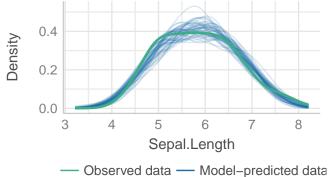
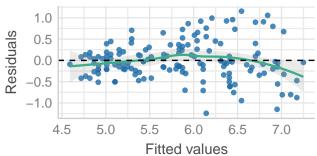
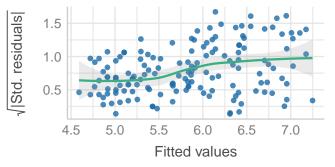
Posterior Predictive Check Linearity Model-predicted lines should resemble observed data li Reference line should be flat and horizontal 1.0 0.4 0.5 0.0





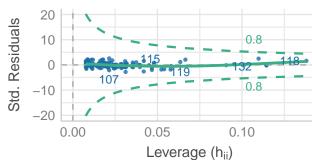
Homogeneity of Variance

Reference line should be flat and horizontal

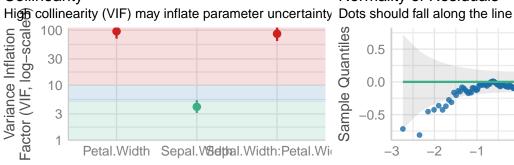


Influential Observations

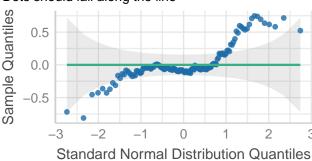
Points should be inside the contour lines



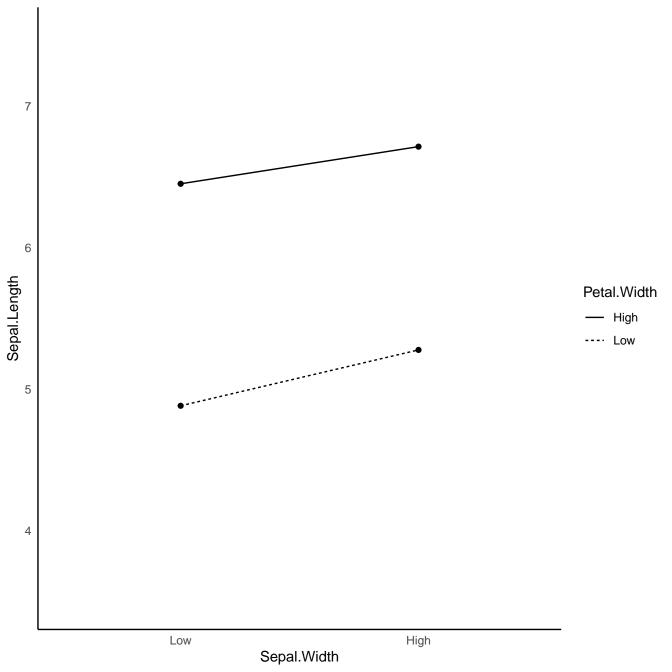
Collinearity

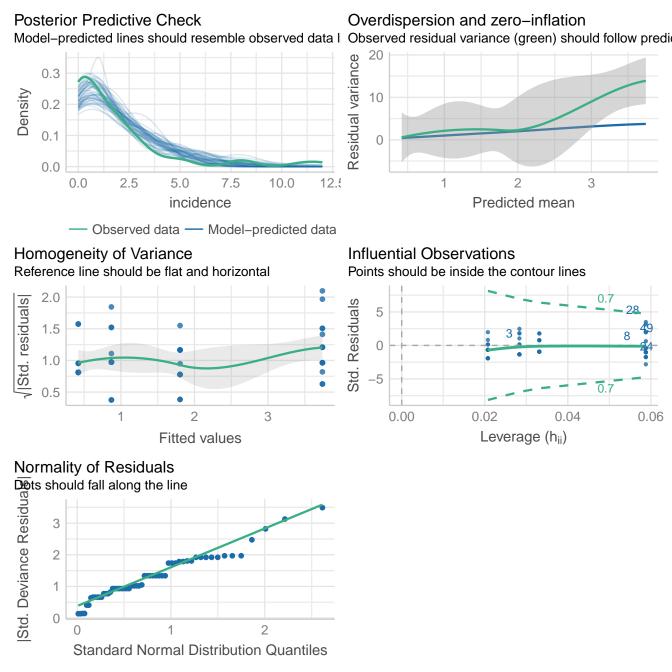


Normality of Residuals



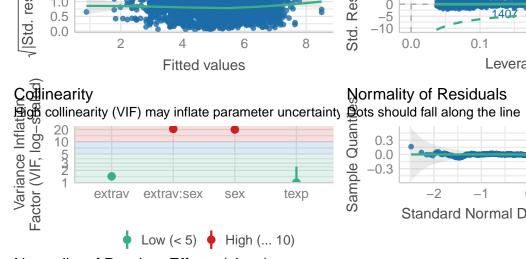
Low (< 5) High (... 10)



