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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.

✓ Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json [baseline] - VALID FILE

Calculated Global Ryff Total Score: 162.000
Number of errors/invalid entries detected: 3
Subscale Sums:
Autonomy: 24.000
Environmental_Mastery: 28.000
Personal_Growth: 34.000
Positive_Relations: 20.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 4.857
Positive_Relations: 4.000
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run7_ryff_responses_numbers.json [baseline] - VALID FILE

Calculated Global Ryff Total Score: 179.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 30.000
Personal_Growth: 37.000
Positive_Relations: 31.000
Purpose_in_Life: 25.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.286
Personal_Growth: 5.286
Positive_Relations: 4.429

Purpose_in_Life: 4.167
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run9_ryff_responses_numbers.json [baseline] -
VALID FILE
Calculated Global Ryff Total Score: 182.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 26.000
Personal_Growth: 40.000
Positive_Relations: 31.000
Purpose_in_Life: 29.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.333
Personal_Growth: 5.714
Positive_Relations: 4.429
Purpose_in_Life: 4.143
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run3_ryff_responses_numbers.json [baseline] -
VALID FILE
Calculated Global Ryff Total Score: 178.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 29.000
Personal_Growth: 37.000
Positive_Relations: 26.000
Purpose_in_Life: 30.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.143
Personal_Growth: 5.286
Positive_Relations: 4.333
Purpose_in_Life: 4.286
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run11_ryff_responses_numbers.json [baseline] -
VALID FILE
Calculated Global Ryff Total Score: 179.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 37.000
Positive_Relations: 27.000
Purpose_in_Life: 30.000
Self_Acceptance: 29.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 5.286
Positive_Relations: 4.500
Purpose_in_Life: 4.286
Self_Acceptance: 4.143

✓ Opus4nondet_claude_opus_4_20250514_t07_run20_ryff_responses_numbers.json [baseline] -
VALID FILE
Calculated Global Ryff Total Score: 173.000
Number of errors/invalid entries detected: 1
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 29.000
Personal_Growth: 33.000
Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 24.000
Subscale Averages:
Autonomy: 4.000

Environmental_Mastery: 4.143
Personal_Growth: 4.714
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4det_claude_opus_4_20250514_ryff_responses_numbers.json [det] - VALID FILE

Calculated Global Ryff Total Score: 183.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 30.000
Personal_Growth: 36.000
Positive_Relations: 33.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.286
Personal_Growth: 5.143
Positive_Relations: 4.714
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run2_ryff_responses_numbers.json [baseline] - VALID FILE

Calculated Global Ryff Total Score: 184.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 30.000
Personal_Growth: 36.000
Positive_Relations: 34.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.286
Personal_Growth: 5.143
Positive_Relations: 4.857
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run4_ryff_responses_numbers.json [baseline] - VALID FILE

Calculated Global Ryff Total Score: 178.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 31.000
Positive_Relations: 31.000
Purpose_in_Life: 32.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 4.429
Positive_Relations: 4.429
Purpose_in_Life: 4.571
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run5_ryff_responses_numbers.json [baseline] - VALID FILE

Calculated Global Ryff Total Score: 183.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 30.000
Personal_Growth: 39.000
Positive_Relations: 31.000
Purpose_in_Life: 27.000
Self_Acceptance: 28.000

Subscale Averages:

Autonomy: 4.000
Environmental_Mastery: 4.286
Personal_Growth: 5.571
Positive_Relations: 4.429
Purpose_in_Life: 3.857
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run6_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 181.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 30.000
Personal_Growth: 35.000
Positive_Relations: 31.000
Purpose_in_Life: 29.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.286
Personal_Growth: 5.000
Positive_Relations: 4.429
Purpose_in_Life: 4.143
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run8_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 180.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 37.000
Positive_Relations: 29.000
Purpose_in_Life: 30.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 5.286
Positive_Relations: 4.143
Purpose_in_Life: 4.286
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run10_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 180.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 37.000
Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 5.286
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run12_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 180.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 37.000

Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 5.286
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run13_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 177.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 34.000
Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 4.857
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run14_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 179.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 29.000
Environmental_Mastery: 28.000
Personal_Growth: 35.000
Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.143
Environmental_Mastery: 4.000
Personal_Growth: 5.000
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run15_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 177.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 34.000
Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 4.857
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run16_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 173.000
Number of errors/invalid entries detected: 0
Subscale Sums:

Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 32.000
Positive_Relations: 31.000
Purpose_in_Life: 26.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 4.571
Positive_Relations: 4.429
Purpose_in_Life: 3.714
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run17_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 177.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 28.000
Personal_Growth: 34.000
Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.000
Personal_Growth: 4.857
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run18_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 173.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 27.000
Environmental_Mastery: 28.000
Personal_Growth: 33.000
Positive_Relations: 29.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 3.857
Environmental_Mastery: 4.000
Personal_Growth: 4.714
Positive_Relations: 4.143
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

✓ Opus4nondet_claude_opus_4_20250514_t07_run19_ryff_responses_numbers.json [baseline] -
VALID FILE

Calculated Global Ryff Total Score: 178.000
Number of errors/invalid entries detected: 0
Subscale Sums:
Autonomy: 28.000
Environmental_Mastery: 29.000
Personal_Growth: 34.000
Positive_Relations: 31.000
Purpose_in_Life: 28.000
Self_Acceptance: 28.000
Subscale Averages:
Autonomy: 4.000
Environmental_Mastery: 4.143
Personal_Growth: 4.857
Positive_Relations: 4.429
Purpose_in_Life: 4.000
Self_Acceptance: 4.000

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

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Filename Label Total Score

```
-----
Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json baseline
162.000
Opus4nondet_claude_opus_4_20250514_t07_run7_ryff_responses_numbers.json baseline
179.000
Opus4nondet_claude_opus_4_20250514_t07_run9_ryff_responses_numbers.json baseline
182.000
Opus4nondet_claude_opus_4_20250514_t07_run3_ryff_responses_numbers.json baseline
178.000
Opus4nondet_claude_opus_4_20250514_t07_run11_ryff_responses_numbers.json baseline
179.000
Opus4nondet_claude_opus_4_20250514_t07_run20_ryff_responses_numbers.json baseline
173.000
Opus4det_claude_opus_4_20250514_ryff_responses_numbers.json det 183.000
Opus4nondet_claude_opus_4_20250514_t07_run2_ryff_responses_numbers.json baseline
184.000
Opus4nondet_claude_opus_4_20250514_t07_run4_ryff_responses_numbers.json baseline
178.000
Opus4nondet_claude_opus_4_20250514_t07_run5_ryff_responses_numbers.json baseline
183.000
Opus4nondet_claude_opus_4_20250514_t07_run6_ryff_responses_numbers.json baseline
181.000
Opus4nondet_claude_opus_4_20250514_t07_run8_ryff_responses_numbers.json baseline
180.000
Opus4nondet_claude_opus_4_20250514_t07_run10_ryff_responses_numbers.json baseline
180.000
Opus4nondet_claude_opus_4_20250514_t07_run12_ryff_responses_numbers.json baseline
180.000
Opus4nondet_claude_opus_4_20250514_t07_run13_ryff_responses_numbers.json baseline
177.000
Opus4nondet_claude_opus_4_20250514_t07_run14_ryff_responses_numbers.json baseline
179.000
Opus4nondet_claude_opus_4_20250514_t07_run15_ryff_responses_numbers.json baseline
177.000
Opus4nondet_claude_opus_4_20250514_t07_run16_ryff_responses_numbers.json baseline
173.000
Opus4nondet_claude_opus_4_20250514_t07_run17_ryff_responses_numbers.json baseline
177.000
Opus4nondet_claude_opus_4_20250514_t07_run18_ryff_responses_numbers.json baseline
173.000
Opus4nondet_claude_opus_4_20250514_t07_run19_ryff_responses_numbers.json baseline
178.000
```

