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GROUP 10

TALKBOX CONFIGURATOR APP
TALKBOX SIMULATOR

Introduction/Features

TalkBox is a device that helps anybody, who is unable to talk, communicate. Each TalkBox has a number of buttons that the user can press to play pre-recorded audio files.

The main purpose of the TalkBox Configurator App is to specify the behaviour of your TalkBox. The Configurator app's user interface is through a computer.

Some of the behaviour the user will be allowed to specify is:
-the sound clip played on user's touch of a button
-the images associated with the respective buttons

Features are:

-Record audio

-Display pictures

-Play audio through a simulation of a real talkbox

-Log actions of app

How to install

Prerequisities:

Java Runtime
-Java(TM) SE Runtime Environment (build 1.8.0_201-b09)

Supported Operating System
Windows 10

Minimum Hardware Requirements:
1.6 GHz or faster processor
1 GB of RAM (1.5 GB if running on a virtual machine)
50 MB of available hard disk space
5400 RPM hard drive

Install Instructions
1. Create directory. In this example I call it talkbox in my downloads folder.
2. Copy the jar file to the created directory
3. Double click on jar file to run

This will be a typical folder with a jar file in it. These are all the files in the folder. The recorded audio files will be saved to "TalkBoxRecording". The log file is called "myLogger.log"
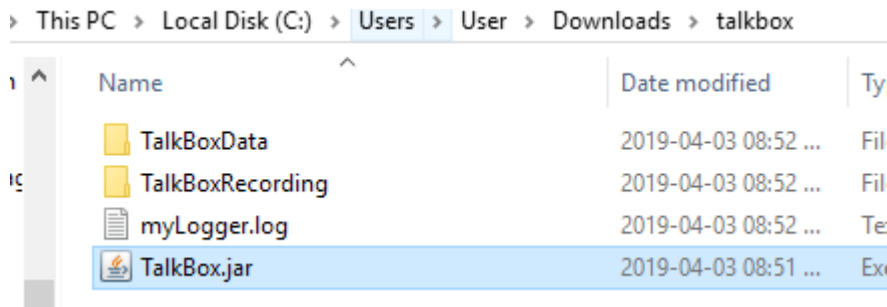

Figure 1.

Diagram/Description of Screens

Let's say you have a talkbox with 8 buttons total, 6 audio, and 2 swaps. You also have 4 audio sets. When you run the jar file, you will want to put this into the window that pops up:
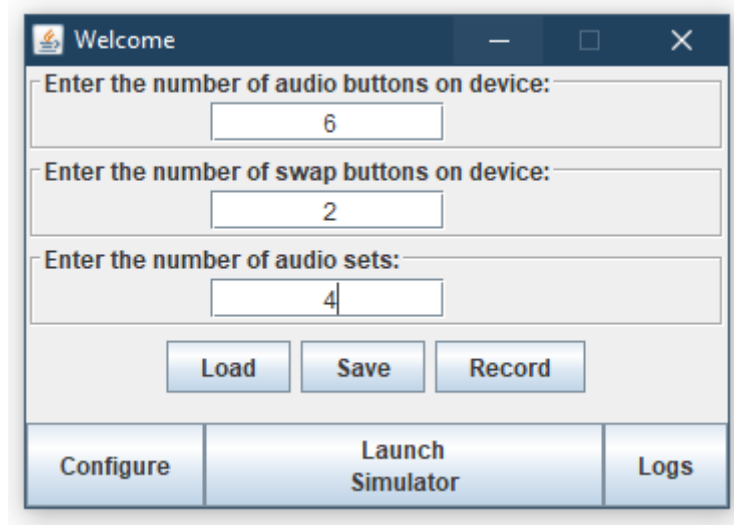

Figure 2.

