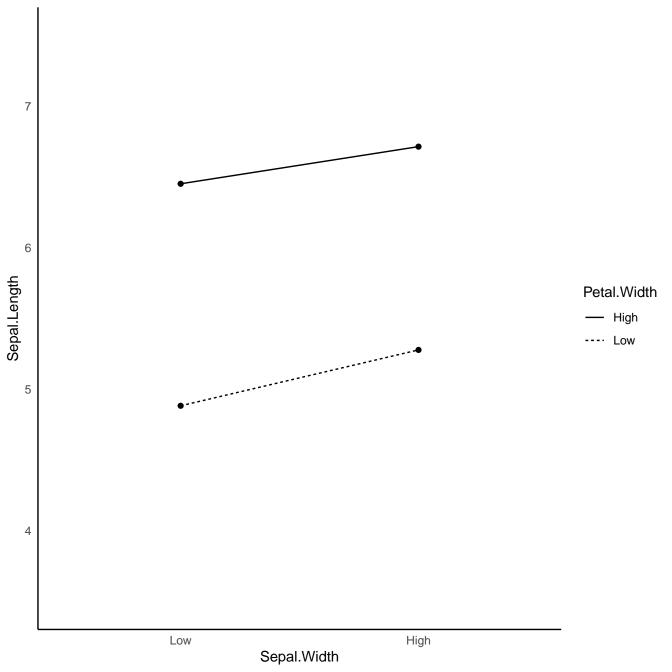
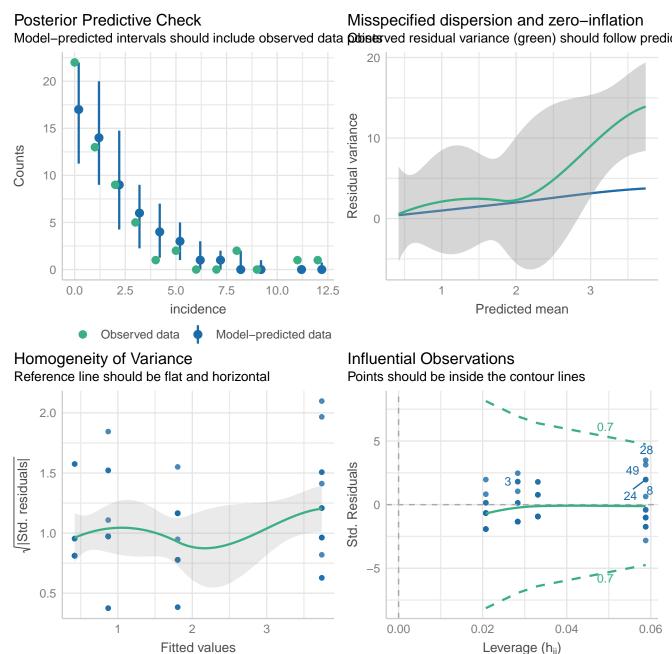
Posterior Predictive Check Linearity Model-predicted lines should resemble observed data line eference line should be flat and horizontal 0.5 1.0 0.4 Residuals 0.5 Density 0.3 0.0 0.2 -0.50.1 -1.00.0 6.5 5.0 5.5 6.0 7.0 4.5 Sepal.Length Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal Points should be inside the contour lines 20 /|Std. residuals| 1.5 Residuals 10 0.8 1.0 Std. | 0.8 -100.5 -205.5 6.0 6.5 7.0 0.00 0.05 0.10 4.5 5.0 Fitted values Leverage (hii) Collinearity Normality of Residuals High collinearity (VIF) may inflate parameter uncertainty bots should fall along the line of the line Sepal.Width:Petal.Width 3

Low (< 5)

High (>= 10)

Standard Normal Distribution Quantiles





Posterior Predictive Check Linearity Model-predicted lines should resemble observed data line ference line should be flat and horizontal 0.3 2 Residuals Density 0.2 0 0.1 0.0 2.5 5.0 7.5 10.0 0.0 8 popular Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.0 2 4 6 Points should be inside the contour lines Std. Residual 10 0.9 5 627 888 0 -5 -10

