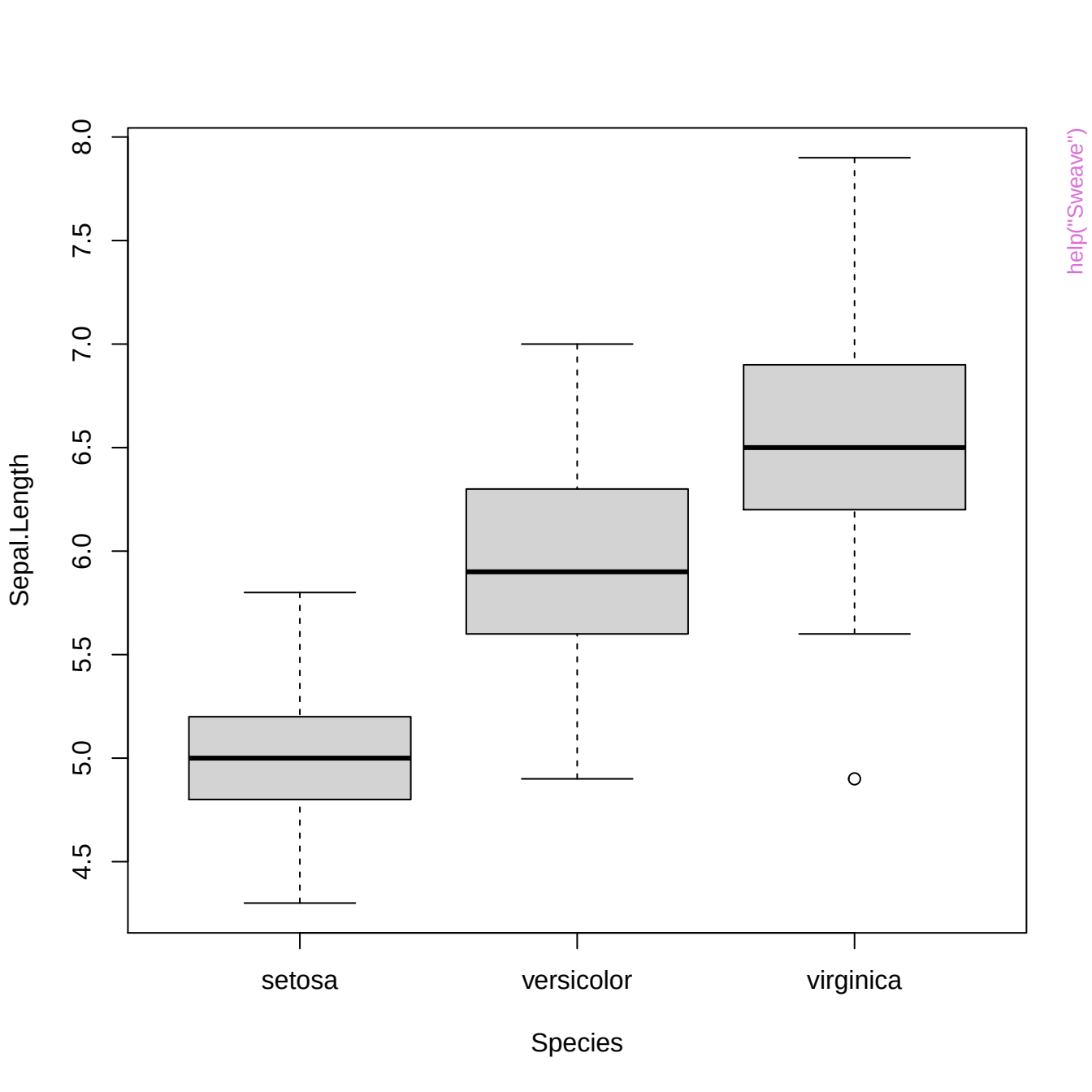
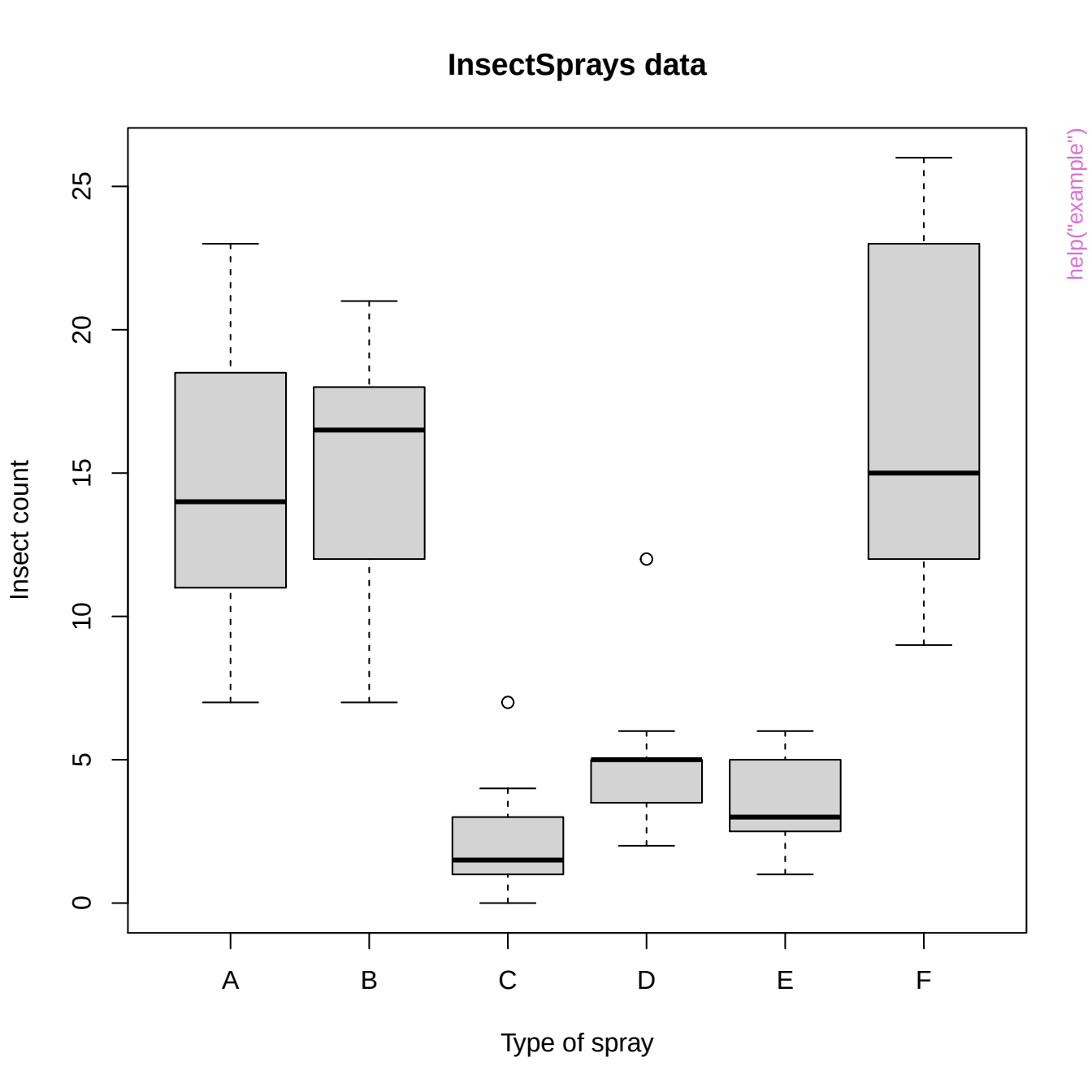
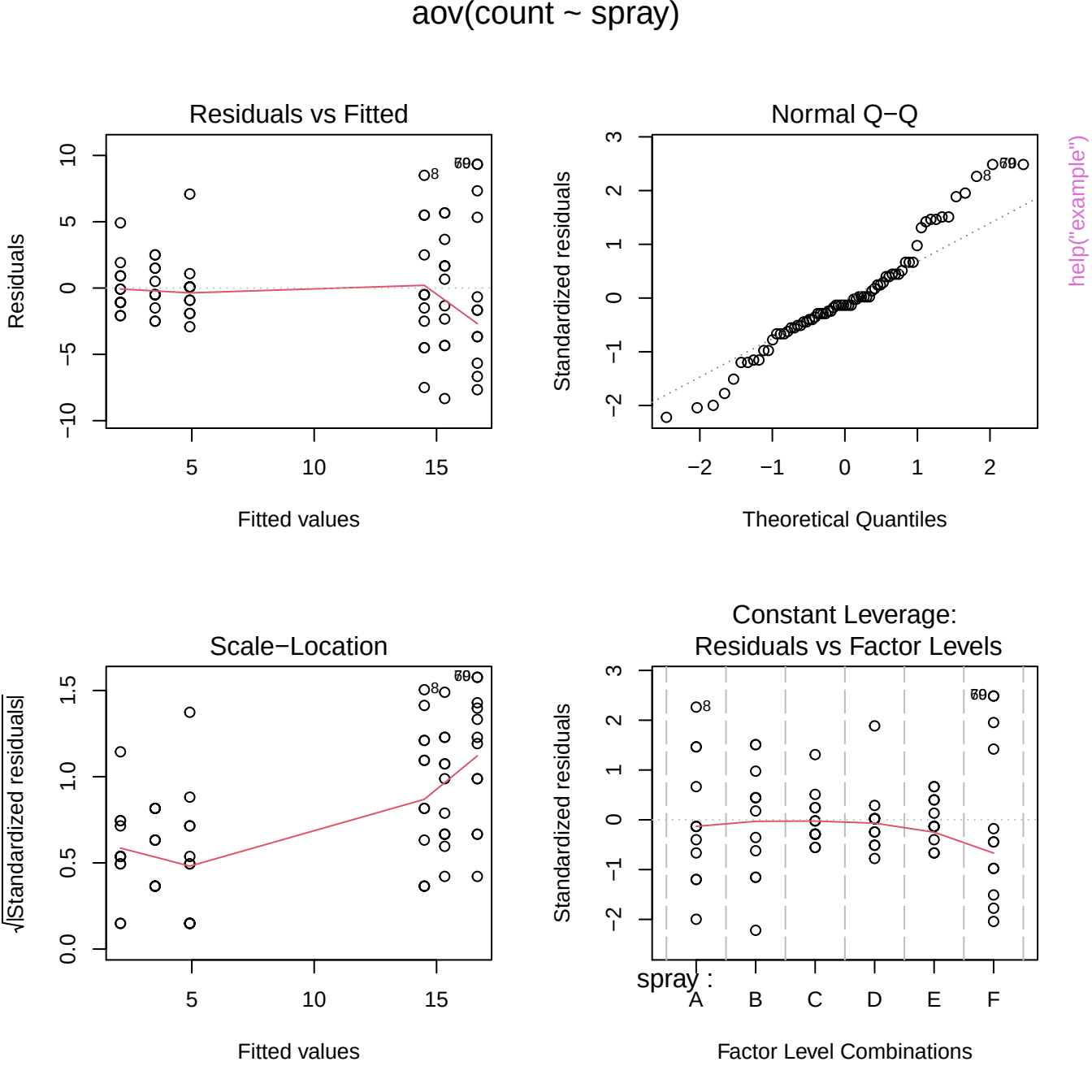
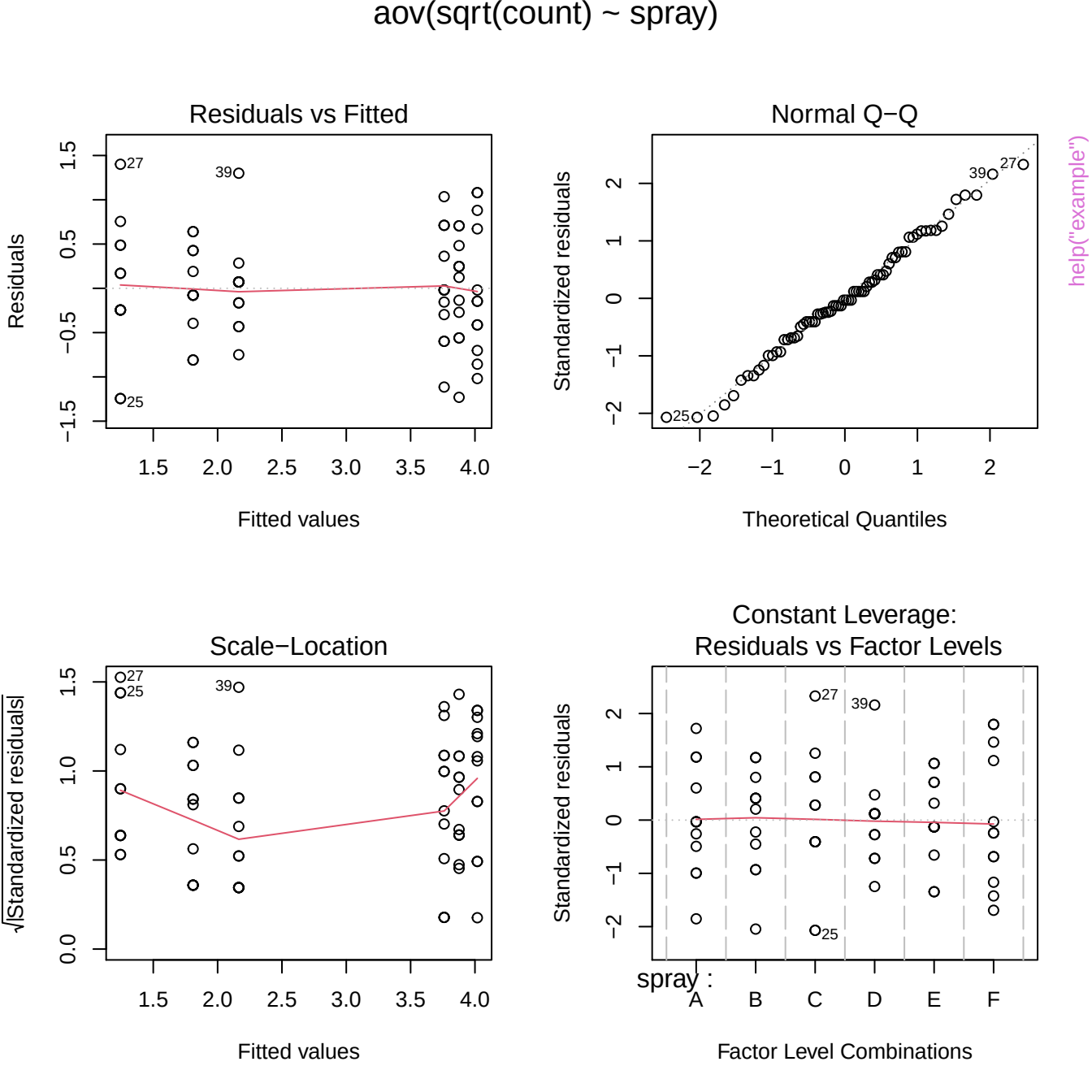
Sepal.Length
Sepal.Width
Petal.Length
