



Medium-Fi Prototype

Amy Bearman, Kevin Coelho, Hieu Minh Pham

Roadmap

- ▣ Mission Statement & Value Proposition
- ▣ Tasks
- ▣ Revised Interface Design
 - UI Changes
 - Medium-Fi Task Flows
- ▣ Prototype Overview

allegro

Compose anywhere.

1.

Value Proposition

Allegro is a **music creation** and **composition** app for professional composers and musicians. It provides a **quick, easy, and on-the-go** way for composers to jot down their ideas and **transcribe** them to a musical score.

2.

Tasks

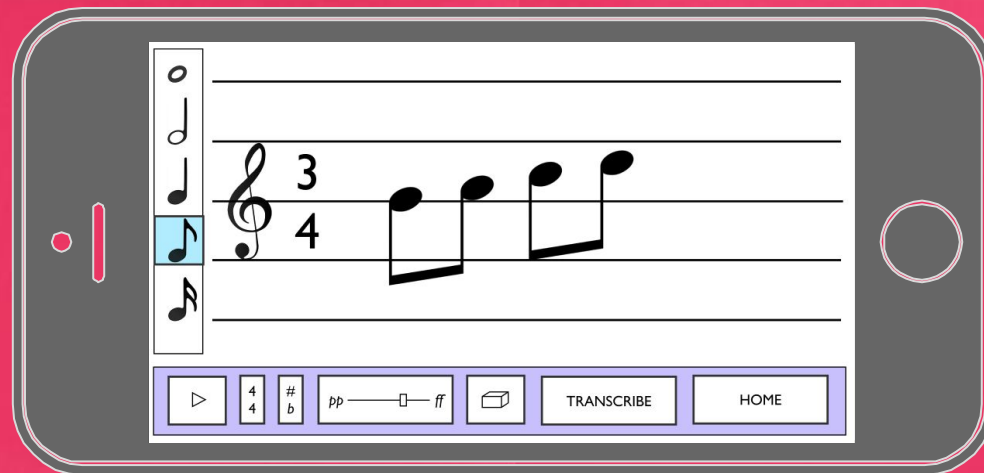
Compose

Arrange

Share

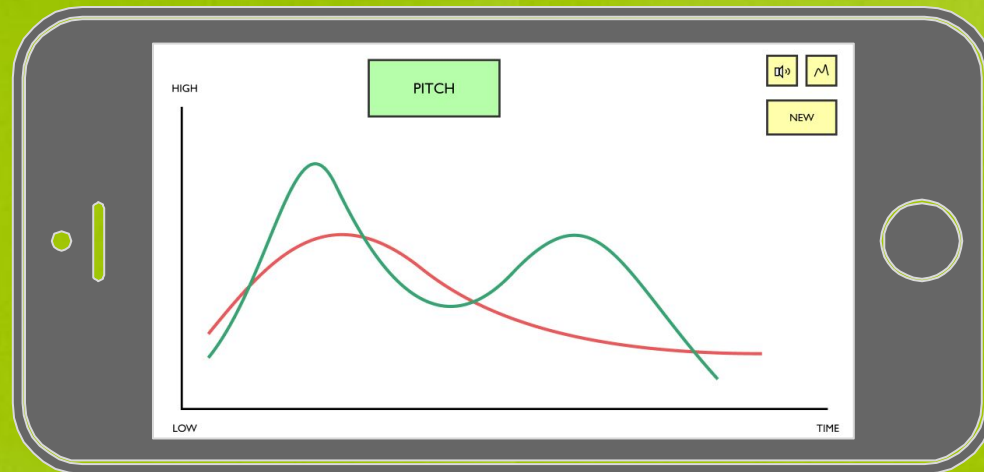
Compose [complex]

