

ChordConstructor User Guide

Michael Li

CS 15 Indy Project

1 Introduction

My Indy project is a program that constructs and plays triads chords in a given key. The chords are displayed on a single staff as whole notes with accidentals. The clef is fixed to treble, and the notes range in pitch from C4 to B4. The audio files are sampled from a piano, and contain one note each.

2 Usage

2.1 Choosing a key

At the start of the program, the user is presented with a series of buttons, each representing a key.

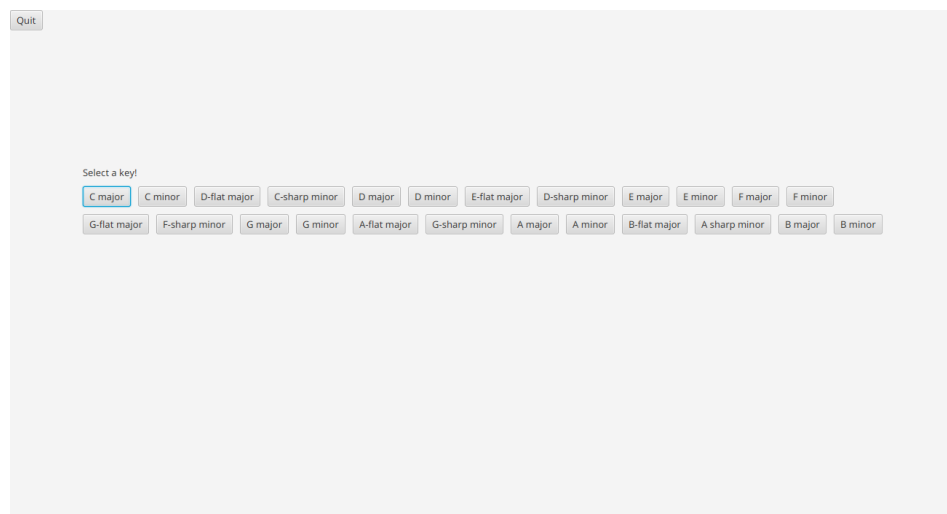


Fig. 1. Initial key selection

2.2 Choosing a chord

Upon choosing a key, the user is presented with a series of buttons representing chords by roman numeral, a clear button, and a staff with treble clef. The roman numerals are consistent with the quality (major or minor) of the key that was selected by the user.

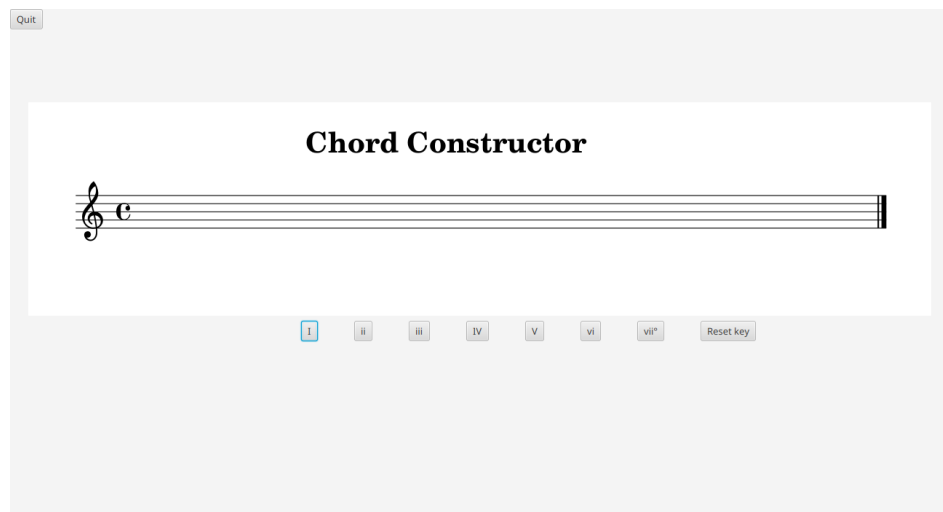


Fig. 2. Chord selection

After selecting a chord by its roman numeral, the chord appears on the staff and the notes play.

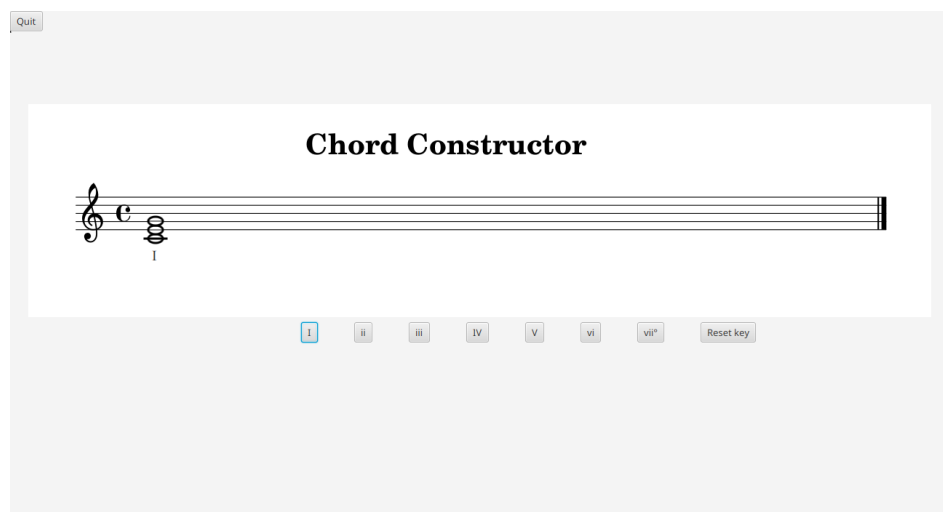


Fig. 3. Tonic triad of C major displayed on the staff, with roman numeral underneath

With a chord displayed on the screen, the user may select another roman numeral button to erase the current chord and display the new chord on the screen. If the same button is selected, the chord will stay on the screen and will be played again.

The user may also select the "Reset key" button to return to the initial page.