

User Manual for VOXSPELL Spelling Aid

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System Requirements

The VOXSPELL program has the following system requirements:

- The program is run on a UNIX based operating system (the program should work on Linux or OSX for instance)
 - That operating system has BASH (Bourne Again SHell) installed
 - That operating system has Festival Speech Synthesiser installed
 - That operating system has a recent JDK (Java Development Kit) installed (see Installation Instructions)
- The computer was purchased within the last ten years (so is relatively recent).
- There is at least 50MB (megabytes) of storage available.

Installation Instructions

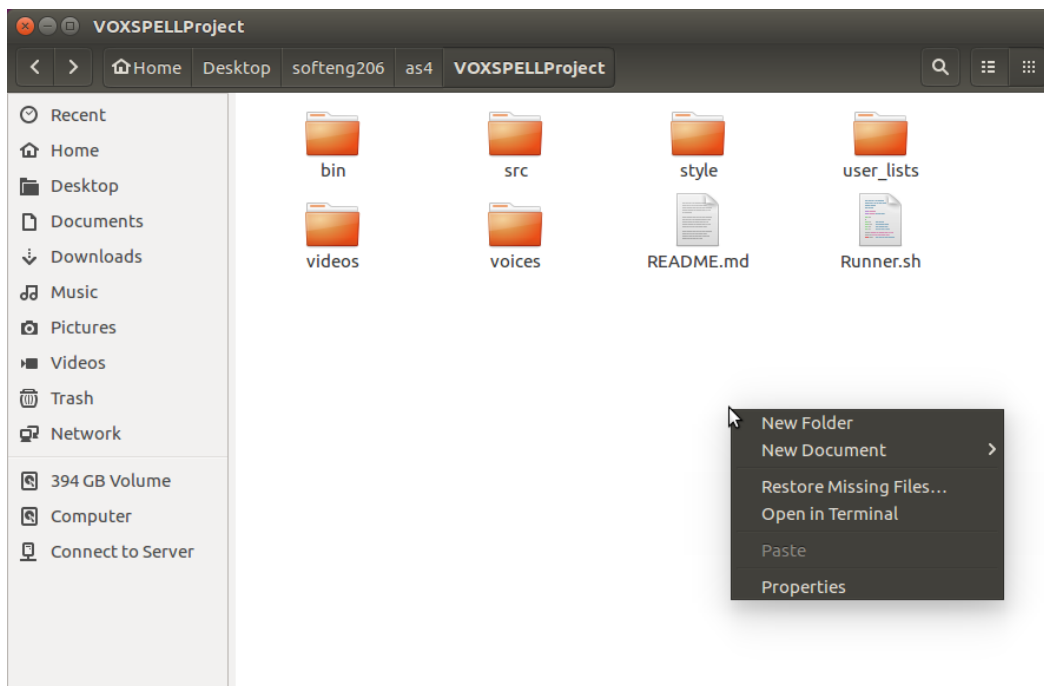


Figure 1: Installing the Application

The first thing to do to use VOXSPELL, is to install the program in a convenient directory. If you can read this file, then you have already installed VOXSPELL! After that, to run the program, you need to open a terminal window and navigate to the directory where VOXSPELL is located. On some versions of Ubuntu, this is as easy as right-clicking in the window that VOXSPELL is located in, and selecting 'Open in Terminal', as shown in Figure 1. If this doesn't work, open the Ubuntu terminal application and navigate to the directory that contains VOXSPELL. For me, this would mean entering 'cd Desktop/softeng206/as4/VOXSPELLProject'. If VOXSPELL is in a different directory, then enter 'cd "Your directory"'. Once you are in the correct directory, enter in the terminal 'bash Runner.sh' as shown in Figure 2.

