

Kendall's W Coefficient of Concordance

Test: Kendall's W Coefficient of Concordance

Design: Agreement/effect-size analysis of within-student rankings across G1, G2, and G3.

Variables: G1, G2, G3

Null hypothesis: The repeated grade occasions show no concordant ordering beyond chance.

Formula: $W = Q_{\text{Friedman}}/[n(k-1)]$

Source rows: 649

Calculated metrics:

kendalls_w: 0.12891238625304

friedman_chi_square: 167.328277356446

p_value: 4.62515443869202e-37

n_blocks: 649

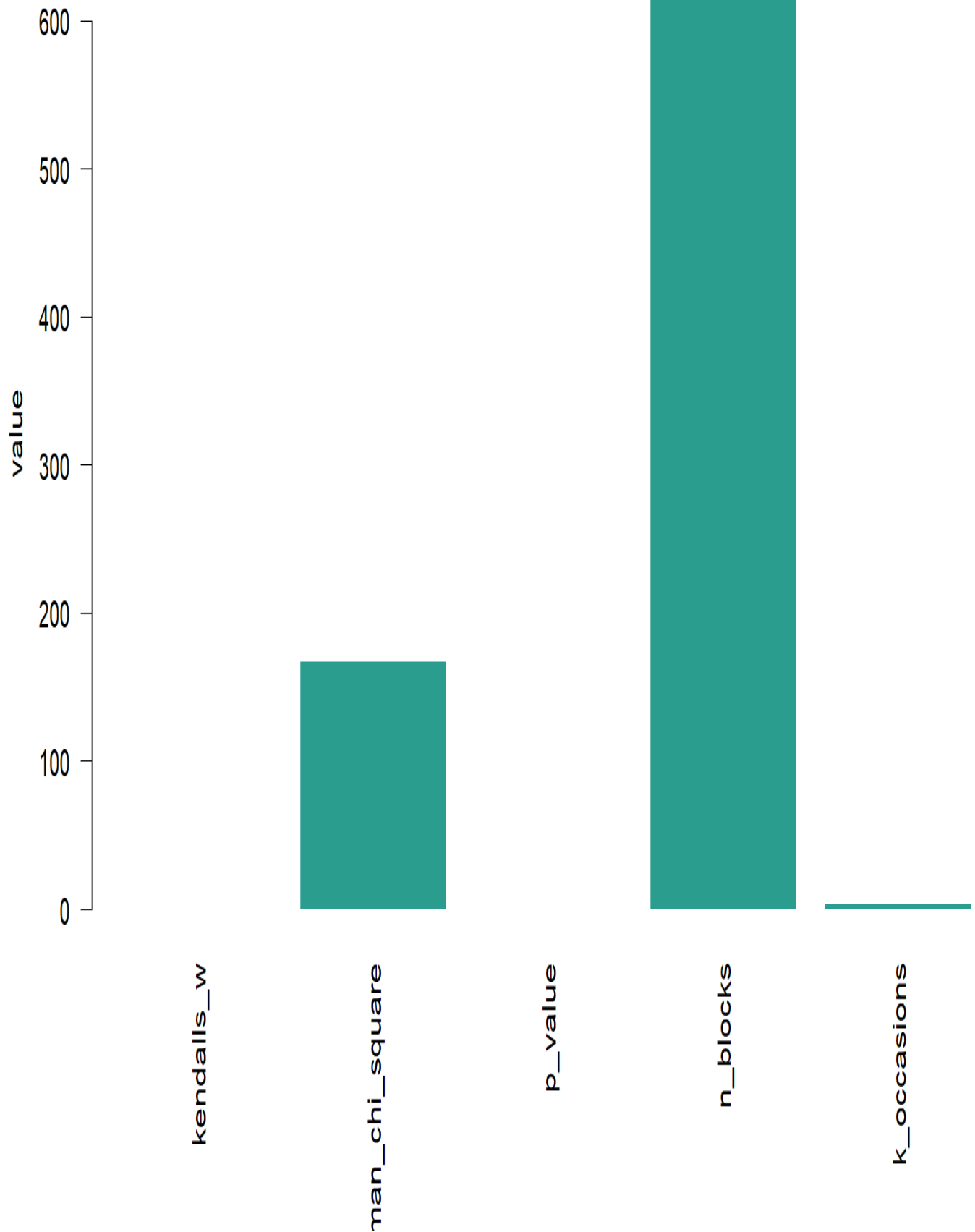
k_occasions: 3

Interpretation:

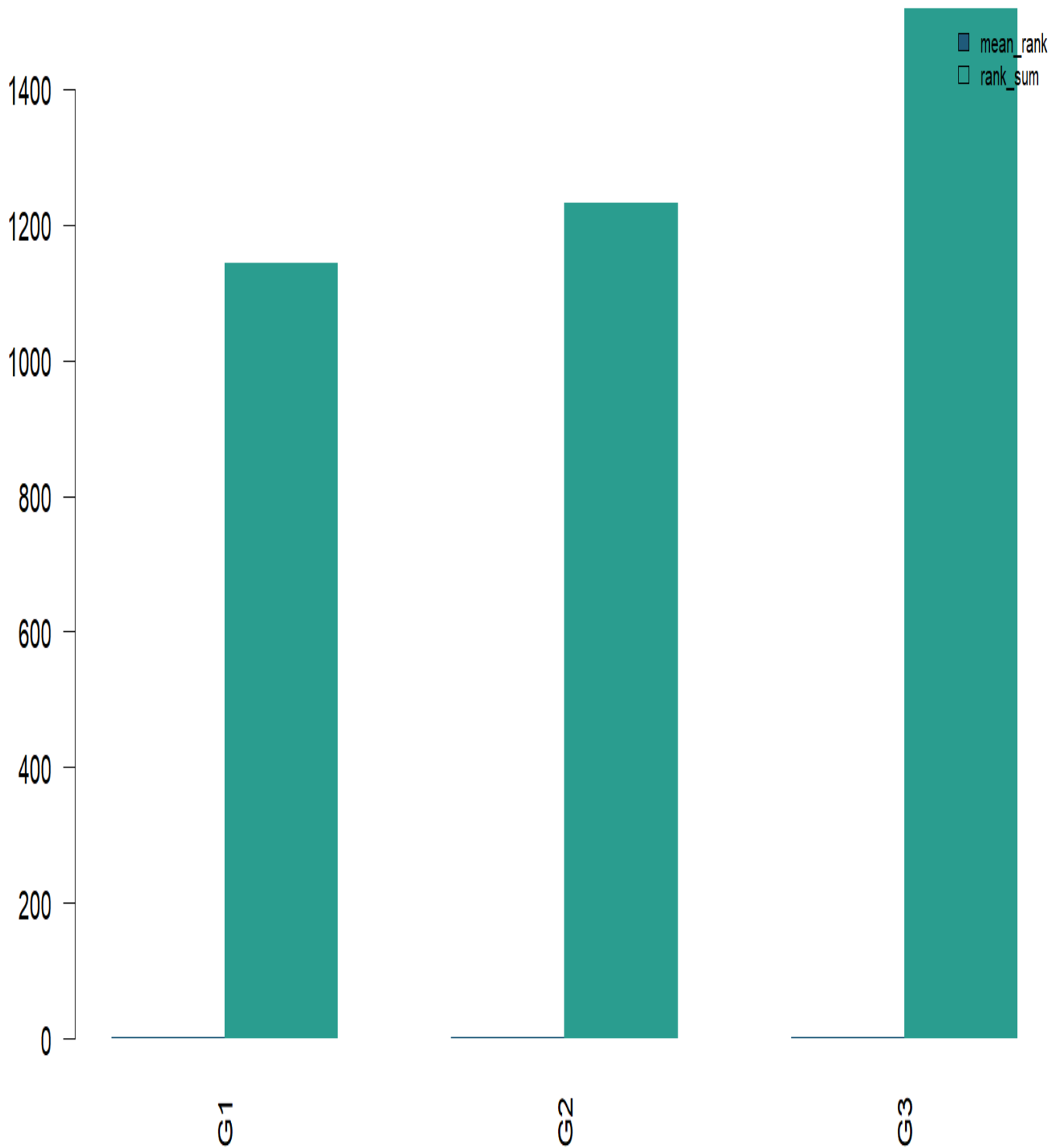
Kendall W = 0.12891238625304

Friedman supplies inference and W supplies concordance magnitude.

