

**VISUALIZING SIMPLE LOGISTIC REGRESSION MODELS USING  
MOSAIC PLOTS**

by

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Aug 30, 2006

**ABSTRACT**

For categorical data, the relationship between visual displays of the data and models is not very well explored, even though for categorical data and loglinear models strong relationships do exist. Starting from assessing odds ratios visually, interaction effects of variables can be examined using mosaic plots. Cumulative link models provide a way to describe trends between ordinal variables. In order to link the theory tightly to the displays cumulative odds ratios are used. Examples from real data sets highlight the usability and applicability of this approach throughout the paper.