

Lovestep

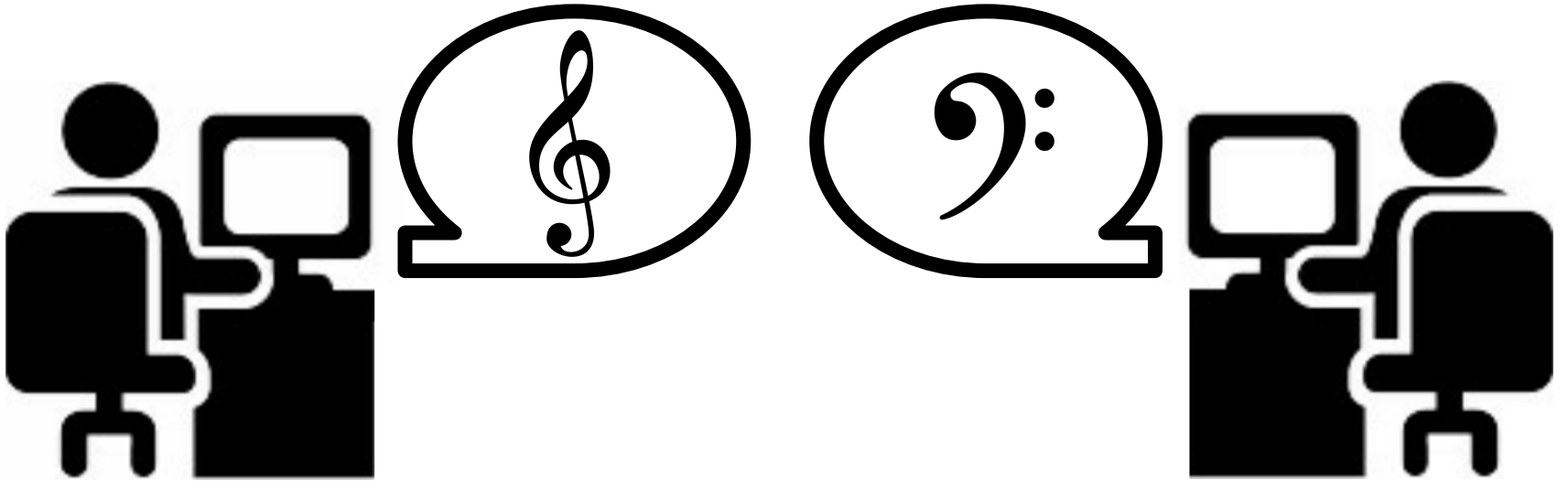
Joey Hernandez **George Kennedy** **Igor Berman** **Scott Buckstaff**

Overview

Lovestep is an application designed for the **collaborative** development of **digital music** .



Problem



Solution



Contextual Inquiry

Seek perspectives from:

- variety of **musical proficiencies**
- **mobile-enabled** audience
- variety of **musical tastes**

Asked about:

- **compositional** musical experience
- **collaborative** musical experience



Interview #1: Abi

Musical proficiency: **LOW**

Has **never** played music with others.

Prefers that musical details are **abstracted** away from her, but still wants the power to create **unique** tracks.



Interview #3: Joel

Musical proficiency: **HIGH**

Plays drums and sings in a **band**.

Would prefer to be a **power user**, but is excited about the music he could make if his creative expression were **limited**.



Task Analysis Results

Who is going to use this system?

People with the desire to make music with friends.

What tasks do they now perform?

Some already play an instrument and are familiar with recording and playing with others. Some release their music. Some play no music at all. Almost all are avid music listeners.

What tasks are desired?

The ability to make music. Enjoying music in a group.

How are the tasks learned?