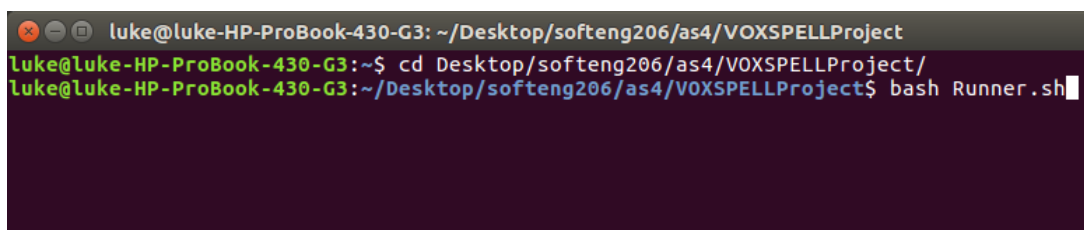
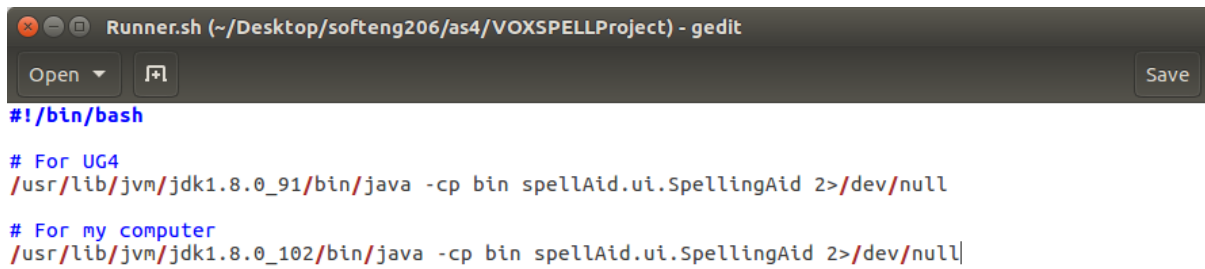


Figure 2: Running the Application

If this step doesn't work, then it is possible that the Java Development Kit (JDK) is not installed in the correct directory, or the JDK version is different than the program expected. Ask your system administrator to install a JDK and change the 'Runner.sh' file to use that JDK instead.

A screenshot of a gedit text editor window. The title bar reads "Runner.sh (~/Desktop/softeng206/as4/VOXSPELLProject) - gedit". The window has a dark theme. At the top, there are buttons for "Open" (with a dropdown arrow) and "Save". The main text area contains the following script content:

```
#!/bin/bash

# For UG4
/usr/lib/jvm/jdk1.8.0_91/bin/java -cp bin spellAid.ui.SpellingAid 2>/dev/null

# For my computer
/usr/lib/jvm/jdk1.8.0_102/bin/java -cp bin spellAid.ui.SpellingAid 2>/dev/null|
```

Figure 3: Typical Application Runner Script

Figure 3 shows an example of what the 'Runner.sh' file looks like (note, actual 'Runner.sh' may look slightly different). Changing the JDK used is as easy as changing the path of the "java" executable as shown in the picture. Once the JDK is installed and the 'Runner.sh' file is modified to use that JDK, running the command 'bash Runner.sh' should display the main menu of the application after a few seconds.

New Quiz

When you start the application for the first time, you will see a screen that looks like this.

