

Friedman Test

Test: Friedman Test

Design: Three repeated grade occasions analyzed as a complete block design with students as blocks.

Variables: G1, G2, G3

Null hypothesis: The three repeated grade distributions have equal location.

Formula: $Q = 12/[n k(k+1)] \sum_j R_j^2 - 3n(k+1)$, with tie correction.

Source rows: 649

Calculated metrics:

statistic: 167.328277356446

p_value: 4.62515443869202e-37

degrees_of_freedom: 2

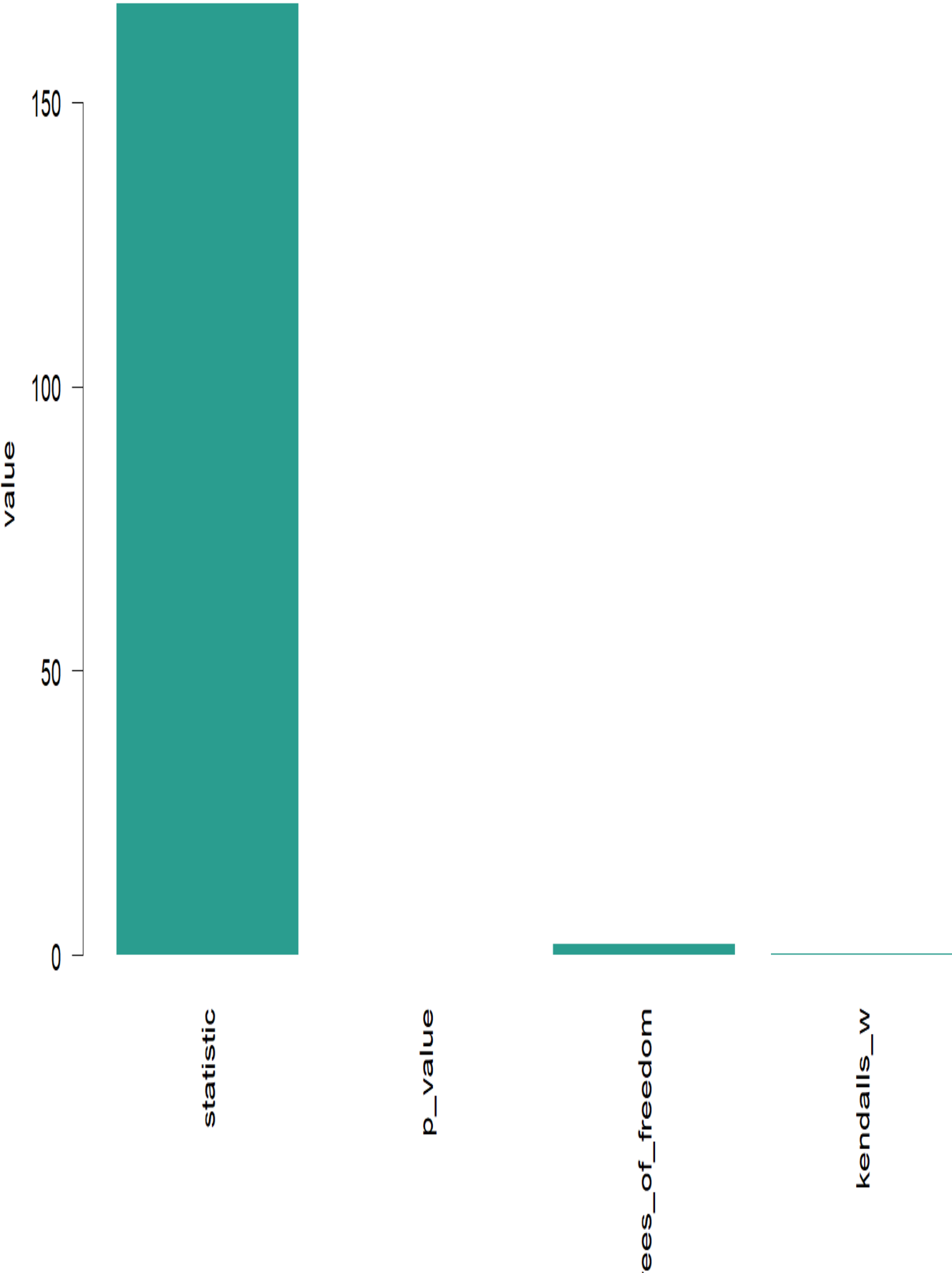
kendalls_w: 0.12891238625304

Interpretation:

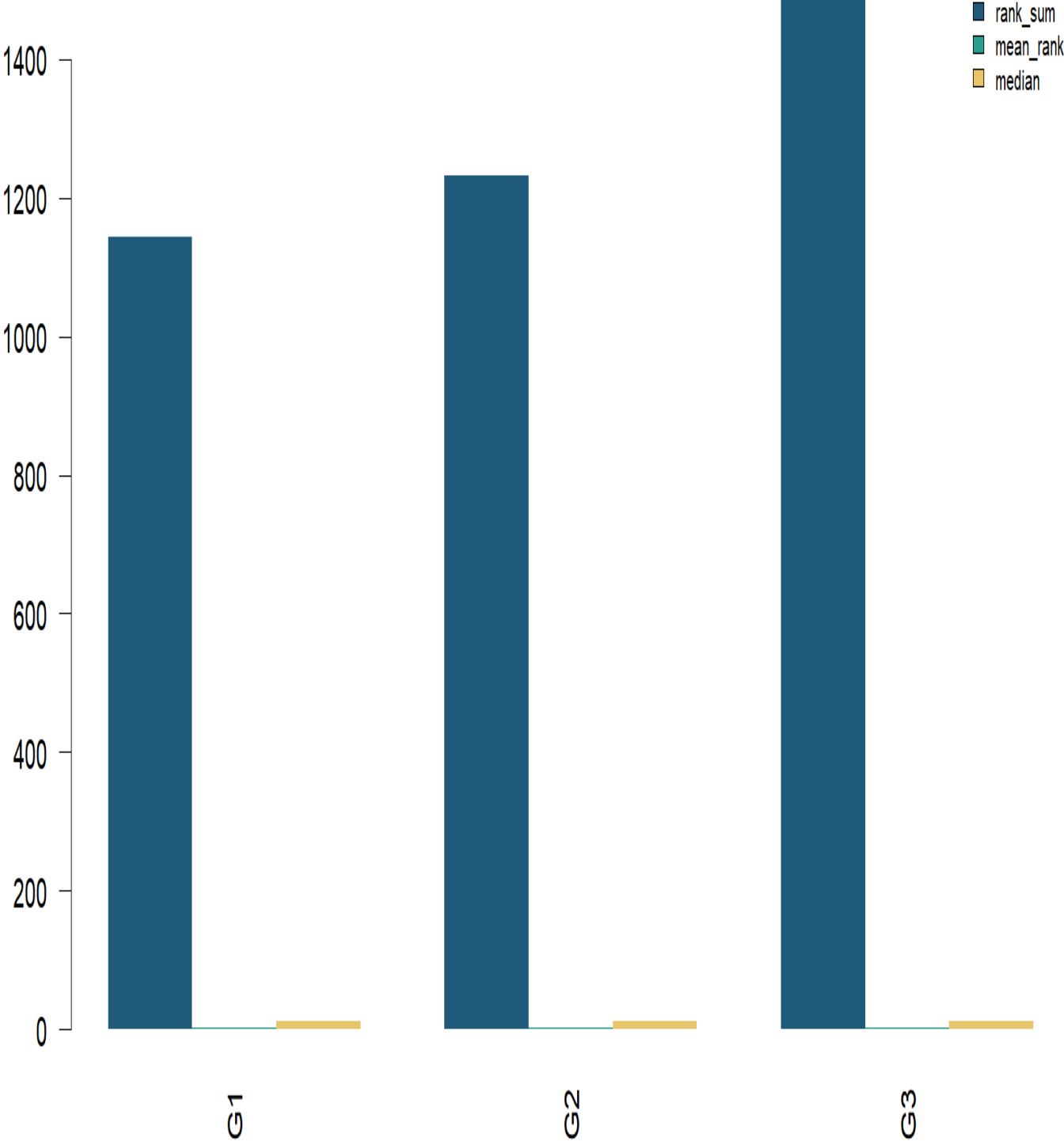
Students are complete blocks and grades are ranked within row.

