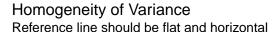
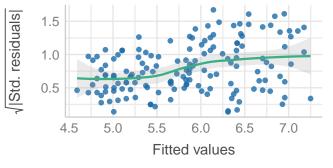
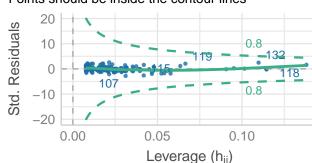
Posterior Predictive Check Linearity Model-predicted lines should resemble observed data li Reference line should be flat and horizontal 0.5 1.0 0.4 Residuals 0.5 Density 0.3 0.0 0.2 -0.50.1 -1.00.0 3 4.5 5.0 5.5 6.0 6.5 7.0 Sepal.Length Fitted values Observed data - Model-predicted data

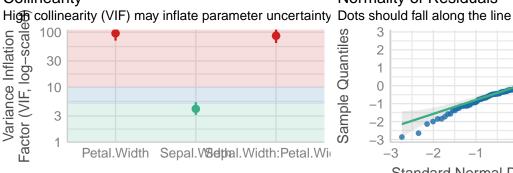




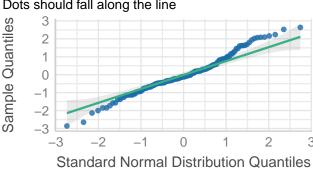
Influential Observations Points should be inside the contour lines



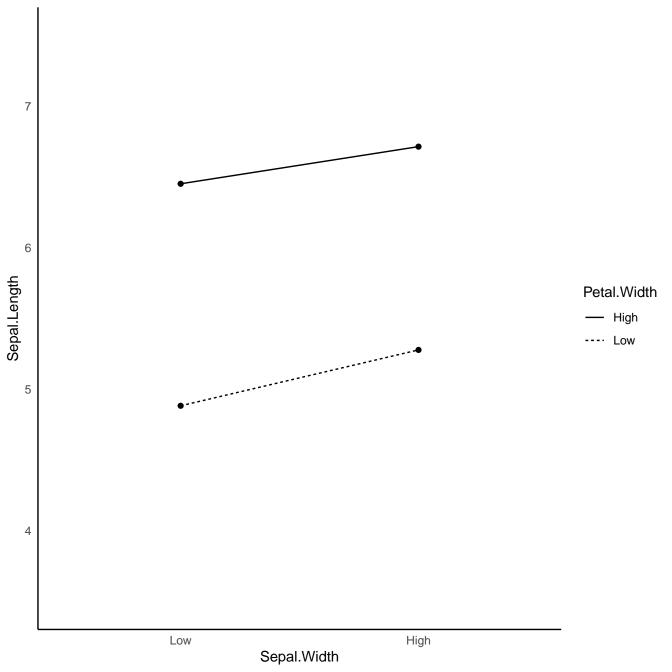
Collinearity

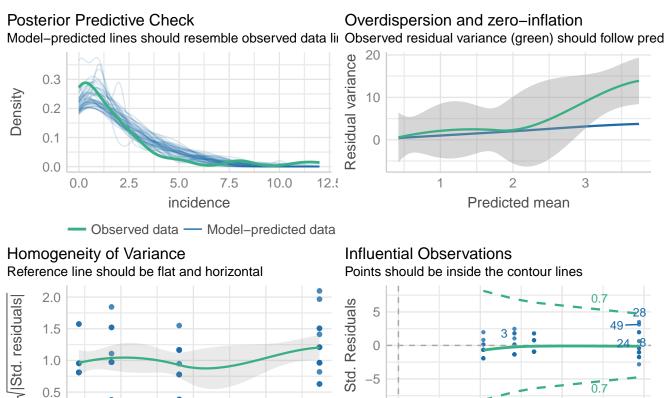


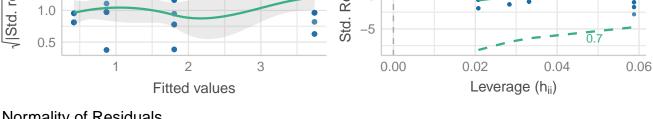
Normality of Residuals



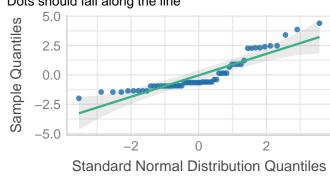
Low (< 5) High (... 10)



