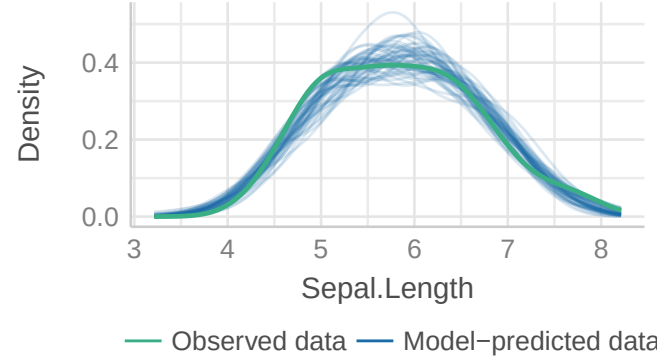
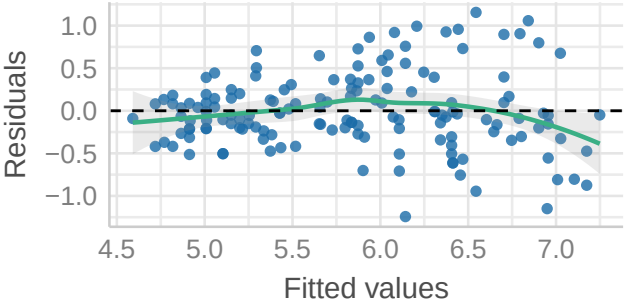
## Posterior Predictive Check

