

Krippendorff's Nominal Alpha

Standalone verified Python analysis

Test: Krippendorff's Nominal Alpha

Design: Nominal agreement among the three categorized grade occasions using coincidence disagreement.

Variables: categorized G1, categorized G2, categorized G3

Null hypothesis: Observed nominal disagreement equals disagreement expected from pooled category values.

Formula: $\alpha_K = 1 - D_o / D_e$.

Source rows: 649

Calculated metrics:

krippendorff_alpha: 0.6423094697924543

observed_disagreement: 0.21571648690292758

expected_disagreement: 0.603081347380823

ratars: 3

subjects: 649

Independent reference values:

krippendorff_alpha: 0.6423094697924543

observed_disagreement: 0.21571648690292758

expected_disagreement: 0.603081347380823

ratars: 3

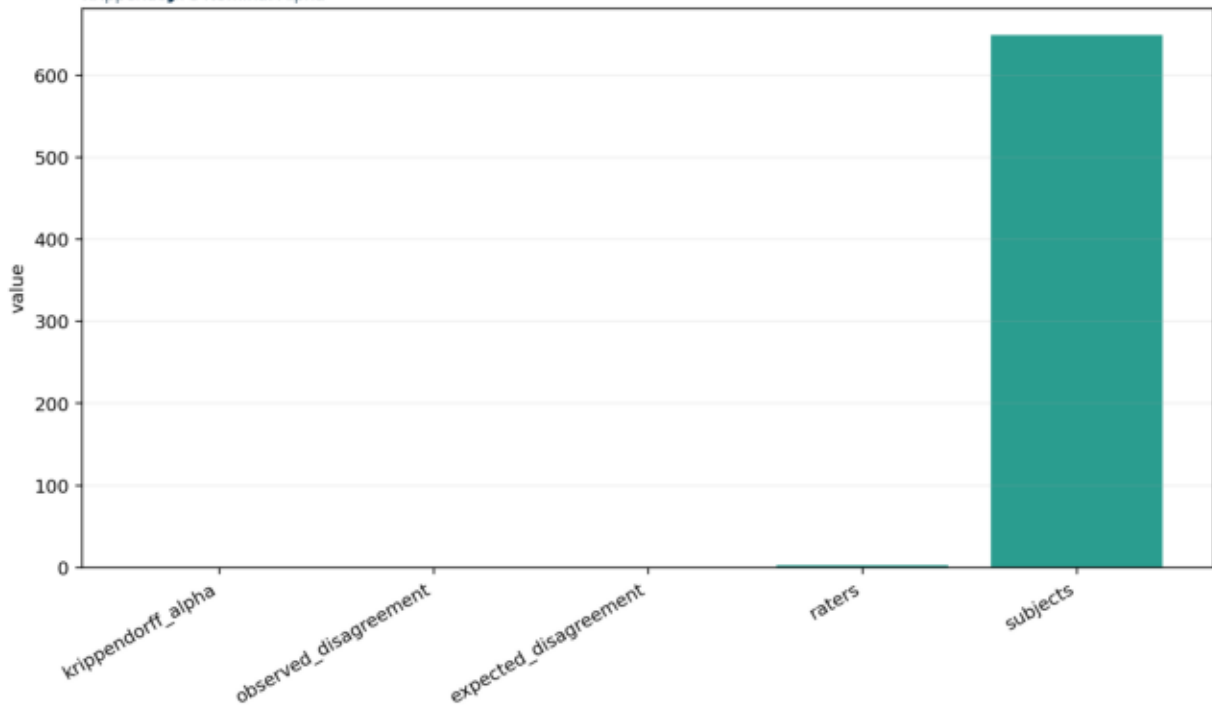
subjects: 649

Interpretation:

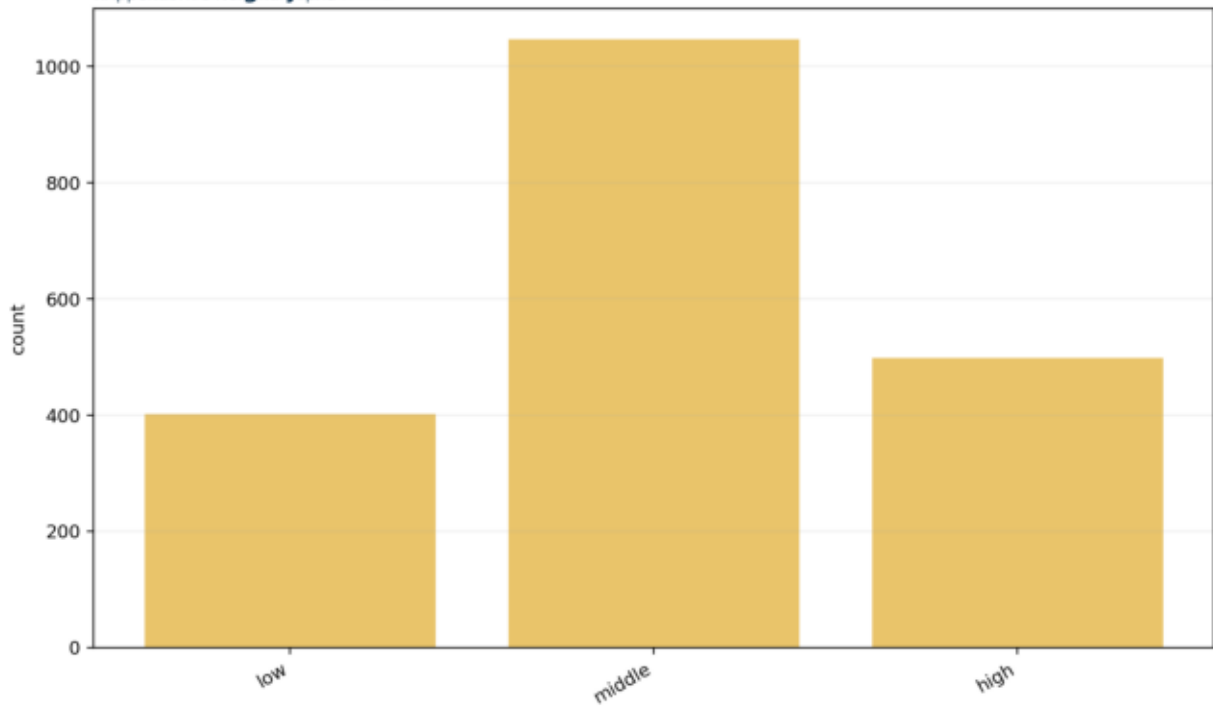
Coincidence disagreement is nominal; no category-distance weights are imposed.

Krippendorff alpha=0.642309.

