



Research Objective

Continuous control of musical attributes is important. \rightarrow To transform music with a model that

. can control **how much** it changes the musical attributes



Note duration



- 2. is applicable to **any set of musical annotations**
 - \rightarrow No need to change the model structure or implementation for new attributes

Musical Attributes

Annotations from **jSymbolic** [McKay & Fujinaga, 2006]

- Calculates **musical statistics**
- (e.g. pitch, melody, chord, and rhythm)
- Selected 12 interpretable features, which are continuous values

Experimental Settings

Dataset: **Nottingham** dataset [Foxley, 2011] (monophonic) Input representation: piano-roll with {rest, continue} tokens Baselines: Naïve VAE (MusicVAE [Simon+, 2018]) and

Network: Composed of Gated Recurrent Unit

Project Page and Contact Other results with audio samples are available at Email: kawai@mi.t.u-tokyo.ac.jp



Attributes-Aware Deep Music Transformation

