Plumid

A midi software interface for Neural DSP's Archetype Plini
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System Design Document
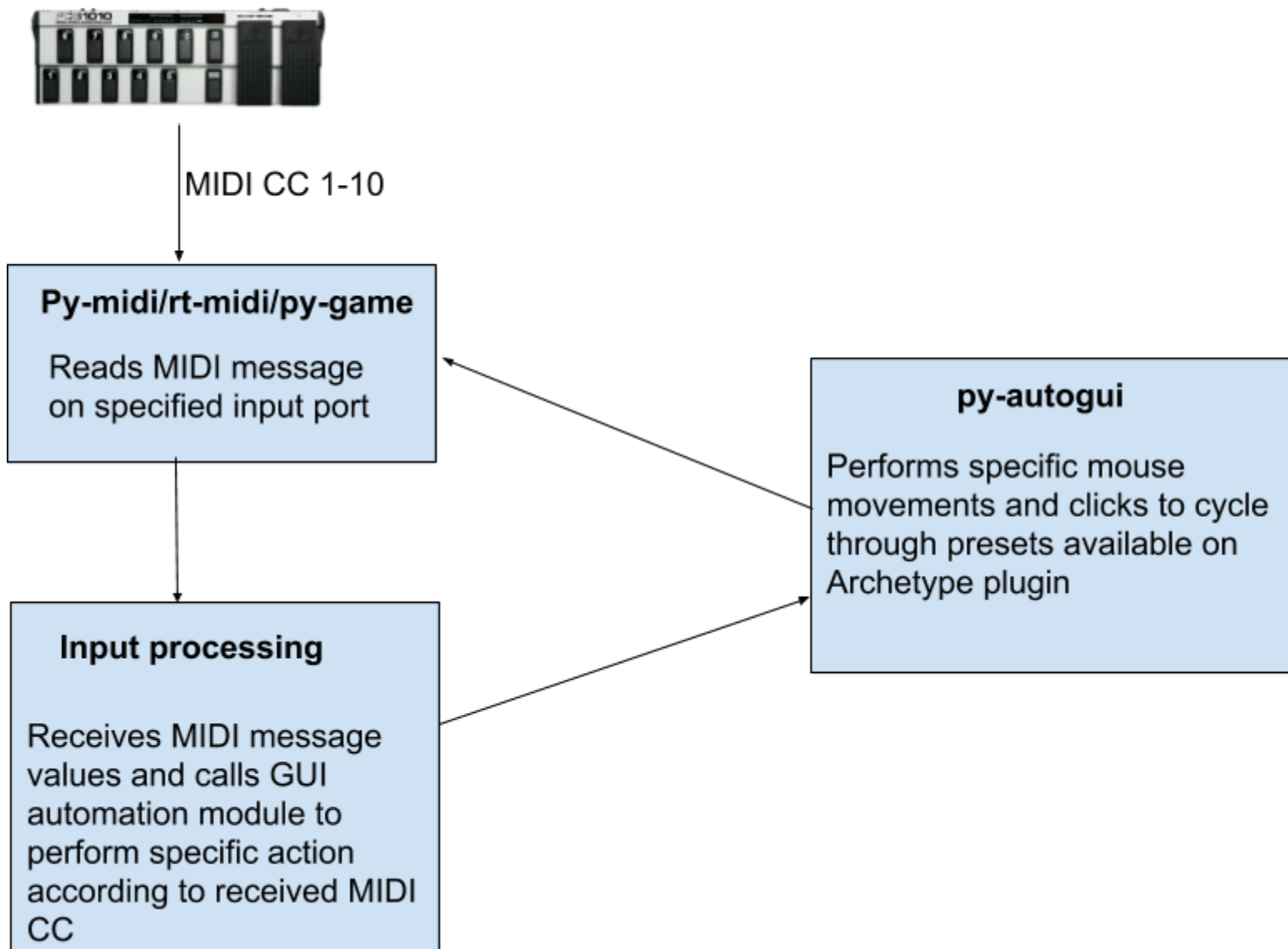September 16th, 2019

Basic/Essential System Architecture

MIDI CC 1-10

Py-midi/rt-midi/py-game

Reads MIDI message
on specified input port

Input processing

Receives MIDI message
values and calls GUI
automation module to
perform specific action
according to received MIDI
CC

py-autogui

Performs specific mouse
movements and clicks to cycle
through presets available on
Archetype plugin

Additional Potential System Design Elements

- Function to receive screen resolution and adjust/scale GUI automation accordingly.
- Function to receive tap tempo input from single footswitch and adjust tempo of delay pedal accordingly
- Function to operate preset cycling in a list method so that only two foot switches would need to be used to cycle forward or backward through presets