INDEPENDENT OBSERVATIONS	DEPENDENT OBSERVATIONS	DEPENDENT OBSERVATIONS		
LINEAR MODELS LM	LINEAR MIXED MODELS LMM	LINEAR MIXED MODELS LMM		
- Linear relation Im() - Normal error distribution aov()	- Linear relation - Normal error distribution - RANDOM FACTOR			
GENERALISED LINEAR MODELS GLM	GENERALISED LINEAR MIXED MODELS GLMM	GENERALISED LINEAR MIXED MODELS GLMM		
- Linear relation glm() - Error distribution: e.g. multinom() Poisson, Binomial polr()	glmer() - Linear relation gee() - Other error distribution: glmmPQL() e.g. Poisson, Binomial MCMCglmm()			
GENERALISED ADDITIVE MODELS GAM	GENERALISED ADDITIVE MIXED EFFECT MODELS GAM	GENERALISED ADDITIVE MIXED EFFECT MODELS GAMM		
- Non-linear relation gam()	- Non-linear relation gamm()			

for GLM/ GLMM Models				
DISTRIBUTION	family =	link function	link	
Binomial	binomial	log(M/(1-u))	logit	
Poisson	poisson	log(M)	log	
Normal	gaussian	u	identity	
Gamma	gamma	1/u	inverse	
Quasi	quasi	tan(pi(u-0.5))	cauchit	

→ RANDOM FACTOR!

<u>Ime</u> = fits a mixed model for normally distributed data

gls = generalized least square model

<u>glmmPQL</u> = fits a generalized linear mixed model but does not use AIC or Likelihood!

<u>Imer</u> = fits a generalized linear mixed model & can deal with crossed random factors

glmer = as Imer but for non-normal data

<u>MCMCglmm</u> = gives the MCMC posterior distributions of the parameters. Accounts for overdispersion