

Q Cheat Sheets

What to do when you cannot figure out how to use Q	Right-click on whatever it is you are trying	g to change
0	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@q-researchsoftware.com
What to do when the data	Contact the person that set up the project	t (if 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 statistical testing	Edit Project/Table Options Statistical Assumptions
	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 applied 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 if empty rows/columns are 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	 Go 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 When you analyze data in Q	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 ▶
you are always using two files:	Starting using a QPack	Preliminary Project Setup scripts 1. Double-click on the QPack or File ▶ Open Existing Project 2. File ▶ Save Project
 Project file (.Q): this contains all the work you 		3. Read any messages carefully (as you may destroy work)
have done in Q.	Opening a project	File Depen Existing Project or Recent Projects
 Data file (e.g., . sav): this 	Share projects	File Send Pack This sends the project and data files
	Update project with new data	File Finport Updated Data File (Current Project)
contains your survey data:		
contains your survey data; Q does change the raw	Merge different projects	
	Merge different projects Merge data files	Open two copies of Q and drag and drop tables and variables from one project to another Tools ▶ Merge Data Files
Q does change the raw	5 , , , ,	to another
Q does change the raw	Merge data files	to another Tools ► Merge Data Files Tools ► Stack SPSS Data File 1. Stack the data (if necessary) 2. File ► Add Data to Project
Q does change the raw	Merge data files Stack data	to another Tools ► Merge Data Files Tools ► Stack SPSS Data File 1. Stack the data (if necessary)
Q does change the raw data. Weights and filters	Merge data files Stack data	to another Tools ► Merge Data Files Tools ► Stack SPSS Data File 1. Stack the data (if necessary) 2. File ► Add Data to Project
Q does change the raw data. Weights and filters Weights and filters can be	Merge data files Stack data Panel data (e.g., occasion-based data)	to another Tools ► Merge Data Files Tools ► Stack SPSS Data File 1. Stack the data (if necessary) 2. File ► Add Data to Project 3. File ► Edit Data File Relationships
Q does change the raw data. Weights and filters Weights and filters can be applied to the entire project or	Merge data files Stack data Panel data (e.g., occasion-based data) Applying filters and weights Creating a weight Allowing variables to be selectable as	to another Tools ► Merge Data Files Tools ► Stack SPSS Data File 1. Stack the data (if necessary) 2. File ► Add Data to Project 3. File ► Edit Data File Relationships Filter: France AND Total sample Weight: None V
Q does change the raw data. Weights and filters Weights and filters can be applied to the entire project or	Merge data files Stack data Panel data (e.g., occasion-based data) Applying filters and weights Creating a weight	to another Tools ► Merge Data Files Tools ► Stack SPSS Data File 1. Stack the data (if necessary) 2. File ► Add Data to Project 3. File ► Edit Data File Relationships Filter: France INF AND Total sample Weight None INF Create ► Variables and Questions ► Variable(s) ► Weight On the Variables and Questions tab, press F W
Q does change the raw	Merge data files Stack data Panel data (e.g., occasion-based data) Applying filters and weights Creating a weight Allowing variables to be selectable as weights and filters	Tools ► Merge Data Files Tools ► Stack SPSS Data File 1. Stack the data (if necessary) 2. File ► Add Data to Project 3. File ► Edit Data File Relationships Filter: France ♥♥ AND Total sample♥ ♥ Weight None ♥ Create ► Variables and Questions ► Variable(s) ► Weight On the Variables and Questions tab, press F ♥ Automate ► Online Library ► Create New Variables ► Create Filters from

