

Group Project Data Analysis Plan -

Due Tues, 4/3 (5 points)

Each group must submit a data analysis plan and review it with the instructor.

I. Hypotheses:

Provide a complete description of the hypotheses of your study.

- IV(s) & DV(s) and how they are operationalized.

(Note for self report measures be sure to include a complete description of the scales/subscales that are being used)

- Description of the predicted relationship between each IV and DV and a rationale for the prediction.

II. Data Analysis Plan

A. Preliminary Analyses

1. Scale Computation - for all multi-item measures (e.g., self-report measures and summed/averaged scores), outline the manner in which scales will be computed. For each scale indicate the following.

- The item number that are included in the scale
- Items that will be reversed (and reversal coded [e.g. 8-score]).
- How scale score will be formed (Summed vs. Averaged).
- Reliability Analyses to be conducted (i.e., Cronbach's Alpha).
 - you only need these if all the summed/averaged items reflect a single dimension.

2. Descriptive Analyses

- All variables for which Descriptive Analyses (means, sums, standard deviations, variance, range, min, max, skewness, & Kurtosis) will be run: essentially all the Continuous Variables (Scores).
- All variables for which Frequency Analyses will be run: essentially all the Discrete Variables (Groups).

3. Demographic Analyses (Content Analysis Groups won't have these)

- Compare all the main variables (IVs and DVs) with the Demographic Variables (treat the demographics as the IVs for each analysis).
- Focus on Sex, Age, and GPA - the other variables (ethnicity, class rank) tend to have too few members in many of the groups (e.g. ethnicity - too few non-whites) to conduct proper analyses.
- For each analysis (e.g. Sex & IV1) report the following:
 - Type of variable (Discrete/Group vs. Continuous/Score) each variable represents.
 - Type of Analysis that will be used (e.g., Chi-Square, *t*-test, ANOVA, correlation, etc.).

4. Main Analysis

- List the analyses that will be conducted to test the hypotheses proposed in Part I above.
- For each analysis:
 - Indicate the type of variables (Discrete/Group vs. Continuous/Score) involved.
 - Indicate the type of Analysis that will be used: E.g. Pearson's correlation, *t*-test, ANOVA, Repeated Measures ANOVA, Factorial ANOVA, Mixed Design Factorial ANOVA.
 - Note for the ANOVAs (one-way and factorial) be sure to indicate the types of Planned Comparison or Post Hoc tests that will be used, where appropriate (e.g. three or more groups in a given variable).