Petal.Width
Species
help("Sweave")

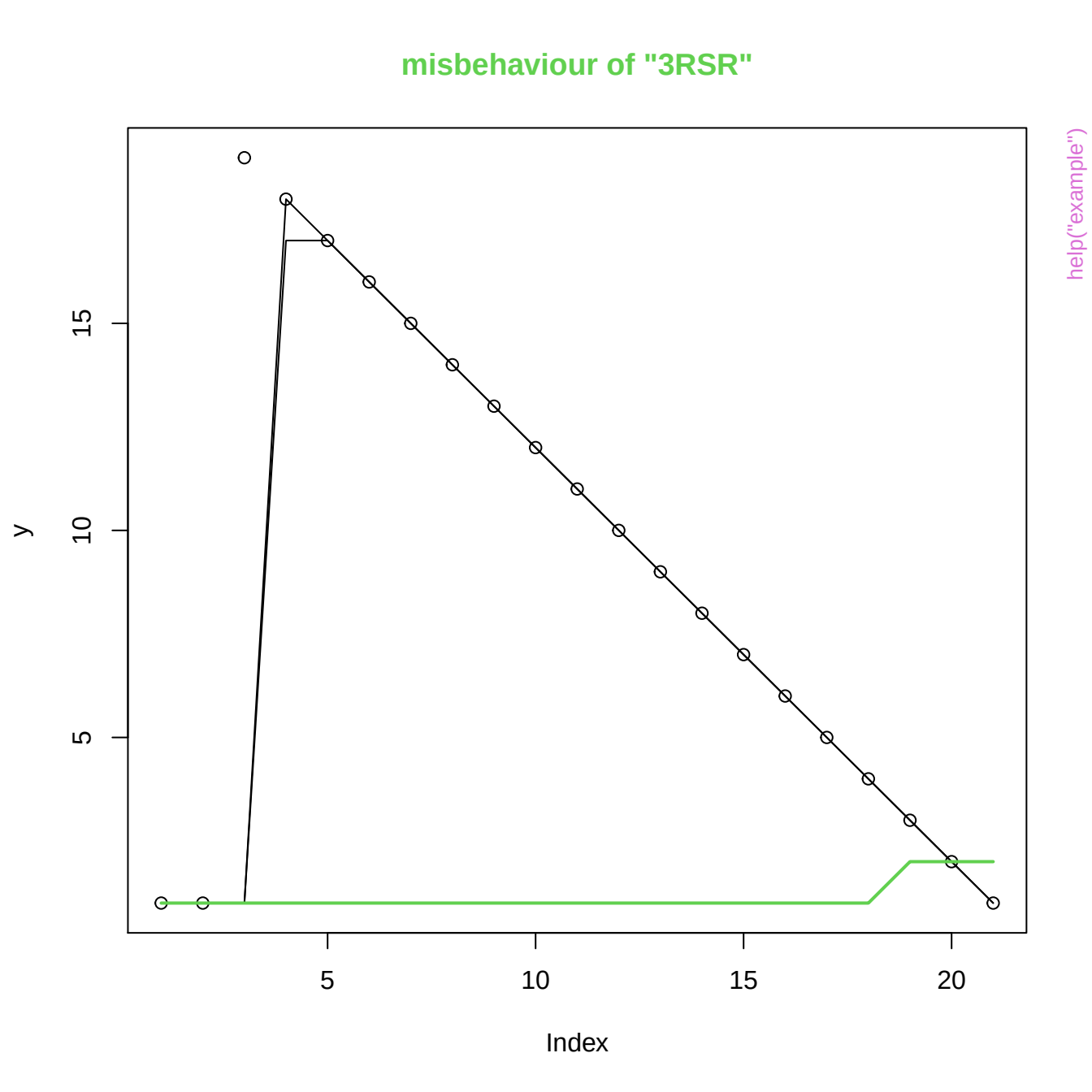

Sepal.Length
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
setosa
versicolor
virginica
Species

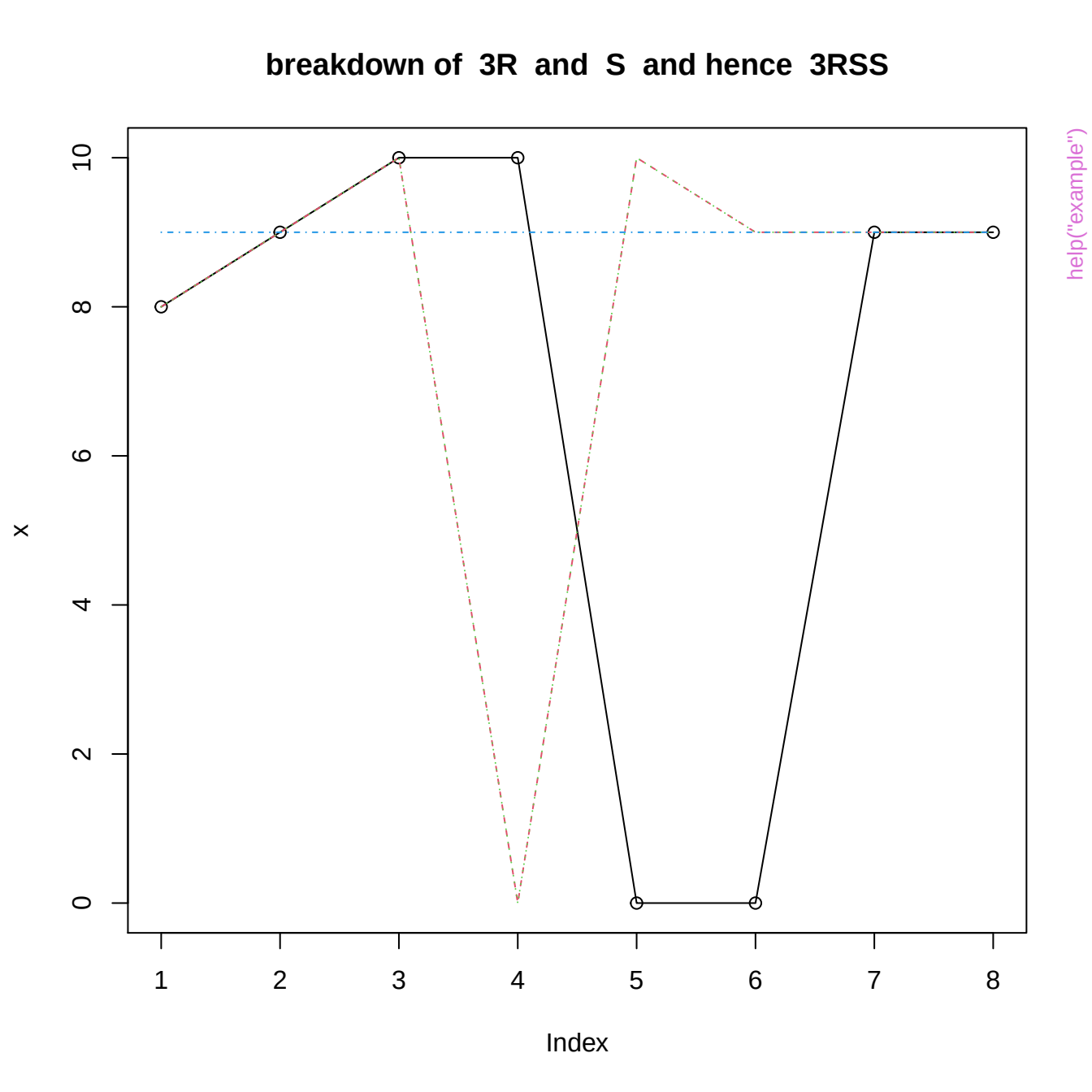
