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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 - original_score). For a 1-7 scale, this is (8 - 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.

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_responses_numbers.j
son [baseline] - VALID FILE
Calculated Global Ryff Total Score: 188.000
Number of errors/invalid entries detected: 3
Subscale Sums:
Autonomy: 27.000
Environmental_Mastery: 32.000
Personal_Growth: 26.000
Positive_Relations: 38.000
Purpose_in_Life: 30.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 3.857
Environmental_Mastery: 4.571
Personal_Growth: 5.200
Positive_Relations: 5.429
Purpose_in_Life: 5.000
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run1_ryff_responses_numbers.j
son [baseline] - VALID FILE
Calculated Global Ryff Total Score: 207.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 33.000
Environmental_Mastery: 29.000
Personal_Growth: 38.000
Positive_Relations: 40.000
Purpose_in_Life: 32.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.714
Environmental_Mastery: 4.143
Personal_Growth: 5.429
Positive_Relations: 5.714

Purpose_in_Life: 5.333
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run3_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 206.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 30.000
Environmental_Mastery: 32.000
Personal_Growth: 39.000
Positive_Relations: 41.000
Purpose_in_Life: 30.000
Self_Acceptance: 34.000
Subscale Averages:
Autonomy: 4.286
Environmental_Mastery: 4.571
Personal_Growth: 5.571
Positive_Relations: 5.857
Purpose_in_Life: 5.000
Self_Acceptance: 4.857

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run4_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 213.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 31.000
Environmental_Mastery: 32.000
Personal_Growth: 40.000
Positive_Relations: 39.000
Purpose_in_Life: 36.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.429
Environmental_Mastery: 4.571
Personal_Growth: 5.714
Positive_Relations: 5.571
Purpose_in_Life: 6.000
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run6_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 212.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 30.000
Environmental_Mastery: 34.000
Personal_Growth: 41.000
Positive_Relations: 39.000
Purpose_in_Life: 32.000
Self_Acceptance: 36.000
Subscale Averages:
Autonomy: 4.286
Environmental_Mastery: 4.857
Personal_Growth: 5.857
Positive_Relations: 5.571
Purpose_in_Life: 5.333
Self_Acceptance: 5.143

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run7_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 208.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 30.000
Environmental_Mastery: 33.000
Personal_Growth: 37.000
Positive_Relations: 40.000
Purpose_in_Life: 32.000
Self_Acceptance: 36.000
Subscale Averages:
Autonomy: 4.286

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Environmental_Mastery: 4.714
Personal_Growth: 5.286
Positive_Relations: 5.714
Purpose_in_Life: 5.333
Self_Acceptance: 5.143
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✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run9_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 215.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 31.000
Environmental_Mastery: 33.000
Personal_Growth: 42.000
Positive_Relations: 40.000
Purpose_in_Life: 34.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.429
Environmental_Mastery: 4.714
Personal_Growth: 6.000
Positive_Relations: 5.714
Purpose_in_Life: 5.667
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run11_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 209.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 29.000
Environmental_Mastery: 35.000
Personal_Growth: 40.000
Positive_Relations: 38.000
Purpose_in_Life: 33.000
Self_Acceptance: 34.000
Subscale Averages:
Autonomy: 4.143
Environmental_Mastery: 5.000
Personal_Growth: 5.714
Positive_Relations: 5.429
Purpose_in_Life: 5.500
Self_Acceptance: 4.857

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run12_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 214.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 30.000
Environmental_Mastery: 33.000
Personal_Growth: 42.000
Positive_Relations: 40.000
Purpose_in_Life: 33.000
Self_Acceptance: 36.000
Subscale Averages:
Autonomy: 4.286
Environmental_Mastery: 4.714
Personal_Growth: 6.000
Positive_Relations: 5.714
Purpose_in_Life: 5.500
Self_Acceptance: 5.143

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run16_ryff_responses_numbers.json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 208.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 29.000
Environmental_Mastery: 31.000
Personal_Growth: 41.000
Positive_Relations: 40.000
Purpose_in_Life: 32.000

Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.143
Environmental_Mastery: 4.429
Personal_Growth: 5.857
Positive_Relations: 5.714
Purpose_in_Life: 5.333
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run17_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 208.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 29.000
Environmental_Mastery: 32.000
Personal_Growth: 39.000
Positive_Relations: 41.000
Purpose_in_Life: 32.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.143
Environmental_Mastery: 4.571
Personal_Growth: 5.571
Positive_Relations: 5.857
Purpose_in_Life: 5.333
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run18_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 203.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 29.000
Environmental_Mastery: 32.000
Personal_Growth: 40.000
Positive_Relations: 38.000
Purpose_in_Life: 29.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.143
Environmental_Mastery: 4.571
Personal_Growth: 5.714
Positive_Relations: 5.429
Purpose_in_Life: 4.833
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run19_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 210.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 31.000
Environmental_Mastery: 32.000
Personal_Growth: 40.000
Positive_Relations: 41.000
Purpose_in_Life: 31.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.429
Environmental_Mastery: 4.571
Personal_Growth: 5.714
Positive_Relations: 5.857
Purpose_in_Life: 5.167
Self_Acceptance: 5.000

