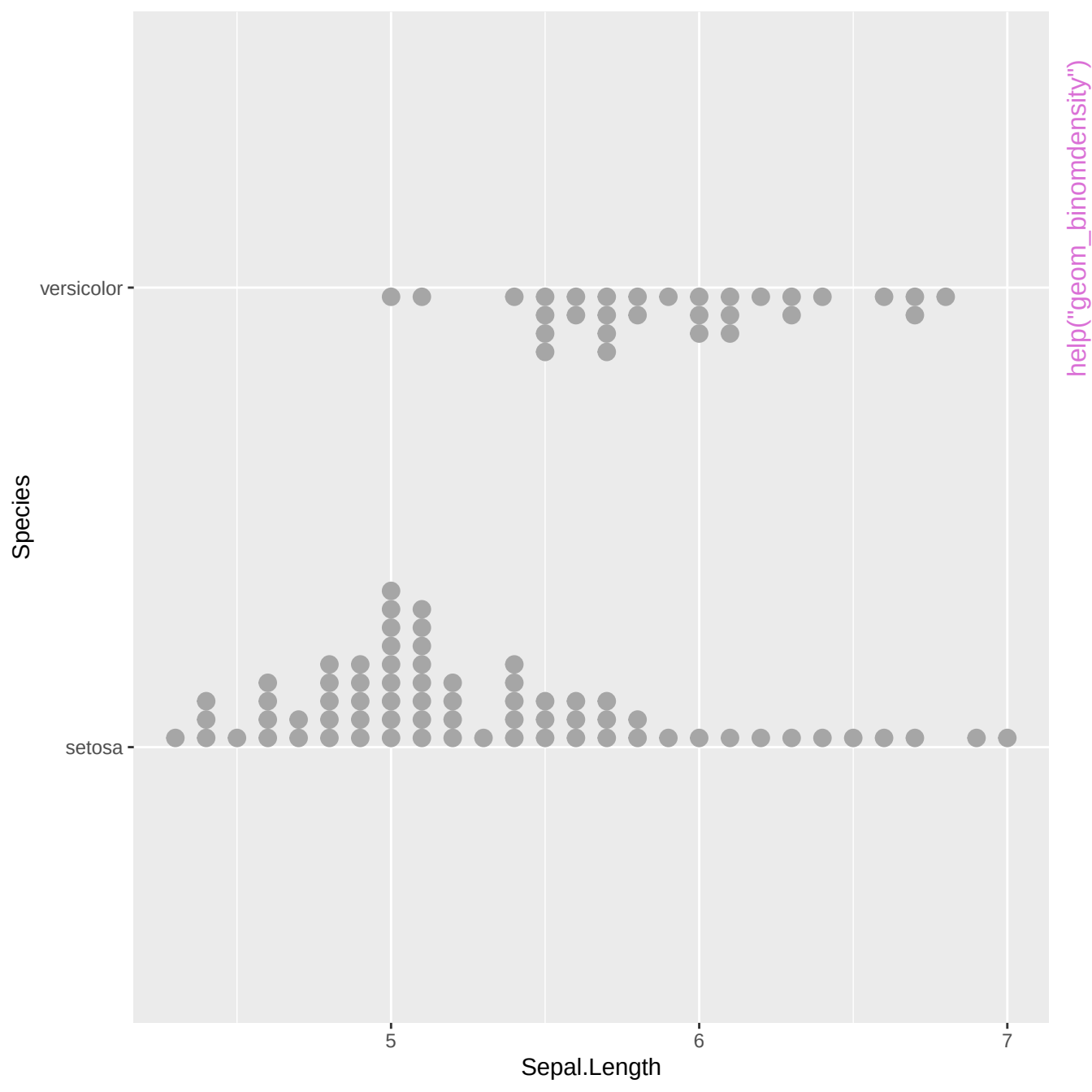
help("coord_radar")

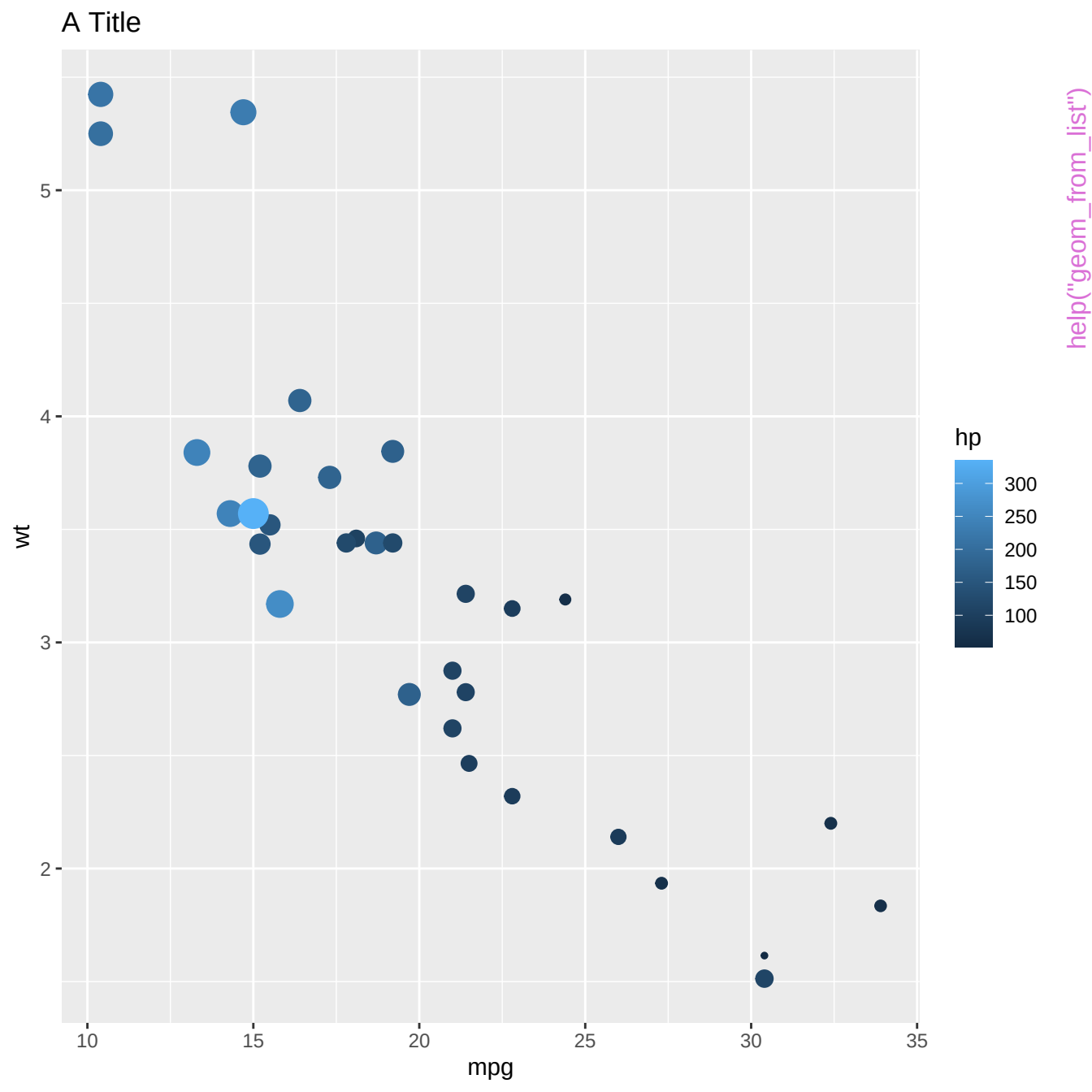

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

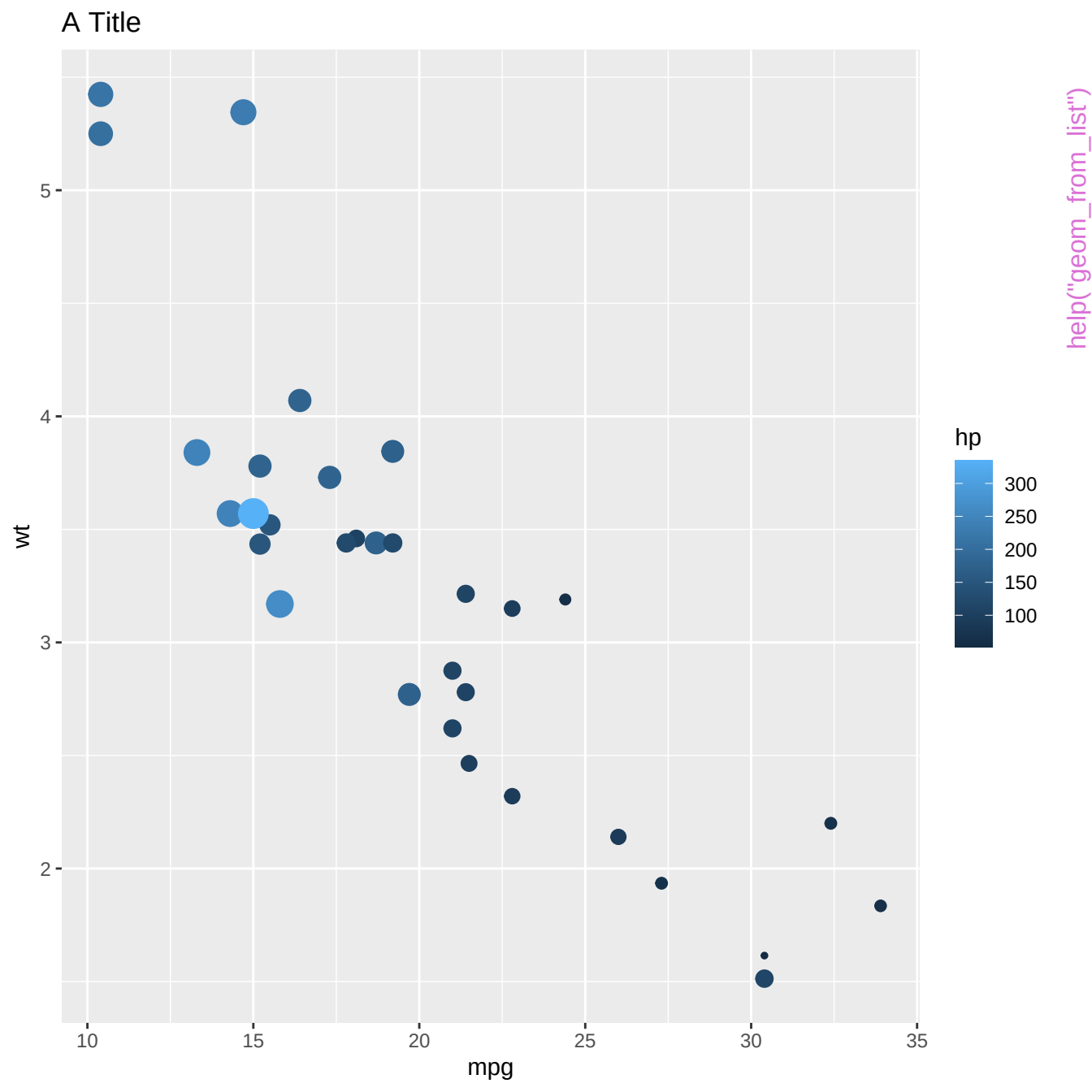

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

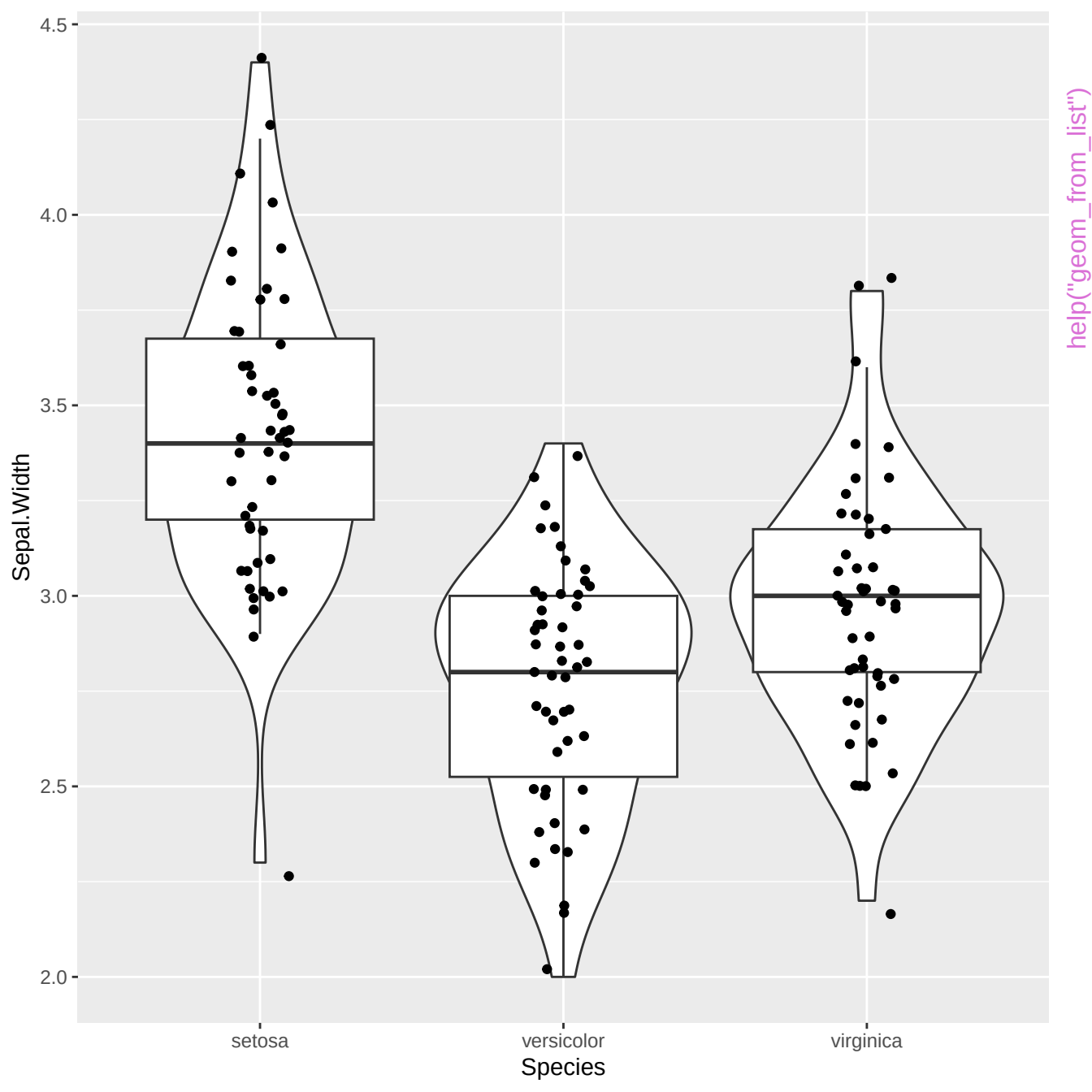

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

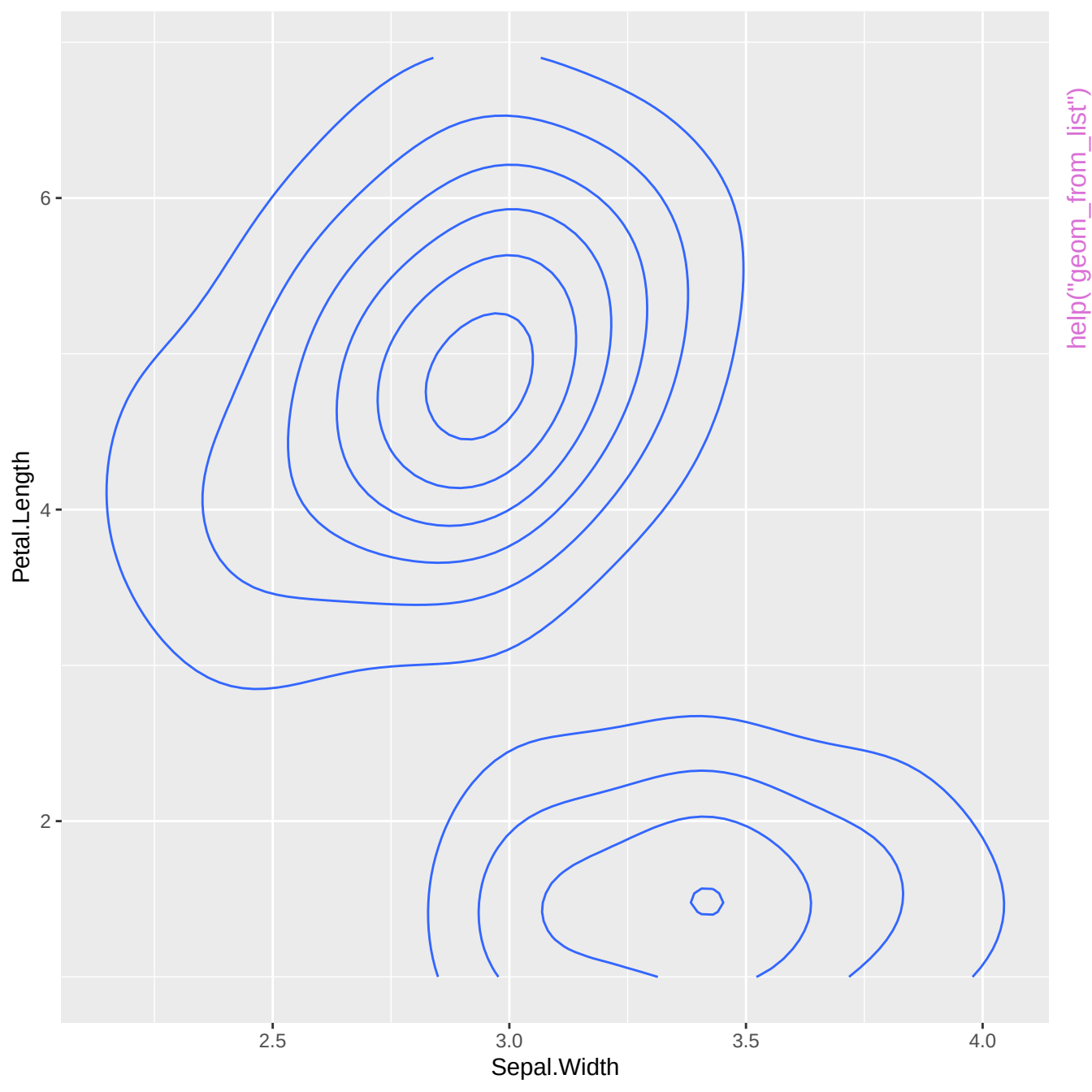

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

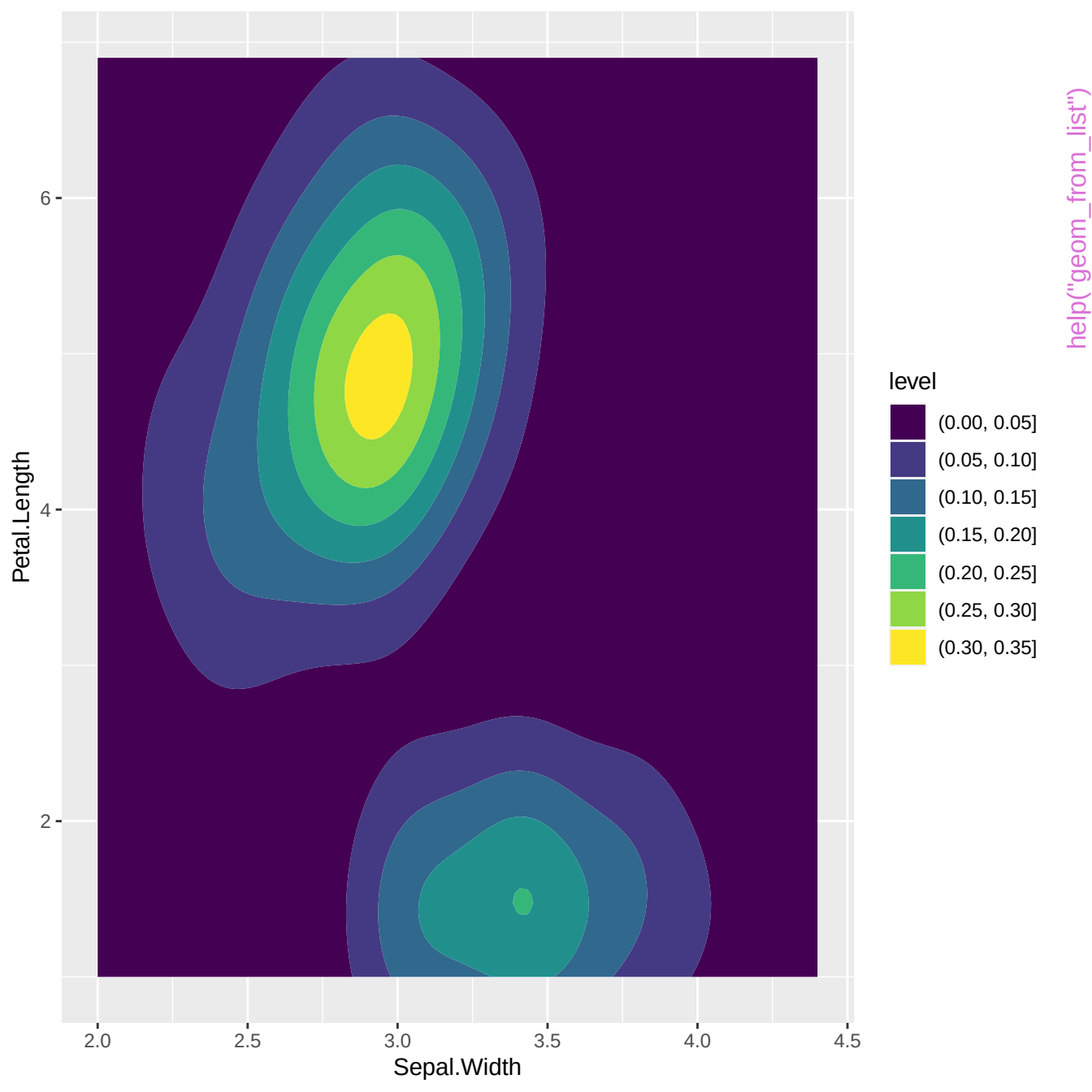

versicolor
setosa
Species
5
6
7
Sepal.Length
help("geom_binomdensity")

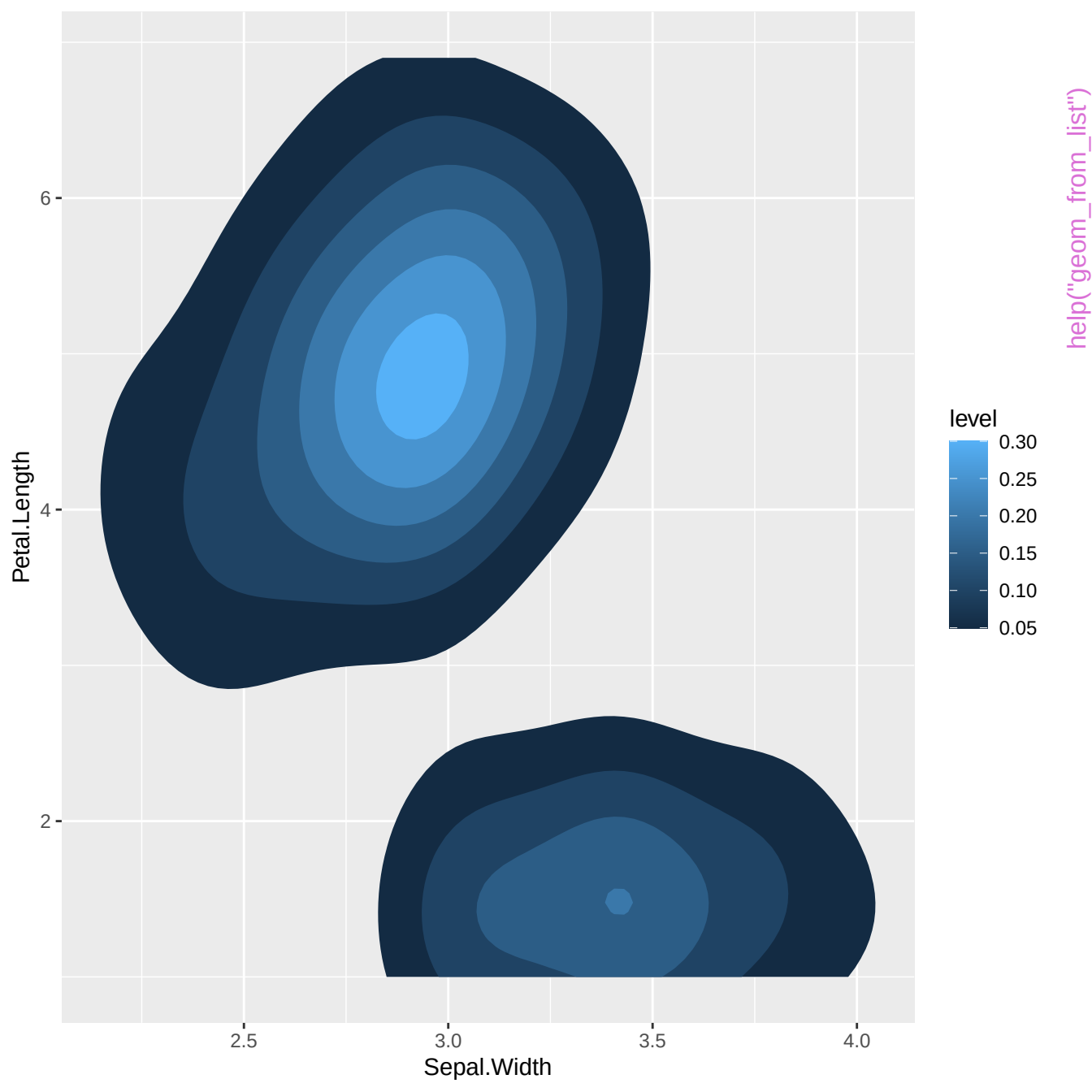

A Title
wt
mpg
hp
300
250
200
150
100
5
4
3
2
10
15
20
25
30
35
help("geom_from_list")

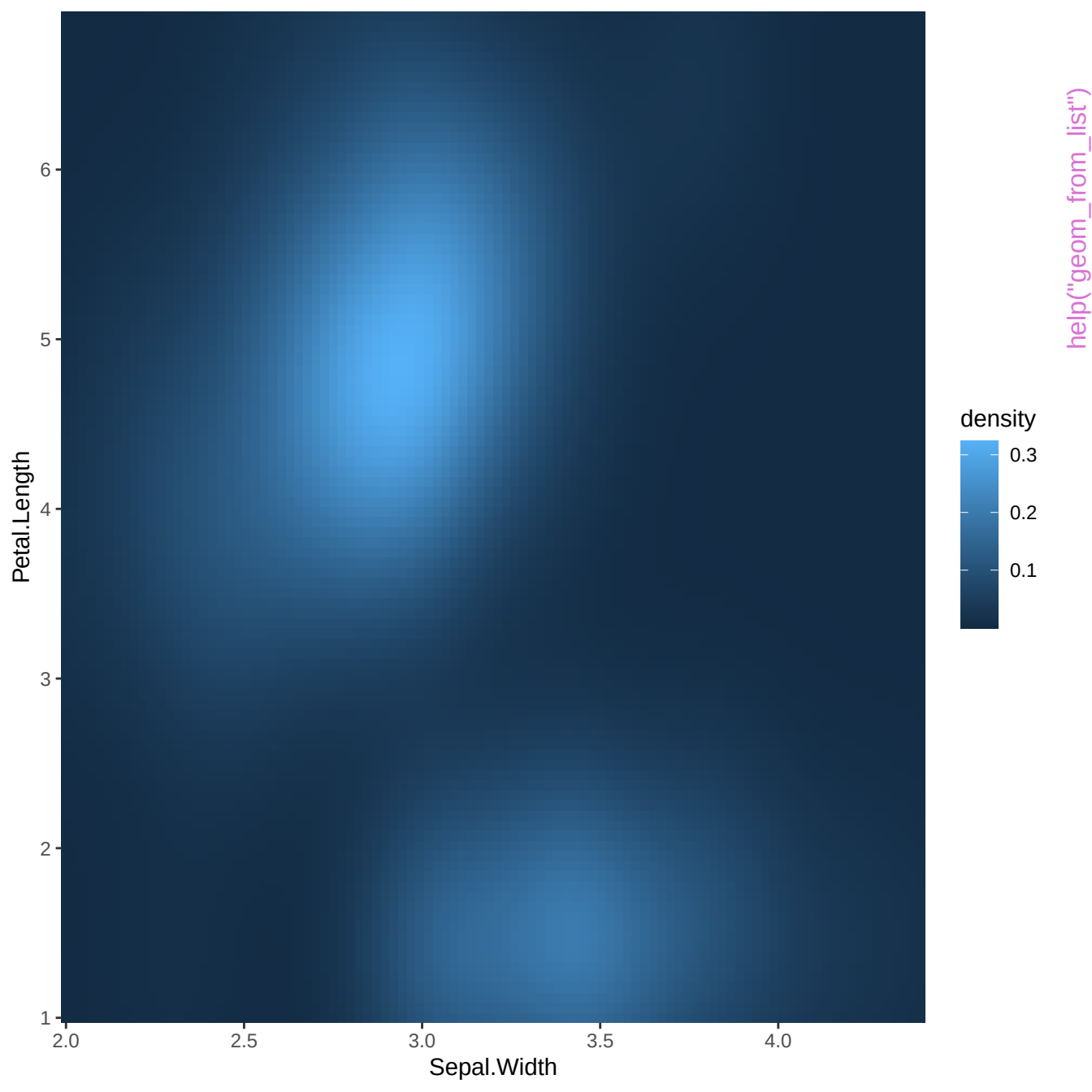

A Title
wt
mpg
hp
300
250
200
150
100
5
4
3
2
10
15
20
25
30
35
help("geom_from_list")

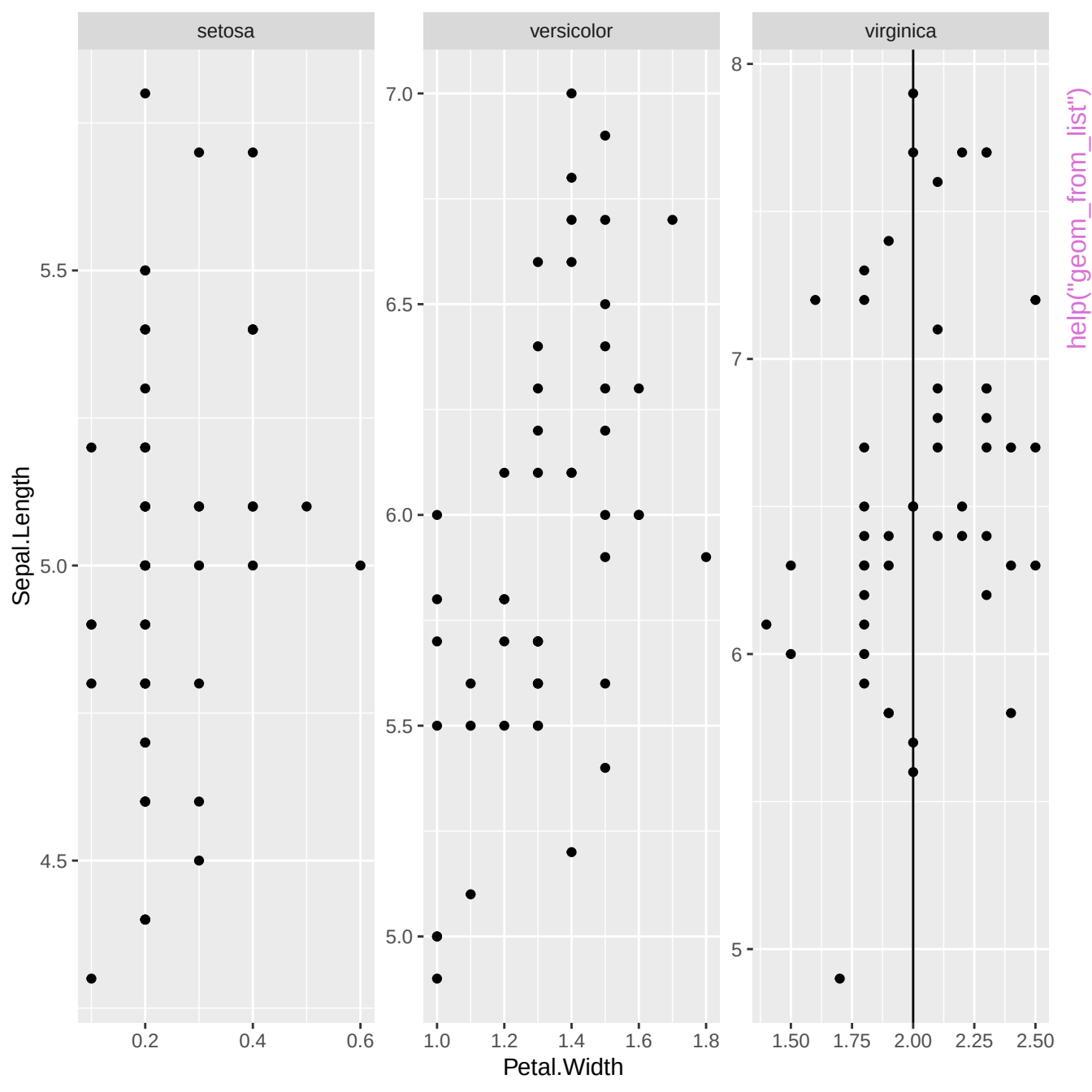

4.5
4.0
3.5
3.0
2.5
2.0
Sepal.Width
setosa
versicolor
virginica
Species
help("geom_from_list")

