## OPTIONS FOR NOMINALLY SCALED DEPENDENT VARIABLES:

Multiple regression: regress 0-1 dichotomous variable on independent variables

Advantage: Simplicity

Disadvantages:

Predicted  $X_1$  outside the range Heteroscedasticity Only applicable to dichotomous nominal scales

Discriminant analysis: ANOVA in reverse

Advantages:

Still linear model
Can easily accommodate polytomous scales

Disadvantages:

Assumption of continuous predictors
Assumption of homoscedastic errors
Assumption of multivariate normality within categories
Assumption of equal predictor covariances across categories

Logistic regression:

Advantages:

Can handle polytomous dependent variables Yields predicted  $X_1$  in terms of probabilities Can accommodate both continuous and categorical independent variables

Disadvantages

Extremely complex interpretation of nonlinear coefficients Coefficients not structural parameters in any linear model