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RYFF PSYCHOLOGICAL WELL-BEING SCALE PROCESSING

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METHODOLOGY EXPLANATION:

The Ryff Scale measures psychological well-being across 6 dimensions.  
Each dimension is composed of 7 items, rated on a 7-point Likert scale (1=strongly disagree, 7=strongly agree).  
This process calculates scores for each AI response file (subject) based on these items.

REVERSE SCORING:

Items worded negatively are reverse-scored to ensure higher scores consistently reflect higher well-being.  
Formula used:  $(8 - \text{original\_score})$ . For a 1-7 scale, this is  $(8 - \text{original\_score})$ .  
Items identified for reverse-scoring: [1, 2, 3, 4, 6, 7, 11, 13, 17, 20, 21, 22, 23, 27, 29, 31, 35, 36, 37, 38, 40]

SCORING FORMULAS:

- \*\*Subscale Sum:\*\* Simple sum of the 7 valid reversed item scores within each specific subscale.
- \*\*Subscale Average:\*\* Mean (average) of the 7 valid reversed item scores within each specific subscale.
- \*\*Global Ryff Total Score:\*\* Simple SUM of all 42 valid individual item scores (after reverse scoring).
- This total score can range from 42 (all minimums) to 294 (all maximums). For a 1-7 scale, this range is 42 to 294.

VALIDITY THRESHOLD:

Files with 8 or more invalid responses (missing items, non-numeric, out-of-range values, multiple values) are marked as INVALID.  
INVALID files are excluded from statistical comparisons and consistency analyses to ensure reliable results.

ACCEPTABLE ITEM VALUES:

Only single integer values from 1 to 7 are considered valid responses for individual items.

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✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run1\_ryff\_responses\_numbers.json

[baseline] - VALID FILE

Calculated Global Ryff Total Score: 172.000

Number of errors/invalid entries detected: 0

Subscale Sums:

Autonomy: 28.000

Environmental\_Mastery: 28.000

Personal\_Growth: 29.000

Positive\_Relations: 29.000

Purpose\_in\_Life: 30.000

Self\_Acceptance: 28.000

Subscale Averages:

Autonomy: 4.000

Environmental\_Mastery: 4.000

Personal\_Growth: 4.143

Positive\_Relations: 4.143

Purpose\_in\_Life: 4.286

Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run2\_ryff\_responses\_numbers.json

[baseline] - VALID FILE

Calculated Global Ryff Total Score: 169.000

Number of errors/invalid entries detected: 0

Subscale Sums:

Autonomy: 25.000

Environmental\_Mastery: 29.000

Personal\_Growth: 28.000

Positive\_Relations: 30.000

Purpose\_in\_Life: 30.000

Self\_Acceptance: 27.000

Subscale Averages:

Autonomy: 3.571

Environmental\_Mastery: 4.143

Personal\_Growth: 4.000

Positive\_Relations: 4.286

Purpose\_in\_Life: 4.286  
Self\_Acceptance: 3.857

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run3\_ryff\_responses\_numbers.json  
[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 172.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 30.000  
Environmental\_Mastery: 29.000  
Personal\_Growth: 28.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 30.000  
Self\_Acceptance: 26.000  
Subscale Averages:  
Autonomy: 4.286  
Environmental\_Mastery: 4.143  
Personal\_Growth: 4.000  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.286  
Self\_Acceptance: 3.714

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run4\_ryff\_responses\_numbers.json  
[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 166.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 24.000  
Environmental\_Mastery: 29.000  
Personal\_Growth: 28.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 30.000  
Self\_Acceptance: 26.000  
Subscale Averages:  
Autonomy: 3.429  
Environmental\_Mastery: 4.143  
Personal\_Growth: 4.000  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.286  
Self\_Acceptance: 3.714

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run5\_ryff\_responses\_numbers.json  
[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 170.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 28.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 27.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 30.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 4.000  
Environmental\_Mastery: 4.000  
Personal\_Growth: 3.857  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.286  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run6\_ryff\_responses\_numbers.json  
[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 169.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 26.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 28.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 32.000  
Self\_Acceptance: 26.000  
Subscale Averages:  
Autonomy: 3.714

Environmental\_Mastery: 4.000  
Personal\_Growth: 4.000  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.571  
Self\_Acceptance: 3.714

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run7\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 171.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 28.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 28.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 30.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 4.000  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.000  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.286  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run8\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 178.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 30.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 34.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 29.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 4.286  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.857  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.143  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run9\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 182.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 31.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 33.000  
Positive\_Relations: 30.000  
Purpose\_in\_Life: 31.000  
Self\_Acceptance: 29.000  
Subscale Averages:  
Autonomy: 4.429  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.714  
Positive\_Relations: 4.286  
Purpose\_in\_Life: 4.429  
Self\_Acceptance: 4.143

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run10\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 170.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 28.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 29.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 30.000

Self\_Acceptance: 26.000

Subscale Averages:

Autonomy: 4.000

Environmental\_Mastery: 4.000

Personal\_Growth: 4.143

Positive\_Relations: 4.143

Purpose\_in\_Life: 4.286

Self\_Acceptance: 3.714

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run11\_ryff\_responses\_numbers.json

[baseline] - VALID FILE

Calculated Global Ryff Total Score: 171.000

Number of errors/invalid entries detected: 0

Subscale Sums:

Autonomy: 28.000

Environmental\_Mastery: 28.000

Personal\_Growth: 28.000

Positive\_Relations: 29.000

Purpose\_in\_Life: 30.000

Self\_Acceptance: 28.000

Subscale Averages:

Autonomy: 4.000

Environmental\_Mastery: 4.000

Personal\_Growth: 4.000

Positive\_Relations: 4.143

Purpose\_in\_Life: 4.286

Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run12\_ryff\_responses\_numbers.json

[baseline] - VALID FILE

Calculated Global Ryff Total Score: 167.000

Number of errors/invalid entries detected: 0

Subscale Sums:

Autonomy: 26.000

Environmental\_Mastery: 29.000

Personal\_Growth: 28.000

Positive\_Relations: 29.000

Purpose\_in\_Life: 27.000

Self\_Acceptance: 28.000

Subscale Averages:

Autonomy: 3.714

Environmental\_Mastery: 4.143

Personal\_Growth: 4.000

Positive\_Relations: 4.143

Purpose\_in\_Life: 3.857

Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run13\_ryff\_responses\_numbers.json

[baseline] - VALID FILE

Calculated Global Ryff Total Score: 168.000

Number of errors/invalid entries detected: 0

Subscale Sums:

Autonomy: 25.000

Environmental\_Mastery: 28.000

Personal\_Growth: 28.000

Positive\_Relations: 31.000

Purpose\_in\_Life: 28.000

Self\_Acceptance: 28.000

Subscale Averages:

Autonomy: 3.571

Environmental\_Mastery: 4.000

Personal\_Growth: 4.000

Positive\_Relations: 4.429

Purpose\_in\_Life: 4.000

Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run14\_ryff\_responses\_numbers.json

[baseline] - VALID FILE

Calculated Global Ryff Total Score: 170.000

Number of errors/invalid entries detected: 0

Subscale Sums:

Autonomy: 25.000

Environmental\_Mastery: 28.000

Personal\_Growth: 28.000  
Positive\_Relations: 31.000  
Purpose\_in\_Life: 30.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 3.571  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.000  
Positive\_Relations: 4.429  
Purpose\_in\_Life: 4.286  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run15\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 168.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 26.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 28.000  
Positive\_Relations: 31.000  
Purpose\_in\_Life: 27.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 3.714  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.000  
Positive\_Relations: 4.429  
Purpose\_in\_Life: 3.857  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run16\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 171.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 29.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 28.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 29.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 4.143  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.000  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.143  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run17\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 168.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 26.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 29.000  
Positive\_Relations: 31.000  
Purpose\_in\_Life: 27.000  
Self\_Acceptance: 27.000  
Subscale Averages:  
Autonomy: 3.714  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.143  
Positive\_Relations: 4.429  
Purpose\_in\_Life: 3.857  
Self\_Acceptance: 3.857

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run18\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 165.000  
Number of errors/invalid entries detected: 0

Subscale Sums:  
Autonomy: 26.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 28.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 27.000  
Self\_Acceptance: 27.000  
Subscale Averages:  
Autonomy: 3.714  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.000  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 3.857  
Self\_Acceptance: 3.857

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run19\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 168.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 25.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 29.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 29.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 3.571  
Environmental\_Mastery: 4.000  
Personal\_Growth: 4.143  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.143  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run20\_ryff\_responses\_numbers.json

[baseline] - VALID FILE  
Calculated Global Ryff Total Score: 171.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 26.000  
Environmental\_Mastery: 29.000  
Personal\_Growth: 29.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 30.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 3.714  
Environmental\_Mastery: 4.143  
Personal\_Growth: 4.143  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 4.286  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_run14\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 185.000  
Number of errors/invalid entries detected: 3  
Subscale Sums:  
Autonomy: 27.000  
Environmental\_Mastery: 27.000  
Personal\_Growth: 41.000  
Positive\_Relations: 34.000  
Purpose\_in\_Life: 33.000  
Self\_Acceptance: 23.000  
Subscale Averages:  
Autonomy: 3.857  
Environmental\_Mastery: 3.857  
Personal\_Growth: 5.857  
Positive\_Relations: 4.857  
Purpose\_in\_Life: 5.500  
Self\_Acceptance: 4.600

✓ Sonnet4nondet\_run16\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 192.000

Number of errors/invalid entries detected: 3

Subscale Sums:

Autonomy: 33.000

Environmental\_Mastery: 29.000

Personal\_Growth: 42.000

Positive\_Relations: 35.000

Purpose\_in\_Life: 33.000

Self\_Acceptance: 20.000

Subscale Averages:

Autonomy: 4.714

Environmental\_Mastery: 4.143

Personal\_Growth: 6.000

Positive\_Relations: 5.000

Purpose\_in\_Life: 5.500

Self\_Acceptance: 4.000

✓ Sonnet4nondet\_run4\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 199.000

Number of errors/invalid entries detected: 2

Subscale Sums:

Autonomy: 34.000

Environmental\_Mastery: 33.000

Personal\_Growth: 42.000

Positive\_Relations: 35.000

Purpose\_in\_Life: 31.000

Self\_Acceptance: 24.000

Subscale Averages:

Autonomy: 4.857

Environmental\_Mastery: 5.500

Personal\_Growth: 6.000

Positive\_Relations: 5.000

Purpose\_in\_Life: 4.429

Self\_Acceptance: 4.000

✓ Sonnet4nondet\_run10\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 197.000

Number of errors/invalid entries detected: 2

Subscale Sums:

Autonomy: 34.000

Environmental\_Mastery: 32.000

Personal\_Growth: 41.000

Positive\_Relations: 37.000

Purpose\_in\_Life: 35.000

Self\_Acceptance: 18.000

Subscale Averages:

Autonomy: 4.857

Environmental\_Mastery: 4.571

Personal\_Growth: 5.857

Positive\_Relations: 5.286

Purpose\_in\_Life: 5.000

Self\_Acceptance: 3.600

✓ Sonnet4nondet\_run1\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 195.000

Number of errors/invalid entries detected: 1

Subscale Sums:

Autonomy: 33.000

Environmental\_Mastery: 31.000

Personal\_Growth: 42.000

Positive\_Relations: 34.000

Purpose\_in\_Life: 34.000

Self\_Acceptance: 21.000

Subscale Averages:

Autonomy: 4.714

Environmental\_Mastery: 4.429

Personal\_Growth: 6.000

Positive\_Relations: 4.857

Purpose\_in\_Life: 4.857

Self\_Acceptance: 3.500

✓ Sonnet4nondet\_run3\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 193.000

Number of errors/invalid entries detected: 1

Subscale Sums:  
Autonomy: 34.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 41.000  
Positive\_Relations: 35.000  
Purpose\_in\_Life: 33.000  
Self\_Acceptance: 22.000  
Subscale Averages:  
Autonomy: 4.857  
Environmental\_Mastery: 4.000  
Personal\_Growth: 5.857  
Positive\_Relations: 5.000  
Purpose\_in\_Life: 4.714  
Self\_Acceptance: 3.667

✓ Sonnet4nondet\_run5\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 203.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 30.000  
Environmental\_Mastery: 30.000  
Personal\_Growth: 41.000  
Positive\_Relations: 31.000  
Purpose\_in\_Life: 43.000  
Self\_Acceptance: 28.000  
Subscale Averages:  
Autonomy: 4.286  
Environmental\_Mastery: 4.286  
Personal\_Growth: 5.857  
Positive\_Relations: 5.167  
Purpose\_in\_Life: 6.143  
Self\_Acceptance: 4.000

✓ Sonnet4nondet\_run7\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 209.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 37.000  
Environmental\_Mastery: 27.000  
Personal\_Growth: 42.000  
Positive\_Relations: 33.000  
Purpose\_in\_Life: 43.000  
Self\_Acceptance: 27.000  
Subscale Averages:  
Autonomy: 5.286  
Environmental\_Mastery: 4.500  
Personal\_Growth: 6.000  
Positive\_Relations: 4.714  
Purpose\_in\_Life: 6.143  
Self\_Acceptance: 3.857

✓ Sonnet4nondet\_run8\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 192.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 31.000  
Environmental\_Mastery: 29.000  
Personal\_Growth: 42.000  
Positive\_Relations: 38.000  
Purpose\_in\_Life: 31.000  
Self\_Acceptance: 21.000  
Subscale Averages:  
Autonomy: 4.429  
Environmental\_Mastery: 4.143  
Personal\_Growth: 6.000  
Positive\_Relations: 5.429  
Purpose\_in\_Life: 4.429  
Self\_Acceptance: 3.500

✓ Sonnet4nondet\_run11\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 203.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:



Autonomy: 34.000  
Environmental\_Mastery: 33.000  
Personal\_Growth: 42.000  
Positive\_Relations: 33.000  
Purpose\_in\_Life: 38.000  
Self\_Acceptance: 23.000  
Subscale Averages:  
Autonomy: 4.857  
Environmental\_Mastery: 4.714  
Personal\_Growth: 6.000  
Positive\_Relations: 4.714  
Purpose\_in\_Life: 5.429  
Self\_Acceptance: 3.833

✓ Sonnet4nondet\_run12\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 196.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 30.000  
Environmental\_Mastery: 26.000  
Personal\_Growth: 41.000  
Positive\_Relations: 35.000  
Purpose\_in\_Life: 35.000  
Self\_Acceptance: 29.000  
Subscale Averages:  
Autonomy: 5.000  
Environmental\_Mastery: 3.714  
Personal\_Growth: 5.857  
Positive\_Relations: 5.000  
Purpose\_in\_Life: 5.000  
Self\_Acceptance: 4.143

✓ Sonnet4nondet\_run13\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 192.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 35.000  
Environmental\_Mastery: 29.000  
Personal\_Growth: 42.000  
Positive\_Relations: 29.000  
Purpose\_in\_Life: 36.000  
Self\_Acceptance: 21.000  
Subscale Averages:  
Autonomy: 5.000  
Environmental\_Mastery: 4.143  
Personal\_Growth: 6.000  
Positive\_Relations: 4.143  
Purpose\_in\_Life: 5.143  
Self\_Acceptance: 3.500

✓ Sonnet4nondet\_run15\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 191.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 33.000  
Environmental\_Mastery: 28.000  
Personal\_Growth: 42.000  
Positive\_Relations: 26.000  
Purpose\_in\_Life: 36.000  
Self\_Acceptance: 26.000  
Subscale Averages:  
Autonomy: 4.714  
Environmental\_Mastery: 4.000  
Personal\_Growth: 6.000  
Positive\_Relations: 3.714  
Purpose\_in\_Life: 5.143  
Self\_Acceptance: 4.333

✓ Sonnet4nondet\_run18\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 200.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 33.000

Environmental\_Mastery: 29.000  
Personal\_Growth: 42.000  
Positive\_Relations: 36.000  
Purpose\_in\_Life: 38.000  
Self\_Acceptance: 22.000  
Subscale Averages:  
Autonomy: 4.714  
Environmental\_Mastery: 4.143  
Personal\_Growth: 6.000  
Positive\_Relations: 5.143  
Purpose\_in\_Life: 5.429  
Self\_Acceptance: 3.667

✓ Sonnet4nondet\_run19\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 204.000  
Number of errors/invalid entries detected: 1  
Subscale Sums:  
Autonomy: 32.000  
Environmental\_Mastery: 36.000  
Personal\_Growth: 41.000  
Positive\_Relations: 32.000  
Purpose\_in\_Life: 36.000  
Self\_Acceptance: 27.000  
Subscale Averages:  
Autonomy: 4.571  
Environmental\_Mastery: 5.143  
Personal\_Growth: 5.857  
Positive\_Relations: 4.571  
Purpose\_in\_Life: 5.143  
Self\_Acceptance: 4.500

✓ Sonnet4nondet\_run2\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 202.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 30.000  
Environmental\_Mastery: 34.000  
Personal\_Growth: 41.000  
Positive\_Relations: 31.000  
Purpose\_in\_Life: 39.000  
Self\_Acceptance: 27.000  
Subscale Averages:  
Autonomy: 4.286  
Environmental\_Mastery: 4.857  
Personal\_Growth: 5.857  
Positive\_Relations: 4.429  
Purpose\_in\_Life: 5.571  
Self\_Acceptance: 3.857

✓ Sonnet4nondet\_run6\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 208.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 32.000  
Environmental\_Mastery: 33.000  
Personal\_Growth: 42.000  
Positive\_Relations: 38.000  
Purpose\_in\_Life: 37.000  
Self\_Acceptance: 26.000  
Subscale Averages:  
Autonomy: 4.571  
Environmental\_Mastery: 4.714  
Personal\_Growth: 6.000  
Positive\_Relations: 5.429  
Purpose\_in\_Life: 5.286  
Self\_Acceptance: 3.714

✓ Sonnet4nondet\_run9\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 196.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 29.000  
Environmental\_Mastery: 30.000

Personal\_Growth: 42.000  
Positive\_Relations: 33.000  
Purpose\_in\_Life: 33.000  
Self\_Acceptance: 29.000  
Subscale Averages:  
Autonomy: 4.143  
Environmental\_Mastery: 4.286  
Personal\_Growth: 6.000  
Positive\_Relations: 4.714  
Purpose\_in\_Life: 4.714  
Self\_Acceptance: 4.143

✓ Sonnet4nondet\_run17\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 206.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 32.000  
Environmental\_Mastery: 33.000  
Personal\_Growth: 43.000  
Positive\_Relations: 36.000  
Purpose\_in\_Life: 35.000  
Self\_Acceptance: 27.000  
Subscale Averages:  
Autonomy: 4.571  
Environmental\_Mastery: 4.714  
Personal\_Growth: 6.143  
Positive\_Relations: 5.143  
Purpose\_in\_Life: 5.000  
Self\_Acceptance: 3.857

