10 Things to Know about JMP (+1)

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1. Opening JMP and Getting Started

Click on the JMP14 icon on your Desktop or Mac Dock



Mac users: If you do not see a JMP Icon, go to Finder>Applications>JMP Pro 14

JMP will open one of these windows, depending on your computer:

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Recent Files I to the set of the	× III II	Window List	∀ • ≉ ×
Recent Help	×		
Sensible Data Begarness Liutopi Basc, Andrags Seasch, The Help Statistics, Index Options for Categorical Variables The Datibution Report International Report The Datibution Report The Datibution Report The Parks Prot Begart Control for Control Report The Parks Prot Begart	-	Projects	9 🕭 🖬 🗙

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JMP Home Window

JMP Starter Window

2. JMP Data Tables

- a. Open the NHANES JMP data file save it to a permanent folder on your laptop where you can find it. (File > Save As). Then use File>Exit JMP or <Ctrl>q to quit JMP.
- b. Now, let's reopen JMP and the data table: **File>Open data table** and navigate to the folder where you saved the data file. (Or, you can click on the filename to open it.)
- c. The data table window is divided into 4 panels:

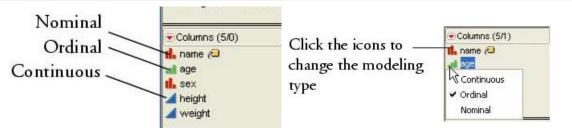
ame <	123 🔁 🚰 📕 🖇 🕰 🌐 🔗 🖕 🥵 陀 🏙 📾 📾 🖏 🇮 🖬 📾 🕮 🗠 🖕						
	NHANES Data		Respondent				
Tables	Description National Health		sequence number	Gender	age	Race/Ethnicity	Education Level - Adults 20+
panel	Oral Health questionnaire ht	1		Female		Other	High school grad/GED
	Depression http://www.cdc.	2	41477			Non-hispanic Caucasian	High school grad/GED
	Columns (15/0)	3	41479			Mexican-American	<9th grade
	Respondent sequence	4	41481	Male	21	Non-hispanic black	High school grad/GED
	Gender *	5	41482	Male	64	Mexican-American	9-11th grade (No HS diploma)
Columns	age	6	41483	Male	66	Non-hispanic black	Some college
panel	Race/Ethnicity *	7	41485	Female	30	Other Hispanic	9-11th grade (No HS diploma)
	Education Level - Adul	8	41486	Female	61	Mexican-American	<9th grade
	Current self-reported I	9	41487	Male	27	Other	College graduate
	Current self-reported v	10	41489	Female	40	Mexican-American	High school grad/GED
		11	41490	Female	66	Non-hispanic black	Some college
	Rows	12	41492	Male	72	Non-hispanic Caucasian	<9th grade
	All rows 5,649 OWS Selected 0	13	41493	Female	77	Non-hispanic Caucasian	9-11th grade (No HS diploma)
Rows		14	41494	Male	40	Mexican-American	High school grad/GED
panel	Excluded 0	15	41495	Male	61	Non-hispanic Caucasian	College graduate
	Hidden 0	16	41496	Female	64	Mexican-American	<9th grade
	Labelled 0	17	41498	Male	68	Non-hispanic black	<9th grade
			4				

3. JMP Interface

- a. **Red triangles:** Click **•** to reveal menu that shows relevant commands
- b. Disclosure Buttons: D 🖾 Click to open or close sections of a report

Hint: The best way to learn JMP is to click on the red triangles wherever you see them and try things!

4. Modeling type (continuous, ordinal, nominal)



To <u>change modeling type</u>: Right-click¹ on icon & choose modeling type from menu.

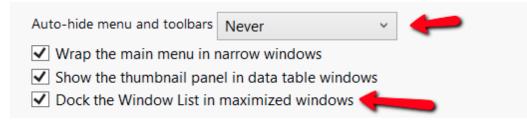
♦ Hint: To change multiple modeling types simultaneously, use the Shift and Control buttons to highlight the columns you want to change.

- Exercise: Change the modeling type for AGE to Nominal. Change it back to Continuous. Why is the modeling type for AGE set to Continuous rather than Nominal or Ordinal?
- 5. Customizing JMP: set a preference to never hide menus (does not apply to Macs)

Why? So the toolbar is always visible in analysis platforms.

