

QUINZICAL

User Manual



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1 Introduction to Quinzical

Quinzical is multimedia tool aimed to help New Zealanders, or anyone in general, wanting to learn more about the New Zealand and the world. To facilitate this, the game is designed as a quiz app, similar to that of Jeopardy, with two modes: Games Mode and Practise Mode. Games Mode presents randomly selected questions for the user to answer from a database of categories, with a scoring system implemented to act as an indicator of success or a form of motivation for the user. The Practise mode is similar to the Games Mode, however any category can be selected, enabling the player to sharpen their knowledge on specific areas of New Zealand general knowledge if they wish.

Quinzical also has a leaderboards page to allow multiple users on the same device to compare their scores, as well as rewards in the form of medals to motivate the player to improve on their last attempt.

Quinzical is designed to only run on Linux, assuming specific paths of JavaFX lib (usr/share/java/lib)

Macron support has been added to the game, if the user wishes to add macrons to their answer, they may do this, however omission of Macrons will not affect whether an answer is marked correct or not.

Upon opening the game, the user has 4 buttons to select, Game Mode, Practise Mode, Settings and Leaderboards, the functions of these modules are outlined in this manual.

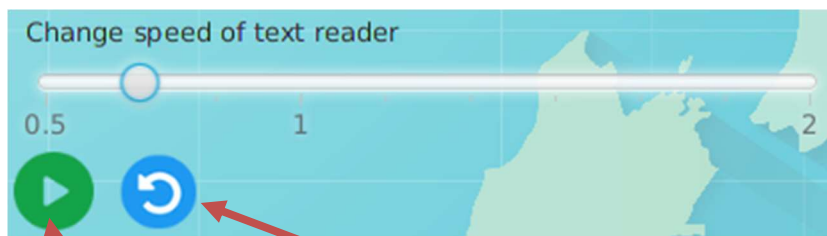


2 Settings

Speech Speed

In order to access settings, click the Settings button.

Once the button is clicked you should be presented to the possible settings in Quinzical. The first of which is the ability to change the speed of the speech of the voice when a question is presented.



Test the speed of the slider with a default message "Welcome to Quinzical."

Reset speed.

The default speed the slider is set at is 1. The minimum speed of speech is 0.5, which is half the speed of the default speed and the maximum speed of speech is 2, which is double the speed of the default speed. The user can move the slider to any value, between 0.5 and 2, as they wish.

The ability to play a sample line is given by pressing the test speed button, allowing the user to test whether the speed is at a desirable pace.

The option to reset is also given, if the user wishes to return to the default speed of 1.

Voice Type

The second option in settings is the ability to change the voice of the speech reader. If the user follows the instructions under the readme then two voices should be available to choose, the default voice and NZ Voice.

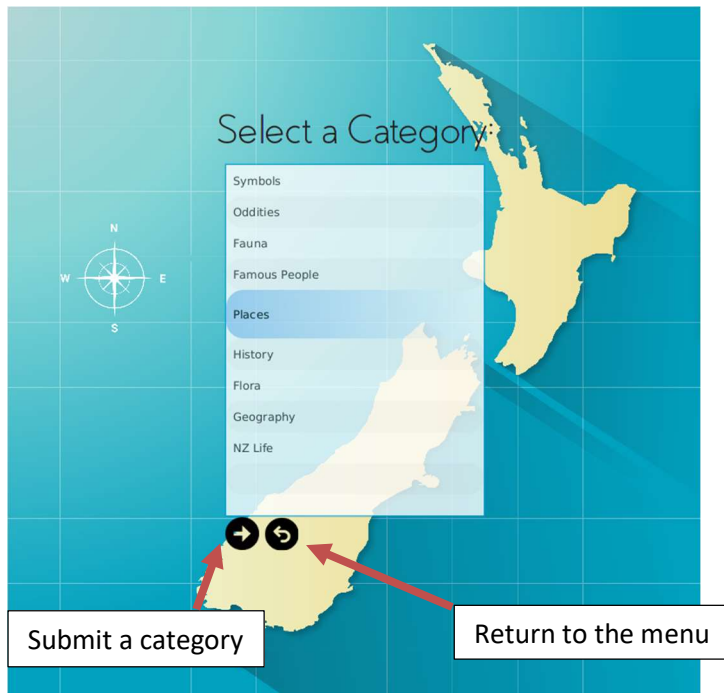


In order to change the voice, click the drop down box and select what voice you would like, then press the confirm button (Not clicking the confirm button will result in the voice being unchanged.)

Additional voices, and information on how to install them are available on pg 9 of the manual, or the readme file that is attached when installing Quinzical.

3 Practise Mode

The Practise mode can be accessed by clicking the “Practise Mode” button on the Main Menu screen.



From here the user can select a category to answer questions above by clicking a category from the list and pressing the submit button. The user is then presented with a random question from that category.

The user must select a category to proceed, not selecting a category from the list and pressing submit will not do anything, and only one category can be selected from the list at a time.

The user can return to the Main Menu if they wish by clicking the curved arrow button, as indicated above.