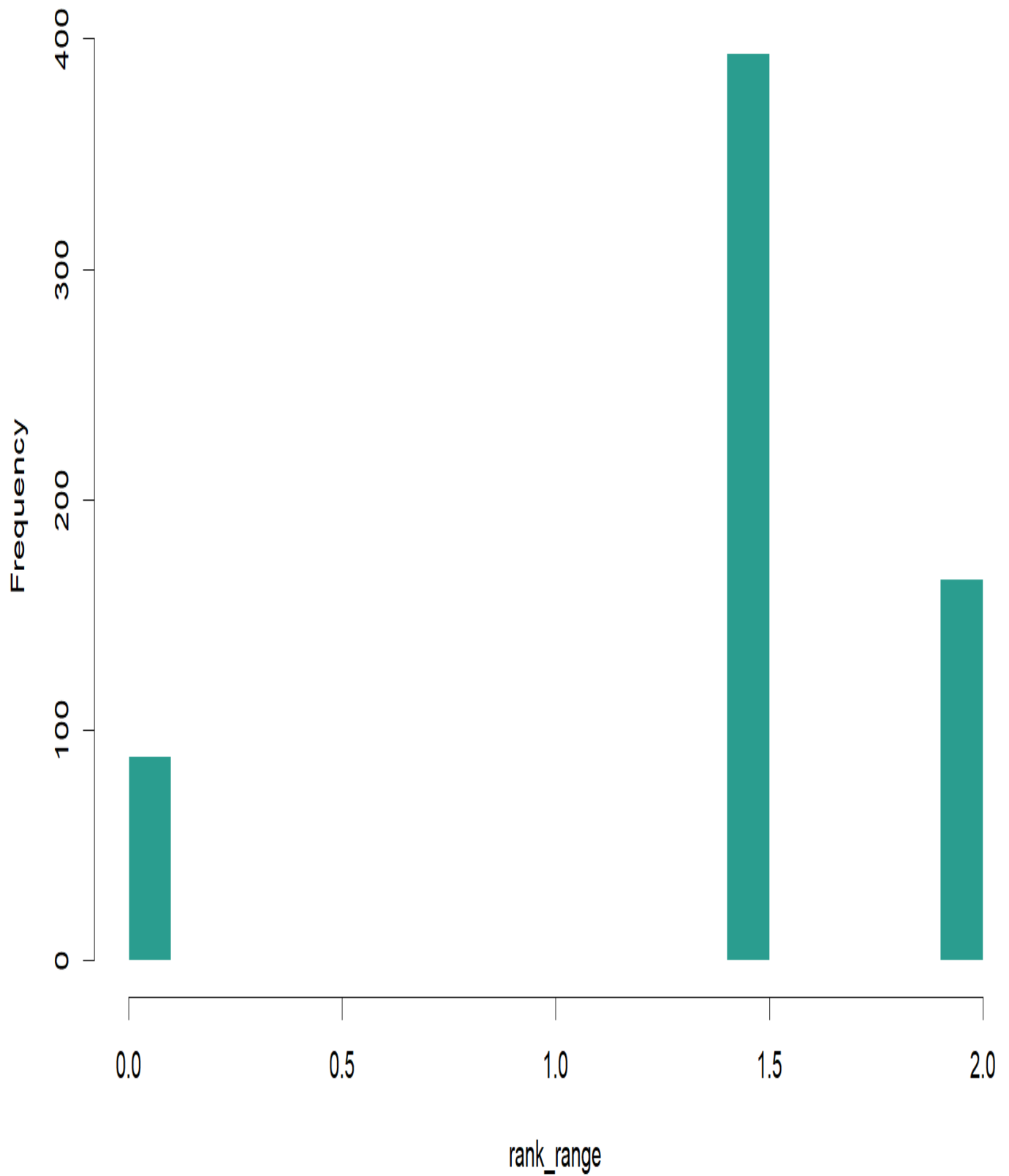
Kendall's W Coefficient of Concordance - primary metrics



