AI FIELD GUIDES SERIES • MUSIC & SOUNDTRACKS EDITION

AI Music Production & Soundtracks

Your complete 12-page visual handbook to songwriting, commercial scoring, and studio finishing—combining Suno v6 meta-tags & 12-stem exports, ElevenLabs Music & looping SFX, Google Lyria 3.5, and 2026 label licensing clarity.

Suno v6 & Studio Meta-Tags | Personas & Replace Section | ElevenLabs Music & SFX Loops | Google Lyria 3.5 & SynthID | 12-Stem WAV & MIDI Export | 2026 Label & Client Clearance



Structured Song Craft
Direct verses, drops, and locked vocal Personas in Suno v6 using bracketed meta-tags and bar-accurate section replacement.

Cleared Scoring & Foley
Compose millisecond-timed brand beds and click-free ambient loops with ElevenLabs Music and Google Lyria 3.5.

Pro DAW Finishing
Split 12 WAV stems, extract tempo-mapped MIDI, swap in studio VSTs, and master to release loudness in Logic Pro or Ableton Live.

Three Engines, One Modern Studio Mental Model

Rather than forcing a single generator to handle vocals, dialogue underscore, sound effects, and final mixing, modern producers route each job to a specialized engine and bring every piece home inside a desktop DAW.

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Release Target: `-14 LUFS` / `-1 dBTP` — Master

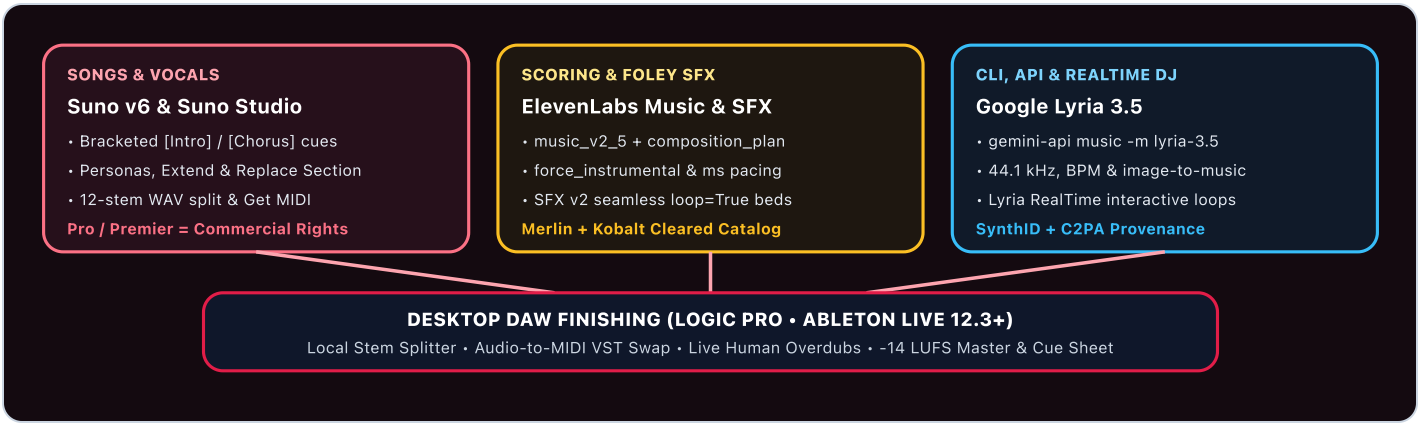
A Songwriting & Hooks (Suno v6)

Think of **Suno v6** and **Suno Studio** as your session band and vocal arranger. You write stage directions like `[Intro]` and `[Chorus]`, lock a recurring singer with **Personas**, repair shaky phrases via **Replace Section**, and pull 12 WAV stems plus tempo-mapped MIDI straight into your DAW.

B Scoring, SFX & CLI (ElevenLabs + Lyria 3.5)

Think of **ElevenLabs Music & SFX** and **Google Lyria 3.5** as your programmable scoring stage. ElevenLabs pairs Merlin/Kobalt commercial clearance with millisecond cues and seamless `loop=True` Foley, while `gemini-api music` generates full 44.1 kHz tracks with embedded **SynthID** provenance from the terminal.

Three-Engine Studio Routing Diagram



SDK Setup, Commercial Rights & Audio Engine Matrix

Great soundtracks fail client audits when they come from the wrong plan tier or lack clean stem files. Install the official SDKs below and match every creative task to the right engine before pressing generate.

ElevenLabs Music & SFX SDK

```
pip install -U elevenlabs
export ELEVENLABS_API_KEY="xi-..."
# Python: client = ElevenLabs()
```

Google Lyria 3.5 CLI & GenAI SDK

```
pip install -U google-genai
gemini-api music "Lo-fi Rhodes beat, 86 BPM,
instrumental" \
  -m lyria-3.5 --out ./bed.mp3
```

Plan Tier Warning: Free Generations Never Unlock Retroactive Rights

On Suno, songs generated while on the Free plan remain permanently non-commercial—even if you upgrade to Pro or Premier later. Similarly, ElevenLabs Free tier sound effects require public attribution (`elevenlabs.io`), whereas paid plans waive attribution for web, social, and indie apps.