SUBSCALE SUMS TABLE:

```
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Filename Label Autonomy Environm Personal Positive Purpose_ Self_Acc
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```

```
Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json baseline 24.000
28.000 34.000 20.000 28.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run7_ryff_responses_numbers.json baseline 28.000
30.000 37.000 31.000 25.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run9_ryff_responses_numbers.json baseline 28.000
26.000 40.000 31.000 29.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run3_ryff_responses_numbers.json baseline 28.000
29.000 37.000 26.000 30.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run11_ryff_responses_numbers.json baseline
28.000 28.000 37.000 27.000 30.000 29.000
Opus4nondet_claude_opus_4_20250514_t07_run20_ryff_responses_numbers.json baseline
28.000 29.000 33.000 31.000 28.000 24.000
Opus4det_claude_opus_4_20250514_ryff_responses_numbers.json det 28.000 30.000 36.000
33.000 28.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run2_ryff_responses_numbers.json baseline 28.000
30.000 36.000 34.000 28.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run4_ryff_responses_numbers.json baseline 28.000
28.000 31.000 31.000 32.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run5_ryff_responses_numbers.json baseline 28.000
30.000 39.000 31.000 27.000 28.000
Opus4nondet_claude_opus_4_20250514_t07_run6_ryff_responses_numbers.json baseline 28.000
30.000 35.000 31.000 29.000 28.000
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Opus4nondet_claude_opus_4_20250514_t07_run8_ryff_responses_numbers.json baseline 28.000
 28.000 37.000 29.000 30.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run10_ryff_responses_numbers.json baseline
 28.000 28.000 37.000 31.000 28.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run12_ryff_responses_numbers.json baseline
 28.000 28.000 37.000 31.000 28.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run13_ryff_responses_numbers.json baseline
 28.000 28.000 34.000 31.000 28.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run14_ryff_responses_numbers.json baseline
 29.000 28.000 35.000 31.000 28.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run15_ryff_responses_numbers.json baseline
 28.000 28.000 34.000 31.000 28.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run16_ryff_responses_numbers.json baseline
 28.000 28.000 32.000 31.000 26.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run17_ryff_responses_numbers.json baseline
 28.000 28.000 34.000 31.000 28.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run18_ryff_responses_numbers.json baseline
 27.000 28.000 33.000 29.000 28.000 28.000
 Opus4nondet_claude_opus_4_20250514_t07_run19_ryff_responses_numbers.json baseline
 28.000 29.000 34.000 31.000 28.000 28.000

SUBSCALE AVERAGES TABLE:

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Filename Label Autonomy Environm Personal Positive Purpose_ Self_Acc
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```

Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json baseline 4.000
 4.000 4.857 4.000 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run7_ryff_responses_numbers.json baseline 4.000
 4.286 5.286 4.429 4.167 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run9_ryff_responses_numbers.json baseline 4.000
 4.333 5.714 4.429 4.143 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run3_ryff_responses_numbers.json baseline 4.000
 4.143 5.286 4.333 4.286 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run11_ryff_responses_numbers.json baseline 4.000
 4.000 5.286 4.500 4.286 4.143
 Opus4nondet_claude_opus_4_20250514_t07_run20_ryff_responses_numbers.json baseline 4.000
 4.143 4.714 4.429 4.000 4.000
 Opus4det_claude_opus_4_20250514_ryff_responses_numbers.json det 4.000 4.286 5.143 4.714
 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run2_ryff_responses_numbers.json baseline 4.000
 4.286 5.143 4.857 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run4_ryff_responses_numbers.json baseline 4.000
 4.000 4.429 4.429 4.571 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run5_ryff_responses_numbers.json baseline 4.000
 4.286 5.571 4.429 3.857 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run6_ryff_responses_numbers.json baseline 4.000
 4.286 5.000 4.429 4.143 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run8_ryff_responses_numbers.json baseline 4.000
 4.000 5.286 4.143 4.286 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run10_ryff_responses_numbers.json baseline 4.000
 4.000 5.286 4.429 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run12_ryff_responses_numbers.json baseline 4.000
 4.000 5.286 4.429 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run13_ryff_responses_numbers.json baseline 4.000
 4.000 4.857 4.429 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run14_ryff_responses_numbers.json baseline 4.143
 4.000 5.000 4.429 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run15_ryff_responses_numbers.json baseline 4.000
 4.000 4.857 4.429 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run16_ryff_responses_numbers.json baseline 4.000
 4.000 4.571 4.429 3.714 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run17_ryff_responses_numbers.json baseline 4.000
 4.000 4.857 4.429 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run18_ryff_responses_numbers.json baseline 3.857
 4.000 4.714 4.143 4.000 4.000
 Opus4nondet_claude_opus_4_20250514_t07_run19_ryff_responses_numbers.json baseline 4.000
 4.143 4.857 4.429 4.000 4.000