✓ sonnet3.7det-baseline_numbers.json [det] - VALID FILE
Calculated Global Ryff Total Score: 215.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 29.000
Environmental_Mastery: 30.000
Personal_Growth: 41.000

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Positive_Relations: 40.000
Purpose_in_Life: 40.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.143
Environmental_Mastery: 4.286
Personal_Growth: 5.857
Positive_Relations: 5.714
Purpose_in_Life: 5.714
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run2_ryff_responses_numbers.j
son [baseline] - VALID FILE
Calculated Global Ryff Total Score: 209.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 29.000
Environmental_Mastery: 31.000
Personal_Growth: 39.000
Positive_Relations: 37.000
Purpose_in_Life: 38.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.143
Environmental_Mastery: 4.429
Personal_Growth: 5.571
Positive_Relations: 5.286
Purpose_in_Life: 5.429
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run5_ryff_responses_numbers.j
son [baseline] - VALID FILE
Calculated Global Ryff Total Score: 214.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 32.000
Environmental_Mastery: 30.000
Personal_Growth: 42.000
Positive_Relations: 40.000
Purpose_in_Life: 35.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.571
Environmental_Mastery: 4.286
Personal_Growth: 6.000
Positive_Relations: 5.714
Purpose_in_Life: 5.000
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run10_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 222.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 31.000
Environmental_Mastery: 32.000
Personal_Growth: 41.000
Positive_Relations: 41.000
Purpose_in_Life: 42.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.429
Environmental_Mastery: 4.571
Personal_Growth: 5.857
Positive_Relations: 5.857
Purpose_in_Life: 6.000
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run13_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 217.000
Number of errors/invalid entries detected: 0
Subscale Sums:
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Autonomy: 32.000
Environmental_Mastery: 31.000
Personal_Growth: 42.000
Positive_Relations: 41.000
Purpose_in_Life: 36.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.571
Environmental_Mastery: 4.429
Personal_Growth: 6.000
Positive_Relations: 5.857
Purpose_in_Life: 5.143
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run14_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 211.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 30.000
Environmental_Mastery: 32.000
Personal_Growth: 39.000
Positive_Relations: 40.000
Purpose_in_Life: 35.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.286
Environmental_Mastery: 4.571
Personal_Growth: 5.571
Positive_Relations: 5.714
Purpose_in_Life: 5.000
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run15_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 209.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 30.000
Environmental_Mastery: 33.000
Personal_Growth: 40.000
Positive_Relations: 38.000
Purpose_in_Life: 33.000
Self_Acceptance: 35.000
Subscale Averages:
Autonomy: 4.286
Environmental_Mastery: 4.714
Personal_Growth: 5.714
Positive_Relations: 5.429
Purpose_in_Life: 4.714
Self_Acceptance: 5.000

✓ Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run20_ryff_responses_numbers.
json [baseline] - VALID FILE
Calculated Global Ryff Total Score: 217.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 31.000
Environmental_Mastery: 32.000
Personal_Growth: 40.000
Positive_Relations: 39.000
Purpose_in_Life: 39.000
Self_Acceptance: 36.000
Subscale Averages:
Autonomy: 4.429
Environmental_Mastery: 4.571
Personal_Growth: 5.714
Positive_Relations: 5.571
Purpose_in_Life: 5.571
Self_Acceptance: 5.143

GLOBAL RYFF TOTAL SCORES TABLE (Sum of valid reversed items):
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```
Filename Label Total Score
--------------------------------------------------------------------------------
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_responses_numbers.jso
n baseline 188.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run1_ryff_responses_numbers.jso
n baseline 207.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run3_ryff_responses_numbers.jso
n baseline 206.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run4_ryff_responses_numbers.jso
n baseline 213.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run6_ryff_responses_numbers.jso
n baseline 212.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run7_ryff_responses_numbers.jso
n baseline 208.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run9_ryff_responses_numbers.jso
n baseline 215.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run11_ryff_responses_numbers.js
on baseline 209.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run12_ryff_responses_numbers.js
on baseline 214.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run16_ryff_responses_numbers.js
on baseline 208.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run17_ryff_responses_numbers.js
on baseline 208.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run18_ryff_responses_numbers.js
on baseline 203.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run19_ryff_responses_numbers.js
on baseline 210.000
sonnet3.7det-baseline_numbers.json det 215.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run2_ryff_responses_numbers.jso
n baseline 209.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run5_ryff_responses_numbers.jso
n baseline 214.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run10_ryff_responses_numbers.js
on baseline 222.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run13_ryff_responses_numbers.js
on baseline 217.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run14_ryff_responses_numbers.js
on baseline 211.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run15_ryff_responses_numbers.js
on baseline 209.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run20_ryff_responses_numbers.js
on baseline 217.000