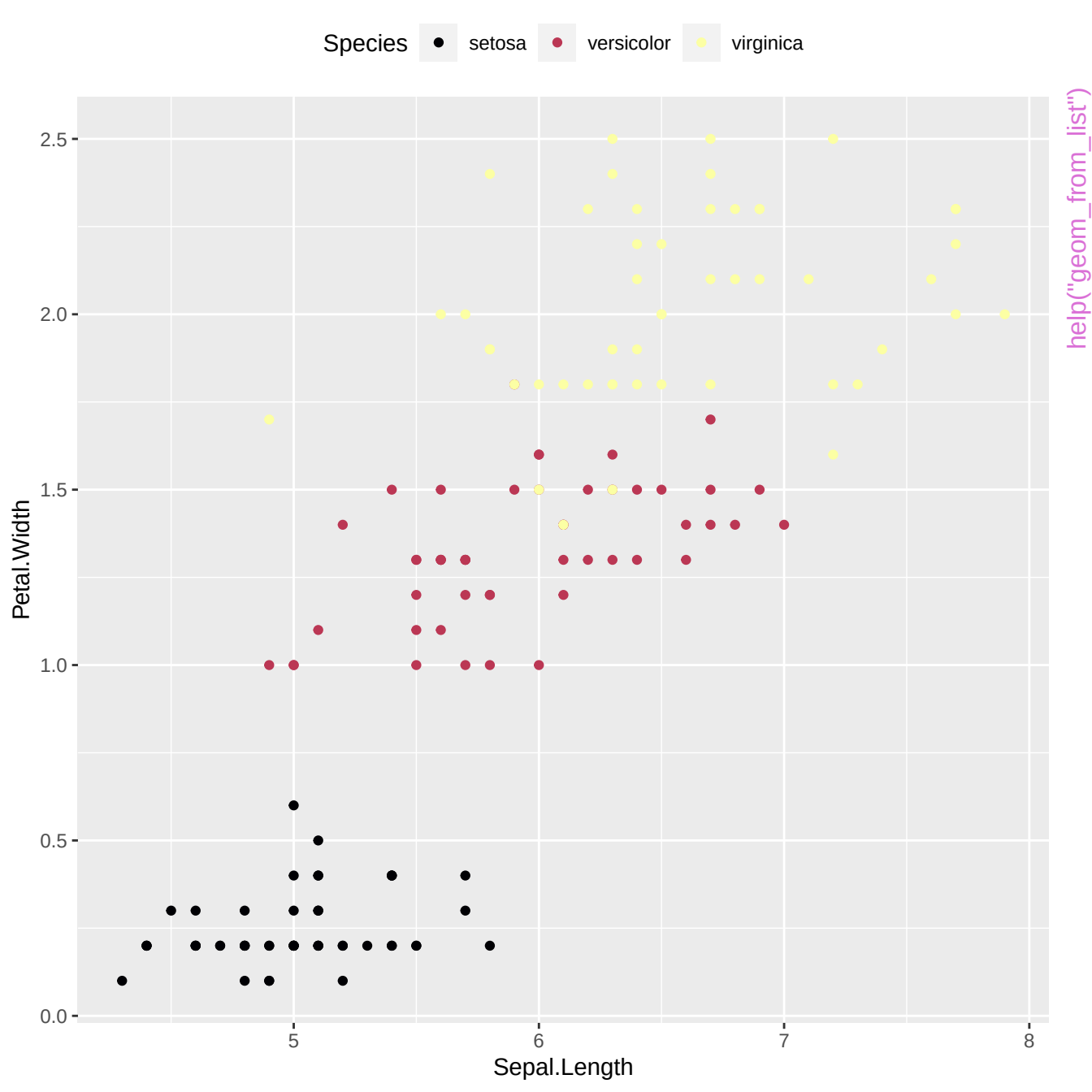

help("geom_from_list")
Petal.Length
6
4
2
2.5
3.0
3.5
4.0
Sepal.Width

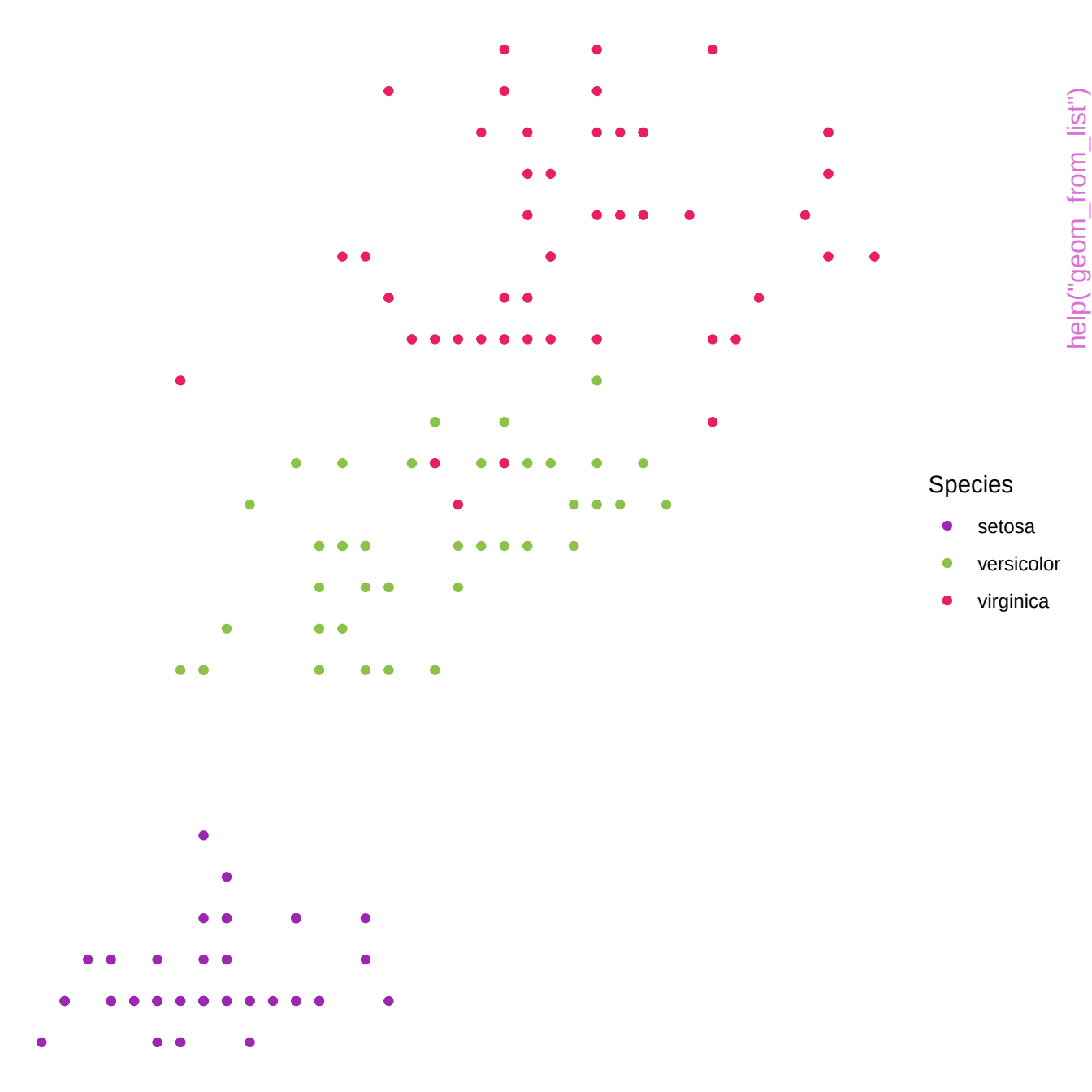

Petal.Length
6
4
2
2.0
2.5
3.0
3.5
4.0
4.5
Sepal.Width
level
(0.00, 0.05]
(0.05, 0.10]
(0.10, 0.15]
(0.15, 0.20]
(0.20, 0.25]
(0.25, 0.30]
(0.30, 0.35]
help("geom_from_list")

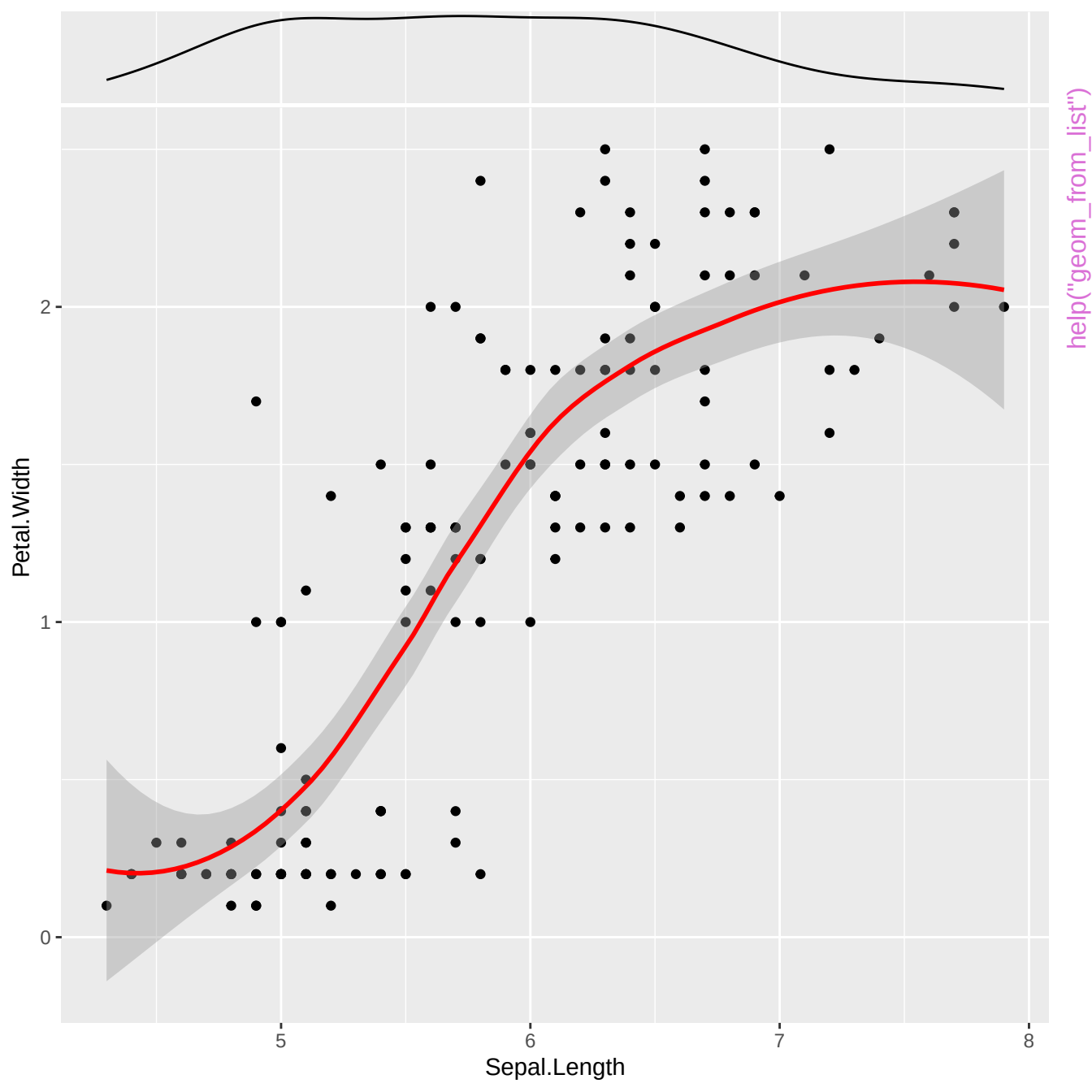

help("geom_from_list")
level
0.30
0.25
0.20
0.15
0.10
0.05
Petal.Length
6
4
2
Sepal.Width
2.5
3.0
3.5
4.0

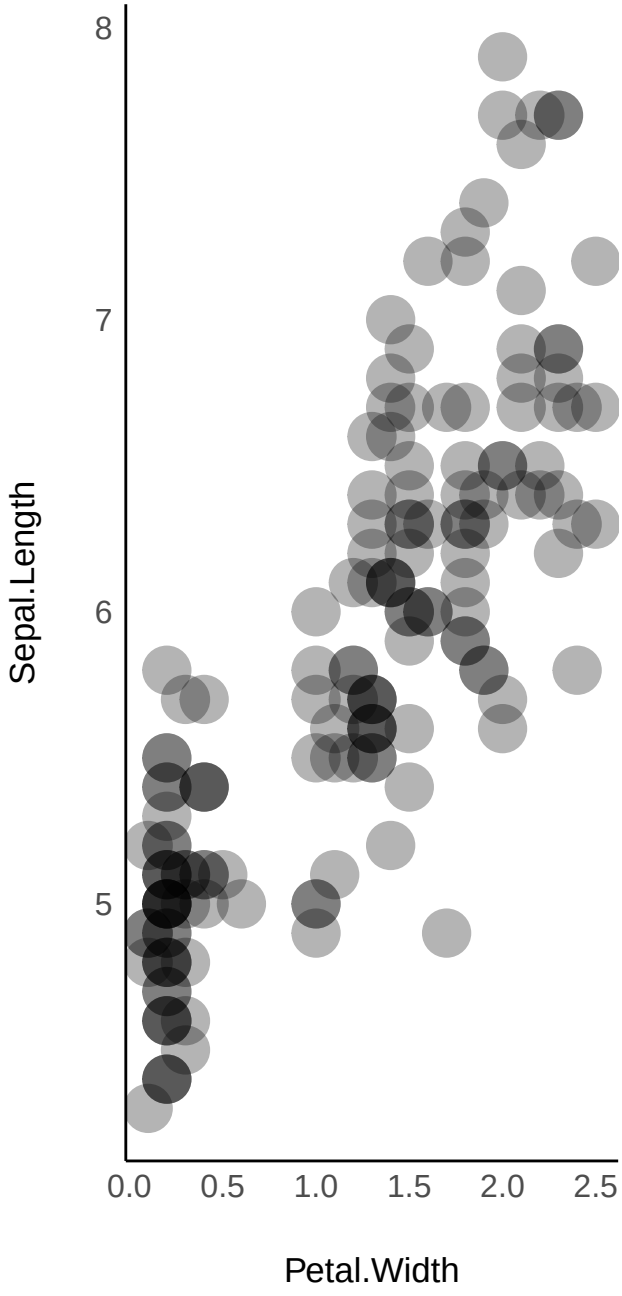

help("geom_from_list")
density
0.3
0.2
0.1
Petal.Length
6
5
4
3
2
1
2.0
2.5
3.0
3.5
4.0
Sepal.Width

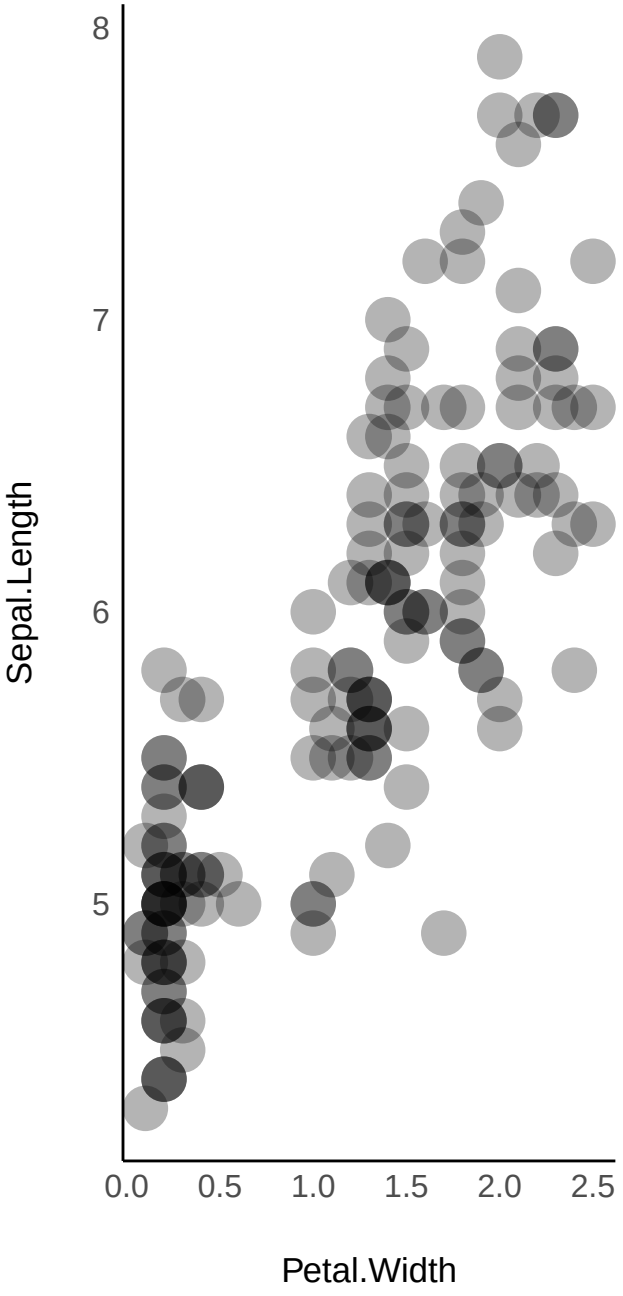

setosa
versicolor
virginica
Sepal.Length
Petal.Width
help("geom_from_list")
4.5
5.0
5.5
5.0
5.5
6.0
6.5
7.0
5
6
7
8
0.2
0.4
0.6
1.0
1.2
1.4
1.6
1.8
1.50
1.75
2.00
2.25
2.50


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

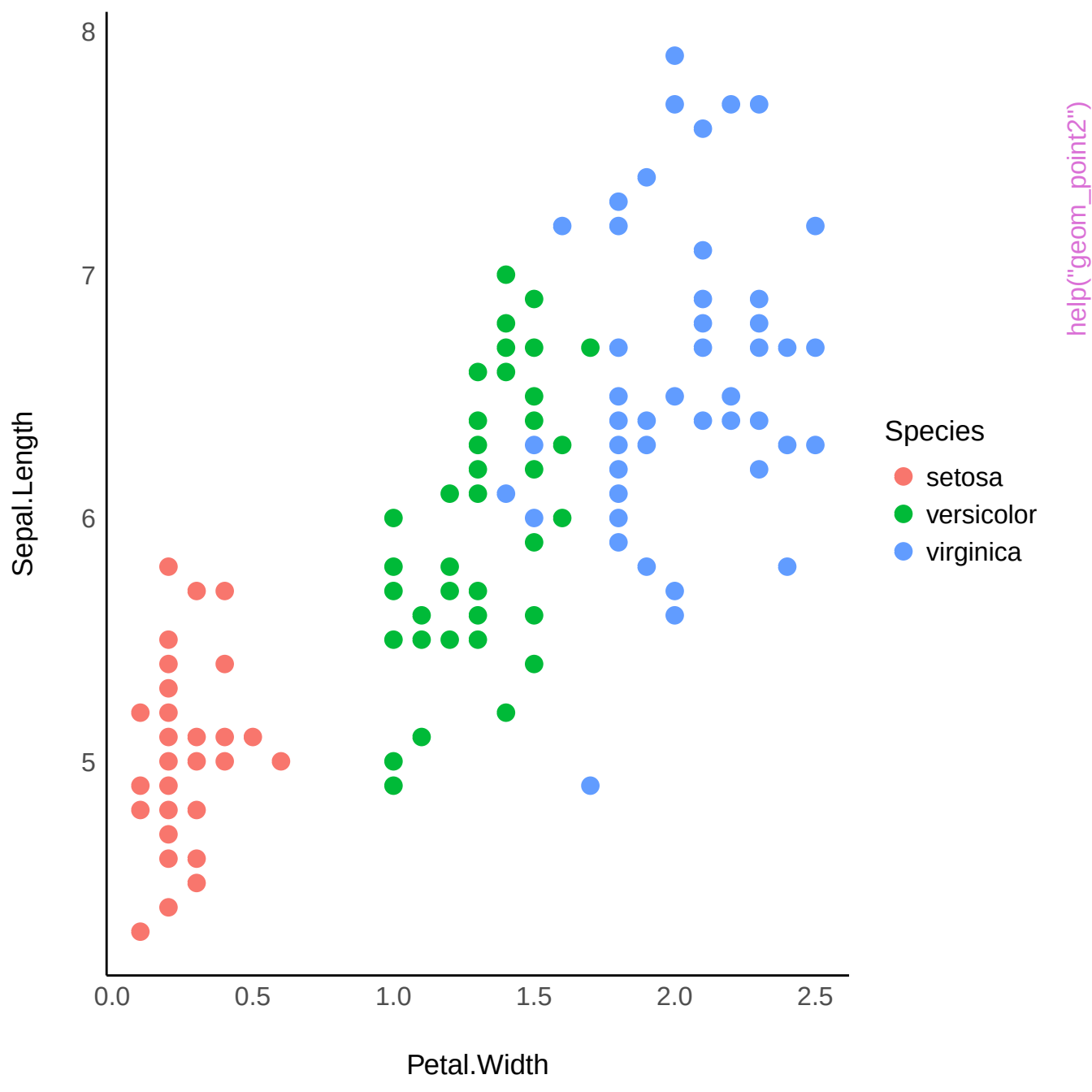

help("geom_from_list")
Species
setosa
versicolor
virginica

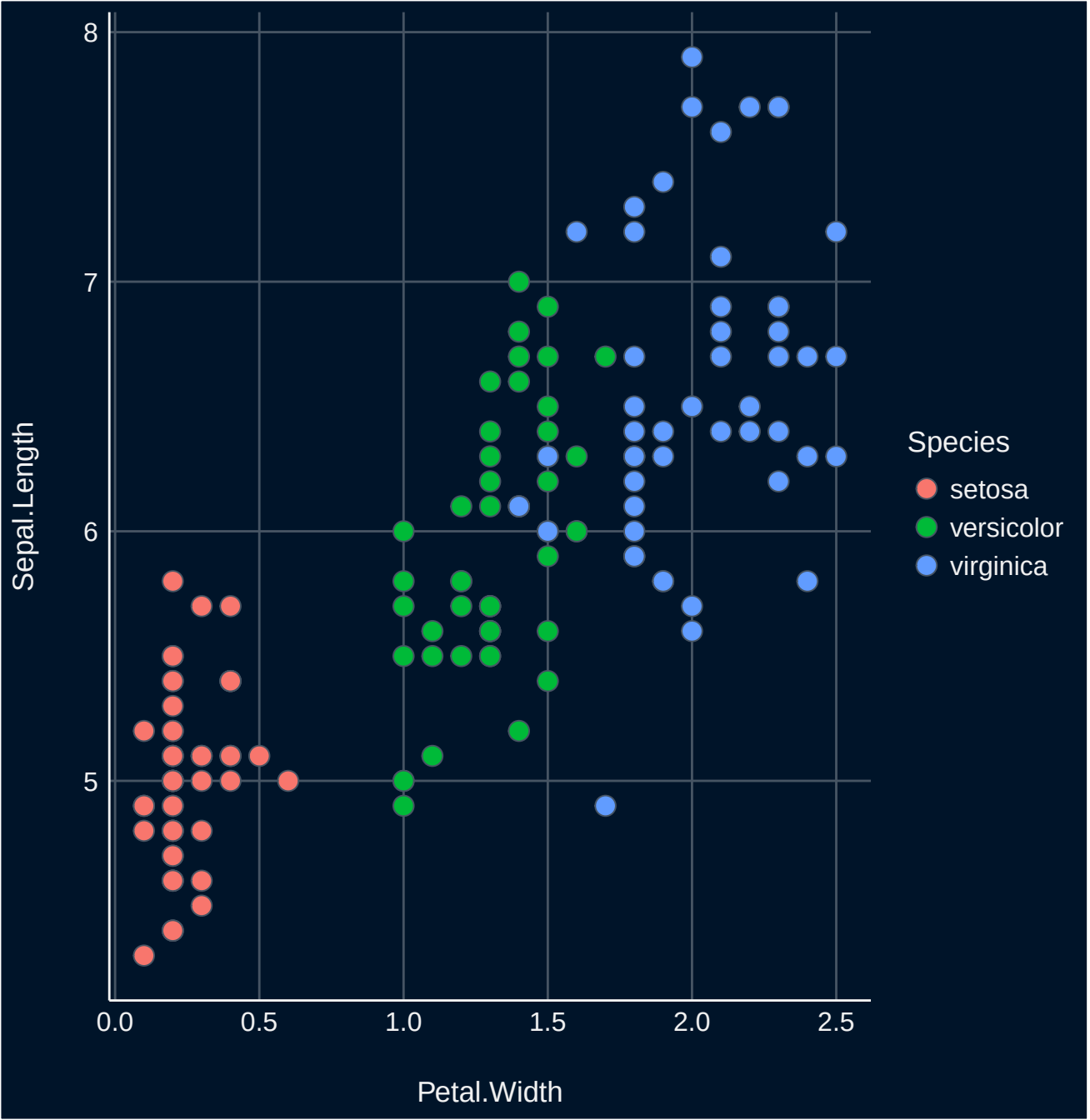

help("geom_from_list")
Petal.Width
0
1
2
Sepal.Length
5
6
7
8

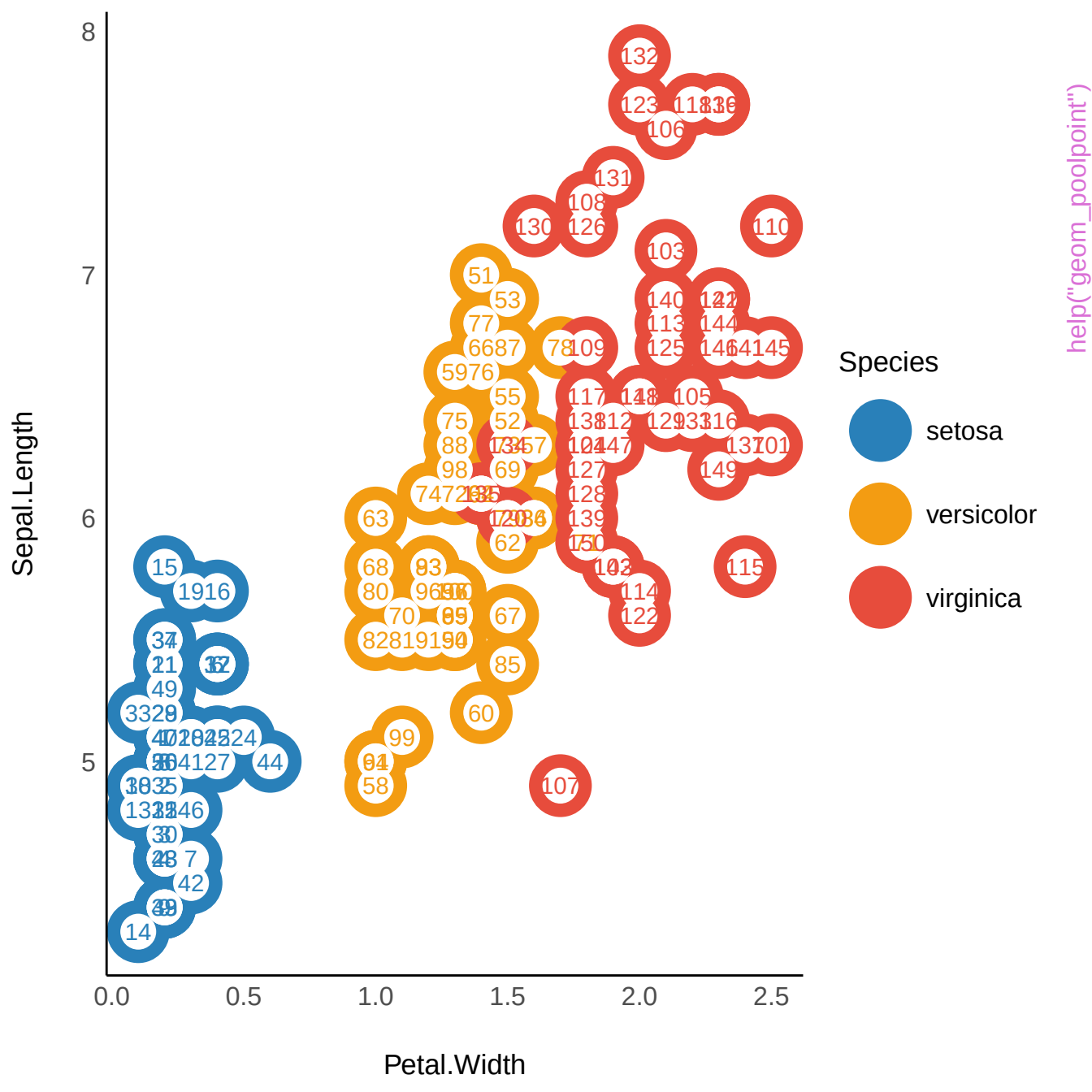


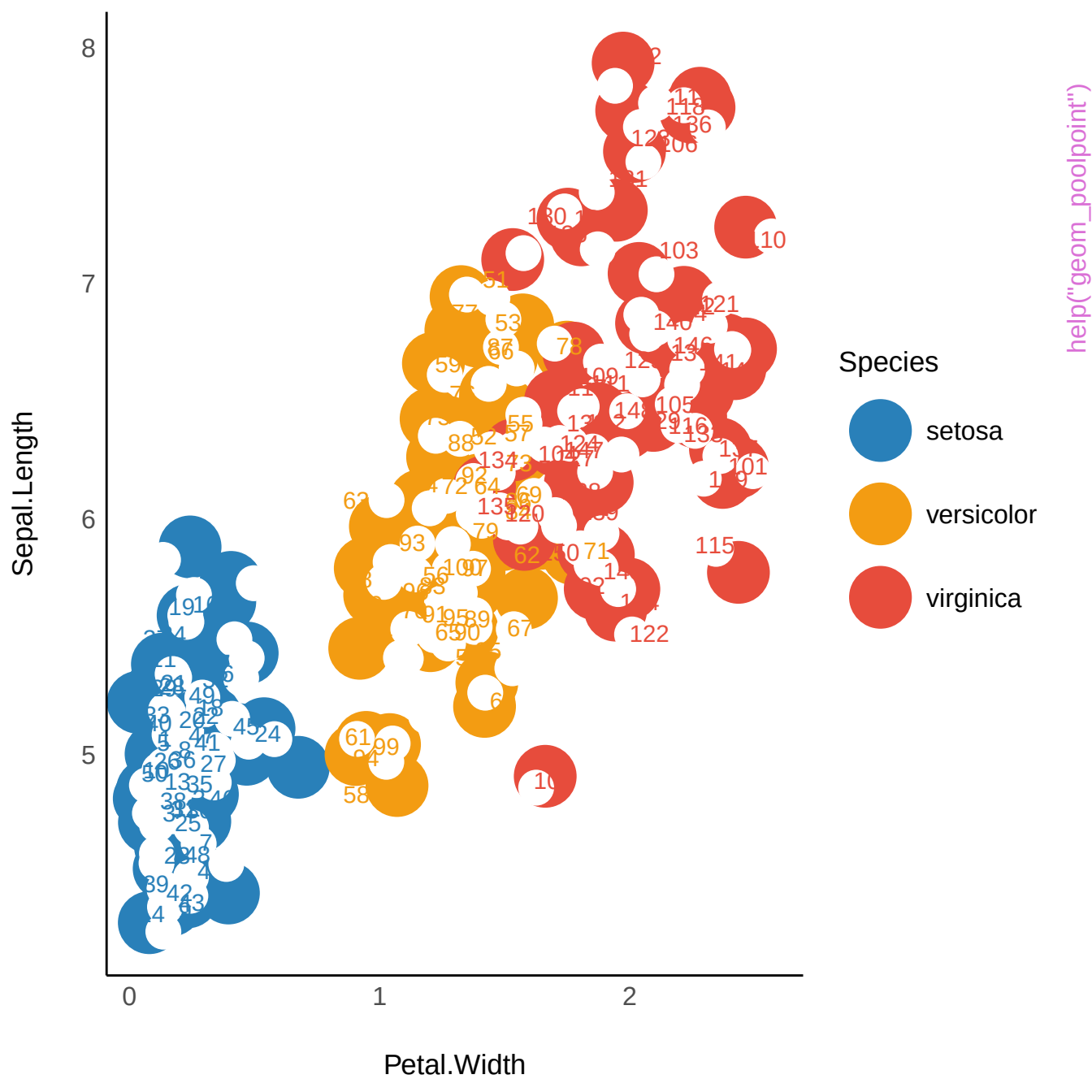


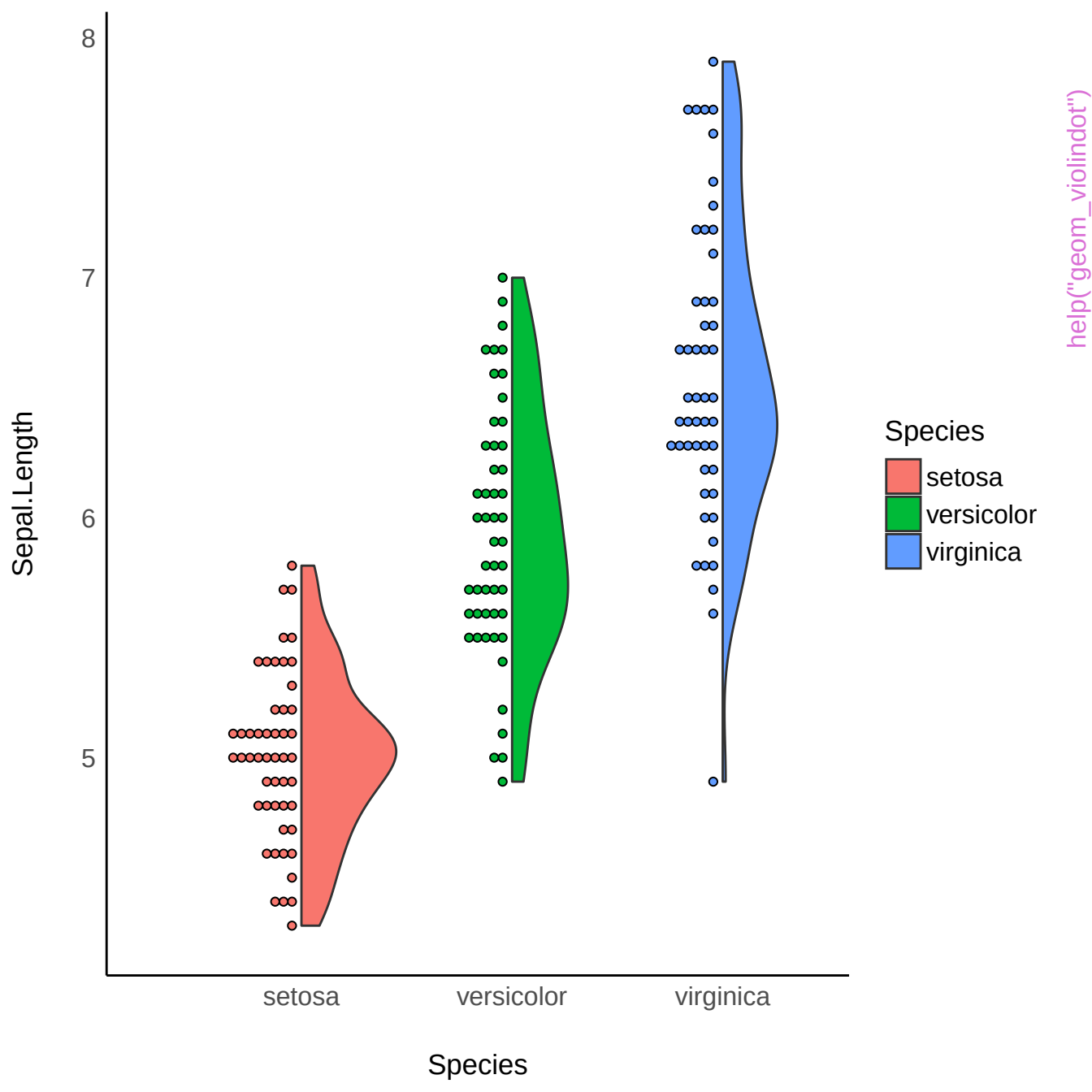
help("geom_point2")

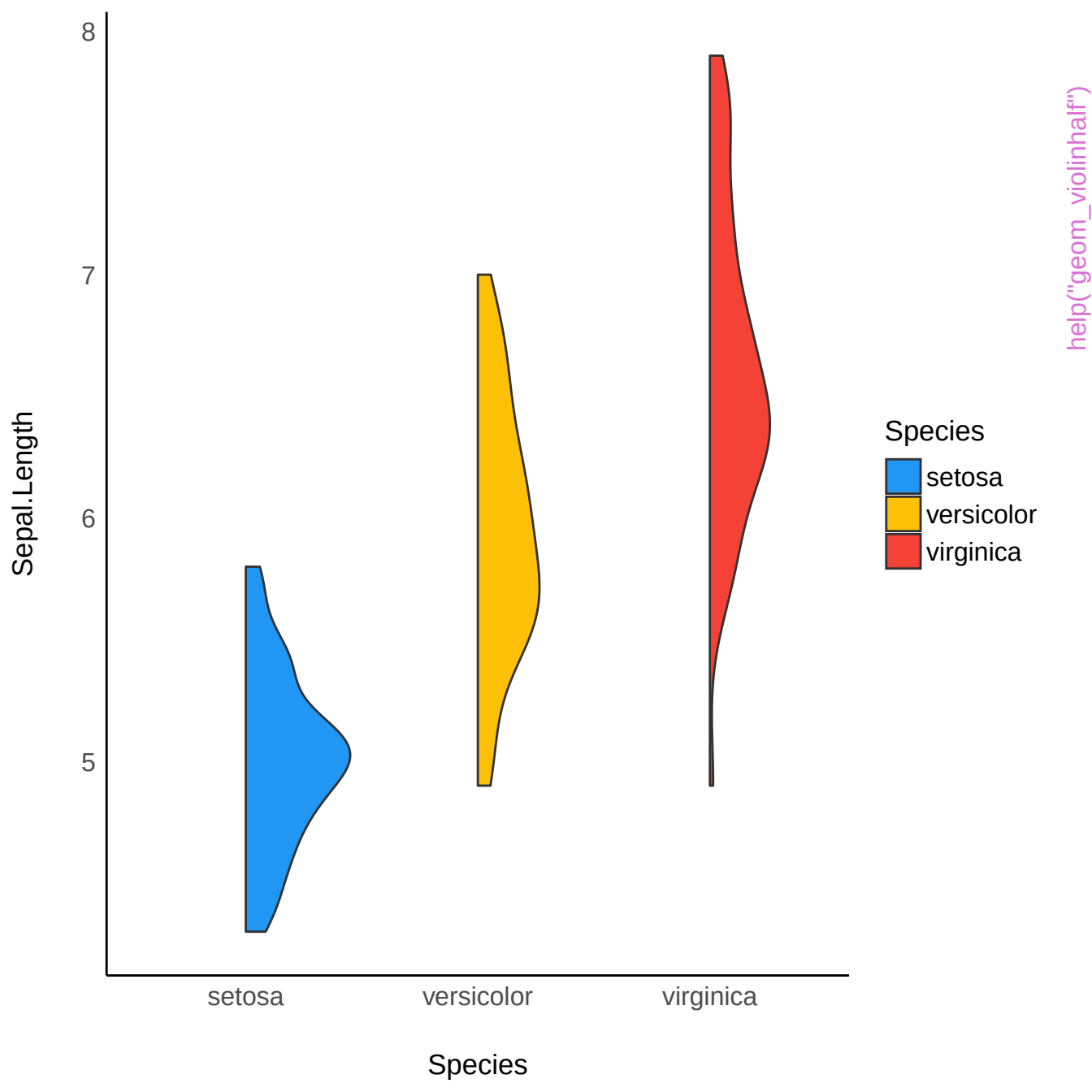

8
7
6
5
Sepal.Length
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica
help("geom_point2")