Create notes and chords
using simple, intuitive
gestures



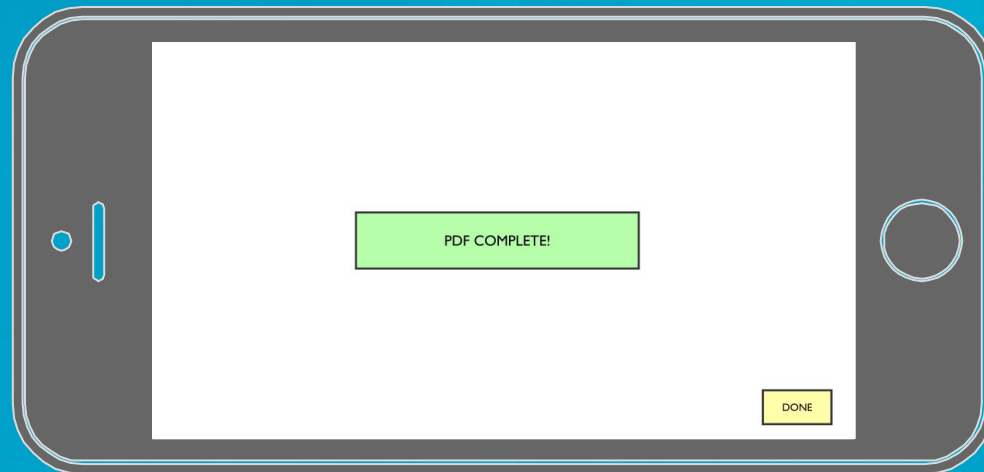
Arrange [medium]

Combine multiple ideas and instruments into a single composition



Transcribe [simple]

Transcribe the composition
to a PDF score to give to a
musician



3.

