

Q Cheat Sheet – Standard Training

What to do when you cannot	Right-click on whatever it is you are trying to a	change
figure out how to use Q	Get help about the screen you are on	Help ▶ Help
	Get help interpreting a table	Help ▶ Interpret This Table
	Read a short manual	Help ▶ Q Quick Start Guide
	Read the wiki	Help ▶ Q Reference Manual
	Search the wiki	Help ▶ Online Documentation Search
	Do some training modules	Help ▶ Online Training
	Contact support	support@g-researchsoftware.com
What to do when the data	Contact the person that set up the project (if y	you did not do it yourself)
looks wrong	Check the base	base n = 0; total n = 13; 13 missing; 88% filtered out;
	Check n and base n	Statistics - Cells ▶ n or Base n
	Check statistical testing	Show significance: Compare columns
	Check that the Question Type setting makes sense on the Variables and Questions tab	Either go to the Variables and Questions tab and find the data, or, press to the right of the relevant dropdown menu
	Check that the Filter is correct	E.g., Filter: Q8. One or more message not recalled
	Check that the Weight is appropriate	E.g., Weight: None
	Check that the correct rules are on and, try and remove the rules	If a Rule has been applied, a pink Rules tab will appear at the bottom of the table. Control when applied using the Apply dropdowns.
	Hide or unhide variables	On the Variables and Questions tab, press H
	Check to see if blank rows/columns are hidden	Check to see if is depressed (this hides empty rows and columns
	Review the Value Attributes	Right-click on a row or column heading and select Values
	Review how a variable has been constructed	So to the Variables and Questions tab Find the variable Right-click: Edit Variable
	Contact support	File ▶ Send Pack ▶ To Support and indicate which table and which cells in the table look wrong and why
Data files and file management	Start a new project	 File ► Import New Data File (New Project) Either click Yes to all questions, or, use a special-purpose QScript for cleaning Tools ► QScripts ► Online Library ►
When you analyze data in Q you are always using two files:		Preliminary Project Setup scripts
 Project file (.Q): this contains 	Starting using a QPack	 Double-click on the QPack or File ▶ Open Existing Project File ▶ Save Project Read any messages carefully (as you may destroy work)
all the work you have done in Q.	Opening a project	File ▶ Open Existing Project or Recent Projects
Data file (e.g., . sav): this	Share projects	File ▶ Send Pack This sends the project and data files.
contains your survey data; Q	Update project with new data	File ► Import Updated Data File (Current Project)
does change the raw data.	Merge different projects	Open two copies of Q and drag and drop tables and variables from on project to another
	Merge data files	Tools ▶ Merge Data Files
	Stack data	Tools ▶ Stack SPSS Data File
	Panel data (e.g., occasion-based data)	 Stack the data (if necessary) File ► Add Data to Project File ► Edit Data File Relationships
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Weights and filters	Applying filters and weights	Filter: France 🛛 V AND Total sample V Meight: None V
Weights and filters can be applied to the entire project or to selected	Allowing variables to be selectable as weights and filters	On the Variables and Questions tab, press F
tables and plots.	Creating simple filters	Automate ▶ Online Library ▶ Create New Variables ▶ Create Filters from Selected Questions
	Creating filters from a table	Create a table, select the relevant cells and press 🍸
	Creating complicated filters	Find filters created from a table on the Variables and Questions tab (V&Q), right-click: Edit variable

