



VARpedia

by Martin & Will

User Manual

By Group 25

VARpedia by Martin and Will - User Manual

By Group 25

Table of Contents

Table of Contents	2
Table of Figures.....	3
First Time Launch	4
Home Screen	6
Creating a Creation	7
Add Audio Screen	7
Background Music Selection Screen	9
Image Selection Screen.....	10
Help Screens.....	12
Learning Component - Quiz.....	13
Settings	15
Attributions.....	17
Music Track Acknowledgement	17
Source Code Acknowledgement.....	17
Image Acknowledgement	18

Table of Figures

Figure 1: 'Welcome Screen' of VARpedia	4
Figure 2: The 'Home Screen'	6
Figure 3: Playing a Creation	6
Figure 4: The 'Add Audio Screen'	7
Figure 5: Searching for the term 'apple' and customizing the voice for the audio.....	7
Figure 6: The list of saved audios.....	8
Figure 7: The 'Background Music Selection Screen'	9
Figure 8: Selecting a background music track	9
Figure 9: The 'Image Selection Screen'.....	10
Figure 10: Selecting images for the Creation.....	10
Figure 11: The Creation is being generated in the background.....	11
Figure 12: The 'Help' Button on the Home Screen.....	12
Figure 13: The 'Quiz'	13
Figure 14: Guessing the Creation term	14
Figure 15: Guessing the Creation term on Hard mode.....	14
Figure 16: The 'Quiz Score Screen'	14
Figure 17: The 'Settings Screen'.....	15
Figure 18: 'Bootstrap' theme showcase	16
Figure 19: 'Sky' theme showcase	16
Figure 20: 'Red Devil' theme showcase.....	16

First Time Launch



Figure 1: 'Welcome Screen' of VARpedia

Thank you for choosing VARpedia as your choice of learning application! The VARpedia uses 'Creations', a mixture of visual, aural and read/write elements in a form of a video to help you learn.

Before launching VARpedia, please make sure you are using Linux operating systems because our application requires it.

VARpedia also needs plugins such as "espeak", "ffmpeg" and "wiki".

Please visit this link to learn more about espeak – <http://espeak.sourceforge.net/>

Or you can type in these commands in the Linux terminal.

```
apt-get install espeak
```

Please visit this link to learn more about ffmpeg –
<https://www.ffmpeg.org/download.html>

Or you can type in these commands in the Linux terminal.

```
sudo add-apt-repository ppa:mc3man/trusty-media  
sudo apt-get update  
sudo apt-get install ffmpeg  
sudo apt-get install frei0r-plugins
```

Also, visit this link to learn more about wikit –
<https://www.npmjs.com/package/wikit>

“wikit” requires “npm” and “nodejs” for installation. You can type this into the terminal to install these.

```
sudo apt install nodejs  
sudo npm install wikit -g
```

Upon first launch, VARpedia will create a folder “Creation_Directory” in your current directory. This is where the ‘Creations’ will be stored. Click **‘Get Started!’** to begin.