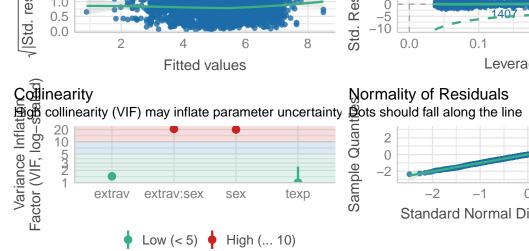




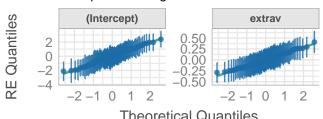
Normality of Residuals Dots should fall along the line



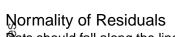
Posterior Predictive Check Linearity Model-predicted lines should resemble observed data li Reference line should be flat and horizontal 0.3 Residuals Density 0.2 0.1 0.0 0.0 2.5 5.0 7.5 10.0 2 popular Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.0 2 4 6 Points should be inside the contour lines 10 1345 527 868 27 1340 315 0 0.0 0.1 0.2 0.9 0.3 Leverage (h_{ii})

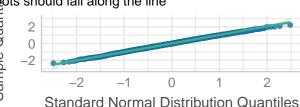


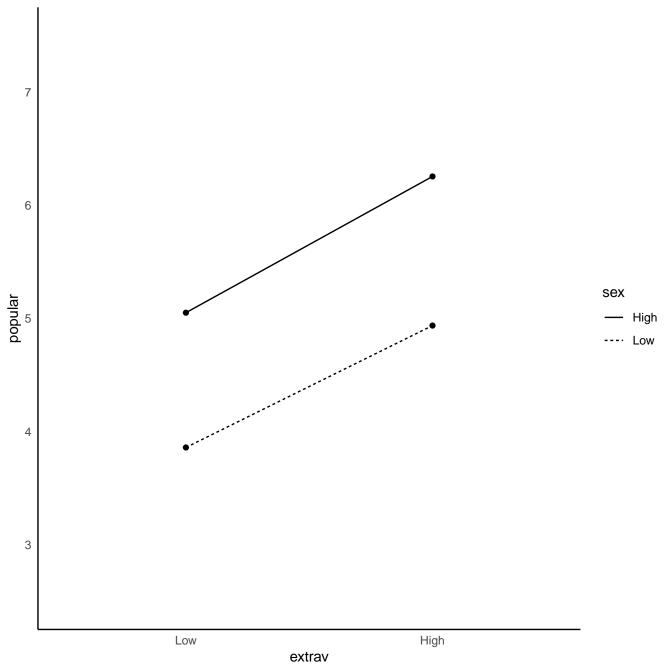
Normality of Random Effects (class) Dots should be plotted along the line