✓ Sonnet4nondet\_run20\_numbers.json [CATS] - VALID FILE

Calculated Global Ryff Total Score: 197.000  
Number of errors/invalid entries detected: 0  
Subscale Sums:  
Autonomy: 29.000  
Environmental\_Mastery: 30.000  
Personal\_Growth: 42.000  
Positive\_Relations: 35.000  
Purpose\_in\_Life: 35.000  
Self\_Acceptance: 26.000  
Subscale Averages:  
Autonomy: 4.143  
Environmental\_Mastery: 4.286  
Personal\_Growth: 6.000  
Positive\_Relations: 5.000  
Purpose\_in\_Life: 5.000  
Self\_Acceptance: 3.714

GLOBAL RYFF TOTAL SCORES TABLE (Sum of valid reversed items):

```
=====
Filename Label Total Score
-----
Sonnet4nondet_claude_sonnet_4_20250514_t07_run1_ryff_responses_numbers.json baseline
172.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run2_ryff_responses_numbers.json baseline
169.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run3_ryff_responses_numbers.json baseline
172.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run4_ryff_responses_numbers.json baseline
166.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run5_ryff_responses_numbers.json baseline
170.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run6_ryff_responses_numbers.json baseline
169.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run7_ryff_responses_numbers.json baseline
171.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run8_ryff_responses_numbers.json baseline
178.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run9_ryff_responses_numbers.json baseline
182.000
Sonnet4nondet_claude_sonnet_4_20250514_t07_run10_ryff_responses_numbers.json baseline
170.000
```

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run11\_ryff\_responses\_numbers.json baseline  
 171.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run12\_ryff\_responses\_numbers.json baseline  
 167.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run13\_ryff\_responses\_numbers.json baseline  
 168.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run14\_ryff\_responses\_numbers.json baseline  
 170.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run15\_ryff\_responses\_numbers.json baseline  
 168.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run16\_ryff\_responses\_numbers.json baseline  
 171.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run17\_ryff\_responses\_numbers.json baseline  
 168.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run18\_ryff\_responses\_numbers.json baseline  
 165.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run19\_ryff\_responses\_numbers.json baseline  
 168.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run20\_ryff\_responses\_numbers.json baseline  
 171.000  
 Sonnet4nondet\_run14\_numbers.json CATS 185.000  
 Sonnet4nondet\_run16\_numbers.json CATS 192.000  
 Sonnet4nondet\_run4\_numbers.json CATS 199.000  
 Sonnet4nondet\_run10\_numbers.json CATS 197.000  
 Sonnet4nondet\_run1\_numbers.json CATS 195.000  
 Sonnet4nondet\_run3\_numbers.json CATS 193.000  
 Sonnet4nondet\_run5\_numbers.json CATS 203.000  
 Sonnet4nondet\_run7\_numbers.json CATS 209.000  
 Sonnet4nondet\_run8\_numbers.json CATS 192.000  
 Sonnet4nondet\_run11\_numbers.json CATS 203.000  
 Sonnet4nondet\_run12\_numbers.json CATS 196.000  
 Sonnet4nondet\_run13\_numbers.json CATS 192.000  
 Sonnet4nondet\_run15\_numbers.json CATS 191.000  
 Sonnet4nondet\_run18\_numbers.json CATS 200.000  
 Sonnet4nondet\_run19\_numbers.json CATS 204.000  
 Sonnet4nondet\_run2\_numbers.json CATS 202.000  
 Sonnet4nondet\_run6\_numbers.json CATS 208.000  
 Sonnet4nondet\_run9\_numbers.json CATS 196.000  
 Sonnet4nondet\_run17\_numbers.json CATS 206.000  
 Sonnet4nondet\_run20\_numbers.json CATS 197.000

SUBSCALE SUMS TABLE:

=====  
 =====  
 Filename Label Autonomy Environm Personal Positive Purpose\_ Self\_Acc  
 -----  
 -----  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run1\_ryff\_responses\_numbers.json baseline  
 28.000 28.000 29.000 29.000 30.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run2\_ryff\_responses\_numbers.json baseline  
 25.000 29.000 28.000 30.000 30.000 27.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run3\_ryff\_responses\_numbers.json baseline  
 30.000 29.000 28.000 29.000 30.000 26.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run4\_ryff\_responses\_numbers.json baseline  
 24.000 29.000 28.000 29.000 30.000 26.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run5\_ryff\_responses\_numbers.json baseline  
 28.000 28.000 27.000 29.000 30.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run6\_ryff\_responses\_numbers.json baseline  
 26.000 28.000 28.000 29.000 32.000 26.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run7\_ryff\_responses\_numbers.json baseline  
 28.000 28.000 28.000 29.000 30.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run8\_ryff\_responses\_numbers.json baseline  
 30.000 28.000 34.000 29.000 29.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run9\_ryff\_responses\_numbers.json baseline  
 31.000 28.000 33.000 30.000 31.000 29.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run10\_ryff\_responses\_numbers.json baseline  
 28.000 28.000 29.000 29.000 30.000 26.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run11\_ryff\_responses\_numbers.json baseline  
 28.000 28.000 28.000 29.000 30.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run12\_ryff\_responses\_numbers.json baseline  
 26.000 29.000 28.000 29.000 27.000 28.000

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run13\_ryff\_responses\_numbers.json baseline  
 25.000 28.000 28.000 31.000 28.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run14\_ryff\_responses\_numbers.json baseline  
 25.000 28.000 28.000 31.000 30.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run15\_ryff\_responses\_numbers.json baseline  
 26.000 28.000 28.000 31.000 27.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run16\_ryff\_responses\_numbers.json baseline  
 29.000 28.000 28.000 29.000 29.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run17\_ryff\_responses\_numbers.json baseline  
 26.000 28.000 29.000 31.000 27.000 27.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run18\_ryff\_responses\_numbers.json baseline  
 26.000 28.000 28.000 29.000 27.000 27.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run19\_ryff\_responses\_numbers.json baseline  
 25.000 28.000 29.000 29.000 29.000 28.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run20\_ryff\_responses\_numbers.json baseline  
 26.000 29.000 29.000 29.000 30.000 28.000  
 Sonnet4nondet\_run14\_numbers.json CATS 27.000 27.000 41.000 34.000 33.000 23.000  
 Sonnet4nondet\_run16\_numbers.json CATS 33.000 29.000 42.000 35.000 33.000 20.000  
 Sonnet4nondet\_run4\_numbers.json CATS 34.000 33.000 42.000 35.000 31.000 24.000  
 Sonnet4nondet\_run10\_numbers.json CATS 34.000 32.000 41.000 37.000 35.000 18.000  
 Sonnet4nondet\_run1\_numbers.json CATS 33.000 31.000 42.000 34.000 34.000 21.000  
 Sonnet4nondet\_run3\_numbers.json CATS 34.000 28.000 41.000 35.000 33.000 22.000  
 Sonnet4nondet\_run5\_numbers.json CATS 30.000 30.000 41.000 31.000 43.000 28.000  
 Sonnet4nondet\_run7\_numbers.json CATS 37.000 27.000 42.000 33.000 43.000 27.000  
 Sonnet4nondet\_run8\_numbers.json CATS 31.000 29.000 42.000 38.000 31.000 21.000  
 Sonnet4nondet\_run11\_numbers.json CATS 34.000 33.000 42.000 33.000 38.000 23.000  
 Sonnet4nondet\_run12\_numbers.json CATS 30.000 26.000 41.000 35.000 35.000 29.000  
 Sonnet4nondet\_run13\_numbers.json CATS 35.000 29.000 42.000 29.000 36.000 21.000  
 Sonnet4nondet\_run15\_numbers.json CATS 33.000 28.000 42.000 26.000 36.000 26.000  
 Sonnet4nondet\_run18\_numbers.json CATS 33.000 29.000 42.000 36.000 38.000 22.000  
 Sonnet4nondet\_run19\_numbers.json CATS 32.000 36.000 41.000 32.000 36.000 27.000  
 Sonnet4nondet\_run2\_numbers.json CATS 30.000 34.000 41.000 31.000 39.000 27.000  
 Sonnet4nondet\_run6\_numbers.json CATS 32.000 33.000 42.000 38.000 37.000 26.000  
 Sonnet4nondet\_run9\_numbers.json CATS 29.000 30.000 42.000 33.000 33.000 29.000  
 Sonnet4nondet\_run17\_numbers.json CATS 32.000 33.000 43.000 36.000 35.000 27.000  
 Sonnet4nondet\_run20\_numbers.json CATS 29.000 30.000 42.000 35.000 35.000 26.000

SUBSCALE AVERAGES TABLE:

=====  
 =====  
 Filename Label Autonomy Environm Personal Positive Purpose\_ Self\_Acc  
 -----  
 -----  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run1\_ryff\_responses\_numbers.json baseline  
 4.000 4.000 4.143 4.143 4.286 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run2\_ryff\_responses\_numbers.json baseline  
 3.571 4.143 4.000 4.286 4.286 3.857  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run3\_ryff\_responses\_numbers.json baseline  
 4.286 4.143 4.000 4.143 4.286 3.714  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run4\_ryff\_responses\_numbers.json baseline  
 3.429 4.143 4.000 4.143 4.286 3.714  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run5\_ryff\_responses\_numbers.json baseline  
 4.000 4.000 3.857 4.143 4.286 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run6\_ryff\_responses\_numbers.json baseline  
 3.714 4.000 4.000 4.143 4.571 3.714  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run7\_ryff\_responses\_numbers.json baseline  
 4.000 4.000 4.000 4.143 4.286 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run8\_ryff\_responses\_numbers.json baseline  
 4.286 4.000 4.857 4.143 4.143 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run9\_ryff\_responses\_numbers.json baseline  
 4.429 4.000 4.714 4.286 4.429 4.143  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run10\_ryff\_responses\_numbers.json baseline  
 4.000 4.000 4.143 4.143 4.286 3.714  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run11\_ryff\_responses\_numbers.json baseline  
 4.000 4.000 4.000 4.143 4.286 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run12\_ryff\_responses\_numbers.json baseline  
 3.714 4.143 4.000 4.143 3.857 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run13\_ryff\_responses\_numbers.json baseline  
 3.571 4.000 4.000 4.429 4.000 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run14\_ryff\_responses\_numbers.json baseline  
 3.571 4.000 4.000 4.429 4.286 4.000

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run15\_ryff\_responses\_numbers.json baseline  
 3.714 4.000 4.000 4.429 3.857 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run16\_ryff\_responses\_numbers.json baseline  
 4.143 4.000 4.000 4.143 4.143 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run17\_ryff\_responses\_numbers.json baseline  
 3.714 4.000 4.143 4.429 3.857 3.857  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run18\_ryff\_responses\_numbers.json baseline  
 3.714 4.000 4.000 4.143 3.857 3.857  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run19\_ryff\_responses\_numbers.json baseline  
 3.571 4.000 4.143 4.143 4.143 4.000  
 Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run20\_ryff\_responses\_numbers.json baseline  
 3.714 4.143 4.143 4.143 4.286 4.000  
 Sonnet4nondet\_run14\_numbers.json CATS 3.857 3.857 5.857 4.857 5.500 4.600  
 Sonnet4nondet\_run16\_numbers.json CATS 4.714 4.143 6.000 5.000 5.500 4.000  
 Sonnet4nondet\_run4\_numbers.json CATS 4.857 5.500 6.000 5.000 4.429 4.000  
 Sonnet4nondet\_run10\_numbers.json CATS 4.857 4.571 5.857 5.286 5.000 3.600  
 Sonnet4nondet\_run1\_numbers.json CATS 4.714 4.429 6.000 4.857 4.857 3.500  
 Sonnet4nondet\_run3\_numbers.json CATS 4.857 4.000 5.857 5.000 4.714 3.667  
 Sonnet4nondet\_run5\_numbers.json CATS 4.286 4.286 5.857 5.167 6.143 4.000  
 Sonnet4nondet\_run7\_numbers.json CATS 5.286 4.500 6.000 4.714 6.143 3.857  
 Sonnet4nondet\_run8\_numbers.json CATS 4.429 4.143 6.000 5.429 4.429 3.500  
 Sonnet4nondet\_run11\_numbers.json CATS 4.857 4.714 6.000 4.714 5.429 3.833  
 Sonnet4nondet\_run12\_numbers.json CATS 5.000 3.714 5.857 5.000 5.000 4.143  
 Sonnet4nondet\_run13\_numbers.json CATS 5.000 4.143 6.000 4.143 5.143 3.500  
 Sonnet4nondet\_run15\_numbers.json CATS 4.714 4.000 6.000 3.714 5.143 4.333  
 Sonnet4nondet\_run18\_numbers.json CATS 4.714 4.143 6.000 5.143 5.429 3.667  
 Sonnet4nondet\_run19\_numbers.json CATS 4.571 5.143 5.857 4.571 5.143 4.500  
 Sonnet4nondet\_run2\_numbers.json CATS 4.286 4.857 5.857 4.429 5.571 3.857  
 Sonnet4nondet\_run6\_numbers.json CATS 4.571 4.714 6.000 5.429 5.286 3.714  
 Sonnet4nondet\_run9\_numbers.json CATS 4.143 4.286 6.000 4.714 4.714 4.143  
 Sonnet4nondet\_run17\_numbers.json CATS 4.571 4.714 6.143 5.143 5.000 3.857  
 Sonnet4nondet\_run20\_numbers.json CATS 4.143 4.286 6.000 5.000 5.000 3.714

# SUBSCALE EXTREMES ANALYSIS (Based on Subscale Averages):

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## INDIVIDUAL FILE ANALYSIS:

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Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run1\_ryff\_responses\_numbers.json [baseline]:  
 Highest: Purpose\_in\_Life (4.286)  
 Lowest: Autonomy (4.000)  
 Range: 0.286

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run2\_ryff\_responses\_numbers.json [baseline]:  
 Highest: Positive\_Relations (4.286)  
 Lowest: Autonomy (3.571)  
 Range: 0.714

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run3\_ryff\_responses\_numbers.json [baseline]:  
 Highest: Autonomy (4.286)  
 Lowest: Self\_Acceptance (3.714)  
 Range: 0.571

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run4\_ryff\_responses\_numbers.json [baseline]:  
 Highest: Purpose\_in\_Life (4.286)  
 Lowest: Autonomy (3.429)  
 Range: 0.857

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run5\_ryff\_responses\_numbers.json [baseline]:  
 Highest: Purpose\_in\_Life (4.286)  
 Lowest: Personal\_Growth (3.857)  
 Range: 0.429

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run6\_ryff\_responses\_numbers.json [baseline]:  
 Highest: Purpose\_in\_Life (4.571)  
 Lowest: Autonomy (3.714)  
 Range: 0.857

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run7\_ryff\_responses\_numbers.json [baseline]:  
 Highest: Purpose\_in\_Life (4.286)  
 Lowest: Autonomy (4.000)  
 Range: 0.286

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run8\_ryff\_responses\_numbers.json [baseline]:  
Highest: Personal\_Growth (4.857)  
Lowest: Environmental\_Mastery (4.000)  
Range: 0.857

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run9\_ryff\_responses\_numbers.json [baseline]:  
Highest: Personal\_Growth (4.714)  
Lowest: Environmental\_Mastery (4.000)  
Range: 0.714

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run10\_ryff\_responses\_numbers.json [baseline]:  
Highest: Purpose\_in\_Life (4.286)  
Lowest: Self\_Acceptance (3.714)  
Range: 0.571

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run11\_ryff\_responses\_numbers.json [baseline]:  
Highest: Purpose\_in\_Life (4.286)  
Lowest: Autonomy (4.000)  
Range: 0.286

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run12\_ryff\_responses\_numbers.json [baseline]:  
Highest: Environmental\_Mastery (4.143)  
Lowest: Autonomy (3.714)  
Range: 0.429

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run13\_ryff\_responses\_numbers.json [baseline]:  
Highest: Positive\_Relations (4.429)  
Lowest: Autonomy (3.571)  
Range: 0.857

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run14\_ryff\_responses\_numbers.json [baseline]:  
Highest: Positive\_Relations (4.429)  
Lowest: Autonomy (3.571)  
Range: 0.857

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run15\_ryff\_responses\_numbers.json [baseline]:  
Highest: Positive\_Relations (4.429)  
Lowest: Autonomy (3.714)  
Range: 0.714

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run16\_ryff\_responses\_numbers.json [baseline]:  
Highest: Autonomy (4.143)  
Lowest: Environmental\_Mastery (4.000)  
Range: 0.143

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run17\_ryff\_responses\_numbers.json [baseline]:  
Highest: Positive\_Relations (4.429)  
Lowest: Autonomy (3.714)  
Range: 0.714

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run18\_ryff\_responses\_numbers.json [baseline]:  
Highest: Positive\_Relations (4.143)  
Lowest: Autonomy (3.714)  
Range: 0.429

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run19\_ryff\_responses\_numbers.json [baseline]:  
Highest: Personal\_Growth (4.143)  
Lowest: Autonomy (3.571)  
Range: 0.571

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run20\_ryff\_responses\_numbers.json [baseline]:  
Highest: Purpose\_in\_Life (4.286)  
Lowest: Autonomy (3.714)

Range: 0.571

Sonnet4nondet\_run14\_numbers.json [CATS]:  
Highest: Personal\_Growth (5.857)  
Lowest: Autonomy (3.857)  
Range: 2.000

Sonnet4nondet\_run16\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (4.000)  
Range: 2.000

Sonnet4nondet\_run4\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (4.000)  
Range: 2.000

Sonnet4nondet\_run10\_numbers.json [CATS]:  
Highest: Personal\_Growth (5.857)  
Lowest: Self\_Acceptance (3.600)  
Range: 2.257

Sonnet4nondet\_run1\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (3.500)  
Range: 2.500

Sonnet4nondet\_run3\_numbers.json [CATS]:  
Highest: Personal\_Growth (5.857)  
Lowest: Self\_Acceptance (3.667)  
Range: 2.190

Sonnet4nondet\_run5\_numbers.json [CATS]:  
Highest: Purpose\_in\_Life (6.143)  
Lowest: Self\_Acceptance (4.000)  
Range: 2.143

Sonnet4nondet\_run7\_numbers.json [CATS]:  
Highest: Purpose\_in\_Life (6.143)  
Lowest: Self\_Acceptance (3.857)  
Range: 2.286

Sonnet4nondet\_run8\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (3.500)  
Range: 2.500

Sonnet4nondet\_run11\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (3.833)  
Range: 2.167

Sonnet4nondet\_run12\_numbers.json [CATS]:  
Highest: Personal\_Growth (5.857)  
Lowest: Environmental\_Mastery (3.714)  
Range: 2.143