Revised Interface Design

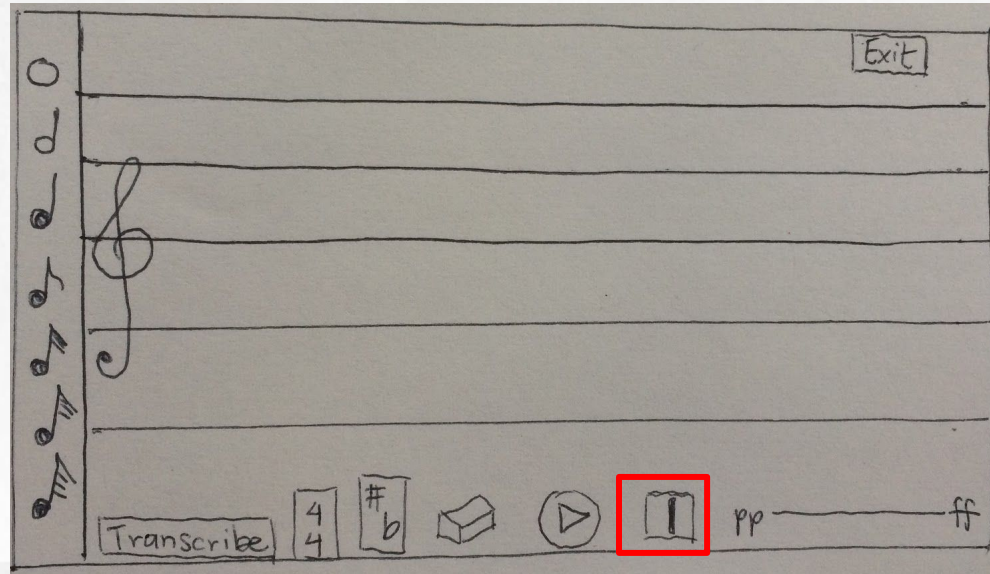
UI Changes

Change #: Improve intuitiveness of musical interface

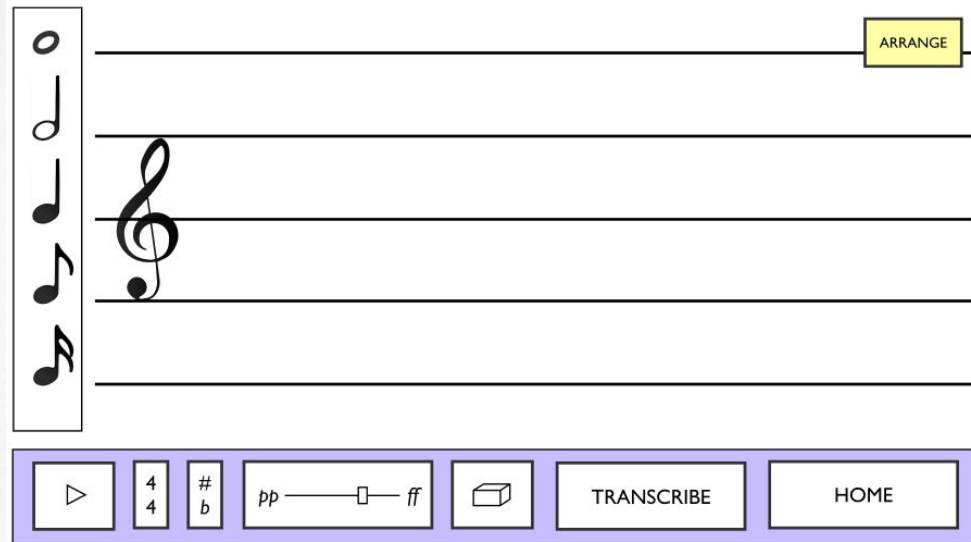
- ▣ Remove “new measure” button: measures are added automatically
- ▣ Redesign “add key signature” screen