Theoretical Quantiles

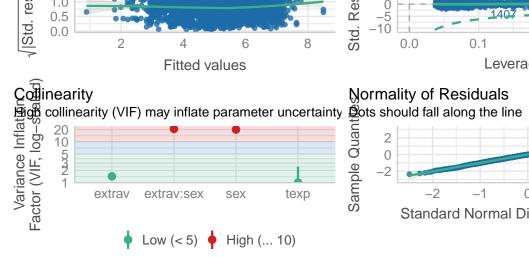




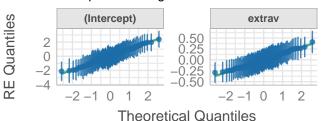


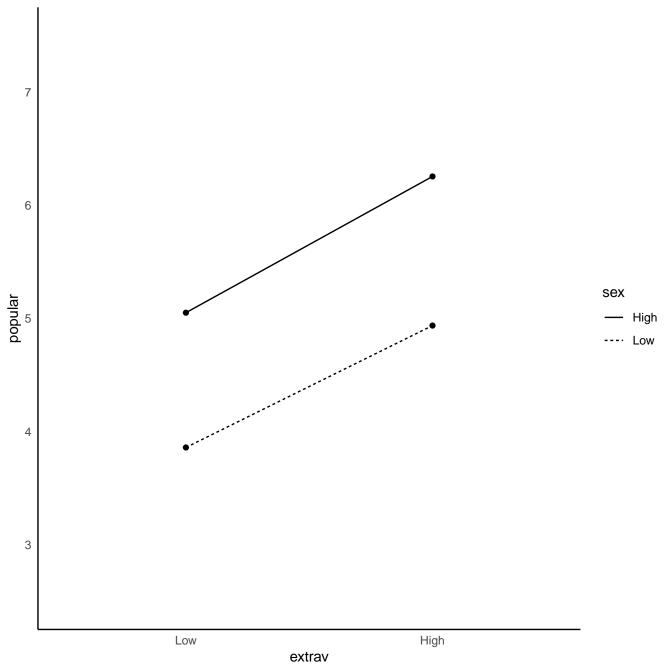
Posterior Predictive Check Linearity Model-predicted lines should resemble observed data li Reference line should be flat and horizontal 0.3 Residuals Density 0.2 0.1 0.0 2 popular Fitted values Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.0 2 4 6 Points should be inside the contour lines 10 1345 527 868 27 1345 527 868 1407 315 0 0.0 0.1 0.2 0.9 0.3 Leverage (h_{ii})

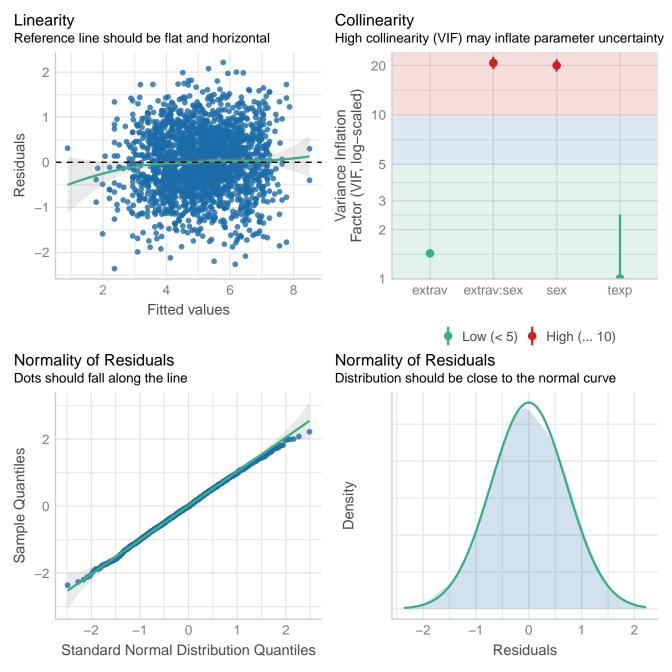
() Standard Normal Distribution Quantiles