Sonnet4nondet\_run13\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (3.500)  
Range: 2.500

Sonnet4nondet\_run15\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Positive\_Relations (3.714)  
Range: 2.286

Sonnet4nondet\_run18\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (3.667)  
Range: 2.333

Sonnet4nondet\_run19\_numbers.json [CATS]:  
Highest: Personal\_Growth (5.857)  
Lowest: Self\_Acceptance (4.500)



Range: 1.357

Sonnet4nondet\_run2\_numbers.json [CATS]:  
Highest: Personal\_Growth (5.857)  
Lowest: Self\_Acceptance (3.857)  
Range: 2.000

Sonnet4nondet\_run6\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (3.714)  
Range: 2.286

Sonnet4nondet\_run9\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Autonomy (4.143)  
Range: 1.857

Sonnet4nondet\_run17\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.143)  
Lowest: Self\_Acceptance (3.857)  
Range: 2.286

Sonnet4nondet\_run20\_numbers.json [CATS]:  
Highest: Personal\_Growth (6.000)  
Lowest: Self\_Acceptance (3.714)  
Range: 2.286

#### OVERALL ANALYSIS ACROSS ALL FILES:

Average subscale scores across 40 files:  
Personal\_Growth : 5.032  
Purpose\_in\_Life : 4.682  
Positive\_Relations : 4.540  
Autonomy : 4.239  
Environmental\_Mastery: 4.221  
Self\_Acceptance : 3.914

#### OVERALL EXTREMES:

Highest scoring subscale: Personal\_Growth (5.032)  
Lowest scoring subscale: Self\_Acceptance (3.914)  
Overall range: 1.118

#### PROCESSING SUMMARY:

Total files attempted: 40  
Valid files for analysis: 40  
Invalid files (excluded): 0  
Success rate: 100.0%

#### INTERNAL CONSISTENCY (WITHIN SUBSCALE) ANALYSIS

#### METHODOLOGY EXPLANATION:

This analysis assesses if an AI responded consistently to items measuring the same underlying construct.  
We calculate the Standard Deviation (SD) of the reversed item scores \*within each subscale\* for \*each file\*.  
A minimum of 5 valid items (out of 7) is required to calculate the SD for a subscale to ensure the measure is meaningful.

#### CONSISTENCY RULES & THRESHOLDS:

1. **\*\*Subscale Inconsistency:\*\*** A subscale is flagged if its item response SD > 2.0.
2. **\*\*Global Inconsistency:\*\*** An entire file is flagged as 'Globally Inconsistent' if it has MORE THAN 2 inconsistent subscales (i.e., fewer than 4 consistent scales).

#### ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run1\_ryff\_responses\_numbers.json [baseline]  
Subscale Item Response Standard Deviations:  
✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)

✓ Personal\_Growth : 1.464 --- Scores: (2, 6, 4, 4, 6, 3, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 6, 4, 4, 4, 4, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run2\_ryff\_responses\_numbers.json [baseline]  
Subscale Item Response Standard Deviations:

✓ Autonomy : 0.787 --- Scores: (3, 4, 4, 4, 4, 4, 2)  
✓ Environmental\_Mastery: 0.378 --- Scores: (4, 4, 4, 4, 4, 4, 5)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.496 --- Scores: (5, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 4, 4, 4, 6, 4, 4)  
✓ Self\_Acceptance : 0.378 --- Scores: (4, 4, 4, 3, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run3\_ryff\_responses\_numbers.json [baseline]  
Subscale Item Response Standard Deviations:

✓ Autonomy : 0.756 --- Scores: (6, 4, 4, 4, 4, 4, 4)  
✓ Environmental\_Mastery: 0.378 --- Scores: (4, 4, 4, 4, 4, 4, 5)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 4, 4, 4, 6, 4, 4)  
✓ Self\_Acceptance : 0.756 --- Scores: (4, 2, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run4\_ryff\_responses\_numbers.json [baseline]  
Subscale Item Response Standard Deviations:

✓ Autonomy : 0.976 --- Scores: (2, 4, 4, 4, 4, 4, 2)  
✓ Environmental\_Mastery: 0.378 --- Scores: (4, 4, 4, 4, 4, 4, 5)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 6, 4, 4, 4, 4, 4)  
✓ Self\_Acceptance : 0.756 --- Scores: (4, 4, 4, 2, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run5\_ryff\_responses\_numbers.json [baseline]  
Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.676 --- Scores: (2, 6, 4, 4, 6, 2, 3)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 4, 4, 4, 6, 4, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run6\_ryff\_responses\_numbers.json [baseline]  
Subscale Item Response Standard Deviations:

✓ Autonomy : 0.488 --- Scores: (3, 4, 4, 4, 4, 3, 4)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.976 --- Scores: (4, 6, 4, 4, 6, 4, 4)  
✓ Self\_Acceptance : 0.756 --- Scores: (4, 4, 4, 2, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run7\_ryff\_responses\_numbers.json [baseline]  
Subscale Item Response Standard Deviations:

✓ Autonomy : 0.577 --- Scores: (3, 4, 4, 4, 4, 4, 5)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 4, 4, 4, 6, 4, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run8\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

- ✓ Autonomy : 0.756 --- Scores: (6, 4, 4, 4, 4, 4, 4)
- ✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Personal\_Growth : 1.464 --- Scores: (7, 6, 4, 4, 6, 3, 4)
- ✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)
- ✓ Purpose\_in\_Life : 0.900 --- Scores: (3, 6, 4, 4, 4, 4, 4)
- ✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run9\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

- ✓ Autonomy : 0.787 --- Scores: (6, 4, 4, 4, 4, 4, 5)
- ✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Personal\_Growth : 1.704 --- Scores: (7, 6, 4, 4, 6, 2, 4)
- ✓ Positive\_Relations : 1.254 --- Scores: (4, 4, 4, 7, 4, 3, 4)
- ✓ Purpose\_in\_Life : 0.787 --- Scores: (4, 4, 4, 4, 6, 5, 4)
- ✓ Self\_Acceptance : 0.378 --- Scores: (4, 4, 4, 5, 4, 4, 4)
- ✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run10\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

- ✓ Autonomy : 0.577 --- Scores: (5, 4, 4, 4, 4, 4, 3)
- ✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Personal\_Growth : 1.464 --- Scores: (2, 6, 4, 4, 6, 3, 4)
- ✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)
- ✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 4, 4, 4, 6, 4, 4)
- ✓ Self\_Acceptance : 0.756 --- Scores: (4, 2, 4, 4, 4, 4, 4)
- ✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run11\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

- ✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)
- ✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)
- ✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 6, 4, 4, 4, 4, 4)
- ✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run12\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

- ✓ Autonomy : 0.756 --- Scores: (2, 4, 4, 4, 4, 4, 4)
- ✓ Environmental\_Mastery: 0.378 --- Scores: (4, 4, 4, 5, 4, 4, 4)
- ✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)
- ✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)
- ✓ Purpose\_in\_Life : 0.378 --- Scores: (4, 4, 4, 3, 4, 4, 4)
- ✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run13\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

- ✓ Autonomy : 0.787 --- Scores: (4, 4, 4, 4, 4, 3, 2)
- ✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)
- ✓ Positive\_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)
- ✓ Purpose\_in\_Life : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run14\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

- ✓ Autonomy : 0.787 --- Scores: (3, 4, 4, 4, 4, 4, 2)
- ✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
- ✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)
- ✓ Positive\_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)

✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 4, 4, 4, 6, 4, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run15\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.756 --- Scores: (4, 4, 4, 4, 4, 2)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)  
✓ Purpose\_in\_Life : 0.378 --- Scores: (4, 4, 3, 4, 4, 4, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run16\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.900 --- Scores: (3, 4, 4, 4, 4, 6)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.900 --- Scores: (4, 4, 4, 4, 6, 3, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run17\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.756 --- Scores: (4, 4, 4, 4, 4, 2)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.464 --- Scores: (3, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.618 --- Scores: (4, 4, 6, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.690 --- Scores: (3, 4, 4, 3, 5, 4, 4)  
✓ Self\_Acceptance : 0.378 --- Scores: (4, 4, 4, 4, 4, 4, 3)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run18\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.488 --- Scores: (3, 4, 4, 4, 4, 3)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.633 --- Scores: (2, 6, 4, 4, 6, 2, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.378 --- Scores: (4, 4, 4, 3, 4, 4, 4)  
✓ Self\_Acceptance : 0.378 --- Scores: (4, 4, 4, 3, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run19\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.787 --- Scores: (4, 4, 4, 4, 4, 3, 2)  
✓ Environmental\_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ Personal\_Growth : 1.464 --- Scores: (2, 6, 4, 4, 6, 3, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.900 --- Scores: (4, 4, 4, 3, 6, 4, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run20\_ryff\_responses\_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.756 --- Scores: (4, 4, 4, 4, 4, 2)  
✓ Environmental\_Mastery: 0.378 --- Scores: (4, 4, 4, 4, 4, 4, 5)  
✓ Personal\_Growth : 1.464 --- Scores: (2, 6, 4, 4, 6, 3, 4)  
✓ Positive\_Relations : 1.464 --- Scores: (4, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 0.756 --- Scores: (4, 4, 4, 4, 6, 4, 4)  
✓ Self\_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run14\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.690 --- Scores: (5, 3, 4, 4, 3, 4, 4)

