



Variable	Example	Type of Regression	R function / R function for mixed models
Continuous	Age, Quality of Life	linear	<code>lm</code>
			<code>lmer()</code> , <code>glmmTMB()</code>
Binary	Success yes/no	binary logistic	<code>glm(family=binomial)</code>
			<code>glmer()</code> , <code>glmmTMB()</code>
Trials	20 successes out of 30 trials	logistic	<code>glm(cbind(trial, success), family=binomial)</code>
			<code>glmer()</code> , <code>glmmTMB()</code>
Count data	Number of usage, counts of events	Poisson	<code>glm(family=poisson)</code>
			<code>glmer()</code> , <code>glmmTMB()</code>
Count data, with excess zeros or overdispersion	Number of usage, counts of events (with higher variance than mean of response)	negative binomial	<code>glm.nb()</code>
			<code>glmer.nb()</code> , <code>glmmTMB(family=nbinom)</code>
Count data with very many zeros (inflation)	see count data, but response is modelled as mixture of Bernoulli Poisson distribution	zero-inflated	<code>zeroinfl()</code>
			<code>glmmTMB(ziformula, family=poisson)</code>
Count data, with very many zeros (inflation) and overdispersion	Number of usage, counts of events (with higher variance than mean of response)	zero-inflated negative binomial	<code>zeroinfl(dist="negbin")</code>
			<code>glmmTMB(ziformula, family=nbinom)</code>
Count data with very many zeros	see count data, but Bernoulli probability governs whether response is zero or positive	hurdle	<code>hurdle()</code>
			<code>glmmTMB(family=truncated_*)</code>
Proportion / Ratio (without zero and one)	Percentages, proportions	Beta	<code>betareg()</code>
			<code>glmmTMB(family=beta)</code>
Proportion / Ratio (including zero and one)	Percentages, proportions	Beta-Binomial	<code>BBreg()</code> , <code>betabin()</code>
Ordinal	Likert scale, worse/ok/better	ordinal, proportional odds	<code>polr()</code> , <code>clm()</code>
			<code>clmm()</code> , <code>mixor()</code> , <code>MCMCglmm()</code>
Cumulative, multinomial	No natural order of categories, like red/green/blue	cumulative link, multinomial	<code>multinom()</code> , <code>clm()</code> , <code>brac1()</code> , <code>brmultinom()</code>
			<code>clmm()</code> , <code>mixor()</code> , <code>MCMCglmm()</code>
Continuous, right-skewed	Financial data, reaction times	Gamma	<code>glm(family=Gamma)</code>
			<code>glmer()</code> , <code>glmmTMB()</code>
Continuous, but truncated or outliers		truncated	<code>censReg()</code> , <code>tobit()</code> , <code>vglm(tobit())</code>
		Dirichlet	