2026 Audio Engine & Licensing Matrix

Engine / Model	Best Production Fit	Key Technical Specs	2026 Licensing & Export Reality
Suno v6 / v6-wild `Suno Studio`	Full vocal tracks, anthems, hooks, multi-part songs	Custom meta-tags, Personas, Replace Section, 12-stem WAV + MIDI	Trained post-WMG/BMG/Believe deals; Pro (2,500 cr) & Premier (10,000 cr) clear commercial use.
ElevenLabs Music `music_v2_5`	Brand ads, explainer beds, timed video scores	3s–10m (`music_length_ms`), `composition_plan`, stems	Backed by Merlin & Kobalt; paid clears digital/ads; Film/TV & AAA games require Enterprise.
ElevenLabs SFX `eleven_text_to_sound_v2`	Seamless game loops, UI clicks, ambient Foley	`0.5s–30s`, `loop=True` (v2), `prompt_influence`, v3 cues	Paid tiers royalty-free without credit; reselling raw audio as standalone stock packs prohibited.
Google Lyria 3.5 `lyria-3.5` / `clip`	CLI pipelines, AI Studio prototypes, RealTime DJ	Up to ~3m 44.1 kHz stereo, BPM control, image-to-music	Embeds **SynthID** watermark & C2PA provenance automatically; artist voice clones blocked.
Udio `Licensed Sandbox`	Interactive fan remixing inside label ecosystem	UMG / WMG authorized artist catalog interactions	Walled-garden controls limit open stem & DAW downloads; prefer Suno or ElevenLabs for scoring.

1 Suno Pro vs. Premier Tiers

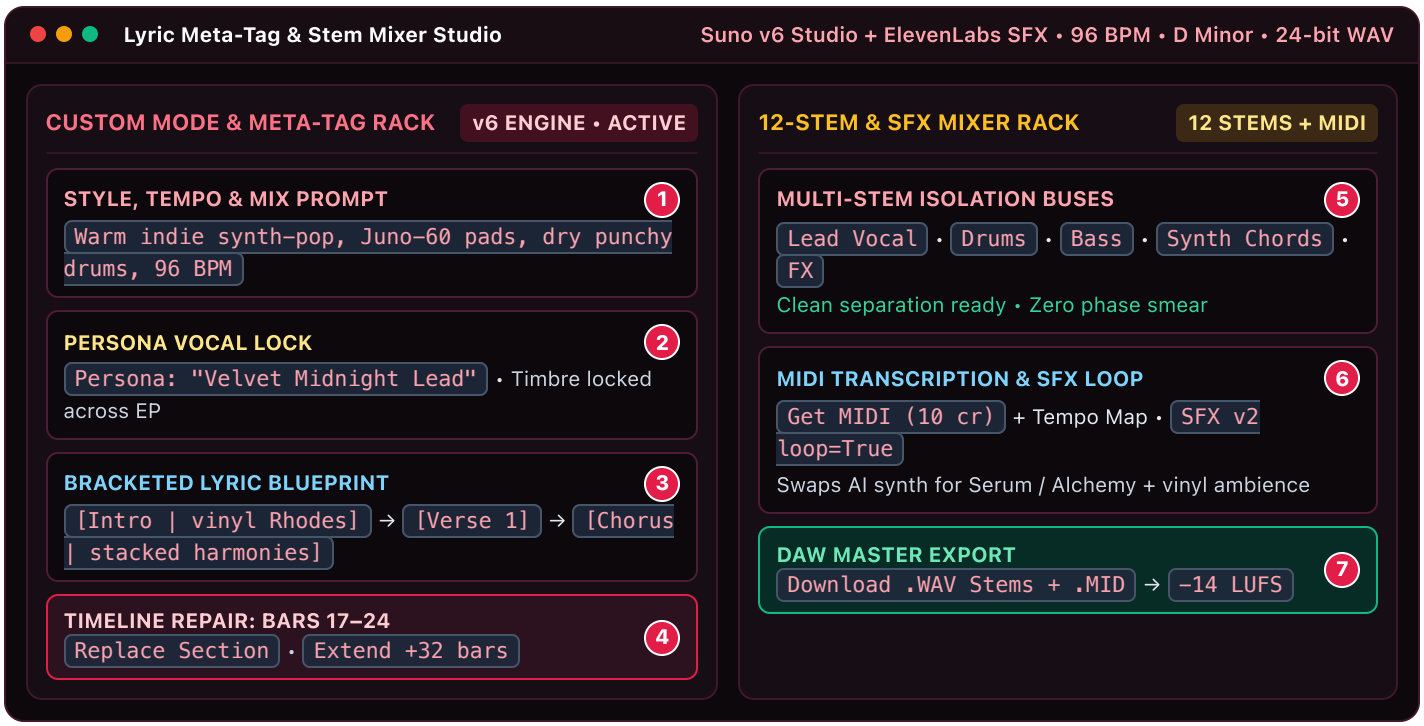
Pro delivers 2,500 monthly credits and full commercial rights for solo creators. **Premier** scales to 10,000 monthly credits, maximum concurrent jobs, and full **Suno Studio** access for 12-stem WAV extraction and MIDI downloads.