8

0.0

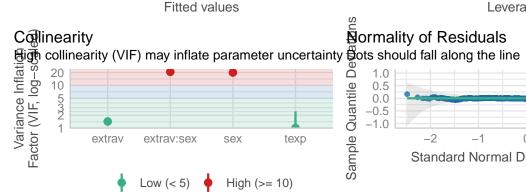
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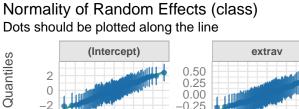
0.2

Leverage (h_{ii})

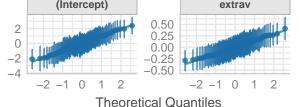
0 Standard Normal Distribution Quantiles

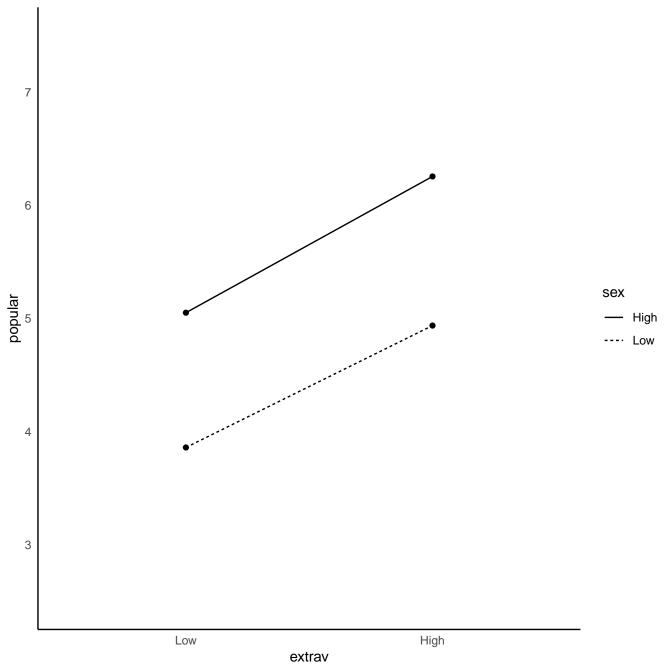
0.3

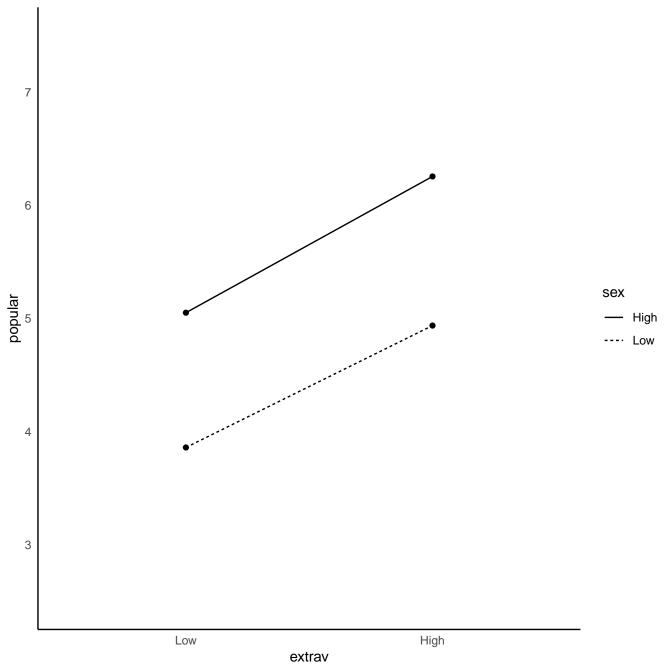




RE (





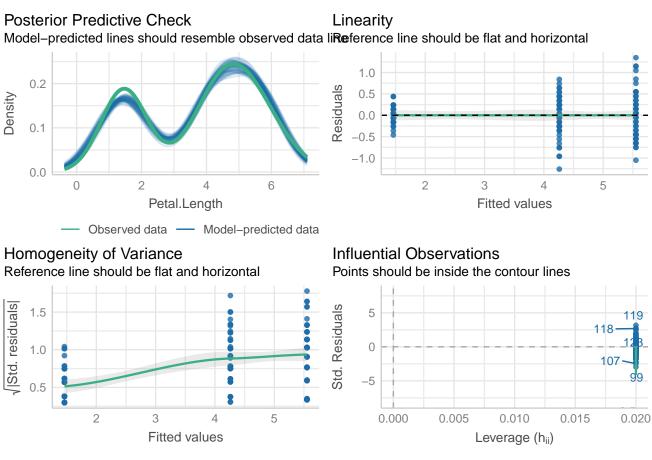


Posterior Predictive Check Linearity Model-predicted lines should resemble observed data line eference line should be flat and horizontal 1.0 0.4 Residuals 0.5 Density 0.0 0.2 -0.5-1.00.0 6.5 5.0 5.5 6.0 7.0 4.5 Sepal.Length Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal Points should be inside the contour lines 20 VStd. residuals 1.5 Residuals 10 0.8 1.0 Std. | 0.8 -100.5 -205.5 6.0 6.5 7.0 0.00 0.05 0.10 4.5 5.0 Fitted values Leverage (hii) Collinearity Normality of Residuals High collinearity (VIF) may inflate parameter uncertainty bots should fall along the line of the line Sepal.Width:Petal.Width

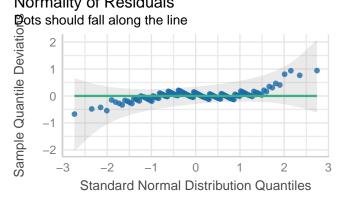
3

Standard Normal Distribution Quantiles

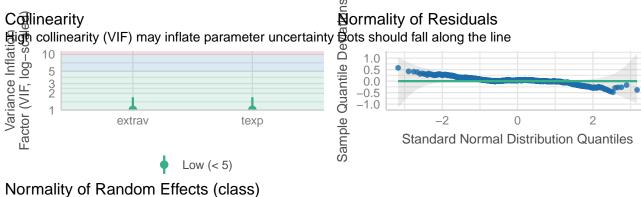