After selecting a category, the user is presented with a random question from that category.



In order to answer the question the user must type their answer in the answer space and click the arrow button to submit. The user is also able to replay the speech of the text if they wish.

Submit the answer in the answer space.

Replay speech of the question.

Macrons are added if the user wishes to add them.

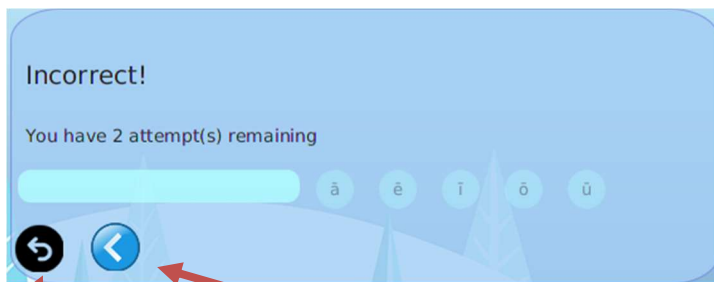
The game proceeds to inform the user if they are correct, as well as giving them the option to return to the Practise Mode category selection, or the Main Menu.



Return to the menu

Return to the Practise Category View.

If the user answer was incorrect, they are presented with the option to return to the Main Menu or try the question again.



Return to the menu

Try answering the question again.

The user has 3 attempts, on the 3rd attempt the first letter of the answer is given as a hint, and is typed in the text box.(shown below.)

If the user is incorrect on the 3rd attempt, they are told so, as well as presented with the original question and answer.

4.Game Mode

Question Selection

Upon entering the game the user is given 5 random categories with 5 questions each, a category of International Questions is also present and can be unlocked by completing two categories. For each of the categories, the user is only able to select the lowest value question, once answered the question can no longer be selected and the user can answer the next lowest valued question, with respect to that category.

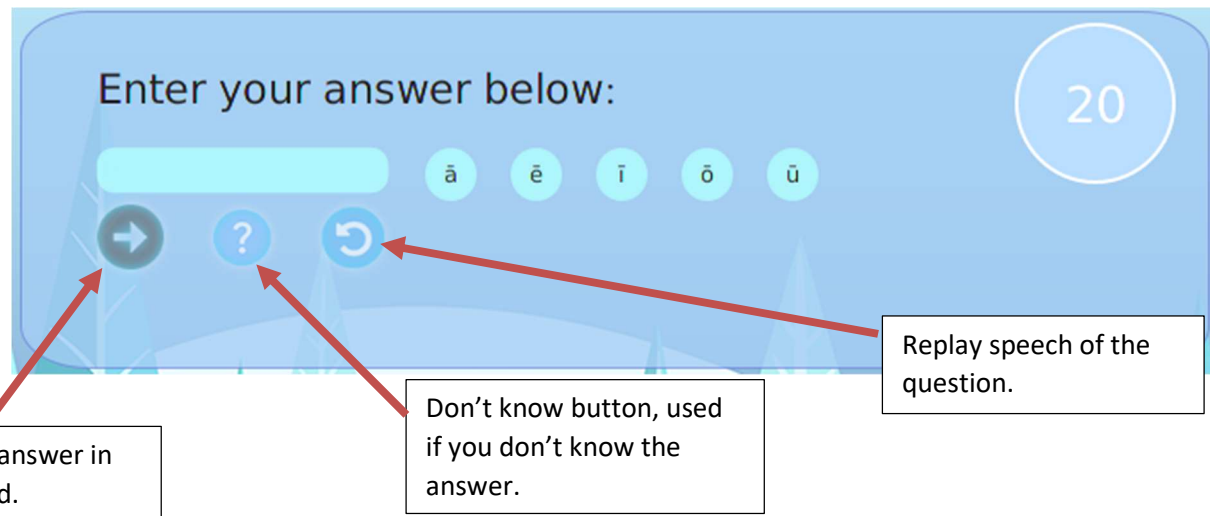


Once a question has been answered it turns green, unanswered questions are disabled and are darker than the available question for that category.

The final section is the orange international section which contains random questions that can be on anything in the world and not restricted to New Zealand.

This category will only unlock once the user has finished two of the New Zealand categories and will need to also be completed for the user to finish to really test them if they want to score well.