2 Local DAW Finishing Prerequisites

Keep **Logic Pro** (Apple Silicon Neural Engine Stem Splitter) or **Ableton Live 12.3+ Suite** (*Separate Stems to New Audio Tracks*) ready alongside `ffmpeg` for sample-rate normalization (44.1 or 48 kHz / 24-bit WAV).

Lyric Meta-Tag & Stem Mixer Studio: 7 Key Controls

Treat AI generation like a multitrack recording session rather than a vending machine. These seven studio controls bridge prompt authoring, timeline surgical edits, and multi-stem DAW export.



7-Point Studio Reference Legend

1 **Style & Mix Prompt Header:** Front-load genre, core instruments, BPM, and dry mix hints (`dry drums, upfront vocal`) so stems isolate cleanly later.

2 **Persona Vocal Lock:** Saves a winning voice and tonal vibe as a reusable Persona so sequels, intros, and full albums share the same lead singer.

3 **Bracketed Meta-Tag Script:** Guides song arc with `[Intro]`, `[Pre-Chorus]`, `[Drop]`, and pipe cues (`[Chorus | anthemic]`) without singing the tags aloud.

4 **Replace Section & Extend Bar:** Regenerates weak four-bar or eight-bar spans in place or appends a new bridge/outro locked to the song's key.

5 **12-Stem Splitter Rack:** Separates vocals, drums, bass, guitars, keys, and textures into isolated channels inside Suno Studio or locally in Logic / Ableton.

6 **Get MIDI & Looping SFX Layer:** Converts harmonic stems into editable `.mid` files with tempo maps while blending seamless ElevenLabs Foley loops underneath.

7 **Uncompressed WAV & DAW Export:** Exports 24-bit WAV stems by clip, time range, or full mix ready for VST upgrades and broadcast loudness mastering.

> **Studio Tip:** Keep Style tags focused under 4–6 distinct sonic descriptors; overloaded genre soups cause muddy stems and confused rhythm sections.

Suno v6: Meta-Tags, Personas & Surgical Timeline Edits

Suno's v6 family (`v6` flagship, `v6-wild` ideation, and fast `v6-mini`) rewards clear architectural direction. Pair Custom Mode meta-tags with Personas and Suno Studio's timeline tools to shape radio-ready arrangements.

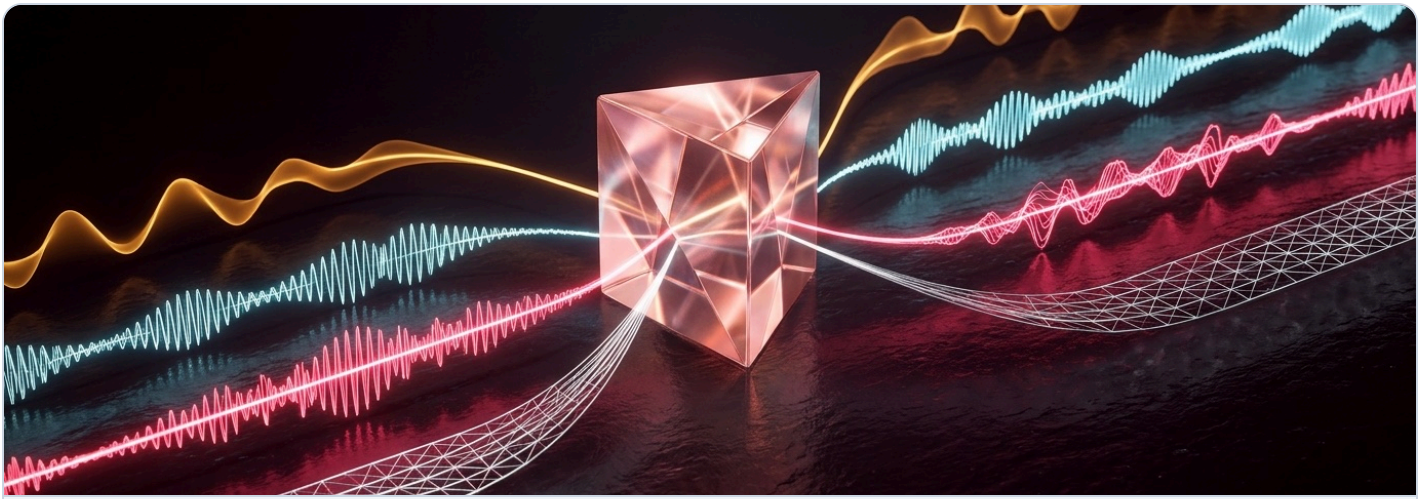


Figure 1: Bracketed structural cues divide a Suno v6 generation into distinct dynamic chapters, letting you lock a Persona voice and swap individual sections without losing the chorus hook.