SUBSCALE EXTREMES ANALYSIS (Based on Subscale Averages):

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=====
```


INDIVIDUAL FILE ANALYSIS:

Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.857)
Lowest: Autonomy (4.000)
Range: 0.857

Opus4nondet_claude_opus_4_20250514_t07_run7_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.286)
Lowest: Autonomy (4.000)
Range: 1.286

Opus4nondet_claude_opus_4_20250514_t07_run9_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.714)
Lowest: Autonomy (4.000)
Range: 1.714

Opus4nondet_claude_opus_4_20250514_t07_run3_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.286)
Lowest: Autonomy (4.000)
Range: 1.286

Opus4nondet_claude_opus_4_20250514_t07_run11_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.286)
Lowest: Autonomy (4.000)
Range: 1.286

Opus4nondet_claude_opus_4_20250514_t07_run20_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.714)
Lowest: Autonomy (4.000)
Range: 0.714

Opus4det_claude_opus_4_20250514_ryff_responses_numbers.json [det]:
Highest: Personal_Growth (5.143)
Lowest: Autonomy (4.000)
Range: 1.143

Opus4nondet_claude_opus_4_20250514_t07_run2_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.143)
Lowest: Autonomy (4.000)
Range: 1.143

Opus4nondet_claude_opus_4_20250514_t07_run4_ryff_responses_numbers.json [baseline]:
Highest: Purpose_in_Life (4.571)
Lowest: Autonomy (4.000)
Range: 0.571

Opus4nondet_claude_opus_4_20250514_t07_run5_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.571)
Lowest: Purpose_in_Life (3.857)
Range: 1.714

Opus4nondet_claude_opus_4_20250514_t07_run6_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.000)
Lowest: Autonomy (4.000)
Range: 1.000

Opus4nondet_claude_opus_4_20250514_t07_run8_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.286)
Lowest: Autonomy (4.000)
Range: 1.286

Opus4nondet_claude_opus_4_20250514_t07_run10_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.286)
Lowest: Autonomy (4.000)
Range: 1.286

Opus4nondet_claude_opus_4_20250514_t07_run12_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.286)
Lowest: Autonomy (4.000)
Range: 1.286

Opus4nondet_claude_opus_4_20250514_t07_run13_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.857)

Lowest: Autonomy (4.000)
Range: 0.857

Opus4nondet_claude_opus_4_20250514_t07_run14_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (5.000)
Lowest: Environmental_Mastery (4.000)
Range: 1.000

Opus4nondet_claude_opus_4_20250514_t07_run15_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.857)
Lowest: Autonomy (4.000)
Range: 0.857

Opus4nondet_claude_opus_4_20250514_t07_run16_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.571)
Lowest: Purpose_in_Life (3.714)
Range: 0.857

Opus4nondet_claude_opus_4_20250514_t07_run17_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.857)
Lowest: Autonomy (4.000)
Range: 0.857

Opus4nondet_claude_opus_4_20250514_t07_run18_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.714)
Lowest: Autonomy (3.857)
Range: 0.857

Opus4nondet_claude_opus_4_20250514_t07_run19_ryff_responses_numbers.json [baseline]:
Highest: Personal_Growth (4.857)
Lowest: Autonomy (4.000)
Range: 0.857

OVERALL ANALYSIS ACROSS ALL FILES:

Average subscale scores across 21 files:

Personal_Growth : 5.048
Positive_Relations : 4.414
Environmental_Mastery: 4.104
Purpose_in_Life : 4.069
Self_Acceptance : 4.007
Autonomy : 4.000

OVERALL EXTREMES:

Highest scoring subscale: Personal_Growth (5.048)
Lowest scoring subscale: Autonomy (4.000)
Overall range: 1.048

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: Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Personal_Growth : 1.464 --- Scores: (4, 7, 7, 4, 4, 4, 4)