Model−predicted lines should resemble observed data li



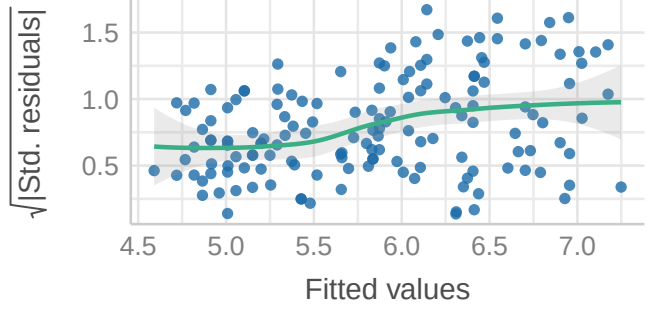

## Linearity

Reference line should be flat and horizontal



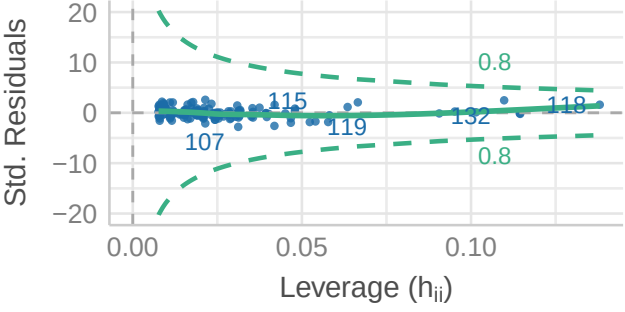

## Homogeneity of Variance

Reference line should be flat and horizontal



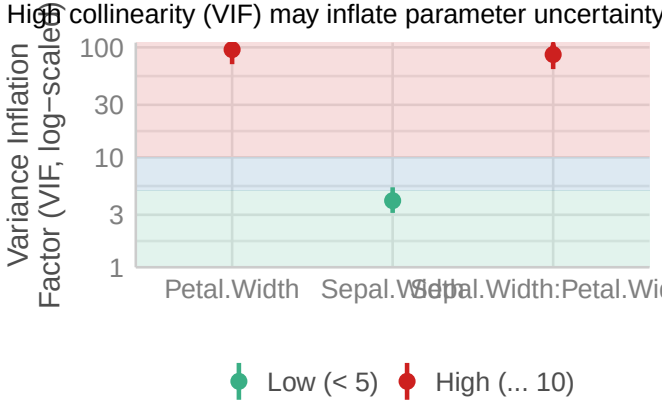

## Influential Observations

Points should be inside the contour lines



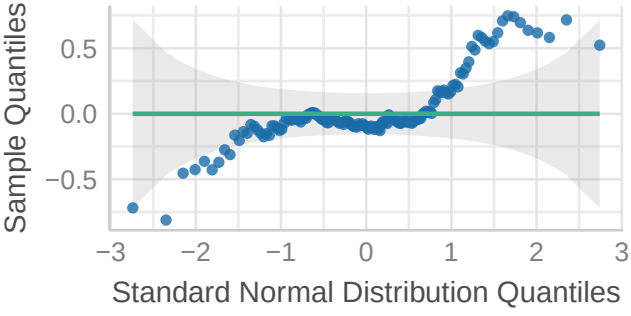

## Collinearity

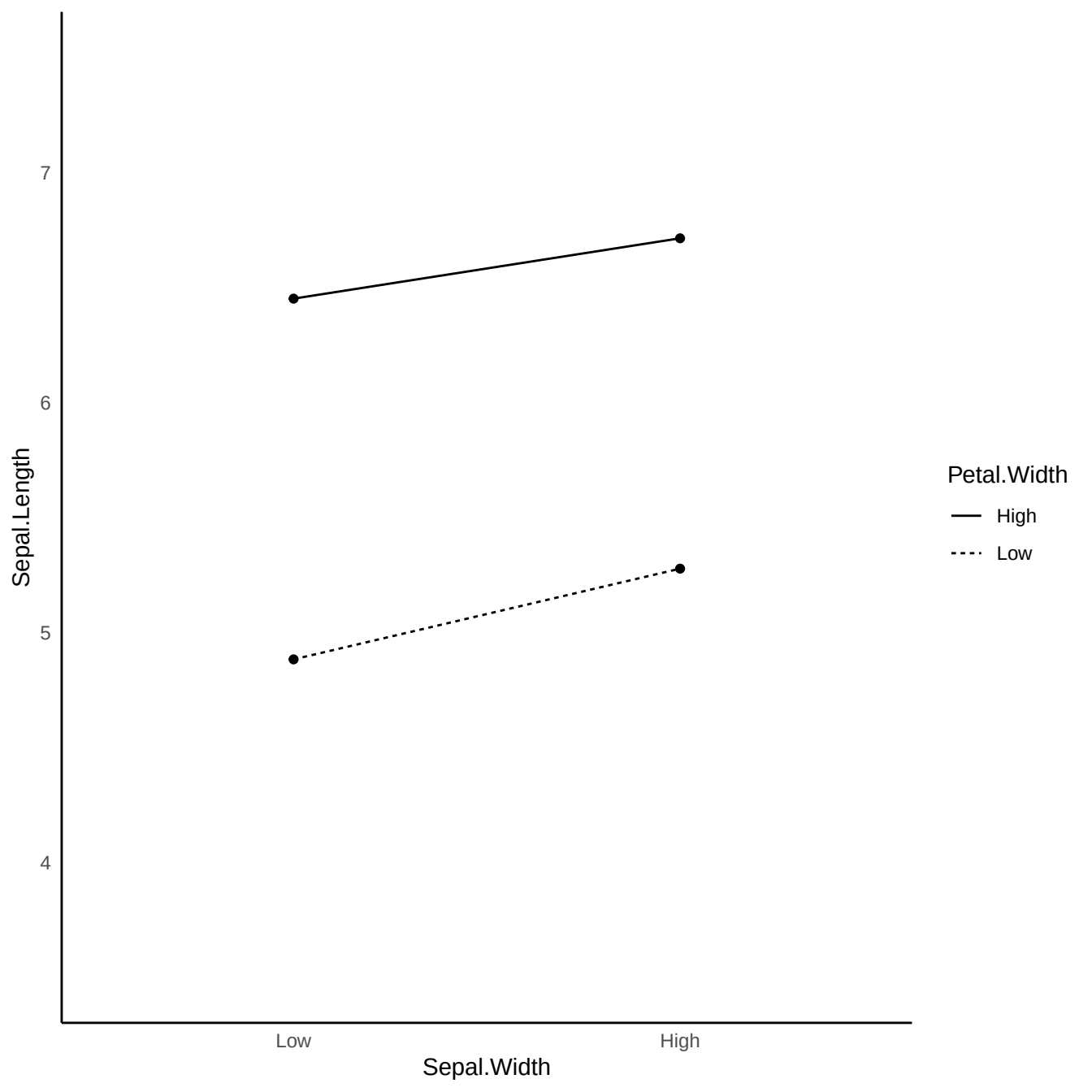
High collinearity (VIF) may inflate parameter uncertainty