Remove "new measure" button

Before

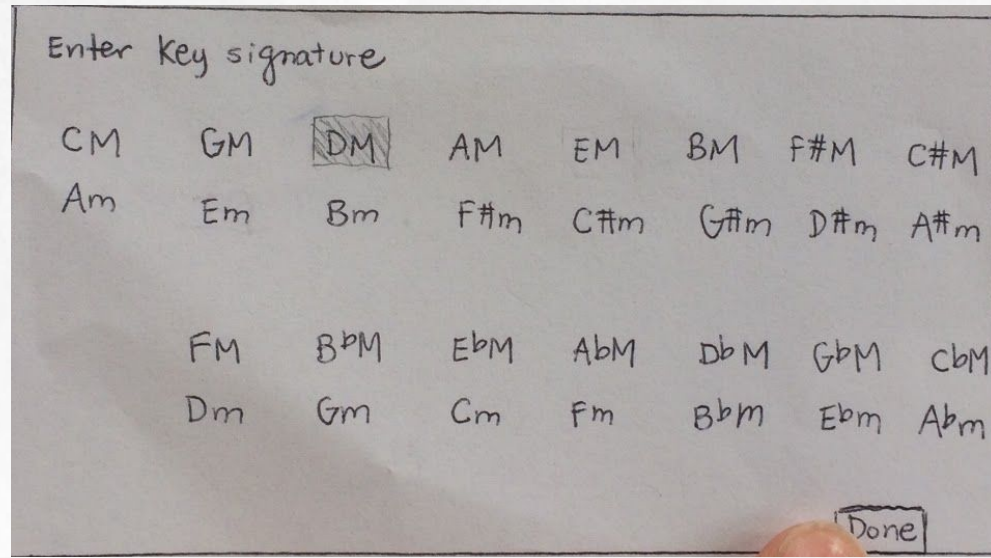


After

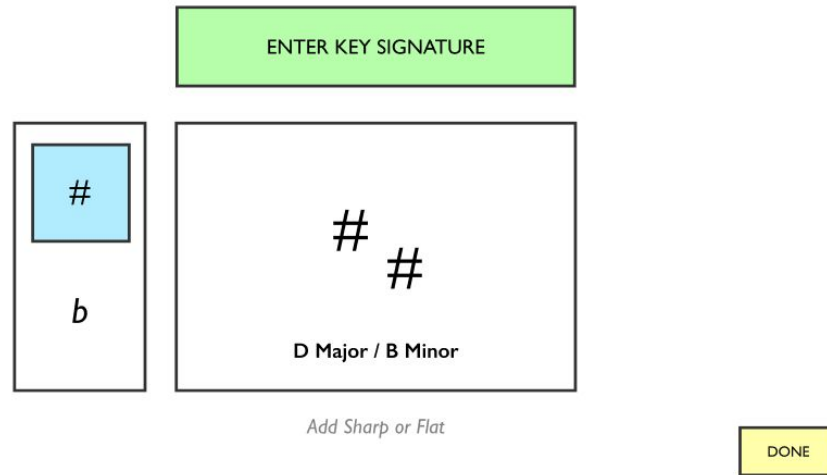


Redesign "add key signature" screen

Before



After

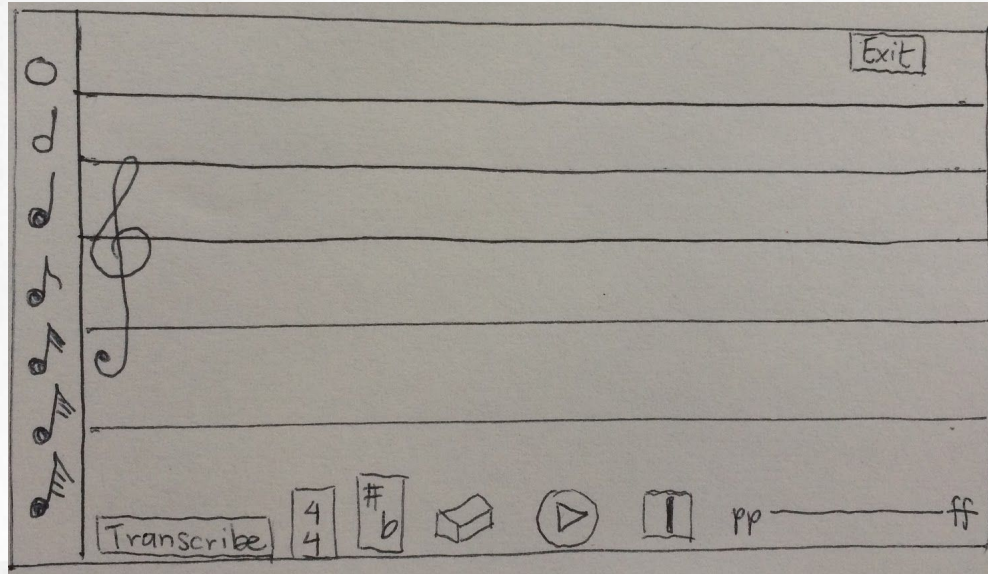


Change #2: Improve navigability

- ▣ Added a home screen and instructions
- ▣ Improved flow between “new composition” and “arrange”
- ▣ Clicking “transcribe” results in a “completion” pop-up message