1 Structural & Pipe Meta-Tags

Always wrap stage cues in square brackets inside the Lyrics box: `[Intro]`, `[Verse 1]`, `[Pre-Chorus]`, `[Chorus]`, `[Bridge]`, `[Guitar Solo]`, `[Drop]`, `[Outro]`, and `[Fade Out]`. Combine section intent with arrangement modifiers using pipes, such as `[Chorus | double-tracked harmonies, wide drums]`, to force unmistakable energy lifts.

2 Personas, Extend & Replace Section

Love a singer's grit or whisper? Save the track as a **Persona** (plus official opt-in artist Personas on v6) to carry that exact vocal identity into future songs. If one verse stumbles or the ending clips early, highlight the bars in Suno Studio and run **Replace Section** or anchor the playhead to **Extend** cleanly in key.

Color-Coded Anatomy: Suno v6 Custom Mode Blueprint

Genre & Era + Core Instrumentation + Vocal Character & Mix Space + Tempo & Section Tags + Negative Guardrail

Style Prompt: Modern alt-pop synthwave, warm analog Juno chords, tight fretless bass, crisp dry drum kit, intimate alto lead upfront, clean stereo field, 104 BPM, no heavy distortion, no spoken chatter

Lyrics Box: `[Intro | airy synth pulse]` → `[Verse 1 | close vocal]` → `[Chorus | wide harmonies, driving kick]` → `[Outro | clean fade out]`

ElevenLabs Music & SFX: Cleared Scores & Seamless Loops

When client projects demand clean chain-of-title clearance, exact millisecond timings for video cuts, or continuous ambient soundscapes that never click at the loop boundary, ElevenLabs Music (`music_v2_5`) and SFX v2/v3 shine.

1 Millisecond Scores & Composition Plans

Call `client.music.compose()` with `model_id="music_v2_5"`. Set `force_instrumental=True` to guarantee zero stray vocals under dialogue, pass `music_length_ms` (3,000–600,000 ms) to match an exact ad spot, or supply a structured `composition_plan` dictionary with timed chunks for intros, drops, and finales.

2 Seamless Looping SFX (`v2` vs `v3`)

Call `client.text_to_sound_effects.convert()` with `duration_seconds` (0.5–30s) and `prompt_influence` (0.3 default; raise to 0.6–0.8 for strict adherence). Target `model_id="eleven_text_to_sound_v2"` whenever setting `loop=True` so the tail blends seamlessly back into frame zero; pick `v3` for multi-event Foley cues.

```python
from elevenlabs.client import ElevenLabs
client = ElevenLabs()  # reads ELEVENLABS_API_KEY

# 1. Timed instrumental underscore using composition_plan (60 seconds total)
score = client.music.compose(
    model_id="music_v2_5", force_instrumental=True,
    composition_plan={"chunks": [
        {"style": "Minimalist felt piano & soft pulse, 92 BPM", "duration_ms": 20000, "lyrics": ""},
        {"style": "Warm cello swell & crisp electronic percussion lift", "duration_ms": 40000, "lyrics": ""},
    ]},
)
with open("brand_score.mp3", "wb") as f:
    for chunk in score: f.write(chunk)

# 2. Seamless 12-second looping rain & vinyl room tone for games or video
sfx = client.text_to_sound_effects.convert(
    text="Gentle evening rain on studio skylight with soft analog tape warmth",
    model_id="eleven_text_to_sound_v2", duration_seconds=12.0, loop=True, prompt_influence=0.55,
)
with open("rain_loop.mp3", "wb") as f:
    for chunk in sfx: f.write(chunk)
```

Color-Coded Anatomy: ElevenLabs SFX & Scoring Prompt

Sound Source + Physical Action & Cadence + Space & Mic Perspective + Loop & Clean Tail Constraint

Brushed mechanical tape transport and soft ocean surf , steady hypnotic swell with smooth rhythmic breathing , wide stereo condenser perspective inside a cedar room , constant energy for seamless loop=True, no sharp impacts or voices.

API Reproducibility: Lock `seed` & Tune `prompt_influence`

When clients approve a groove and ask for a 15-second cutdown, reuse the same integer `seed` alongside an updated `music_length_ms` to preserve harmonic texture. On SFX loops, keep `prompt_influence` around `0.45–0.65` so the model obeys your acoustic details without sounding stiff.