Tables and plots	View additional statistics	Right-click: Statistics – Cells/Right/Below >
Note that the one of the main	Save a copy of a table	-
ways of modifying a table is to change the data in the table,	Changing the data	Country SUMMARY V
and when this is done all other	Create plots in Q	Select from Show Data As (top middle of the screen)
tables using the same data will also change (see Manipulating Data)	Customizing the look and feel of tables	File ▶ Project Options and Table Styles
	Lock a table so the data cannot be changed	Right-click on table(s) in the <i>Report</i> and select Lock
	Create folders	Right-click on a table in the Report and Add group
	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 Exporting	Select them all at the same time and then modify as normal (e.g., apply filters, right-click and Statistics – Cells
	Seeing the raw data for a question	Brown dropdown menu: RAW DATA
Viewing raw data		1. Select the variables in the Variables and Questions tab
	Seeing raw data for lots of variables in Excel	 2. Right-click: Export variables to Excel 3. In Excel: VIEW ▶ Freeze Panes ▶ Freeze Top Row 4. 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 filter and re-order the columns (this is done on the Variable and Questions tab)
Exporting	Export to PDF	File ► Export to PDF
Exporting	Create online report	File ► Share as Dashboard
Any chart templates that you create in Excel, PowerPoint	Export to Excel, PowerPoint and Word	
and Word, are available in the	Automatically update Office exports	
Format dropdown that appears when exporting.	Setting default chart types for Office	1. Create Chart Templates using Excel, Word or PowerPoint 2. Edit ▶ User Options ▶ Export Chart Defaults
appears men sapering.	Exporting variables to Excel	Select the variables on the Variables and Questions tab, right-click and select Export Variables to Excel
	Merging	Drag and drop or right-click: Merge
Manipulating data	Creating NETs	Right-click: Create NET
There are lots of tools for manipulating data. These are	Reproducing merging and creating	Automate ► Online Library ► Modifying Rows and Columns - Use a
only some of the more	NETs on other similar questions	Question as a Template for Modifying Other Questions
commonly-used basic 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: Create a NET and right-click on it: Create filter
	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	1. Go to the Variables and Questions tab 2. Select the applicable variable
	Comparing two questions (e.g., pre and post)	 Right-click: Copy and Paste Variable(s) ► Exact copy 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 – Multi if combing two numeric variables Number – 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