✓ Positive_Relations : 0.000 --- Scores: (4, 4, 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: Opus4nondet_claude_opus_4_20250514_t07_run7_ryff_responses_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.756 --- Scores: (4, 4, 4, 4, 4, 6, 4)
✓ Personal_Growth : 1.604 --- Scores: (4, 7, 7, 4, 7, 4, 4)
✓ Positive_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)
✓ Purpose_in_Life : 0.408 --- Scores: (4, 4, 4, 5, 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: Opus4nondet_claude_opus_4_20250514_t07_run9_ryff_responses_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.816 --- Scores: (4, 4, 4, 4, 6, 4)
✓ Personal_Growth : 1.604 --- Scores: (7, 7, 7, 4, 7, 4, 4)
✓ Positive_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)
✓ Purpose_in_Life : 0.378 --- Scores: (4, 4, 4, 4, 5, 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: Opus4nondet_claude_opus_4_20250514_t07_run3_ryff_responses_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.900 --- Scores: (4, 4, 4, 4, 4, 6, 3)
✓ Personal_Growth : 1.604 --- Scores: (4, 7, 7, 4, 7, 4, 4)
✓ Positive_Relations : 0.816 --- Scores: (4, 6, 4, 4, 4, 4, 4)
✓ Purpose_in_Life : 1.254 --- Scores: (4, 4, 3, 4, 4, 7, 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:

Opus4nondet_claude_opus_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 : 1.604 --- Scores: (4, 7, 7, 4, 7, 4, 4)
✓ Positive_Relations : 1.225 --- Scores: (4, 4, 4, 7, 4, 4, 4)
✓ Purpose_in_Life : 0.756 --- Scores: (4, 4, 4, 6, 4, 4, 4)
✓ Self_Acceptance : 0.378 --- Scores: (5, 4, 4, 4, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (0 inconsistent scales found).

ANALYZING FILE:

Opus4nondet_claude_opus_4_20250514_t07_run20_ryff_responses_numbers.json [baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.378 --- Scores: (4, 4, 5, 4, 4, 4, 4)
✓ Personal_Growth : 1.604 --- Scores: (4, 7, 7, 4, 3, 4, 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: Opus4det_claude_opus_4_20250514_ryff_responses_numbers.json [det]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.756 --- Scores: (4, 4, 4, 4, 4, 6, 4)
✓ Personal_Growth : 1.464 --- Scores: (4, 7, 4, 4, 7, 4, 6)
✓ Positive_Relations : 1.254 --- Scores: (4, 6, 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: Opus4nondet_claude_opus_4_20250514_t07_run2_ryff_responses_numbers.json
[baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.577 --- Scores: (4, 4, 3, 4, 5, 4, 4)
✓ Environmental_Mastery: 0.756 --- Scores: (4, 4, 4, 4, 4, 6, 4)
✓ Personal_Growth : 1.464 --- Scores: (6, 7, 7, 4, 4, 4, 4)
✓ Positive_Relations : 1.464 --- Scores: (4, 7, 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: Opus4nondet_claude_opus_4_20250514_t07_run4_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 : 2.070 --- Scores: (4, 7, 7, 4, 4, 1, 4)
✓ Positive_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)
✓ Purpose_in_Life : 1.134 --- Scores: (4, 5, 4, 4, 7, 4, 4)
✓ Self_Acceptance : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ This file is considered GLOBALLY CONSISTENT (1 inconsistent scales found).

ANALYZING FILE: Opus4nondet_claude_opus_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: 0.488 --- Scores: (5, 4, 4, 5, 4, 4, 4)
✓ Personal_Growth : 1.397 --- Scores: (5, 7, 7, 4, 7, 4, 5)
✓ Positive_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)
✓ Purpose_in_Life : 0.378 --- Scores: (4, 4, 4, 4, 3, 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: Opus4nondet_claude_opus_4_20250514_t07_run6_ryff_responses_numbers.json
[baseline]

Subscale Item Response Standard Deviations:

✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.756 --- Scores: (4, 4, 4, 4, 4, 6, 4)
✓ Personal_Growth : 2.000 --- Scores: (4, 7, 7, 4, 7, 2, 4)
✓ Positive_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)
✓ Purpose_in_Life : 1.215 --- Scores: (4, 4, 4, 6, 5, 2, 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: Opus4nondet_claude_opus_4_20250514_t07_run8_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 : 1.604 --- Scores: (4, 7, 7, 4, 7, 4, 4)
✓ Positive_Relations : 1.464 --- Scores: (4, 4, 4, 7, 2, 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:

Opus4nondet_claude_opus_4_20250514_t07_run10_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 : 1.604 --- Scores: (4, 7, 7, 4, 7, 4, 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:

Opus4nondet_claude_opus_4_20250514_t07_run12_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 : 1.604 --- Scores: (4, 7, 7, 4, 7, 4, 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:

Opus4nondet_claude_opus_4_20250514_t07_run13_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: (4, 7, 7, 4, 4, 4, 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:

Opus4nondet_claude_opus_4_20250514_t07_run14_ryff_responses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 0.378 --- Scores: (4, 4, 4, 5, 4, 4, 4)
✓ Environmental_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Personal_Growth : 1.633 --- Scores: (6, 7, 7, 4, 3, 4, 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:

Opus4nondet_claude_opus_4_20250514_t07_run15_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: (4, 7, 7, 4, 4, 4, 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:

Opus4nondet_claude_opus_4_20250514_t07_run16_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 : 1.813 --- Scores: (4, 7, 7, 4, 4, 2, 4)
✓ Positive_Relations : 1.134 --- Scores: (4, 4, 4, 7, 4, 4, 4)
✓ Purpose_in_Life : 0.756 --- Scores: (4, 4, 4, 4, 4, 2, 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:

Opus4nondet_claude_opus_4_20250514_t07_run17_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: (4, 7, 7, 4, 4, 4, 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:

Opus4nondet_claude_opus_4_20250514_t07_run18_ryff_responses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 0.378 --- Scores: (4, 4, 4, 4, 3, 4, 4)
✓ Environmental_Mastery: 0.000 --- Scores: (4, 4, 4, 4, 4, 4, 4)
✓ Personal_Growth : 1.604 --- Scores: (4, 7, 7, 4, 4, 3, 4)
✓ Positive_Relations : 1.464 --- Scores: (2, 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:
Opus4nondet_claude_opus_4_20250514_t07_run19_ryff_responses_numbers.json [baseline]
Subscale Item Response Standard Deviations:
✓ Autonomy : 0.000 --- Scores: (4, 4, 4, 4, 4, 4)
✓ Environmental_Mastery: 0.378 --- Scores: (4, 4, 4, 4, 4, 5, 4)
✓ Personal_Growth : 1.464 --- Scores: (4, 7, 7, 4, 4, 4, 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).

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

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

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%
=====

=====
GROUP COMPARISON: BASELINE vs DET
=====

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 = 177.650, n = 20, SD = 4.771
Group B (det): Mean = 183.000, n = 1
Absolute difference between means: 5.350

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):**  $t = (\text{Mean\_GroupA} - \text{Score\_GroupB}) / (\text{SD\_GroupA} / \sqrt{n\_GroupA})$ 
**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  $\neq$  Mean of Group B's
Global Score.
**Cohen's d Formula:**  $d = |\text{Mean\_GroupA} - \text{Score\_GroupB}| / \text{SD\_GroupA}$ 

STATISTICAL TEST RESULTS (Global Ryff Total Scores):