Home Screen

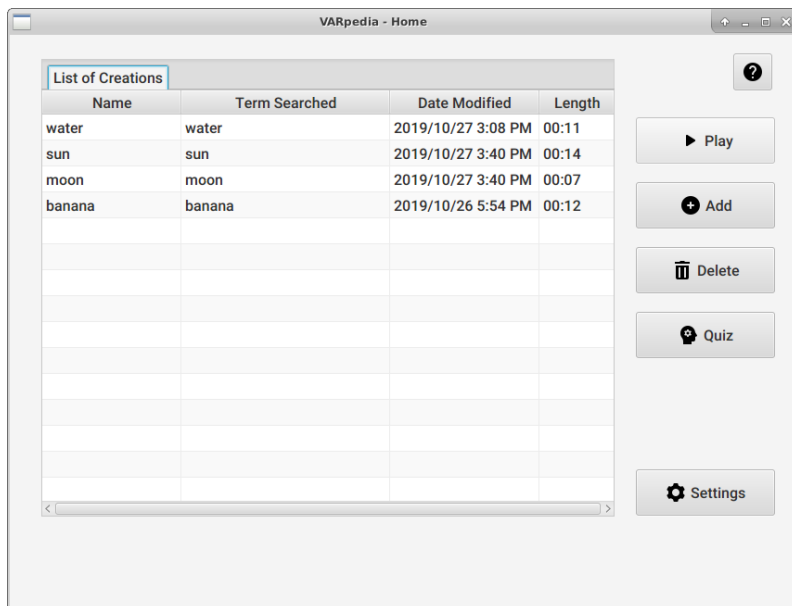


Figure 2: The 'Home Screen'

Clicking the '**Get Started**' button takes you to VARpedia's 'Home Screen' (shown in Figure 2). The Home Screen contains all previously made Creations with their 'Name', 'Term Searched' on Wikipedia, 'Date Modified' and 'Length' properties.

On the first launch, the list will be empty. The first step is to make a Creation.

When you select a Creation, you can click the '**Play**' button to play the Creation video and learn about it (shown in figure 3). You can play multiple Creations, with each Creation opening a new tab.

If you are not happy with the Creation, you can click the '**Delete**' button to remove it.

