



Erratum to "Representing Error bars in within-subject designs in typical software packages"

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Abstract ■ An error was present in the Matlab code used to standardize the data matrix. Here the instruction is corrected.

Keywords ■ Error bars, within-subject designs; Matlab

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Introduction

The method proposed in O'Brien and Cousineau (2014) is based on two transformations of the data set \mathbf{X} . In the paper, an error was present in the Matlab instructions to perform the second transformation. Here we report the correct instruction.

Authors' notes and acknowledgments

The authors would like to thank Stéphane Dufau for

signaling the error and providing the corrected instruction.

References

O'Brien, F., & Cousineau, D. (2014). Representing Error bars in within-subject designs in typical software packages. *The Quantitative Methods for Psychology, 10*, 56-67

Appendix

The erroneous instruction was

```
Z = ( sqrt(J/(J-1)) .* ( Y' - repmat(mean(Y), size(Y,1),1) )' )'
```

The corrected instruction is:

```
Z = sqrt(J/(J-1)) .* ( Y' - repmat(mean(Y), size(Y,1),1) )' + repmat(mean(Y), size(Y,1),1)';
```

Also note that the .* operation is not necessary as well as the transpose. A simpler instruction is therefore:

```
Z = sqrt(J/(J-1)) * ( Y - repmat(mean(Y), size(Y,1), 1) ) + repmat(mean(Y), size(Y,1), 1);
```

Citation

O'Brien, F., & Cousineau, D. (2015). Erratum to "Representing Error bars in within-subject designs in typical software packages". *The Quantitative Methods for Psychology, 11* (2), 126-126.

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Received: 05/06/15