

sc-dance Library: Overview

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Purpose

This is a supercollider library networked live coding for dance and animation. The library plays animations on GODOT. It is recommended to run GODOT on the same computer as SuperCollider and sc-dance.

Features, Working Principle

The library sends animation data to GODOT in the form of OSC messages. It can play back animation sessions recorded *or received live. from various MOCAP sources such as /Rokoko suits, Yolo camera based tracking systems, etc.* Its main functionality and features are:

1. Playback recorded data sessions or stream live MOCAP sessions to GODOT
2. Synthesize or modify animation data live, based on functions written by the user, or on control Synths played by the user in SuperCollider.
3. Control sound synthesis based on animation data.

To receive and animate OSC messages from the present library, a Godot project must have the plugins required to receive OSC and to translate OSC messages from the format specific to the MOCAP source (Rokoko, Yolo, etc.). An example for Rokoko is provided in the present library under folder `./Godot_project/boy_and_birds`.

Installation, Getting Started

To install, clone this repository and place it or link it inside the Extensions directory of your SuperCollider User support directory.

To try out:

1. Recompile the ScClass Library (control-shift-L in SuperCollider IDE).
2. Open Godot 4 on our computer.
3. In the Godot 4 application, import project `boy_and_birds` found in folder `./Godot_project`.
4. Start (play) project `boy_and_birds` in Godot.
5. Boot the local server in SuperCollider
6. Run the following line in SuperCollider to load and start playing the default animation:

```
Avatar.load.sendToGodot.play
```

Documentation

Documentation is found found in `./Documentation/sc-dance_documentation.pdf`.

Example files

Code examples are found in `./Guides/`. (Under development).