

Music Impro Application

Joakim Bording
Geirr Sethre
Jan Ole Skotterud
Kjartan Vestvik
Tommy Madsen

Supported by:

RHYME



Our Aim

“Without music life would be a mistake” - Nietzsche 1888

- ! For many its too challenging to learn to play a traditional instrument. Music making may increase health trough reduction of isolation and passivity.
- ? How to make a mobile application in an open framwork that supports live co-creation of music based on gesture interaction and universal design principles.



User Group

Our approach to the users will be based on **Universal design**

“..the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.”
(Ron Mace 2008)

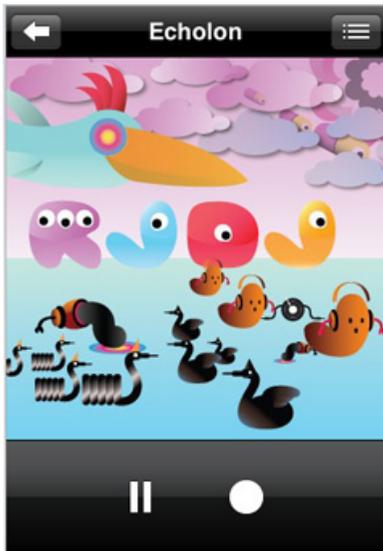
Scenario

- A child with autism with communication disabilities. Father and son playing together, both having fun mastering the application.



Similar technologies

- *Gyrosynth, Beatmaker, Seline, Bloom, Aura Flux*



RJDJ

Reactive Music - let's users dynamically create sounds and music from their environment through the use of the microphone input and the sensors in the mobile.

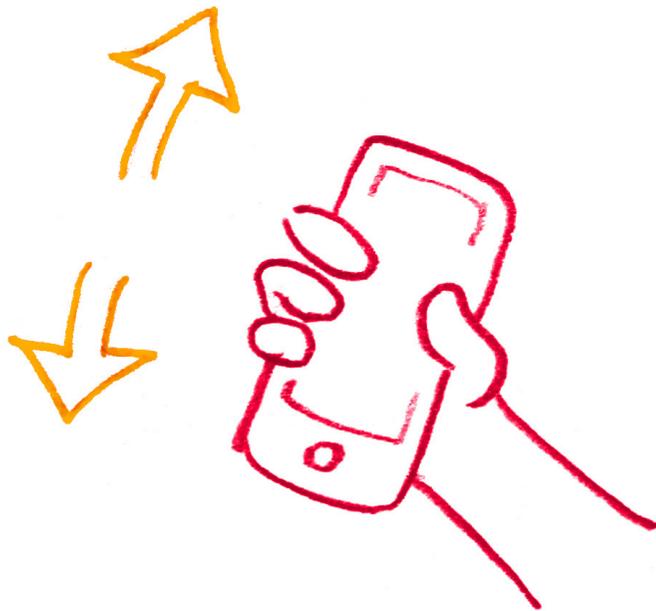
REACTABLE

Tangible interaction and collaboration. Starting loops, adding filters, manipulation of sounds



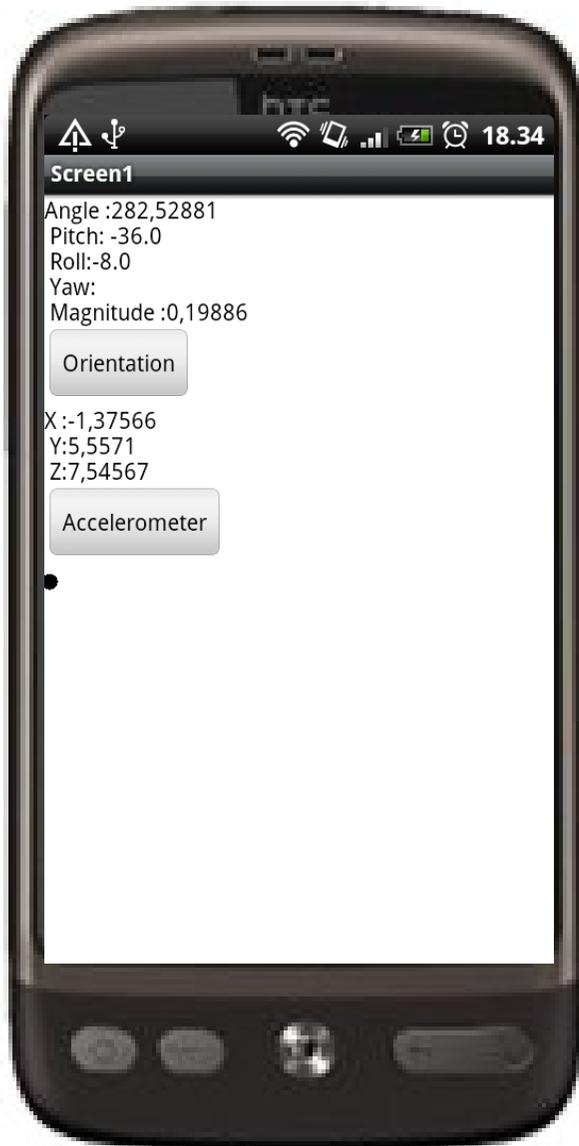
Conceptual Model

- Each terminal is a node in a network and is dependent on each other
- GUI allow users to choose between different instruments i.e. guitar, percussion, xylophone, violin, piano
- Music is made trough gestures and movement of the terminales
- A master node controls the rythme and groove of the music, while the other nodes control each instrument



Prototypes

1. Gen

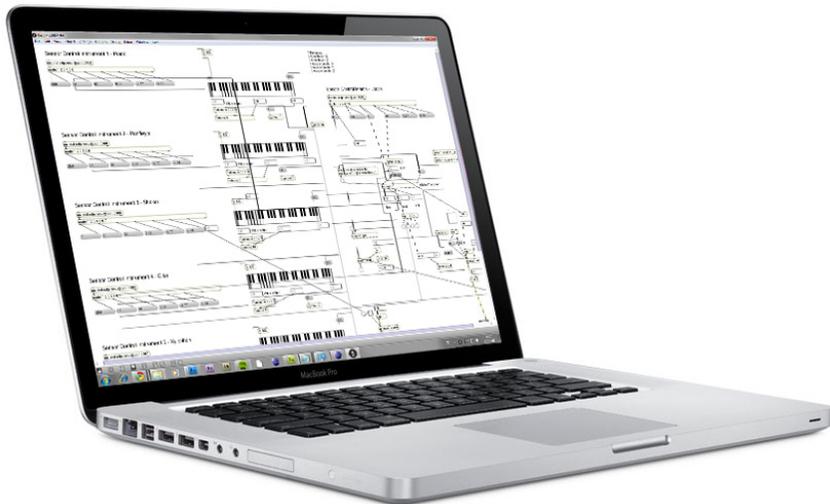


2. Gen



Prototypes

3. Gen



DEMO!

Future Work

- User testing
- Make it sound better!
 - Adding musical scales
 - Adding more loops
 - Stop instruments from playing when not selected
 - Fix synchronization when changing tempo
 - Analyzing sensor data in order to optimize (gestures)
- Add the ability to control an effect from the nodes
- Add drum breaks to the master node
- Stream sound from solo instruments b
instrument



Thank you for the big applaude!