Add home screen & instructions

Before



After

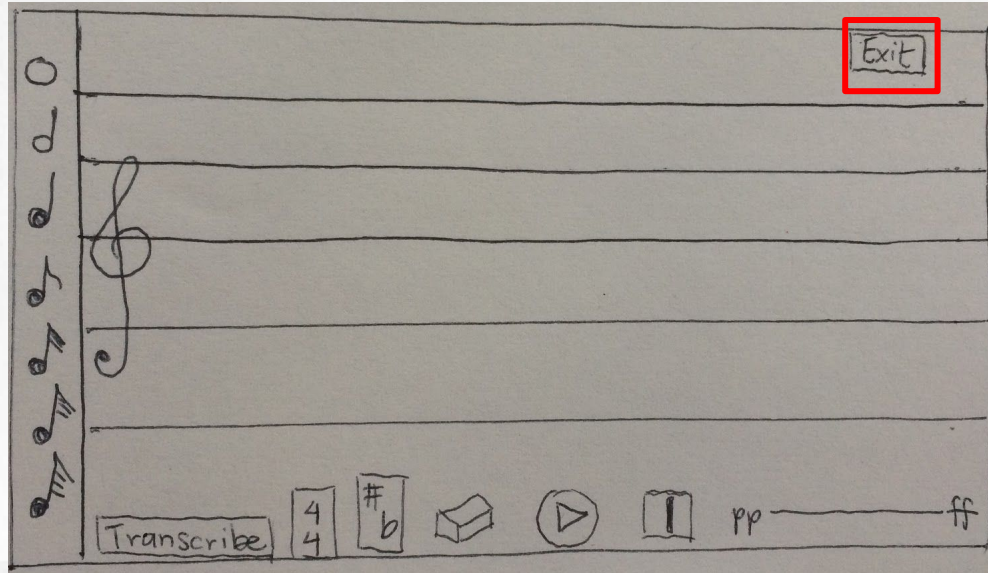
allegro

NEW COMPOSITION

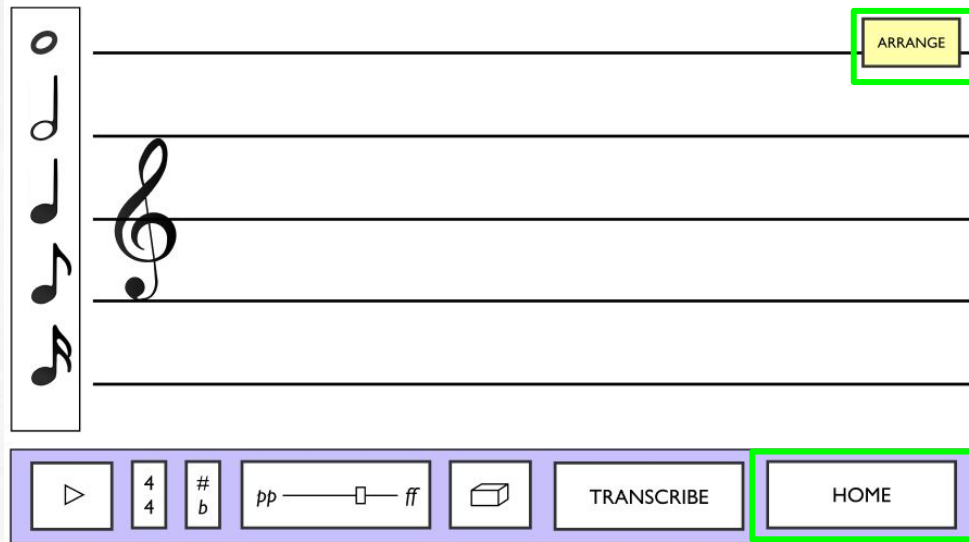
INSTRUCTIONS

Improve flow between "compose" and "arrange"

Before

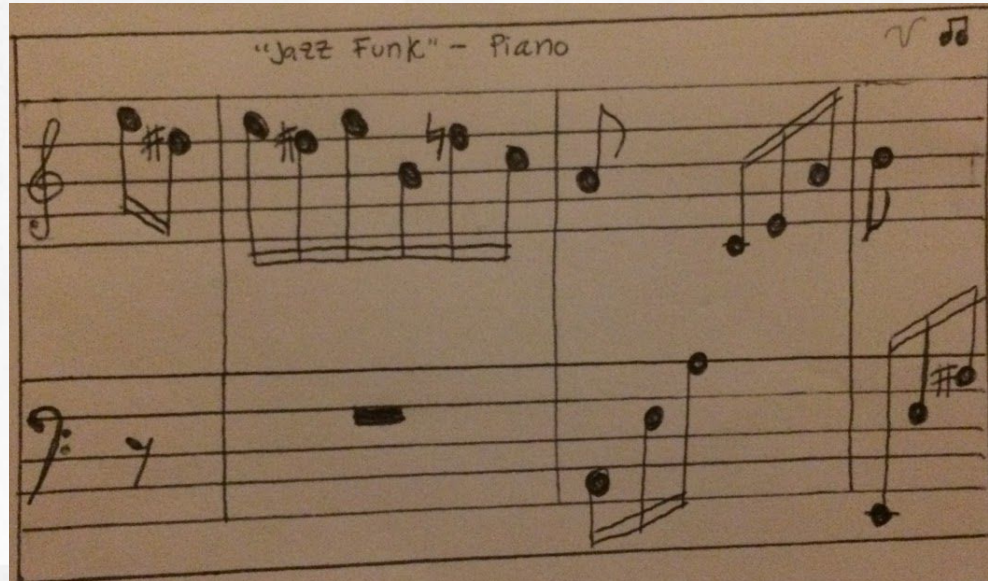


After



Completion message after clicking "transcribe"

Before



After

PDF COMPLETE!