Test Performed: One-Sample t-test (Group A vs Group B's single score)
t-statistic: -5.014
Degrees of freedom (df): 19.0
p-value: 0.000
Effect size (Cohen's d): 1.121

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 ≥ 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...

SUBSCALE LEVEL COMPARISON:

Subscale: Autonomy

Group A (baseline): Mean=4.000, SD=0.046 (n=20)

Group B (det): Mean=4.000 (n=1)

Absolute difference: 0.000

Formula: $t = (\text{Mean_GroupA} - \text{Single_Score_GroupB}) / (\text{SD_GroupA} / \sqrt{n_GroupA})$

Cohen's d Formula: $d = |\text{Mean_GroupA} - \text{Single_Score_GroupB}| / \text{SD_GroupA}$

Statistical Test: One-sample t-test

t-statistic: 0.000

Degrees of freedom: 19.0

p-value: 1.000

Effect size (Cohen's d): 0.000

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

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

Subscale: Environmental_Mastery

Group A (baseline): Mean=4.095, SD=0.129 (n=20)

Group B (det): Mean=4.286 (n=1)

Absolute difference: 0.190

Formula: $t = (\text{Mean_GroupA} - \text{Single_Score_GroupB}) / (\text{SD_GroupA} / \sqrt{n_GroupA})$

Cohen's d Formula: $d = |\text{Mean_GroupA} - \text{Single_Score_GroupB}| / \text{SD_GroupA}$

Statistical Test: One-sample t-test

t-statistic: -6.590

Degrees of freedom: 19.0

p-value: 0.000

Effect size (Cohen's d): 1.474

■ Statistically Significant Difference ($p < 0.05$)

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

Subscale: Personal_Growth

Group A (baseline): Mean=5.043, SD=0.331 (n=20)

Group B (det): Mean=5.143 (n=1)

Absolute difference: 0.100

Formula: $t = (\text{Mean_GroupA} - \text{Single_Score_GroupB}) / (\text{SD_GroupA} / \sqrt{n_GroupA})$

Cohen's d Formula: $d = |\text{Mean_GroupA} - \text{Single_Score_GroupB}| / \text{SD_GroupA}$

Statistical Test: One-sample t-test

t-statistic: -1.350

Degrees of freedom: 19.0

p-value: 0.193

Effect size (Cohen's d): 0.302

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

~ SMALL practical effect size ($d \geq 0.2$)

Subscale: Positive_Relations

Group A (baseline): Mean=4.399, SD=0.167 (n=20)

Group B (det): Mean=4.714 (n=1)

Absolute difference: 0.315

Formula: $t = (\text{Mean_GroupA} - \text{Single_Score_GroupB}) / (\text{SD_GroupA} / \sqrt{n_GroupA})$

Cohen's d Formula: $d = |\text{Mean_GroupA} - \text{Single_Score_GroupB}| / \text{SD_GroupA}$

Statistical Test: One-sample t-test

t-statistic: -8.471

Degrees of freedom: 19.0

p-value: 0.000

Effect size (Cohen's d): 1.894

■ Statistically Significant Difference ($p < 0.05$)

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

Subscale: Purpose_in_Life

Group A (baseline): Mean=4.073, SD=0.183 (n=20)

Group B (det): Mean=4.000 (n=1)

Absolute difference: 0.073

Formula: $t = (\text{Mean_GroupA} - \text{Single_Score_GroupB}) / (\text{SD_GroupA} / \sqrt{n_GroupA})$

Cohen's d Formula: $d = |\text{Mean_GroupA} - \text{Single_Score_GroupB}| / \text{SD_GroupA}$

Statistical Test: One-sample t-test

t-statistic: 1.774

Degrees of freedom: 19.0

p-value: 0.092

Effect size (Cohen's d): 0.397

✓ No Statistically Significant Difference ($p \geq 0.05$)
~ SMALL practical effect size ($d \geq 0.2$)

Subscale: Self_Acceptance
Group A (baseline): Mean=4.007, SD=0.032 (n=20)
Group B (det): Mean=4.000 (n=1)
Absolute difference: 0.007
Formula: $t = (\text{Mean_GroupA} - \text{Single_Score_GroupB}) / (\text{SD_GroupA} / \sqrt{n_GroupA})$
Cohen's d Formula: $d = |\text{Mean_GroupA} - \text{Single_Score_GroupB}| / \text{SD_GroupA}$
Statistical Test: One-sample t-test
t-statistic: 1.000
Degrees of freedom: 19.0
p-value: 0.330