Now, you want to configure your talkbox. So press configure button. On your configuration you want audio set 1 to have images at audio button 2 and 4. And you want audio button 4 and 6 to play sound. This is what a final result would look like
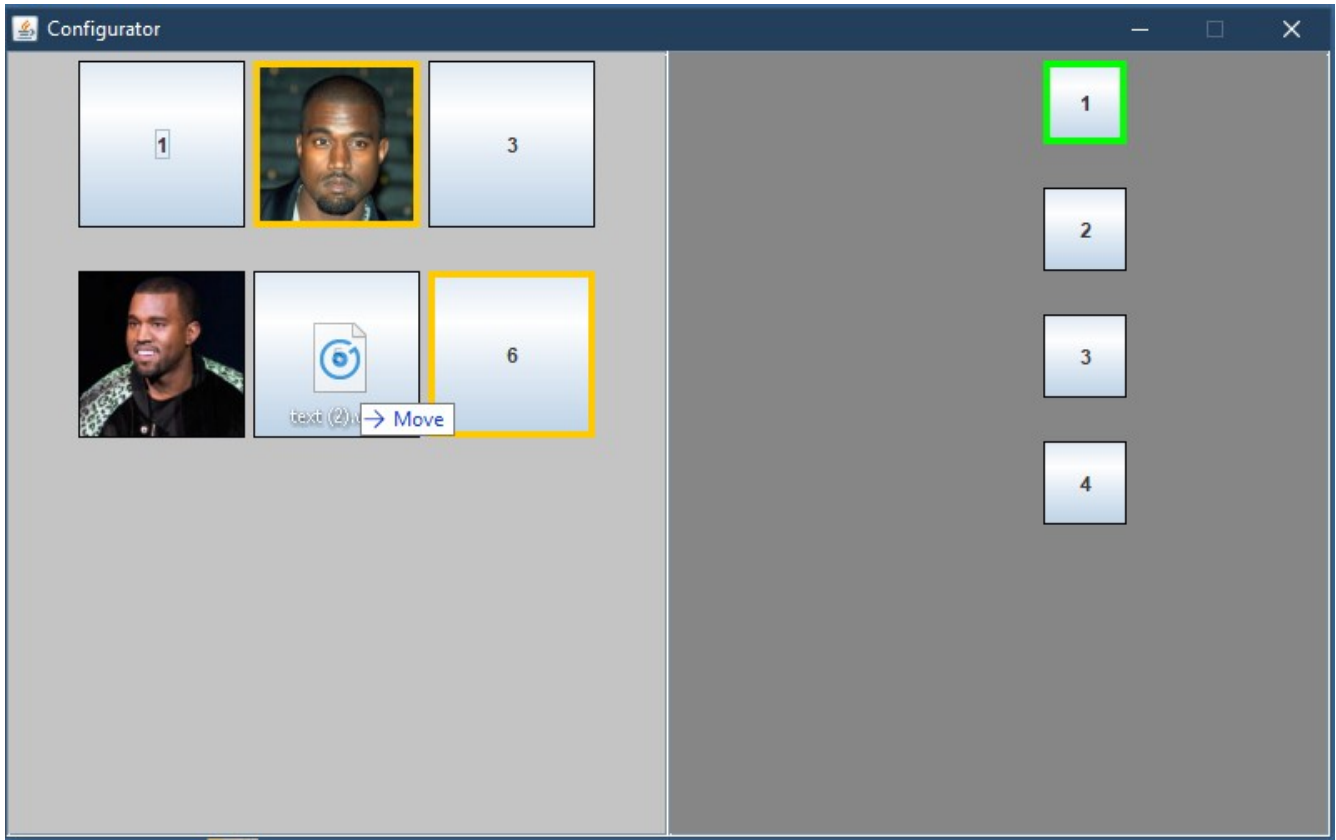
Figure 3.

Look at the light grey background panel (left side of screen). The orange border on the button indicates an audio file has been placed. The number indicates the order in which the audio button will appear in the simulator. So this picture meets our specifications. Buttons 4 and 6 have a orange border, which means audio files were placed there. Buttons 2 and 4 have pictures. But how do we know we did this for audio set 1? Look at the dark grey background panel (right side of screen). The button with 1 inside it has a green border. This means we configuredthe audio buttons for audio set 1.

How do you set the files? You just drag and drop your files onto the buttons. The button will accept pictures in .jpg form and sound in .wav. The configuration app only displays audio buttons, not swap buttons.