Google Lyria 3.5: CLI Soundtracks, GenAI SDK & RealTime

Google's `lyria-3.5` unifies full-length 44.1 kHz stereo music generation inside the same Gemini API and `gemini-api` CLI used for text and video—bringing scriptable soundtracks, multimodal image cues, and SynthID into any workflow.

1 `lyria-3.5` Full Songs

Produces coherent ~3-minute songs with verses, choruses, bridges, explicit BPM conditioning, global vocal languages (EN, ES, DE, FR, HI, JA, KO, PT), or custom user lyrics.

2 `lyria-3-clip-preview`

Purpose-built for snappy 30-second previews, podcast stingers, and fast loop tests through the Interactions API when you do not need a multi-verse structure.

3 RealTime & AI Studio

Use **Google AI Studio** for Prompt DJ live morphing via **Lyria RealTime** WebSockets or image-to-music generation driven directly by storyboard art.

Shell & Python Production Usage (`gemini-api music` & Interactions)

```
# 1. Generate a BPM-locked track directly from the shell (--out writes audio, prints path)
gemini-api music "Cinematic synthwave instrumental, analog arp, warm bass, 112 BPM, no vocals" \
  -m lyria-3.5 --out ./cues/neon_chase.mp3

# 2. Read brief from file (-f) or piped stdin (--stdin required when piping plain text!)
cat song_brief.txt | gemini-api music --stdin -m lyria-3.5 -o json --out ./cues/theme.mp3
gemini-api music -f song_brief.txt -m lyria-3.5 --dry-run  # inspect HTTP payload offline

# 3. Python Google GenAI SDK (Interactions API with base64 output_audio)
import base64
from google import genai
client = genai.Client()
res = client.interactions.create(
    model="lyria-3.5",
    input="Indie acoustic folk, uplifting mood, fingerpicked guitar, 108 BPM, instrumental, no vocals.",
)
with open("acoustic_bed.mp3", "wb") as f:
    f.write(base64.b64decode(res.output_audio.data))
```

Prompt Formula, Instrumental Guardrail & Mandatory SynthID

Structure Lyria 3.5 prompts as **Genre/Style + Mood + Instrumentation + Tempo (BPM) + Vocal Style + Lyrics/Structure**. For dialogue underscore, always append `"instrumental, no vocals"` so the singer stays silent. Every output carries an imperceptible **SynthID** audio watermark and **C2PA** signature that persist through MP3 compression and re-recording.

CLI Stdin Trap: Always Include `--stdin` When Piping Text

By design, `gemini-api music` parses piped stdin as a raw JSON `--body` payload unless you explicitly add `--stdin` (or load a text file with `-f brief.txt`). Passing `-o json` writes the file and emits `{kind, path, size_bytes, mime_type, response_id, status}` for downstream scripts.

12-Stem Extraction, Tempo-Mapped MIDI & DAW Mastering

Cloud generations sound exciting on laptop speakers yet often carry synth fizz, uneven low end, or subtle tempo drift. Export stems and MIDI into Logic Pro or Ableton Live 12.3+ to transform drafts into release-grade masters.

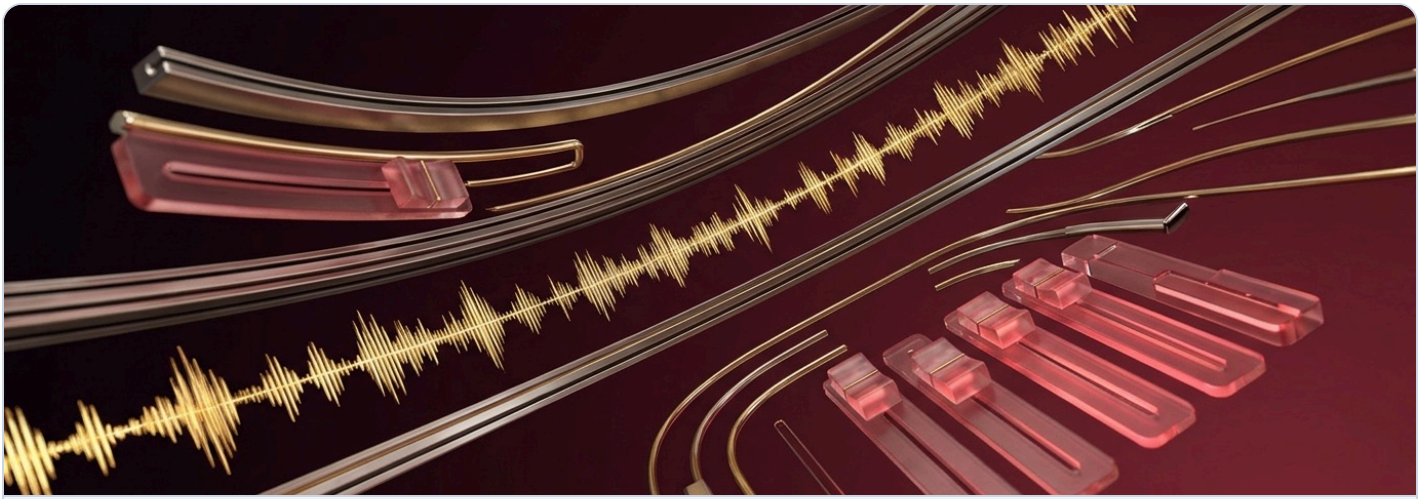


Figure 2: Separated 24-bit WAV stems and extracted MIDI note data move cleanly into Logic Pro or Ableton Live so you can swap virtual instruments, tame mud, and master to target loudness.