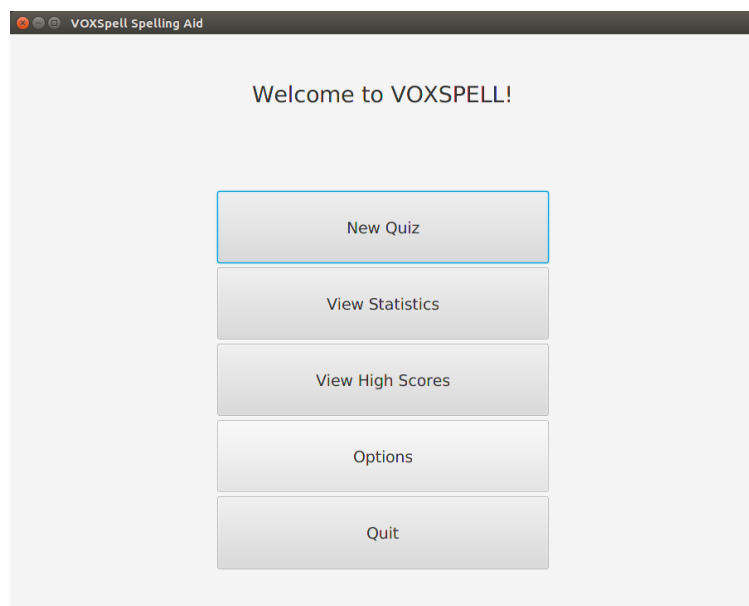


Figure 4: Main Menu Screen

This main menu screen displays all the options available to the user (Figure 4). 'New Quiz' is the first option. 'New Quiz' takes the user to a quiz screen from which the spelling test is run. This application comes with a quiz already loaded. However, if you want, additional quizzes can be loaded into the application from the options menu. Clicking 'New Quiz' displays a screen that looks like this (Figure 5).

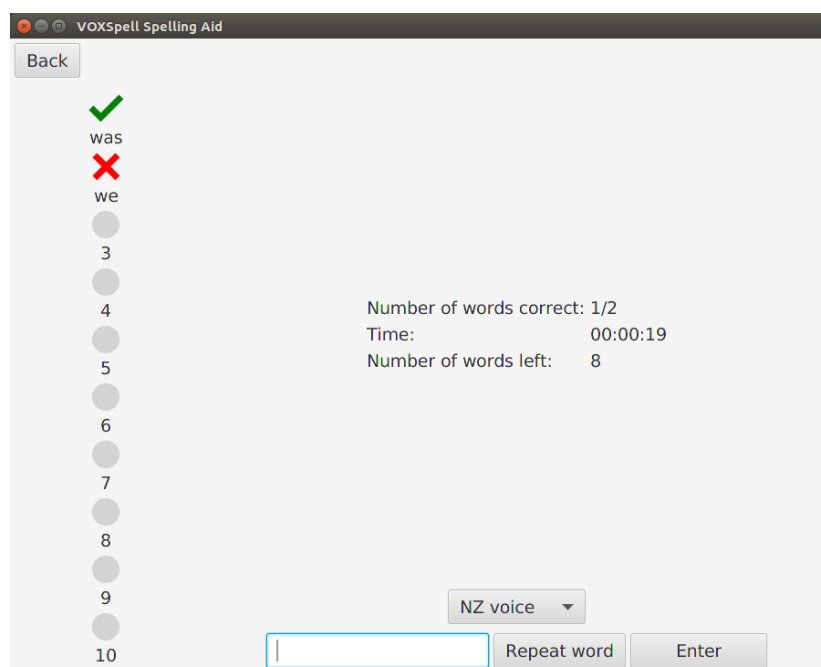


Figure 5: Typical Quiz Screen

In this screen I have already tested myself on two words. The column on the left displays my results for each word. The first word 'was', I got correct. This is shown with a tick. The second word 'we' I

got wrong, this is shown with a cross. In the centre of the screen is the quiz progress which displays how many words I have gotten correct so far, the time taken so far, and the number of words I have left. At the bottom of the screen is where the testing takes place. There is a field to enter words, a button which speaks the words, a dropdown box to change the voice of the speaker, and a button to enter the words. At the top of the screen is a back button that will take you back to the main menu. Once a test has begun, you can enter the spelling of a word by typing the word into the text box. After that, you can enter the word by clicking the 'Enter' button or by pushing the 'Enter' button on your keyboard. After you have finished a test, a pop-up will tell you how well you did on the test. If you get all the words correct, the pop-up will ask you if you would like to use the video editor. If you click yes, the following screen will appear (Figure 6).