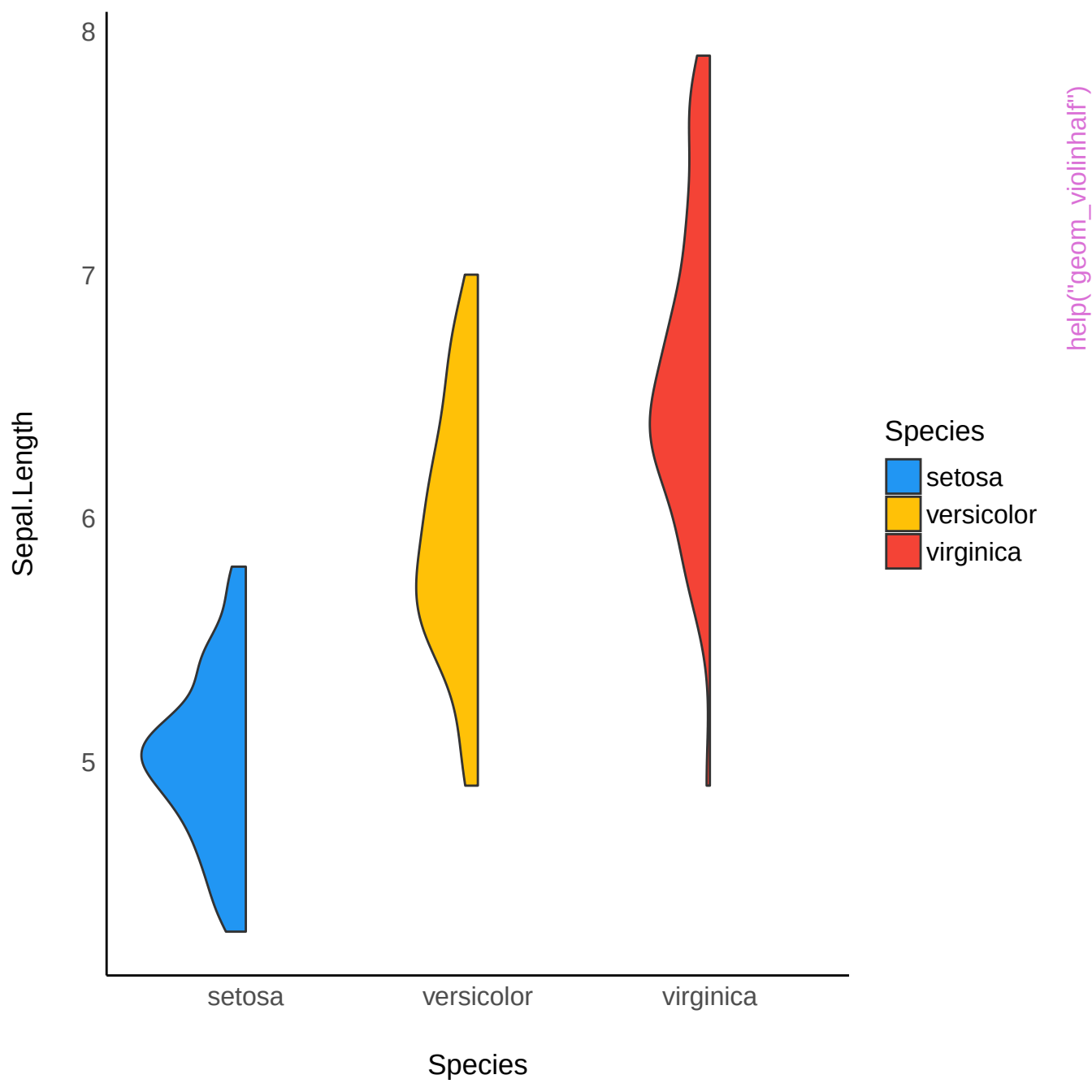

8
7
6
5
Sepal.Length
0.0
0.5
1.0
1.5
2.0
2.5
Petal.Width
Species
setosa
versicolor
virginica
help("geom_point2")

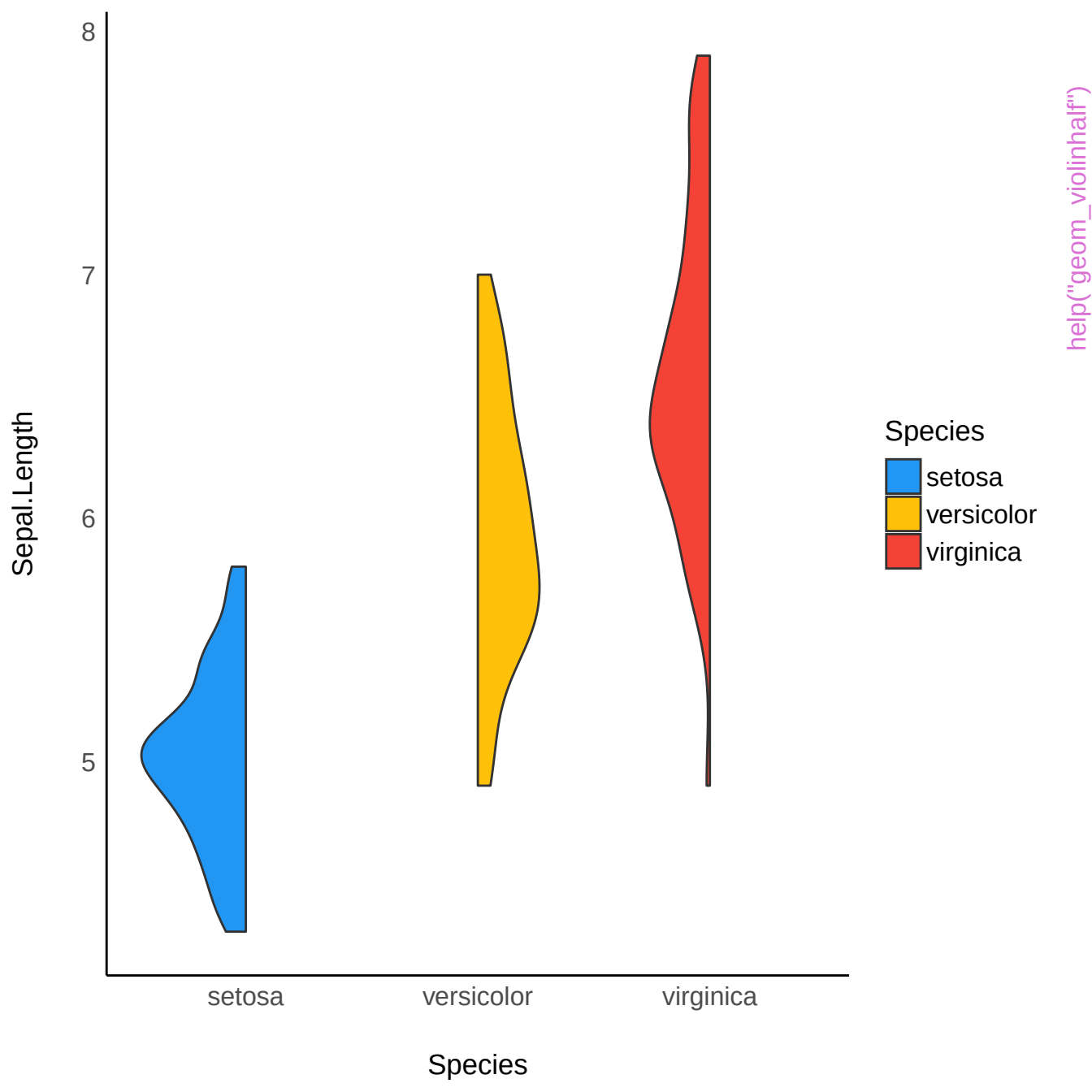

Sepal.Length
Petal.Width
8
7
6
5
0.0
0.5
1.0
1.5
2.0
2.5
Species
setosa
versicolor
virginica
help("geom_poolpoint")

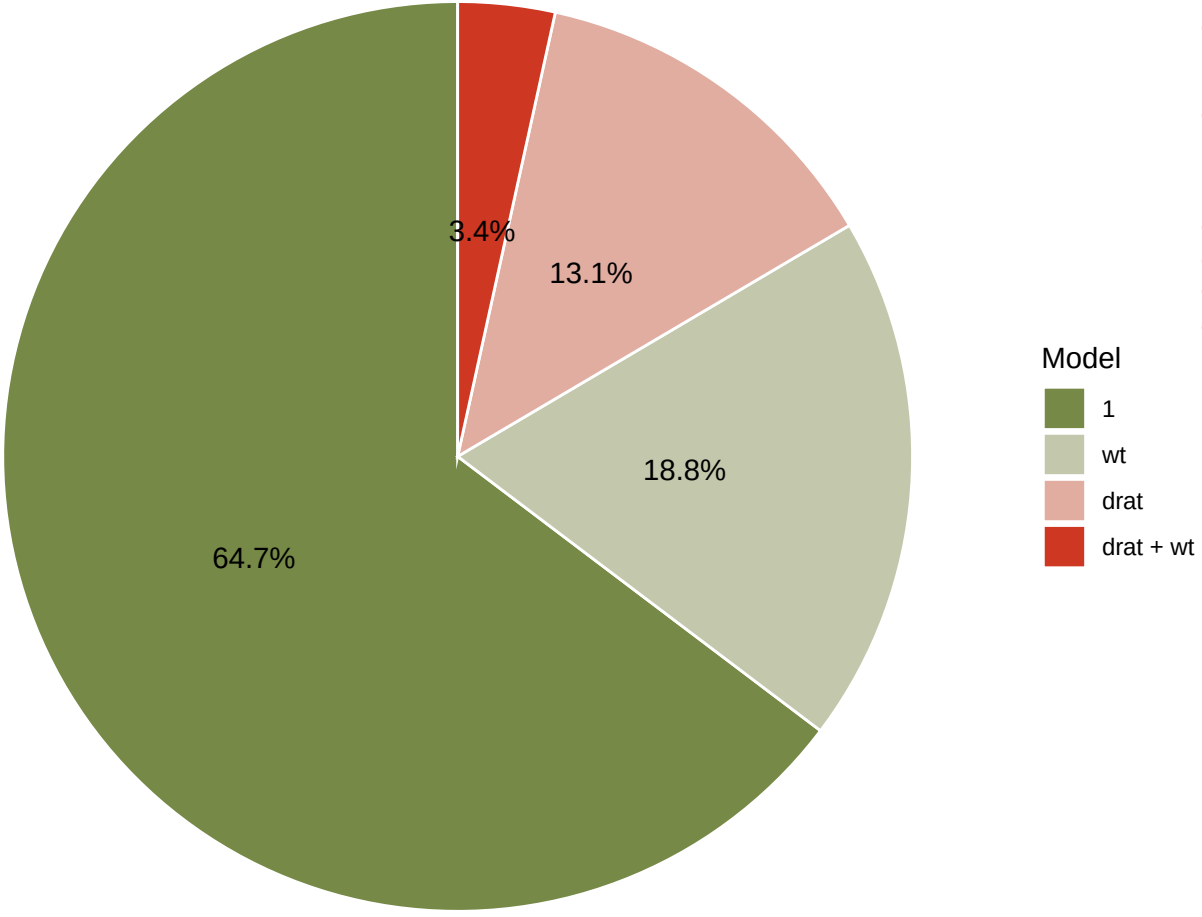

Sepal.Length
Petal.Width
8
7
6
5
0
1
2
Species
setosa
versicolor
virginica
help("geom_poolpoint")


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

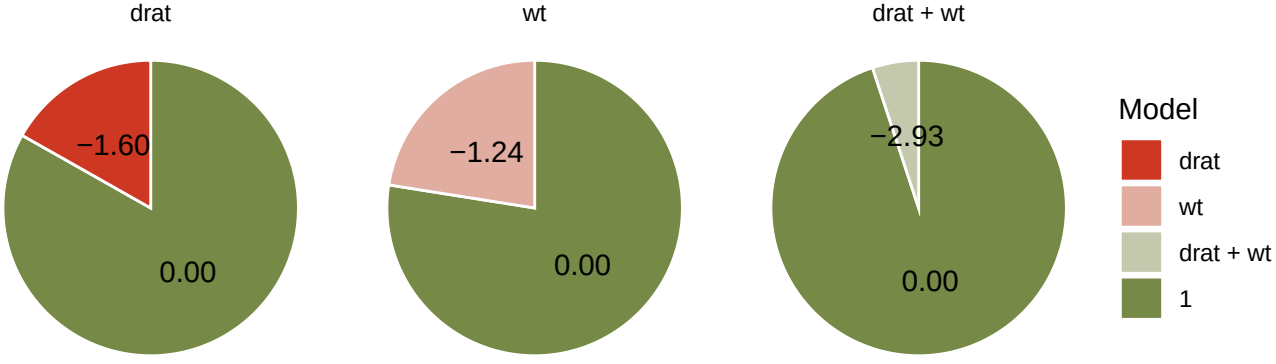

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("geom_violinhalf")

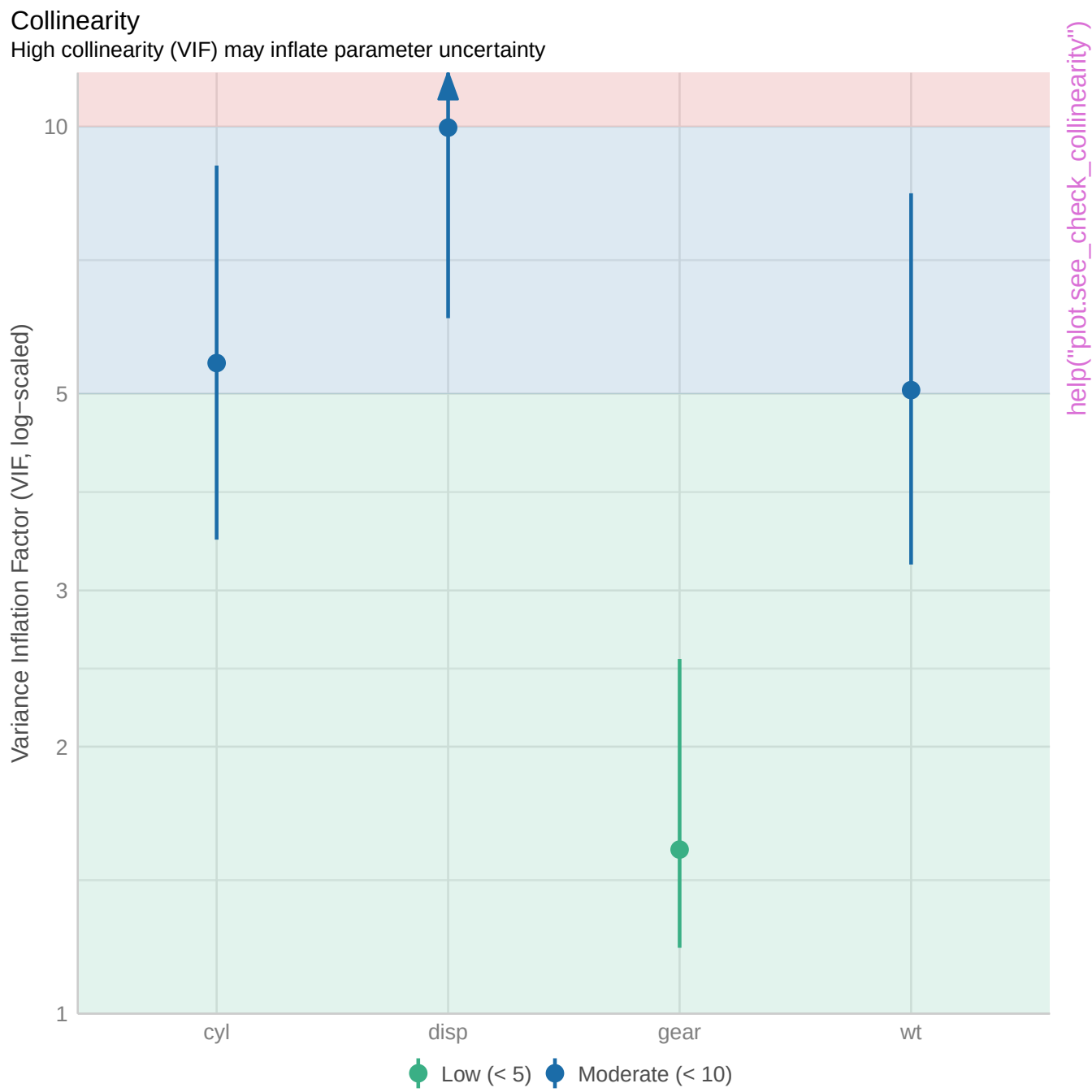

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("geom_violinhalf")

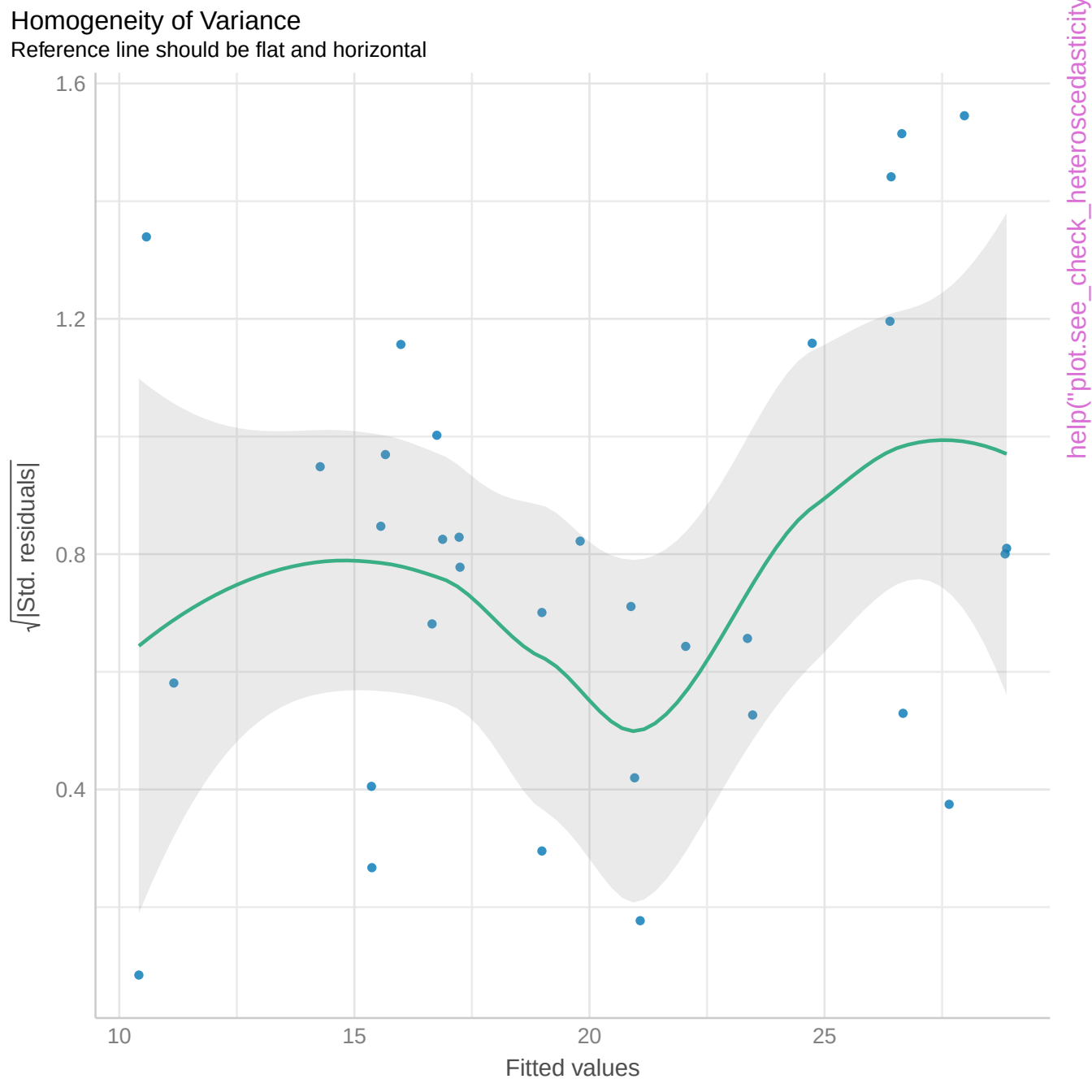

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("geom_violinhalf")

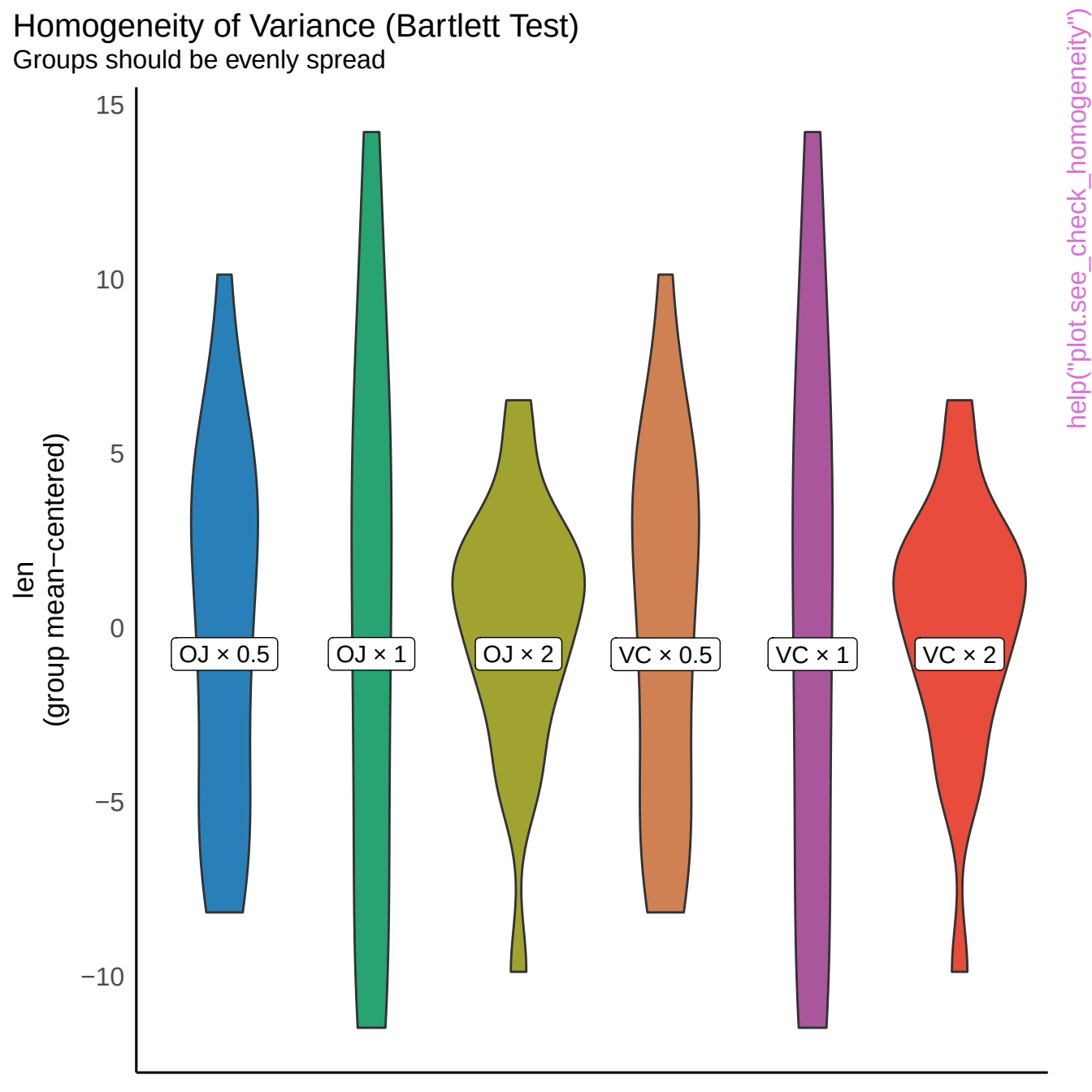


help("plot.see_bayesfactor_models")




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")

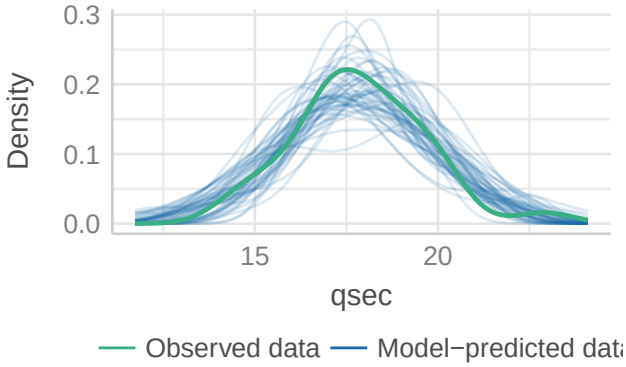

Homogeneity of Variance
Reference line should be flat and horizontal
1.6
1.2
0.8
0.4
√|Std. residuals|
10
15
20
25
Fitted values
help("plot.see_check_heteroscedasticity")


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

help("plot.see_check_model")

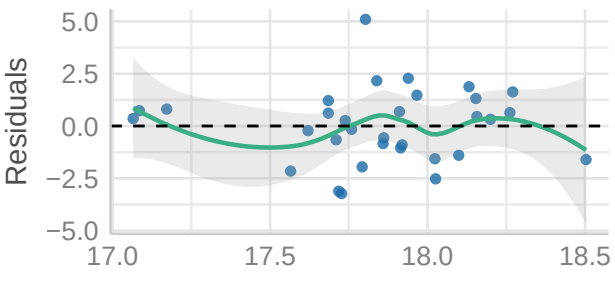
Posterior Predictive Check

Model−predicted lines should resemble observed data



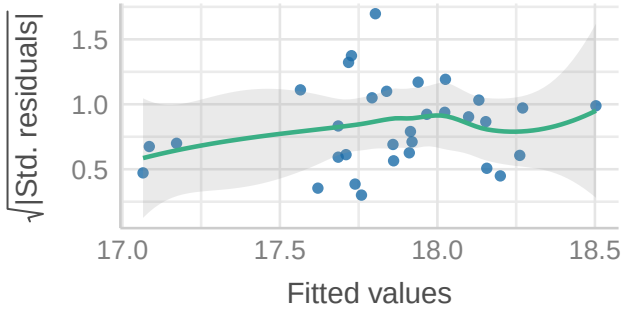
Linearity

Reference line should be flat and horizontal



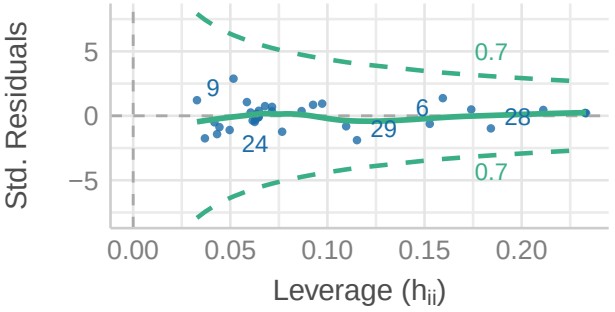
Homogeneity of Variance

Reference line should be flat and horizontal



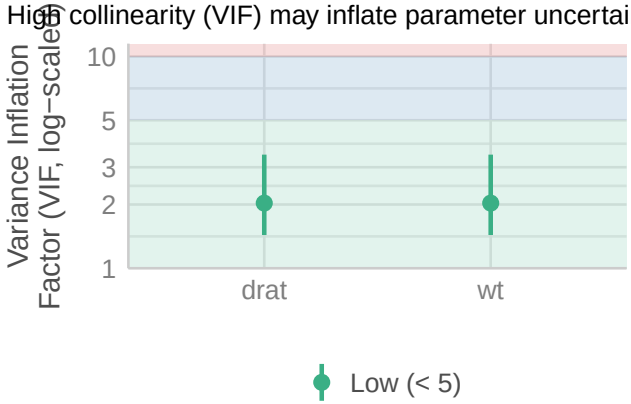
Influential Observations

Points should be inside the contour lines



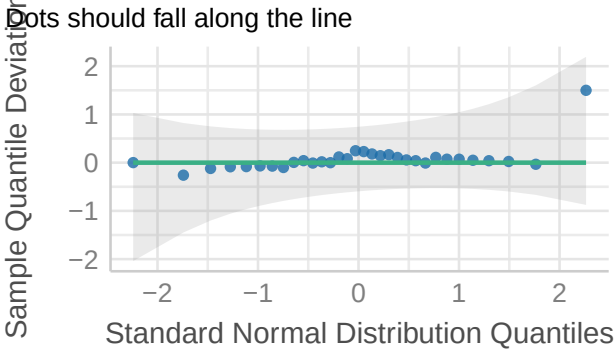
Collinearity

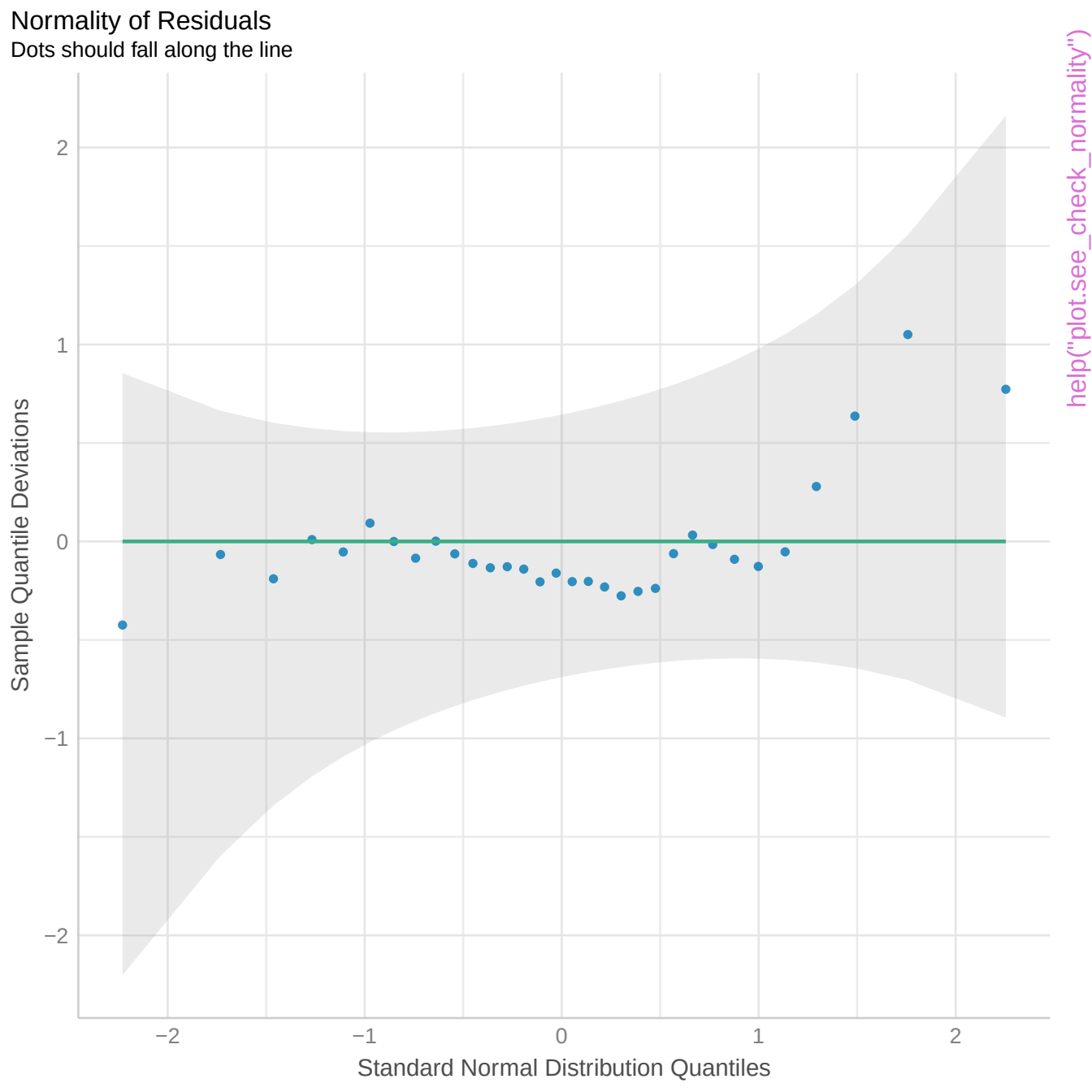
High collinearity (VIF) may inflate parameter uncertainty

