

Assignment 7: La France & Hecht SPSS

Due: Friday, October 31st at midnight.

READING

→ LaFrance & Hecht summary: http://onlinestatbook.com/case_studies_rvls/smiles/index.html

SPSS

- 1) Open the Excel file labeled LaFrance&Hecht (1995) in SPSS.
 - Open SPSS → File → Open → Data

- 2) Use VARIABLE VIEW to check the status of the variables: TYPE and MEASURE
 - SmileTypeNumber**: TYPE = numeric; MEASURE = scale
 - Leniency**: TYPE= numeric; MEASURE = scale
 - SmileType**: TYPE = string; MEASURE = nominal
 - Note: The labels for **SmileType** are weird: the “false smiles” are labeled with 0

- 3) Click DATA →SELECT CASES
 - Click “If condition is satisfied”
 - Click “IF...”
 - Double click **SmileTypeNumber**, or use arrow to move **SmileTypeNumber** into box.
 - Enter **SmileTypeNumber=0**
 - Click CONTINUE → Click OK

- 4) Look at the data file
 - All the entries except those for **SmileTypeNumber** of 0 will be crossed out
 - Only the **SmileTypeNumber** 0's have been selected

- 5) Click ANALYZE → Click DESCRIPTIVE STATISTICS → Click DESCRIPTIVES
 - Move **Leniency** over to the box on the right (via arrow or double-click)
 - Click OPTIONS
 - Check: MEAN; STD. DEVIATION; VARIANCE; S.E. MEAN
 - Click OK

- 6) Go back to Steps 3-5, and repeat for each category of **SmileTypeNumber**
 - SmileTypeNumber=1**
 - SmileTypeNumber=2**
 - SmileTypeNumber=3**

Note: You should end up with 4 Descriptive Statistics Tables before moving onto the next step.
-One table for each category (false=0, felt=1, miserable=2, neutral=3)

7) Click DATA → Click SELECT CASES → Click ALL CASES → Click OK

8) Click GRAPHS → LEGACY DIALOGS → LINE

→Click SIMPLE, and click SUMMARIES FOR GROUPS OF CASES
→Click DEFINE

→Click “OTHER STATISTIC (e.g., mean)”

→Move **Leniency** into the VARIABLE box.

→Move **SmileType** (string variable) into the CATEGORY AXIS box.

→Click OPTIONS

→Check DISPLAY ERROR BARS

→Click CONFIDENCE INTERVALS

→ Fill in LEVEL (%): 95.0

→ Click CONTINUE → Click OK.

***Note:** This should give you a graph with all 4 group means and error bars that represent the 95% confidence interval for each group.*

9) Click DATA → Click SELECT CASES → Click ALL CASES → Click OK

10) Click GRAPHS → Click LEGACY DIALOGS → Click LINE

→Click SIMPLE → Click SUMMARIES FOR GROUPS OF CASES
→Click DEFINE

-Click OTHER STATISTIC (E.G., MEAN)”

→Move **Leniency** into the VARIABLE box.

→Move **SmileType** (string variable) into the CATEGORY AXIS box.

→Click OPTIONS

→Check DISPLAY ERROR BARS

→Click STANDARD ERROR

→ Fill in MULTIPLIER: 1.0

→ Click CONTINUE, then click OK.

***Note:** This step should give you a line graph with all 4 group means and error bars that represent the SEM. Most of the graphs you see in journal articles will display +/- 1 SEM. Only rarely will a graph display the 95% confidence interval.*

- 11) Click GRAPHS → Click LEGACY DIALOGS → Click BAR
→Click SIMPLE → Click SUMMARIES FOR GROUPS OF CASES
→Click DEFINE
- Click OTHER STATISTIC (E.G., MEAN)”
→ Move **Leniency** into the VARIABLE box.
→ Move **SmileType** (string variable) into the CATEGORY AXIS box.
- Click OPTIONS
→Check DISPLAY ERROR BARS
→Click STANDARD ERROR
→ Fill in MULTIPLIER: 1.0
→ Click CONTINUE, then click OK.

- 12) Look at the output
- Click FILE → Click EXPORT → Click OK
 - Open .doc file and review SPSS Output
 - Delete any extra output so only the following is present:
 - (A) 4 Descriptive Statistics Tables
 - (B) Line Graphs
 - i) Confidence Intervals: 95%
 - ii) Standard Error of the Mean: Multiplier 1.0
 - (C) Bar Graph
 - i) Standard Error of the Mean: Multiplier 1.0
 - Upload the .doc to Canvas

Note: *Do not blindly upload all SPSS output. This will indicate that you do not know what you are looking at, and you will not receive full credit for the assignment.*

ASSIGNMENT 7 IS DUE ON OCTOBER 31ST AT MIDNIGHT.