Low (< 5) High (>= 10)



Normality of Residuals



Posterior Predictive Check Linearity Model-predicted lines should resemble observed data lineeference line should be flat and horizontal 0.3 Residuals Density 0.2 0.1 0.0 8 popular Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.0 2 4 6 Points should be inside the contour lines Std. Residual 5 0 -5 0.8 8 0.0 0.2 0.3 0.1 Fitted values Leverage (hii)



extrav

0

0.75 0.50

0.25

0.00

Theoretical Quantiles

Dots should be plotted along the line
(Intercept)

0

Quantiles

RE (4

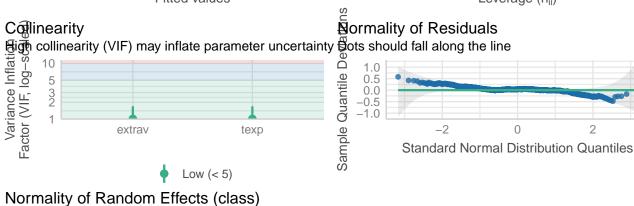
2

0

-2

-4

Posterior Predictive Check Linearity Model-predicted lines should resemble observed data lineeference line should be flat and horizontal Residuals 0.3 Density 0.2 0.1 0.0 () 8 popular Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.0 2 4 6 Points should be inside the contour lines Std. Residual 5 0 -5 0.8 8 0.0 0.2 0.3 0.1 Fitted values Leverage (hii)



extrav

0

0.75 0.50

0.25

0.00

Theoretical Quantiles

Dots should be plotted along the line
(Intercept)

0

Quantiles

RE (4

2

0

-2

-4