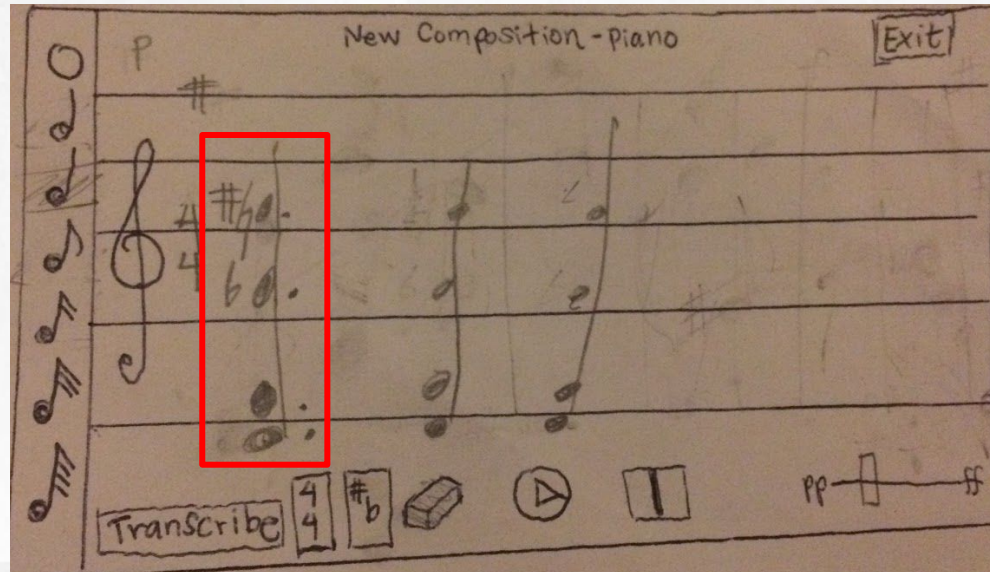
DONE

Change #3: Add chord annotations

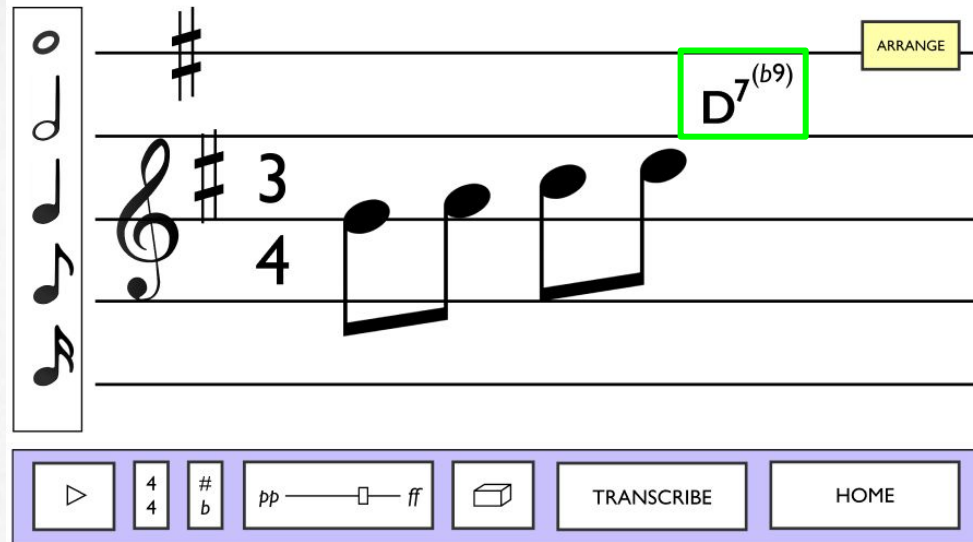
- ▣ Before: chord dialogue box inserts an entire chord
- ▣ Ambiguities:
 - Is the chord in close or open position?
 - Where is the root tone?
 - What duration is it?
- ▣ Solution: chord dialogue just adds Jazz annotations. User can draw chord manually
 - We also allow user to draw multiple tones at a time

Redesign "add chord" dialogue

Before



After



3.