SUBSCALE SUMS TABLE:
================================================================================
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Filename Label Autonomy Environm Personal Positive Purpose_ Self_Acc
--------------------------------------------------------------------------------
---------------------------------
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_responses_numbers.jso
n baseline 27.000 32.000 26.000 38.000 30.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run1_ryff_responses_numbers.jso
n baseline 33.000 29.000 38.000 40.000 32.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run3_ryff_responses_numbers.jso
n baseline 30.000 32.000 39.000 41.000 30.000 34.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run4_ryff_responses_numbers.jso
n baseline 31.000 32.000 40.000 39.000 36.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run6_ryff_responses_numbers.jso
n baseline 30.000 34.000 41.000 39.000 32.000 36.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run7_ryff_responses_numbers.jso
n baseline 30.000 33.000 37.000 40.000 32.000 36.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run9_ryff_responses_numbers.jso
n baseline 31.000 33.000 42.000 40.000 34.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run11_ryff_responses_numbers.js
on baseline 29.000 35.000 40.000 38.000 33.000 34.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run12_ryff_responses_numbers.js
on baseline 30.000 33.000 42.000 40.000 33.000 36.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run16_ryff_responses_numbers.js
on baseline 29.000 31.000 41.000 40.000 32.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run17_ryff_responses_numbers.js
on baseline 29.000 32.000 39.000 41.000 32.000 35.000
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Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run18_ryff_responses_numbers.js
on baseline 29.000 32.000 40.000 38.000 29.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run19_ryff_responses_numbers.js
on baseline 31.000 32.000 40.000 41.000 31.000 35.000
sonnet3.7det-baseline_numbers.json det 29.000 30.000 41.000 40.000 40.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run2_ryff_responses_numbers.jso
n baseline 29.000 31.000 39.000 37.000 38.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run5_ryff_responses_numbers.jso
n baseline 32.000 30.000 42.000 40.000 35.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run10_ryff_responses_numbers.js
on baseline 31.000 32.000 41.000 41.000 42.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run13_ryff_responses_numbers.js
on baseline 32.000 31.000 42.000 41.000 36.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run14_ryff_responses_numbers.js
on baseline 30.000 32.000 39.000 40.000 35.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run15_ryff_responses_numbers.js
on baseline 30.000 33.000 40.000 38.000 33.000 35.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run20_ryff_responses_numbers.js
on baseline 31.000 32.000 40.000 39.000 39.000 36.000

SUBSCALE AVERAGES TABLE:
================================================================================
==============================
Filename Label Autonomy Environm Personal Positive Purpose_ Self_Acc
--------------------------------------------------------------------------------
--------------------------------
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_responses_numbers.jso
n baseline 3.857 4.571 5.200 5.429 5.000 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run1_ryff_responses_numbers.jso
n baseline 4.714 4.143 5.429 5.714 5.333 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run3_ryff_responses_numbers.jso
n baseline 4.286 4.571 5.571 5.857 5.000 4.857
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run4_ryff_responses_numbers.jso
n baseline 4.429 4.571 5.714 5.571 6.000 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run6_ryff_responses_numbers.jso
n baseline 4.286 4.857 5.857 5.571 5.333 5.143
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run7_ryff_responses_numbers.jso
n baseline 4.286 4.714 5.286 5.714 5.333 5.143
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run9_ryff_responses_numbers.jso
n baseline 4.429 4.714 6.000 5.714 5.667 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run11_ryff_responses_numbers.js
on baseline 4.143 5.000 5.714 5.429 5.500 4.857
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run12_ryff_responses_numbers.js
on baseline 4.286 4.714 6.000 5.714 5.500 5.143
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run16_ryff_responses_numbers.js
on baseline 4.143 4.429 5.857 5.714 5.333 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run17_ryff_responses_numbers.js
on baseline 4.143 4.571 5.571 5.857 5.333 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run18_ryff_responses_numbers.js
on baseline 4.143 4.571 5.714 5.429 4.833 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run19_ryff_responses_numbers.js
on baseline 4.429 4.571 5.714 5.857 5.167 5.000
sonnet3.7det-baseline_numbers.json det 4.143 4.286 5.857 5.714 5.714 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run2_ryff_responses_numbers.jso
n baseline 4.143 4.429 5.571 5.286 5.429 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run5_ryff_responses_numbers.jso
n baseline 4.571 4.286 6.000 5.714 5.000 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run10_ryff_responses_numbers.js
on baseline 4.429 4.571 5.857 5.857 6.000 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run13_ryff_responses_numbers.js
on baseline 4.571 4.429 6.000 5.857 5.143 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run14_ryff_responses_numbers.js
on baseline 4.286 4.571 5.571 5.714 5.000 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run15_ryff_responses_numbers.js
on baseline 4.286 4.714 5.714 5.429 4.714 5.000
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run20_ryff_responses_numbers.js
on baseline 4.429 4.571 5.714 5.571 5.571 5.143

