

## Graphing an Interaction in SPSS version 15: BAR GRAPH

There is a good chance that sometime during your career you will be asked to graph an interaction. Briefly defined, an interaction is when the effect of one independent variable on the dependent variable depends on the different levels of one or more other independent variables. We will practice graphing an interaction from a 2 x 2 between-subjects factorial design.

Step 1. Click on **Graphs**, then **Legacy Dialogs** and select **Bar**.

Step 2. In the **Bar Charts** menu, click on **Clustered** and then make sure **Summaries for groups of cases** is selected (this is the default option). Then click "Define."

Step 3. In the **Define Cluster Bar** menu, first select **Other statistic (e.g., mean)** that enables you to plot the means of your groups, and then select your dependent variable measure (e.g., "guilty") and move it into the **Variable** field. The default will be to compute the mean for that variable.

Step 4. Now move the one of the independent variables (e.g., "sex") into the **Category Axis** field. Then, move the other independent variable (e.g., "cond") into the **Define Clusters by** field. The category axis variable will be the variable that appears along the horizontal axis. The define clusters by variable will represent the other IV that has a legend.



**Note:** This figure is constructed as a bar graph because the variable in the categorical axis is a discrete variable; this is how I was trained. If that variable was continuous, then creating a line graph would be more appropriate. Others may feel that a line graph is always more desirable, while others have no preference, so check with your professor or colleagues.

# How To Use Spss Version 15

**J Elliott**



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## **Table of Contents How To Use Spss Version 15**

1. Understanding the eBook How To Use Spss Version 15
  - The Rise of Digital Reading How To Use Spss Version 15
  - Advantages of eBooks Over Traditional Books
2. Identifying How To Use Spss Version 15
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an How To Use Spss Version 15
  - User-Friendly Interface
4. Exploring eBook Recommendations from How To Use Spss Version 15
  - Personalized Recommendations
  - How To Use Spss Version 15 User Reviews and Ratings
  - How To Use Spss Version 15 and Bestseller Lists
5. Accessing How To Use Spss Version 15 Free and Paid eBooks
  - How To Use Spss Version 15 Public Domain eBooks
  - How To Use Spss Version 15 eBook Subscription Services
  - How To Use Spss Version 15 Budget-Friendly Options
6. Navigating How To Use Spss Version 15 eBook Formats

- ePub, PDF, MOBI, and More
- How To Use Spss Version 15 Compatibility with Devices
- How To Use Spss Version 15 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of How To Use Spss Version 15
  - Highlighting and Note-Taking How To Use Spss Version 15
  - Interactive Elements How To Use Spss Version 15
- 8. Staying Engaged with How To Use Spss Version 15
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers How To Use Spss Version 15
- 9. Balancing eBooks and Physical Books How To Use Spss Version 15
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection How To Use Spss Version 15
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine How To Use Spss Version 15
  - Setting Reading Goals How To Use Spss Version 15
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of How To Use Spss Version 15
  - Fact-Checking eBook Content of How To Use Spss Version 15
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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