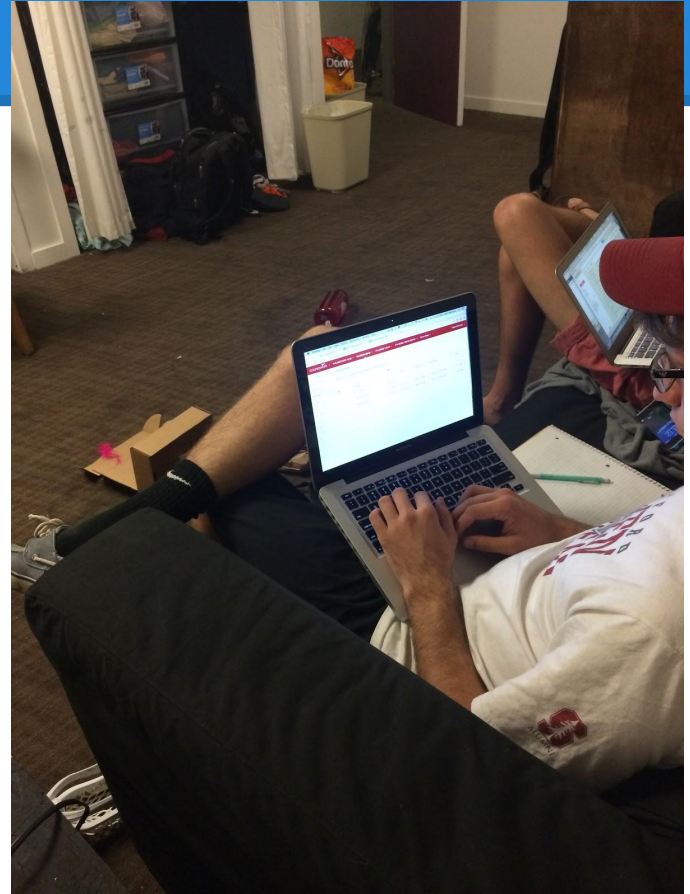
Experimentation.

Interview #2: Daniel

Musical proficiency: **MEDIUM**

Listens to music **socially**.

Supports the **abstraction** of tedious musical details, but wants the **option** to have free reign over minutiae.



Task Analysis Results cont.

Where are the tasks performed?

Dorm rooms, friends' houses, recording studios, parties.

What's the relationship between customer & data?

Customers create and consume sound data.

What other tools does the customer have?

Messaging services or sites like SoundCloud to share their music.
Recording software. Services like Spotify to find music.

How do users communicate with each other?

Send music directly or post it for anyone to see.

Task Analysis Results cont.

How often are the tasks performed?

Leisure times. Most people listen to music every day. Musicians play a couple of times a week.

What are the time constraints on the tasks?

People can only create music in their leisure time. Most can also only listen to music in their leisure time.

What happens when things go wrong?

Users stop having fun.

Representative Task #1

Easily synthesize beats, melodies, and sounds.

Representative Task #2

Create music collaboratively.

Representative Task #3

Share music they have made.

App Idea #3

Gear the app more towards **advanced musicians**.

Allow **fine control** of beats, melodies, and everything else.

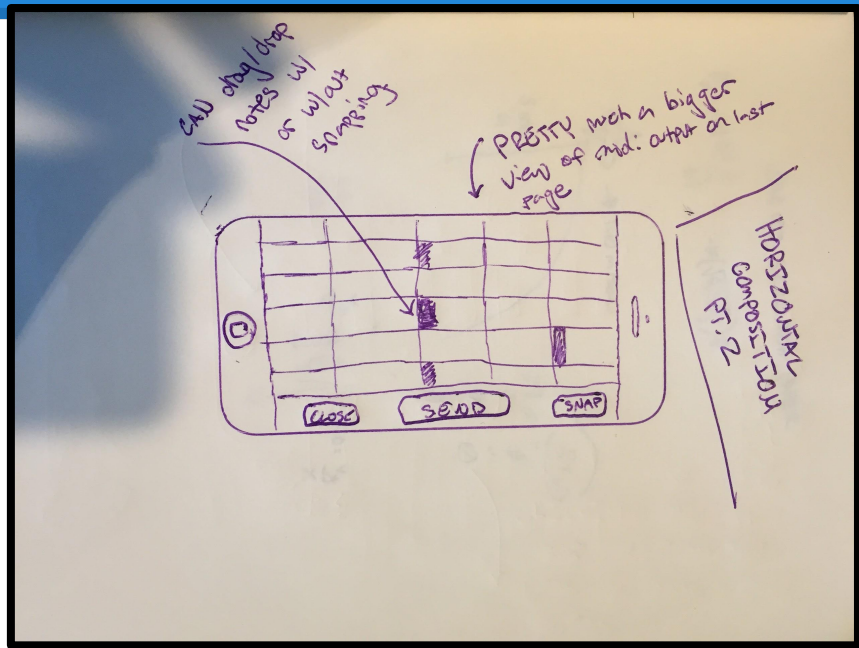
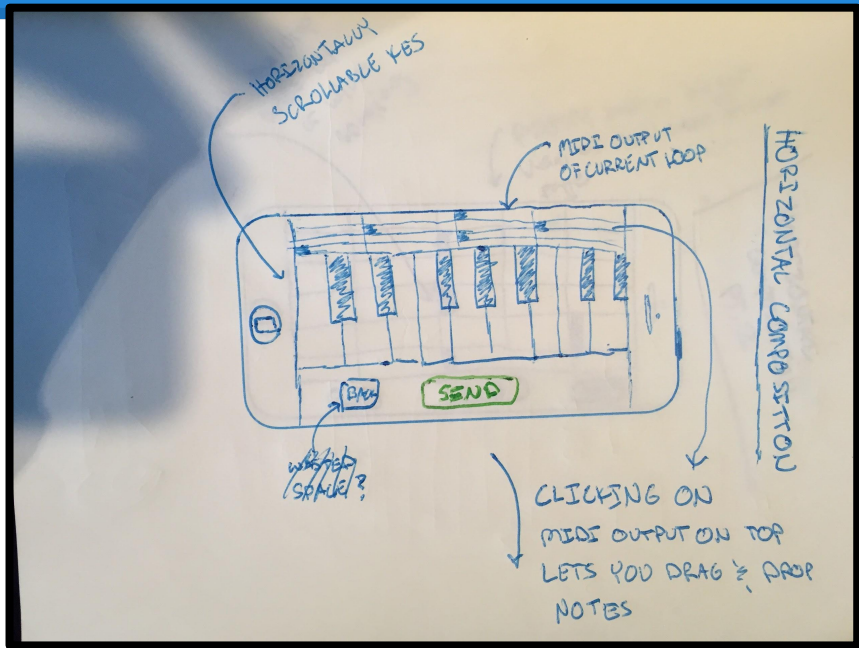
Users work on a **persistent workspace** (not in real time).