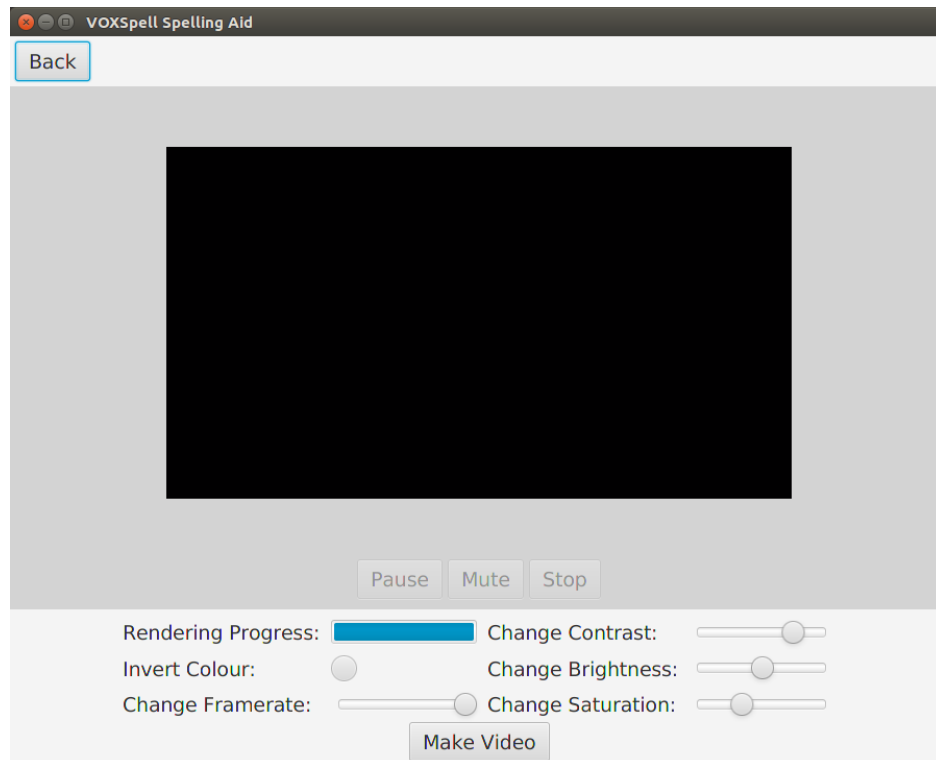
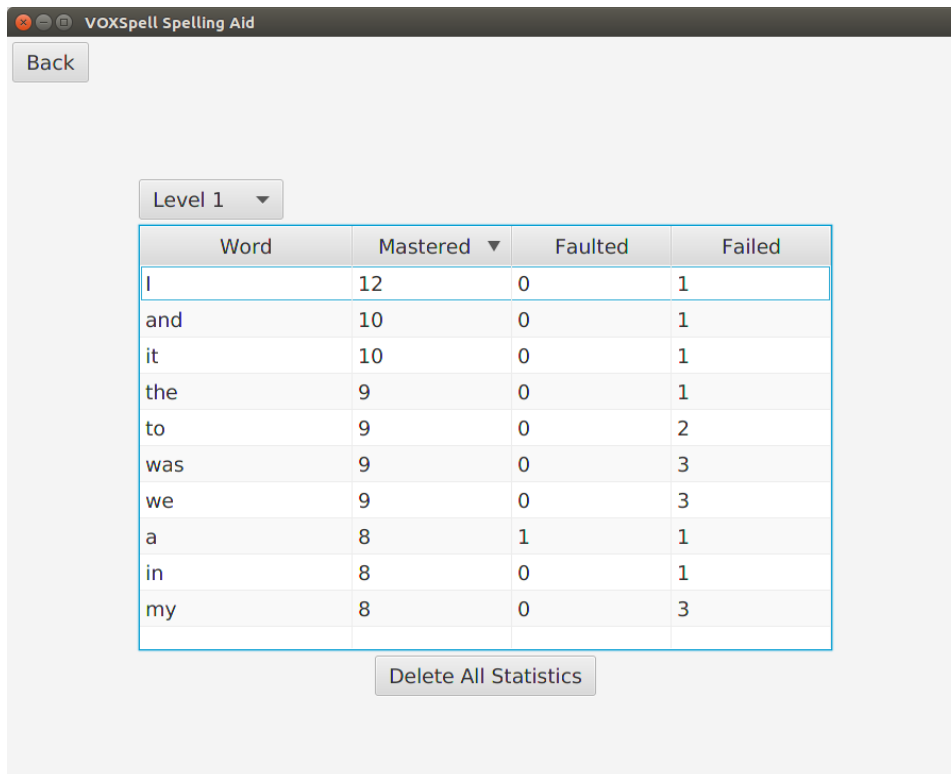