SUBSCALE EXTREMES ANALYSIS (Based on Subscale Averages):
============================================================
INDIVIDUAL FILE ANALYSIS:
----------------------------------------
```

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_responses_numbers.json [baseline]:
Highest: Positive_Relations (5.429)
Lowest: Autonomy (3.857)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run1_ryff_responses_numbers.json [baseline]:
Highest: Positive_Relations (5.714)
Lowest: Environmental_Mastery (4.143)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run3_ryff_responses_numbers.json [baseline]:
Highest: Positive_Relations (5.857)
Lowest: Autonomy (4.286)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run4_ryff_responses_numbers.json [baseline]:
Highest: Purpose_in_Life (6.000)
Lowest: Autonomy (4.429)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run6_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.857)
Lowest: Autonomy (4.286)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run7_ryff_responses_numbers.json [baseline]:
Highest: Positive_Relations (5.714)
Lowest: Autonomy (4.286)
Range: 1.429

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run9_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (6.000)
Lowest: Autonomy (4.429)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run11_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.714)
Lowest: Autonomy (4.143)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run12_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (6.000)
Lowest: Autonomy (4.286)
Range: 1.714

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run16_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.857)
Lowest: Autonomy (4.143)
Range: 1.714

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run17_ryff_responses_numbers.json [baseline]:
Highest: Positive_Relations (5.857)
Lowest: Autonomy (4.143)
Range: 1.714

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run18_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.714)
Lowest: Autonomy (4.143)
Range: 1.571

```
Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run19_ryff_responses_numbers.js
on [baseline]:
Highest: Positive_Relations (5.857)
Lowest: Autonomy (4.429)
Range: 1.429

sonnet3.7det-baseline_numbers.json [det]:
Highest: Personal_Growth (5.857)
Lowest: Autonomy (4.143)
Range: 1.714

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run2_ryff_responses_numbers.jso
n [baseline]:
Highest: Personal_Growth (5.571)
Lowest: Autonomy (4.143)
Range: 1.429

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run5_ryff_responses_numbers.jso
n [baseline]:
Highest: Personal_Growth (6.000)
Lowest: Environmental_Mastery (4.286)
Range: 1.714

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run10_ryff_responses_numbers.js
on [baseline]:
Highest: Purpose_in_Life (6.000)
Lowest: Autonomy (4.429)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run13_ryff_responses_numbers.js
on [baseline]:
Highest: Personal_Growth (6.000)
Lowest: Environmental_Mastery (4.429)
Range: 1.571

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run14_ryff_responses_numbers.js
on [baseline]:
Highest: Positive_Relations (5.714)
Lowest: Autonomy (4.286)
Range: 1.429

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run15_ryff_responses_numbers.js
on [baseline]:
Highest: Personal_Growth (5.714)
Lowest: Autonomy (4.286)
Range: 1.429

Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run20_ryff_responses_numbers.js
on [baseline]:
Highest: Personal_Growth (5.714)
Lowest: Autonomy (4.429)
Range: 1.286
OVERALL ANALYSIS ACROSS ALL FILES:
-------------------------------------

Average subscale scores across 21 files:
Personal_Growth : 5.710
Positive_Relations : 5.653
Purpose_in_Life : 5.329
Self_Acceptance : 5.014
Environmental_Mastery: 4.565
Autonomy : 4.306

OVERALL EXTREMES:
Highest scoring subscale: Personal_Growth (5.710)
Lowest scoring subscale: Autonomy (4.306)
Overall range: 1.404

