Kaleidoscope for Laptop Ensemble

Installation

1. Install Processing 2.2.1   (Download from *http://processing.org*)
2. Install dependencies: The Midibus, oscP5, OCD Library

 A. To install the Midibus and oscP5 libraries:
  - In Processing, go to "Sketch" Menu > Import Library... > Add Library
  - Type the first few letters of the library name into the search box and click the
    "Install" button next to its name in the list

 B. Next, to install OCD:
      1. Unzip the file called "ocd.zip" and copy the "ocd" folder into
         Documents/Processing/Libraries on your hard disk.
      2. Restart Processing if currently open.
      3. Import the "OCD" library using the above procedure.

Setup

Follow these steps on each performer's machine:

1. Open the file named "Kaleidoscope_2015_v1.pde" in Processing.
2. Modify the following variables under the "General Setup," "Network Setup" and "Module Setup" sections:

      - numPerformers
      - serverIPAddress

   Set *numPerformers* to the number of performers in the ensemble.
   Set *serverIPAddress* to the server's IP Address.
   (Note: At least one machine must be a server, i.e. *serverIPAddress* and
   ipAddress are the same.)

3. Select a module.

Modify the currentModule variable to one of the following values:
  VISUALIZER (Server Default), SONIFIER, CONTROLLER

  (Note: The ensemble can consist of any combination of modules, except it must
  contain at least one VISUALIZER and SONIFIER. See the "Description.pdf"
  file for a complete list and detailed explanation of each of the modules.)

Running the Software

1. Run the code on the server by going to "Sketch" Menu > Present.

2. Next, run the code on each of the other machines using "Sketch" Menu > Run
   - The program will try to connect with the server automatically.
   - If nothing is happening or there was an error, type SHIFT + C on each of the
   client machines to manually connect.

2. Once all performers are connected, press SPACEBAR on the server machine
to start.

3. Refer to the following Key Commands chart to use the software.

Stopping the Software

When ready to stop the piece, press SHIFT + \ on the server machine to stop
generating notes and visuals.