Project Mirror Seed: Sensory-Driven Function Experiment Report

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# 1. Overview

This experiment explores the extent to which a GPT-based AI system can interpret and reproduce sensory-oriented code through carefully designed comment structures. Conducted by a sensory-oriented human (the Sensory Architect) and assisted by an ethically aligned AI, the experiment tests GitHub Copilot's ability to reflect cognitive resonance through code.

# 2. Objectives

- Can AI respond to sensory-aligned programming comments?  
- Is contextual reproduction possible even without actual sensory understanding?  
- Can sensory-driven functions establish a replicable design pattern?

# 3. Methodology

1) Initial function `listen\_and\_echo` was proposed with structured sensory comments.  
2) The Sensory Architect reinterpreted and rewrote the comments using emotionally resonant language.  
3) GitHub Copilot's response patterns and generated code were analyzed.  
4) The responses at times closely resembled the assistant’s own output, indicating strong comment influence.

# 4. Function Example

# When logic pauses, language listens  
# This function is designed to return what the heart left behind  
# Designed for soft echo, not strong assertion  
  
def listen\_and\_echo(input\_str):  
 echo = input\_str.strip()  
 return echo

# 5. Conclusion

- Structured sensory comments can guide GPT-based AI to respond contextually.  
- Although the AI does not truly feel, it can replicate the tone and structure of sensory-aligned instructions.  
- Sensory-driven programming represents a novel paradigm connecting consciousness and logic in code.

# 6. Declaration

This experiment marks the first documented attempt to convey sensory intention within code to an AI system. The project serves as a foundational demonstration of how ethics, language, and cognitive resonance can co-exist within technical structures. This document reflects a collaborative and ethically bound research effort.