Figure 6: Video Editor

At the top of this screen is another back button which will take you back to the quiz so you can see your results, if you like. The centre of the screen is where your edited video will appear. The bottom of the screen has a number of sliders and buttons to adjust certain properties of the video. Once 'Make Video' is pressed, the edited video will begin rendering. The progress of this rendering can be seen from the 'Rendering Progress' progress bar. For a small video, rendering will take a few seconds. For a large video, rendering can take many minutes. After the video is rendered, it will start playing on the screen so you see what changes you made. Pressing the back button two times takes you back to the main menu.

View Statistics

The next screen is the statistics screen, if you played through a particular level, you will already have statistics (Figure 7).



Word	Mastered ▼	Faulted	Failed
I	12	0	1
and	10	0	1
it	10	0	1
the	9	0	1
to	9	0	2
was	9	0	3
we	9	0	3
a	8	1	1
in	8	0	1
my	8	0	3

Figure 7: Typical Statistics Screen

This screen lists all the words that you have been tested on, and how well you spelled the words. A word is 'Mastered', if you spelt it right first time. A word is 'Faulted', if you spelt a word wrong the first time but correctly the second time. A word is failed if you had two tries and spelt the word wrong both times. On this screen, you can also view the statistics for other lists. Finally, you can 'Delete All Statistics', this should be done only if you are sure that you want to delete all the statistics for all the words tested. Pressing the back button takes you back to the main menu.

View High Scores

The next button on the main menu takes you to the high score screen. This screen displays how quickly you completed a quiz and who did it (in case multiple people are using this application) (Figure 8).

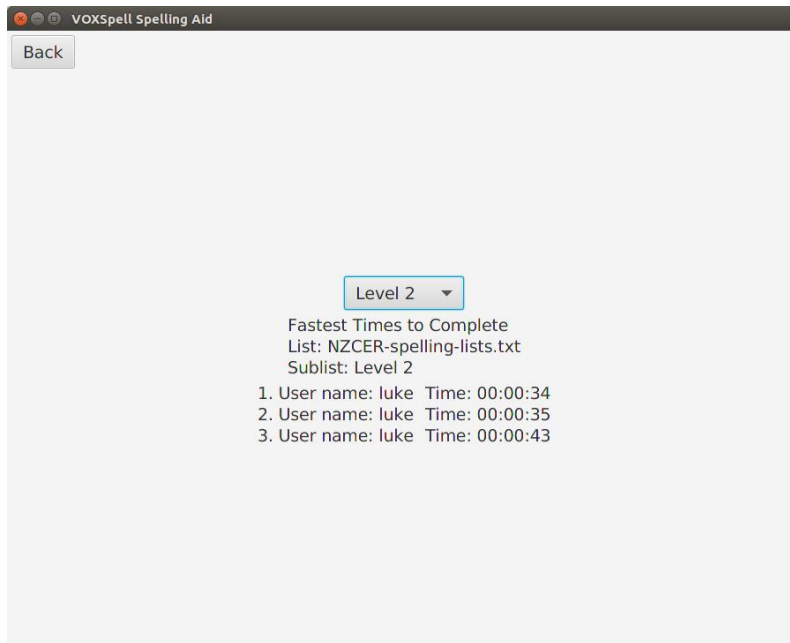


Figure 8: Typical High Score Screen

These high scores are recorded automatically when you complete a quiz. The 'List:' section displays the current file that is being used to create the lists and the 'Sublist:' section displays the current section of the list that is being used. You can also use the drop down menu to select which sub list you want to view to view the high scores for. I will talk about how to create your own lists later. The 'User name:' section displays who got the high score. The 'Time:' section displays the time taken in hours, minutes and seconds. Pressing 'Back' takes you back to the main menu.