Friedman p = 4.62515443869202e-37

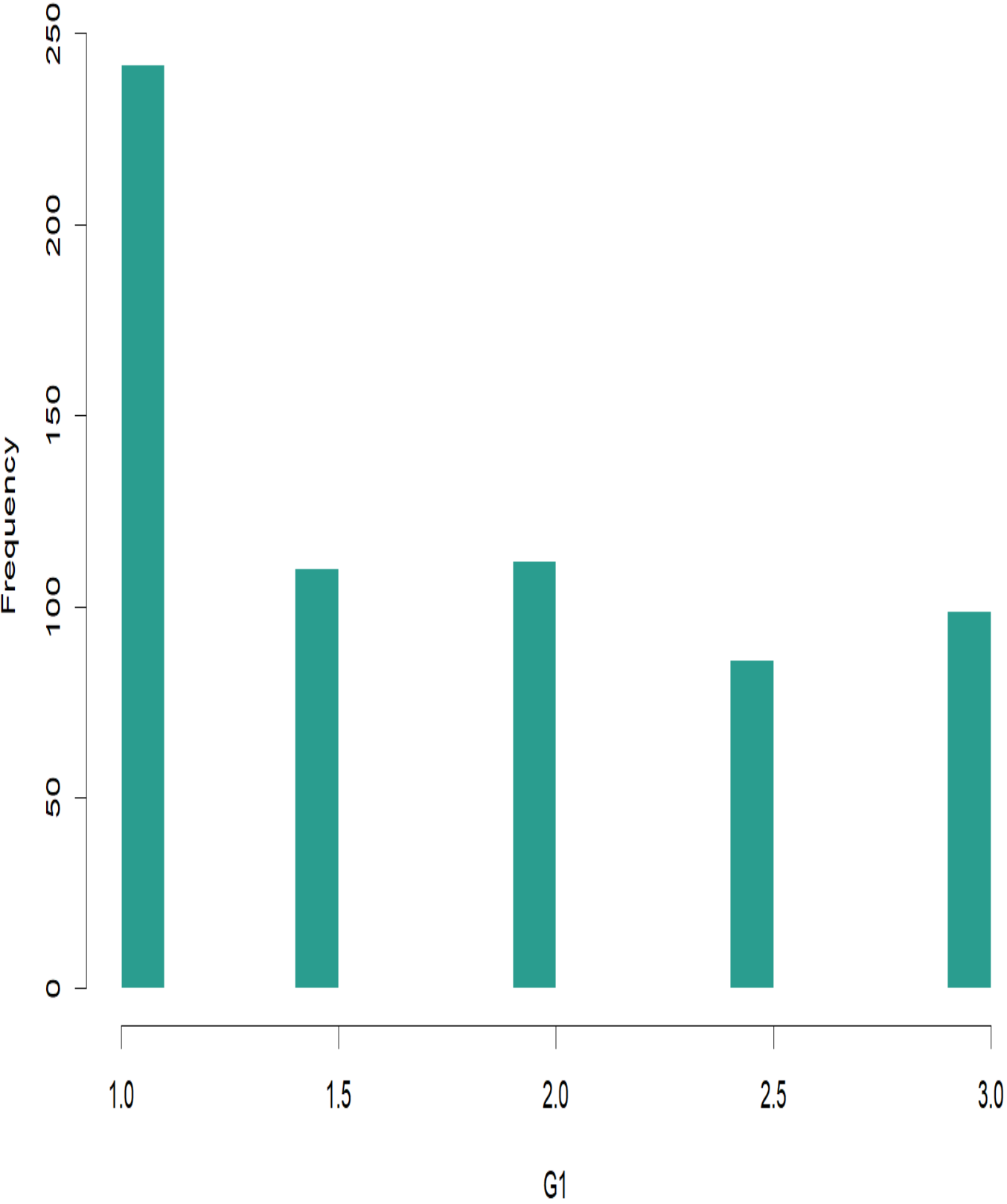
Friedman Test - primary metrics



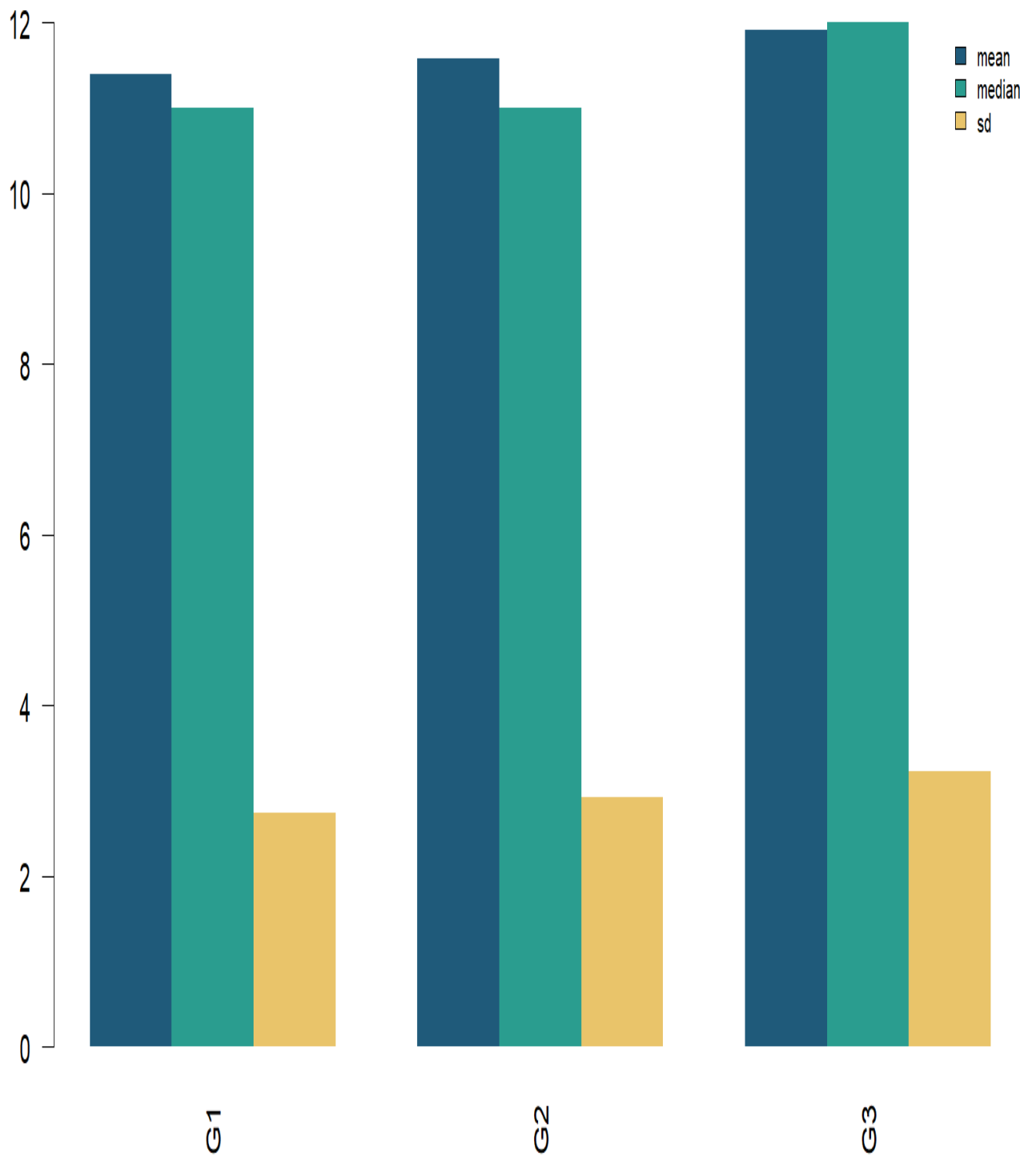
Friedman Test - occasion rank summary



Friedman Test - student block ranks



Friedman Test - grade descriptives



Friedman Test verified results