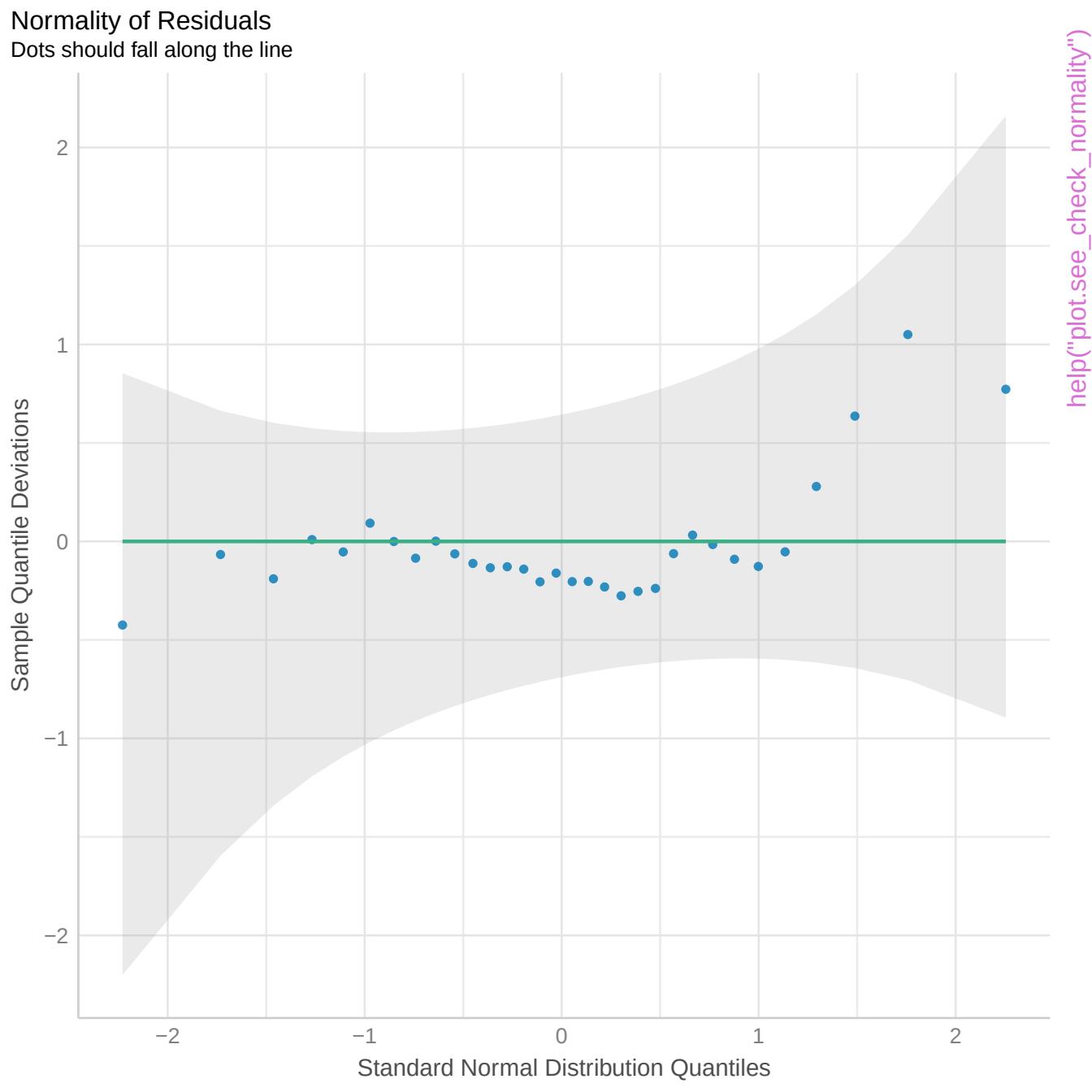


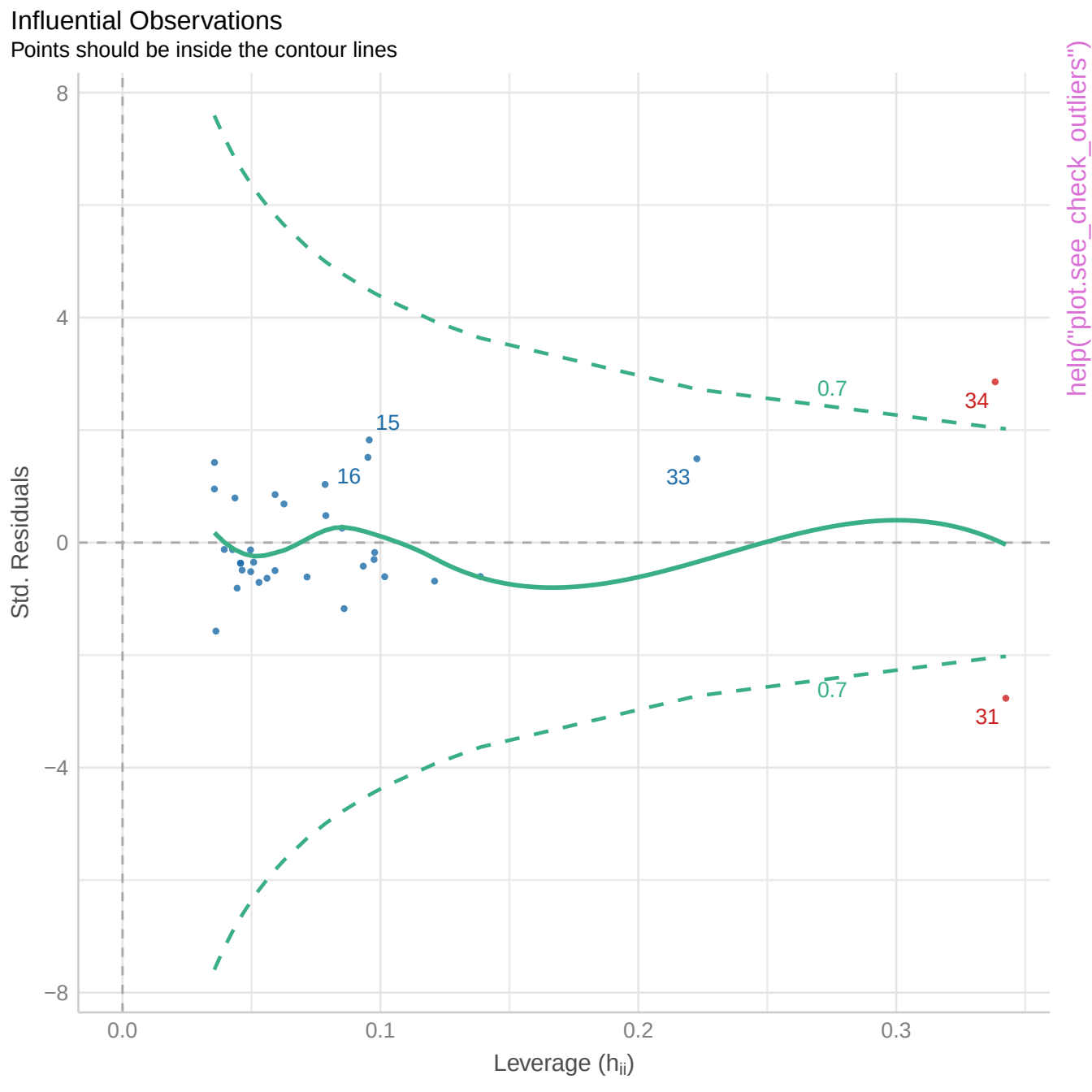
Normality of Residuals

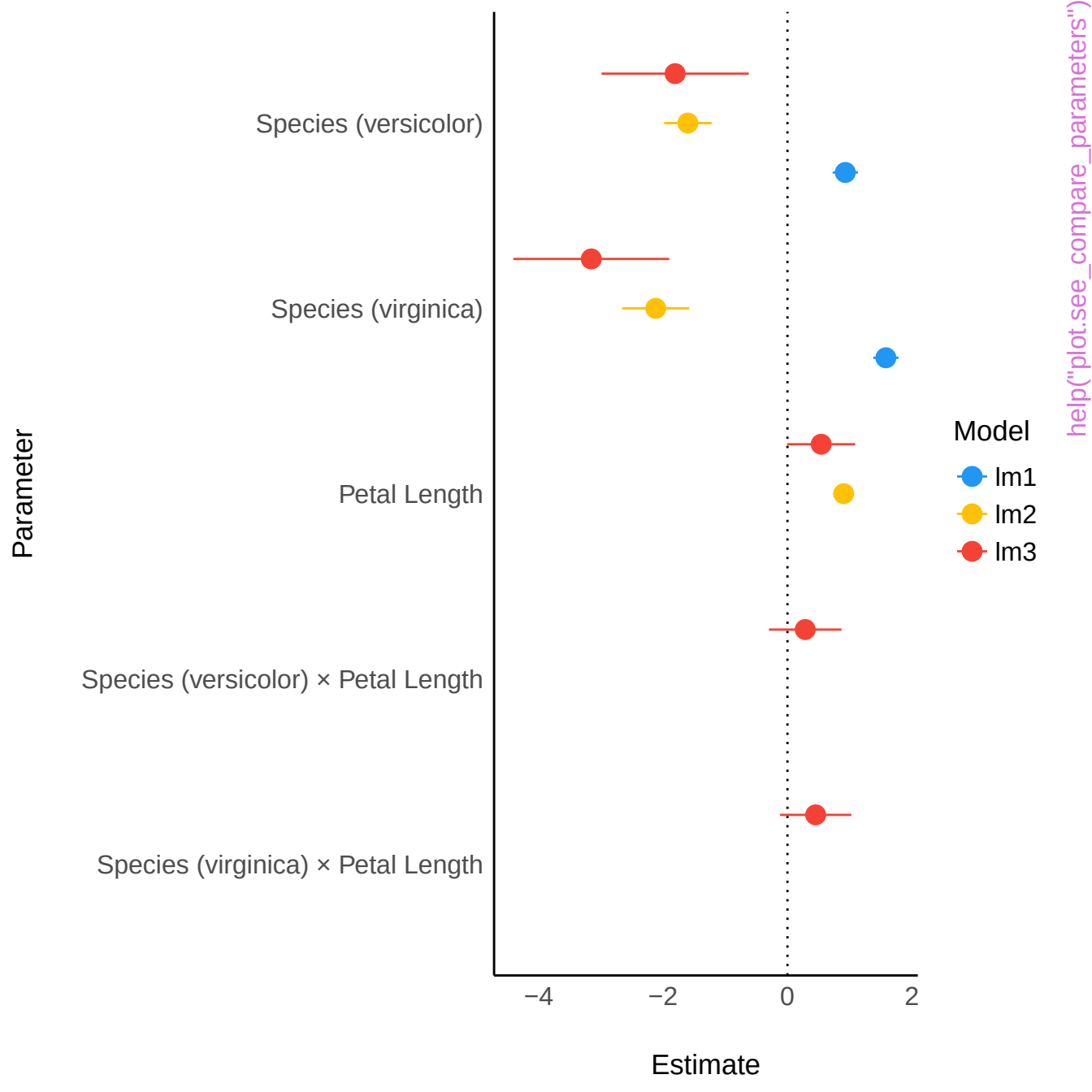
Dots should fall along the line



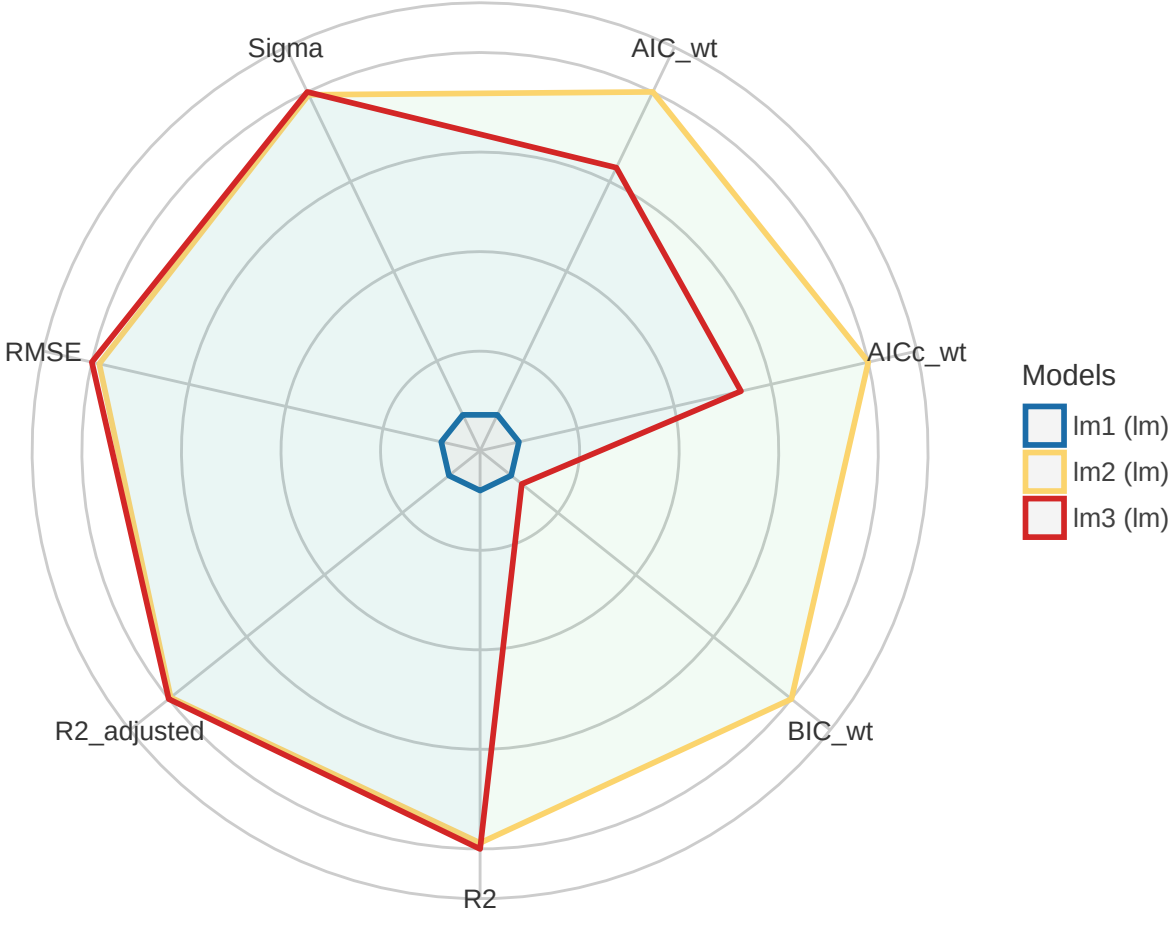

Normality of Residuals
Dots should fall along the line
help("plot.see_check_normality")
Sample Quantile Deviations
Standard Normal Distribution Quantiles
2
1
0
−1
−2
−2
−1
0
1
2

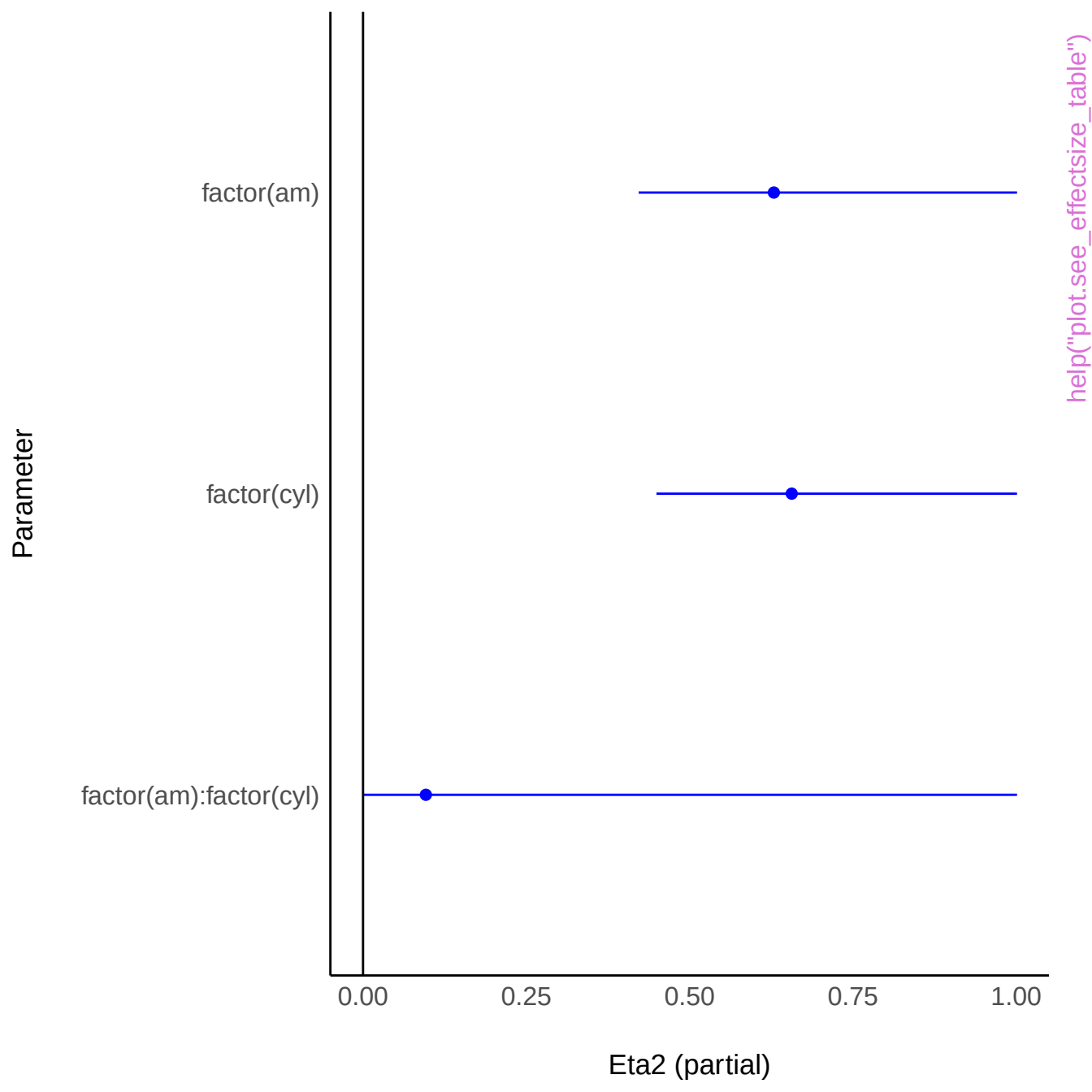

Normality of Residuals
Dots should fall along the line
help("plot.see_check_normality")
Sample Quantile Deviations
Standard Normal Distribution Quantiles
2
1
0
−1
−2
−2
−1
0
1
2

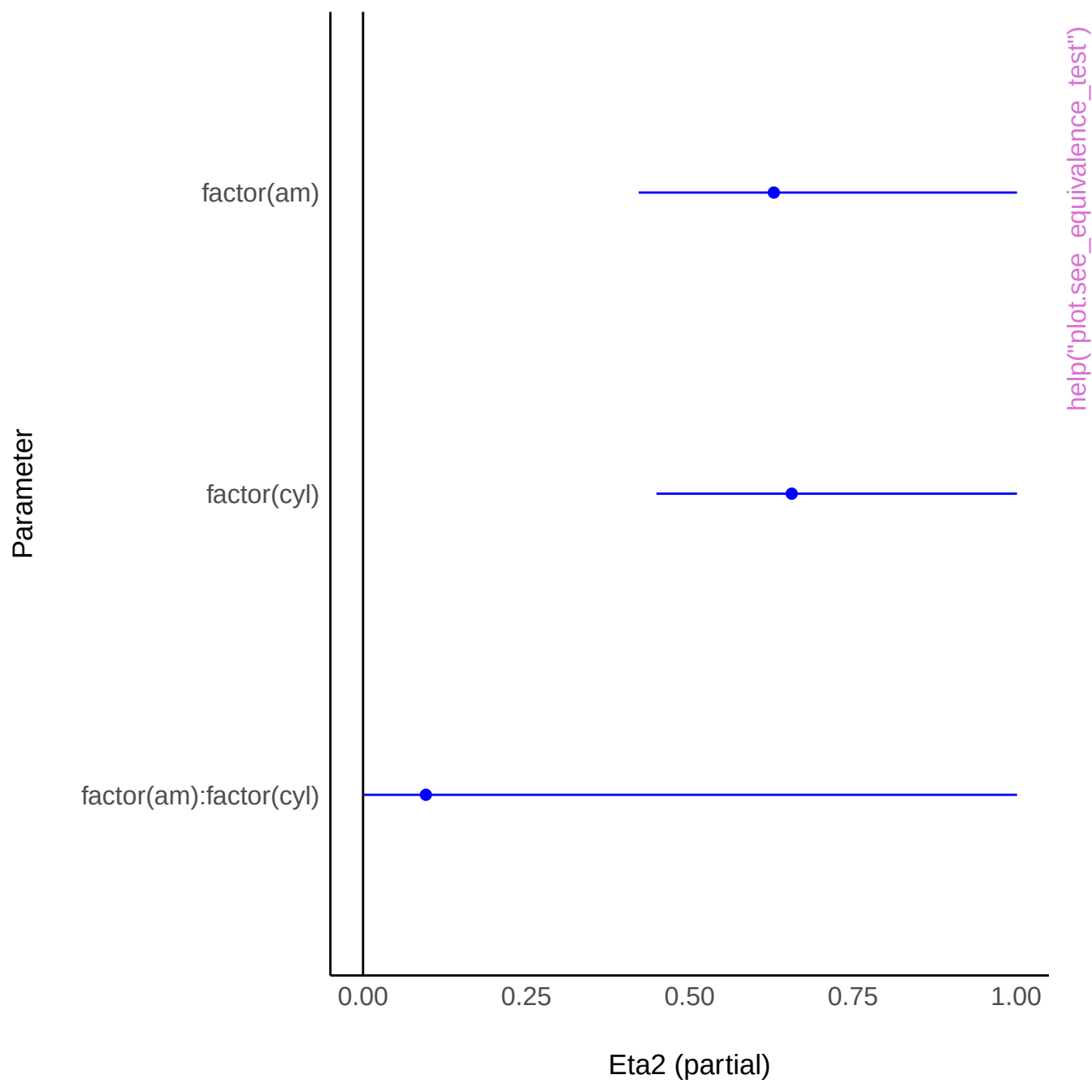

Influential Observations
Points should be inside the contour lines
8
4
0
−4
−8
Std. Residuals
0.0
0.1
0.2
0.3
Leverage (hii)
0.7
0.7
15
16
33
34
31
help("plot.see_check_outliers")

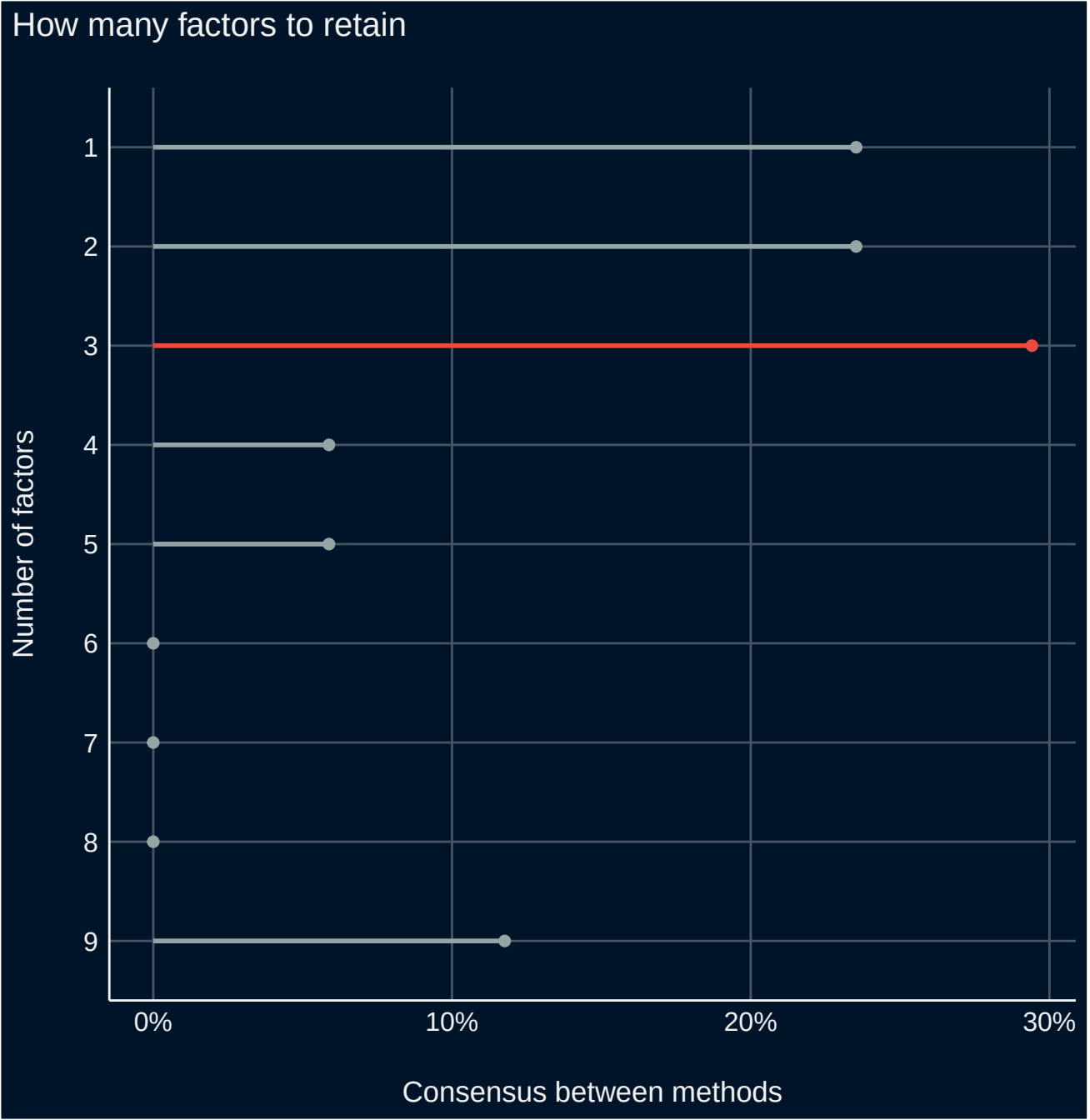

Species (versicolor)
Species (virginica)
Petal Length
Species (versicolor) × Petal Length
Species (virginica) × Petal Length
Parameter
−4
−2
0
2
Estimate
Model
lm1
lm2
lm3
help("plot.see_compare_parameters")

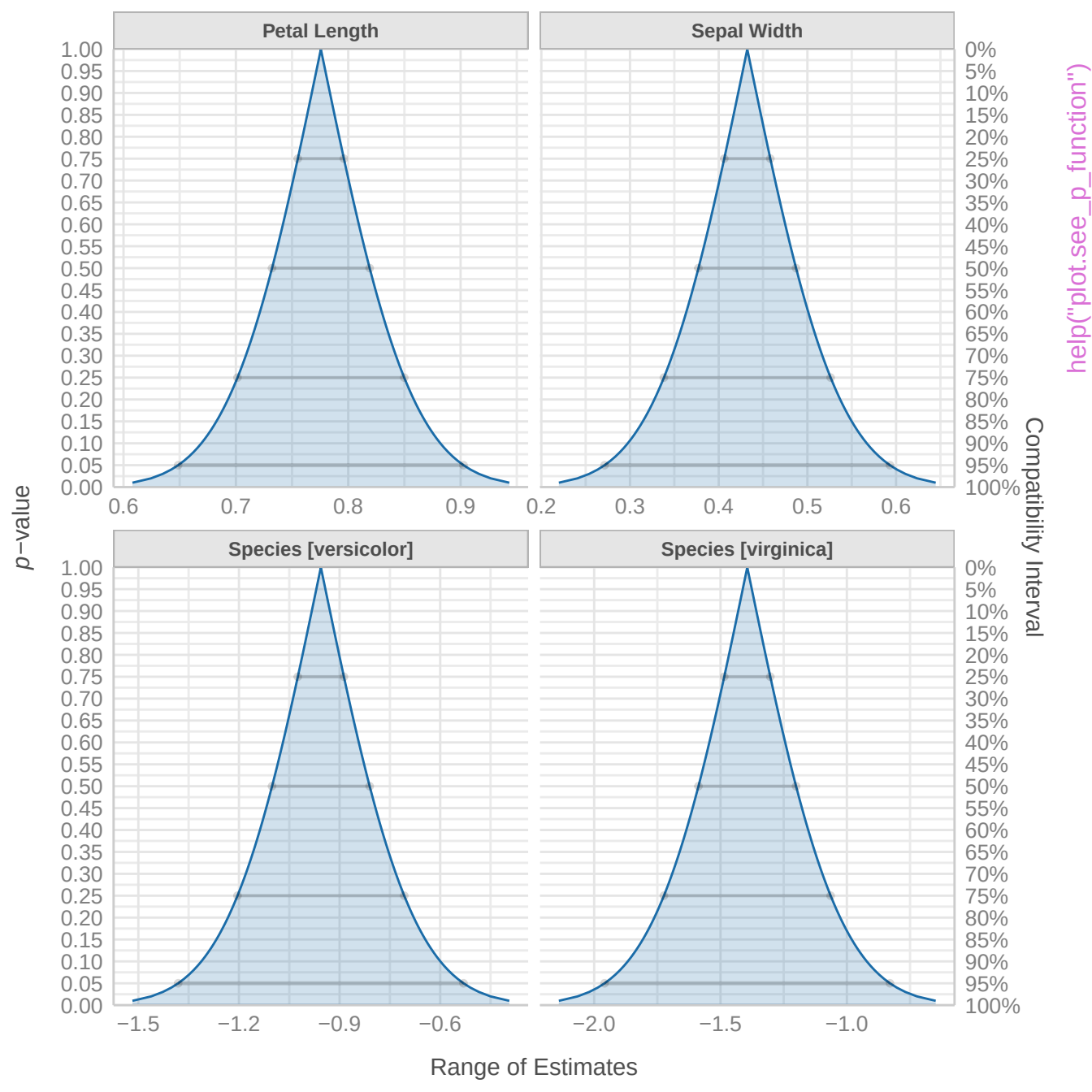
Comparison of Model Indices

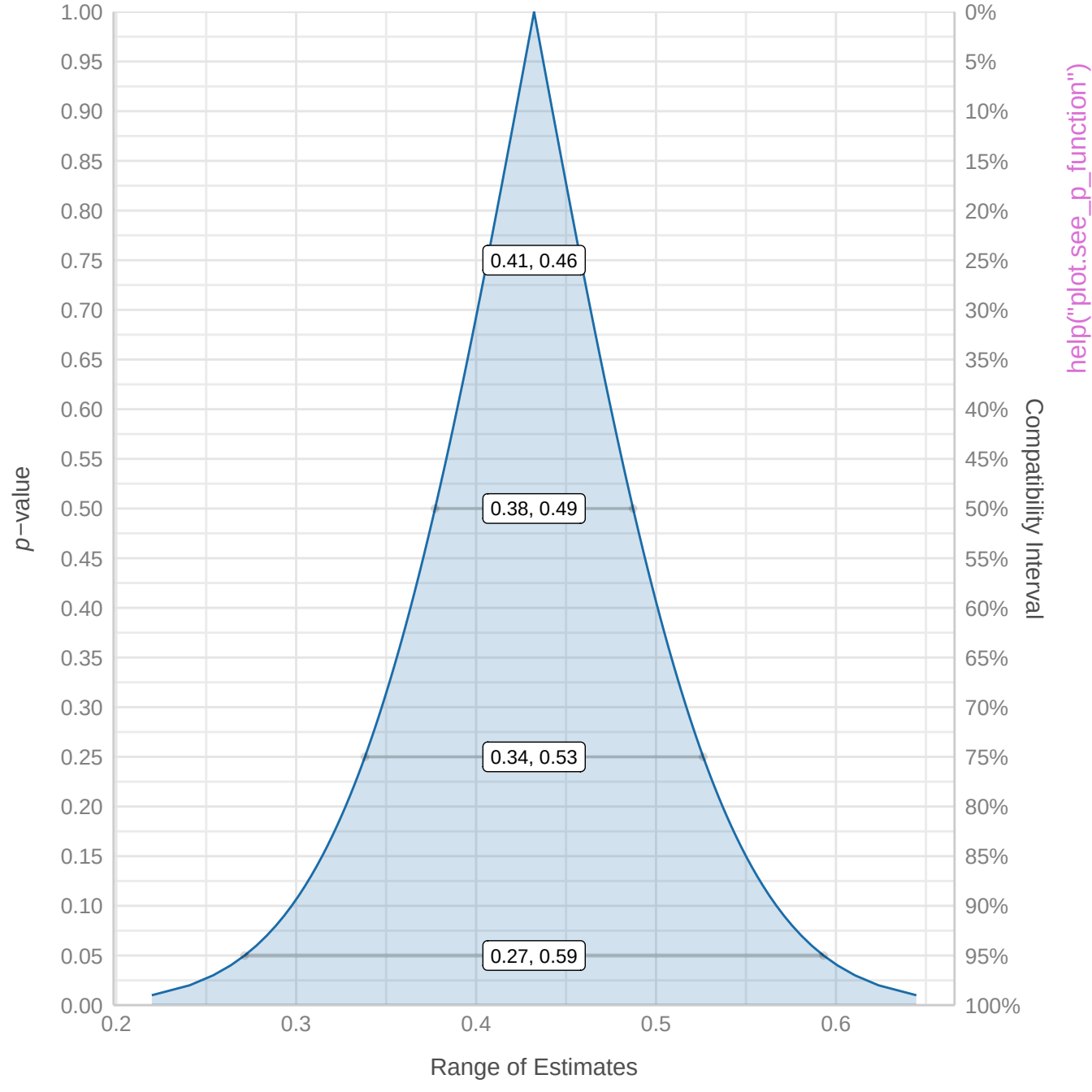


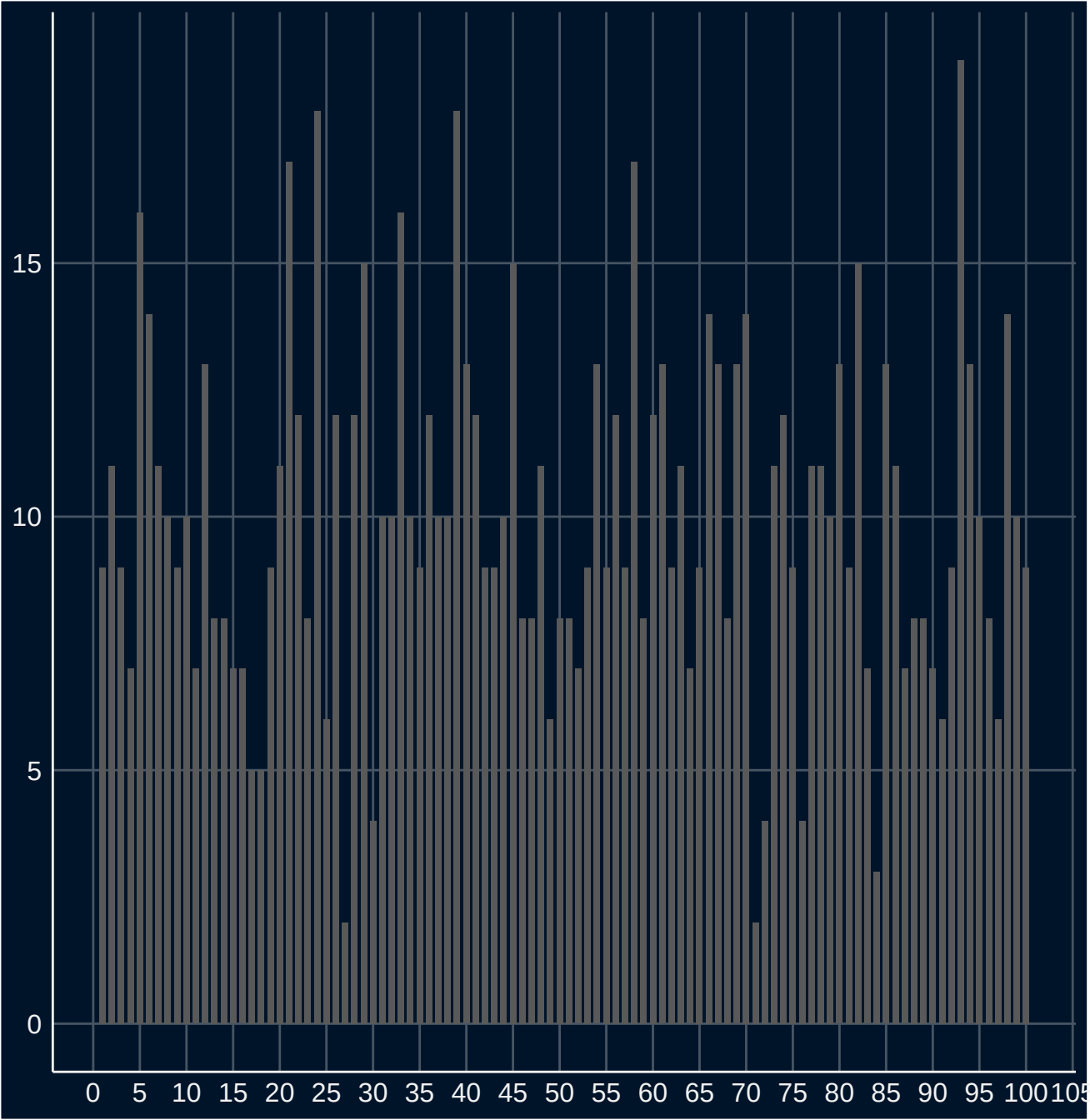

factor(am)
factor(cyl)
factor(am):factor(cyl)
Parameter
0.00
0.25
0.50
0.75
1.00
Eta2 (partial)
help("plot.see_effectsize_table")

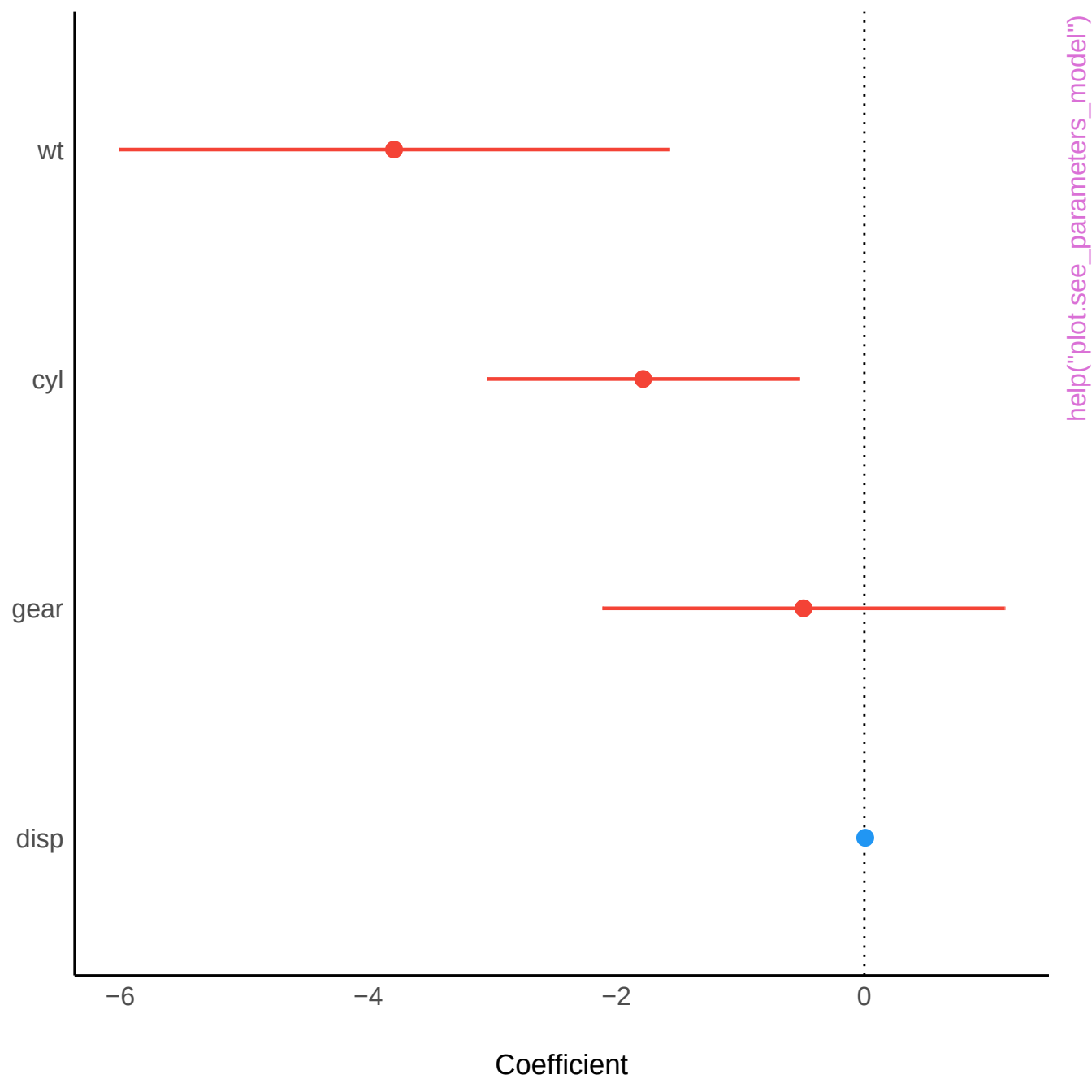

factor(am)
factor(cyl)
factor(am):factor(cyl)
Parameter
0.00
0.25
0.50
0.75
1.00
Eta2 (partial)
help("plot.see_equivalence_test")