help("Sweave")

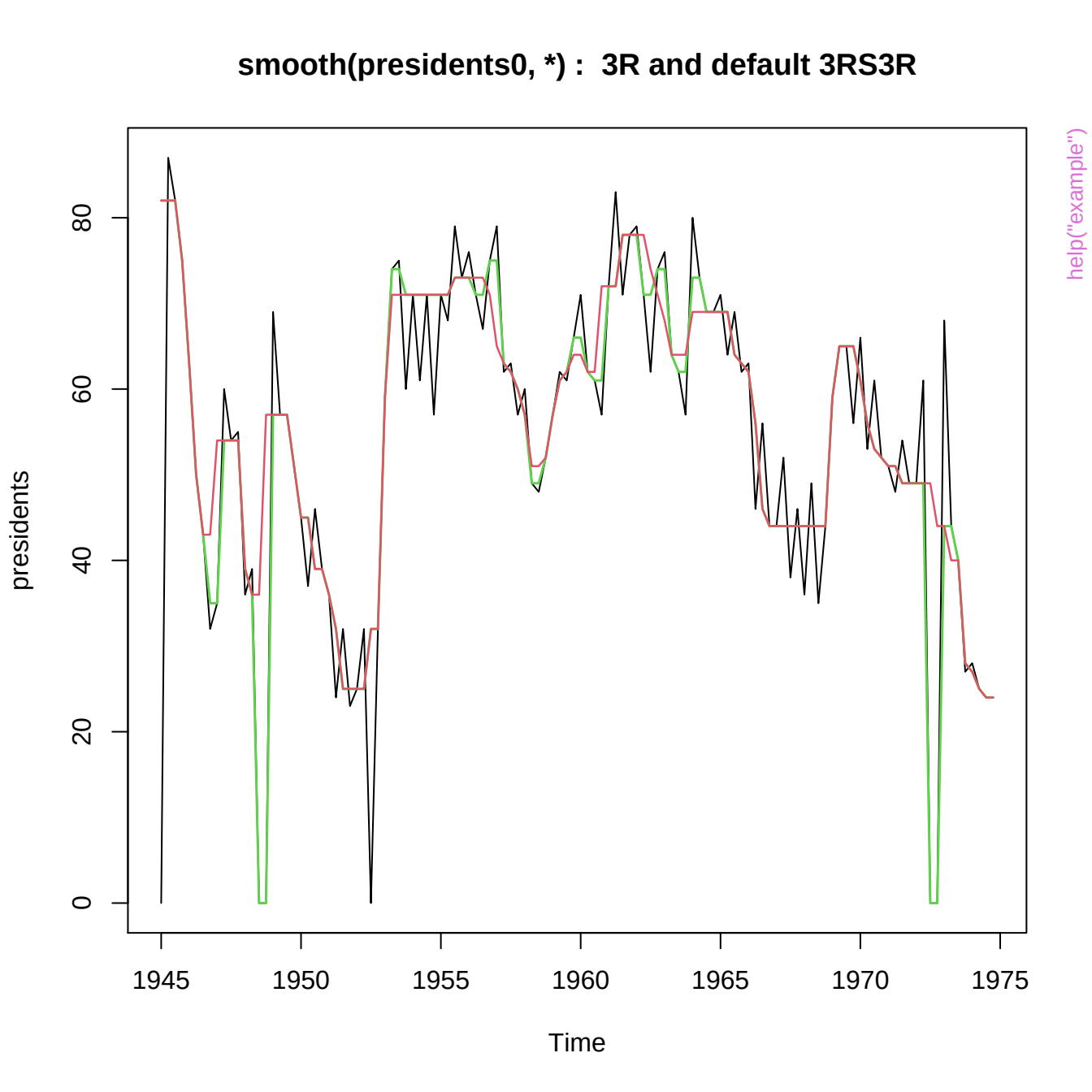

InsectSprays data
Insect count
0
5
10
15
20
25
A
B
C
D
E
F
Type of spray
help("example")


aov(count ~ spray)
Residuals vs Fitted
Residuals
Fitted values
Normal Q−Q
Standardized residuals
Theoretical Quantiles
help("example")
Scale−Location
√|Standardized residuals|
Fitted values
Constant Leverage:
Residuals vs Factor Levels
Standardized residuals
spray :
A
B
C
D
E
F
Factor Level Combinations


aov(sqrt(count) ~ spray)
Residuals vs Fitted
Residuals
Fitted values
27
39
25
Normal Q−Q
Standardized residuals
Theoretical Quantiles
help("example")
Scale−Location
√|Standardized residuals|
Constant Leverage:
Residuals vs Factor Levels
spray :
A
B
C
D
E
F
Factor Level Combinations


misbehaviour of "3RSR"
help("example")
y
5
10
15
5
10
15
20
Index


breakdown of 3R and S and hence 3RSS
x
Index
0
2
4
6
8
10
1
2
3
4
5
6
7
8
help("example")


smooth(presidents0, *) : 3R and default 3RS3R
presidents
0
20
40
60
80
1945
1950
1955
1960
1965
1970
1975
Time
help("example")