## Normality of Residuals

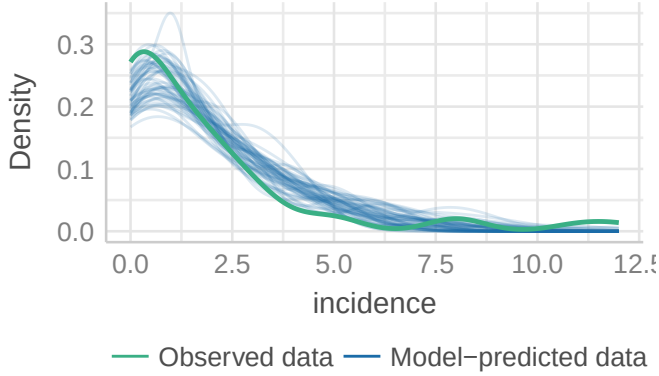
Dots should fall along the line




7
6
5
4
Sepal.Length
Low
High
Sepal.Width
Petal.Width
High
Low

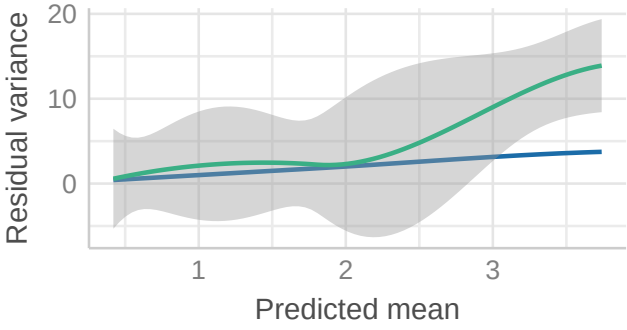
## Posterior Predictive Check

Model−predicted lines should resemble observed data l



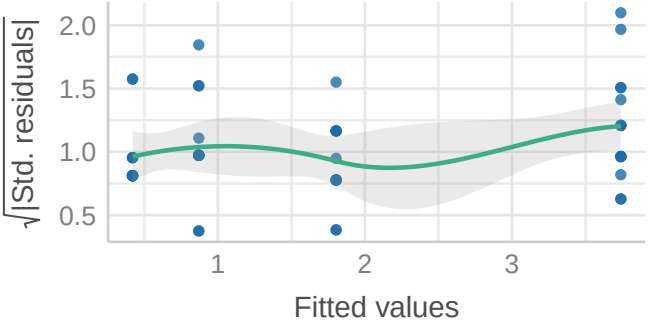

## Overdispersion and zero−inflation

Observed residual variance (green) should follow predic



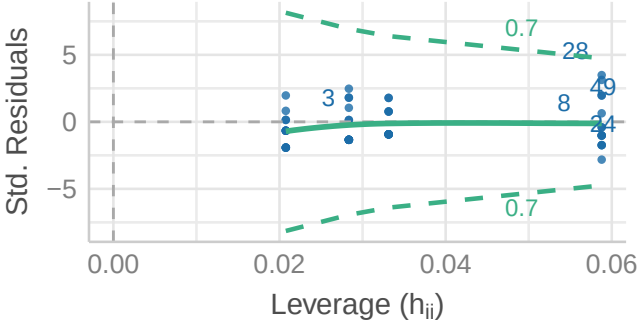

## Homogeneity of Variance

Reference line should be flat and horizontal



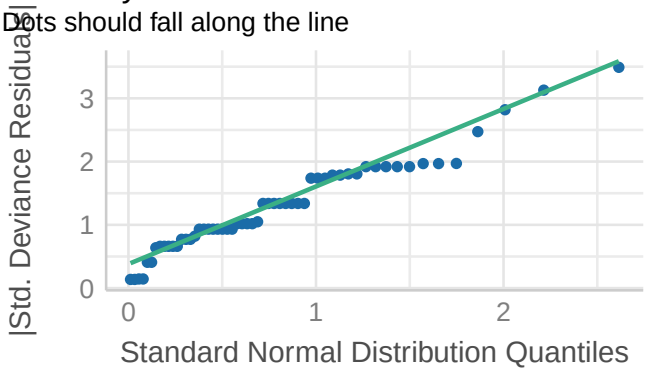

## Influential Observations

Points should be inside the contour lines



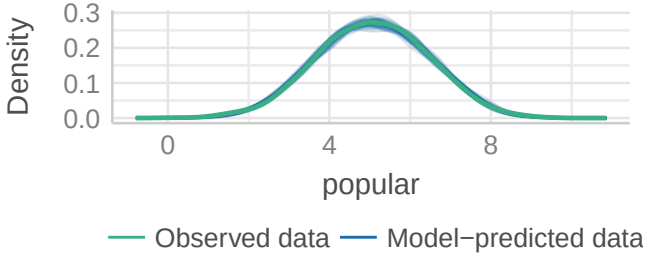

## Normality of Residuals

Dots should fall along the line