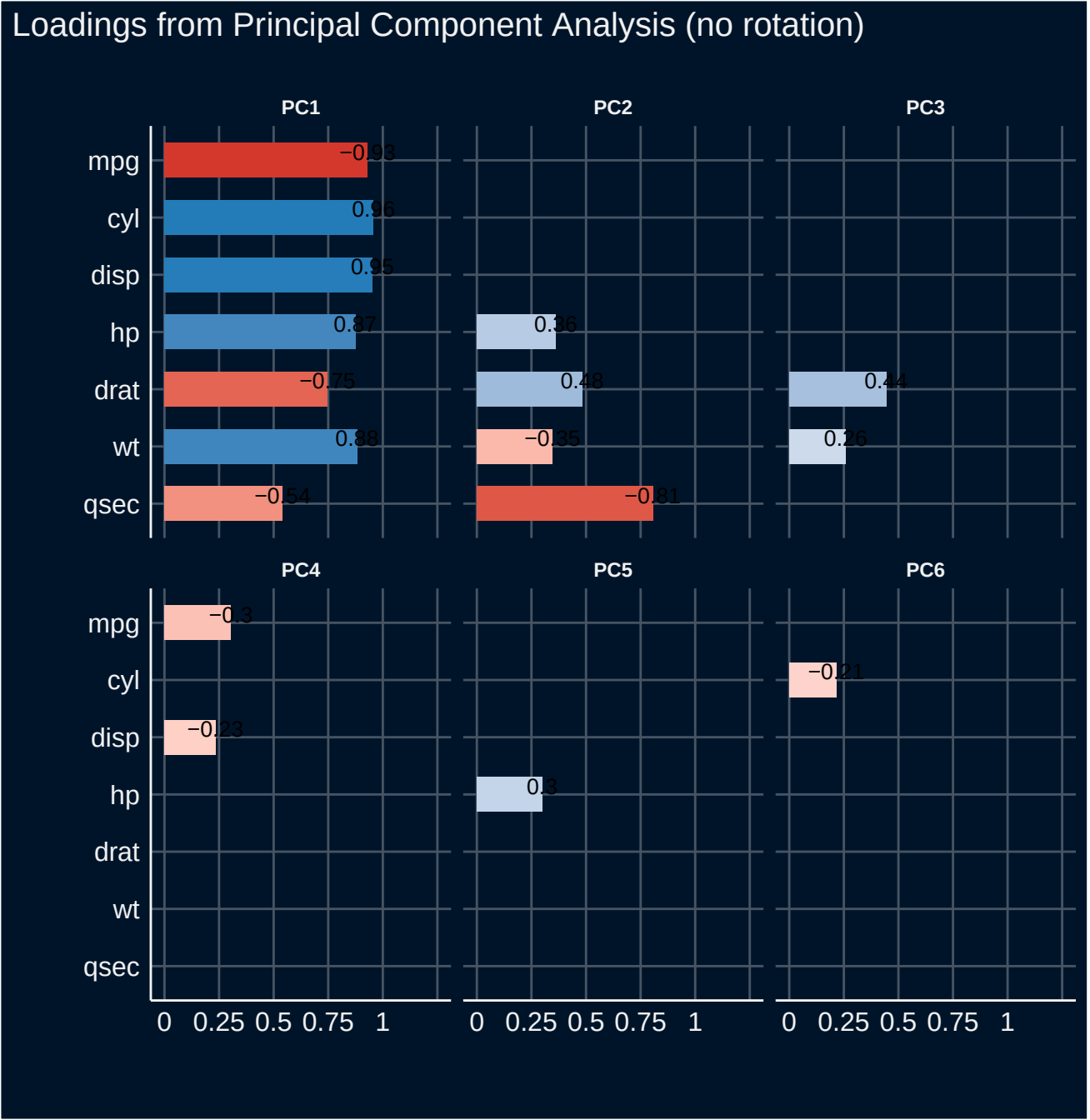

How many factors to retain
help("plot.see_n_factors")
Number of factors
1
2
3
4
5
6
7
8
9
0%
10%
20%
30%
Consensus between methods

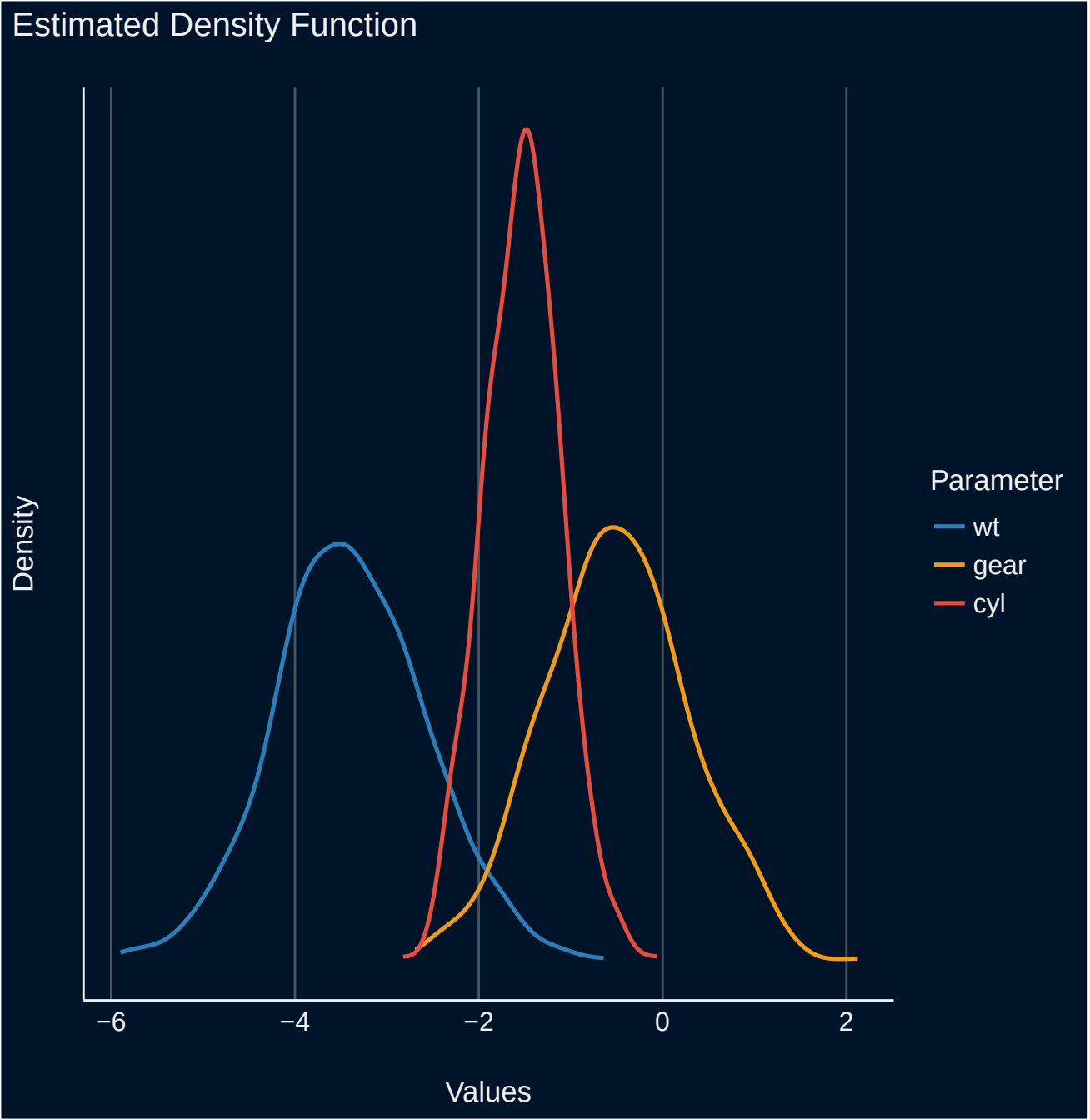

Petal Length
Sepal Width
Species [versicolor]
Species [virginica]
p−value
Compatibility Interval
Range of Estimates
help("plot.see_p_function")

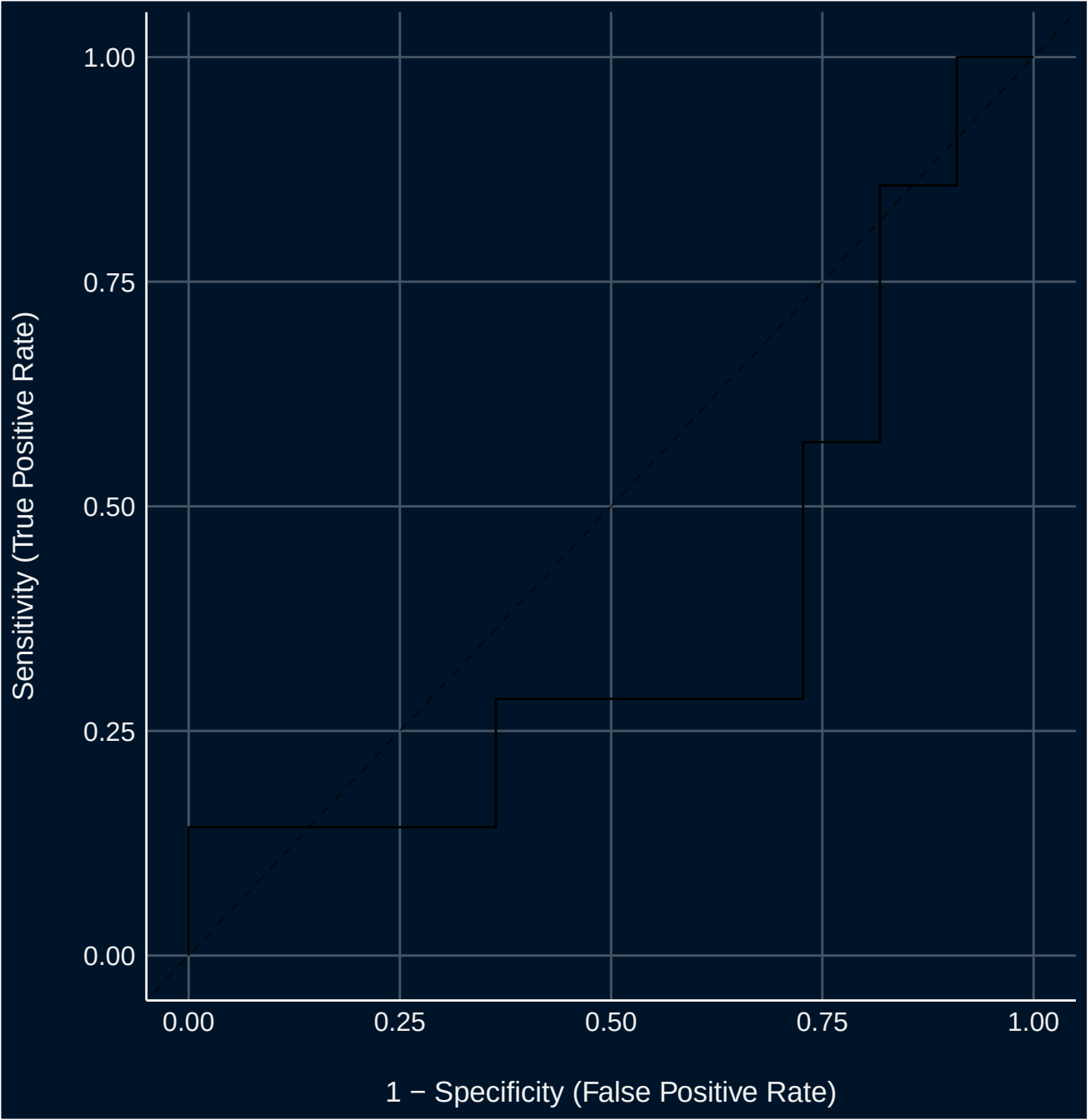

0.41, 0.46
0.38, 0.49
0.34, 0.53
0.27, 0.59
p−value
Compatibility Interval
Range of Estimates
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0%
5%
10%
15%
20%
25%
30%
35%
40%
45%
50%
55%
60%
65%
70%
75%
80%
85%
90%
95%
100%
0.2
0.3
0.4
0.5
0.6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

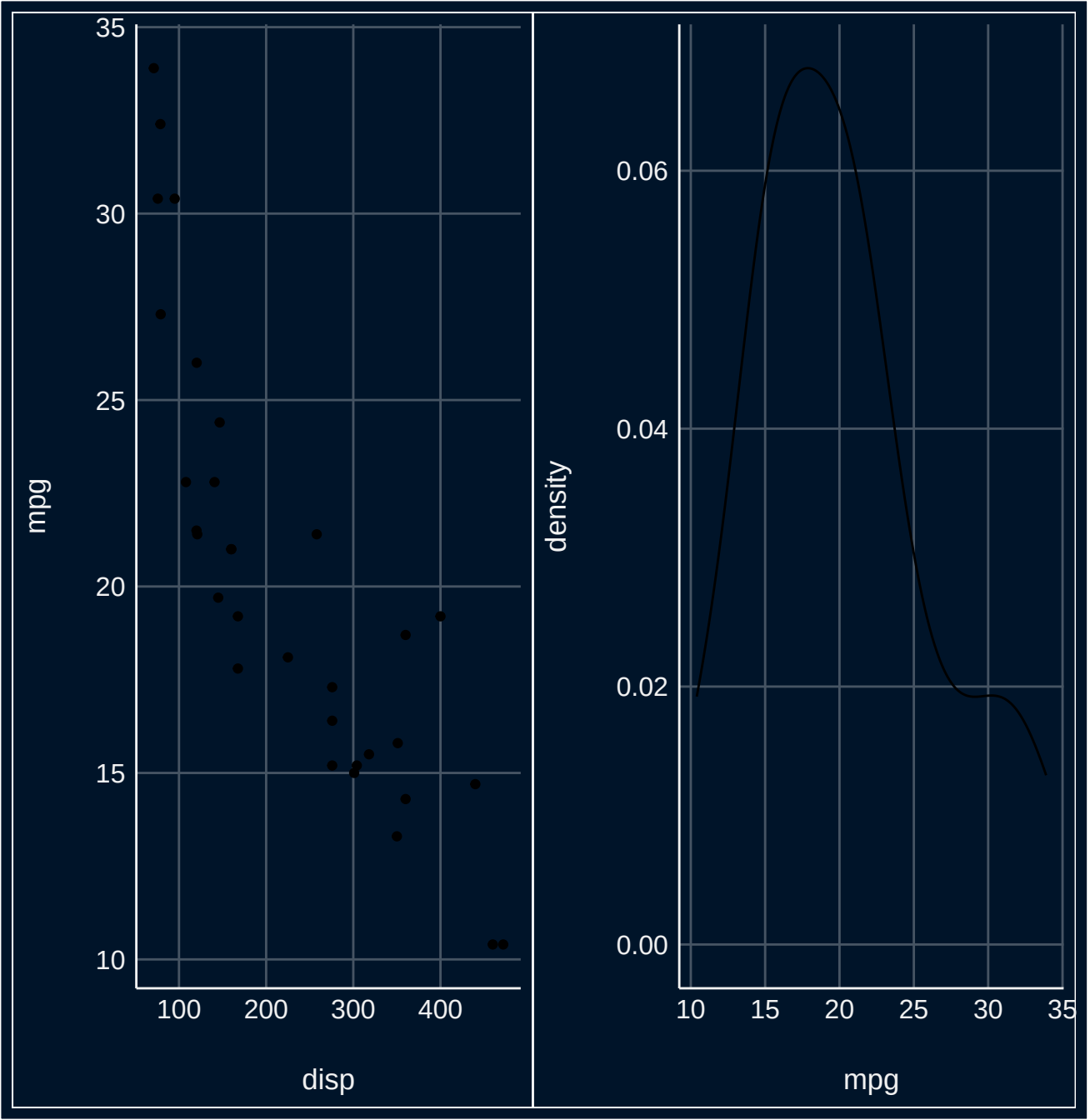

help("plot.see_parameters_distribution")
0
5
10
15
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105


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

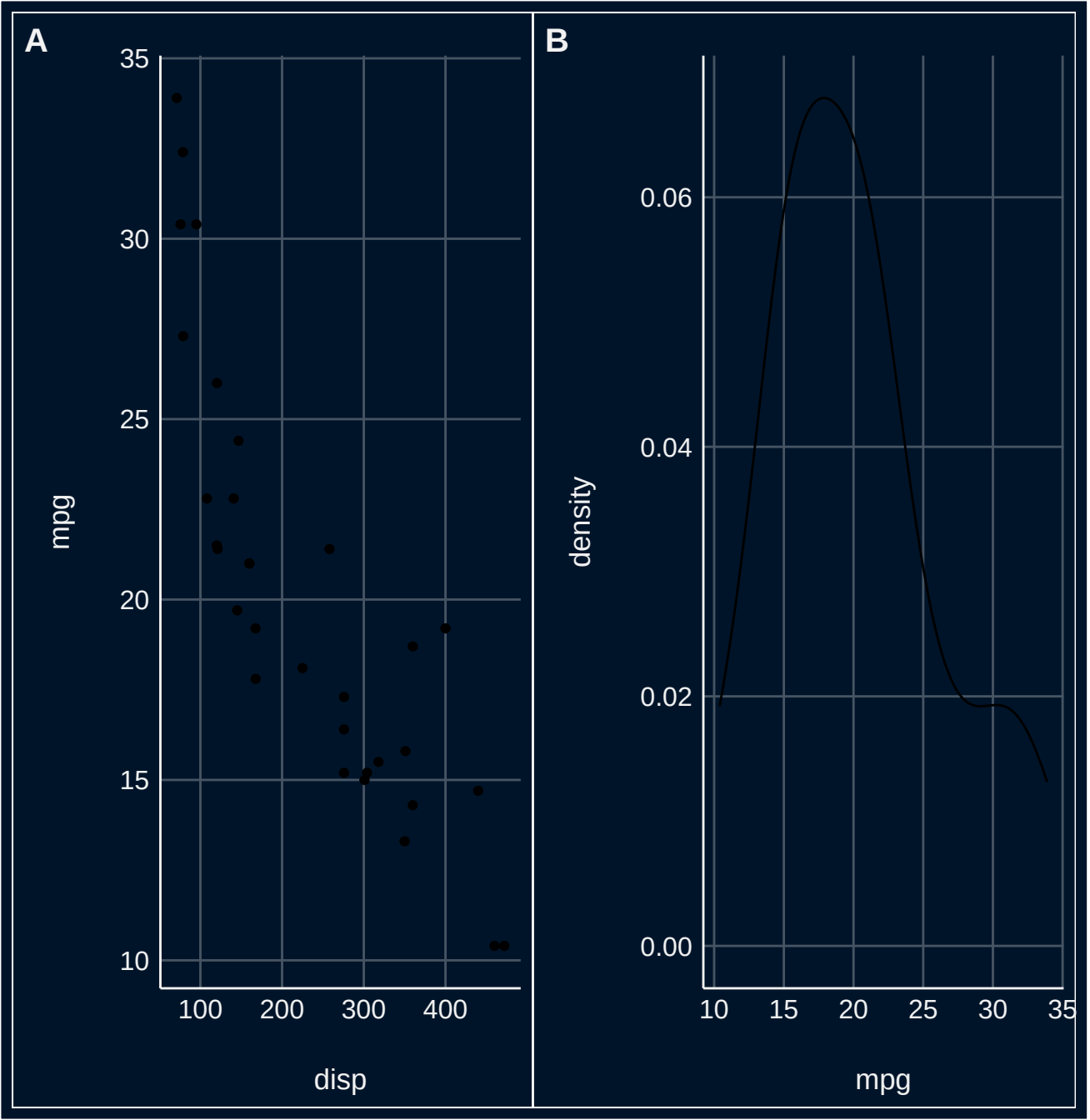

Loadings from Principal Component Analysis (no rotation)
PC1
PC2
PC3
PC4
PC5
PC6
mpg
cyl
disp
hp
drat
wt
qsec
−0.93
0.96
0.95
0.87
−0.75
0.88
−0.54
0.36
0.48
−0.35
−0.81
0.44
0.26
−0.3
−0.23
0.3
−0.21
0
0.25
0.5
0.75
1
help("plot.see_parameters_pca")


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

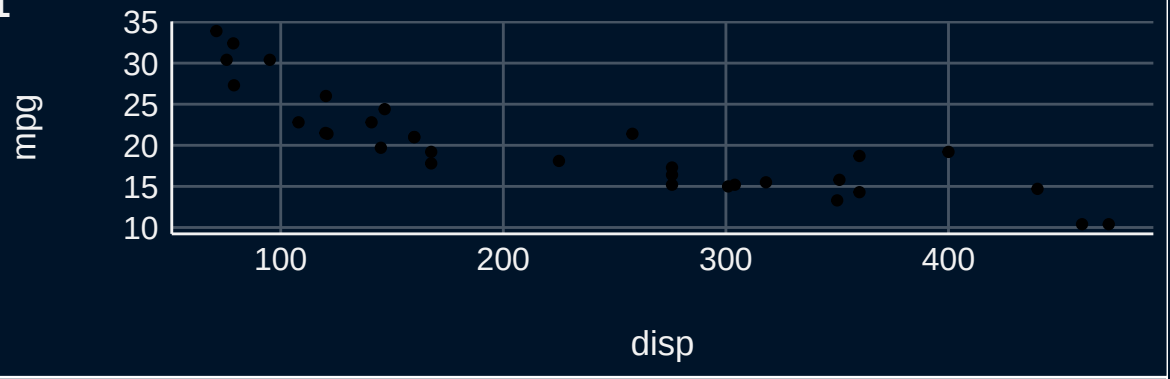


Fig. 2

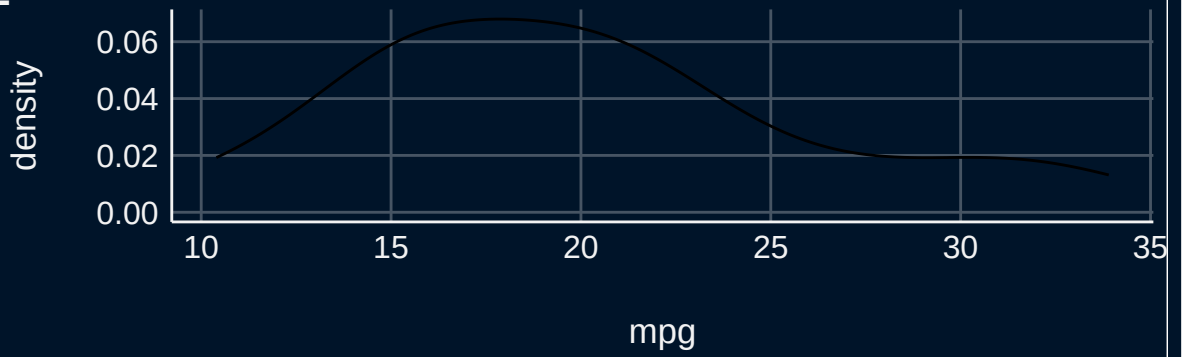
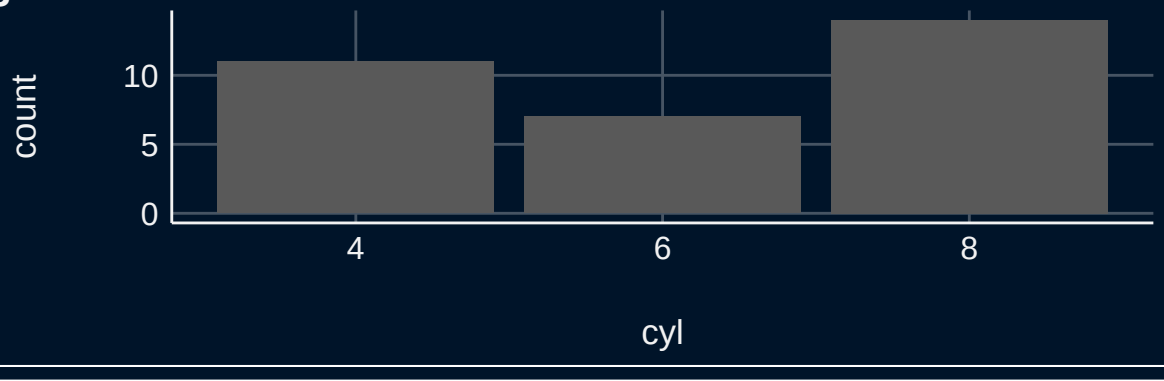
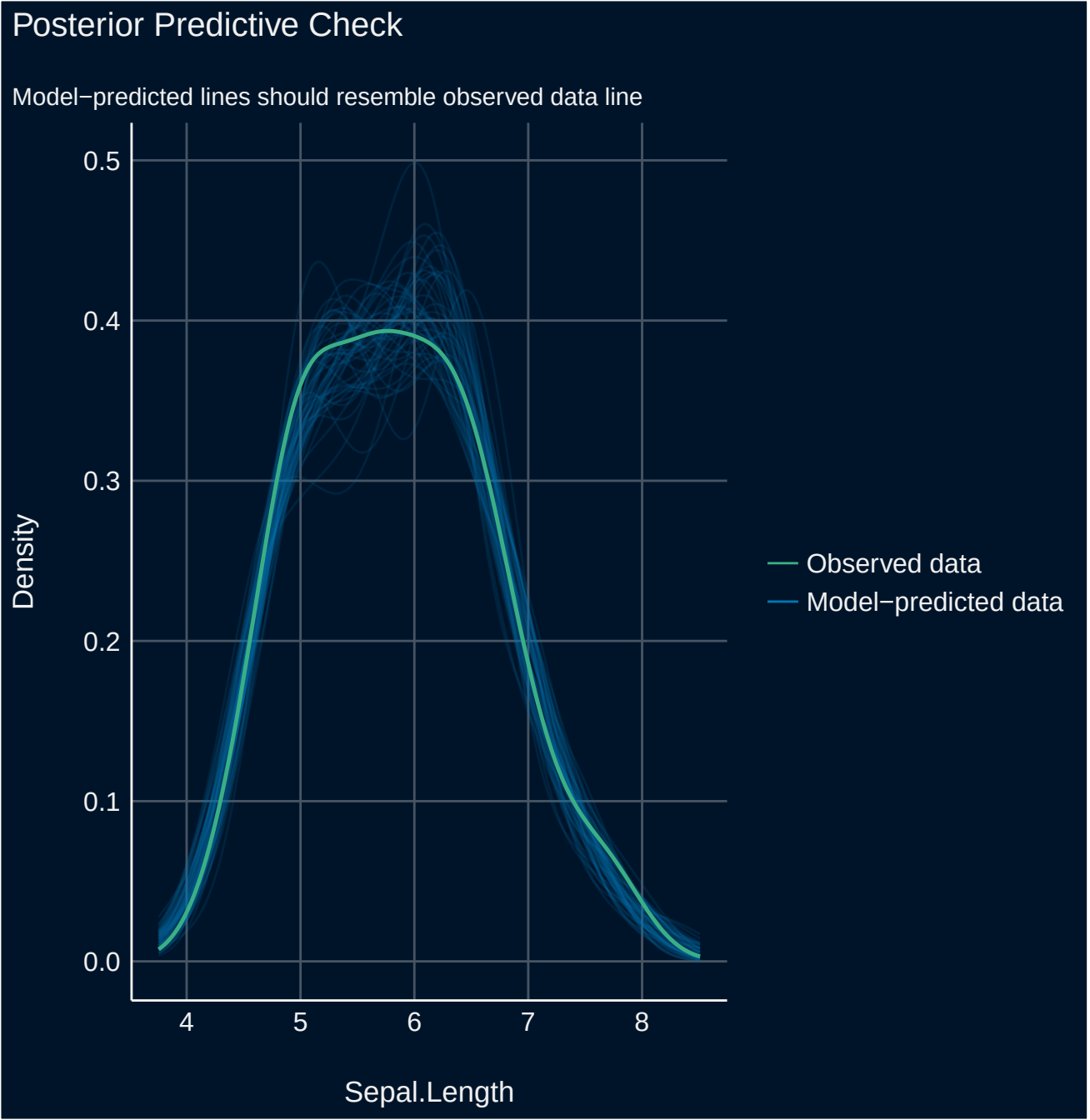
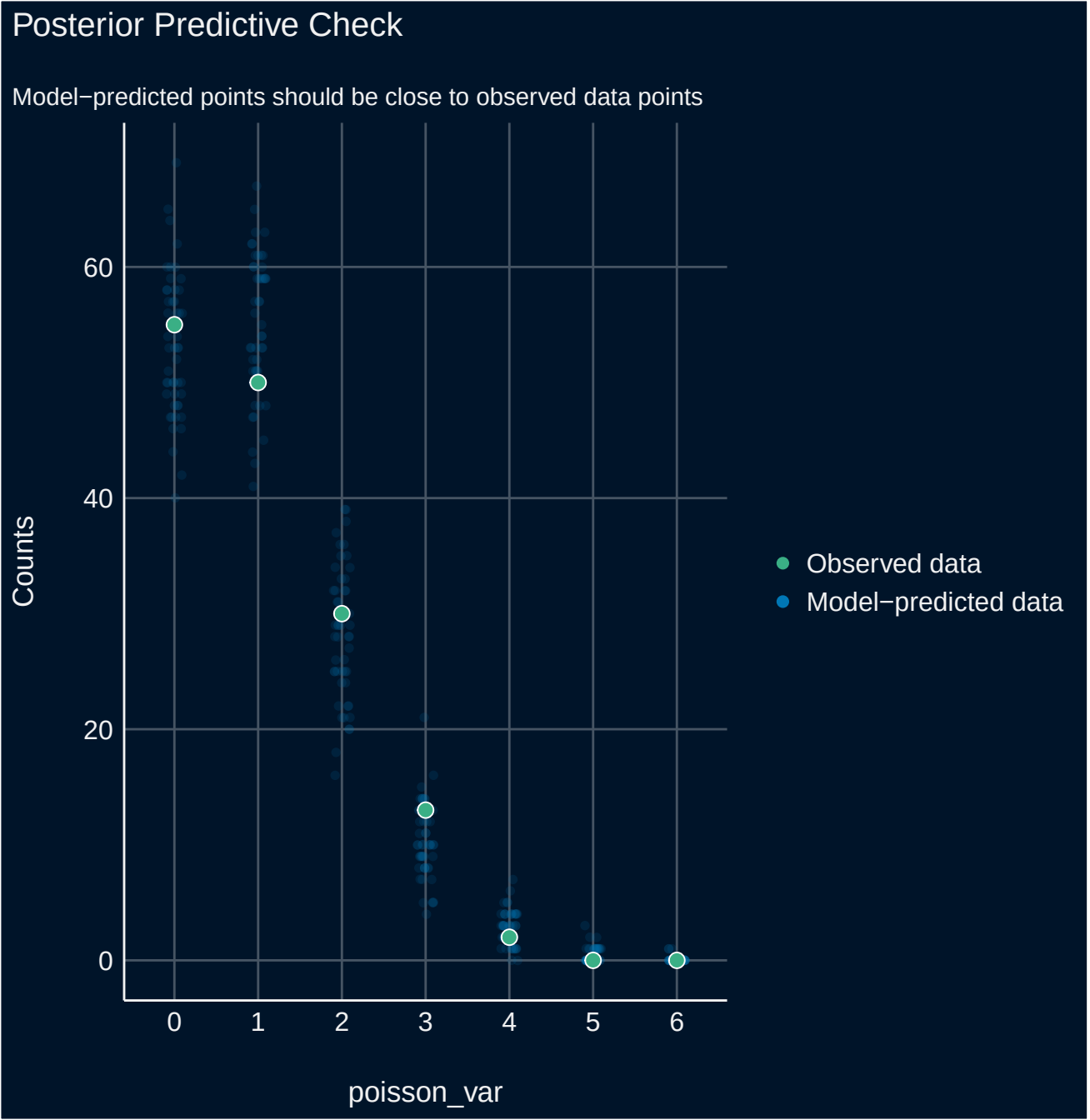