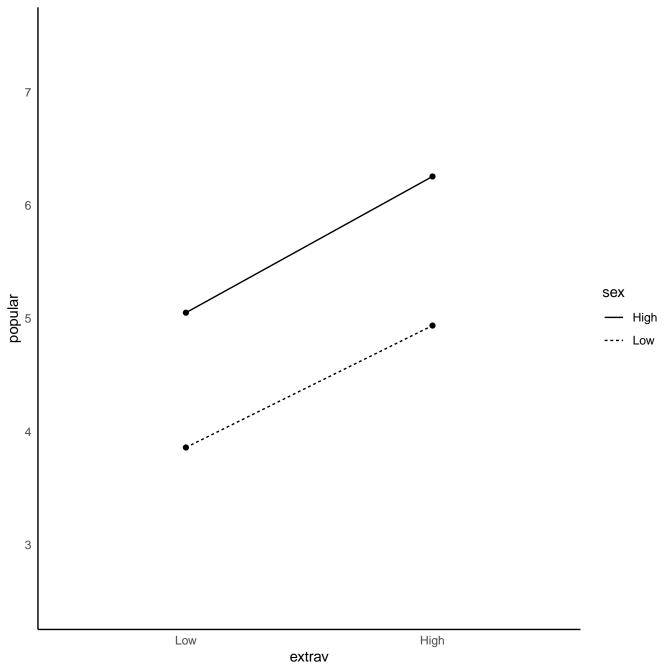








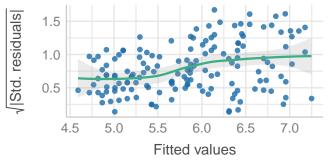




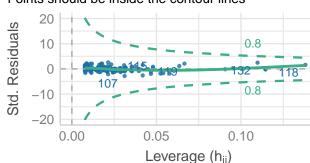
Posterior Predictive Check Linearity Model-predicted lines should resemble observed data li Reference line should be flat and horizontal 1.0 0.4 Residuals 0.5 Density 0.0 0.2 -0.5-1.00.0 5 4.5 5.0 5.5 6.0 6.5 7.0 Sepal.Length Fitted values

Observed data — Model-predicted data

Homogeneity of Variance Reference line should be flat and horizontal



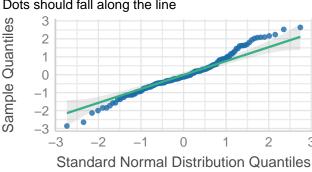
Influential Observations Points should be inside the contour lines



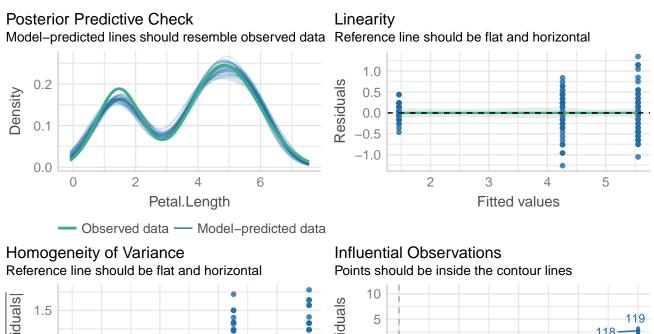
Collinearity

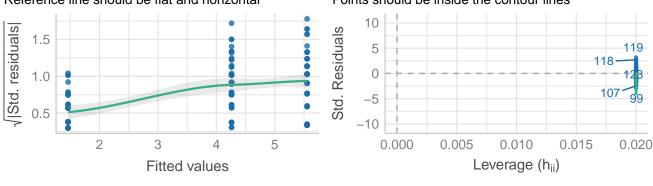
High collinearity (VIF) may inflate parameter uncertainty Dots should fall along the line 100 Factor (VIF, log-scale Variance Inflation 30 10 3 Petal.Width Sepal. W9ethal. Width: Petal. Wi

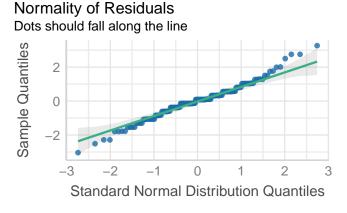
Normality of Residuals

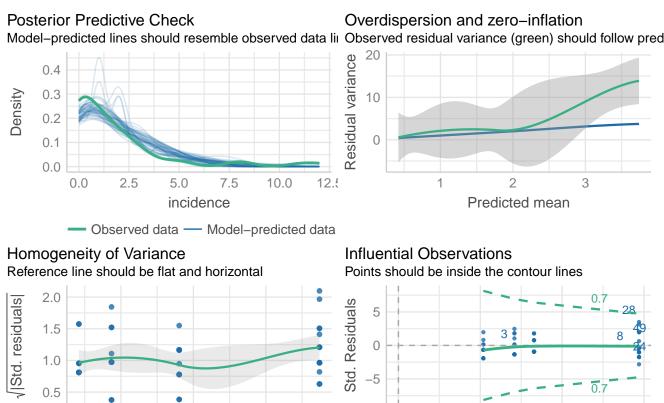


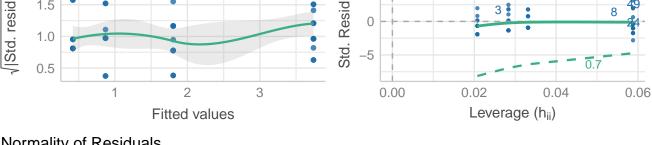
Low (< 5) High (... 10)