FAERIE'S AIRE and DEATH WALTZ
(from "A Tribute to Zdenko G. Fibich") Words and Music by John Stump
Arranged by Accident

Based on a Cro-magnon skinning chant

The score is highly detailed with various performance directions and annotations:

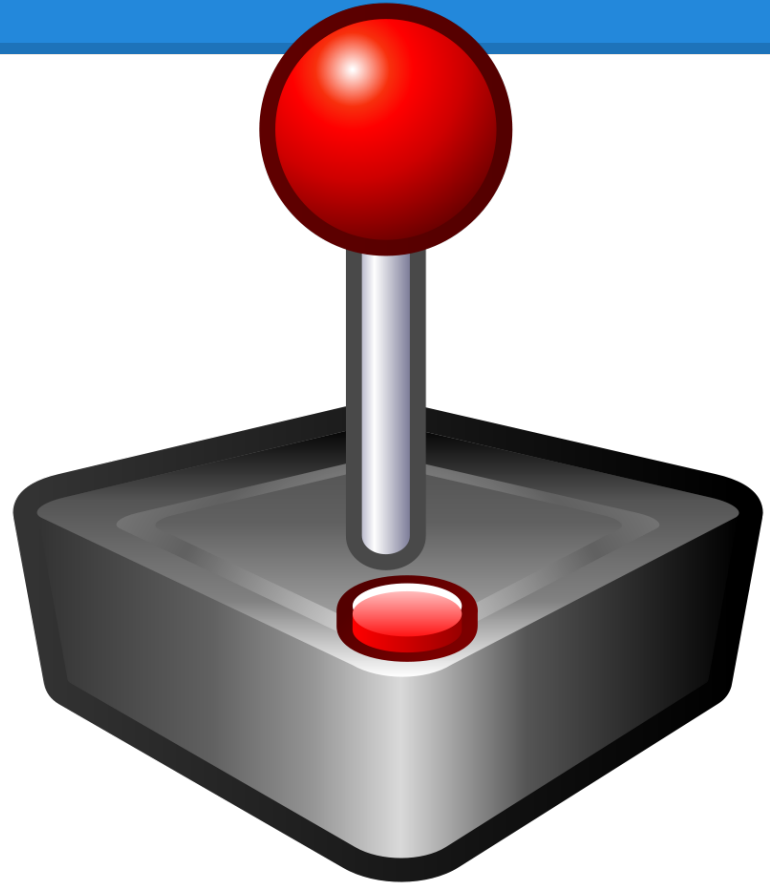
- Violins:** "Solo", "if there are no Violas, go up 1/2", "Keep both feet together", "insert peanuts", "Bongos tilt", "skip bar 7", "Tune the Uke", "Go fast", "Tempo VI", "delicately", "oil bow here".
- Timpani:** "Cool Timpani with small fan", "Tutti", "Glock. mallet", "Slovenly", "rotate embouchures".
- Flutes:** "light explosives now... and... now", "mf", "p", "f", "pp", "f", "p", "f", "ff", "fff", "ffff", "fffff".
- Saxophones:** "Saxes move downstage", "duck", "crec.", "not", "increase breathing", "Light and airy", "Cornet use", "remove valve", "Play ball!", "mute in", "mule out mule in", "gradually become agitated", "Have a nice day", "release the perogues", "optional", "water pedal", "Flately", "unite sly knot", "Gong duet", "Orvis it!", "Like a Dirigible", "add Sopranos", "remove cattle from stage", "begin to fall", "bow real fast slippage may occur", "hand in", "Like a New Orleans concertinas choir rests are imaginary", "Turn", "Lakers in 6. Pp 3 FP", "all Harpists stand up and wait", "spam", "only 16 players", "whole arm on black notes", "Timpani sticks on bell", "Moon-walk", "continous 'swimming' motion", "Gradually slide from 12-bar Blues to a more Vivaldi-like caccato Intonation!



