Posterior Predictive Check
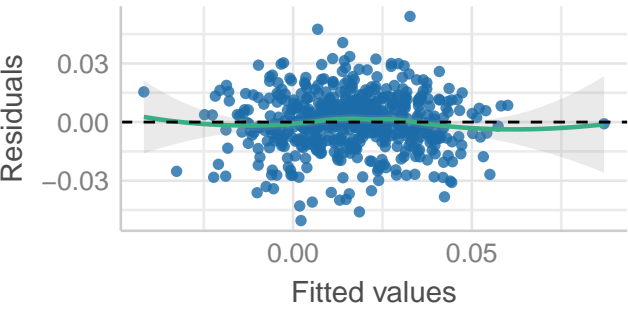Model–predicted lines should resemble observed data

Density vs change_in_weight
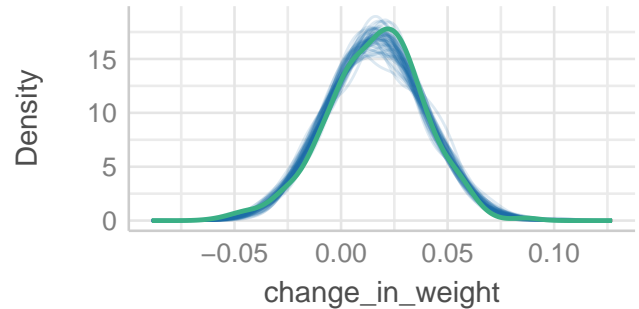
el–predicted data ━ Observed data ━ Observed data

Linearity
Reference line should be flat and horizontal

Residuals vs Fitted values

Homogeneity of Variance
Reference line should be flat and horizontal

$\sqrt{|\text{Std. residuals}|}$ vs Fitted values
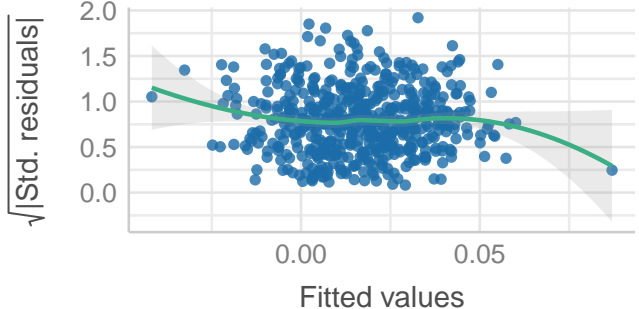
Influential Observations
Points should be inside the contour lines

Std. Residuals vs Leverage (h_{ii})

0.9

584   255   137   126 535

0.9
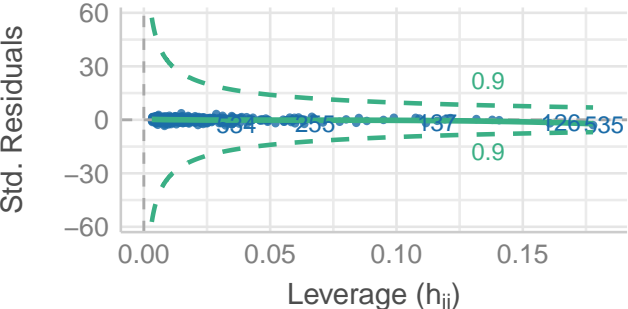
Collinearity
High collinearity (VIF) may inflate parameter uncertainty

Variance Inflation Factor (VIF, log–scale)

diedisdiostgamirelsoteassatifigmigassaso
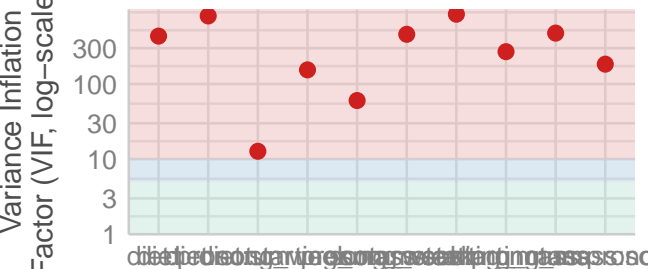
High (... 10)

Normality of Residuals
Dots should fall along the line

Sample Quantiles vs Standard Normal Distribution Quantiles