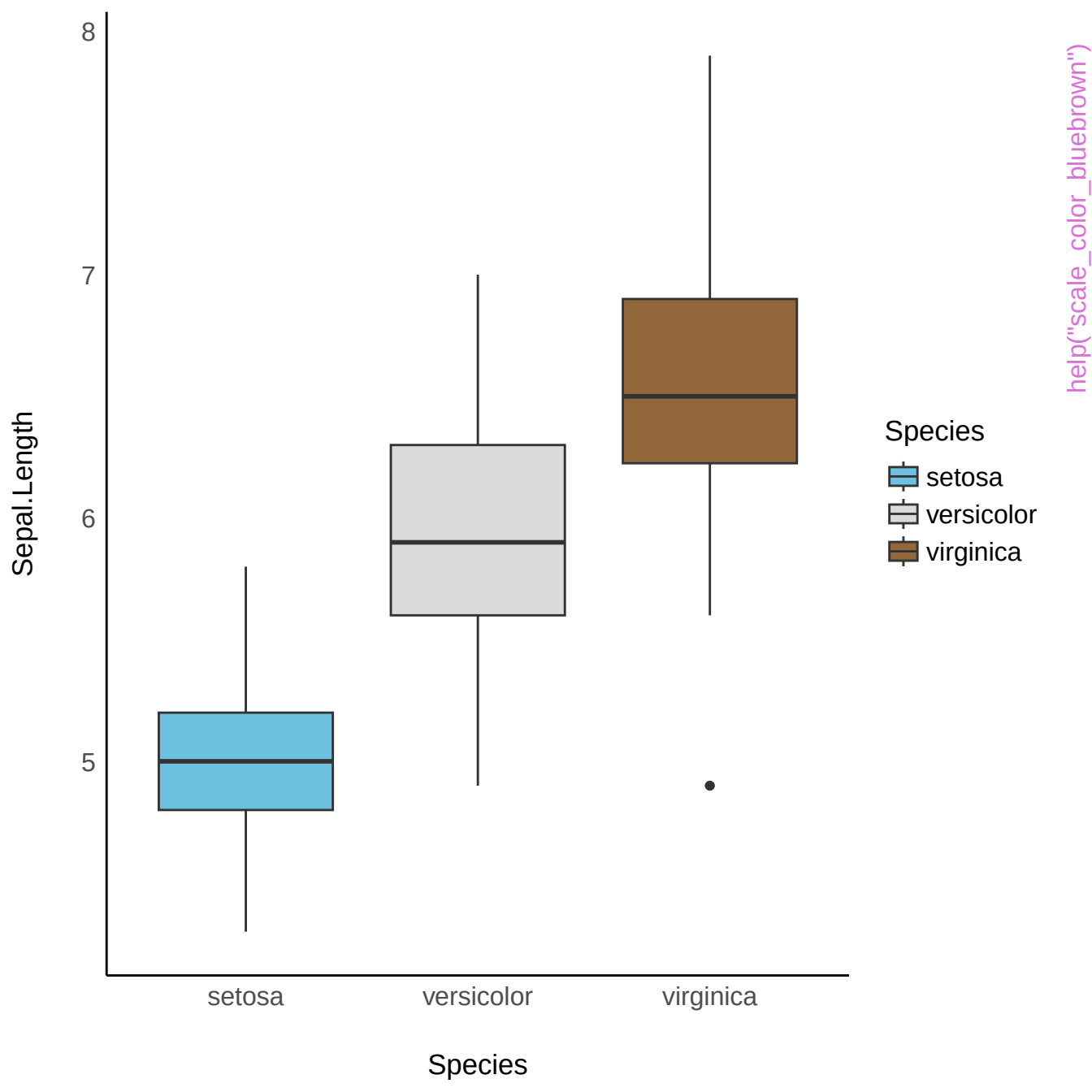
Fig. 3

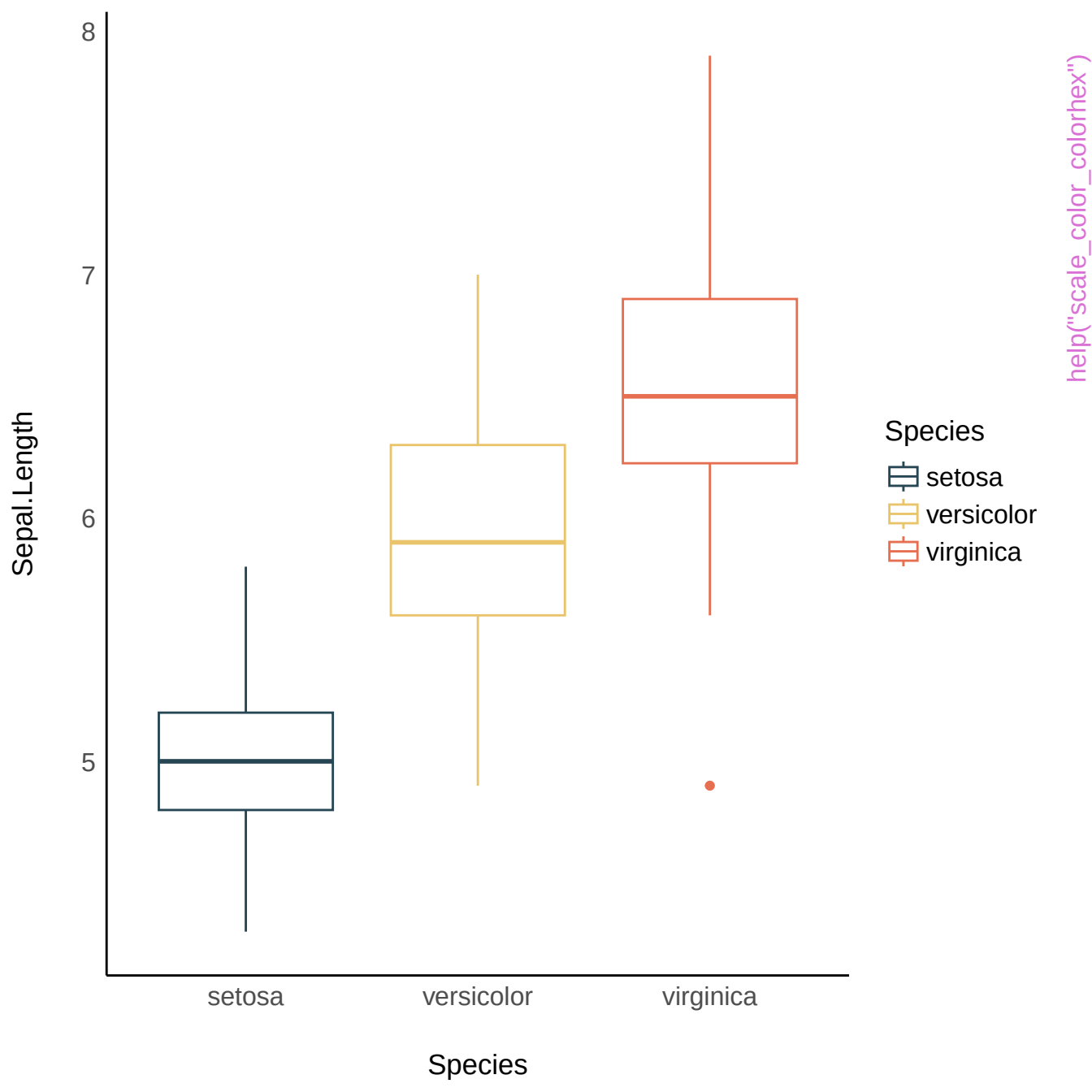


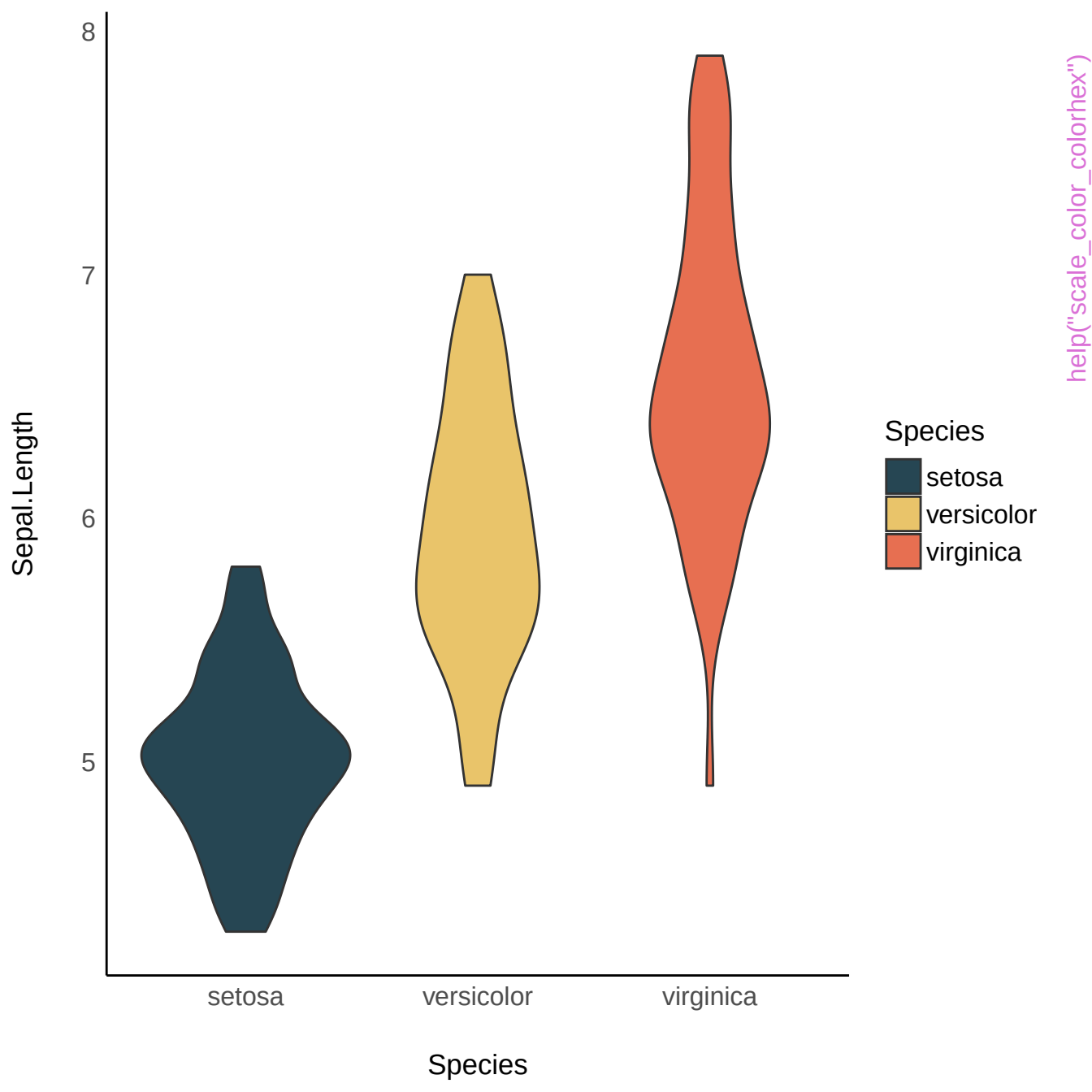
help("plots")

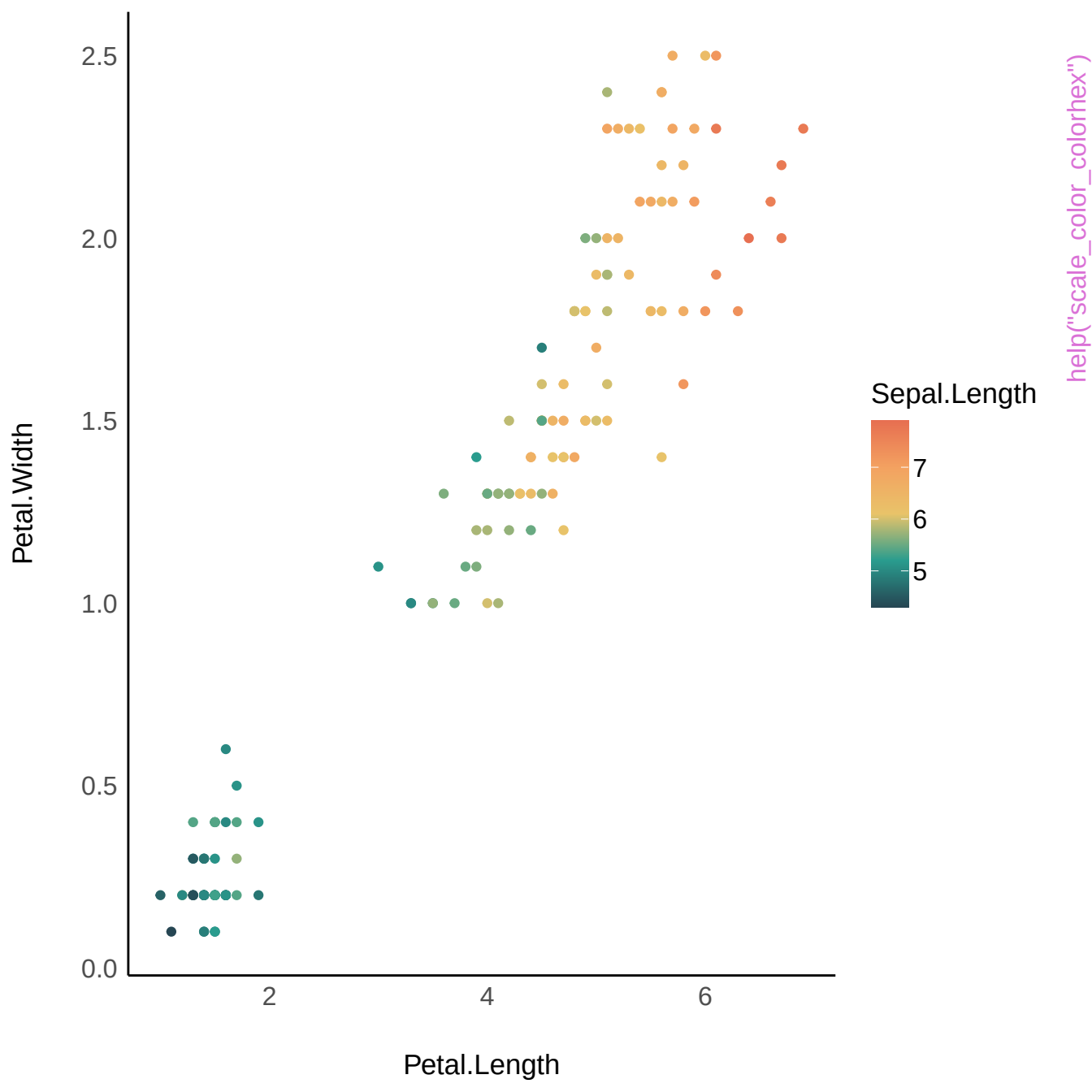

Posterior Predictive Check
Model−predicted lines should resemble observed data line
0.5
0.4
0.3
0.2
0.1
0.0
Density
4
5
6
7
8
Sepal.Length
Observed data
Model−predicted data
help("print.see_performance_pp_check")

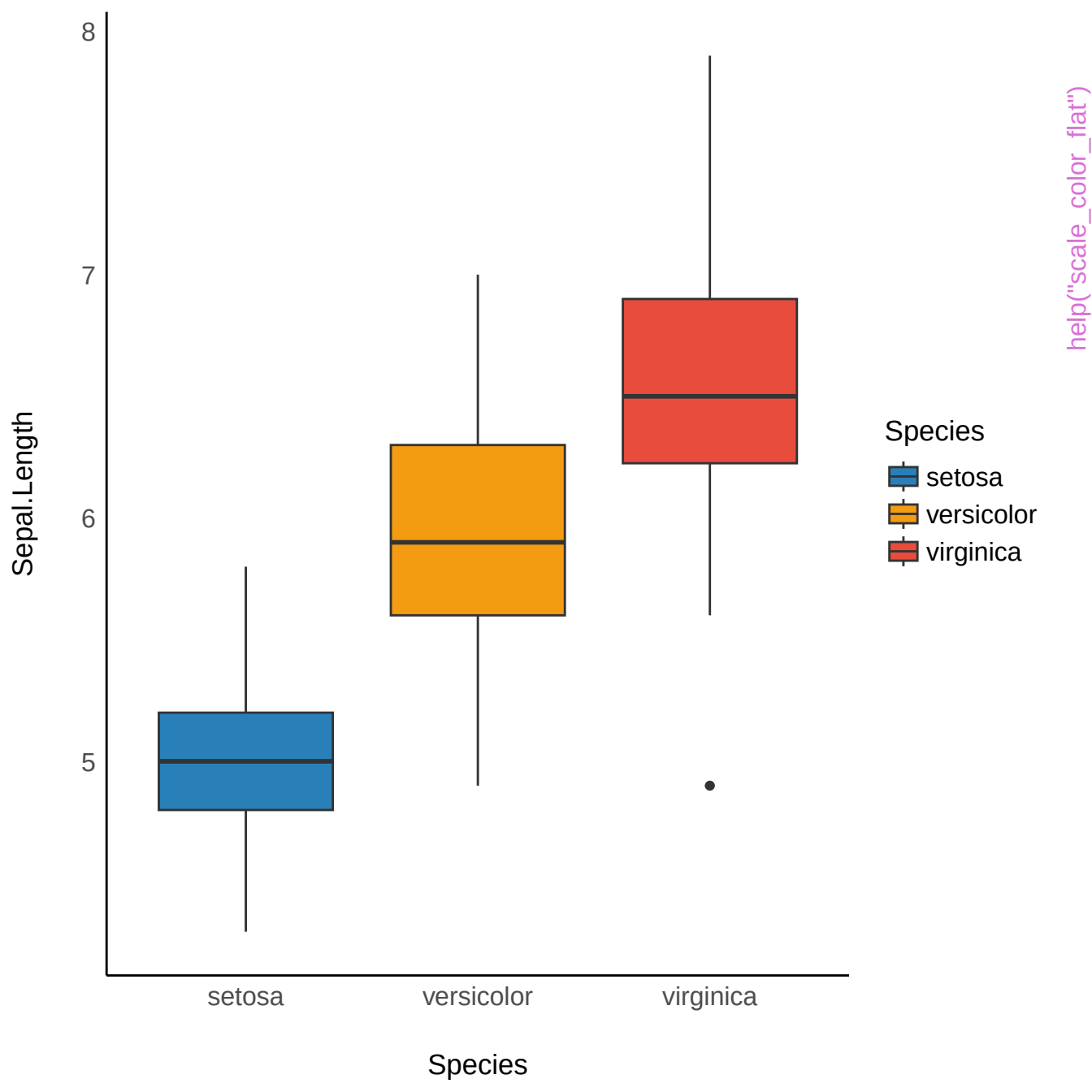

Posterior Predictive Check
Model−predicted points should be close to observed data points
Counts
60
40
20
0
0
1
2
3
4
5
6
poisson_var
Observed data
Model−predicted data
help("print.see_performance_pp_check")

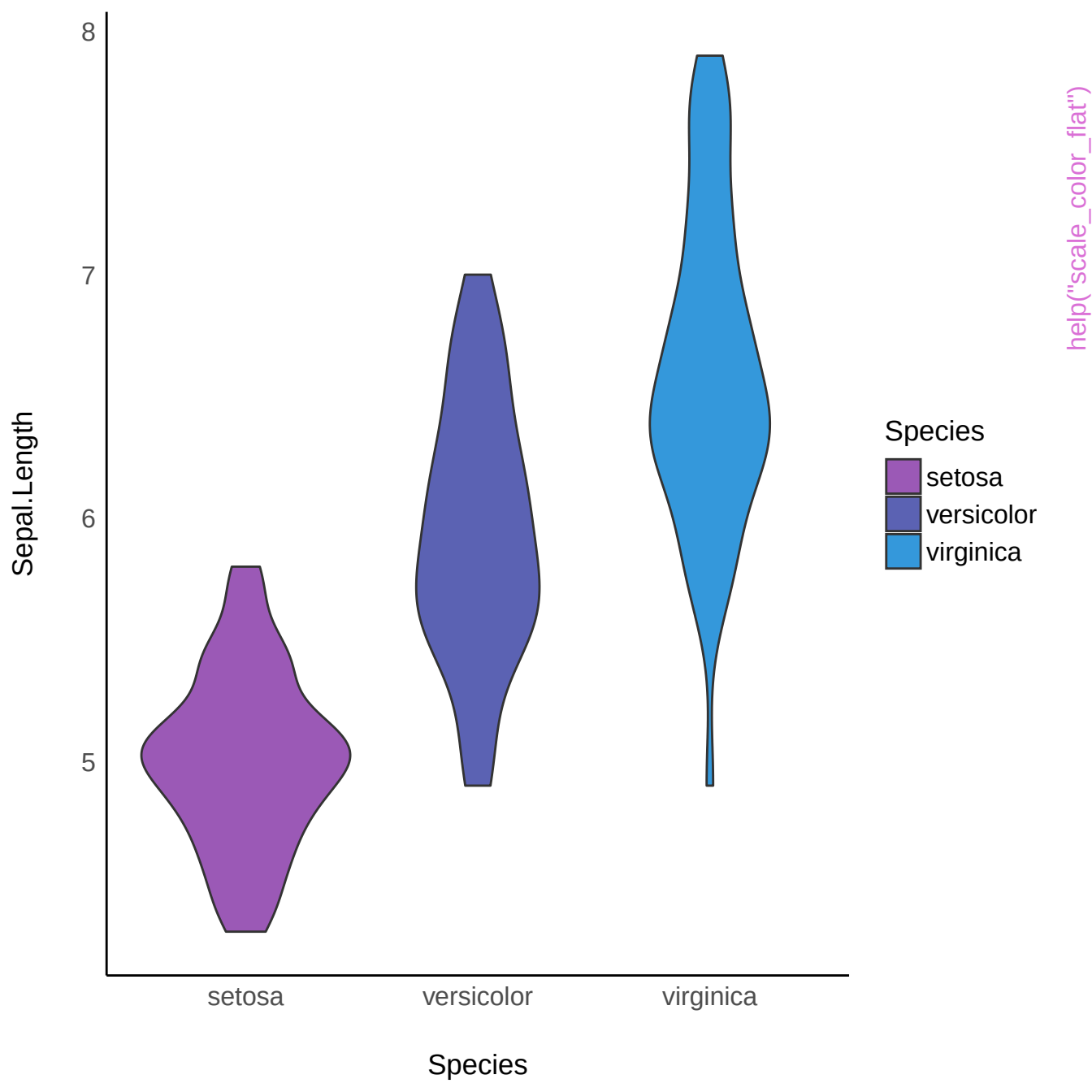

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_bluebrown")

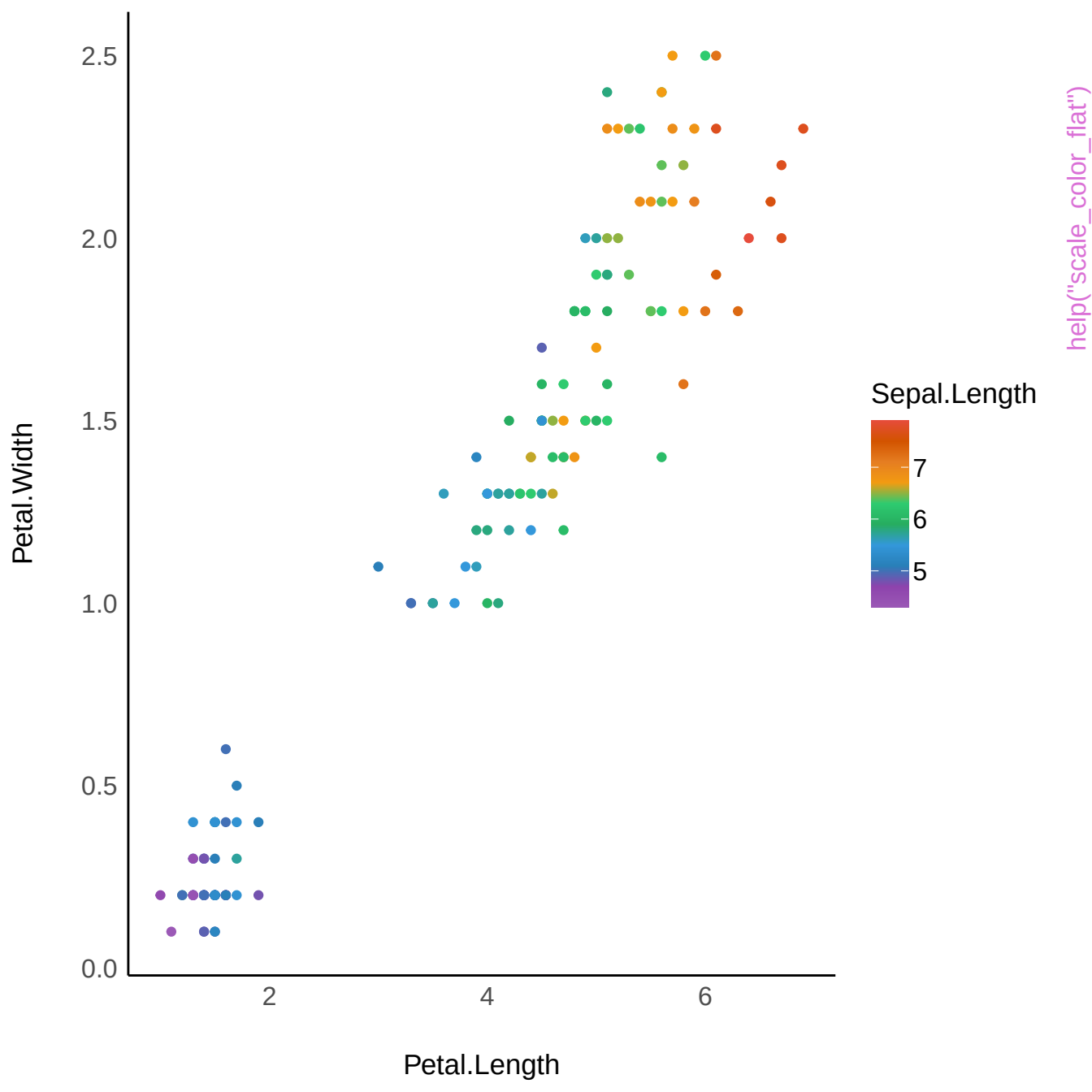

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_colorhex")

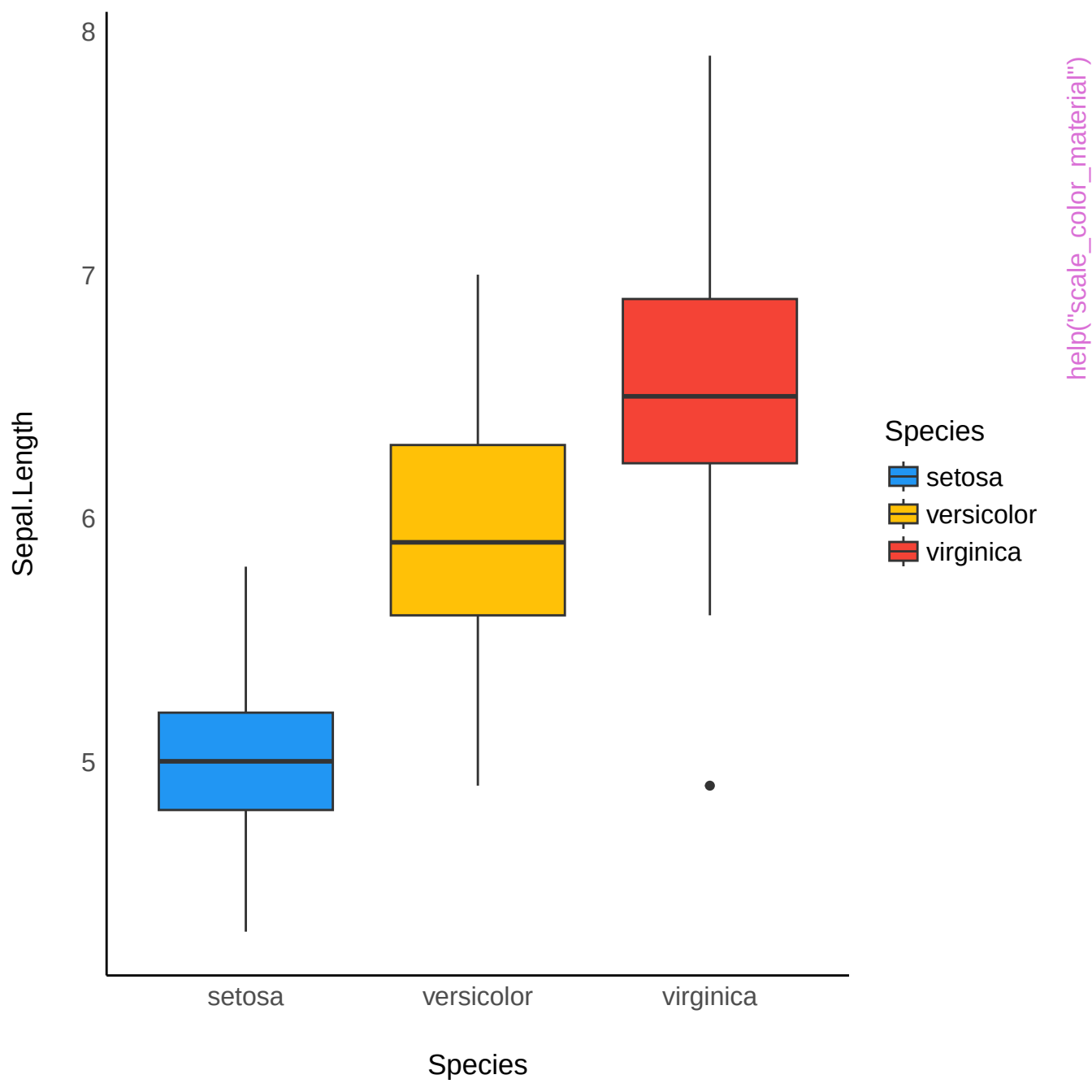

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_colorhex")

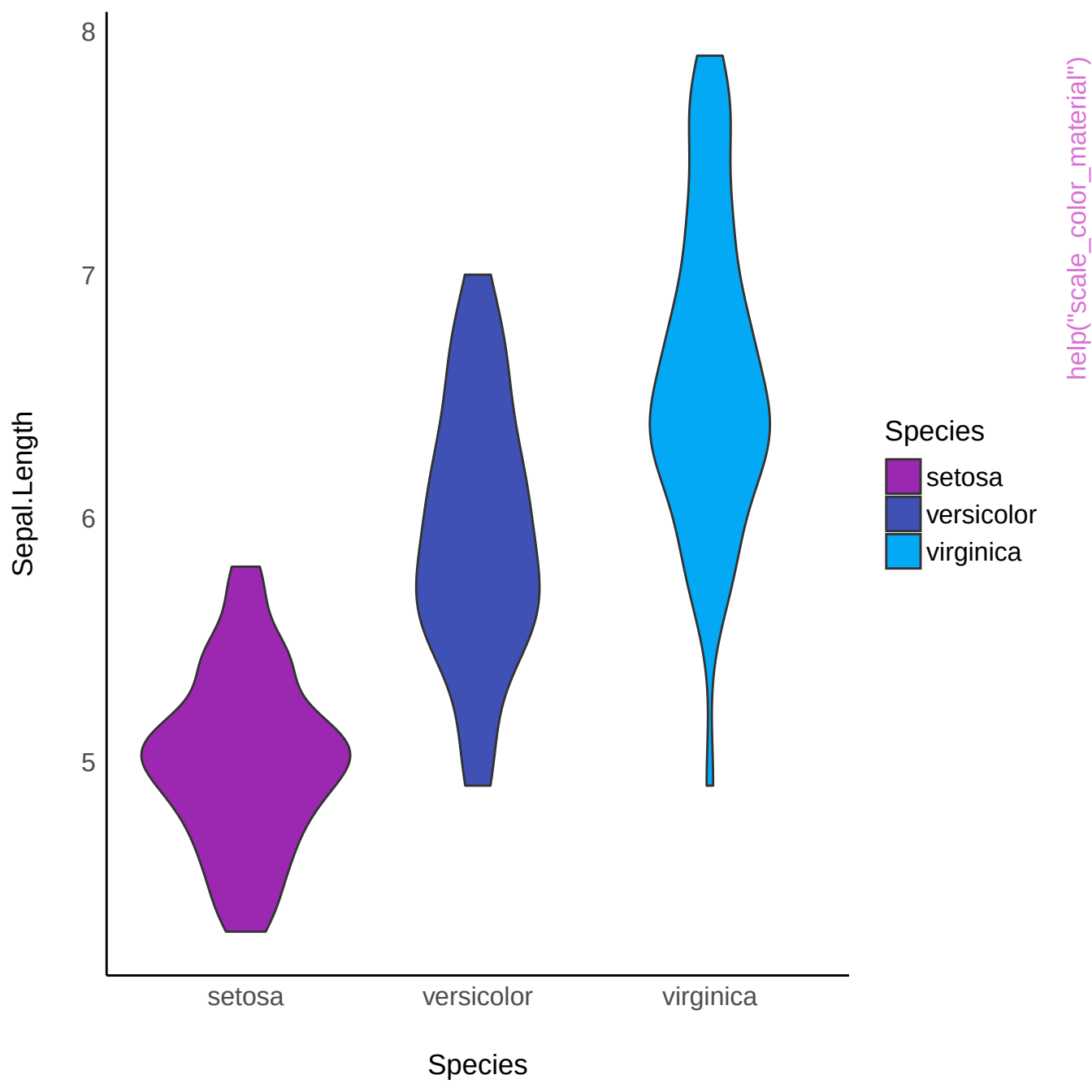

help("scale_color_colorhex")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

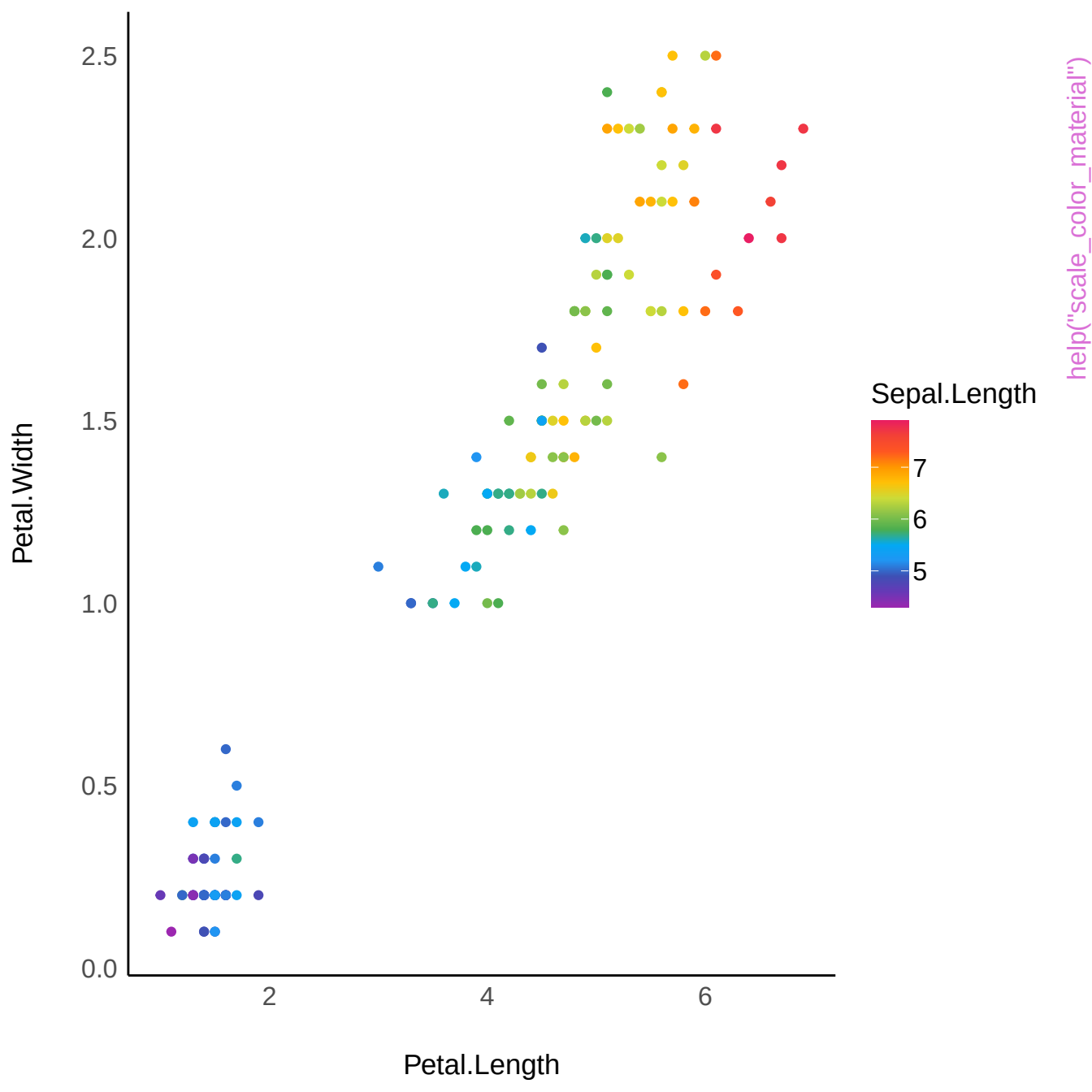

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_flat")

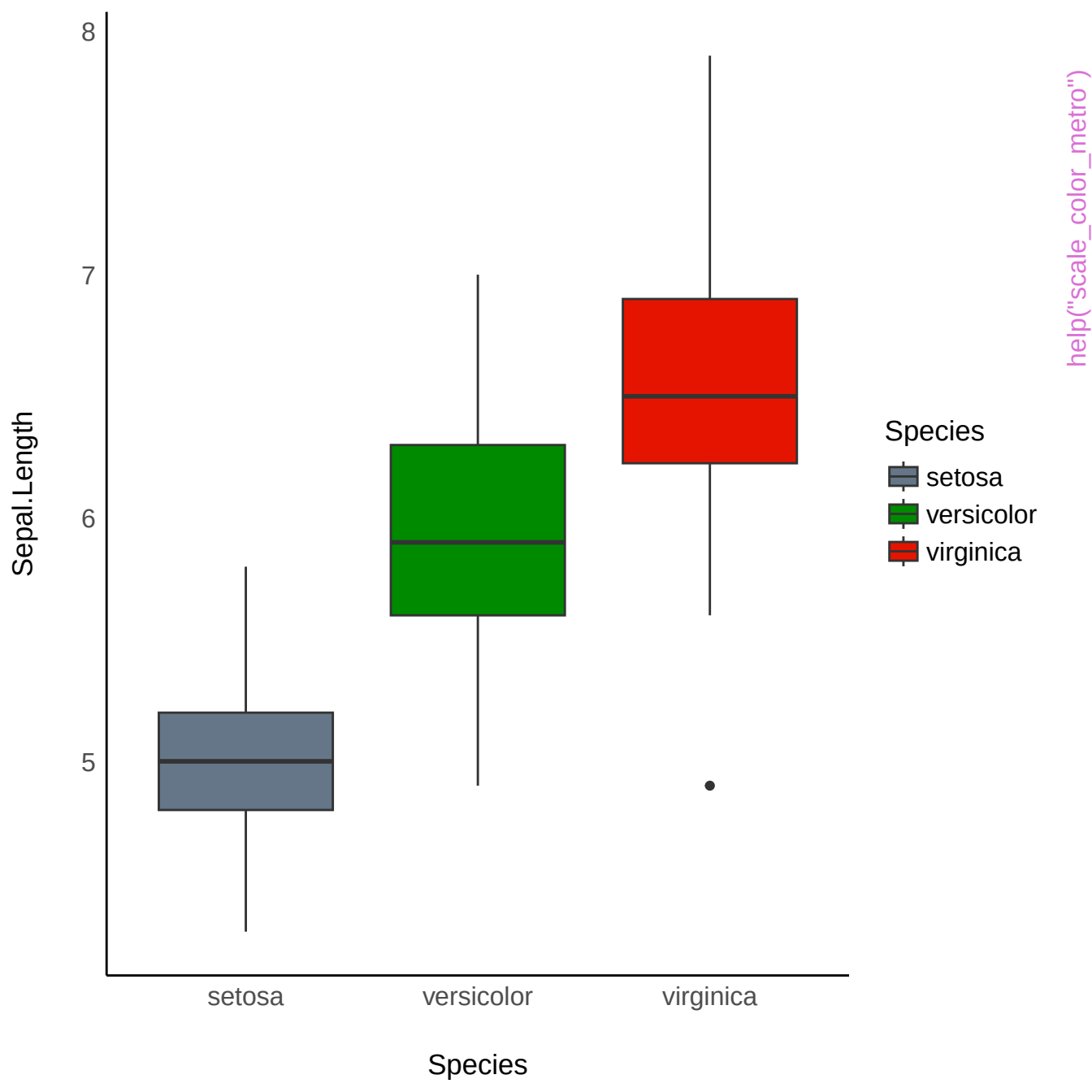

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_flat")

