

Session ID: #001 - The 2Pac Remix Breakthrough **Status:** Project Scrapped / Documentation Initialized

Key Finding: `cover_strength` is a destructive re-synthesis tool, not a mixer. **Technique Discovered:** "Under-writing" the melody. By stripping the prompt to purely textural words (e.g., "crisp mix") and lowering strength to 0.3, we force the AI to fill the frequency gaps rather than overwriting the source. **Backend Insight:** The AI can stack 4 distinct sound prompts with specific `time_start` and `time_end` values, allowing for mathematically precise transitions.

Session ID: #002 - Deconstructing the Complex Payload (Chimera) **Goal:** Document the maximum capability of the `riff_create_custom` tool using temporal masking and vibe injection.

The "Holy Grail" JSON Payload (Example for Max Complexity):

```
{
  "tool_name": "riff_create_custom",
  "arguments": {
    "inputs": {
      "title": "Project: Chimera [Multi-Stage Gen]",
      "seed": 84720194,
      "weirdness": 0.75,
      "lyrics_id": "a1b2c3d4-e5f6-4a5b-8c9d-0123456789ab",
      "sound_prompts": [
        {
          "text": "Cinematic orchestral build up, tension strings, deep impac
          "strength": 0.8,
          "time_start": 0.0,
          "time_end": 20.0
        },
        {
          "text": "UK Grime drop, aggressive square wave bass, rapid fire per
          "strength": 0.9,
          "time_start": 20.0,
          "time_end": null
        },
        {
          "text": null,
          "strength": 0.35,
          "time_start": 15.0,
          "time_end": 45.0,
          "vibe": {
            "audio_input": {
              "id": "7c821231-4191-4cdf-8f74-30505d440515"
            },
            "start_s": 30.0
          }
        },
        {
          "text": "Female opera vocals, high soprano, reverb, ethereal",
          "strength": 0.5,
          "time_start": 0.0,
          "time_end": null
        }
      ]
    }
  }
}
```

```
}  
}
```

Analysis Points:

- **Blend Point:** The hard switch at `20.0` seconds forces the model to blend "orchestral" into "grime."
- **Subtle Vibe:** The third prompt uses a low `strength` (`0.35`) and `text: null` to inject only the **texture** of the reference audio (UUID `7c821...`) between 15s and 45s, independent of the main style prompts.
- **Global Element:** The fourth prompt ("Female opera vocals") applies globally from `0.0` to `null` (end), tying the cinematic and grime sections together with a consistent vocal element.
- **Hallucination Factor:** `weirdness: 0.75` is high, essential for fusing disparate elements like Grime and Opera successfully.