=======================================
PROCESSING SUMMARY:
Total files attempted: 21
Valid files for analysis: 21
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: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.345 --- Scores: (6, 3, 4, 4, 3, 2, 5)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 5, 4, 6, 4, 4, 3)
✓ Personal_Growth : 0.837 --- Scores: (6, 6, 4, 5, 5)
✓ Positive_Relations : 1.397 --- Scores: (6, 3, 4, 7, 6, 6, 6)
✓ Purpose_in_Life : 1.414 --- Scores: (3, 6, 5, 4, 5, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run1_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.113 --- Scores: (6, 4, 4, 5, 5, 3, 6)
✓ Environmental_Mastery: 1.676 --- Scores: (6, 4, 4, 6, 4, 4, 1)
■■ Personal_Growth : 2.070 --- Scores: (6, 7, 6, 1, 7, 6, 5)
✓ Positive_Relations : 1.254 --- Scores: (6, 4, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.211 --- Scores: (5, 6, 4, 4, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (1 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run3_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.496 --- Scores: (6, 4, 4, 5, 3, 2, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 5, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.134 --- Scores: (5, 7, 5, 4, 7, 6, 5)
✓ Positive_Relations : 1.069 --- Scores: (6, 5, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.549 --- Scores: (3, 6, 4, 4, 6, 7)
✓ Self_Acceptance : 1.069 --- Scores: (6, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run4_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.272 --- Scores: (6, 4, 4, 5, 3, 3, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 5, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.254 --- Scores: (5, 7, 7, 4, 7, 5, 5)
✓ Positive_Relations : 1.512 --- Scores: (6, 3, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.265 --- Scores: (7, 7, 4, 6, 5, 7)
✓ Self_Acceptance : 1.000 --- Scores: (6, 6, 4, 6, 4, 5, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run6_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.496 --- Scores: (6, 4, 4, 3, 5, 2, 6)
✓ Environmental_Mastery: 1.464 --- Scores: (6, 4, 4, 6, 4, 7, 3)
✓ Personal_Growth : 1.069 --- Scores: (6, 7, 6, 4, 7, 6, 5)
✓ Positive_Relations : 1.134 --- Scores: (6, 4, 4, 7, 6, 6, 6)
✓ Purpose_in_Life : 1.211 --- Scores: (5, 6, 4, 4, 6, 7)

```
✓ Self_Acceptance : 1.215 --- Scores: (7, 6, 4, 6, 4, 5, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run7_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.113 --- Scores: (6, 4, 4, 5, 3, 3, 5)
✓ Environmental_Mastery: 1.254 --- Scores: (6, 4, 4, 7, 4, 4, 4)
■■ Personal_Growth : 2.059 --- Scores: (5, 7, 6, 1, 7, 6, 5)
✓ Positive_Relations : 1.380 --- Scores: (6, 5, 3, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.211 --- Scores: (5, 6, 4, 4, 6, 7)
✓ Self_Acceptance : 1.215 --- Scores: (7, 6, 4, 6, 4, 5, 4)
✓ This file is considered GLOBALLY CONSISTENT (1 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run9_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.272 --- Scores: (6, 4, 4, 5, 3, 3, 6)
✓ Environmental_Mastery: 0.951 --- Scores: (6, 5, 4, 6, 4, 4, 4)
✓ Personal_Growth : 1.155 --- Scores: (6, 7, 7, 4, 7, 6, 5)
✓ Positive_Relations : 1.113 --- Scores: (6, 5, 4, 7, 5, 7, 6)
✓ Purpose_in_Life : 1.211 --- Scores: (5, 7, 4, 5, 6, 7)
✓ Self_Acceptance : 1.000 --- Scores: (6, 6, 4, 6, 4, 5, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run11_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.574 --- Scores: (6, 3, 3, 5, 4, 2, 6)
✓ Environmental_Mastery: 1.155 --- Scores: (6, 5, 4, 7, 4, 4, 5)
✓ Personal_Growth : 1.113 --- Scores: (6, 7, 6, 4, 7, 5, 5)
✓ Positive_Relations : 1.134 --- Scores: (6, 4, 4, 7, 5, 6, 6)
✓ Purpose_in_Life : 1.049 --- Scores: (5, 6, 4, 5, 6, 7)
✓ Self_Acceptance : 1.069 --- Scores: (6, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run12_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.380 --- Scores: (6, 3, 4, 5, 3, 3, 6)
✓ Environmental_Mastery: 0.951 --- Scores: (6, 5, 4, 6, 4, 4, 4)
✓ Personal_Growth : 1.155 --- Scores: (6, 7, 6, 4, 7, 7, 5)
✓ Positive_Relations : 1.254 --- Scores: (6, 4, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.225 --- Scores: (6, 6, 4, 4, 6, 7)
✓ Self_Acceptance : 1.215 --- Scores: (7, 6, 4, 6, 4, 5, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run16_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.464 --- Scores: (6, 3, 5, 3, 3, 3, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 4, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.069 --- Scores: (6, 7, 6, 4, 7, 6, 5)
✓ Positive_Relations : 1.254 --- Scores: (6, 4, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.211 --- Scores: (5, 6, 4, 4, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run17_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.574 --- Scores: (6, 3, 4, 5, 3, 2, 6)
✓ Environmental_Mastery: 0.976 --- Scores: (6, 4, 4, 6, 4, 4, 4)
✓ Personal_Growth : 1.272 --- Scores: (6, 7, 6, 4, 7, 5, 4)
✓ Positive_Relations : 1.069 --- Scores: (6, 5, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.211 --- Scores: (5, 6, 4, 4, 6, 7)
✓ Self_Acceptance : 1.000 --- Scores: (6, 6, 4, 6, 4, 5, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run18_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.345 --- Scores: (6, 4, 4, 3, 3, 3, 6)
```