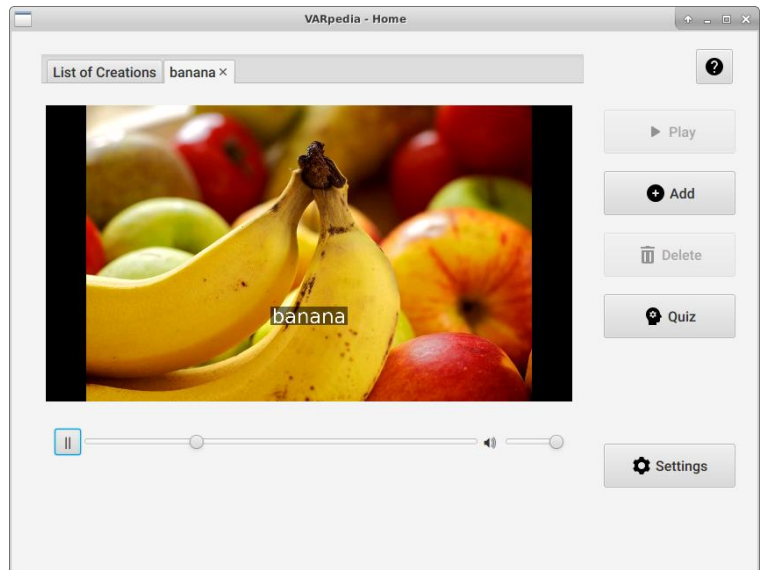


Figure 3: Playing a Creation

Creating a Creation

Add Audio Screen

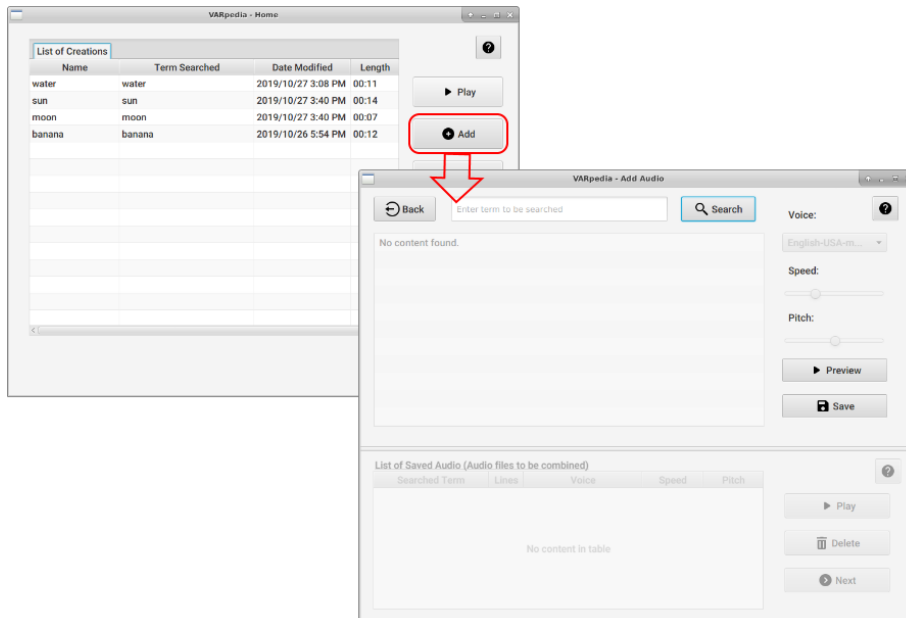


Figure 4: The 'Add Audio Screen'

Clicking the **'Add'** button on the Home Screen will take you to the 'Add Audio Screen'. This is where you search for a word in Wikipedia and customize the voice which makes the audio section of the Creation.

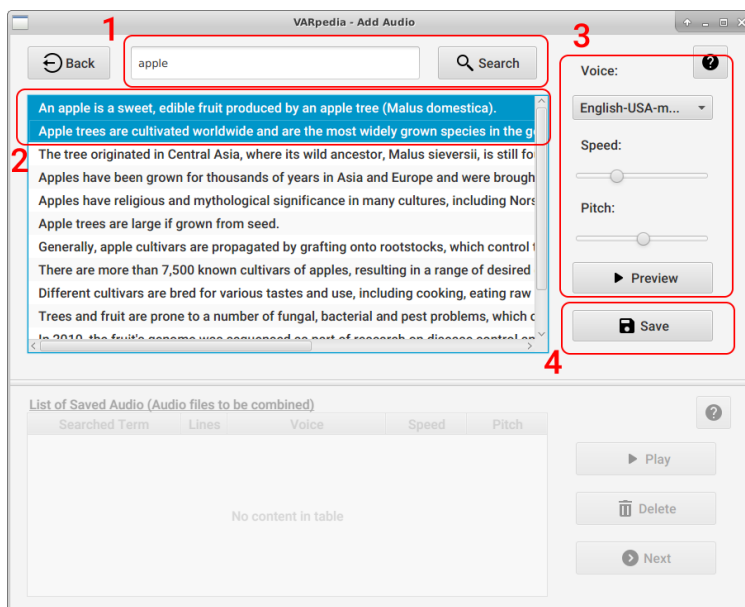


Figure 5: Searching for the term 'apple' and customizing the voice for the audio

1. Search for the term you wish to learn about, and the Wikipedia results are listed in the box, with each line being a sentence.

2. You can select one or multiple lines by using the 'Control' key and clicking on multiple lines or pressing the 'Shift' key and clicking two lines (where the lines highlighted are the lines between the two) and edit them as you wish. Make sure the lines are selected for the next steps.