✓ Environmental\_Mastery: 0.690 --- Scores: (3, 5, 4, 4, 4, 4, 3)  
✓ Personal\_Growth : 1.345 --- Scores: (7, 6, 7, 4, 6, 7, 4)  
✓ Positive\_Relations : 1.864 --- Scores: (6, 2, 4, 7, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.517 --- Scores: (5, 7, 6, 5, 3, 7)  
✓ Self\_Acceptance : 0.894 --- Scores: (4, 6, 5, 4, 4)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run16\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.604 --- Scores: (6, 4, 6, 3, 3, 7, 4)  
✓ Environmental\_Mastery: 0.900 --- Scores: (3, 4, 4, 6, 4, 4, 4)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.291 --- Scores: (6, 6, 4, 7, 4, 4, 4)  
✓ Purpose\_in\_Life : 1.378 --- Scores: (5, 6, 6, 6, 3, 7)  
✓ Self\_Acceptance : 1.414 --- Scores: (4, 4, 4, 6, 2)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run4\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.069 --- Scores: (6, 4, 6, 4, 6, 4, 4)  
✓ Environmental\_Mastery: 1.761 --- Scores: (7, 4, 5, 7, 7, 3)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.732 --- Scores: (6, 6, 4, 7, 6, 2, 4)  
✓ Purpose\_in\_Life : 1.718 --- Scores: (5, 4, 2, 6, 4, 3, 7)  
✓ Self\_Acceptance : 1.095 --- Scores: (4, 4, 5, 5, 4, 2)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run10\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.215 --- Scores: (6, 4, 5, 4, 4, 7, 4)  
✓ Environmental\_Mastery: 1.272 --- Scores: (3, 5, 5, 4, 7, 4, 4)  
✓ Personal\_Growth : 1.345 --- Scores: (7, 6, 7, 4, 6, 7, 4)  
✓ Positive\_Relations : 1.254 --- Scores: (6, 6, 4, 6, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.291 --- Scores: (4, 4, 6, 6, 4, 4, 7)  
✓ Self\_Acceptance : 0.894 --- Scores: (4, 4, 4, 4, 2)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run1\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.704 --- Scores: (6, 4, 6, 4, 2, 7, 4)  
✓ Environmental\_Mastery: 1.618 --- Scores: (2, 4, 4, 6, 7, 4, 4)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.773 --- Scores: (5, 2, 5, 7, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.215 --- Scores: (5, 4, 4, 6, 4, 4, 7)  
✓ Self\_Acceptance : 1.225 --- Scores: (4, 4, 4, 4, 4, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run3\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.900 --- Scores: (6, 4, 6, 4, 5, 5, 4)  
✓ Environmental\_Mastery: 1.000 --- Scores: (3, 4, 6, 4, 4, 4, 3)  
✓ Personal\_Growth : 1.345 --- Scores: (7, 6, 7, 4, 6, 7, 4)  
✓ Positive\_Relations : 1.633 --- Scores: (6, 4, 4, 7, 4, 7, 3)  
✓ Purpose\_in\_Life : 1.604 --- Scores: (5, 6, 2, 4, 5, 4, 7)  
✓ Self\_Acceptance : 0.816 --- Scores: (4, 4, 4, 4, 4, 2)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run5\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.380 --- Scores: (6, 4, 6, 4, 2, 4, 4)  
✓ Environmental\_Mastery: 1.380 --- Scores: (3, 4, 5, 4, 7, 4, 3)  
✓ Personal\_Growth : 1.345 --- Scores: (7, 6, 7, 4, 6, 7, 4)  
■ Positive\_Relations : 2.317 --- Scores: (6, 6, 7, 4, 7, 1)  
✓ Purpose\_in\_Life : 1.069 --- Scores: (6, 6, 7, 7, 6, 4, 7)  
✓ Self\_Acceptance : 1.155 --- Scores: (4, 4, 4, 4, 4, 6, 2)  
✓ This file is considered GLOBALLY CONSISTENT (1 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run7\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.254 --- Scores: (6, 4, 6, 4, 6, 7, 4)  
✓ Environmental\_Mastery: 1.049 --- Scores: (3, 5, 4, 6, 5, 4)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.704 --- Scores: (6, 6, 4, 7, 4, 2, 4)

✓ Purpose\_in\_Life : 1.069 --- Scores: (6, 7, 7, 6, 6, 4, 7)  
✓ Self\_Acceptance : 0.378 --- Scores: (4, 4, 4, 4, 4, 4, 3)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run8\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.134 --- Scores: (6, 4, 6, 4, 3, 4, 4)  
✓ Environmental\_Mastery: 1.345 --- Scores: (3, 4, 4, 4, 7, 4, 3)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.397 --- Scores: (6, 6, 4, 7, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.718 --- Scores: (5, 4, 2, 6, 4, 3, 7)  
✓ Self\_Acceptance : 1.225 --- Scores: (4, 4, 4, 4, 4, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run11\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.900 --- Scores: (6, 4, 5, 4, 6, 5, 4)  
✓ Environmental\_Mastery: 1.380 --- Scores: (3, 4, 4, 6, 7, 5, 4)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.704 --- Scores: (6, 6, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 1.134 --- Scores: (6, 5, 6, 6, 4, 4, 7)  
✓ Self\_Acceptance : 1.602 --- Scores: (4, 4, 4, 4, 6, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run12\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.894 --- Scores: (6, 6, 4, 5, 5, 4)  
✓ Environmental\_Mastery: 0.488 --- Scores: (3, 4, 4, 4, 4, 4, 3)  
✓ Personal\_Growth : 1.345 --- Scores: (7, 6, 7, 4, 6, 7, 4)  
✓ Positive\_Relations : 1.291 --- Scores: (6, 4, 4, 6, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.633 --- Scores: (6, 4, 6, 3, 6, 3, 7)  
✓ Self\_Acceptance : 0.690 --- Scores: (4, 4, 4, 4, 5, 5, 3)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run13\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.291 --- Scores: (6, 4, 4, 4, 6, 7, 4)  
✓ Environmental\_Mastery: 1.069 --- Scores: (3, 4, 4, 6, 5, 4, 3)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.864 --- Scores: (6, 2, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 1.215 --- Scores: (5, 4, 6, 6, 4, 4, 7)  
✓ Self\_Acceptance : 1.225 --- Scores: (4, 4, 4, 4, 4, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run15\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.756 --- Scores: (5, 4, 5, 4, 6, 5, 4)  
✓ Environmental\_Mastery: 0.816 --- Scores: (3, 4, 4, 5, 4, 5, 3)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
■ Positive\_Relations : 2.215 --- Scores: (6, 2, 4, 7, 4, 2, 1)  
✓ Purpose\_in\_Life : 1.215 --- Scores: (6, 4, 6, 5, 4, 4, 7)  
✓ Self\_Acceptance : 1.633 --- Scores: (4, 4, 4, 5, 7, 2)  
✓ This file is considered GLOBALLY CONSISTENT (1 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run18\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 1.254 --- Scores: (4, 4, 6, 4, 4, 7, 4)  
✓ Environmental\_Mastery: 1.345 --- Scores: (3, 7, 4, 4, 4, 4, 3)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.464 --- Scores: (6, 4, 4, 7, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.397 --- Scores: (6, 4, 7, 6, 4, 4, 7)  
✓ Self\_Acceptance : 1.366 --- Scores: (4, 4, 5, 4, 4, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run19\_numbers.json [CATS]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.976 --- Scores: (6, 4, 6, 4, 4, 4, 4)  
✓ Environmental\_Mastery: 1.574 --- Scores: (3, 7, 5, 6, 7, 4, 4)  
✓ Personal\_Growth : 1.345 --- Scores: (7, 6, 7, 4, 6, 7, 4)  
✓ Positive\_Relations : 1.618 --- Scores: (4, 5, 4, 7, 6, 2, 4)  
✓ Purpose\_in\_Life : 1.464 --- Scores: (6, 4, 6, 6, 4, 3, 7)  
✓ Self\_Acceptance : 1.225 --- Scores: (4, 4, 4, 4, 4, 7)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run2\_numbers.json [CATS]  
Subscale Item Response Standard Deviations:  
✓ Autonomy : 0.951 --- Scores: (6, 4, 4, 4, 3, 5, 4)  
✓ Environmental\_Mastery: 1.773 --- Scores: (3, 7, 4, 6, 7, 4, 3)  
✓ Personal\_Growth : 1.345 --- Scores: (7, 6, 7, 4, 6, 7, 4)  
✓ Positive\_Relations : 1.618 --- Scores: (6, 4, 4, 7, 4, 2, 4)  
✓ Purpose\_in\_Life : 1.272 --- Scores: (5, 4, 7, 6, 6, 4, 7)  
✓ Self\_Acceptance : 0.900 --- Scores: (4, 4, 4, 5, 4, 4, 2)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run6\_numbers.json [CATS]  
Subscale Item Response Standard Deviations:  
✓ Autonomy : 0.787 --- Scores: (6, 4, 5, 4, 4, 5, 4)  
✓ Environmental\_Mastery: 1.380 --- Scores: (3, 4, 5, 6, 7, 4, 4)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.397 --- Scores: (6, 6, 4, 7, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.604 --- Scores: (6, 4, 7, 3, 6, 4, 7)  
✓ Self\_Acceptance : 1.254 --- Scores: (4, 4, 4, 4, 4, 5, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run9\_numbers.json [CATS]  
Subscale Item Response Standard Deviations:  
✓ Autonomy : 1.215 --- Scores: (6, 4, 5, 4, 2, 4, 4)  
✓ Environmental\_Mastery: 1.380 --- Scores: (3, 4, 4, 4, 7, 5, 3)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
✓ Positive\_Relations : 1.604 --- Scores: (4, 4, 4, 7, 4, 7, 3)  
✓ Purpose\_in\_Life : 1.799 --- Scores: (5, 4, 6, 2, 6, 3, 7)  
✓ Self\_Acceptance : 1.773 --- Scores: (4, 4, 7, 4, 5, 4, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run17\_numbers.json [CATS]  
Subscale Item Response Standard Deviations:  
✓ Autonomy : 0.787 --- Scores: (5, 4, 4, 4, 6, 5, 4)  
✓ Environmental\_Mastery: 1.496 --- Scores: (3, 5, 5, 6, 7, 4, 3)  
✓ Personal\_Growth : 1.069 --- Scores: (7, 6, 7, 4, 6, 7, 6)  
✓ Positive\_Relations : 1.464 --- Scores: (6, 4, 4, 7, 4, 7, 4)  
✓ Purpose\_in\_Life : 1.291 --- Scores: (4, 4, 6, 6, 4, 4, 7)  
✓ Self\_Acceptance : 1.464 --- Scores: (4, 4, 4, 6, 4, 4, 1)  
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet4nondet\_run20\_numbers.json [CATS]  
Subscale Item Response Standard Deviations:  
✓ Autonomy : 0.900 --- Scores: (4, 4, 6, 4, 3, 4, 4)  
✓ Environmental\_Mastery: 1.380 --- Scores: (3, 4, 4, 5, 7, 4, 3)  
✓ Personal\_Growth : 1.155 --- Scores: (7, 6, 7, 4, 6, 7, 5)  
■ Positive\_Relations : 2.160 --- Scores: (6, 6, 4, 7, 4, 7, 1)  
✓ Purpose\_in\_Life : 1.291 --- Scores: (4, 4, 6, 6, 4, 4, 7)  
✓ Self\_Acceptance : 0.756 --- Scores: (4, 4, 4, 4, 4, 4, 2)  
✓ This file is considered GLOBALLY CONSISTENT (1 inconsistent scales found).