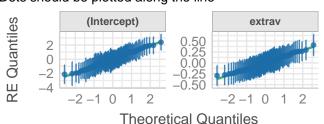


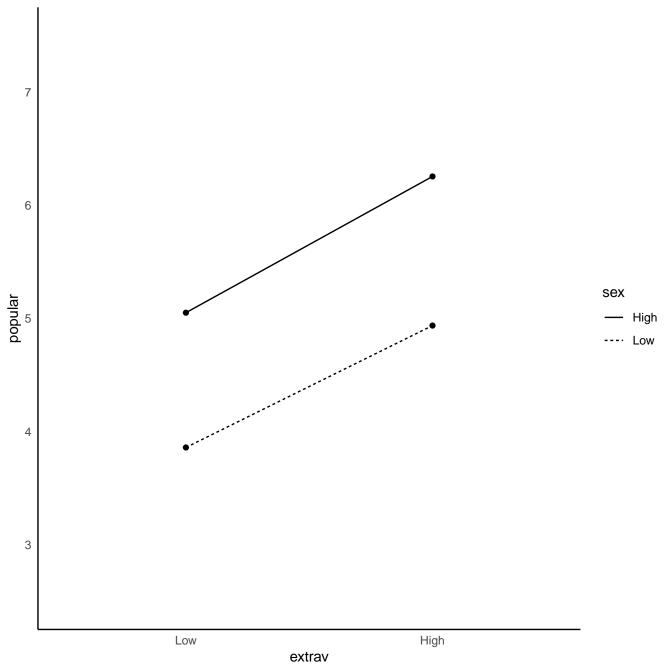
Posterior Predictive Check Linearity Model-predicted lines should resemble observed data I Reference line should be flat and horizontal 0.3 Residuals Density 0.2 0.1 0.0 2 popular Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.5 0.0 2 4 6 Points should be inside the contour lines 10 1345 527 86827 86829 0 0 0.0 0.1 0.2 0.9 0.3 Leverage (h_{ii})

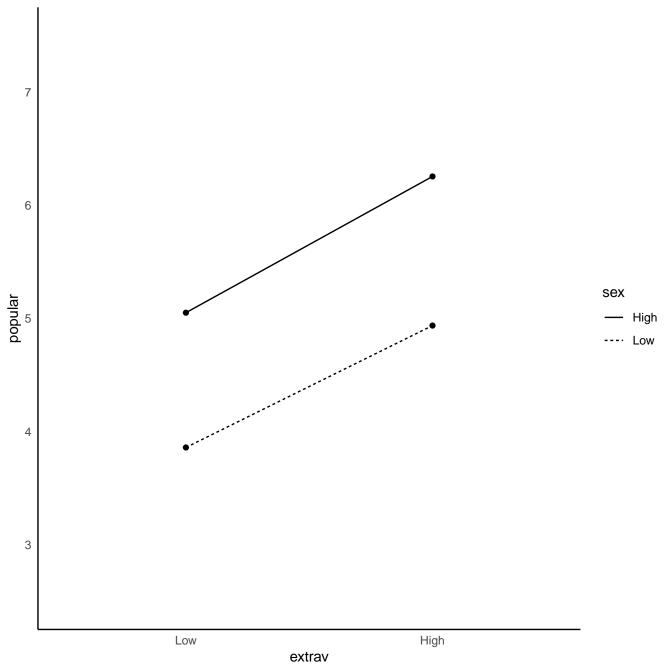
Standard Normal Distribution Quantiles



Normality of Random Effects (class) Dots should be plotted along the line

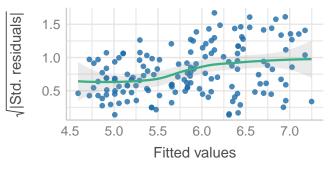




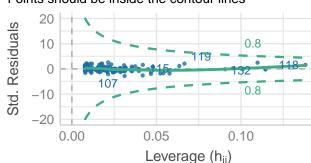


Posterior Predictive Check Linearity Model-predicted lines should resemble observed data li Reference line should be flat and horizontal 1.0 0.4 Residuals 0.5 Density 0.3 0.0 0.2 -0.50.1 -1.00.0 4.5 5.0 5.5 6.0 6.5 7.0 Sepal.Length Fitted values Observed data - Model-predicted data

