Classical one-way ANOVA formulation:

Yij = Mi + Zij

 $M_i = population means for group <math>i = 1, 2, ..., g$

Residuals (observed & ij)

eij = Mij (ûi)

Rewriting the ANOVA model say we have q = 3 $M = M; + E_{\bar{r}_1}$ M1 x1 + M2 DC2 + M3 (X3) + E1 =1 if observation comes from group 1, 0 otherwise. = (2) + B x2 + J x3 + E d= M B= (Mz-Mi) & difference between group 1 and 2 $\mathcal{J} = (\mu_3 - \mu_1)$ 1 2 2