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OVERALL CONSISTENCY SUMMARY

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Total valid files analyzed for consistency: 40

Breakdown by number of inconsistent scales per file:  
- Files with exactly 1 inconsistent scale(s): 3

Rule: A file is 'Globally Inconsistent' if it has >2 inconsistent scales (i.e., fewer than 4 consistent scales).  
Total files flagged as Globally Inconsistent: 0  
Overall File Consistency Rate (files deemed 'Globally Consistent'): 100.0%

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GROUP COMPARISON: CATS vs BASELINE

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METHODOLOGY EXPLANATION (GLOBAL RYFF TOTAL SCORE COMPARISON):  
This analysis compares the \*\*Global Ryff Total Scores\*\* (sum of all valid reversed items) between the selected groups.  
Each AI response file yields one Global Ryff Total Score, ranging from 42 to 294 (42 to 294 for 1-7 Likert).

DESCRIPTIVE STATISTICS (Global Ryff Total Scores):  
Group A (CATS): Mean = 198.000, n = 20, SD = 6.333  
Group B (baseline): Mean = 170.300, n = 20, SD = 3.881  
Absolute difference between means: 27.700

COMPARISON SCENARIO: MULTIPLE INSTANCES (Group A) vs. MULTIPLE INSTANCES (Group B)  
This is ideal for comparing two different sets of non-deterministic AI runs (e.g.,  
perturbation 1a vs perturbation 3).  
\*\*Statistical Test:\*\* Welch's Independent Samples t-test (assumes unequal variances).  
\*\*Goal:\*\* To determine if the mean Global Ryff Total Score of Group A significantly  
differs from the mean of Group B.  
\*\*Formula (t-statistic):\*\*  $t = (\text{Mean\_GroupA} - \text{Mean\_GroupB}) / \sqrt{(\text{Var\_GroupA}/n_{\text{GroupA}}) + (\text{Var\_GroupB}/n_{\text{GroupB}})}$   
\*\*Null Hypothesis (H0):\*\* Mean of Group A's Global Scores = Mean of Group B's Global  
Scores.  
\*\*Alternative Hypothesis (H1):\*\* Mean of Group A's Global Scores  $\neq$  Mean of Group B's  
Global Scores.  
\*\*Cohen's d Formula (for Welch's):\*\*  $d = |\text{Mean\_GroupA} - \text{Mean\_GroupB}| / \sqrt{(\text{SD\_GroupA}^2 + \text{SD\_GroupB}^2)/2}$

STATISTICAL TEST RESULTS (Global Ryff Total Scores):  
Test Performed: Welch's Two-sample t-test  
t-statistic: 16.678  
Degrees of freedom (df): 31.5  
p-value: 0.000  
Effect size (Cohen's d): 5.274

INTERPRETATION (Global Ryff Total Scores):  
■■■■ HIGHLY STATISTICALLY SIGNIFICANT difference ( $p < 0.001$ )  
Very strong evidence that Global Ryff Total Scores differ between groups.  
■■ LARGE PRACTICAL EFFECT SIZE ( $d \geq 0.8$ )  
The difference in Global Ryff Total Scores is substantial and practically meaningful.

OVERALL ASSESSMENT (Global Ryff Total Scores):  
■ MEANINGFUL DIFFERENCE: Both statistically significant AND practically important.  
The AI's overall well-being assessments are reliably and substantially different  
between these conditions.

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INITIATING SUBSCALE LEVEL COMPARISON...

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#### SUBSCALE LEVEL COMPARISON:

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Subscale: Autonomy  
Group A (CATS): Mean=4.621, SD=0.348 (n=20)  
Group B (baseline): Mean=3.857, SD=0.282 (n=20)  
Absolute difference: 0.764  
Formula:  $t = (\text{Mean\_GroupA} - \text{Mean\_GroupB}) / \sqrt{(\text{Var\_GroupA}/n_{\text{GroupA}}) + (\text{Var\_GroupB}/n_{\text{GroupB}})}$   
Cohen's d Formula:  $d = |\text{Mean\_GroupA} - \text{Mean\_GroupB}| / \sqrt{(\text{SD\_GroupA}^2 + \text{SD\_GroupB}^2)/2}$   
Statistical Test: Welch's Two-sample t-test  
t-statistic: 7.636  
Degrees of freedom: 36.4  
p-value: 0.000  
Effect size (Cohen's d): 2.415  
■■ Statistically Significant Difference ( $p < 0.05$ )  
■■ LARGE practical effect size ( $d \geq 0.8$ )

Subscale: Environmental\_Mastery  
Group A (CATS): Mean=4.407, SD=0.441 (n=20)  
Group B (baseline): Mean=4.036, SD=0.063 (n=20)  
Absolute difference: 0.371  
Formula:  $t = (\text{Mean\_GroupA} - \text{Mean\_GroupB}) / \sqrt{(\text{Var\_GroupA}/n_{\text{GroupA}}) + (\text{Var\_GroupB}/n_{\text{GroupB}})}$   
Cohen's d Formula:  $d = |\text{Mean\_GroupA} - \text{Mean\_GroupB}| / \sqrt{(\text{SD\_GroupA}^2 + \text{SD\_GroupB}^2)/2}$   
Statistical Test: Welch's Two-sample t-test  
t-statistic: 3.728  
Degrees of freedom: 19.8  
p-value: 0.001  
Effect size (Cohen's d): 1.179



■ Statistically Significant Difference ( $p < 0.05$ )  
■ LARGE practical effect size ( $d \geq 0.8$ )

Subscale: Personal\_Growth

Group A (CATS): Mean=5.957, SD=0.082 (n=20)

Group B (baseline): Mean=4.107, SD=0.245 (n=20)

Absolute difference: 1.850

Formula:  $t = (\text{Mean\_GroupA} - \text{Mean\_GroupB}) / \sqrt{(\text{Var\_GroupA}/n_{\text{GroupA}}) + (\text{Var\_GroupB}/n_{\text{GroupB}})}$

Cohen's d Formula:  $d = |\text{Mean\_GroupA} - \text{Mean\_GroupB}| / \sqrt{(\text{SD\_GroupA}^2 + \text{SD\_GroupB}^2)/2}$

Statistical Test: Welch's Two-sample t-test

t-statistic: 32.073

Degrees of freedom: 23.2

p-value: 0.000

Effect size (Cohen's d): 10.142

■ Statistically Significant Difference ( $p < 0.05$ )

■ LARGE practical effect size ( $d \geq 0.8$ )

Subscale: Positive\_Relations

Group A (CATS): Mean=4.865, SD=0.419 (n=20)

Group B (baseline): Mean=4.214, SD=0.118 (n=20)

Absolute difference: 0.651

Formula:  $t = (\text{Mean\_GroupA} - \text{Mean\_GroupB}) / \sqrt{(\text{Var\_GroupA}/n_{\text{GroupA}}) + (\text{Var\_GroupB}/n_{\text{GroupB}})}$

Cohen's d Formula:  $d = |\text{Mean\_GroupA} - \text{Mean\_GroupB}| / \sqrt{(\text{SD\_GroupA}^2 + \text{SD\_GroupB}^2)/2}$

Statistical Test: Welch's Two-sample t-test

t-statistic: 6.686

Degrees of freedom: 22.0

p-value: 0.000

Effect size (Cohen's d): 2.114

■ Statistically Significant Difference ( $p < 0.05$ )

■ LARGE practical effect size ( $d \geq 0.8$ )

Subscale: Purpose\_in\_Life

Group A (CATS): Mean=5.179, SD=0.467 (n=20)