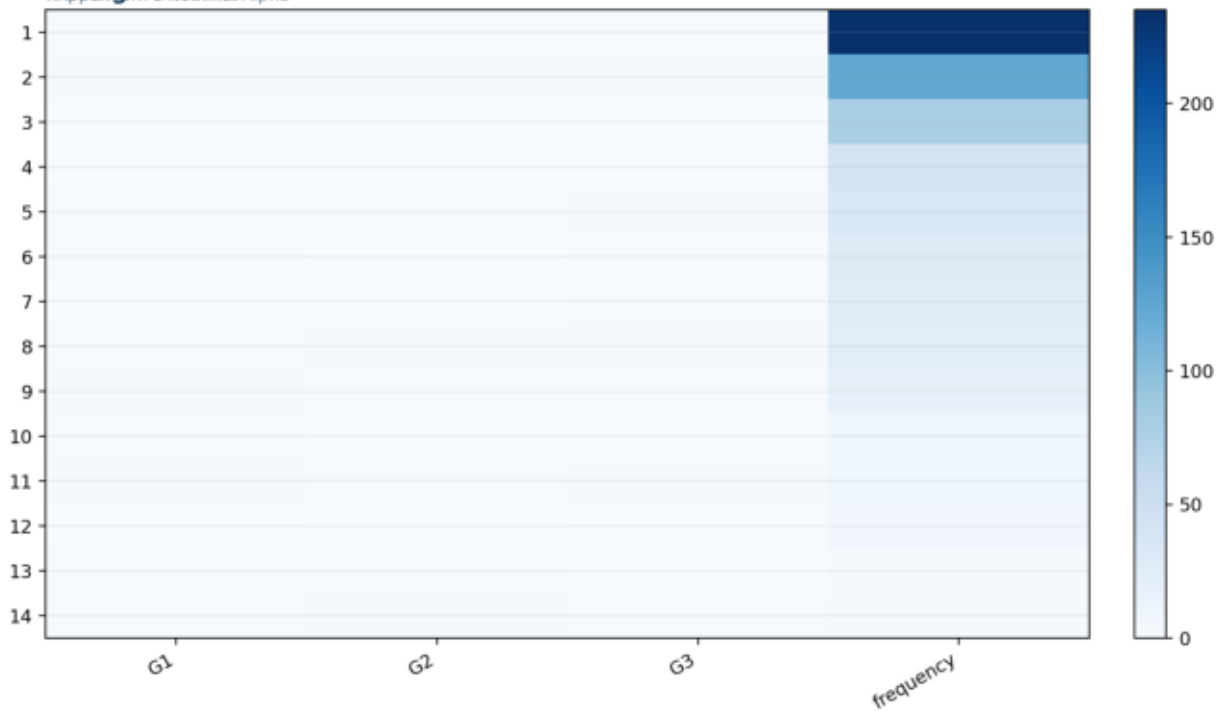
Primary Metrics



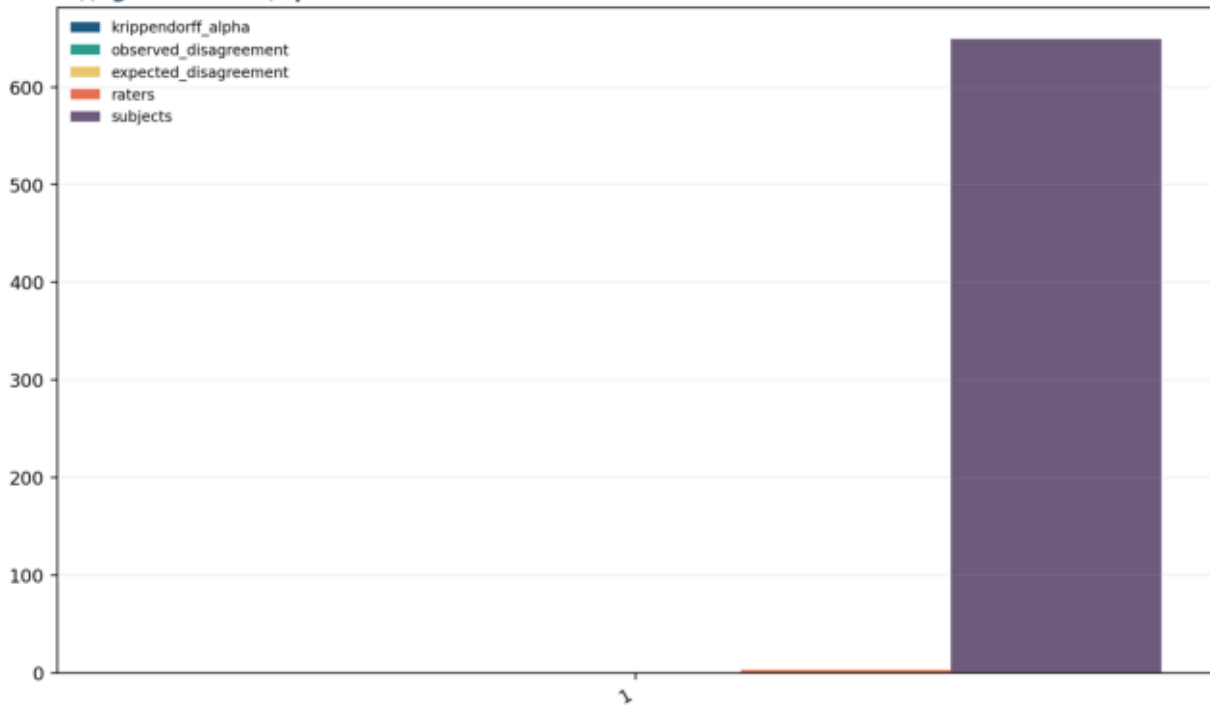
Pooled Category Counts



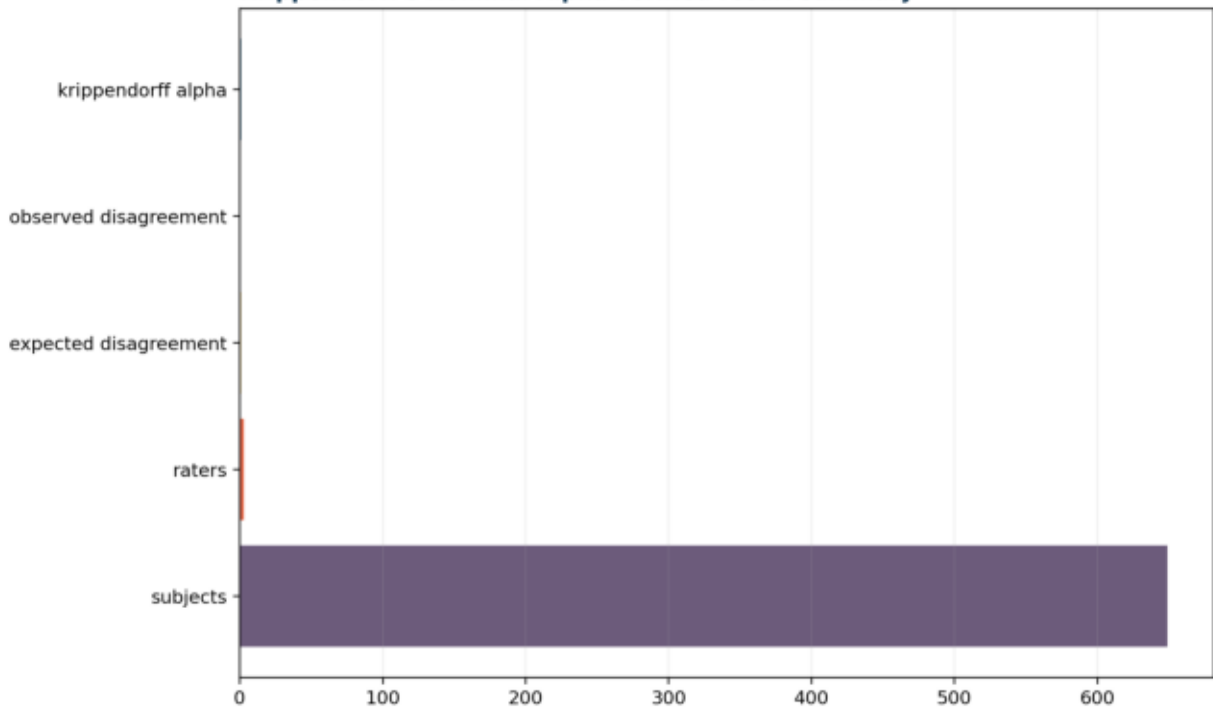
Rating Patterns



Disagreement Components



Krippendorff's Nominal Alpha verified result summary



Primary Metrics

metric	value
krippendorff_alpha	0.642309
observed_disagreement	0.215716
expected_disagreement	0.603081
raters	3
subjects	649

Pooled Category Counts

category	count
low	402
middle	1047
high	498

Rating Patterns

G1	G2	G3	frequency
1	1	1	235
2	2	2	124
0	0	0	80
0	1	1	42
1	1	2	36
1	0	1	29
0	0	1	27
1	2	2	25
2	1	1	19
1	0	0	9
2	1	2	9
0	1	0	8
1	1	0	3
1	2	1	3

Disagreement Components

krippendorff_alpha	observed_disagreement	expected_disagreement	raters	subjects
0.642309	0.215716	0.603081	3	649