

Assignment 3

GCM 2010

Instructions. Answer the following, and be prepared to present and discuss your answers in class. This assignment is due March 1.

Singer and Willett, in their Section 6.1.2, fit a wide range of models to their wage data. The results of the fitting procedures are shown in their Tables 6.2–6.3.

For each of the models A – J, do the following:

1. Present the level-1, level-2, and composite models in standard notation.
2. Fit the model, using R and `lmer`, using full ML estimation by including the `REML = FALSE` specification.
3. If a deviance-based model comparison between one or more models is shown in the right-most column of the table for that model, reproduce the result using the `anova` command.