Tables and plots	View additional statistics	Right-click: Statistics - Cells/Right/Below ▶
Note that the one of the main ways of modifying a table is to change the data in the table, and when this is	Save a copy of a table	₽
	Sure a copy of a tube	
	Changing the data	Country SUMMARY Y
	Create plots in Q	Select from Show Data As (top middle of the screen)
	Customizing the look and feel of tables	File ▶ Project Options and Table Styles
done all other tables using the same	Lock a table so the data cannot be changed	Right-click on table(s) in the Report and select Lock
data will also change (see	Create folders	Right-click on a table in the Report and Add group
Manipulating Data)	Create lots of tables	Automate ▶ Online Library ▶ Create Tables – Banner Tables (this also automatically creates banners and flattens data – see Manipulating Data)
	Simultaneously change lots of tables/plots	Select them all at the same time and then modify as normal (e.g., apply filters, right-click and Statistics – Cells
	Exporting	X P W
		D
lewing raw data	Seeing the raw data for a question	Brown dropdown menu: SUMMARY
	Seeing raw data for lots of variables in Excel	 Select the variables in the Variables and Questions tab Right-click: Export variables to Excel In Excel: VIEW ➤ Freeze Panes ➤ Freeze Top Row In Excel: DATA ➤ Filter
	Seeing all the raw data in Q	All the raw data is viewable on the Data tab. You can sort columns, show filters and re-order the columns (this is done on the Variable and Questions tab).
	Merging	Drag and drop or right-click: Merge
Manipulating data	Creating NETs	Right-click: Create NET
here are lots of tools for	Reproducing merging and creating NETs on other similar questions	Automate ► Online Library ► Modifying Rows and Columns - Use a Question as a Template for Modifying Other Questions
nanipulating data. These are only ome of the more commonly-used pasic tools.	Re-ordering categories/sorting	 Drag and drop Right-click: Sort By Automate ➤ Online Library and search for sort
	Removing a category and rebasing	 Right-click: Remove (only for mutually exclusive options) Filtering
	Removing a category without rebasing	Right-click: Hide
	Switch between % and averages as main statistics on a table	V&Q: Change Question Type from Pick One / Pick One – Multi to/from Number / Number - Multi
	Creating a 2 nd version of a question	Right-click on table row/column heading: Duplicate Question
	Creating a question from a variable	 Go to the Variables and Questions tab Select the applicable variable Right-click: Copy and Paste Variable(s) ► Exact copy
	Comparing two questions (e.g., pre and post)	 Go to the Variables and Questions tab Select the questions Right-click: Copy and Paste Variable(s) ► Exact copy Select the newly-created copies Right-click: Set Question Choose an appropriate Question Type Pick One – Multi if combining two categorical questions Number if combing two numeric variables Number – Grid if combing sets of numeric variables Pick Any – Grid if comparing multiple response questions
	Banding numeric variables	 See Creating a 2nd version of a question See Switch between % and averages as main statistics on a table
	Recoding (changing Value Attributes)	Right-click on table row/column heading, select Values and change the numbers in the Value column
	Flatten (i.e., change a grid to a single column)	Automate ▶ Online Library ▶ Modifying Rows and Columns - Flatten
	Create a banner	 Create a new table Create ➤ Banner and then select the banner in the brown drop-down menu
	Nest one variable within the variables in a Pick One – Multi (i.e., grid)	Automate ➤ Online Library ➤ Create New Variables - Filter One Question by Another Question, or Stack the data: Tools > Stack SPSS .sav data file
	Create a numeric variable	On the Variables and Questions tab, right-click: Insert Variable(s) ▶ JavaScript Formula ▶ Numeric

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Example if statement: == means "equals", || means "or", and && means "and:
if ((age <= 39 || fit == 1) && gender == 1) 1; else 2;</pre>
Shorthand if statement
age > 39 ? 1 : 2;
Multi-line expression
var respondent age = d1;
var respondent_gender = d2;
var age_by_gender = respondent_age + 100 * respondent_gender;
age_by_gender;
                                          1. Create a numeric variable
Create a categorical variable
                                          2. Change the Question Type to Pick One
                                          1. Right-click: Copy and Paste Variable(s) ▶ Exact copy
Recoding into a different variable
                                          2. Modify the variable as per your needs
                                          V&Q: Insert Ready-Made Formula(s) ▶ Mathematical
Standard mathematical functions
                                          Functions (by Case)
                                          If binary, follow the steps for creating filters Weights and Filters
Creating a binary variable
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Automation	Setting default chart types for Office	 Create Chart Templates using Excel, Word or PowerPoint Edit ► User Options ► Export Chart Defaults
	Automatically creating variants of a derived variable	V&Q: Insert Ready-Made Formula(s) > Use as Template for Replication
	Creating a custom QScript	1.Find a similar QScript in Automate > Online Library 2.Press More Information at the bottom of the description 3.Copy the code in the box 4.Open a text editor, paste, and modify as per your needs 5.Save with a file extension of .QScript 6.Automate ▶ Run QScript (Macro) from file
	Creating a custom Rule	1.Find a similar Rule in Automate ▶ Online Library 2.Press More Information at the bottom of the description 3.Copy the code in the box 4.Automate ▶ Custom Rule ▶ Edit JavaScript 5.Paste the code and modify as per your needs 6.Press Close, Yes and OK
	Automatic dashboard updating	web-q.com/API