App Idea #2

Gamify the music collaboration process.

Time pressure and **competition** force the users to make highly **dynamic music**.



lovestep

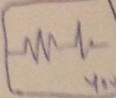
Challengers

Search

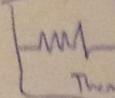
| Wins | Losses | Name | |
|------|--------|--------|---|
| 6 | 3 | Joey | Ⓟ |
| 5 | 1 | Igor | Ⓟ |
| 2 | 4 | Scott | Ⓟ |
| 1 | 7 | George | Ⓟ |

lovestep

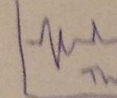
Shared tracks



You



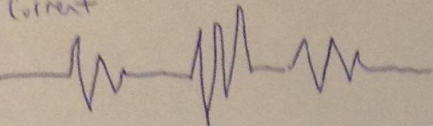
Them



Them

Make a beat with 2 kicks and 4 snares. 10 seconds left

Current



| | |
|-------|--------|
| kick | bass |
| snare | hi hat |

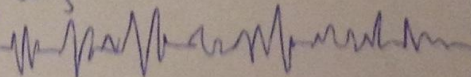
lovestep

You Win!

Player ran out of time

You have won 15 games!

Song



| | |
|-----------|----------|
| PLAY SONG | CONTINUE |
|-----------|----------|

App Idea #1

Gear the app more towards **basic users**.

Make it as **easy as possible** to produce pleasant music.

Users work **simultaneously** on the same song, writing in **real time**.