## Posterior Predictive Check

Model−predicted lines should resemble observed data l

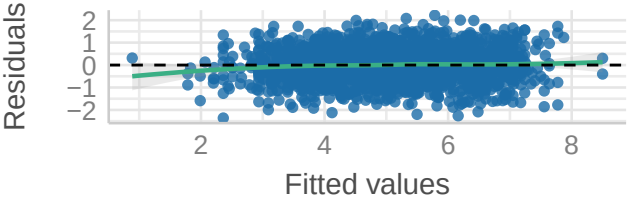






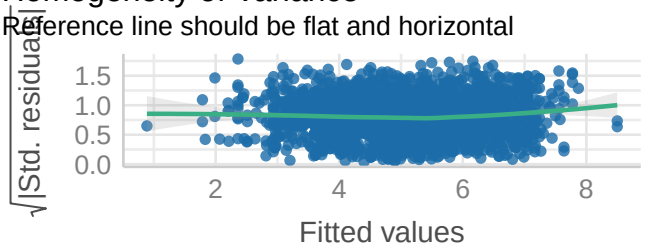
## Linearity

Reference line should be flat and horizontal



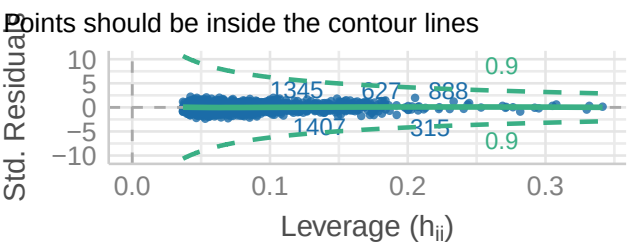

## Homogeneity of Variance

Reference line should be flat and horizontal



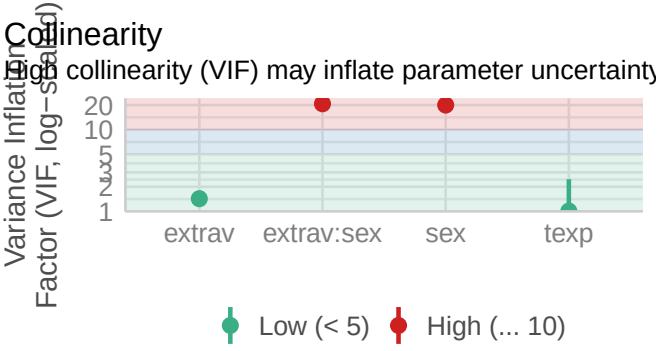

## Influential Observations

Points should be inside the contour lines



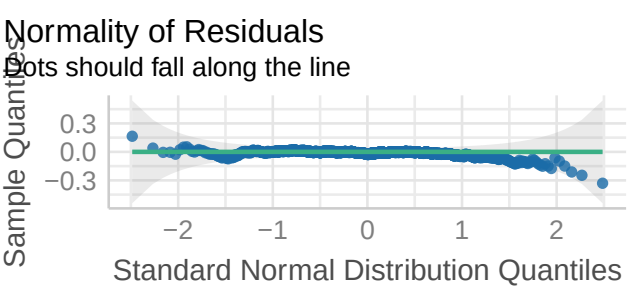

## Collinearity

High collinearity (VIF) may inflate parameter uncertainty



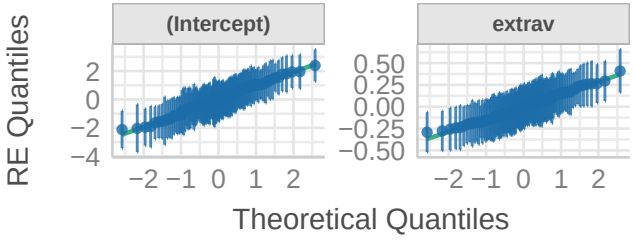

## Normality of Residuals

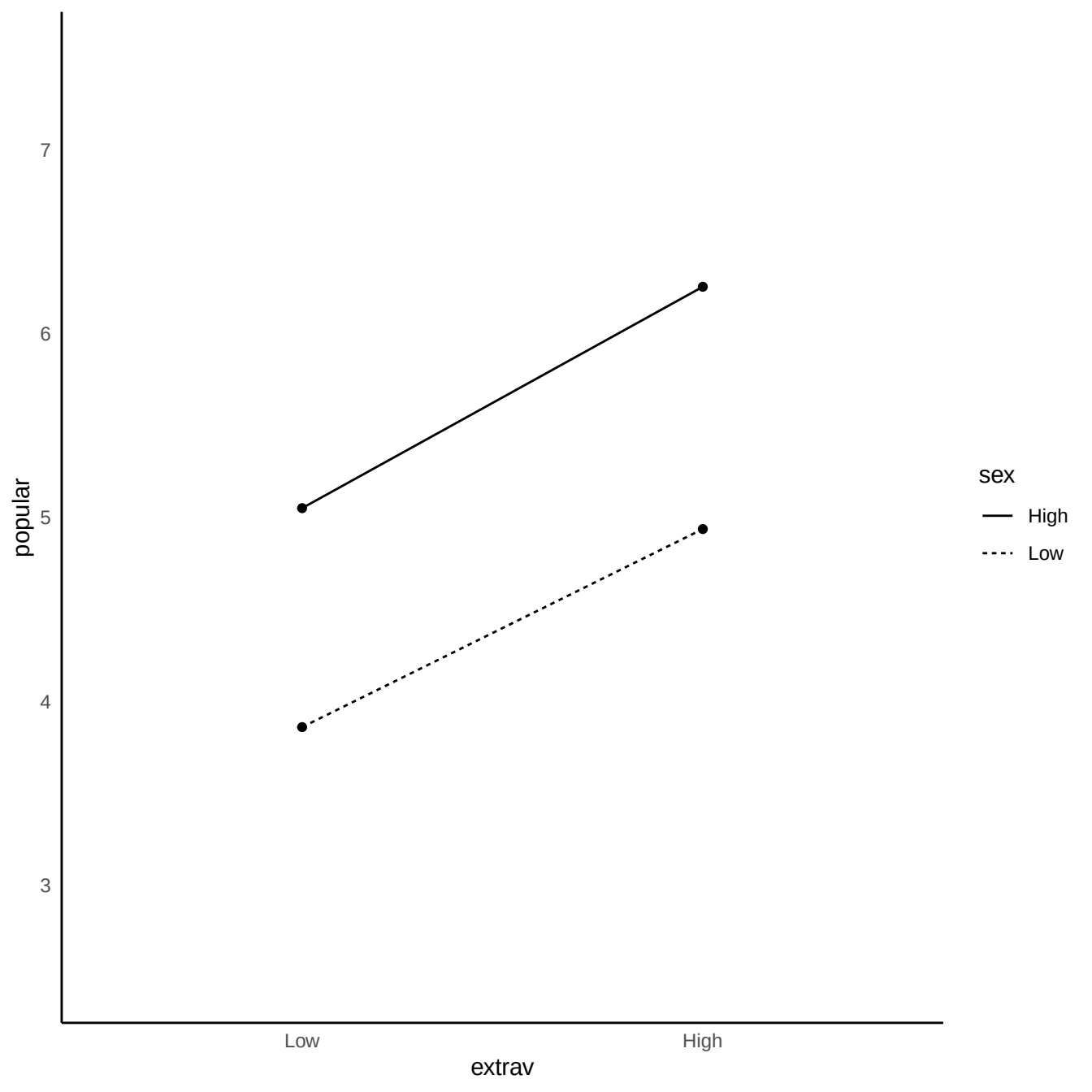
Dots should fall along the line

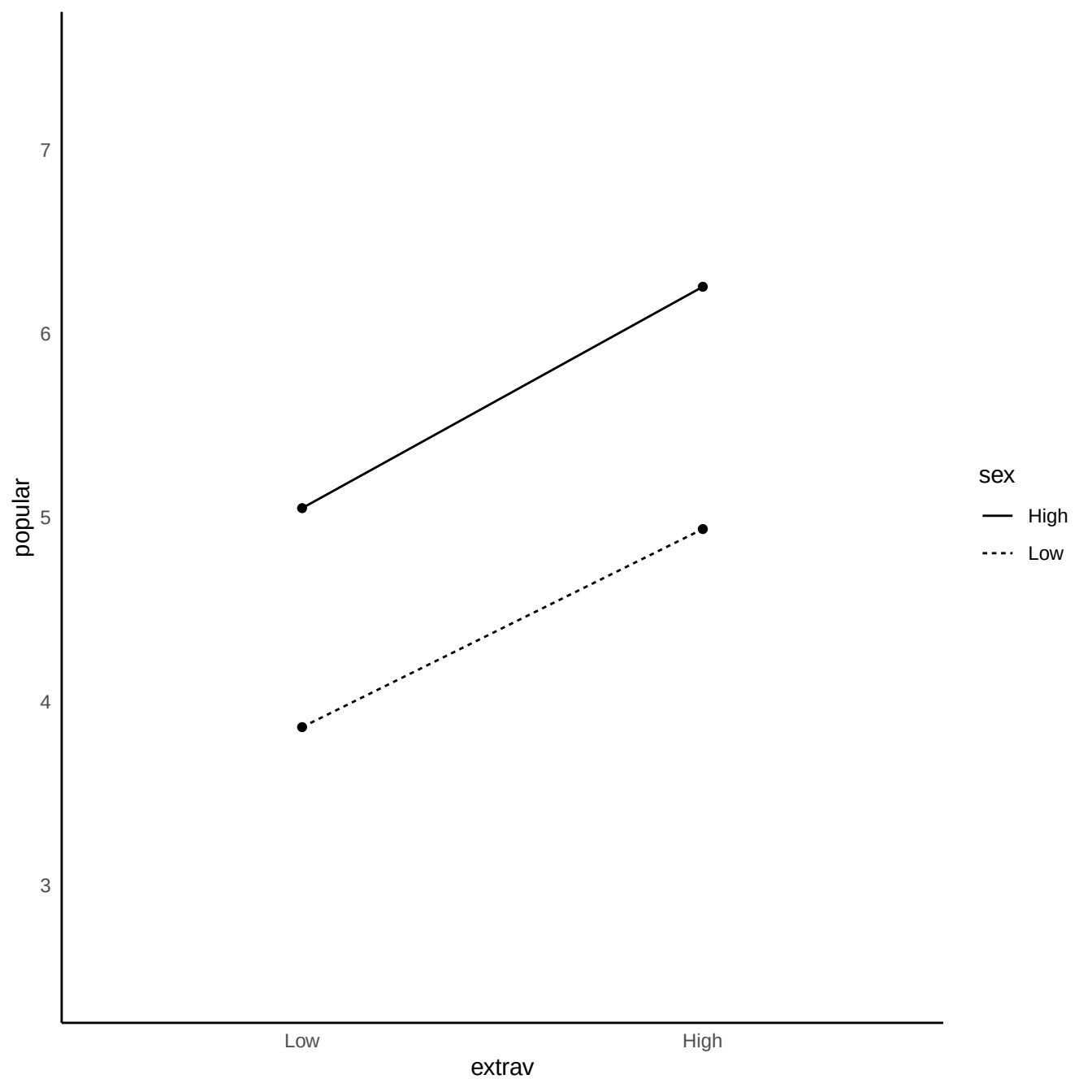