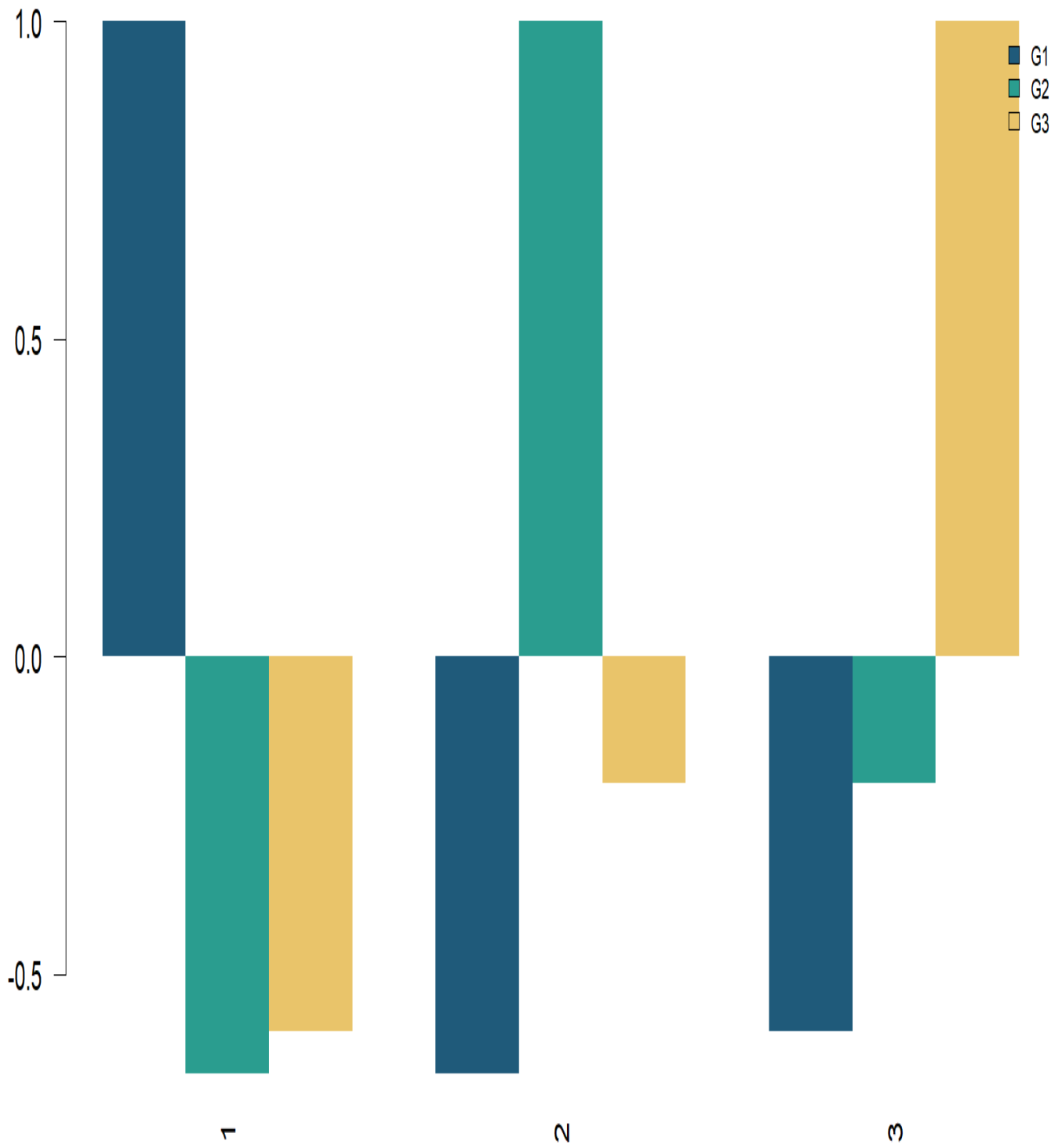
Kendall's W Coefficient of Concordance - occasion concordance



Kendall's W Coefficient of Concordance - subject rank spread



Kendall's W Coefficient of Concordance - rank correlations



Kendall's W Coefficient of Concordance verified results

