Build a beautiful, highly interactive web app where users can drag and drop a single song file **or** select an entire folder of songs to process.

**Core Features:**

* When a song is dropped:
  + A square appears in a 2D canvas.
  + The square bounces around randomly inside a box.
  + Whenever the cube touches invisible "hotspots" (either random or based on audio analysis like beat detection), it triggers a soft, piano-like sound — similar to a MIDI note.
  + Each bounce leaves a smooth, colorful RGB particle trail behind the cube.
  + The motion feels dynamic and alive, syncing lightly to the music (for example, higher beats or bass could increase speed or bounce intensity).
* The visual style should feel artistic, vibrant, and responsive to the music.
* The app should automatically detect beats, peaks, or energy changes from the song to make the movement and interactions more dynamic.
* The overall feel should be inspired by the "MIDI-Playground 5.0.0" GitHub project but updated for a more modern experience.

**Folder Mode Feature:**

* If a folder is selected instead of a single file:
  + The app automatically plays through every song, one after another.
  + For **each song**, the cube animation runs, and the session is **recorded into an MP4 video** automatically.
  + At the end of each song, save the resulting video file, named after the song (e.g., songname.mp4).
  + After the whole folder is processed, all the MP4s should be ready for download/viewing later.

**Technical Details:**

* Use Web Audio API for audio analysis (beats, peaks, etc.).
* Use Three.js for 3D rendering (for the cube, space, and particles).
* Use Tone.js if needed for musical sound generation (piano-like notes).
* For MP4 recording, use a library like CCapture.js or MediaRecorder API to capture the canvas animation.
* Support drag-and-drop for files and folders (using the webkitdirectory attribute or other modern browser APIs).
* Everything must run fully in the browser, **no server-side code**.
* Prioritize smooth FPS (60fps if possible) and minimal lag even on big songs.
* UI should be minimal and beautiful: big drag-drop area, clear buttons for "Process Folder" / "Process Song," and progress indicators.

**Bonus Enhancements:**

* Add a simple setting to tweak the cube speed, particle size, or trail color.
* Optional toggle for "auto BPM sync" where the cube's speed reacts more strongly to BPM changes.
* Add a "Save All MP4s" button after folder processing completes.
* Allow selecting different sound presets (e.g., "Piano", "Synth", "Bell").