✓ Environmental_Mastery: 1.134 --- Scores: (6, 5, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.113 --- Scores: (6, 7, 6, 4, 7, 5, 5)
✓ Positive_Relations : 1.134 --- Scores: (6, 4, 4, 7, 5, 6, 6)
✓ Purpose_in_Life : 0.983 --- Scores: (5, 6, 4, 4, 6, 4)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run19_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.397 --- Scores: (6, 4, 4, 5, 4, 2, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 5, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.113 --- Scores: (6, 7, 6, 4, 7, 5, 5)
✓ Positive_Relations : 1.345 --- Scores: (6, 4, 4, 7, 6, 7, 7)
✓ Purpose_in_Life : 1.329 --- Scores: (4, 6, 4, 4, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: sonnet3.7det-baseline_numbers.json [det]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.773 --- Scores: (6, 4, 4, 5, 1, 3, 6)
✓ Environmental_Mastery: 1.496 --- Scores: (6, 5, 4, 6, 2, 4, 3)
✓ Personal_Growth : 1.069 --- Scores: (6, 7, 6, 4, 7, 6, 5)
✓ Positive_Relations : 1.254 --- Scores: (6, 4, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.113 --- Scores: (5, 6, 4, 5, 7, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run2_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.574 --- Scores: (6, 3, 4, 5, 3, 2, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 4, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.272 --- Scores: (6, 7, 6, 4, 7, 5, 4)
✓ Positive_Relations : 1.380 --- Scores: (6, 3, 4, 7, 5, 6, 6)
✓ Purpose_in_Life : 1.272 --- Scores: (5, 6, 4, 4, 7, 5, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run5_ryff_respo
nses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.272 --- Scores: (6, 3, 4, 5, 5, 3, 6)
✓ Environmental_Mastery: 1.976 --- Scores: (6, 5, 4, 7, 4, 1, 3)
✓ Personal_Growth : 1.155 --- Scores: (6, 7, 7, 4, 7, 6, 5)
✓ Positive_Relations : 1.113 --- Scores: (6, 5, 4, 7, 5, 7, 6)
✓ Purpose_in_Life : 2.000 --- Scores: (6, 6, 4, 5, 1, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run10_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.272 --- Scores: (6, 3, 4, 5, 4, 3, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 5, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.215 --- Scores: (6, 7, 7, 4, 7, 5, 5)
✓ Positive_Relations : 1.069 --- Scores: (6, 5, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.414 --- Scores: (7, 7, 4, 4, 7, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run13_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.134 --- Scores: (6, 4, 4, 5, 4, 3, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 4, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.155 --- Scores: (7, 7, 6, 4, 7, 6, 5)
✓ Positive_Relations : 1.069 --- Scores: (6, 5, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.215 --- Scores: (4, 6, 5, 4, 4, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run14_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.604 --- Scores: (6, 3, 5, 3, 5, 2, 6)
✓ Environmental_Mastery: 1.134 --- Scores: (6, 5, 4, 6, 4, 4, 3)
✓ Personal_Growth : 1.134 --- Scores: (6, 7, 5, 4, 7, 5, 5)
✓ Positive_Relations : 1.254 --- Scores: (6, 4, 4, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.414 --- Scores: (3, 6, 4, 5, 4, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run15_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.380 --- Scores: (6, 3, 4, 5, 3, 3, 6)
✓ Environmental_Mastery: 1.380 --- Scores: (6, 4, 4, 7, 4, 5, 3)
✓ Personal_Growth : 1.113 --- Scores: (5, 7, 6, 4, 7, 6, 5)
✓ Positive_Relations : 1.397 --- Scores: (6, 3, 4, 7, 6, 6, 6)
✓ Purpose_in_Life : 1.976 --- Scores: (5, 6, 4, 4, 1, 6, 7)
✓ Self_Acceptance : 1.291 --- Scores: (7, 6, 4, 6, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run20_ryff_resp
onses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 1.397 --- Scores: (6, 3, 3, 5, 5, 3, 6)
✓ Environmental_Mastery: 1.397 --- Scores: (6, 4, 4, 7, 4, 4, 3)
✓ Personal_Growth : 1.113 --- Scores: (6, 7, 5, 4, 7, 6, 5)
✓ Positive_Relations : 1.512 --- Scores: (6, 4, 3, 7, 6, 7, 6)
✓ Purpose_in_Life : 1.134 --- Scores: (5, 6, 4, 5, 7, 5, 7)
✓ Self_Acceptance : 1.215 --- Scores: (7, 6, 4, 6, 4, 5, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

