Untitled

Jeffrey A. Walker

3/27/2018

(Padilla-Gamiño et al. 2013; Vaux 2014; Amrhein, Korner-Nievergelt, and Roth 2017; Weissgerber et al. 2015; Fosang and Colbran 2015; Spitzer et al. 2014; Héroux 2016; Kardol et al. 2016; Krzywinski and Altman 2014; Rousselet, Foxe, and Bolam 2016; Salachan and Sørensen 2017; Weissgerber et al. 2016; Weissgerber et al. 2017; Munafò and Davey Smith 2018; Kaelin Jr 2017; Hullman, Resnick, and Adar 2015; McNamara 2016a; McNamara 2016b; Correll and Gleicher 2014; Crick et al. 2015; Schild and Voracek 2015; Schild and Voracek 2013; Johnson et al., n.d.; Gelman and Carlin 2014; Walker 2018; Harrell 2014; Walker 2017)

Amrhein, Valentin, Fränzi Korner-Nievergelt, and Tobias Roth. 2017. "The Earth Is Flat (P > 0.05): Significance Thresholds and the Crisis of Unreplicable Research." *PeerJ* 5 (July). doi:10.7717/peerj.3544.

Correll, Michael, and Michael Gleicher. 2014. "Error Bars Considered Harmful: Exploring Alternate Encodings for Mean and Error." *IEEE Transactions on Visualization and Computer Graphics* 20 (12): 2142–51. doi:10.1109/TVCG.2014.2346298.

Crick, Katelynn, Aireen Wingert, Katrina Williams, Ricardo M. Fernandes, Denise Thomson, and Lisa Hartling. 2015. "An Evaluation of Harvest Plots to Display Results of Meta-Analyses in Overviews of Reviews: A Cross-Sectional Study." *BMC Medical Research Methodology* 15 (October): 91. doi:10.1186/s12874-015-0084-0.

Fosang, Amanda J., and Roger J. Colbran. 2015. "Transparency Is the Key to Quality." *Journal of Biological Chemistry* 290 (50): 29692–4. doi:10.1074/jbc.E115.000002.

Gelman, Andrew, and John Carlin. 2014. "Beyond Power Calculations: Assessing Type S (Sign) and Type M (Magnitude) Errors." *Perspectives on Psychological Science* 9 (6): 641–51. doi:10.1177/1745691614551642.

Harrell, Frank E. 2014. "Principles of Graph Construction."

Héroux, Martin. 2016. "Inadequate Reporting of Statistical Results." *Journal of Neurophysiology* 116 (3): 1536–7. doi:10.1152/jn.00550.2016.

Hullman, Jessica, Paul Resnick, and Eytan Adar. 2015. "Hypothetical Outcome Plots Outperform Error Bars and Violin Plots for Inferences About Reliability of Variable Ordering." *PLOS ONE* 10 (11): e0142444. doi:10.1371/journal.pone.0142444.

Johnson, James R., L. L. C. Summit Analytical, Mark J. Jaros, and I. L. Frankfort. n.d. "Visualizing Multiple Endpoints: Extending the Use of Forest Plots in Clinical Trials."

Kaelin Jr, William G. 2017. "Publish Houses of Brick, Not Mansions of Straw." *Nature News* 545 (7655): 387. doi:10.1038/545387a.

Kardol, Paul, Clydecia M. Spitzer, Michael J. Gundale, Marie-Charlotte Nilsson, and David A. Wardle. 2016. "Trophic Cascades in the Bryosphere: The Impact of Global Change Factors on Top-down Control of Cyanobacterial N $_2$ -Fixation." Edited by Mark Gessner. *Ecology Letters* 19 (8): 967–76. doi:10.1111/ele.12635.

Krzywinski, Martin, and Naomi Altman. 2014. "Points of Significance: Visualizing Samples with Box Plots." *Nature Methods* 11 (2): 119–20.

McNamara, Amelia. 2016a. "Key Attributes of a Modern Statistical Computing Tool." *arXiv:1610.00985 [Cs, Stat]*, September. http://arxiv.org/abs/1610.00985.