## Normality of Random Effects (class)

Dots should be plotted along the line

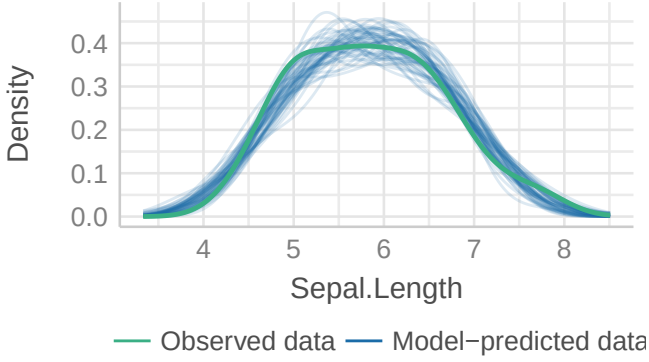



7
6
5
4
3
popular
Low
High
extrav
sex
High
Low


7
6
5
4
3
popular
Low
High
extrav
sex
High
Low

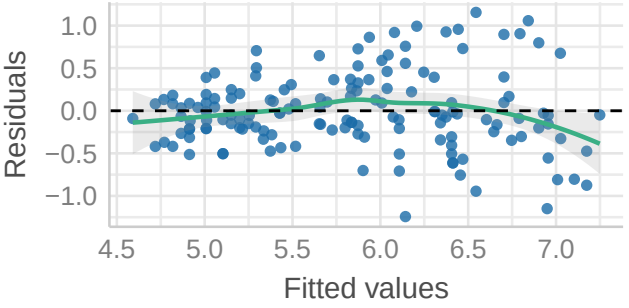
## Posterior Predictive Check

Model−predicted lines should resemble observed data li



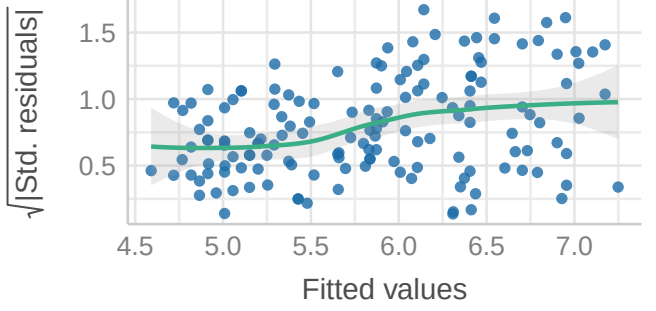

## Linearity

Reference line should be flat and horizontal



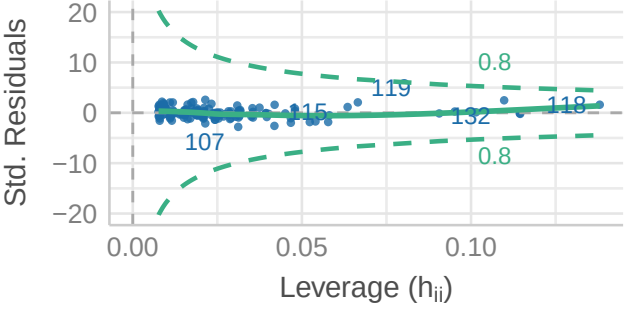

## Homogeneity of Variance

Reference line should be flat and horizontal



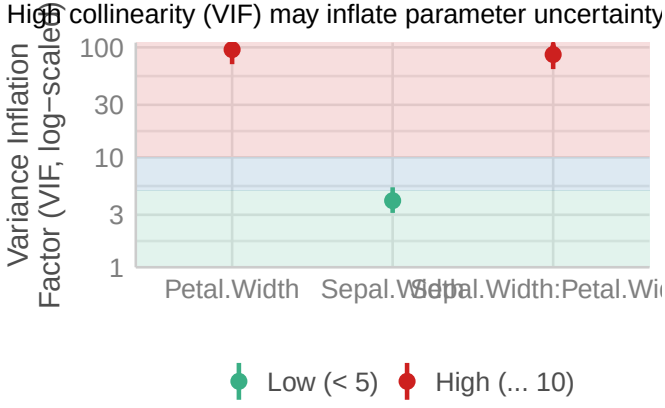

## Influential Observations

Points should be inside the contour lines



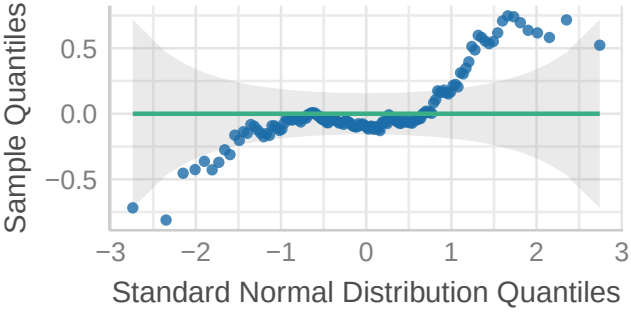

## Collinearity

High collinearity (VIF) may inflate parameter uncertainty



