

How to Use WBCORR
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WBCORR is a Mathematica package that requires Mathematica to run properly. WBCORR has been tested only on Mathematica 4.1, 4.2, and 5.0. The program is free, may be freely reproduced and distributed, and is distributed without any warranty of any kind.

Installation

- a. Create a directory on your hard drive, and copy all files into it. For example, "C:/WBCORR"
- b. Start Mathematica, and open the file "LoadWbCorr.nb"
- c. You will see two lines in the file

```
SetDirectory["c:/wbcorr"]  
<<wbcorr.m
```

Change the directory name in the first line to your wbcorr directory, and save the file. Now, execute both lines of the file. This will change your default directory to the wbcorr directory, and load the wbcorr package.

WBCORR is now ready to run.

There are 7 sample files with associated data files illustrating various kinds of analyses. The key command in WBCORR is

```
ComputeChiSquare[ ]
```

For information about this command and the options, use the Help operator. For example

?ComputeChiSquare

ComputeChiSquare[data,hypothesis,samplesize] computes an asymptotic chi-square test statistic for correlational pattern hypotheses. data is a list containing data to be analyzed, hypothesis is a hypothesis matrix constructed according to the method specified in Steiger (2004), and samplesize is a list of sample sizes. Options include DataType, EstimationMethod, PrintOutput, Diagnostics.

Read Steiger (2004) for details about the methods, and discussion of examples.

Reference

Steiger, J.H. (2004). Comparing correlations: Pattern hypothesis tests between and/or within independent samples. In A. Maydeu-Olivares (Ed.) *Psychometrics. A festschrift to Roderick P. McDonald*. Mahwah, NJ: Lawrence Erlbaum Associates, in press.