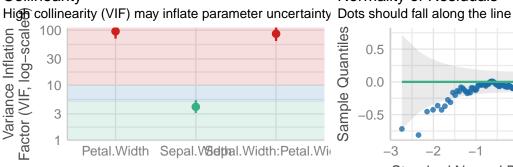
Homogeneity of Variance Reference line should be flat and horizontal



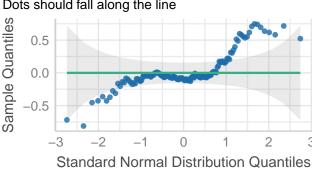
Influential Observations Points should be inside the contour lines



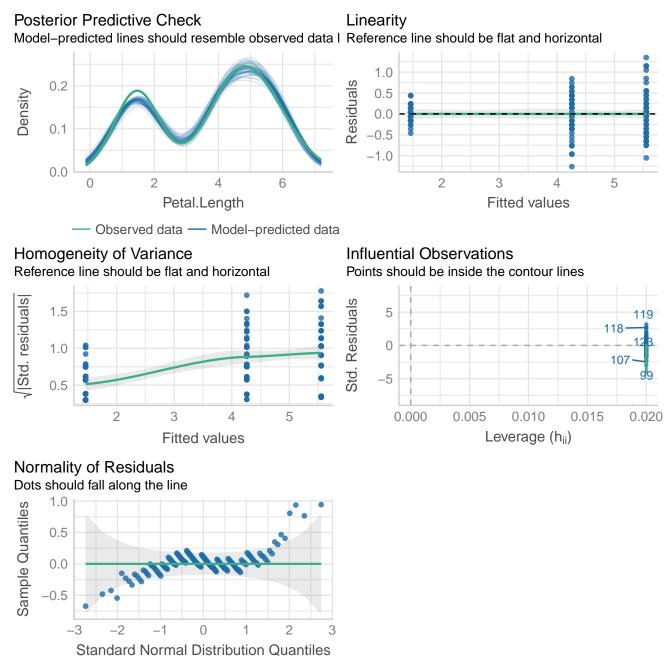
Collinearity



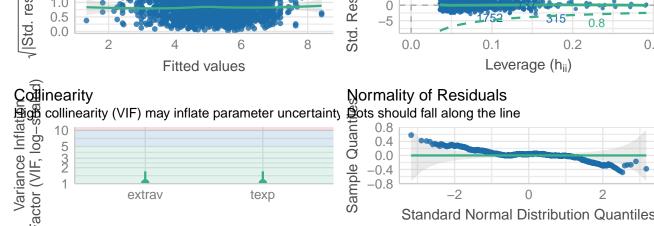
Normality of Residuals

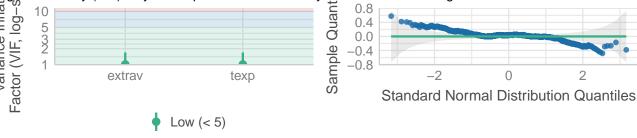


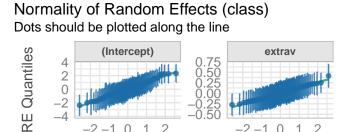
Low (< 5) High (... 10)



Posterior Predictive Check Linearity Model-predicted lines should resemble observed data I Reference line should be flat and horizontal Residuals 0.3 Density 0.2 0.1 0.0 Fitted values popular Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.5 2 4 6 Points should be inside the contour lines 888 0 1/52 315 0 0 0.0 0.1 0.2 0.3



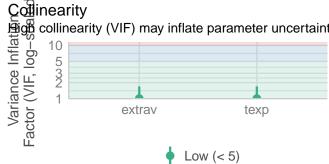




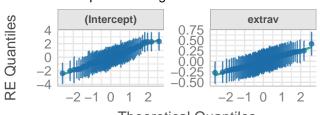
Theoretical Quantiles

Posterior Predictive Check Linearity Model-predicted lines should resemble observed data I Reference line should be flat and horizontal Residuals 0.3 Density 0.2 0.1 0.0 Fitted values popular Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.5 2 4 6 Region Collinearity Solution Collinearity Solution Collinearity Solution Collinearity Solution Collinearity Englinearity Solution Collinearity Solution C 0.3 Leverage (h_{ii})

Standard Normal Distribution Quantiles



Normality of Random Effects (class) Dots should be plotted along the line



Theoretical Quantiles