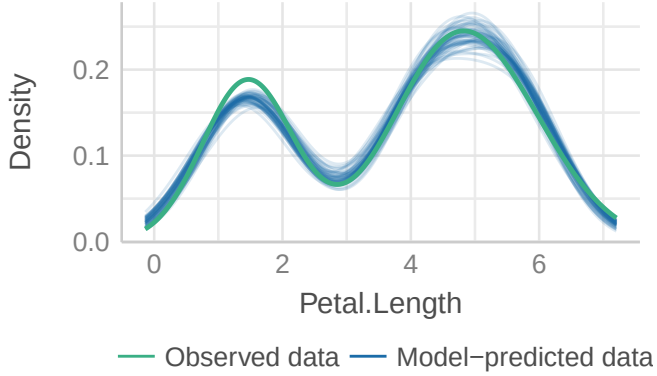

## Normality of Residuals

Dots should fall along the line



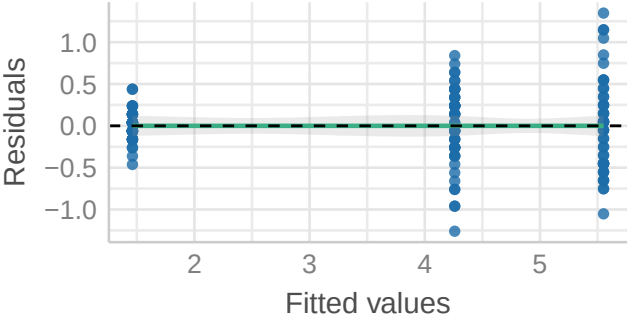
## Posterior Predictive Check

Model−predicted lines should resemble observed data l



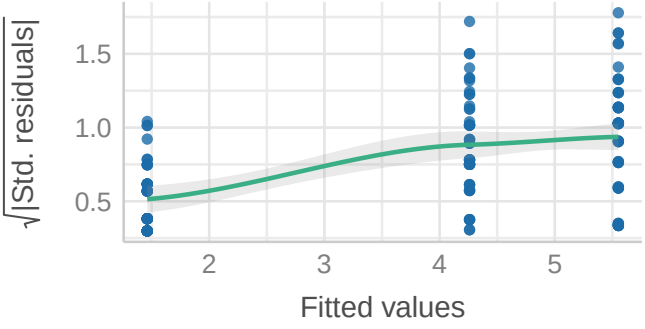

## Linearity

Reference line should be flat and horizontal



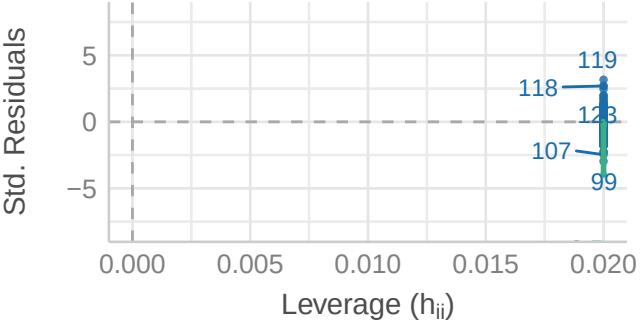

## Homogeneity of Variance

Reference line should be flat and horizontal



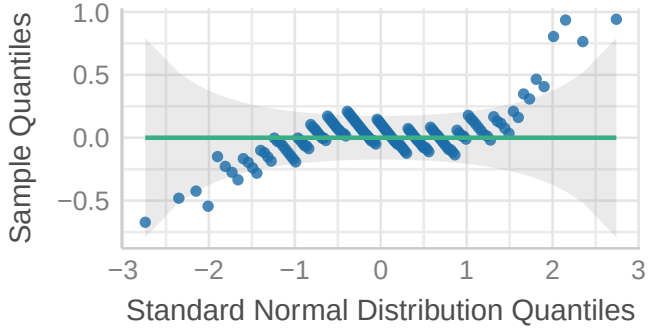

## Influential Observations

Points should be inside the contour lines



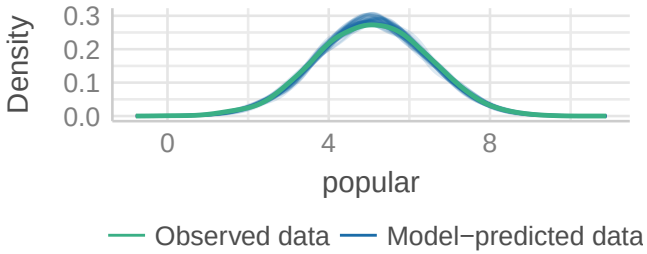

## Normality of Residuals

Dots should fall along the line



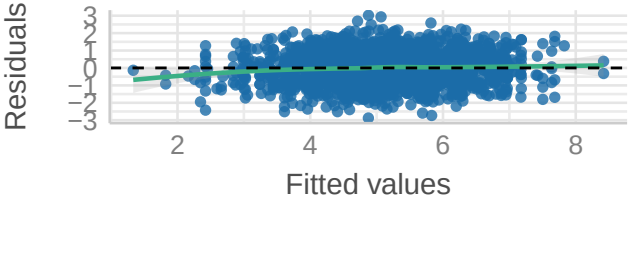