1 Suno Studio vs. Native DAW Splitters

Inside **Suno Studio**, open the Stems panel to split songs into up to **12 stems** (vocals, drums, bass, chords, FX), run **Get MIDI** (~10 credits) for melodic/chord tracks with tempo maps, and download uncompressed `.wav` clips. Offline on your Mac or PC, use **Logic Pro's Stem Splitter** (including drum kit sub-stems) or right-click any clip in **Ableton Live 12.3+ Suite** to run *Separate Stems to New Audio Tracks*.

2 VST Re-Voicing & Loudness Targets

Drag extracted bass or synth MIDI onto rich software instruments (Alchemy, Wavetable, Kontakt) to replace metallic AI timbre with clean studio transients. Group stems onto Drum, Bass, Music, and Vocal sub-buses, carve space around 250–400 Hz mud, and finish via Mastering Assistant or Ozone at **-14 LUFS** (streaming) or **-24 LKFS** (broadcast) with a **-1.0 dBTP** peak ceiling.

Anchor Fluctuating AI Tempos Before Overdubbing

Generative models breathe slightly between verses and choruses, making fixed-BPM click tracks drift. Importing Suno's tempo-mapped `.mid` file—or warping your WAV stems onto bar markers inside Logic Flex Time or Ableton Warp—locks every bar cleanly so live percussion and video edits snap in sync.

3 Recommended 3-Step DAW Signal Chain

1. Gain-Stage Stems (-12 dBFS peaks): Pull faders down before bus plugins so AI transients never clip. • **2. Dynamic De-Masking EQ:** Carve 2–3 dB around 300 Hz on chords and sidechain bass gently against the kick. • **3. Clean Limiter Ceiling:** Run Logic Mastering Assistant or iZotope Ozone at `-1.0 dBTP` true peak to stop codec distortion on Spotify and YouTube.

5 Real-World Copy-Paste Production Recipes

Put these five field-tested patterns straight into Suno Custom Mode, Python audio pipelines, or terminal soundtrack scripts—each verified against 2026 API signatures and licensing best practices.

Recipe & Engine	Production Goal	Copy-Paste Pattern / Command
1. Suno v6 Brand Anthem `Suno v6 + Studio`	Lock one recurring singer across a full product campaign.	Style: `Upbeat indie synth-pop, dry drums, upfront vocal, 108 BPM` Lyrics: `[Intro | warm Juno arps] [Verse 1] ... [Chorus | stacked harmonies]` → save **Persona** → fix weak bars via **Replace Section**.
2. Timed Explainer Bed `ElevenLabs music_v2_5`	Exact 75-second vocal-free track cleared for paid social ads.	`client.music.compose(prompt="Warm marimba, acoustic bass, subtle shaker, 94 BPM", music_length_ms=75000, force_instrumental=True, model_id="music_v2_5")`
3. Click-Free Ambient Loop `eleven_text_to_sound_v2`	15s seamless background room/rain bed for games or YouTube.	`client.text_to_sound_effects.convert(text="Soft cedar cabin rain & warm analog tape hum", model_id="eleven_text_to_sound_v2", duration_seconds=15.0, loop=True, prompt_influence=0.55)`
4. Scripted Score Batch `gemini-api music`	Generate JSON-tracked cues in CI or video build scripts.	`gemini-api music -f cue_brief.txt -m lyria-3.5 -o json --out ./cues/hero_score.mp3` Append `--dry-run` first to validate payloads without spending quota.
5. Hybrid AI-to-DAW Master `Stems + MIDI + DAW`	Upgrade AI synth bass/keys with pro VSTs & release loudness.	Run Suno **12-Stem Split** + **Get MIDI** → drag `.wav` + `.mid` into Logic Pro or Ableton Live → re-voice synth MIDI → master to `-14 LUFS` / `-1.0 dBTP`.

