



SPSS Tip 10.2

Robust independent *t*-test

The first and last line of the syntax in **Robust independent t-test.sps** tell SPSS to begin and end communication with R, respectively. The three lines in between tell R what to do—these lines are R code, not SPSS syntax, and so do not end in full stops. The first loads the *WRS2* package that contains the function we want to use. The second grabs your data from the SPSS data editor and places it in a data frame called **mySPSSdata** (you can change this name if you like, but you don't need to). The final line runs the test using the function *yuenbt()*. Within this function we specify the data as being the data that we've just grabbed from SPSS, and we specify a formula for the test itself. This formula has the general form of *outcome-predictor*, in which *outcome* is the name of the outcome variable (from the data editor), and *predictor* is the name of the grouping variable. For these data the formula is **Mischief-Cloak** (which you could read as *predict mischief from cloak*). If you want to use this syntax on other data sets the only part of it that you need to edit is the formula by replacing **Mischief** and **Cloak** with the names of your variables.