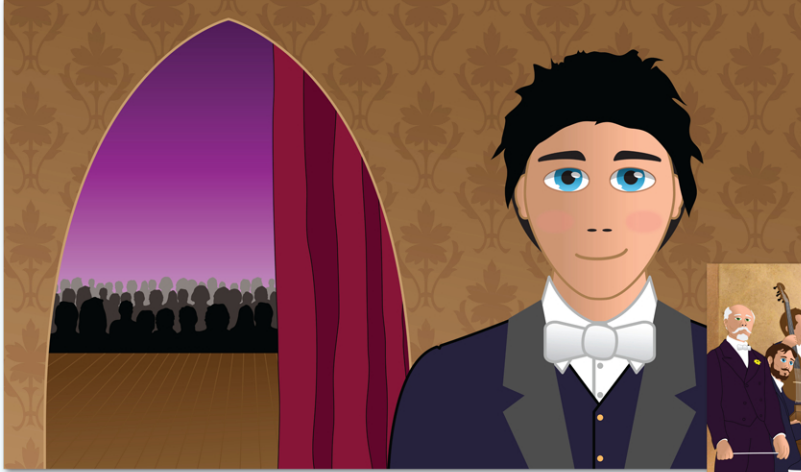


musickiosk:

When listeners become composers.
An exploration into affective, interactive music.
Laurence Pearce* Lassi A. Liikkanen**

MusickKiosk is an installation that allows children and adults to create musical stories based on their emotional expressions.



Goals

To build a publicly accessible installation that allows users of all age to enjoy the creation of music and to explore how emotional expressions can be converted into a musical performance.

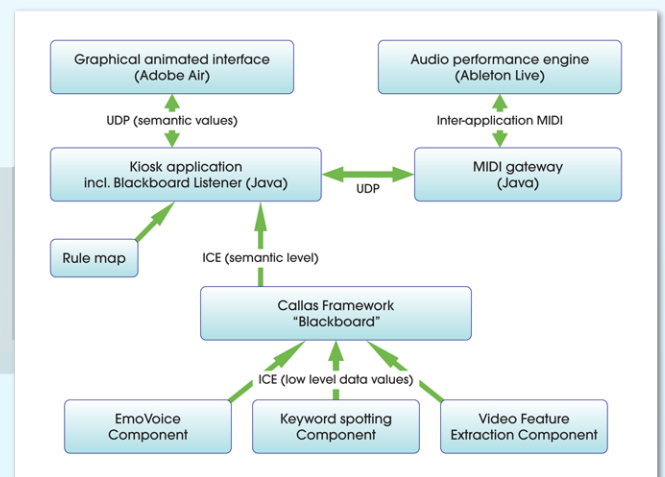


Means for Input

The interaction with the installation uses two inputs: **speech and facial expressions**. State-of-the-art machine learning approaches are used to interpret these into emotional representations.

Means for Output

The installation unfolds as an audio-visual story. The data about user's emotional state is converted into music through a MIDI gateway and an audio engine (Ableton Live). The same information is used to animate characters simultaneously displayed on the screen.



Present State & Future

The first functional prototype of the system now exists. We will next complete some users studies and use them as feedback for improving the system. You are welcome to enjoy the installation in the museum of Santa Cecilia music institute in Rome (Italy) later in 2008!

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