End-to-End Automated Scoring & Loop Prep Script

```
#!/usr/bin/env bash — Generate a Lyria 3.5 hero cue, validate metadata, and normalize to 48 kHz WAV
set -euo pipefail
CUE_JSON=$(gemini-api music "Warm documentary piano and muted strings, hopeful mood, 88 BPM, instrumental, no vocals" \
  -m lyria-3.5 -o json --out ./build/doc_cue.mp3)
RAW_MP3=$(echo "$CUE_JSON" | python3 -c 'import sys,json; print(json.load(sys.stdin)["path"])')
ffmpeg -y -i "$RAW_MP3" -ar 48000 -ac 2 -c:a pcm_s24le ./build/doc_cue_48k_24bit.wav
```

Why 48 kHz / 24-Bit WAV Normalization Matters for Video Editors

Most AI generators return compressed MP3s at 44.1 kHz, while Premiere Pro, DaVinci Resolve, and Final Cut Pro run timelines at **48 kHz**. Converting output cues immediately via `ffmpeg` prevents pitch drift and avoids MP3 encoder padding gaps on rhythmic cuts.

2026 Licensing Reality: Settlements, Attribution & Clearance

Landmark 2025–2026 label settlements transformed AI audio from a legal gray zone into tiered licensing agreements. Protect clients and releases by matching plan rights, provenance tags, and human authorship before publishing.

1 Label Settlements & Platform Rules

- **Suno v6 Ecosystem:** Following Warner Music Group, BMG, and Believe deals, Suno retired legacy models and built v6 on licensed/opt-in catalogs. **Pro & Premier** grant forward commercial rights; Free tracks never gain retroactive clearance.
- **ElevenLabs Merlin + Kobalt:** Cleared at both master (Merlin) and publishing (Kobalt) layers. Paid tiers clear ads, social, and indie apps with zero credit; Free SFX require `elevenlabs.io` attribution; Film, TV, and AAA games require Enterprise agreements.
- **Udio Walled Garden:** UMG/WMG settlements shifted Udio into a controlled fan sandbox with tight download limits.

2 SynthID, C2PA & Human Authorship

- **Mandatory Watermarking:** Google `lyria-3.5` embeds **SynthID** wave-level watermarks and **C2PA** cryptographic metadata automatically—surviving MP3 compression, edits, and analog speaker re-recording.
- **The Copyright Paradox:** A platform license lets you monetize audio, yet pure text-to-music prompts rarely qualify for U.S. Copyright Office registration due to missing human authorship.
- **Building Protectable IP:** Document original human lyrics, DAW stem edits, custom MIDI re-voicing, and live guitar or vocal overdubs in your session log.

Client Delivery Clearance Manifest (`cue_sheet_clearance.json`)

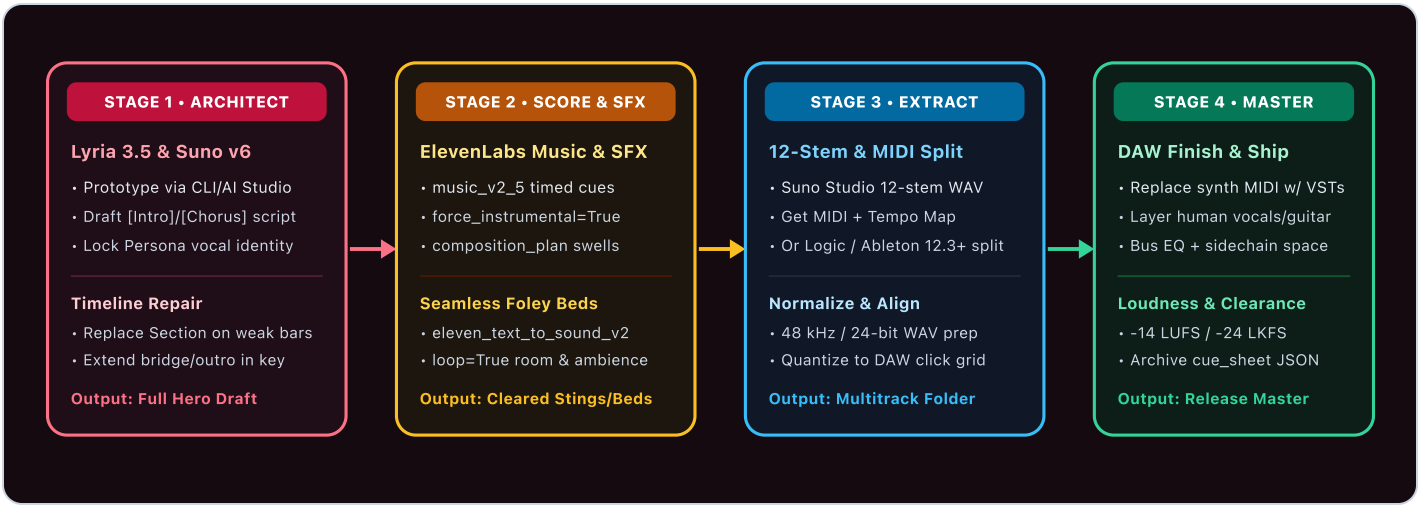
```
{
  "project": "Autumn Brand Launch Film",
  "cues": [
    { "file": "01_hero_anthem.wav", "engine": "suno-v6", "tier": "Premier", "human_layers": ["custom_lyrics",
"live_guitar", "logic_vst_bass"] },
    { "file": "02_explainer_bed.wav", "engine": "elevenlabs-music_v2_5", "tier": "Pro_Paid",
"attribution_required": false },
    { "file": "03_broll_stinger.mp3", "engine": "google-lyria-3.5", "provenance": ["SynthID", "C2PA"],
"instrumental": true }
  ]
}
```

