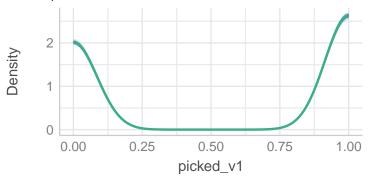
## reg\_rate \* variation + baseline\_log\_odds\_jitter \* reg\_dist

#### Posterior Predictive Check

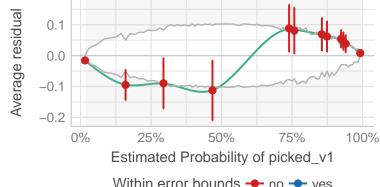
Model-predicted lines should resemble observed data line



del-predicted data — Observed data — Observed data —

#### Binned Residuals

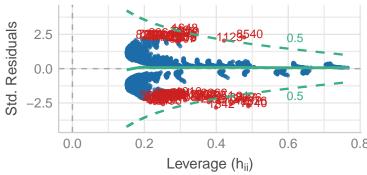
Points should be within error bounds



Within error bounds ← no ← yes

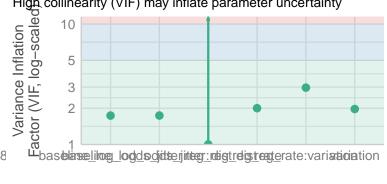
#### Influential Observations

Points should be inside the contour lines



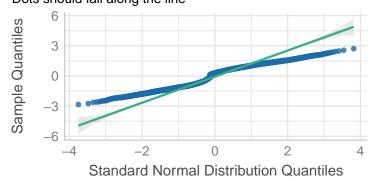
## Collinearity

High collinearity (VIF) may inflate parameter uncertainty

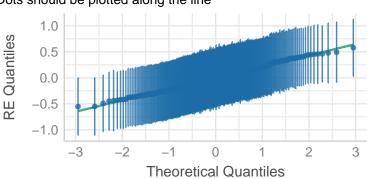


Low (< 5)

### Normality of Residuals Dots should fall along the line



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



# Normality of Random Effects (part\_id)

Dots should be plotted along the line