## Posterior Predictive Check

Model−predicted lines should resemble observed data l



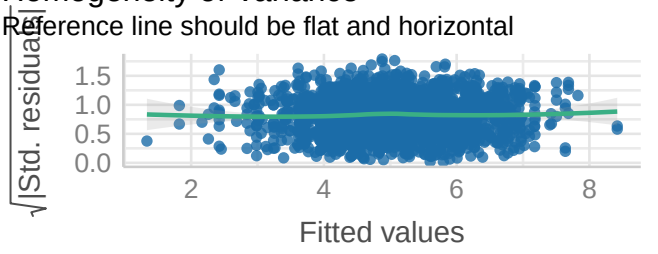
## Linearity

Reference line should be flat and horizontal



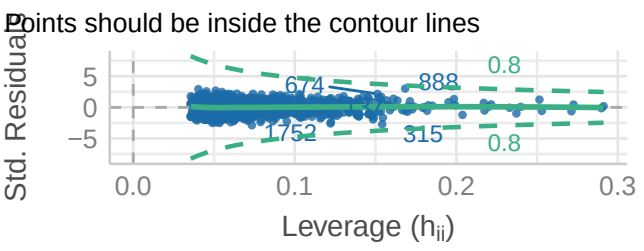

## Homogeneity of Variance

Reference line should be flat and horizontal



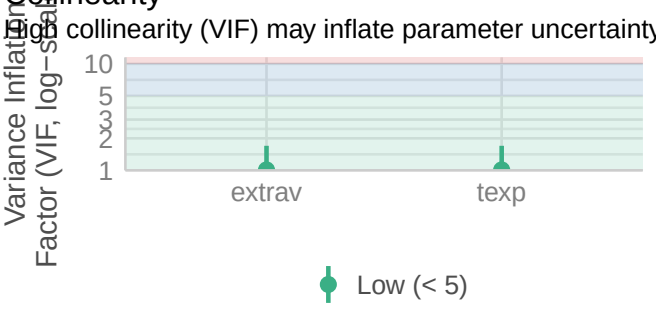

## Influential Observations

Points should be inside the contour lines




## Collinearity

High collinearity (VIF) may inflate parameter uncertainty

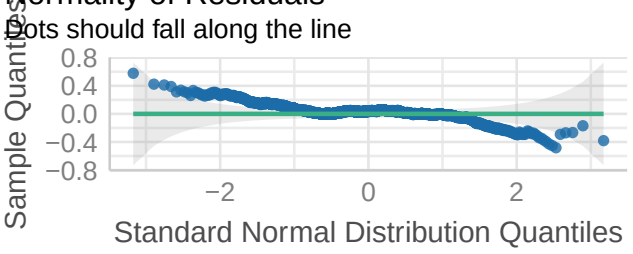






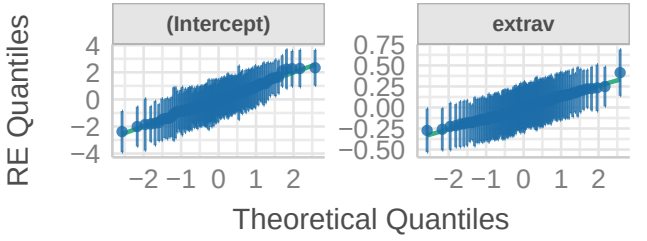
## Normality of Residuals

Dots should fall along the line



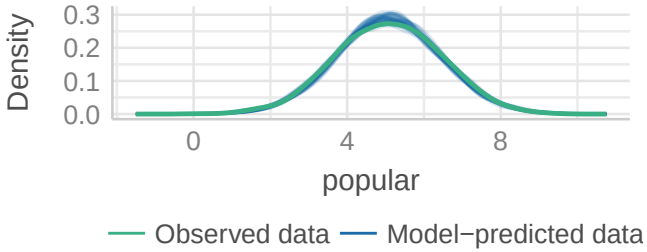

## Normality of Random Effects (class)

Dots should be plotted along the line



