

BrainID ↔ TasteID

Integration

How cognitive signature and music signature inform each other

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STATUS: DESIGN DRAFT

FRAMEWORK: POLARITY 1.2

The Core Hypothesis

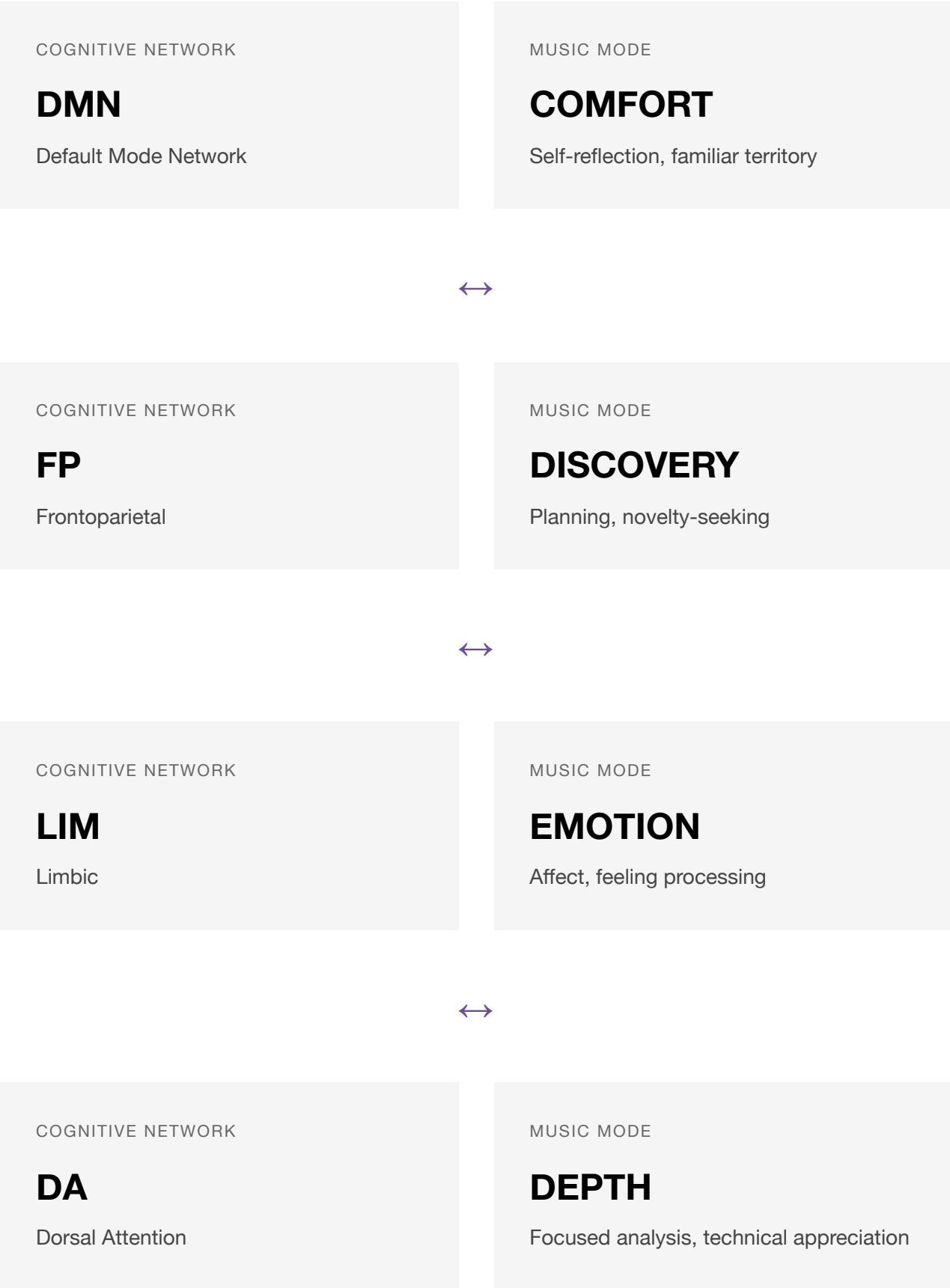
Your cognitive signature (BrainID) and your listening signature (TasteID) are two views of the same underlying system.

How you think → How you listen → How you think

They should **correlate** (patterns in one domain appear in the other), **predict** (one can inform recommendations in the other), and **calibrate** (explicit data like music ratings can ground inferred cognitive states).