Now let's say you want to also configure audio set 3. You will have to click the button with 3 in it on the right side of the screen. Then that button will have a green border. To configure audio set 3, you want to add audio to buttons 3, 4, and 5, but no pictures on any. It would look like this
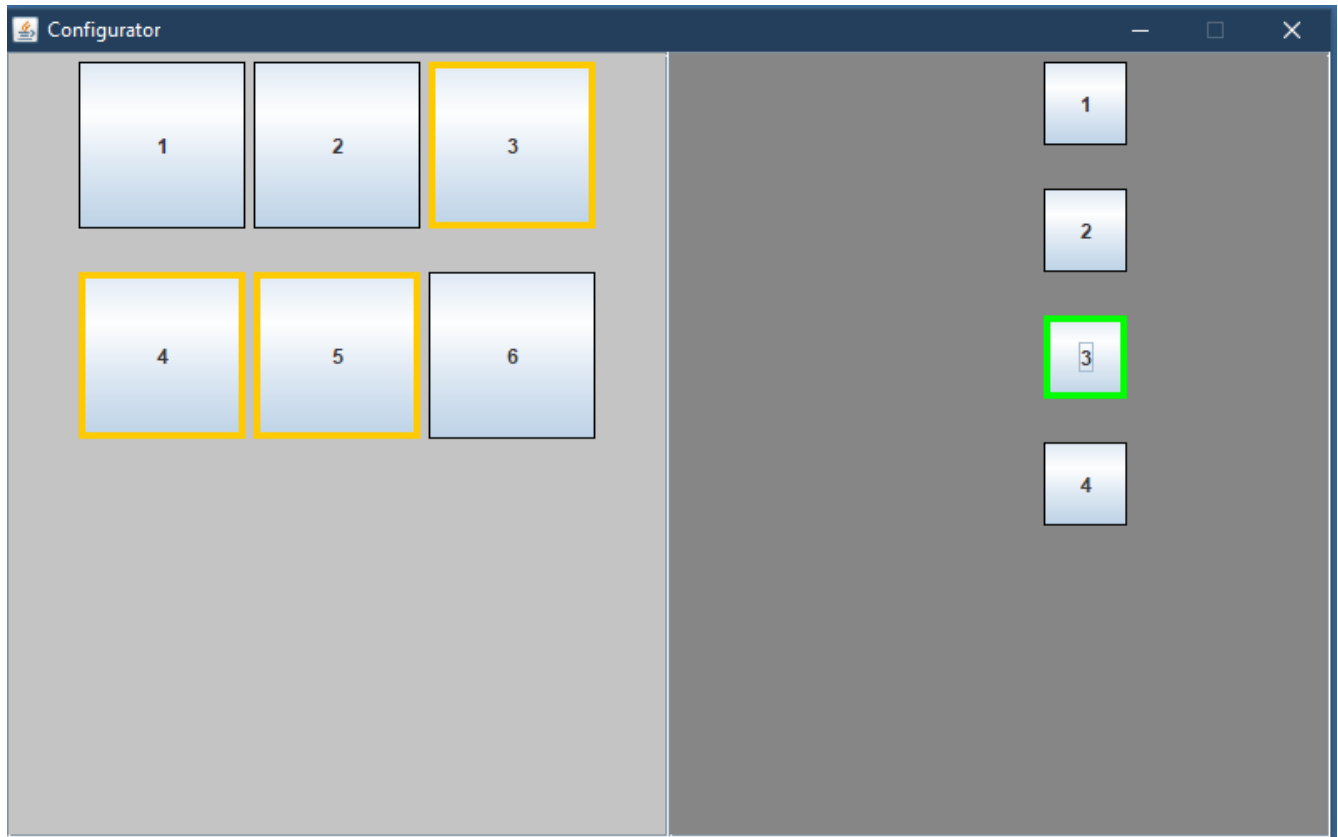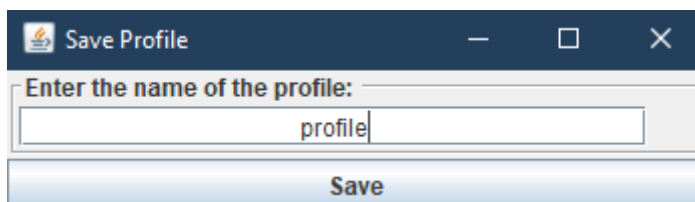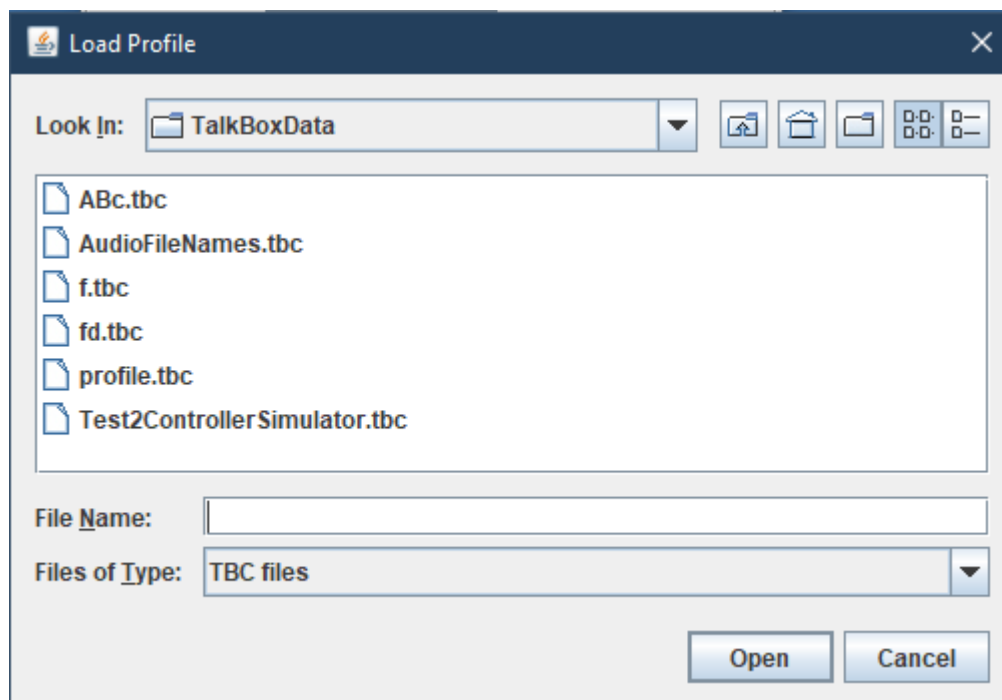

