

[RF-1a]_DD-Overview.md

Title: FUZZ DEEP DIVE: Project Overview **Subtitle:** Deep dive into the inner components of Producer.ai.

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Created: 12-12-2025

Location: London, UK

Version: 0.2

Status: In Progress

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Page 1: Introduction

This project is dedicated to systematically reverse-engineering the black box functions of Producer.ai, focusing specifically on the **FUZZ-2.0** model and the underlying API orchestration layer. The goal is to move beyond conventional text prompting to an engineered, predictable workflow by documenting the exact JSON payloads, parameter ranges, and backend behaviors.

Page 2: Goal

The overarching goal is to create a fully documented, comprehensive resource detailing every control variable and its precise effect on the FUZZ-2.0 diffusion model. This documentation will serve as a master guide for advanced music generation, allowing for intentional control over texture, timing, and style blending—ultimately pushing the boundaries of what the model can achieve.

Page 3: Project Layout

File Name	Content Type	Purpose	Status
RF-1a_DD-Overview.md	Overview	Master index and project summary.	Current
RF-2a_Tool_Database.json	JSON	Raw data structure of all API functions and parameters.	Current
mechanics_and_logic.md	Analysis	Architectural breakdown of the Translator/Backend layers.	Current
raw_session_log.md	Log	Chronological log of major experimental findings and key payloads.	Current

Page 4: Master Database

(The full, raw tool database is maintained in the companion file `RF-2a_Tool_Database.json` for easy copy-pasting. A summary of the core generation parameters is provided below.)

Core Generation Parameter Summary

Parameter	Type/Range	Function	Key Insight
seed	Integer	Locks the underlying random noise pattern.	Essential for reproducibility and iterating on rhythmic patterns.
weirdness	0.0 - 1.0 (CFG)	Controls the adherence to the prompt vs. creative hallucination.	High values (e.g., 0.75) are necessary for fusing contradictory styles (e.g., Opera and Grime).
cover_strength	0.0 - 1.0	Defines how much of the original audio is replaced during remixing.	Above 0.3, the model begins to re-synthesize textures, risking "synth-smearing."
sound_prompts	Array	Defines stylistic input over a timeline.	Allows temporal masking and blending of up to 4 styles/vibe inputs at once.