Revised Interface Design

Medium-Fi Task Flows

Compose [complex]

Vertical toolbar with four icons: a whole note, a quarter note, a beamed eighth note pair, and a bass clef. The beamed eighth note pair icon is highlighted with a blue background.

Musical staff with a treble clef and a key signature of one sharp (F#). The staff contains two notes: a quarter note on the second line (D4) and a quarter note on the third line (E4), beamed together. To the left of the notes are the numbers '3' and '4' stacked vertically. A yellow 'ARRANGE' button is located in the top right corner of the staff area.

Play button icon (right-pointing triangle).

Fast forward icon (two right-pointing triangles).

Repeat icon (two vertical bars).

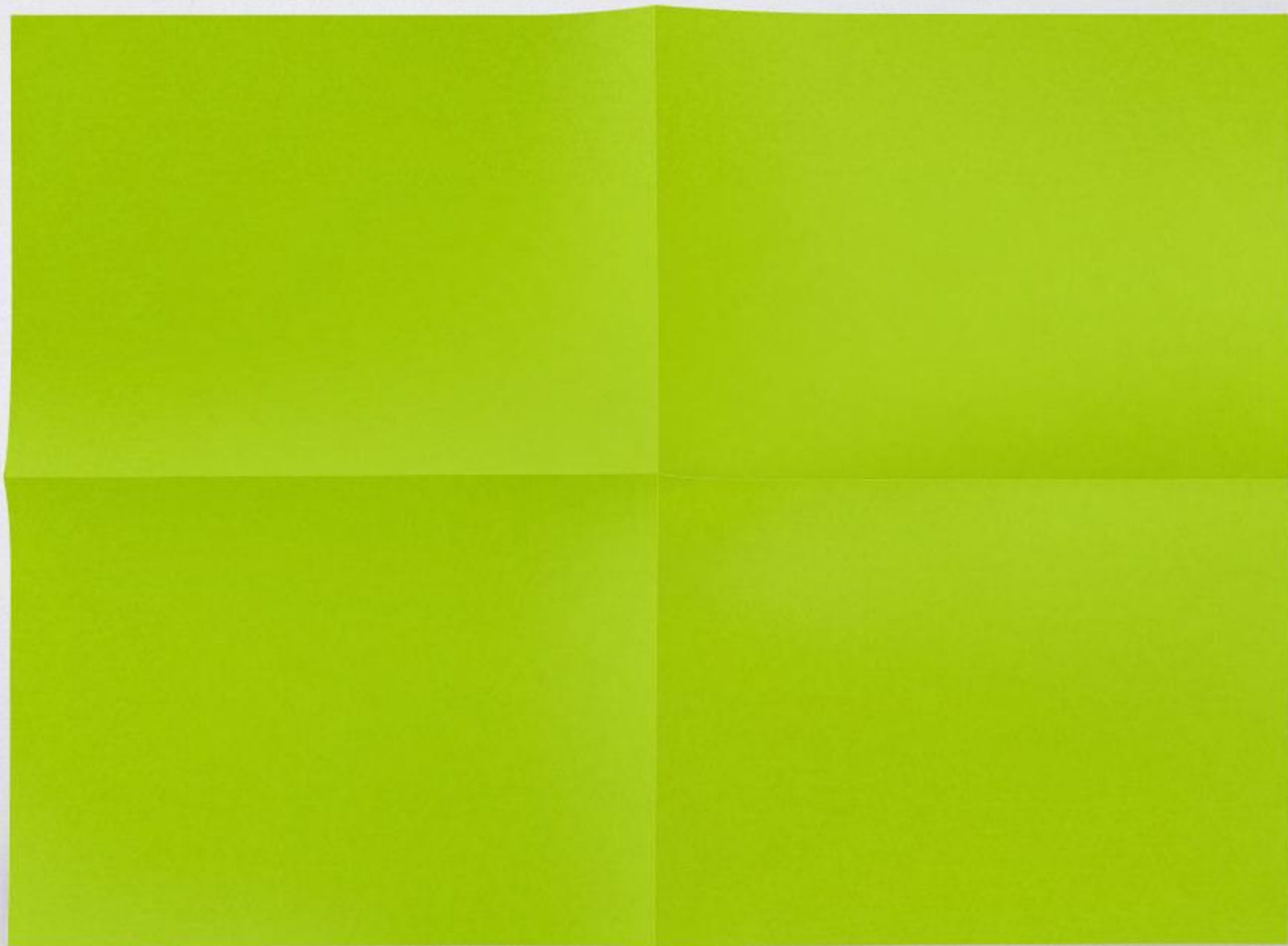
Dynamic range control icon showing 'pp' (pianissimo), a slider bar, and 'ff' (fortissimo).