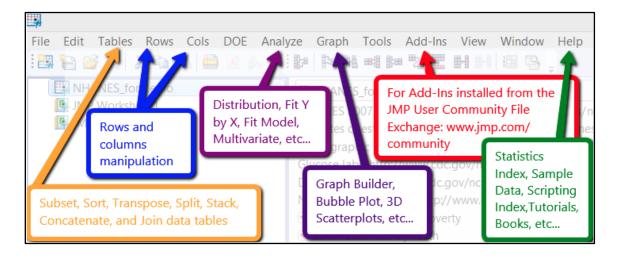


File > Preferences > Windows Specific > Auto-Hide Menu and Toolbars > Select "Never"

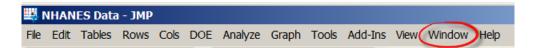


¹ Mac users: Hold down the control key and click.

6. Menu Navigation



- View>Home: Access recent files, open, close, arrange or hide active JMP windows
- Show menu options with explanations
 - View>JMP Starter (PC)
 - Windows>JMP Starter (Mac)
- Window menu: See a list of open windows, including ones that are hidden



7. Analyze>Distribution

Use **Analyze>Distributions** for histograms, means, bar charts, frequency tables, and other univariate graphics and statistics. A column's modeling type determines the type of analysis.

elect Columns	Cast Selected Columns into Roles	Action
40 Columns A Ratio of family income to poverty Body measurements (by examination) (4/1) Weight (kg) Standing Height (cm) Body Mass Index (kg/m**2) Waist Circumference (cm) Body measurements (self reported) (3/0) Current self-reported height (inches) Current self-reported weight (pounds) BMI (self-reported measurements) Health insurance coverage? Seneral Health Condition Pregnancy status Oral health (3/0) Overall recommendation for dental care Past yr need dental but couldn't get it Reason did not go to dentist Lab tests (2/0) Histograms Only	Y, Columns General H Conditi Jonal Weigt optional numeric optional numeric By optional	

> Exercises: Explore, Customize, Interpret, Get Help

Explore	Use Analyze>Distributions to look at distributions of WAIST CIRCUMFERENCE and GENERAL HEALTH CONDITION.
Customize	<i>Rotate histograms</i> to be vertical: To be vertical:
Interpret	What are the differences between the reports for WAIST CIRCUMFERENCE and GENERAL HEALTH CONDITION? Why are they different?
Customize	Use GENERAL HEALTH CONDITION >Histogram Options>Show percents to add annotations.
Customize	Resize a graph by pulling its corner. Place the cursor on the corner until a double arrow appears and pull.
Get Help	Select the ? tool from the toolbar and drop it on the WAIST CIRCUMFERENCE graphic for Help in context .
Get Help	In the WAIST CIRCUMFERENCE Summary Statistics section, rub your cursor over the "Std Dev" for Hover Help.
Explore	<i>Click on the</i> GENERAL HEALTH CONDITION <i>=BAD bar in the bar chart. Observe</i> WAIST CIRCUMFERENCE.
Customize	Choose Rows>Clear row states to remove highlighting from the graphics.

8. Copy your results to Word, PowerPoint, etc.



- Toolbar>Use the **Selection** tool th to highlight some or all the results (or use Tools Menu)
- *Right-click>***Copy**².
- In Word, Edit>Paste.

Arrow tool.

- 9. Save your work in your JMP data table (so you can rerun your procedures)
 - Use red triangle menu: Distributions>Script>Save script to Data Table.
 - The script is saved in the Tables panel.
 - *Reopen the saved script by clicking on the green triangle menu.*

VHANES 2014						
No	Notes					
▶	Source					
b	Distribution of Age in years					
	Run Script	1				
	Edit					
	Delete	1				
	Сору	(
	Debug Script Paste					

10. Help!

- 1. The Help menu (Books, Statistics index, Tutorials, Tip of the day, etc.)
- 2. The **?** tool from the **Tools** menu (pick up and drop for help in context)
- 3. Click on red triangles 💌 and explore menus
- 4. Hover help: rub cursor over a statistic in results for an explanation
- 5. Right click on results, rows, and column names for menu options
- 6. JMP website: <u>http://www.jmp.com/support/</u>

11. Transfer data to JMP from Excel (Use A or B)

- A. Copying and Pasting data from Excel into JMP:
 - 1. In Excel, copy the cells you'd like to import, including column names (one row).
 - 2. In JMP, click on **File > New > Data Table** or select New Data Table from the JMP Starter.
 - 3. Select Edit > Paste or Edit > Paste with Column Names to paste the data into the new data table. Selecting the latter will allow you to paste column names from your Excel file
- B. Import Excel data into JMP
 - 4. Select File > Open.
 - 5. Navigate to the directory where your files are stored. Select the Excel file to import.
 - 6. Click Open, or use the Excel Wizard to easily customize the import.

² Keyboard shortcut: Windows **CTRL + C**, Mac **#+ C**