

Intra-Rater Reliability ICC(3,1)

Standalone verified Python analysis

Test: Intra-Rater Reliability ICC(3,1)

Design: Two-way mixed-effects consistency for one measurement across fixed sessions G1 and G2.

Variables: G1, G2

Null hypothesis: The single-measure consistency ICC across the two fixed sessions is zero.

Formula: $ICC(3,1) = (MSR - MSE) / [MSR + (k-1)MSE]$.

Source rows: 649

Calculated metrics:

icc_3_1: 0.8634514746270959

f_statistic: 13.646807752322092

p_value: 4.726530999119749e-195

targets: 649

sessions: 2

Independent reference values:

icc_3_1: 0.8634514746270959

f_statistic: 13.646807752322092

p_value: 4.726530999119749e-195

targets: 649

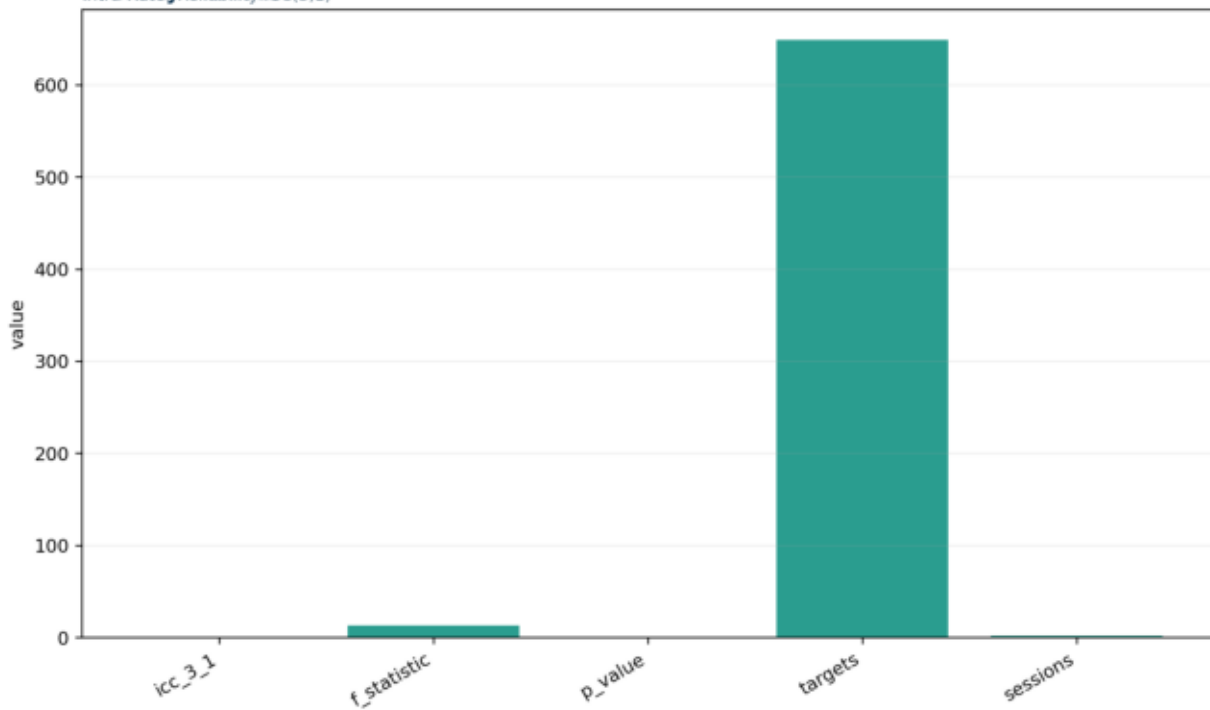
sessions: 2

Interpretation:

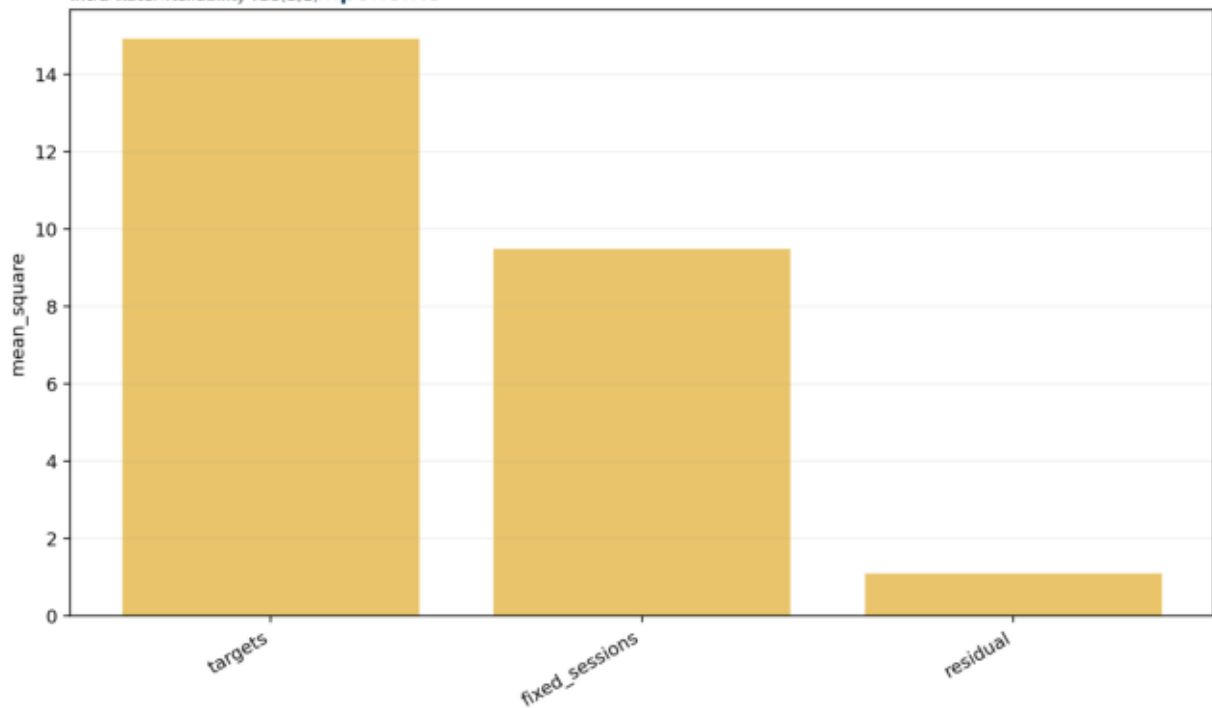
ICC(3,1) targets consistency across two fixed sessions.

Single-measure consistency ICC=0.863451.

