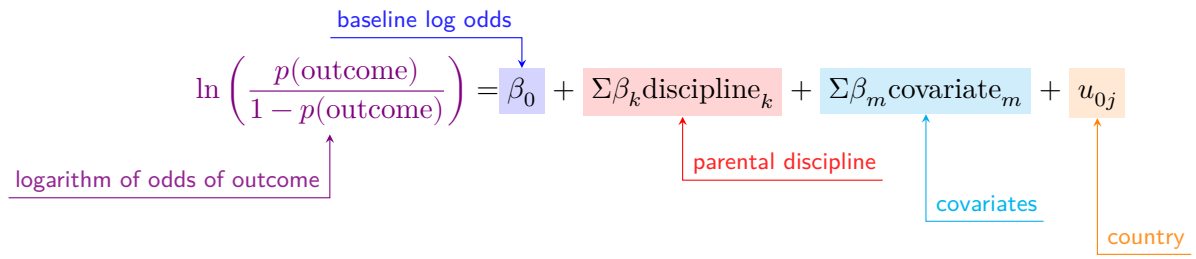


# Annotated Equation



The diagram shows a logistic regression equation with four terms on the right side, each highlighted in a colored box and annotated with a label and an arrow. The left side of the equation is the log-odds of the outcome, also annotated. The terms are: a blue box for the intercept  $\beta_0$  (labeled 'baseline log odds'), a red box for the discipline term  $\sum \beta_k \text{discipline}_k$  (labeled 'parental discipline'), a light blue box for the covariate term  $\sum \beta_m \text{covariate}_m$  (labeled 'covariates'), and an orange box for the error term  $u_{0j}$  (labeled 'country').

$$\ln \left( \frac{p(\text{outcome})}{1 - p(\text{outcome})} \right) = \beta_0 + \sum \beta_k \text{discipline}_k + \sum \beta_m \text{covariate}_m + u_{0j}$$

Annotations:

- baseline log odds (points to  $\beta_0$ )
- parental discipline (points to  $\sum \beta_k \text{discipline}_k$ )
- covariates (points to  $\sum \beta_m \text{covariate}_m$ )
- country (points to  $u_{0j}$ )
- logarithm of odds of outcome (points to the left side of the equation)