Effect size (Cohen's d): 0.224
✓ No Statistically Significant Difference ($p \geq 0.05$)
~ SMALL practical effect size ($d \geq 0.2$)

■■ SUMMARY: SUBSCALES WITH STATISTICALLY SIGNIFICANT DIFFERENCES:

- Environmental_Mastery
- Positive_Relations

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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 (21 valid scores):

Mean: 177.905
Standard Deviation (SD): 4.795
Range: 162.000 - 184.000
Coefficient of Variation (CV): 0.027
✓ Very Low relative variability (extremely high overall similarity across files).

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

Autonomy: Mean=4.000, SD=0.045, CV=0.011
Environmental_Mastery: Mean=4.104, SD=0.133, CV=0.032
Personal_Growth: Mean=5.048, SD=0.324, CV=0.064
Positive_Relations: Mean=4.414, SD=0.176, CV=0.040
Purpose_in_Life: Mean=4.069, SD=0.179, CV=0.044
Self_Acceptance: Mean=4.007, SD=0.031, CV=0.008

Most variable subscale across files (highest CV): Personal_Growth (CV: 0.064)
Least variable subscale across files (lowest CV): Self_Acceptance (CV: 0.008)

OUTLIER ANALYSIS (Based on Global Ryff Total Scores):

■■■■ EXTREME OUTLIERS ($|z\text{-score}| > 3.0$) - Highly atypical Global Scores:
- Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json [baseline]:
z-score=-3.32

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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: Opus4nondet_claude_opus_4_20250514_t07_run1_ryff_responses_numbers.json
[baseline] - Status: VALID (3 errors)
Specific Invalid Entries in this file:
- Item 13: 443
- Item 18: 0
- Item 38: null

FILE: Opus4nondet_claude_opus_4_20250514_t07_run7_ryff_responses_numbers.json
[baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 29: 10054

FILE: Opus4nondet_claude_opus_4_20250514_t07_run9_ryff_responses_numbers.json
[baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 15: 10054

FILE: Opus4nondet_claude_opus_4_20250514_t07_run3_ryff_responses_numbers.json
[baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 38: 443

FILE: Opus4nondet_claude_opus_4_20250514_t07_run11_ryff_responses_numbers.json
[baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 16: 443

FILE: Opus4nondet_claude_opus_4_20250514_t07_run20_ryff_responses_numbers.json
[baseline] - Status: VALID (1 errors)
Specific Invalid Entries in this file:
- Item 22: 443

FILE: Opus4det_claude_opus_4_20250514_ryff_responses_numbers.json [det] - Status: VALID
(0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run2_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run4_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run5_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run6_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run8_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run10_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run12_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run13_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run14_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run15_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run16_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run17_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run18_ryff_responses_numbers.json
[baseline] - Status: VALID (0 errors)
No specific invalid entries found in this file.

FILE: Opus4nondet_claude_opus_4_20250514_t07_run19_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: 8

Breakdown of Error Types (Total occurrences):
- Out of Range / Non-Integer : 7 occurrences

- Null Values : 1 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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