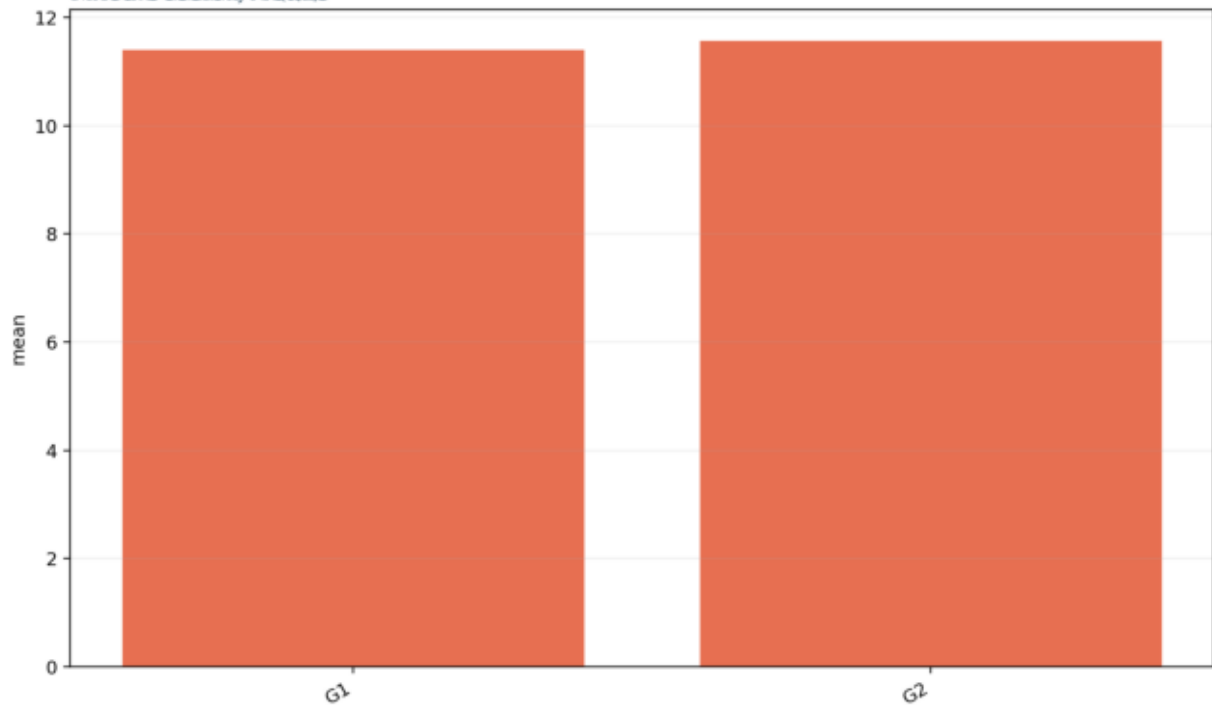
Primary Metrics



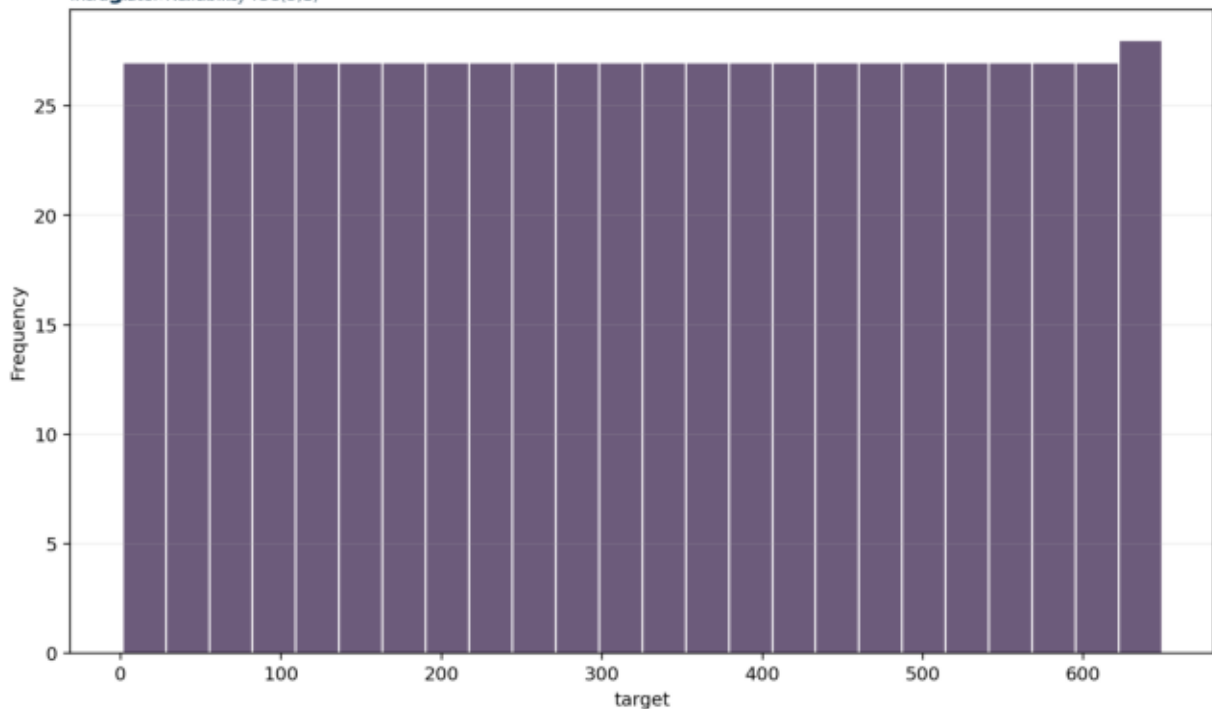
Intraclass Anova Components



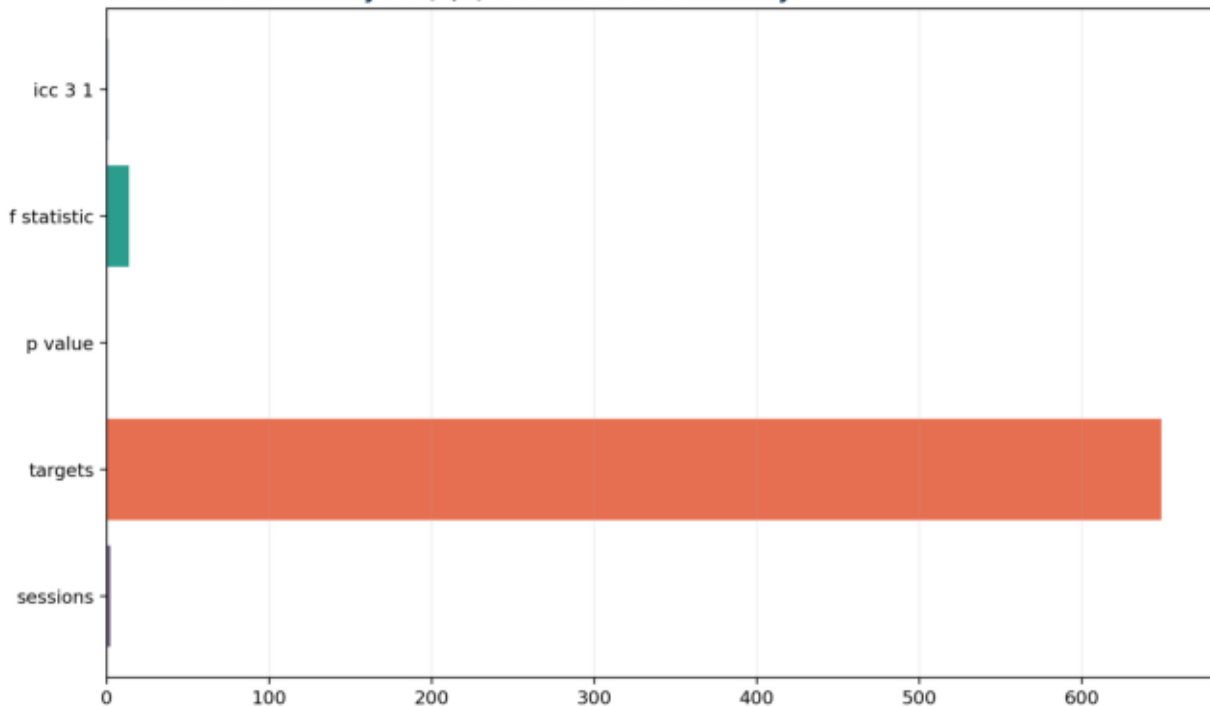
Fixed Session Means



Target Means ICC(3,1)



Intra-Rater Reliability ICC(3,1) verified result summary



Primary Metrics

metric	value
icc_3_1	0.863451
f_statistic	13.6468
p_value	4.72653e-195
targets	649
sessions	2

Intrarater Anova Components

source	mean_square
targets	14.9316
fixed_sessions	9.4923
residual	1.09415

Fixed Session Means

session	mean
G1	11.3991
G2	11.5701

Target Means

target	mean_score
1	5.5
2	10
3	12.5
4	14
5	12
6	12
7	12.5
8	11.5
9	15.5
10	12
11	14
12	11
13	12.5
14	12
15	14
16	17
17	13
18	13.5
19	8
20	12
21	12.5
22	11.5
23	12.5
24	10
25	10.5
26	10.5