Exporting and formatting tables	Export to PDF	File ► Export to PDF
Any chart templates that you create in Excel,	Create online report	File ▶ Share as Dashboard
PowerPoint and Word, are available in the Format dropdown that appears when exporting.	Export to Excel, PowerPoint and Word	X P W
	Automatically update Office exports	X P W
	Exporting variables to Excel	Select the variables on the Variables and Questions tab, right-click and select Export Variables to Excel

	Automatic dashboard updating	web-q.com/API
	Creating a custom Rule	7.Find a similar Rule in Automate ▶ Online Library 8.Press More Information at the bottom of the description 9.Copy the code in the box 10. Automate ▶ Custom Rule ▶ Edit JavaScript 11. Paste the code and modify as per your needs 12. Press Close, Yes and OK
	Creating a custom QScript	7.Find a similar QScript in Automate > Online Library 8.Press More Information at the bottom of the description 9.Copy the code in the box 10. Open a text editor, paste, and modify as per your needs 11. Save with a file extension of .QScript 12. Automate ▶ Run QScript (Macro) from file
	Automatically creating variants of a derived variable	V&Q: Insert Ready-Made Formula(s) > Use as Template for Replication
Automation	Setting default chart types for Office	 Create Chart Templates using Excel, Word or PowerPoint Edit ► User Options ► Export Chart Defaults

Factor analysis / Principal Components Analysis	Standard Principal Components Analysis (PCA)	 Create a single Number - Multi question with all the variables that you wish to include Create ► Traditional Multivariate Analysis ► Principal Components Analysis Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created.
	Non-linear Principal Components Analysis	Create ▶ Map ▶ Type of Analysis ▶ Use the questions selected below (multiple correspondence analysis)
	Saving factors from non-linear PCA	Choose Save factors on the dialog box

Correlation, Regression and	Correlation	Select Number or Number – Multi questions in the Blue or Brown dropdowns
Driver Analysis	Linear regression	 Ensure that the Dependent Variable has a Question Type of Number If you are planning to use stepwise regression, ensure that variables that you wish grouped together are in the same question, and variables that you want treated separtely are in separate questions Ensure that any numeric independent variables are Number or Number – Multi and any that you wish to treat as categorical are a categorical Question Type Create ► Traditional Multivariate Analysis ► Regression
	Binary logit	Same as linear regression, except with a Pick One dependent variable with two categories
	Ordered logit	Same as linear regression, except with a Pick One dependent variable that has Variable Type of Ordered Categorical
	Multinomial Logistic	Same as linear regression, except with a Pick One dependent variable that has Variable Type of Categorical
	MNL, Rank-Ordered Logit, Latent Class Logit, Random Parameters Logit	 Setup the regression as an Experiment (i.e., this is what is done when you setup a Max-Diff or Choice Modeling experiment) Create ➤ Segments ➤ Advanced
	Automating large numbers of regressions	Setup the regression as an Experiment (i.e., this is what is done when you setup a Max-Diff or Choice Modeling experiment), and then create tables, each which will contain regressions
	Shapley regression, Kruskal Driver Analysis, etc.	Automate ▶ Online Library and search for Driver
Brand association analysis		Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid
Brand association analysis	Brand Maps	 question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis 3. Choose your preferred Plotting option
	Driver analysis	Stack the data Use one of the methods described above for Regression
	Residual analysis	 Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) Statistics – Cells ▶ z-Statistics, which shows normalized residuals (i.e., a score of more than 1.96 is significantly high at the 0.05 level, ignoring multiple comparison issues)
		Create appropriate derived variables (see the earlier section). E.g.,
Segmentation	Preparing the data	Show rating scales as Top 2 Boxes (i.e., Pick Any) Show rating scales Number – Multi Show rating scales as Ranking Automate > Online Library > Segmentation – Standardize Data by Case Principal Components Analysis
	Create the segments	 Create ➤ Segments Select the desired questions in Questions to Analyze Ensure that Form segments by is set to splitting by individuals (latent class analysis, cluster analysis, mixture models) Press Advanced and you have additional options. Note that the defaults in segmentation are generally pretty useful, but if you modify advanced options you can quite easily create invalid analyses. Re-Run the analysis with: Different input variables Different Question Types for the input variables Different number of segments (Create ➤ Segments ➤ Number of segments per split ➤ Manual
	Profiling the segments	Create > Smart Tables
Max-Diff and Choice Modeling Please note that Q does not currently create experimental designs, but plan to launch this capability in 2015	Importing the experimental design into a project	Automate ▶ Online Library ▶ Max-Diff Setup from an Experimental Design, or, Automate ▶ Online Library ▶ Choice Modeling
	Viewing statistics	 Right-click and select Statistics – Cells Select all the cells on the table (except headings) and press α
	Segmentation	Create ► Segments and press OK (see Segmentation)
	Coefficients for each respondent	 Set the Case IDs in the Data tab Create segments, or, another mixture model (Create ➤ Segments ➤ Advanced) Right-click on a segment and select Save Individual-Level Parameter Means and Standard Deviations Select RAW DATA in the Brown dropdown menu
	Profiling the results	Create crosstabs with the <i>Question</i> created when the experimental design was imported (i.e., this is vastly superior to using the individual-level coefficients)