## Posterior Predictive Check

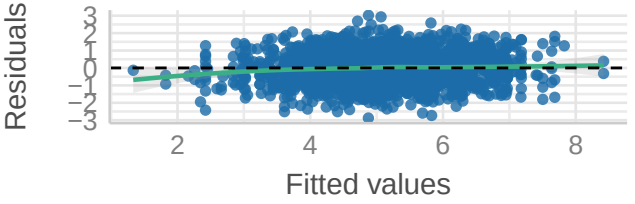
Model−predicted lines should resemble observed data l




Observed data  Model−predicted data

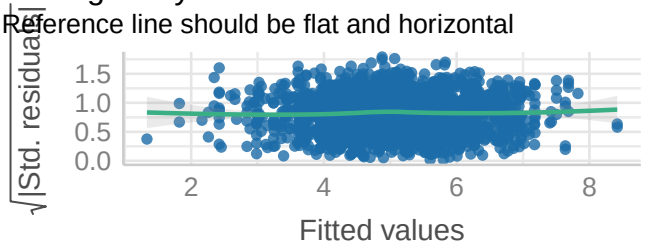
## Linearity

Reference line should be flat and horizontal



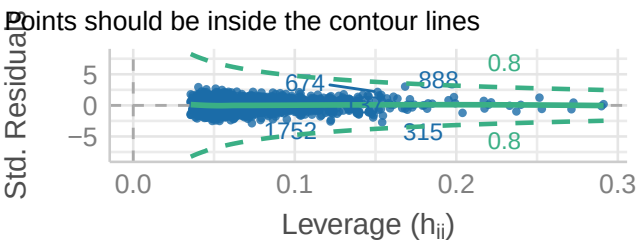

## Homogeneity of Variance

Reference line should be flat and horizontal



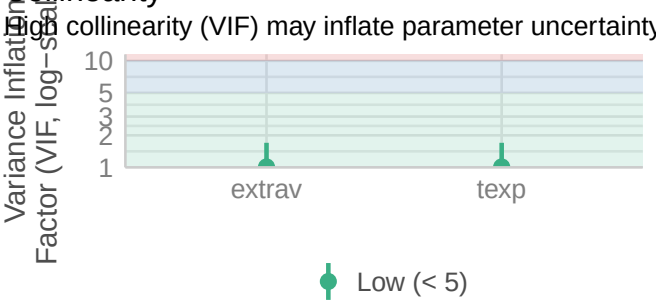

## Influential Observations

Points should be inside the contour lines



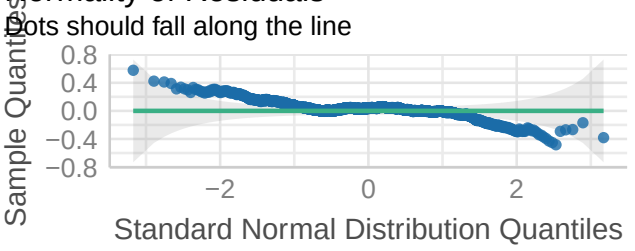

## Collinearity

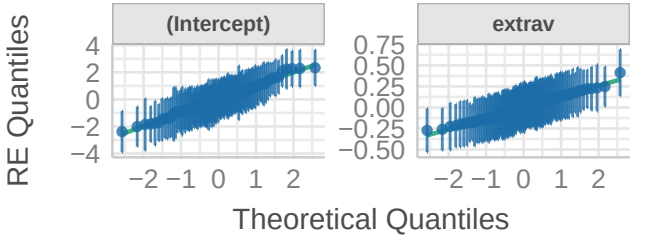
High collinearity (VIF) may inflate parameter uncertainty




## Normality of Residuals

Dots should fall along the line




## Normality of Random Effects (class)

Dots should be plotted along the line