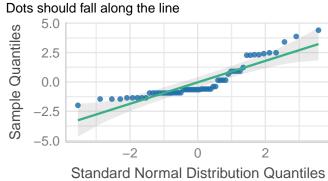


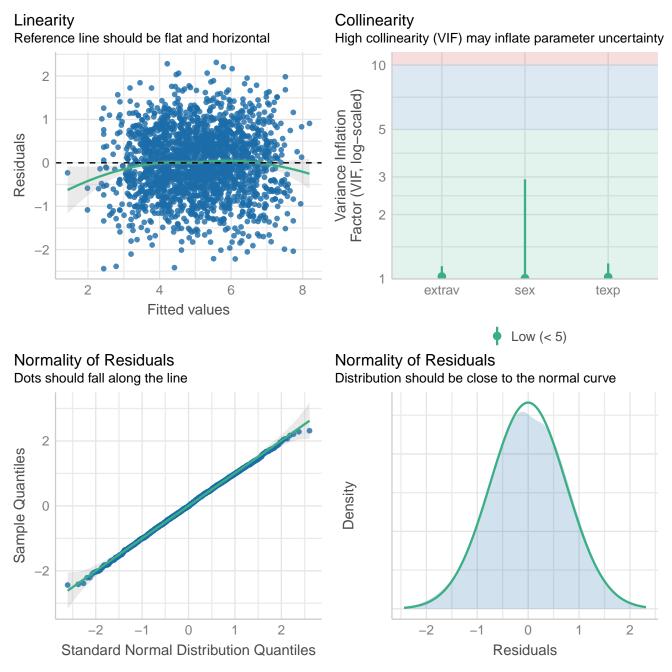






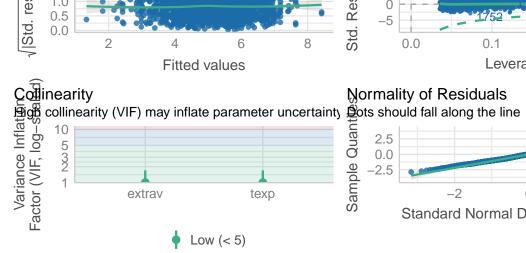
Normality of Residuals



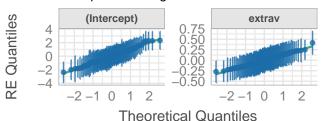


Posterior Predictive Check Linearity Model-predicted lines should resemble observed data I Reference line should be flat and horizontal Residuals 0.3 Density 0.2 0.1 0.0 0.0 2.5 5.0 7.5 10.0 Fitted values popular Observed data — Model-predicted data Homogeneity of Variance Influential Observations Reference line should be flat and horizontal 1.5 1.0 0.5 0.0 2 4 6 0.3 Leverage (h_{ii})

Standard Normal Distribution Quantiles

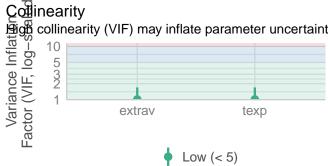


Normality of Random Effects (class) Dots should be plotted along the line



Posterior Predictive Check Linearity Model-predicted lines should resemble observed data 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 0.0 2 4 6 Points should be inside the contour lines Boy 5 Boy 5 Boy 5 Boy 674 B888 Boy 7 Boy 7 Boy 7 Boy 7 Boy 7 Boy 7 Boy 888 Boy 7 Boy 7 Boy 888 Boy 7 Boy 888 Boy 7 Boy 888 Boy 8 Boy 8 Boy 9 Region Collinearity Solution Collinearity Solution Collinearity Solution Collinearity Solution Collinearity Englinearity Solution Collinearity Solution Collinearity Englinearity Solution Collinearity Englinearity Solution Collinearity Solution Collinearity Englinearity Solution Collinearity Englinearity Solution Collinearity Englinearity Solution Collinearity Englinearity 0.3 Leverage (h_{ii})

Standard Normal Distribution Quantiles



Normality of Random Effects (class)