Answering A Question



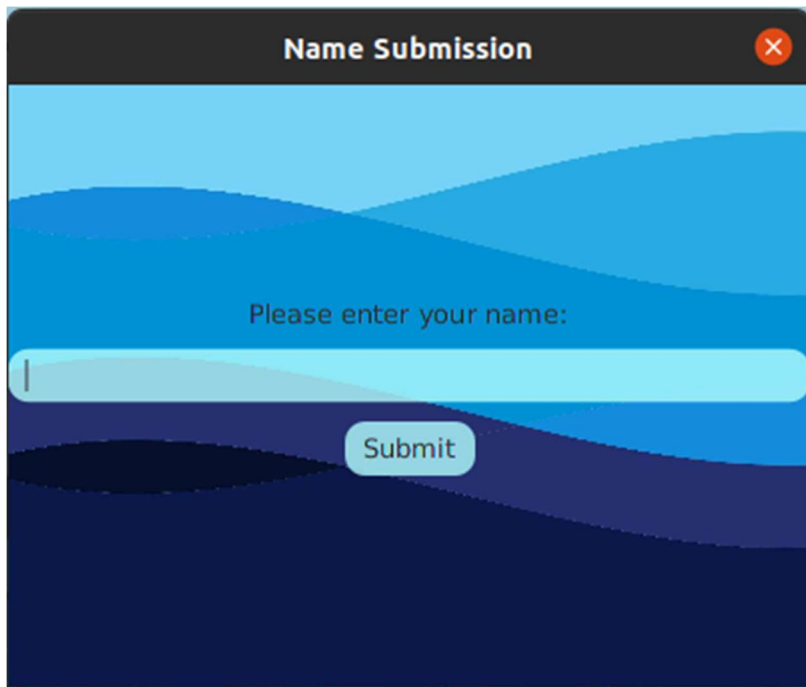
Once a question is selected, the question is read to the user and once the presenter has finished speaking the timer of 20 seconds in the top right begins. When the timer is finished whatever answer the user has typed as their answer is submitted.

The user has the option to replay the clue, submit the answer or press the 'Don't Know' button (the question mark) which will proceed to the answer scene like the submit button and tell the user the answer.

The user is also able to select the Macron buttons to add a macron letter to their answer if it is required.



Similarly, to practise mode, the user is informed whether they are correct or incorrect and has the options to return to the Main Menu or answer more questions.



Upon finishing the game the user is asked to enter a name, which will be used on the leader board, they are then shown a screen of the reward that they have earned for completing Games Mode.

5. Leaderboard and Rewards



Upon finishing a game, the user can see their result in the leaderboards page and compare their performance to other users on the same device.

A section for all the user's unlocked rewards is shown on the right.

6. Troubleshooting

The game is designed to run on linux, and assumes the user has JavaFX installed in the location (usr/share/java/lib). If there are any problems with starting the game please make sure that JavaFX is installed in the given location.

The game assumes the user has installed festival as well as the 'festlex-oald' package. And that the voices 'akl_nz_jdt_diphone' and 'kal_diphone' are installed in (usr/share/festival/voices). If the speech cannot be heard when playing, please make sure these voices are installed in that directory.

If the user wishes to add more questions, this can be done in quinzical.txt and Quinzical-International.txt following the format of the other questions. Please do not delete/move/modify any other files/directories.

If the user has deleted moved or modified files in .userData, deleting the directory .userData and running the application will resolve the issue as a hard reset. If any other file/directory is missing/modified and the game does not work, please re-install Quinzical.

If speech is working on any of the voices, please make sure the audio drivers have not crashed. This can be done by opening the terminal (any location) and typing in `echo "hello" | festival -tts`
If the terminal does not play back 'hello' please restart your Virtual Box or computer (If you're not running it on the Virtual Box but have a Linux OS.)

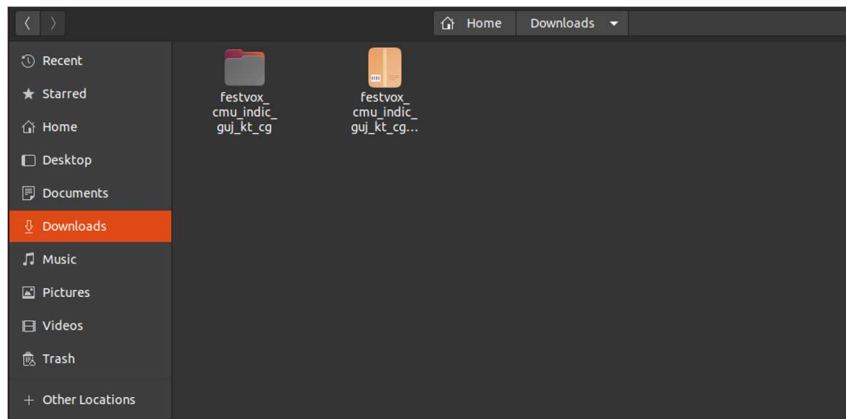
7. Additional Voices

If the user has installed festival in the location: //usr/share/festival, then additional festival voices can be installed.

An example of a website that contains additional voices is:

<http://festvox.org/packed/festival/2.5/voices/>

- In order to install a voice select one of the voices and save the tar.gz file to a location of your choice.
- Extract the file, this should create a folder for the festival voice, as shown below.



Now right click and select “Open in Terminal”. (The path in the terminal should be the same path where you stored the festival voice.)

Now type in the following command:

```
sudo cp -r festvox_cmu_indic_guj_kt_cg /usr/share/festival/voices/english
```

Note:(festvox_cmu_indic_guj_kt_cg is used to move the folder shown in the figure above, if you have a different festival voice folder replace festvox_cmu_indic_guj_kt_cg with that folder name.)

The folder should now appear in /usr/share/festival/voices/English and when you start the game again it should appear under the list of voices, available to be selected.