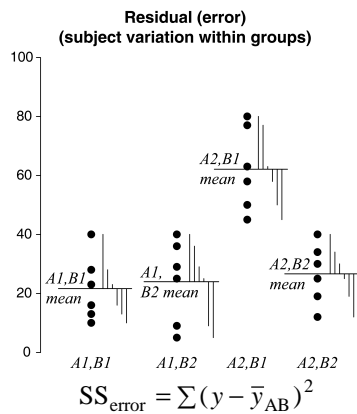
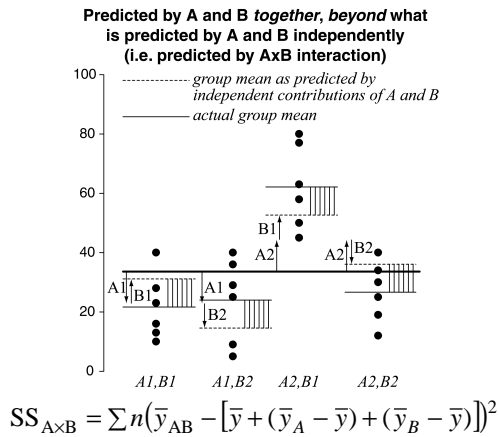
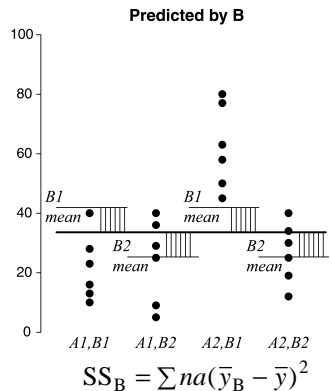
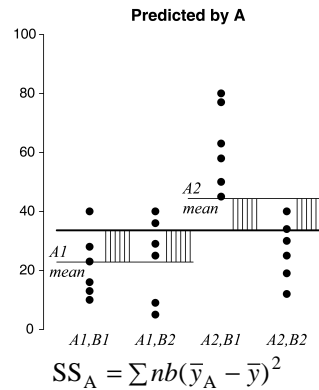
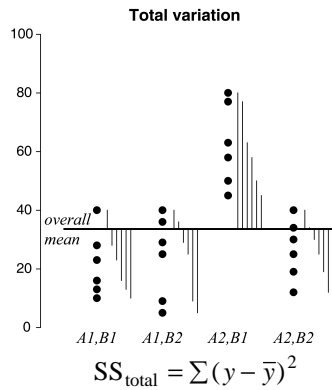


2.6.7 Pictorial representation



$$df_{total} = N - 1 = abn - 1$$

$$df_A = a - 1$$

$$df_B = b - 1$$

$$df_{A \times B} = df_A \times df_B = (a - 1)(b - 1)$$

$$df_{error} = df_{total} - df_A - df_B - df_{A \times B}$$

This illustrates a different, '2 x 2' factorial ANOVA (two factors: the first factor has 2 levels and the second factor also has 2 levels). There are  $N = 24$  observations ( $n = 6$  per group) and A and B both have 2 levels, so  $df_{total} = 23$ ,  $df_A = df_B = df_{A \times B} = 1$ , and  $df_{error} = 20$ .