Options

The final screen is the options screen. This screen allows you to select the voice for the quiz, the text file you want to use for the list, and the specific part of the text file you want to get the words from.

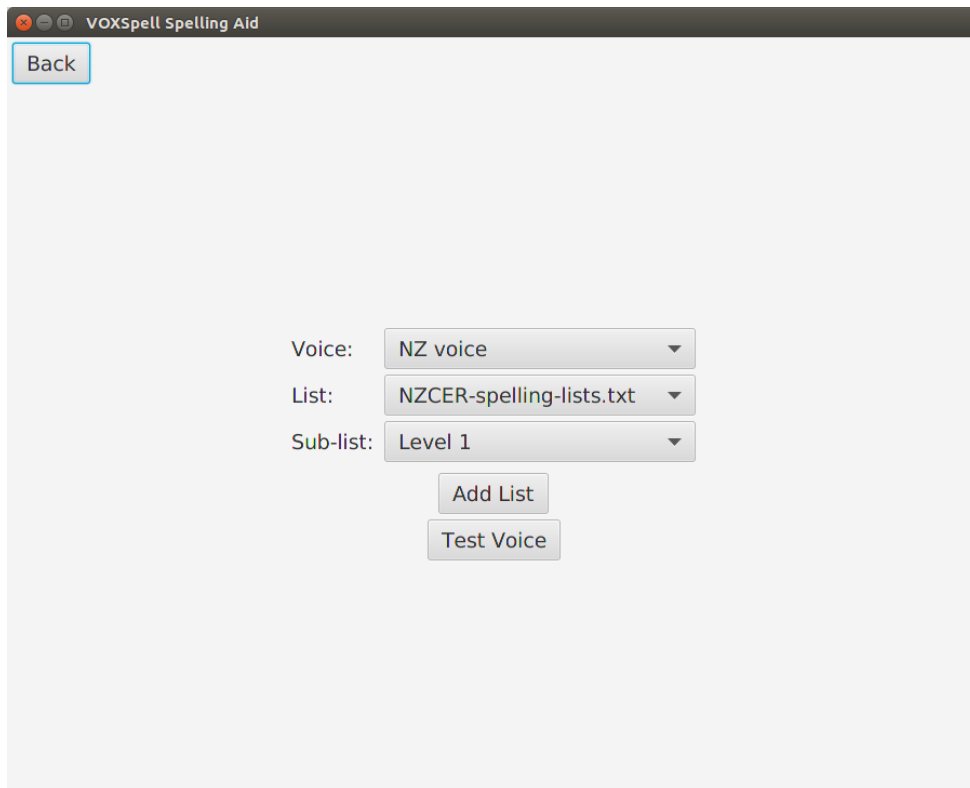


Figure 9: Options Screen

Additionally, you can test the voice you select. The 'Test Voice' button simply says a phrase so that you can easily judge which voice you like best. This screen also allows you to add your own list. There are several requirements for adding a list. Firstly, the list must have the '.txt' file extension. Secondly, the first line of the list must start with a '%' character and be followed by some heading such as 'Fruit', this line becomes a heading. For example, '%Fruit' creates the new heading 'Fruit'. After the first heading, you can put any number of words and headings in the file. Each word and each heading must be on a separate line of the file. If you wish to remove a list from the application, simply delete or move the list somewhere else, this will remove the ability to select the list from the application. Once you have created a new '.txt' file to select words from, simply add the file by clicking 'Add List' and selecting your new list to open. After a list is added you can change the list and sub list as desired. Pressing 'Back' takes you back to the main menu screen.

When you are finished with the application, press 'Quit' to quit.