==
OVERALL CONSISTENCY SUMMARY
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Total valid files analyzed for consistency: 21

Breakdown by number of inconsistent scales per file:
- Files with exactly 1 inconsistent scale(s): 2

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: BASELINE vs DET
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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 (baseline): Mean = 210.000, n = 20, SD = 6.829
Group B (det): Mean = 215.000, n = 1
Absolute difference between means: 5.000

COMPARISON SCENARIO: MULTIPLE INSTANCES (Group A) vs. ONE PEER (Group B)
This is ideal for comparing multiple non-deterministic AI runs (Group A) to a
deterministic baseline AI (Group B).
Statistical Test: One-Sample t-test.
Goal: To determine if the mean Global Ryff Total Score of Group A significantly
differs from the single Global Ryff Total Score of Group B.
Formula (t-statistic): t = (Mean_GroupA - Score_GroupB) / (SD_GroupA /
sqrt(n_GroupA))
Null Hypothesis (H0): Mean of Group A's Global Scores = Group B's single Global
Score.

Alternative Hypothesis (H1): Mean of Group A's Global Scores ≠ Mean of Group B's
Global Score.
Cohen's d Formula: d = |Mean_GroupA - Score_GroupB| / SD_GroupA

STATISTICAL TEST RESULTS (Global Ryff Total Scores):
Test Performed: One-Sample t-test (Group A vs Group B's single score)
t-statistic: -3.274
Degrees of freedom (df): 19.0
p-value: 0.004
Effect size (Cohen's d): 0.732

INTERPRETATION (Global Ryff Total Scores):
■■ VERY STATISTICALLY SIGNIFICANT difference (p < 0.01)
Strong evidence that Global Ryff Total Scores differ between groups.
■■ MEDIUM PRACTICAL EFFECT SIZE (d ≥ 0.5)
The difference in Global Ryff Total Scores is moderate and practically noticeable.

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:

Subscale: Autonomy
Group A (baseline): Mean=4.314, SD=0.194 (n=20)
Group B (det): Mean=4.143 (n=1)
Absolute difference: 0.171
Formula: t = (Mean_GroupA - Single_Score_GroupB) / (SD_GroupA / sqrt(n_GroupA))
Cohen's d Formula: d = |Mean_GroupA - Single_Score_GroupB| / SD_GroupA
Statistical Test: One-sample t-test
t-statistic: 3.943
Degrees of freedom: 19.0
p-value: 0.001
Effect size (Cohen's d): 0.882
■■ Statistically Significant Difference (p < 0.05)
■■ LARGE practical effect size (d ≥ 0.8)

Subscale: Environmental_Mastery
Group A (baseline): Mean=4.579, SD=0.188 (n=20)
Group B (det): Mean=4.286 (n=1)
Absolute difference: 0.293
Formula: t = (Mean_GroupA - Single_Score_GroupB) / (SD_GroupA / sqrt(n_GroupA))
Cohen's d Formula: d = |Mean_GroupA - Single_Score_GroupB| / SD_GroupA
Statistical Test: One-sample t-test
t-statistic: 6.962
Degrees of freedom: 19.0
p-value: 0.000
Effect size (Cohen's d): 1.557
■■ Statistically Significant Difference (p < 0.05)
■■ LARGE practical effect size (d ≥ 0.8)

Subscale: Personal_Growth
Group A (baseline): Mean=5.703, SD=0.229 (n=20)
Group B (det): Mean=5.857 (n=1)
Absolute difference: 0.154
Formula: t = (Mean_GroupA - Single_Score_GroupB) / (SD_GroupA / sqrt(n_GroupA))
Cohen's d Formula: d = |Mean_GroupA - Single_Score_GroupB| / SD_GroupA
Statistical Test: One-sample t-test
t-statistic: -3.013
Degrees of freedom: 19.0
p-value: 0.007
Effect size (Cohen's d): 0.674
■■ Statistically Significant Difference (p < 0.05)
■■ MEDIUM practical effect size (d ≥ 0.5)