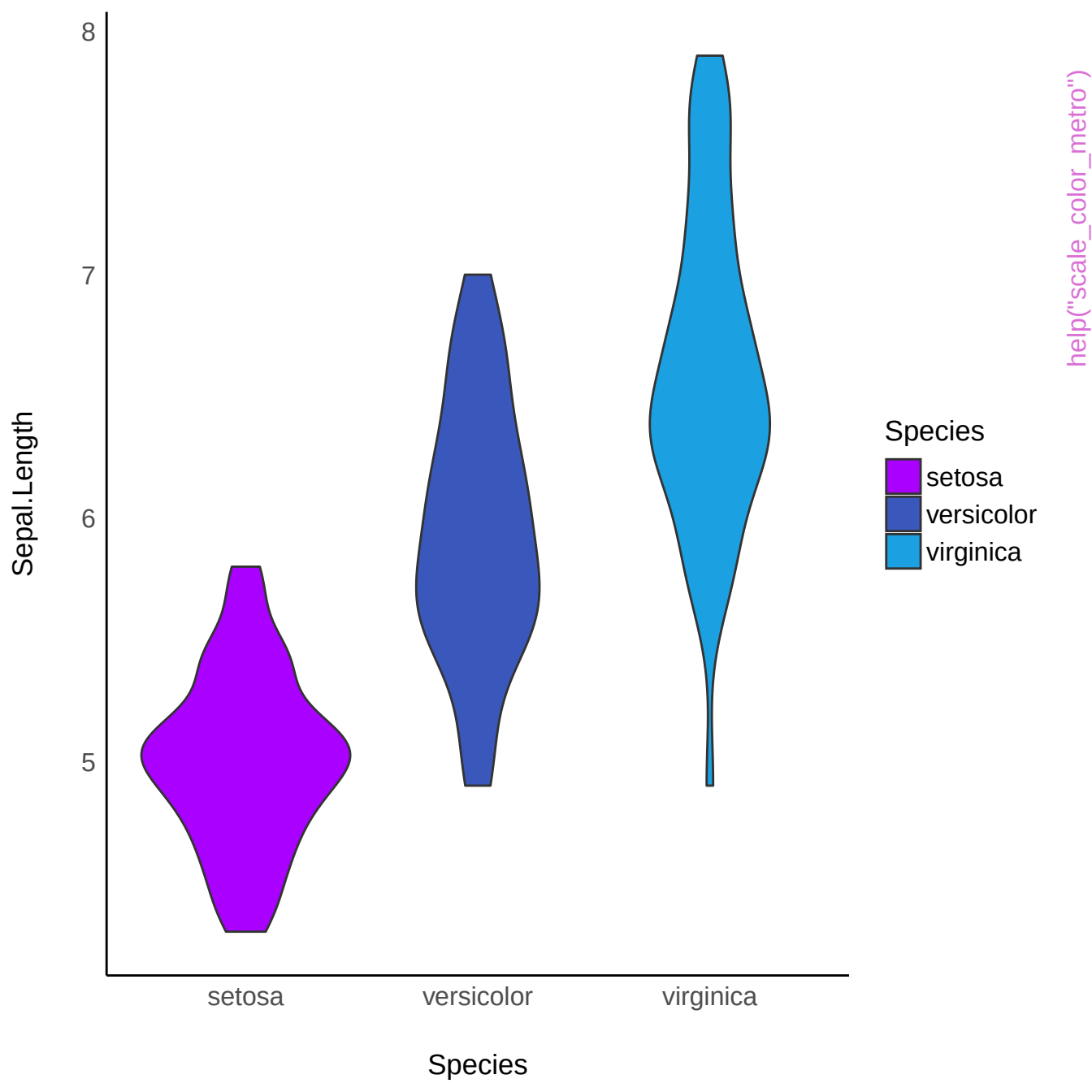

help("scale_color_flat")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

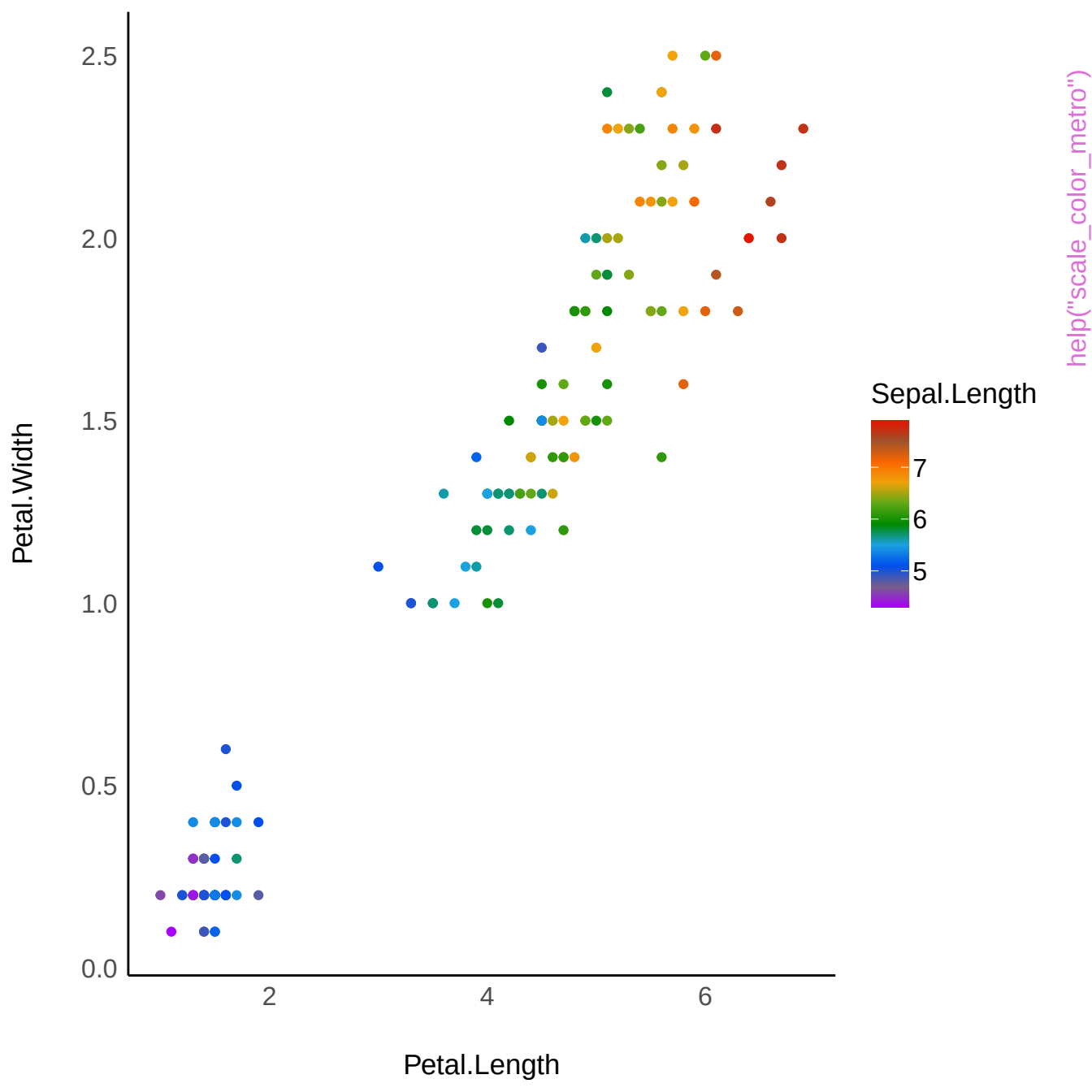

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_material")

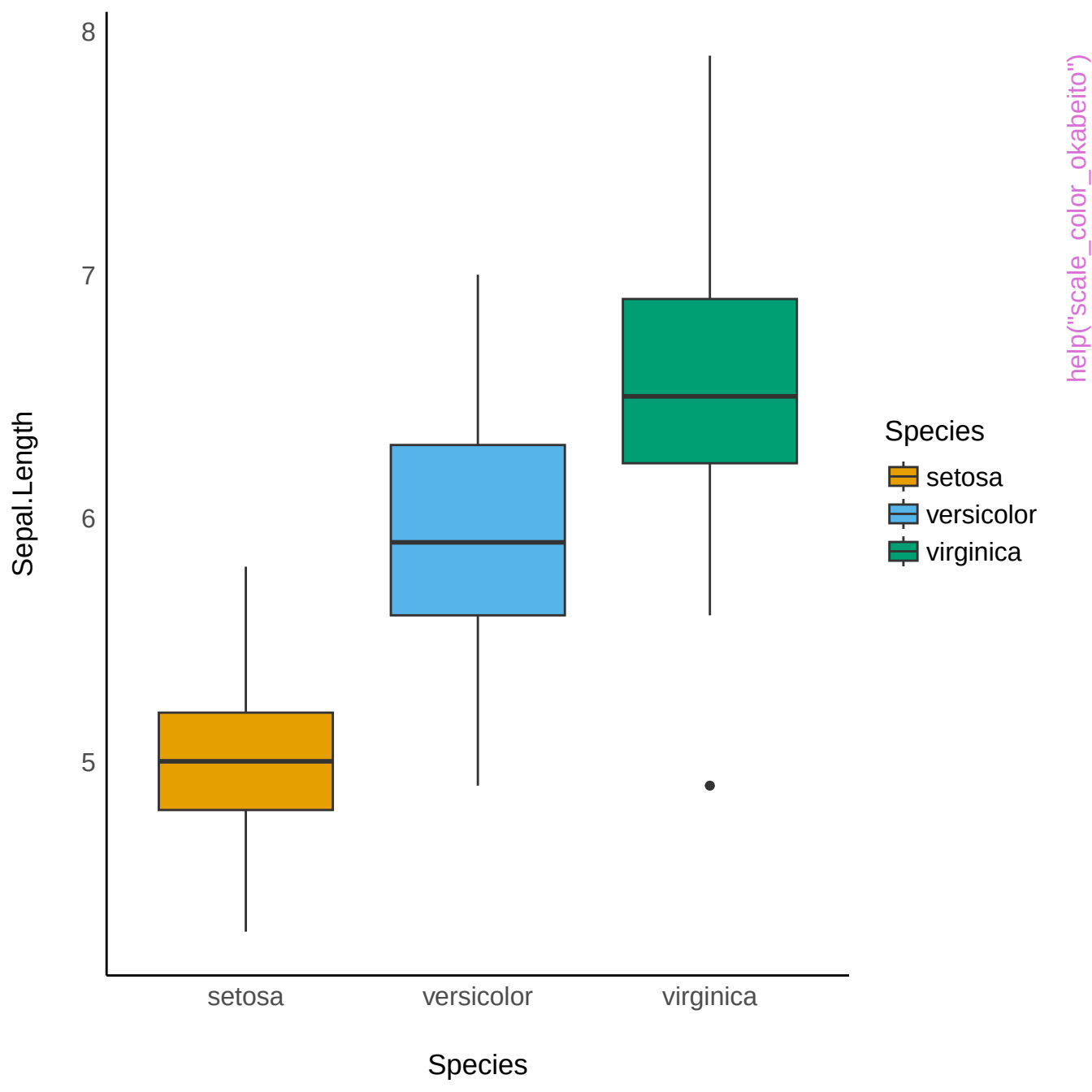

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_material")

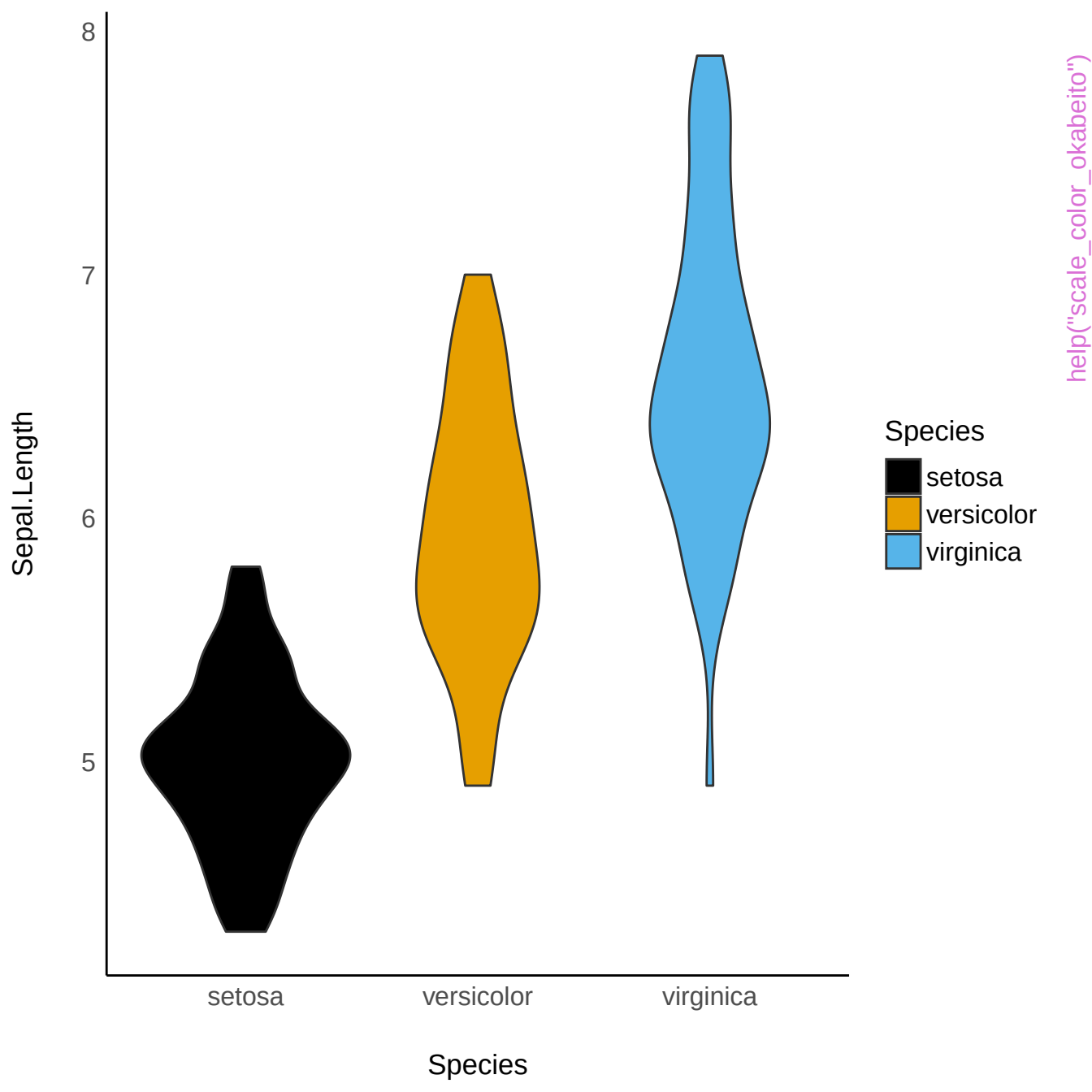

Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length
Sepal.Length
7
6
5
help("scale_color_material")

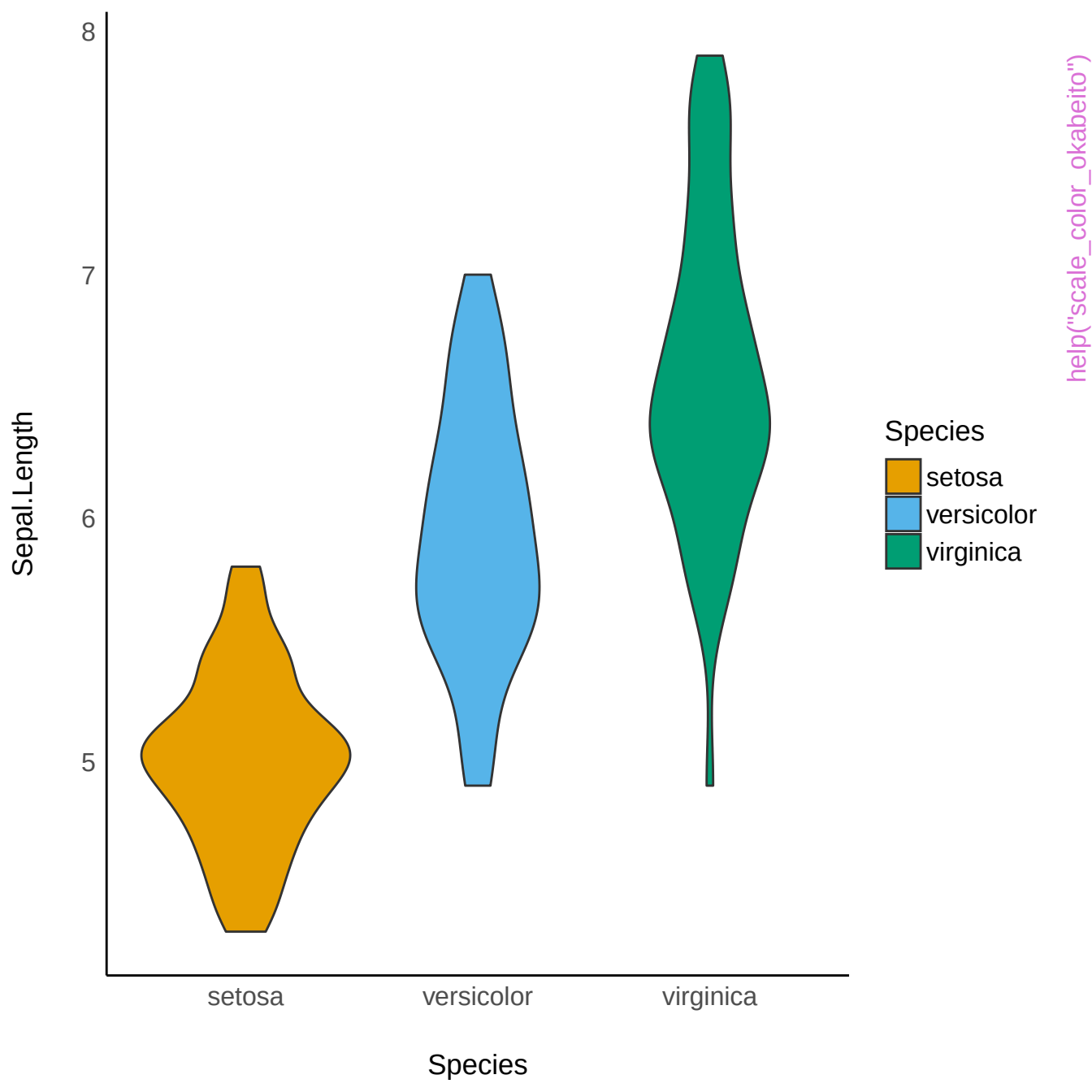

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_metro")

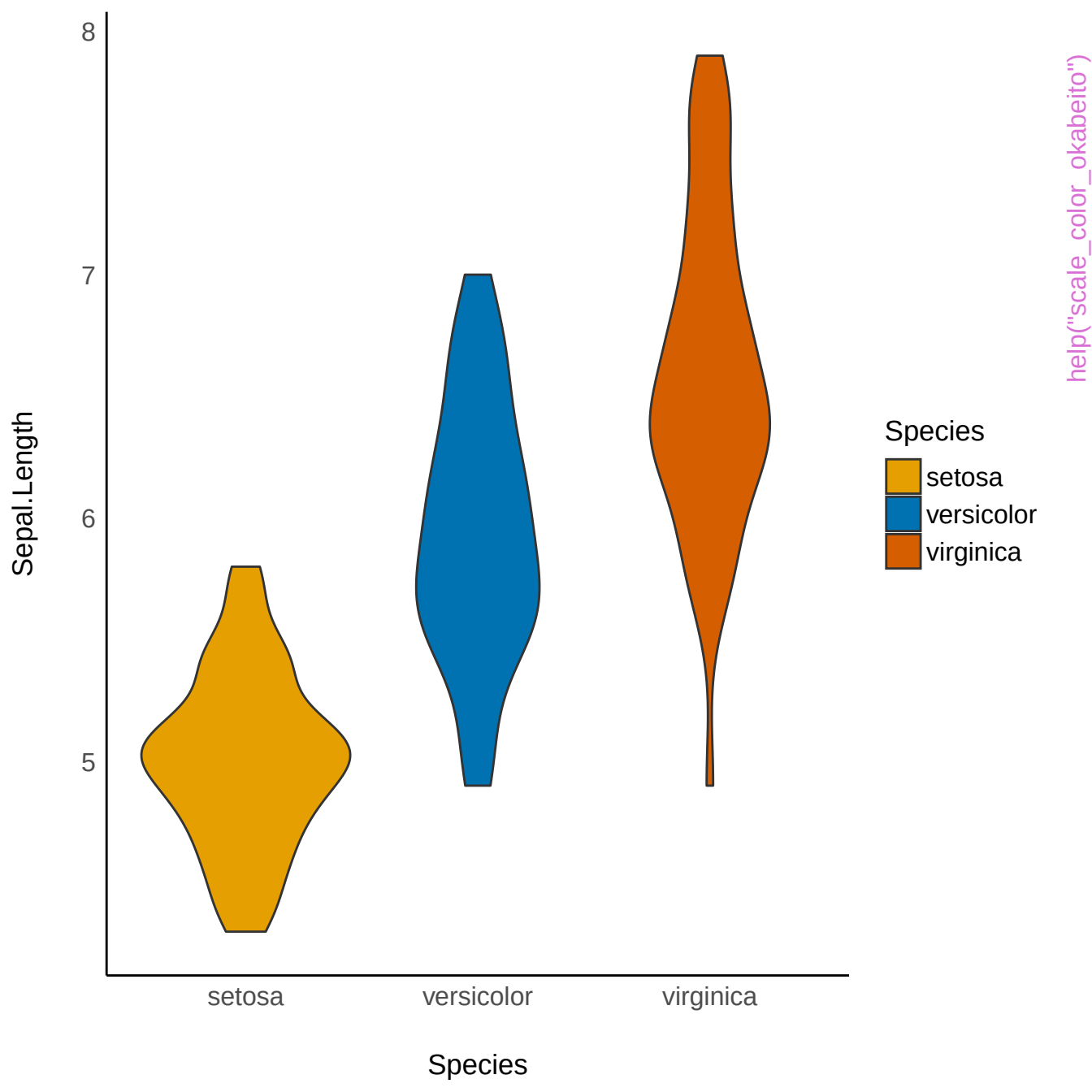

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_metro")

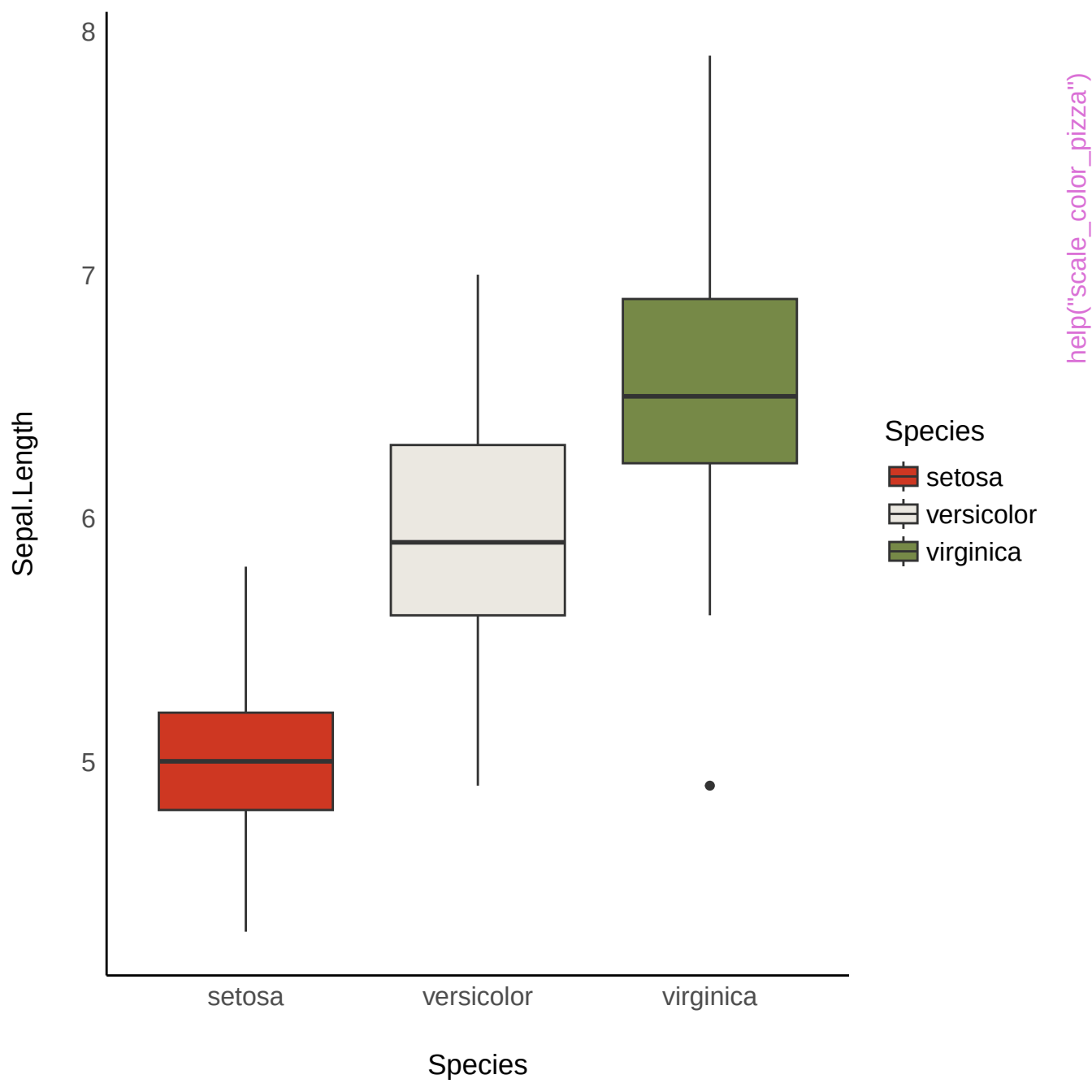

help("scale_color_metro")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

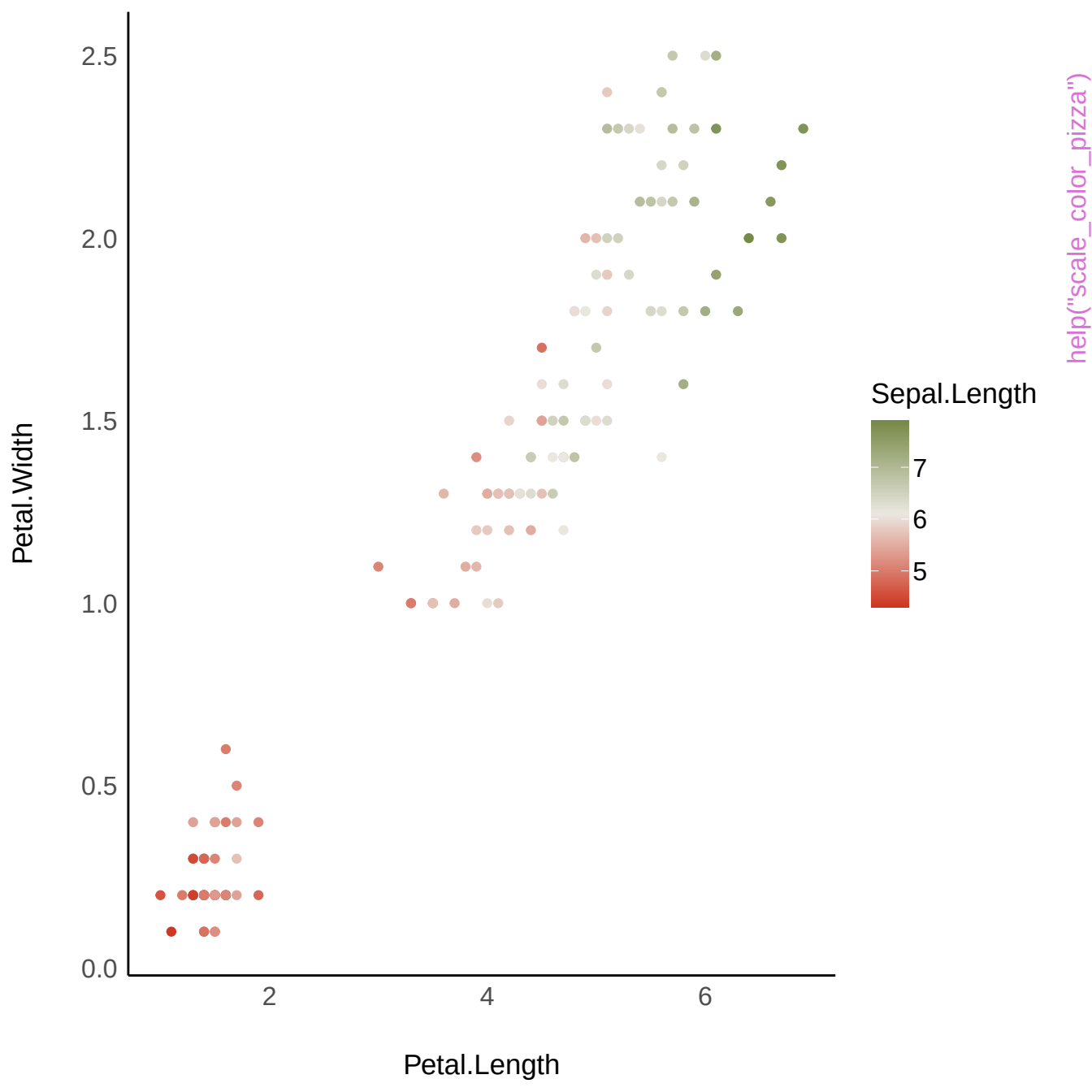

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_okabeito")

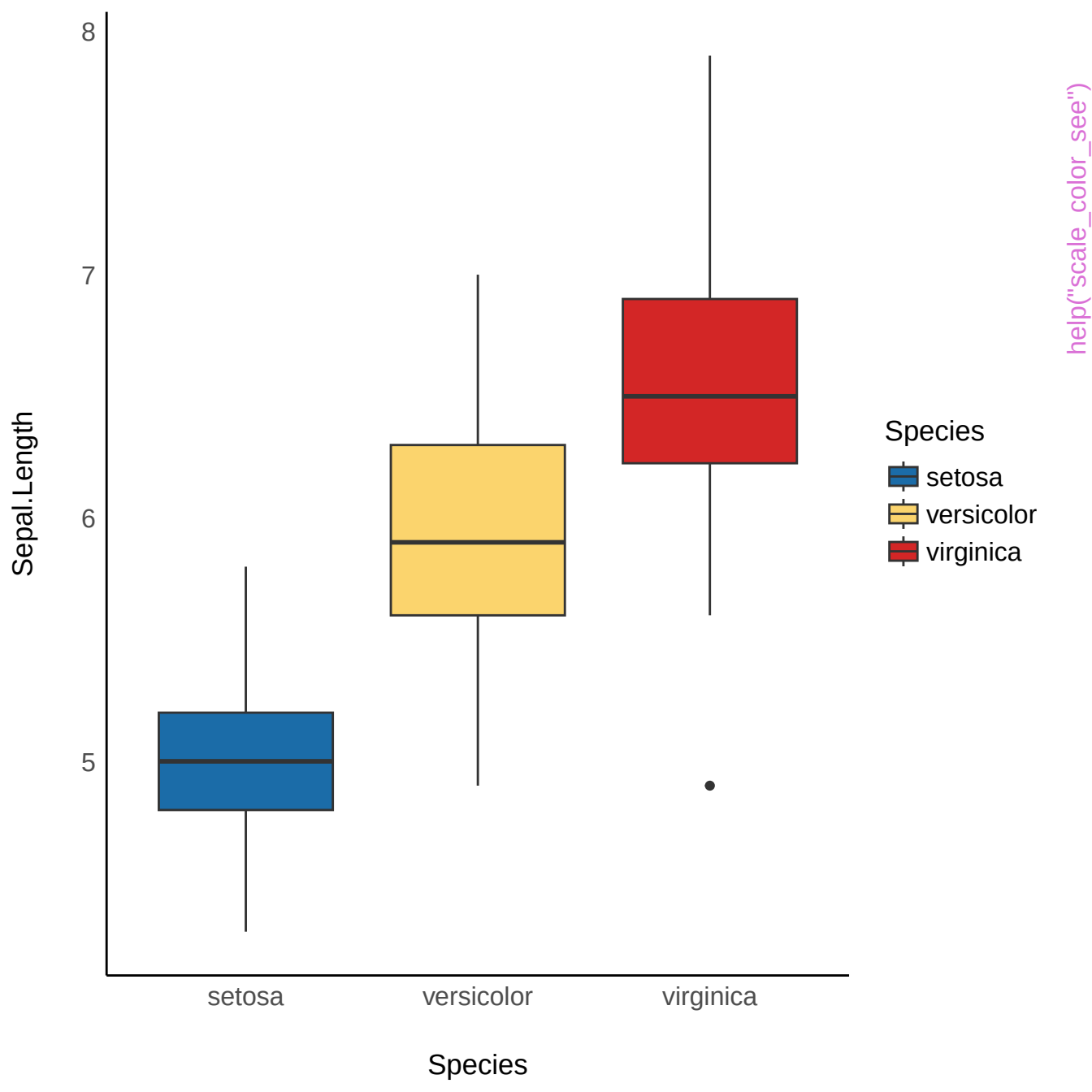

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_okabeito")

