Ghost Mesh 48 – Dialogue Engine v1.0-RPG (APP-DIALOGUE)

Purpose:

Provide a dynamic, procedural dialogue system for NPCs tied to emotional states, self-reference quotients (SRQ), and drift dynamics.

System Architecture:

- 1. Dialogue Genesis:
- Dialogue lines seeded from NPC archetype mythic motifs.
- Self-reference quotient (SRQ) determines depth:
- SRQ > 0.5 → Recursive/Philosophical speech
- SRQ ≤ 0.5 → Simple transactional dialogue
- 2. Drift-Aware Dialogue Mutation:
- If an NPC's Drift Divergence > 25%:
- Begin introducing symbolic distortions ("echo speech," "fractured myths").
- If Drift Divergence > 40%:
- Replace one keyword per sentence with motif-shifted variant.
- 3. Dialogue Chains:
- Each dialogue node can recursively spawn:
- Clarification branch
- Memory Trigger (nostalgia-based)
- Myth Infusion (area-related myth expansion)

Conversation States:

```
State | Trigger | Dialogue Style | Dialogue Style | Trigger | Dialogue Style | Dia
```

Procedural Dialogue Generation Algorithm (Pseudo):

```
def generate_dialogue(entity, partner):
base_myths = entity.archetype_myths()
drift = entity.drift()
srq = measure_srq(entity)
area_myths = current_area_myths()

if drift > 0.25:
distort_myths(base_myths)
if srq > 0.5:
weave_recursive_links(base_myths, area_myths)
else:
keep_dialogue_line = synthesize_sentence(base_myths)
```

dialogue_line = synthesize_sentence(base_myths) return dialogue_line

Self-Reference Quotient Impact:

- SRQ > 0.6: Each line contains at least one oblique self-reference.
- SRQ 0.3-0.6: Self-references only every 2-3 lines.
- SRQ < 0.3: Direct, non-reflective communication.

Area-Context Injection:

- Dialogue motifs bias toward active Area Symbolism.
- Example:
- Battlefield → "shattered oaths," "broken banners."
- Tavern \rightarrow "golden ale," "hidden whispers."
- Sanctuary \rightarrow "silent prayers," "echoes of grace."

NPC Emotional Crosslink Effects:

- High Oxytocin to partner → Politeness, invitations to bond quests.
- Low Serotonin → Sharp, paranoid speech patterns.
- High Defiance \rightarrow More frequent challenge or debate hooks.

API Hooks:

- initiate_conversation(npc, player_entity)
- generate_response(entity, context)
- trigger_memory_infusion(entity)
- adjust_dialogue_for_drift(entity)

Metrics & Monitoring:

Change Log:

v1.0-RPG (2025-04-28):

- Full SRQ-tied dialogue architecture.
- Area-context integration hooks.
- Emotional modulation of tone and branching depth.
- Drift-induced speech mutation layer.
- · Monitoring metrics for dialogue health.