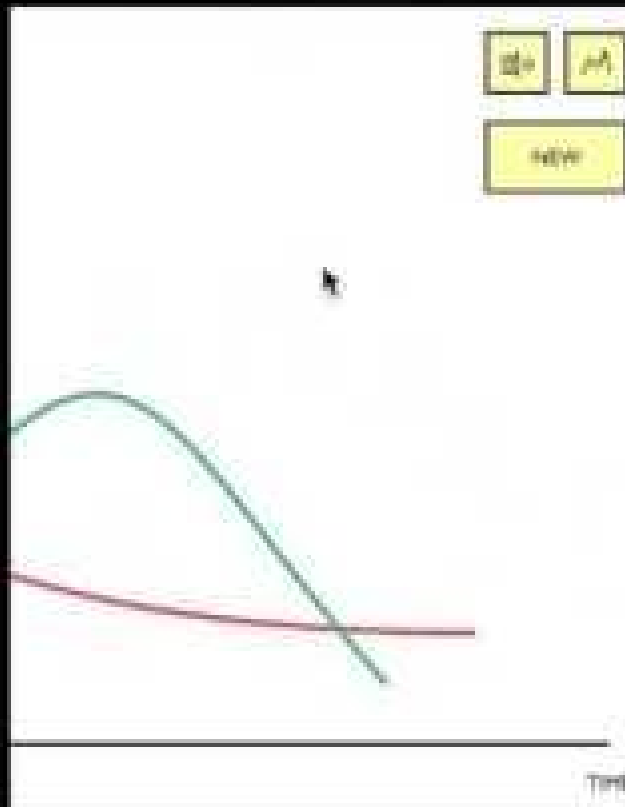
Metronome icon (metronome symbol).

TRANSCRIBE button.

HOME button.

Arrange [medium]





A vertical bar containing musical notation symbols: a treble clef, a bass clef, a quarter note, a half note, and a whole note.

A musical staff with a treble clef, a key signature of one sharp (F#), and a 3/4 time signature. The staff contains two quarter notes on the G line.

A horizontal bar with several icons: a triangle, a 4/4 time signature, a key signature of one sharp, a dynamic marking 'pp', a note, and a fermata.

Transcribe [simple]

PDF COMPLETE

DONE

4.

Prototype Overview

Tools, Limitations, and Tradeoffs

- ▣ Figma to create individual screens
 - ✓ Collaborative; easy to work together
 - Had to create many duplicate screens to show transitions
- ▣ Marvel to animate the demo
 - ✓ Made the app feel more real
 - ✓ Easy to use
 - Limited support for different gestures
 - We couldn't implement certain iOS UI features, such as tickers and sliders

"Wizard of Oz" Techniques

- ❑ You can't *really* create a new composition; there are pre-set touch "hot spots"
- ❑ Time signature and key signature are pre-selected
- ❑ We couldn't animate "continuous" actions such as interacting with sliders and tickers

Thanks!



Any questions?

Credits

Special thanks to all the people who made and released these awesome resources for free:

- ▣ Presentation template by SlidesCarnival
- ▣ Photographs by Unsplash
- ▣ Backgrounds by Pixeden