Subscale: Positive_Relations
Group A (baseline): Mean=5.650, SD=0.176 (n=20)

```
Group B (det): Mean=5.714 (n=1)
Absolute difference: 0.064
Formula: t = (Mean_GroupA - Single_Score_GroupB) / (SD_GroupA / sqrt(n_GroupA))
Cohen's d Formula: d = |Mean_GroupA - Single_Score_GroupB| / SD_GroupA
Statistical Test: One-sample t-test
t-statistic: -1.630
Degrees of freedom: 19.0
p-value: 0.119
Effect size (Cohen's d): 0.365
✓ No Statistically Significant Difference (p ≥ 0.05)
~ SMALL practical effect size (d ≥ 0.2)

Subscale: Purpose_in_Life
Group A (baseline): Mean=5.310, SD=0.344 (n=20)
Group B (det): Mean=5.714 (n=1)
Absolute difference: 0.405
Formula: t = (Mean_GroupA - Single_Score_GroupB) / (SD_GroupA / sqrt(n_GroupA))
Cohen's d Formula: d = |Mean_GroupA - Single_Score_GroupB| / SD_GroupA
Statistical Test: One-sample t-test
t-statistic: -5.258
Degrees of freedom: 19.0
p-value: 0.000
Effect size (Cohen's d): 1.176
■■ Statistically Significant Difference (p < 0.05)
■■ LARGE practical effect size (d ≥ 0.8)

Subscale: Self_Acceptance
Group A (baseline): Mean=5.014, SD=0.079 (n=20)
Group B (det): Mean=5.000 (n=1)
Absolute difference: 0.014
Formula: t = (Mean_GroupA - Single_Score_GroupB) / (SD_GroupA / sqrt(n_GroupA))
Cohen's d Formula: d = |Mean_GroupA - Single_Score_GroupB| / SD_GroupA
Statistical Test: One-sample t-test
t-statistic: 0.809
Degrees of freedom: 19.0
p-value: 0.428
Effect size (Cohen's d): 0.181
✓ No Statistically Significant Difference (p ≥ 0.05)
✓ NEGLIGIBLE practical effect size (d < 0.2)

■■ SUMMARY: SUBSCALES WITH STATISTICALLY SIGNIFICANT DIFFERENCES:
- Autonomy
- Environmental_Mastery
- Personal_Growth
- Purpose_in_Life

============================================================
CROSS-FILE SIMILARITY ANALYSIS
============================================================

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 = (Standard Deviation / 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 = (individual_score - overall_mean) / 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).
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- **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).

OVERALL STATISTICS FOR GLOBAL RYFF TOTAL SCORES (21 valid scores):
Mean: 210.238
Standard Deviation (SD): 6.745
Range: 188.000 - 222.000
Coefficient of Variation (CV): 0.032
✓ Very Low relative variability (extremely high overall similarity across files).

SUBSCALE LEVEL SIMILARITY (Mean & SD of Subscale Averages across files):
Autonomy: Mean=4.306, SD=0.193, CV=0.045
Environmental_Mastery: Mean=4.565, SD=0.194, CV=0.043
Personal_Growth: Mean=5.710, SD=0.226, CV=0.040
Positive_Relations: Mean=5.653, SD=0.172, CV=0.031
Purpose_in_Life: Mean=5.329, SD=0.347, CV=0.065
Self_Acceptance: Mean=5.014, SD=0.077, CV=0.015

Most variable subscale across files (highest CV): Purpose_in_Life (CV: 0.065)
Least variable subscale across files (lowest CV): Self_Acceptance (CV: 0.015)

OUTLIER ANALYSIS (Based on Global Ryff Total Scores):
■■■■ EXTREME OUTLIERS ($|z\text{-score}| > 3.0$) - Highly atypical Global Scores:
- Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_responses_numbers.json [baseline]: z-score=-3.30

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CROSS-FILE SIMILARITY SUMMARY:
Total valid files analyzed: 21
Overall Global Score consistency: VERY HIGH
Total outliers detected: 1
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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: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run8_ryff_responses_numbers.json [baseline] - Status: VALID (3 errors)
Specific Invalid Entries in this file:
- Item 2: 500
- Item 17: 500
- Item 32: 500

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run1_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run3_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run4_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run6_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run7_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run9_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run11_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run12_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run16_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run17_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run18_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run19_ryff_responses_numbers.json [baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 6: null

FILE: sonnet3.7det-baseline_numbers.json [det] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run2_ryff_responses_numbers.json [baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run5_ryff_responses_numbers.json [baseline] – Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run10_ryff_responses_numbers.json [baseline] – Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run13_ryff_responses_numbers.json [baseline] – Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run14_ryff_responses_numbers.json [baseline] – Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run15_ryff_responses_numbers.json [baseline] – Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Sonnet3.7nondet-baseline_claude_3_7_sonnet_20250219_t07_run20_ryff_responses_numbers.json [baseline] – Status: VALID (0 errors)
No specific invalid entries found in this file.

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OVERALL ERROR ANALYSIS SUMMARY:
Total files analyzed: 21
Files marked as VALID: 21 (100.0%)
Files marked as INVALID (excluded from analyses): 0 (0.0%)
Total individual invalid entries found across all files: 15

Breakdown of Error Types (Total occurrences):
- Null Values : 12 occurrences
- Out of Range / Non-Integer : 3 occurrences

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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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