Strict Prohibition: Never Resell Raw AI Outputs as Stock Libraries

Across Suno, ElevenLabs, and Google terms, you may use outputs inside finished songs, games, podcasts, and videos—but repackaging raw generated music or loops directly into standalone sample packs, stock audio marketplaces, or competing AI training sets violates commercial terms.

End-to-End Pipeline: Prompt Blueprint to Mastered Soundtrack

Combine all three engines with your desktop DAW into a seamless four-stage production house—moving from rapid scriptable ideation and vocal hooks to dialogue-safe beds, clean stem splits, and broadcast-ready masters.



1 Draft Fast, Lock Early

Explore chord moods in `gemini-api music` or Suno `v6-mini` before burning heavy Studio credits, then lock your chosen Persona voice for consistency across every deliverable.

2 Split Beds & Vocals

Let Suno carry sung hooks while ElevenLabs generates millisecond-accurate `force_instrumental` underscore and `loop=True` ambient textures beneath spoken narration.

3 Humanize in the DAW

Re-voicing extracted MIDI with pro VSTs and recording a live acoustic instrument overdub elevates audio fidelity while anchoring statutory human authorship.

The 15-Minute Commercial Soundtrack Sprint

Generate three harmonic sketch variations with `lyria-3.5` (2 minutes) → lock timed instrumental underscore and a 12-second `loop=True` ambience bed in ElevenLabs (4 minutes) → pull stems and MIDI into Logic or Ableton, layer a live acoustic motif, and bounce a `-14 LUFS` master plus `cue_sheet_clearance.json` (9 minutes).

Troubleshooting Clinic (Top 7 Fixes) & Pre-Flight Checklist

Bookmark this final page before bouncing a soundtrack or shipping client stems. Almost every AI music snag comes down to one of these seven fast fixes.

Symptom / Failure	Root Cause	10-Second Fix
1. Stray Vocals in Underscore	Generator improvised singing over a background score prompt.	Pass `force_instrumental=True` in ElevenLabs Music or explicitly write `"instrumental, no vocals"` in Lyria 3.5 & Suno.
2. Singer Sings `[Bridge]` Aloud	Section cues placed in parentheses or malformed brackets.	Wrap stage instructions strictly in square brackets (`[Chorus | wide harmonies]`) inside Suno's Custom Lyrics box.
3. Audible Click at Loop Seam	Wrong SFX model chosen or sharp drum transient hits at the tail.	Use `model_id="eleven_text_to_sound_v2"` with `loop=True` and prompt continuous steady-state textures.
4. Stems Drift Off DAW Click Grid	AI audio breathes subtly in tempo between verses and choruses.	Export Suno **Get MIDI** with its tempo map or snap bars manually with Logic Flex Time / Ableton Warp.
5. Artist-Style Prompt Blocked	2026 label safety filters reject living artist names & voice clones.	Describe sonic ingredients instead (e.g., `1980s analog chorus guitar, warm baritone, dry tape snare`).
6. `gemini-api music` Pipe Error	Piped text treated as JSON `--body` payload by default.	Add `--stdin` when piping plain prompts (`cat brief.txt | gemini-api music --stdin`) or pass `-f brief.txt`.
7. Client Flags License Violation	Track created on Free tier or used in Film/Broadcast without Enterprise.	Regenerate under Suno Pro/Premier or ElevenLabs Paid/Enterprise and attach a `cue_sheet_clearance.json` log.

6-Point Pre-Flight Release Checklist

- **Commercial Tier Locked:** Verify every shipped cue was generated on a paid commercial plan (zero legacy Free-tier tracks).
- **Dialogue & Loop Tested:** Confirm underscore beds contain zero phantom vocal murmurs and `loop=True` SFX repeat seamlessly over 60+ seconds.
- **Stems & MIDI Archived:** Save all 12-stem 24-bit WAV exports, tempo-mapped `.mid` files, and original prompt strings together.
- **Human Authorship Logged:** Record custom lyrics, DAW arrangement edits, VST replacements, and live overdubs in your session manifest.
- **Target Loudness Verified:** Check integrated loudness at `-14 LUFS` (streaming) or `-24 LKFS` (broadcast) with `-1.0 dBTP` true peak ceiling.
- **Provenance & Credit Audited:** Preserve SynthID/C2PA flags on Lyria 3.5 cues and confirm zero standalone stock-pack repackaging.