Figure 4.

Now, you want to run the simulator for the talkbox. These are the steps. Look at figure 2. This is the main window. You want to press the save button. Let's say you want to call this configuration "profile". This screen will come up. You typed in your name
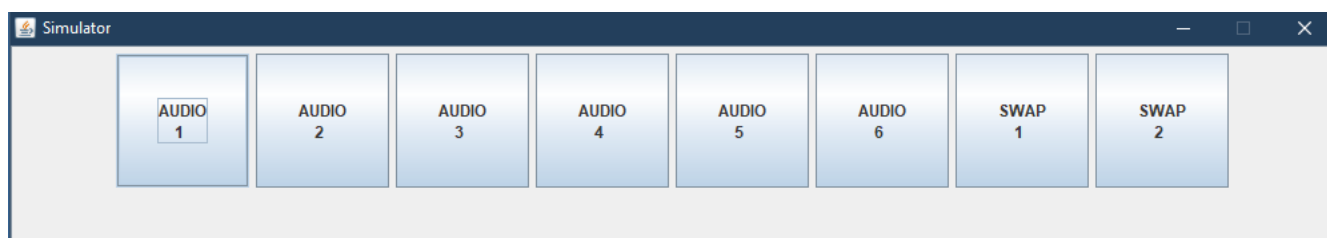

Now press the button save.

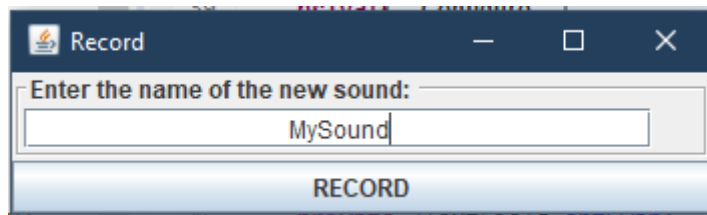Now the next step is to load your configuration. Press button load on main window. You will see this screen.

You will be in a folder called TalkBoxData. Select "prfofile.tbc" and press open. Now you can press launch simulator on the main window (Figure 2). For our configuration we will see the following.
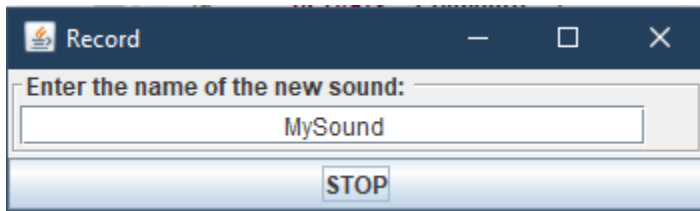

And that's it! Always do this to simulate a talkbox. First press configure. Then save your configuration. Find that configuration and load it. Then press launch simulator.

NOTE: If you want to create a talkbox with a different setup (diff num of audio buttons, swap buttons, audio sets), you will have to close the app and enter the new setup. You can make as many configurations of this setup as you like.

Now. Recording audio. Press the record button on main window. Let's say we want to call our file "MySound". You will see this:

Now press record. You will now see this

Press stop when you are finished recording. You will be directed to a directory called TalkBoxRecording (Figure 1) with your file in it. You will now be able to use this file in your configuration app.