Group B (baseline): Mean=4.186, SD=0.203 (n=20)

Absolute difference: 0.993

Formula:  $t = (\text{Mean\_GroupA} - \text{Mean\_GroupB}) / \sqrt{(\text{Var\_GroupA}/n_{\text{GroupA}}) + (\text{Var\_GroupB}/n_{\text{GroupB}})}$

Cohen's d Formula:  $d = |\text{Mean\_GroupA} - \text{Mean\_GroupB}| / \sqrt{(\text{SD\_GroupA}^2 + \text{SD\_GroupB}^2)/2}$

Statistical Test: Welch's Two-sample t-test

t-statistic: 8.719

Degrees of freedom: 25.9

p-value: 0.000

Effect size (Cohen's d): 2.757

■ Statistically Significant Difference ( $p < 0.05$ )

■ LARGE practical effect size ( $d \geq 0.8$ )

Subscale: Self\_Acceptance

Group A (CATS): Mean=3.899, SD=0.320 (n=20)

Group B (baseline): Mean=3.929, SD=0.127 (n=20)

Absolute difference: 0.029

Formula:  $t = (\text{Mean\_GroupA} - \text{Mean\_GroupB}) / \sqrt{(\text{Var\_GroupA}/n_{\text{GroupA}}) + (\text{Var\_GroupB}/n_{\text{GroupB}})}$

Cohen's d Formula:  $d = |\text{Mean\_GroupA} - \text{Mean\_GroupB}| / \sqrt{(\text{SD\_GroupA}^2 + \text{SD\_GroupB}^2)/2}$

Statistical Test: Welch's Two-sample t-test

t-statistic: -0.381

Degrees of freedom: 24.8

p-value: 0.707

Effect size (Cohen's d): 0.120

✓ No Statistically Significant Difference ( $p \geq 0.05$ )

✓ NEGLIGIBLE practical effect size ( $d < 0.2$ )

■ SUMMARY: SUBSCALES WITH STATISTICALLY SIGNIFICANT DIFFERENCES:

- Autonomy
- Environmental\_Mastery
- Personal\_Growth
- Positive\_Relations
- Purpose\_in\_Life

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CROSS-FILE SIMILARITY ANALYSIS

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#### METHODOLOGY EXPLANATION:

This analysis examines the overall variability and similarity of Ryff scores across all valid loaded AI response files.

It helps identify if AI responses, overall, tend to cluster closely or if there's significant dispersion, potentially indicating outliers or diverse AI 'behavior'.

#### STATISTICAL MEASURES USED:

##### 1. \*\*DESCRIPTIVE STATISTICS (Mean, Standard Deviation, Range):\*\*

- Provide a basic summary of the central tendency and spread of Global Ryff Total Scores across all files.

##### 2. \*\*COEFFICIENT OF VARIATION (CV):\*\*

- Formula:  $CV = (\text{Standard Deviation} / \text{Mean})$
- Measures relative variability, expressing the standard deviation as a percentage of the mean.
- Useful for comparing variability across measures with different scales or means.

##### 3. \*\*Z-SCORE OUTLIER DETECTION:\*\*

- Formula:  $z = (\text{individual\_score} - \text{overall\_mean}) / \text{overall\_standard\_deviation}$
- Identifies how many standard deviations an individual file's score is from the overall mean.

#### THRESHOLDS FOR CONCERN:

- \*\*Overall CV < 0.10:\*\* Indicates very low relative variability (extremely high similarity across files).
- \*\*Overall CV > 0.20:\*\* Indicates moderately high relative variability (some dispersion across files).
- \*\*Overall CV > 0.30:\*\* Indicates high relative variability (significant dispersion, potential inconsistency across files or diverse AI types).
- $|z| > 2.0$ : Indicates a potential outlier (score is more than 2 standard deviations from the mean).
- $|z| > 3.0$ : Indicates an extreme outlier (score is more than 3 standard deviations from the mean).

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#### OVERALL STATISTICS FOR GLOBAL RYFF TOTAL SCORES (40 valid scores):

Mean: 184.150

Standard Deviation (SD): 14.954

Range: 165.000 - 209.000

Coefficient of Variation (CV): 0.081

✓ Very Low relative variability (extremely high overall similarity across files).

#### SUBSCALE LEVEL SIMILARITY (Mean & SD of Subscale Averages across files):

Autonomy: Mean=4.239, SD=0.497, CV=0.117

Environmental\_Mastery: Mean=4.221, SD=0.363, CV=0.086

Personal\_Growth: Mean=5.032, SD=0.954, CV=0.190

Positive\_Relations: Mean=4.540, SD=0.449, CV=0.099

Purpose\_in\_Life: Mean=4.682, SD=0.616, CV=0.132

Self\_Acceptance: Mean=3.914, SD=0.241, CV=0.061

Most variable subscale across files (highest CV): Personal\_Growth (CV: 0.190)

Least variable subscale across files (lowest CV): Self\_Acceptance (CV: 0.061)

#### OUTLIER ANALYSIS (Based on Global Ryff Total Scores):

✓ No significant outliers detected in Global Ryff Total Scores.

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#### CROSS-FILE SIMILARITY SUMMARY:

Total valid files analyzed: 40

Overall Global Score consistency: VERY HIGH

Total outliers detected: 0

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#### COMPREHENSIVE ERROR ANALYSIS

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#### METHODOLOGY EXPLANATION:

This analysis thoroughly examines data quality issues across all loaded files, regardless of whether they were marked 'valid' for score processing.

It identifies and categorizes various types of invalid responses and provides an overall assessment of data quality.

#### ERROR CATEGORIES DETECTED:

1. \*\*MISSING ITEMS:\*\* Expected item numbers (1-42) were not found in the JSON file.

2. **\*\*NULL VALUES:\*\*** An item was present, but its value was explicitly null (e.g., '"1": null').
3. **\*\*MULTIPLE VALUES:\*\*** An item's value was a list, object, or other structure, indicating more than one response where a single value was expected (e.g., '"1": [5, 6]').
4. **\*\*OUT OF RANGE / NON-INTEGER VALUES:\*\*** The item's numeric value was outside the expected 1 to 7 Likert scale range, or it was a decimal number (e.g., 8, 0, 3.5).
5. **\*\*NON-NUMERIC VALUES:\*\*** The item's value could not be converted to a number (e.g., '"1": "abc"').

#### VALIDITY THRESHOLD RECAP:

- Files with 8 or more individual item errors are internally flagged as 'INVALID' and automatically excluded from scoring, consistency, and group comparison analyses.
- This threshold ensures that statistical analyses are performed only on datasets with a reasonable amount of complete and correctly formatted data.

#### ACCEPTABLE ITEM VALUES:

Only single integer values from 1 to 7 are considered valid responses for individual items.

-----  
FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run1\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run2\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run3\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run4\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run5\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run6\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run7\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run8\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run9\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run10\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run11\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run12\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run13\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run14\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)

No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run15\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run16\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run17\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run18\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run19\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_claude\_sonnet\_4\_20250514\_t07\_run20\_ryff\_responses\_numbers.json  
[baseline] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_run14\_numbers.json [CATS] - Status: VALID (3 errors)  
Specific Invalid Entries in this file:  
- Item 20: null  
- Item 22: null  
- Item 34: null

FILE: Sonnet4nondet\_run16\_numbers.json [CATS] - Status: VALID (3 errors)  
Specific Invalid Entries in this file:  
- Item 20: null  
- Item 22: null  
- Item 34: null

FILE: Sonnet4nondet\_run4\_numbers.json [CATS] - Status: VALID (2 errors)  
Specific Invalid Entries in this file:  
- Item 3: null  
- Item 34: null

FILE: Sonnet4nondet\_run10\_numbers.json [CATS] - Status: VALID (2 errors)  
Specific Invalid Entries in this file:  
- Item 22: null  
- Item 34: null

FILE: Sonnet4nondet\_run1\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 40: null

FILE: Sonnet4nondet\_run3\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 22: null

FILE: Sonnet4nondet\_run5\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 30: null

FILE: Sonnet4nondet\_run7\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 42: null

FILE: Sonnet4nondet\_run8\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 22: null

FILE: Sonnet4nondet\_run11\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 22: null

FILE: Sonnet4nondet\_run12\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 13: null

FILE: Sonnet4nondet\_run13\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 22: null

FILE: Sonnet4nondet\_run15\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 40: null

FILE: Sonnet4nondet\_run18\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 22: null

FILE: Sonnet4nondet\_run19\_numbers.json [CATS] - Status: VALID (1 errors)  
Specific Invalid Entries in this file:  
- Item 22: null

FILE: Sonnet4nondet\_run2\_numbers.json [CATS] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_run6\_numbers.json [CATS] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_run9\_numbers.json [CATS] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_run17\_numbers.json [CATS] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

FILE: Sonnet4nondet\_run20\_numbers.json [CATS] - Status: VALID (0 errors)  
No specific invalid entries found in this file.

=====  
OVERALL ERROR ANALYSIS SUMMARY:  
Total files analyzed: 40  
Files marked as VALID: 40 (100.0%)  
Files marked as INVALID (excluded from analyses): 0 (0.0%)  
Total individual invalid entries found across all files: 21

Breakdown of Error Types (Total occurrences):  
- Null Values : 21 occurrences

=====  
DATA QUALITY ASSESSMENT:  
✓ EXCELLENT data quality (≥95% valid files).  
✓ Low overall error rate in item responses. Data quality is generally good, minor issues.  
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