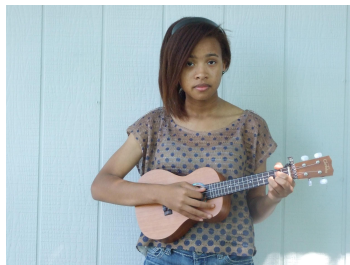


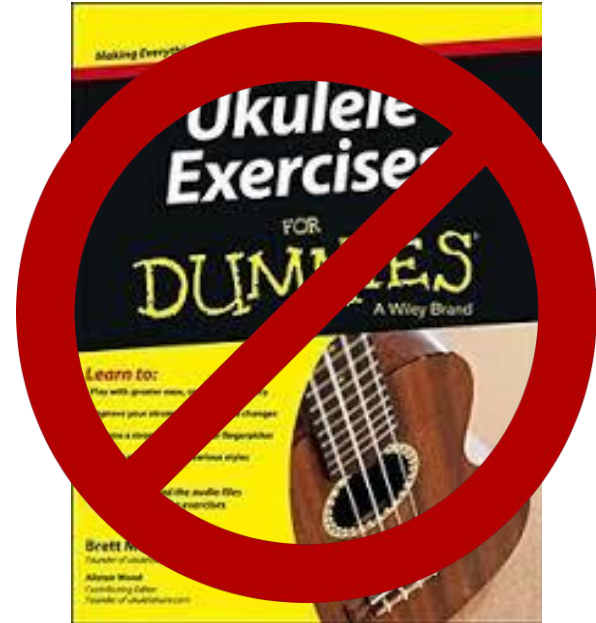
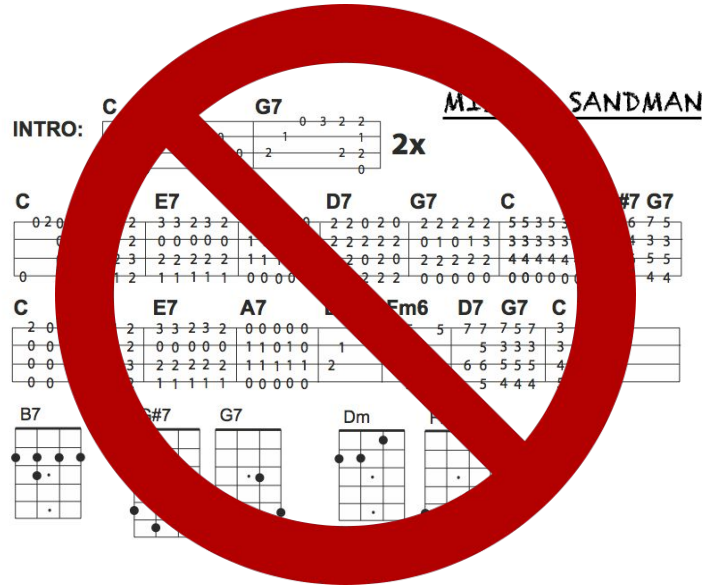


MusicBuddy

Sarah Aladetan & Matias Hanco



Why MusicBuddy?



Features

- Web Platform
- Full-feature remote control
- Neopixel LED-powered chord visualization device

MusicBuddy

Songs:

Riptide

Somewhere Over The Rainbow

Another Song

Everyday

Title:

[Select a Song]

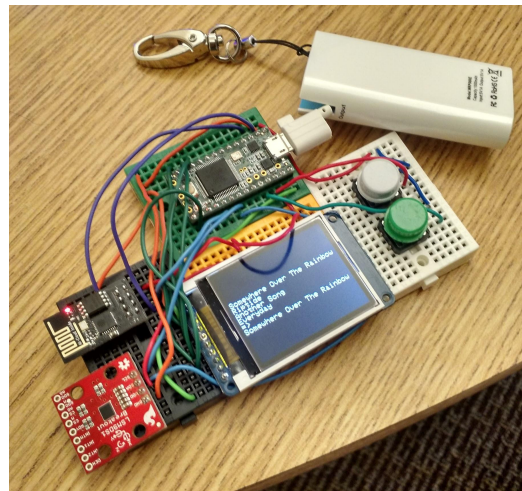
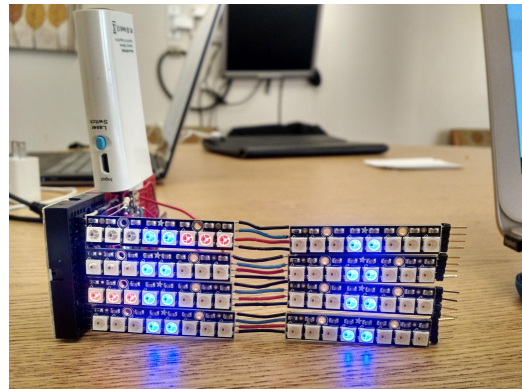
Chords:

[Select a Song]

Remove Song

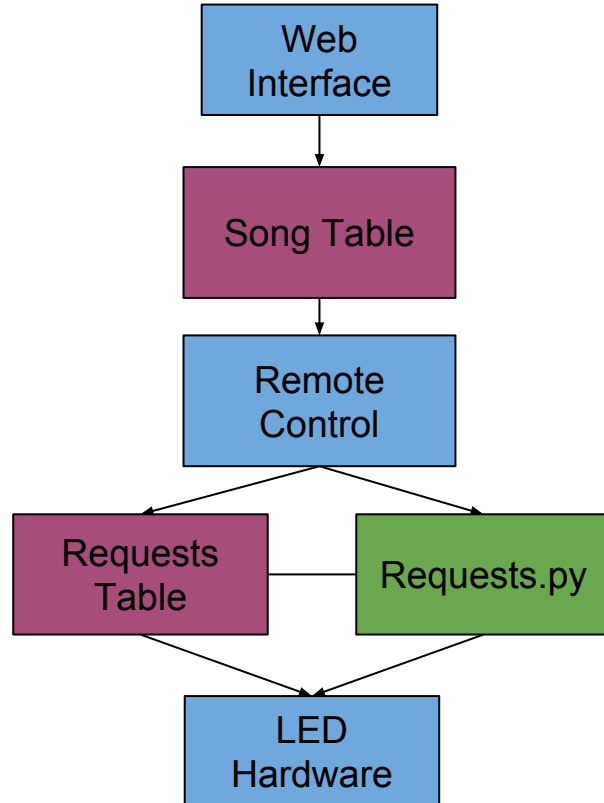
Add New Song:

Title: Chords:



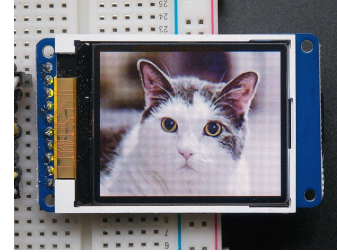
Live Demo

Block Diagram

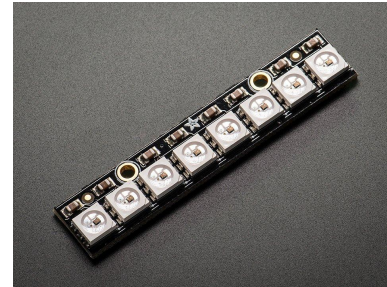


Extra Parts Bought:

- Display - 1.8" Color TFT LCD display with MicroSD Card Breakout - ST7735R

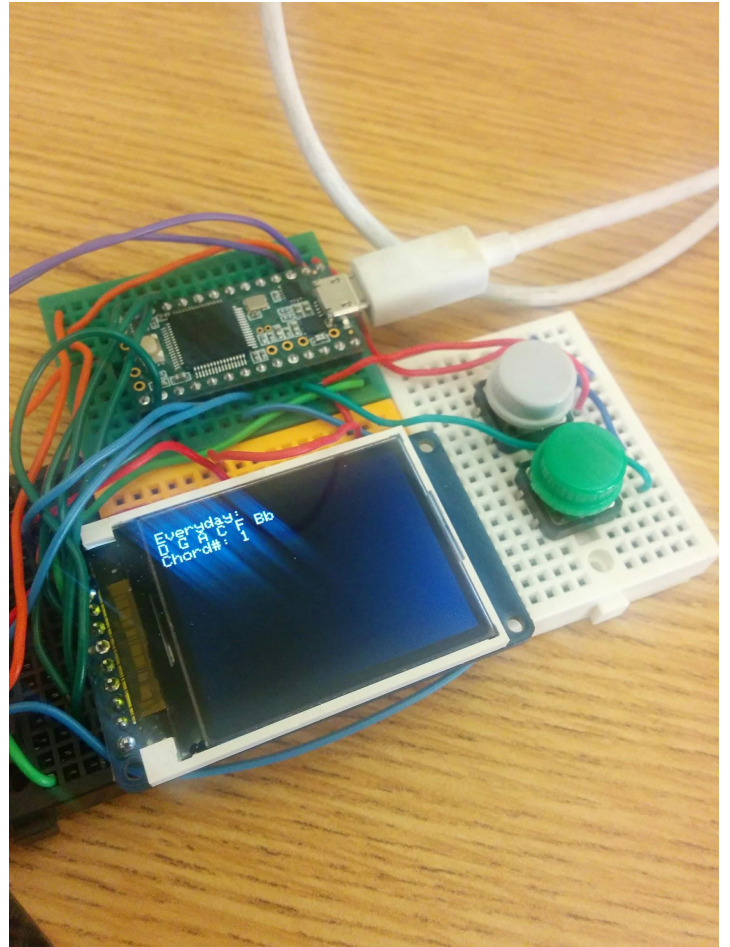


- LEDs - NeoPixel Stick - 8 x 5050 RGB LED



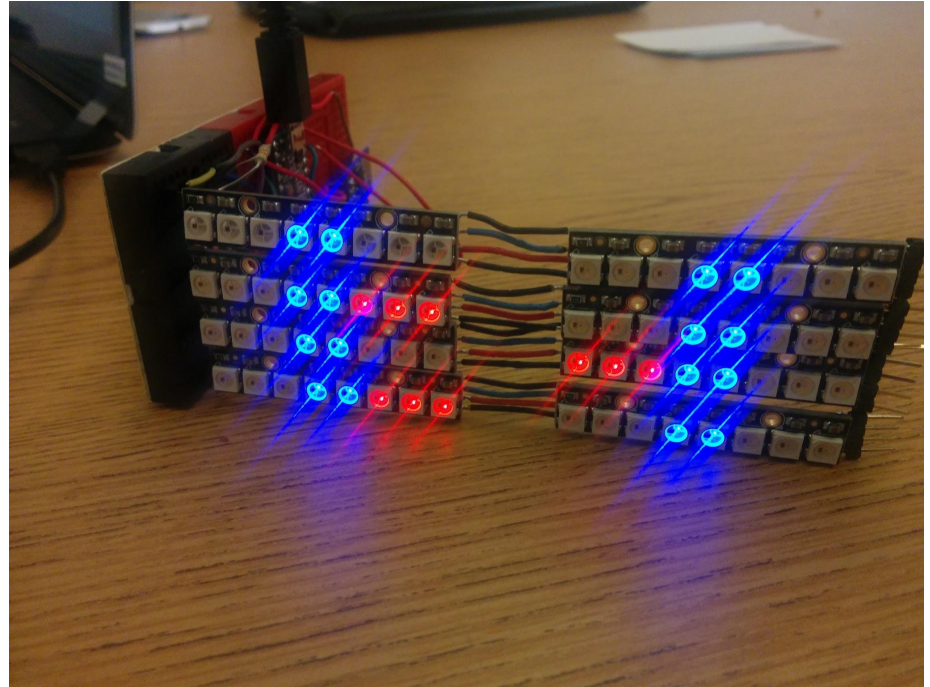
Challenges

- NeoPixel Strips being unresponsive
- Installing new display
- Incorporating power management features
- Splitting strings in Arduino C/C++



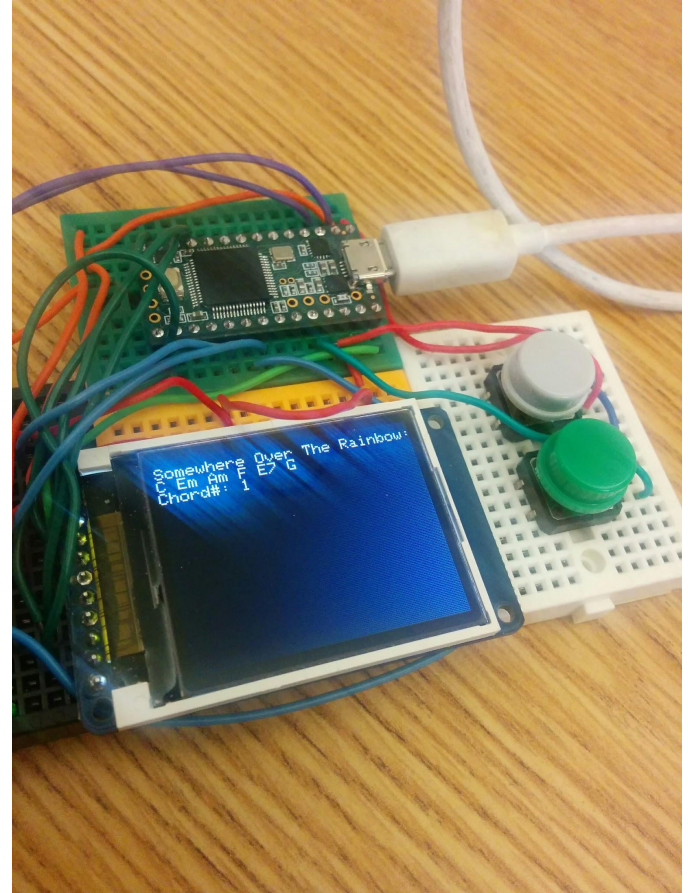
What We Learned

- Figuring out how to work with new hardware
- Team collaboration
 - Shared repository
- Being open to advice
- Web development/SQL skills



Next Steps

- GPS locator - Jamming with Friends
- Tuner
- Phone app to replace remote control
- Solder both LED and remote component
- Package components in 3D printed encasing



Questions?