The way that Q presents data is determined by the underlying **Question Type** of the data. Question types are set automatically when importing data and can be modified in the **Variables and Questions** tab.

Ques	stion Type	Description	Example
a	Text	Each observation in the data file contains text.	What is your name?
a a	Text – Multi	Multiple related fields of text for each observation in the data file.	Please type in the names of your three favorite soft drinks 1 2 3
⊙	Pick One	A set of mutually exclusive and exhaustive categories (i.e., nominal or ordinal scales).	Are you • Male • Female
00 00	Pick One – Multi	A series of Pick One questions sharing the same scale points.	Please rate your satisfaction with the following banks Low Med High Westpac ANZ St George
2	Number	A numeric variable (i.e., <i>interval</i> or <i>ratio</i> scale).	How many glasses of wine did you drink last night?
2	Number – Multi	A series of numeric variables measured on the same scale.	Next to the brands below, please indicate how many times you have purchased them in the past week Coke Pepsi Fanta
•	Pick Any	What is usually referred to in market research as a multiple response or multi question. Respondents are asked to pick all that apply from a list of options.	Which of the following have you bought in the past week? ☐ Coke ☐ Pepsi ☐ Fanta
•	Pick Any - Compact	Same as Pick Any but stored in a more co	ompact format (see the <i>Q Reference Manual</i>).
	Pick Any – Grid	A set of binary variables that can be thought of as being ordered in two dimensions (e.g., a Pick Any question asked in a loop).	Which of these brands are cool? □ Coke □ Pepsi □ Fanta Which of these brands are young? □ Coke □ Pepsi □ Fanta Which of these brands are sexy? □ Coke □ Pepsi □ Fanta
2 2 2 2	Number – Grid	A question requiring numeric responses, where the variables can be thought of as being ordered in two dimensions (e.g., a Number – Multi question asked in a loop).	In the past month, how many <i>economy flights</i> did you take on Qantas United SAS and how many <i>business class flights</i> did you take on Qantas United SAS
0-0 35	Date	A question containing a date.	What is your date of birth? / / 19
123	Ranking	Multiple numeric variables that represent a ranking, where the highest number is most preferred and ties are permitted.	Rank the following brands according to how much you like them CokePepsi Fanta
X	Experiment	A Number, Number – Multi, Ranking, Pick One or Pick One – Multi question, where the alternatives presented were	Which of these would you buy? Coke Pepsi Fanta \$2.00 \$4.20 \$3.20
		varied using an experimental design.	Can Bottle Flask