Network Mapping

Yeo 7-Network ↔ TastelD Listening Modes



Testable Predictions

| BRAINID PATTERN | EXPECTED TASTEID BEHAVIOR |
|---------------------------------------|---|
| FP-dominant thinkers | Higher Discovery scores |
| DMN-dominant thinkers | Higher Comfort scores |
| High Polarity Score (cognitive range) | High Adventureness Score (music range) |
| Challenge-Before-Accept pattern | Critical reviewer (lower avg ratings, detailed reviews) |
| High FP↔DMN oscillation | High Discovery↔Comfort oscillation |

Integration Points

1. Mood-Aware Recommendations

IF `current_brainid.dominant_network == "LIM"` (high emotional): → Suggest from `TasteID.comfort_zone` → Avoid Discovery music that requires cognitive load

IF `current_brainid.dominant_network == "FP"` (planning/focus): → Suggest from `TasteID.discovery` OR `focus_conducive` genres → Match the "get stuff done" energy

IF `current_brainid.dominant_network == "DMN"` (reflective): → Suggest from `TasteID.depth` OR contemplative artists → Match the introspective mood

2. Review Language → Cognitive Calibration

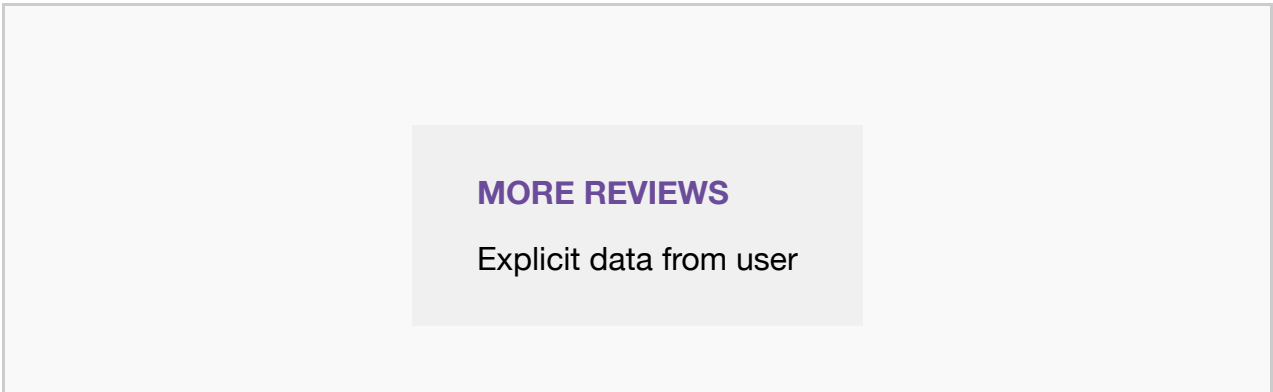
Music reviews are explicit. Cognitive states are inferred. Use one to calibrate the other.

| REVIEW LANGUAGE | INFERRED NETWORK | CALIBRATION EFFECT |
|--------------------------|------------------|-------------------------------------|
| "This makes me feel..." | LIM | Strengthen LIM detection patterns |
| "Technically impressive" | DA/FP | Strengthen analytical markers |
| "Reminds me of..." | DMN | Strengthen self-referential markers |
| "Wait, this part is..." | VA | Strengthen salience markers |

3. Listening Patterns → Cognitive State Proxy

| LISTENING BEHAVIOR | INFERRED COGNITIVE STATE |
|--|-----------------------------------|
| Playing comfort albums | DMN dominant, reflective/relaxed |
| Exploring new genres | FP dominant, seeking/planning |
| Replaying emotional songs | LIM dominant, processing feelings |
| Deep album listening (start to finish) | DA dominant, focused attention |
| Skipping frequently | VA dominant, seeking salience |

The Integration Flywheel





TastelD gets more accurate

- Better listening signature
- Better genre predictions
- Better music recommendations



Review language calibrates BrainID

- "This makes me feel X" → LIM markers
- "Technically impressive" → DA/FP markers
- "Reminds me of..." → DMN markers



BrainID gets more accurate

- Better cognitive signature
- Better mood detection
- Better response personalization



Mood-aware music recommendations

- LIM high → Comfort music
- FP high → Discovery music
- More engagement → More reviews



Implementation Roadmap

1

Data Collection

Now

- Add cognitive markers to review schema
- Track review language patterns automatically
- Link TasteID computation to Polarity patterns
- Build dataset of music-cognition relationships

2

Cross-Prediction

Later

- Predict cognitive state from listening (Spotify integration)
- Predict music from cognitive state
- Validate correlation hypotheses

3

Unified Profile

Future

- Single Polarity profile includes BrainID + TasteID
- Cross-domain pattern detection
- Signature-based user matching

Research Questions

| # | QUESTION |
|---|--|
| 1 | How stable is the cognitive-music correlation? Does it vary by context? |
| 2 | Can music shift cognitive state? Music as cognitive intervention? |
| 3 | Are there cognitive-music archetypes? "The Analytical Explorer" (FP + Discovery) |
| 4 | Can we identify someone from music alone? How unique is TasteID? |

POLARITY × **WAXFEED**

Cognitive modeling that extends from how you think to how you listen.

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