		2. Create Banner and then select the banner in the brown drop-down
	Nest one variable within the variables in a Pick One – Multi (i.e., grid)	 Menu Automate ► Online Library ► Create New Variables - Filter One Question by Another Question, or Stack the data: Tools ► Stack SPSS .sav File
	Create a numeric variable	On the Variables and Questions tab, right-click: Insert Variable(s)
	<pre>Example if statement: == means "equal if ((age <= 39 fit == 1)</pre>	JavaScript Formula ► Numeric s", means "or", and && means "and": && gender == 1) 1; else 2;
	Shorthand if statement age > 39 ? 1 : 2;	
	<pre>Multi-line expression var respondent_age = d1; var respondent_gender = d2; var age_by_gender = responde age by gender;</pre>	ent_age + 100 * respondent_gender;
	Create a categorical variable	1. See Create a numeric variable 2. Change the Question Type to Pick One
	Recoding into a different variable	 Right-click: Copy and Paste Variable(s) ► Exact copy Modify the variable as per your needs
	Standard mathematical functions	V&Q: Insert Ready-Made Formula(s) ► Mathematical Functions (by Case)
	Creating a binary variable	Follow the steps for creating filters Weights and Filters
Automation	Automatically creating variants of a derived variable	V&Q: Insert Ready-Made Formula(s) ► Use as Template for Replication
	Creating a custom QScript	 Find a similar QScript in Automate ► Online Library Press More Information at the bottom of the description Copy the code in the box Open a text editor, paste, and modify as per your needs Save with a file extension of .QScript Automate ► Run QScript (Macro) from file
	Creating a custom Rule	 Find a similar Rule in Automate ► Online Library Press More Information at the bottom of the description Copy the code in the box Automate ► Custom Rule ► Edit JavaScript Paste the code and modify as per your needs Press Close, Yes and OK
	Automatic dashboard updating	web-q.com/API
Factor analysis / Principa Components Analysis		4. Create a single Number, Multi guestion with all the variables that you wish to
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.
		 include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can
the second s	Analysis (PCA)	 include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below
the second s	Analysis (PCA) Non-linear Principal Components Analysis	include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below (multiple correspondence analysis) Choose Save factors on the dialog box 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis
Components Analysis	Analysis (PCA) Non-linear Principal Components Analysis Saving factors from non-linear PCA	include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below (multiple correspondence analysis) Choose Save factors on the dialog box 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis 3. Choose your preferred Plotting option 1. Stack the data
Components Analysis	Analysis (PCA) Non-linear Principal Components Analysis Saving factors from non-linear PCA Brand Maps	 include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below (multiple correspondence analysis) Choose Save factors on the dialog box 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis 3. Choose your preferred Plotting option
Components Analysis Brand association analysis Max-Diff and Choice	Analysis (PCA) Non-linear Principal Components Analysis Saving factors from non-linear PCA Brand Maps Driver analysis	 include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below (multiple correspondence analysis) Choose Save factors on the dialog box 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis 3. Choose your preferred Plotting option 1. Stack the data 2. Use one of the methods described below for Regression 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. 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
Components Analysis Brand association analysis	Analysis (PCA) Non-linear Principal Components Analysis Saving factors from non-linear PCA Brand Maps Driver analysis Residual analysis Importing the experimental design into	 include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below (multiple correspondence analysis) Choose Save factors on the dialog box 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis 3. Choose your preferred Plotting option 1. Stack the data 2. Use one of the methods described below for Regression 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. 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) Automate ► Online Library ► Max-Diff Setup from an Experimental Design, or, Automate ► Online Library ► Choice Modeling 1. Right-click and select Statistics - Cells
Components Analysis Brand association analysis Brand association analysis Max-Diff and Choice Modeling Please note that Q does not currently create experimental	Analysis (PCA) Non-linear Principal Components Analysis Saving factors from non-linear PCA Brand Maps Driver analysis Residual analysis Importing the experimental design into a project	 include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below (multiple correspondence analysis) Choose Save factors on the dialog box 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis 3. Choose your preferred Plotting option 1. Stack the data 2. Use one of the methods described below for Regression 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. 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)
Components Analysis Brand association analysis Max-Diff and Choice Modeling Please note that Q does not	Analysis (PCA) Non-linear Principal Components Analysis Saving factors from non-linear PCA Brand Maps Driver analysis Residual analysis Importing the experimental design into a project Viewing statistics	 include 2. Create ► Traditional Multivariate Analysis ► Principal Components Analysis 3. Re-run the analysis with different numbers of components (if desired). It can be useful to delete the components that are created. Create ► Map ► Type of Analysis ► Use the questions selected below (multiple correspondence analysis) Choose Save factors on the dialog box 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. Create ► Map ► Type of Analysis ► Use the current table: Correspondence Analysis 3. Choose your preferred Plotting option 1. Stack the data 2. Use one of the methods described below for Regression 1. Create a table of the data (e.g., a SUMMARY table of a Pick Any – Grid question) 2. 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) Automate ► Online Library ► Max-Diff Setup from an Experimental Design, or, Automate ► Online Library ► Choice Modeling 1. Right-click and select Statistics – Cells 2. Select all the cells on the table (except headings) and press α

Correlation, Regression	Correlation	Select Number or Number – Multi questions in the Blue and Brown dropdowns
and 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
Segmentation	Preparing the data	Create appropriate derived variables (see the earlier section). E.g., • 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

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Question Types

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	tion Type	Description	Example
a	Text	Each observation in the data file contains text.	What is your name?
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
0	Pick One	A set of mutually exclusive and exhaustive categories (i.e., <i>nominal</i> or <i>ordinal</i> scales).	Are you O Male O Female
00	Pick One – Multi	A series of Pick One questions sharing the same scale points.	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?
	Pick Any – Compact	Same as Pick Any but stored in a more cor	mpact 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
222	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 32	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 varied using an experimental design.	Which of these would you buy?CokePepsiFanta\$2.00\$4.20\$3.20CanBottleFlask