Puppetstrings

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Version 1.0.7

- Variable Keyframe Rates per mapping. KF Rate in mapping is override for global Keyframe Interval. Set to 0 to use global setting
- Code Cleanups
- More Error Checking

Version 1.0.6

- Rumble on Punch-In or Punch-Out
- Rumble on Start Record

Version 1.0.5

- Posebone mappings will auto-mute now when recording.
- When recording over previous keyframes with a lower keyframe rate, the non-keyframe frames will have keyframes deleted.

Instructions

Setup

- 1. Plug in Controller.
- 2. In the 3D Viewport N panel, press Enable Controller it should say Controller Running.

Controls

- Start Button: Start the play control.
- Back Button:
 - o When Playing: stops playback.
 - When Stopped: goes to start frame.

Recording

- \bullet $\mbox{ Arm recording without punch} \rightarrow \mbox{records at all times}.$
- Punch recording:
 - o Create markers in the timeline and choose them for punch points (pre-roll optional).
 - When punch is enabled (click the *arm circle* next to punch in), it always records in the punch area.
 - When no punch points are selected, recording happens at all frames.

Options

- Prevent Looping Animation: Playback cancels at the final frame instead of looping.
- Auto-Simplify: Toggles render settings "Simplify" panel during recording or playback.
- Controller FPS: How often the controller is polled.

- **Keyframe Interval**: How often to record keyframes.
- Smoothing (ms): Time window for smoothing axis & trigger controls.
- **Debounce Time (ms)**: Delay to prevent jittery button presses.

Mappings

- Mapping Set: Group of key mappings. Needs at least one. If unchecked, the set has no effect.
- Button Mappings: Specific key mappings. If unchecked, the mapping has no effect.
 - Checkbox: Enable this mapping for processing.
 - **Eye**: Show or hide mapping details.
 - Button: Axis or Button to map to.
 - Object: Object to apply mapping.
 - Mapping Type:
 - Location / Rotation / Scale: Axis to map is offered.
 - Shape Key: Lists available shape keys.
 - Modifier / Data Path: Still in development.
 - Operation:
 - Direct Value: Use value directly from controller.
 - Curve: Map controller value to a curve (extend with curve tools).
 - Inverted Button: 0 = On, 1 = Off.
 - Inverted Axis: Flips -1 to 1 \rightarrow 1 to -1.
 - Assignment Expression: Write expression with value (start with =).
 - Example: = value * 2
 - Easing: Apply easing method at controller level before returning to script.

TODO

• Make a way to set smoothing per button.