Sheet music supplied by: www.music-scores.com

Jingle Bells

TRADITIONAL
arr. A.L.Christopherson

Piano

3 *f* 5 1 2

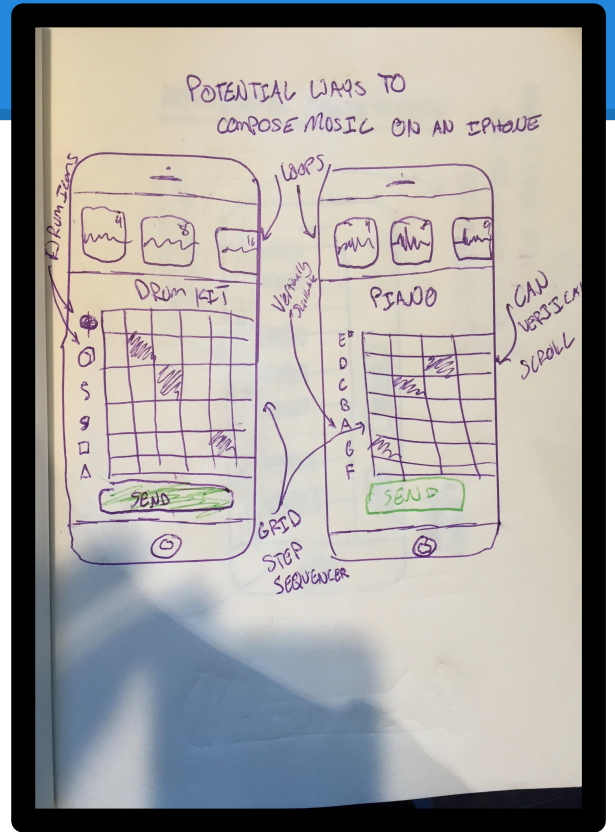
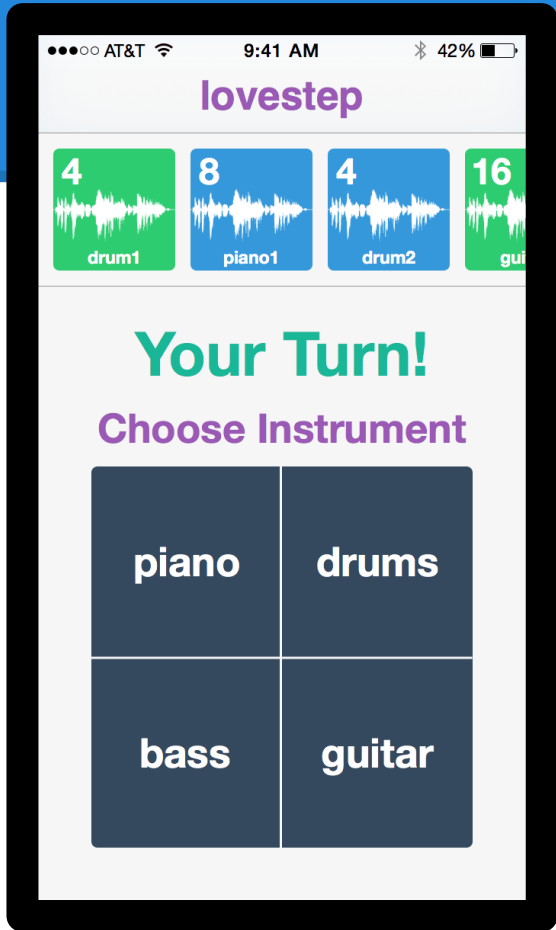
3 4 3

2 2 3 2 5 3

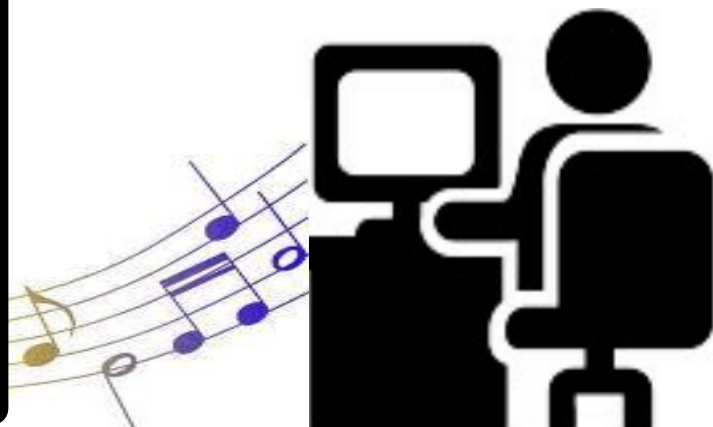
5 1 2 3 4

3 5 4 2 1

Jingle bells, jingle bells,
Jingle all the way,
Oh what fun it is to ride
In a one-horse open sleigh. Oh!
Jingle bells, jingle bells,
Jingle all the way,
Oh what fun it is to ride
In a one-horse open sleigh.



Summary



Stolen Images

- http://www.spanishflytv.com/resources_mod/VideolImage108_culberson-wejebe-jam-.png
- http://img.freepik.com/free-photo/man-sitting-on-office-desk-working-in-front-a-monitor-of-computer_318-63618.png?size=318&ext=png
- <http://lakotawestbands.org/wp-content/uploads/2012/11/colored-musical-staff-3b.jpg>
- <http://www.legalimperium.com/wp-content/uploads/2012/03/Female-Placeholder1.jpg>
- http://www.music-scores.com/graphics/jingle_easy.gif
- <http://images4.fanpop.com/image/photos/16300000/O-o-Complicated-piano-music-music-16392873-581-800.jpg>
- <http://upload.wikimedia.org/wikipedia/commons/thumb/b/b6/Gnome-joystick.svg/1024px-Gnome-joystick.svg.png>
- <http://www.nothingbuttreble.com/Images/nav/clef.png>
- <http://i219.photobucket.com/albums/cc273/adron75/funk%20stuff/bassclef.jpg>