———. 2016b. "On the State of Computing in Statistics Education: Tools for Learning and for Doing." *arXiv:1610.00984 [Cs, Stat]*, September. http://arxiv.org/abs/1610.00984.

Munafò, Marcus R., and George Davey Smith. 2018. "Robust Research Needs Many Lines of Evidence."

News. *Nature*. http://www.nature.com/articles/d41586-018-01023-3. doi:10.1038/d41586-018-01023-3.

Padilla-Gamiño, Jacqueline L., Morgan W. Kelly, Tyler G. Evans, and Gretchen E. Hofmann. 2013. "Temperature and Co2 Additively Regulate Physiology, Morphology and Genomic Responses of Larval Sea Urchins, Strongylocentrotus Purpuratus." *Proceedings of the Royal Society of London B: Biological Sciences* 280 (1759): 20130155. doi:10.1098/rspb.2013.0155.

Rousselet, Guillaume A., John J. Foxe, and J. Paul Bolam. 2016. "A Few Simple Steps to Improve the Description of Group Results in Neuroscience." *European Journal of Neuroscience* 44 (9): 2647–51. doi:10.1111/ejn.13400.

Salachan, Paul Vinu, and Jesper Givskov Sørensen. 2017. "Critical Thermal Limits Affected Differently by Developmental and Adult Thermal Fluctuations." *Journal of Experimental Biology* 220 (23): 4471–8. doi:10.1242/jeb.165308.

Schild, Anne H. E., and Martin Voracek. 2013. "Less Is Less: A Systematic Review of Graph Use in Meta-Analyses: GRAPH USE IN META-ANALYSES." *Research Synthesis Methods*, March, n/a–n/a. doi:10.1002/jrsm.1076.

———. 2015. "Finding Your Way Out of the Forest Without a Trail of Bread Crumbs: Development and Evaluation of Two Novel Displays of Forest Plots: Evaluation of Novel Designs of Forest Plots." *Research Synthesis Methods* 6 (1): 74–86. doi:10.1002/jrsm.1125.

Spitzer, Michaela, Jan Wildenhain, Juri Rappsilber, and Mike Tyers. 2014. "BoxPlotR: A Web Tool for Generation of Box Plots." *Nature Methods* 11 (2): 121–22.

Vaux, David L. 2014. "Basic Statistics in Cell Biology." *Annual Review of Cell and Developmental Biology* 30 (1): 23–37. doi:10.1146/annurev-cellbio-100913-013303.

Walker, Jeffrey A. 2017. "HarrellPlot: A Shiny App to Combine Data, Distribution Summary, Model Effects, and Uncertainty in a Single Plot."

———. 2018. "Bias in Pre-Post Designs - an Example from the Turnbaugh et Al (2006) Mouse Fecal Transplant Study." *Https://Www.middleprofessor.com/Files/Quasipubs/Change_scores.html*, March. doi:10.6084/m9.figshare.6025571.

Weissgerber, Tracey L, Vesna D Garovic, Stacey J Winham, Natasa M Milic, and Eric M Prager. 2016. "Transparent Reporting for Reproducible Science." *Journal of Neuroscience Research* 94 (10): 859–64. doi:10.1002/jnr.23785.

Weissgerber, Tracey L., Natasa M. Milic, Stacey J. Winham, and Vesna D. Garovic. 2015. "Beyond Bar and Line Graphs: Time for a New Data Presentation Paradigm." *PLOS Biology* 13 (4): e1002128. doi:10.1371/journal.pbio.1002128.

Weissgerber, Tracey L., Marko Savic, Stacey J. Winham, Dejana Stanisavljevic, Vesna D. Garovic, and Natasa M. Milic. 2017. "Data Visualization, Bar Naked: A Free Tool for Creating Interactive Graphics." *Journal of Biological Chemistry* 292 (50): 20592–8. doi:10.1074/jbc.RA117.000147.