PLUMID

A MIDI SOFTWARE INTERFACE FOR NEURAL DSP'S ARCHETYPE PLINI DEVELOPED BY NATHAN JOSE

VISION, SCOPE AND REQUIREMENTS
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VISION

In its best form, Plumid should be able to interact with the Archetype Plini GUI and execute patch changes in real-time on receiving MIDI messages from the Behringer FCB1010 MIDI Foot controller. This execution should also ideally occur without any latency thereby providing the user instant transition between presets. These capabilities will enable Plumid to be a feasible option in a live performance setting.

SCOPE

While Plumid is the first of its kind in MIDI automating the Archetype Plini GUI, it has a specific range of functionality which is as follows:

- Plumid will be able to transition through a maximum of 10 patches in the order in which they are saved, i.e. if the user saves a new patch on the first slot, that patch automatically becomes Plumids new first patch.
- Plumid will lose functionality if the resolution of the screen changes or the Archetype Plini window is moved from its original position because it relies on specific coordinates of the screen for its functionality.
- Plumid cannot control specific effects parameters except the delay tempo potentially, it can only cycle through pre-saved presets.
- Plumid relies specifically on the Behringer FCB1010 controller for its MIDI input. Other MIDI controllers are currently incompatible.

REQUIREMENTS

- 1. Midi controller input function:
 - a. Functionality: Reads MIDI input from Behringer FCB1010
 - b. Dependent on: N/A
 - c. Priority: High
- 2. Midi Processing function:
 - a. Functionality: Processes the received MIDI input to decide what action should be executed on the Archetype Plini GUI
 - b. Dependent on: 1
 - c. Priority: High
- 3. GUI action function:
 - a. Functionality: Interacts with the Archetype Plini GUI based on received instructions
 - b. Dependent on: 2
 - c. Priority: High
- 4. Delay function:
 - a. Functionality: Calculates delay tempo based on time interval between midi messages
 - b. Dependent on: 1 and 2
 - c. Priority: Low