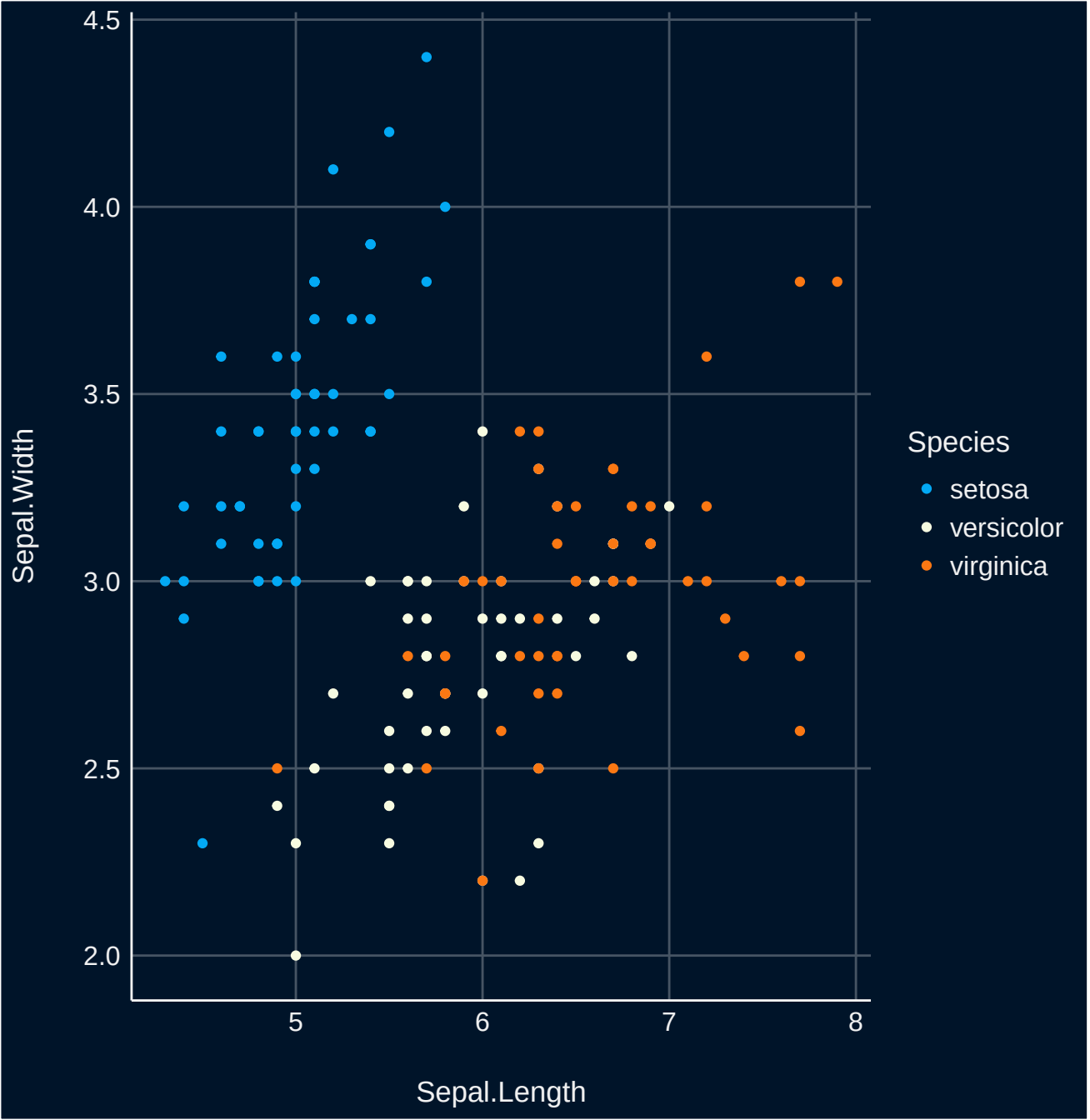

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_okabeito")

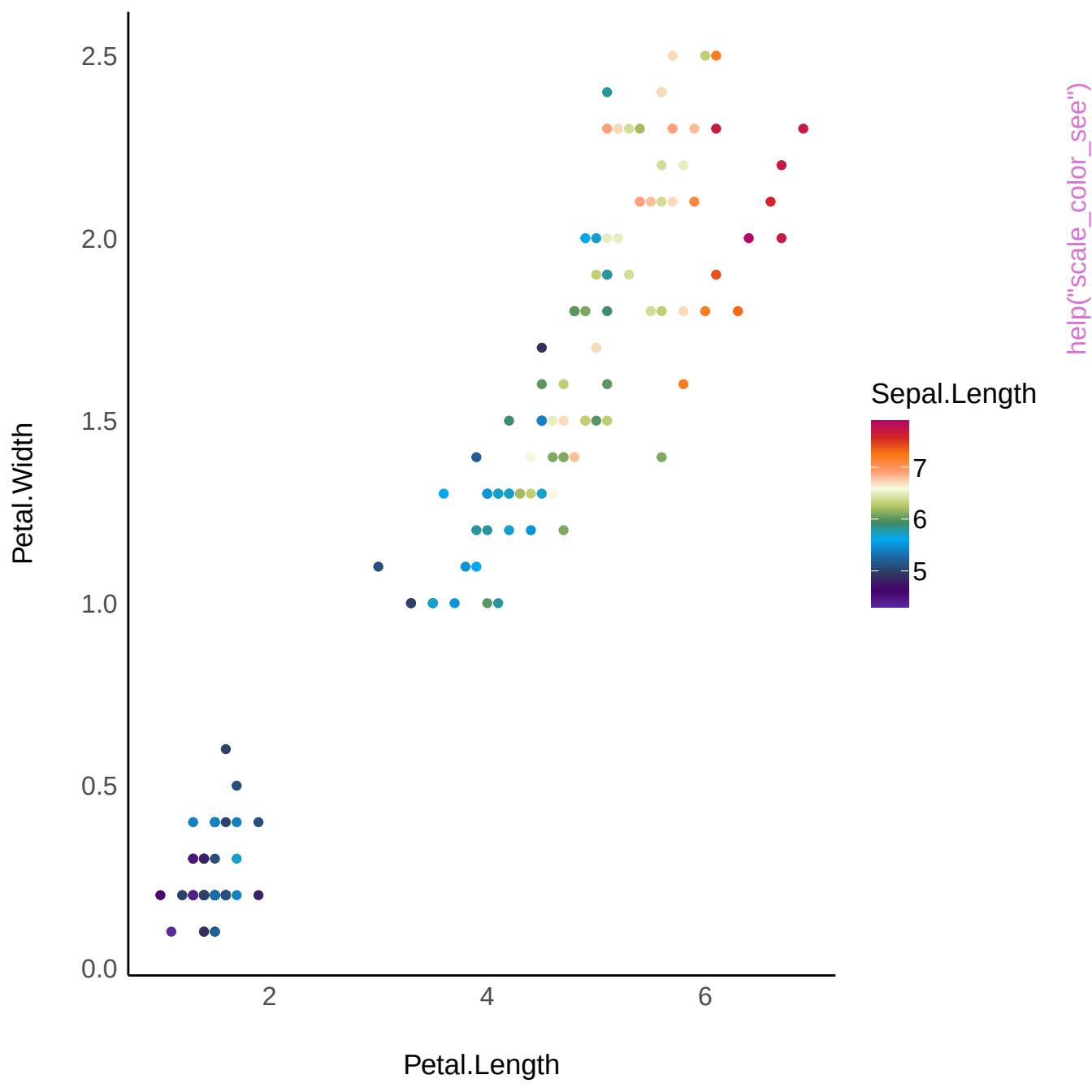

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_okabeito")

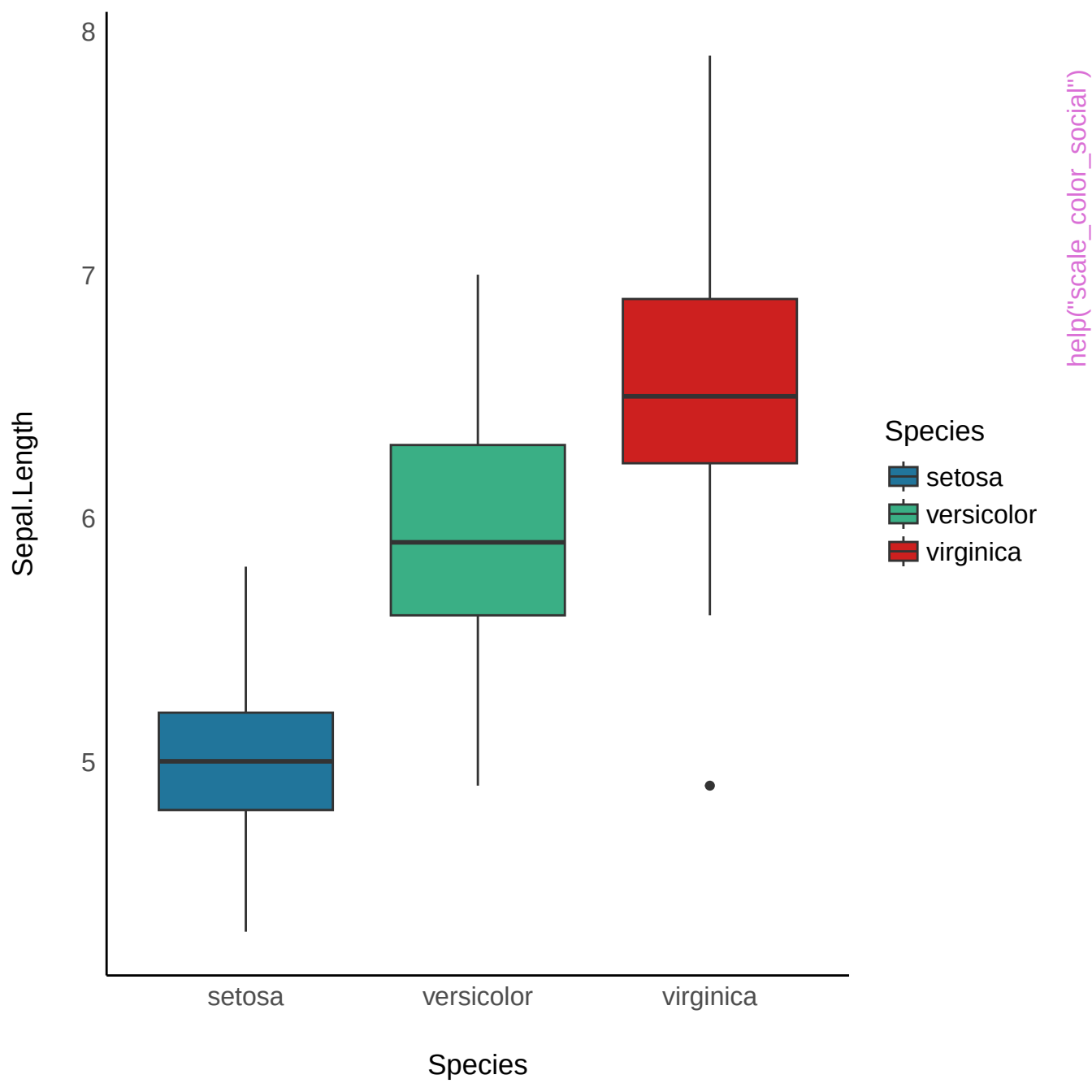

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_pizza")

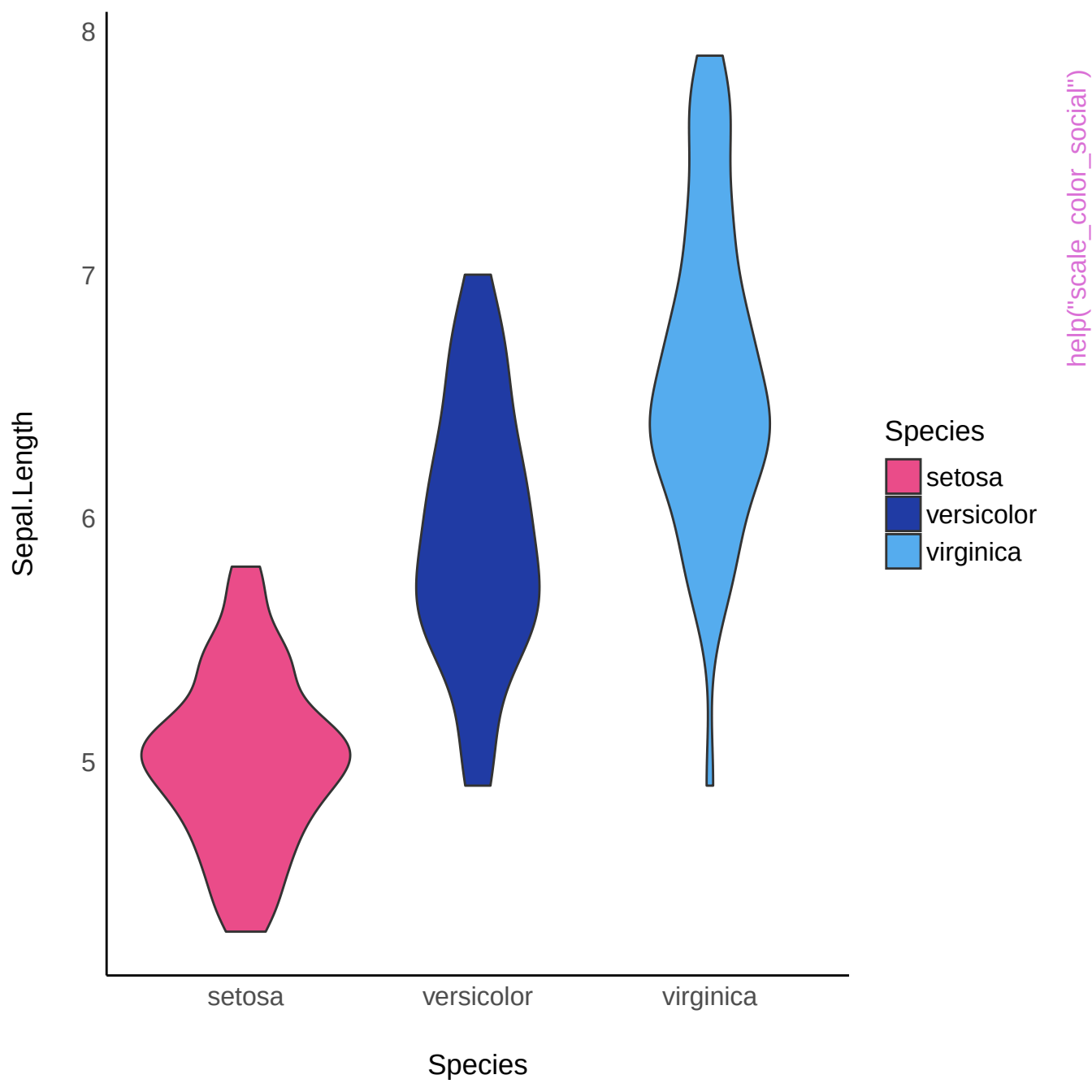

help("scale_color_pizza")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

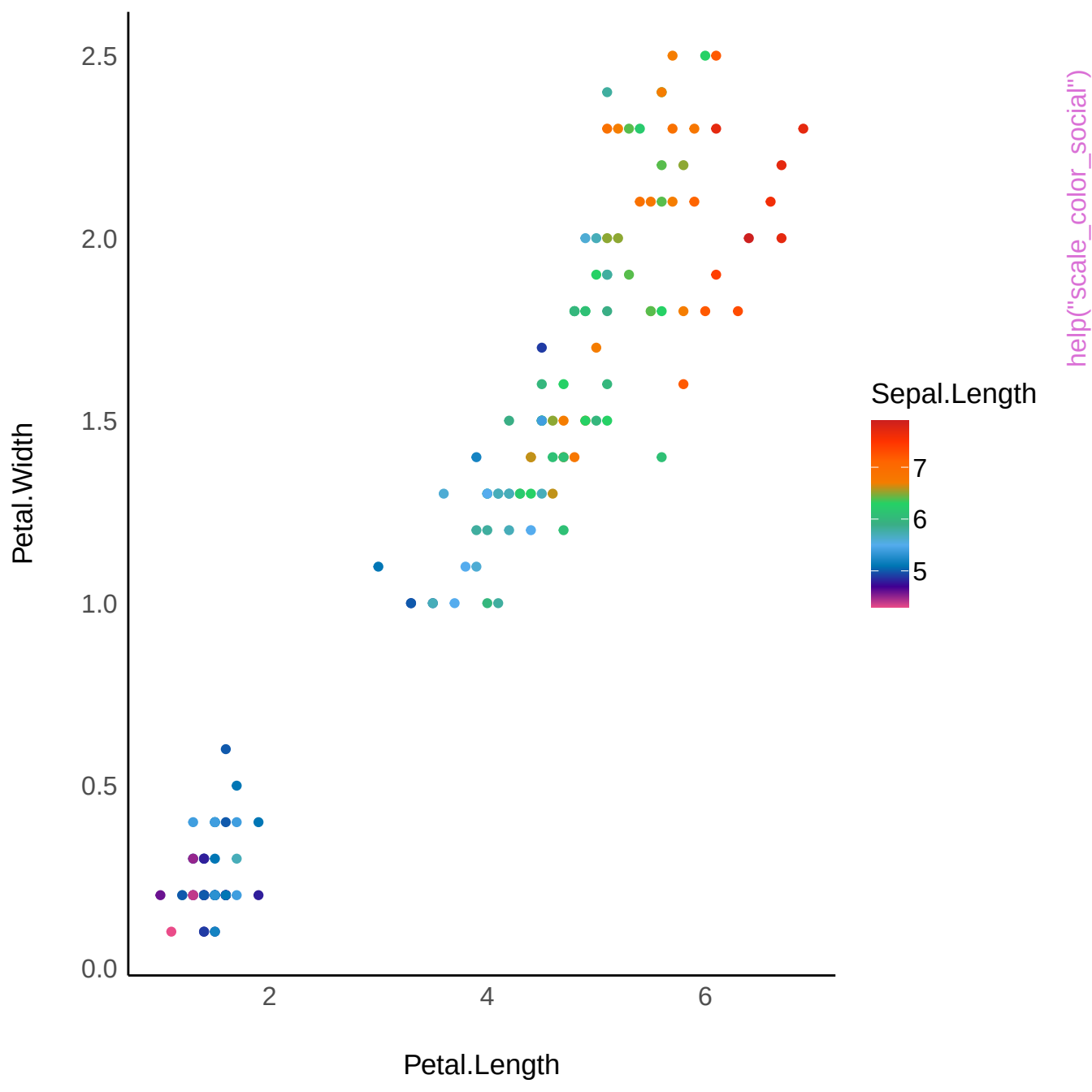

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_see")

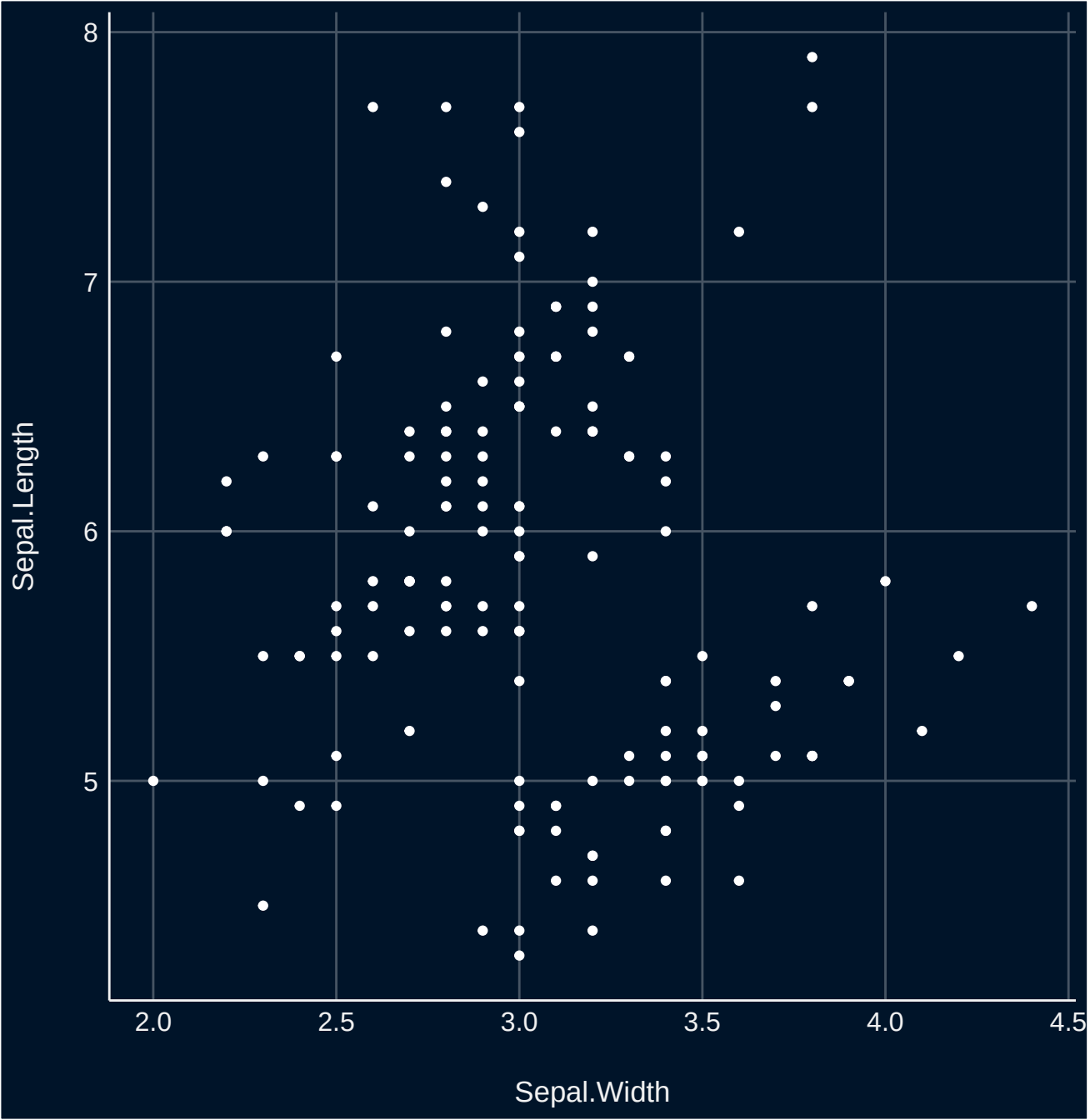

4.5
4.0
3.5
3.0
2.5
2.0
Sepal.Width
5
6
7
8
Sepal.Length
Species
setosa
versicolor
virginica
help("scale_color_see")

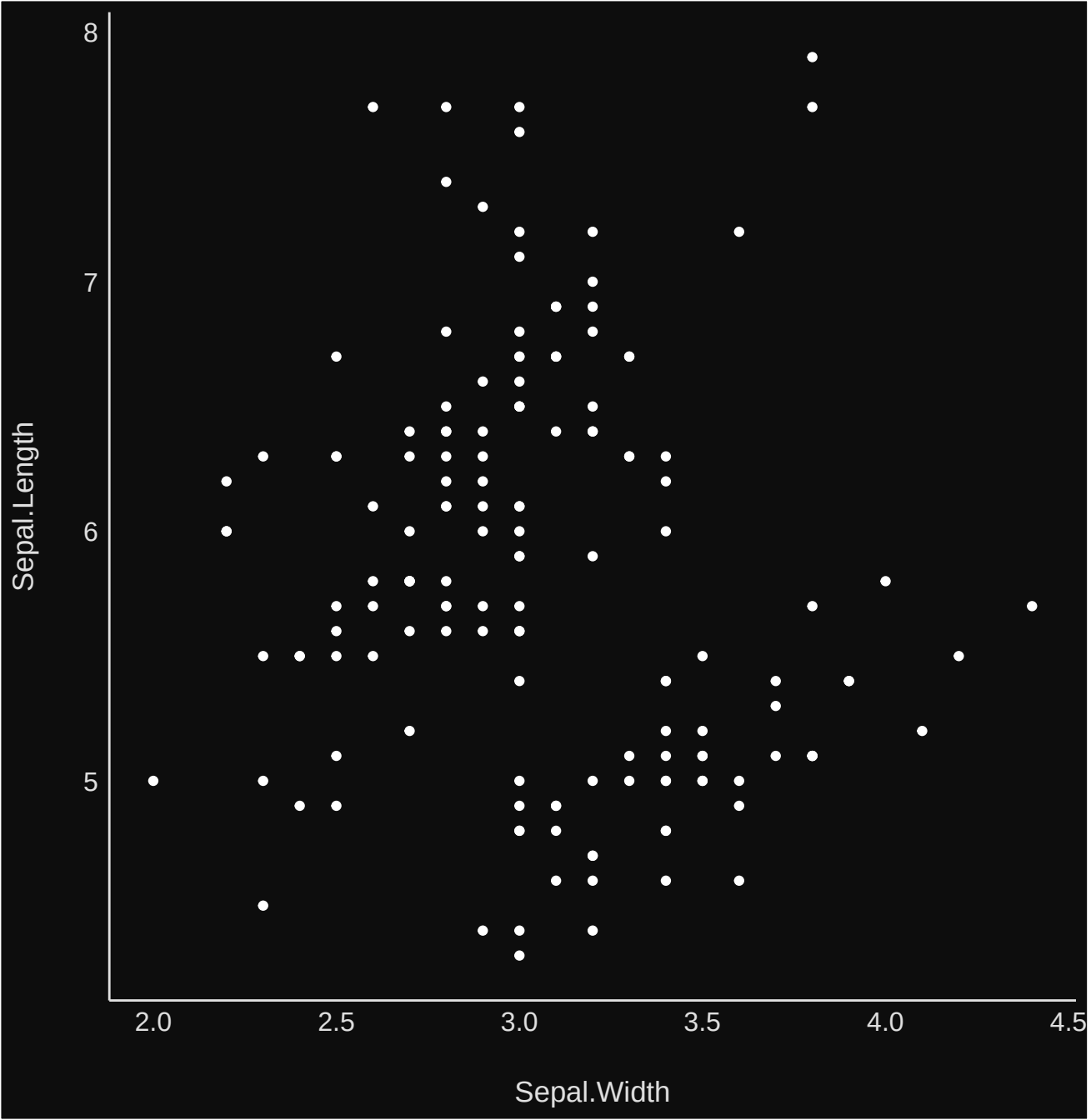

help("scale_color_see")
Sepal.Length
7
6
5
Petal.Width
2.5
2.0
1.5
1.0
0.5
0.0
2
4
6
Petal.Length

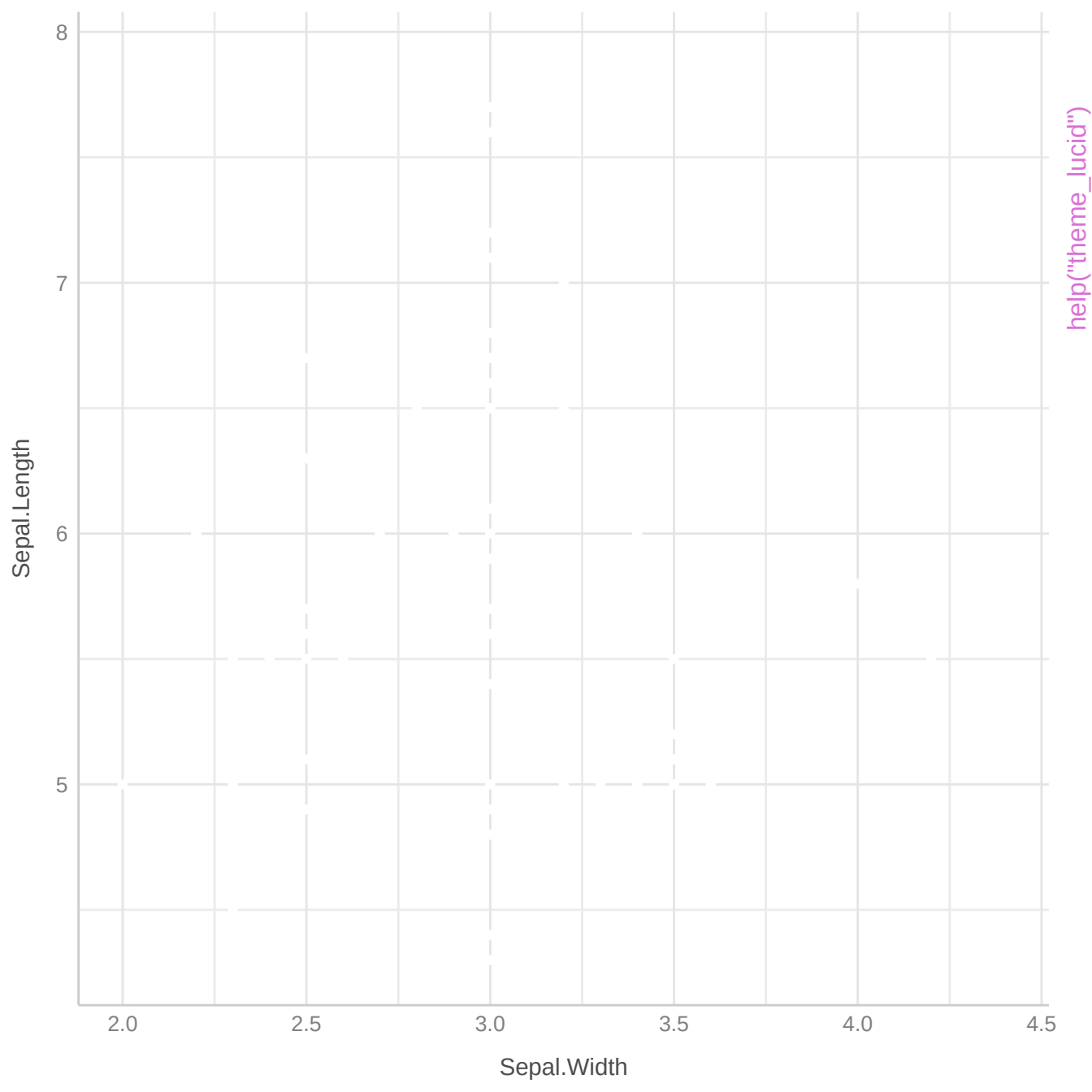

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_social")

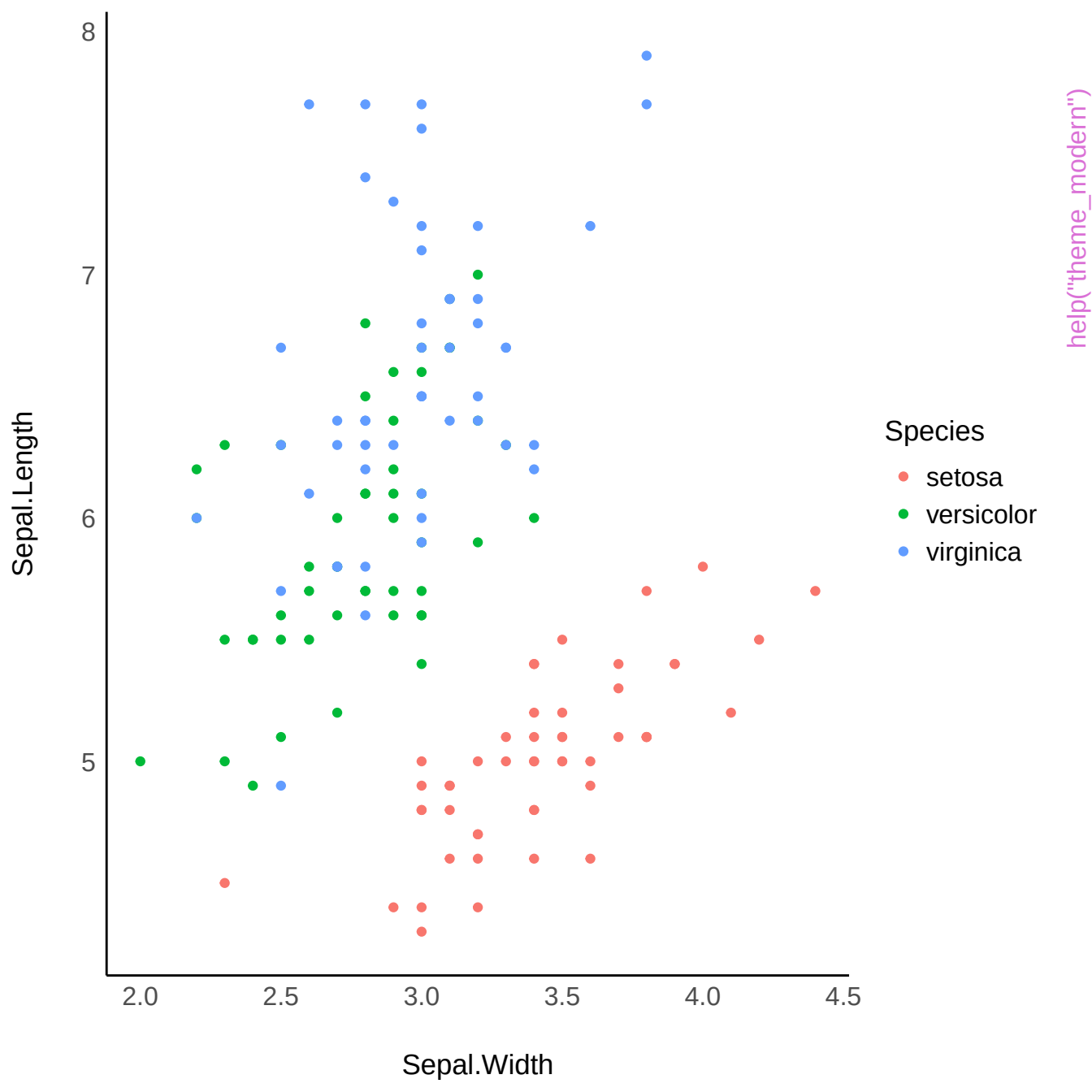

8
7
6
5
Sepal.Length
setosa
versicolor
virginica
Species
Species
setosa
versicolor
virginica
help("scale_color_social")

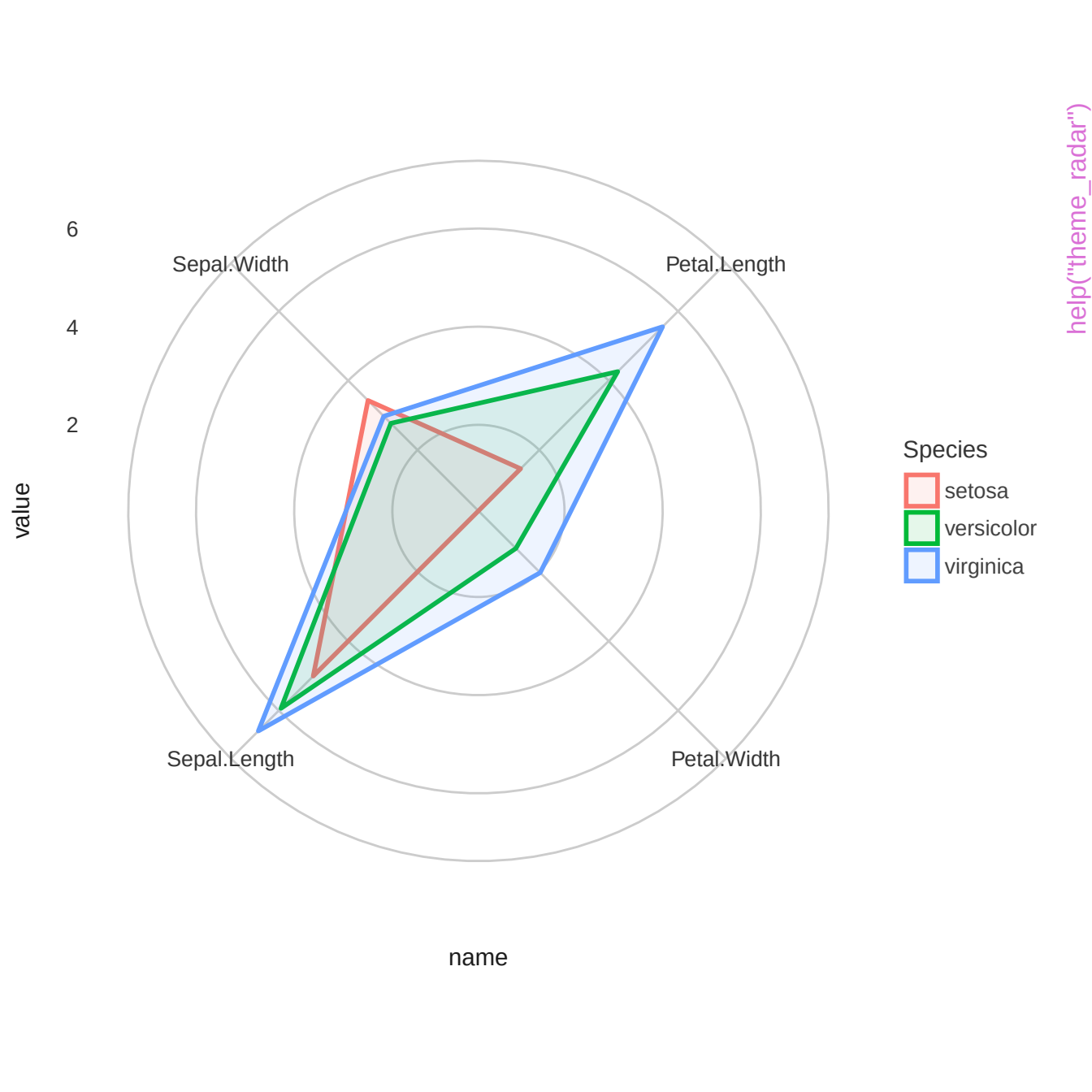

2.5
2.0
1.5
1.0
0.5
0.0
Petal.Width
2
4
6
Petal.Length
Sepal.Length
7
6
5
help("scale_color_social")


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")


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