3. You can change the voice, the speed or the pitch and preview them.

4. Once done, you can save the audio. Steps 2-4 can be done many times.

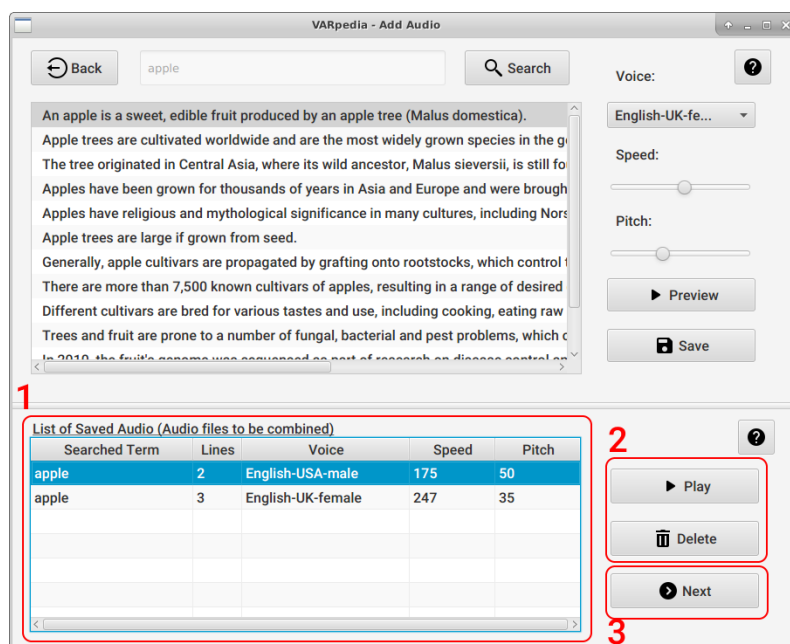


Figure 6: The list of saved audios

1. Once the audio is saved, it will appear in the table along with the properties of the voice and the number of lines. You can drag and drop the audio to reorder them, and this is the order they will appear in the Creation.

2. You can 'Play' or 'Delete' these audio files.

3. Once you're done, you can click next.

Clicking 'Back' takes you to the Home Screen.

Background Music Selection Screen

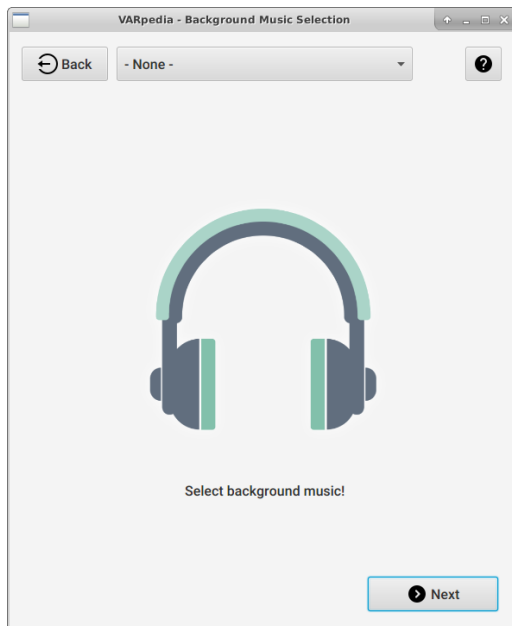


Figure 7: The 'Background Music Selection Screen'

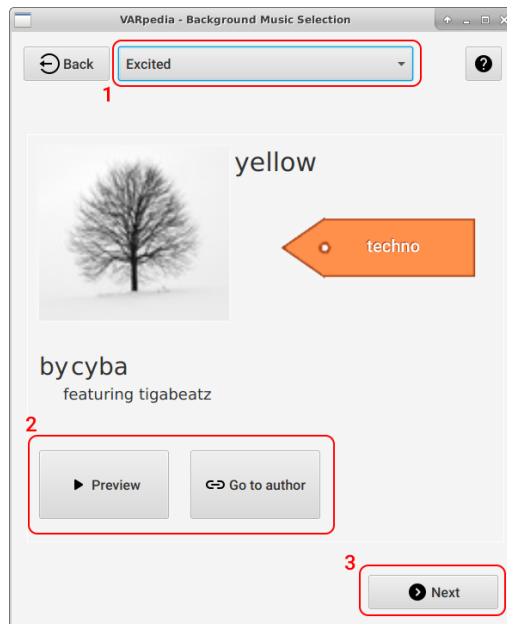


Figure 8: Selecting a background music track

1. In the Background Music Selection Screen, you can select optional background music to add to your Creation.

2. The name and authors of the music track are displayed in Figure 8. You can play the music track by clicking on the '**Preview**' button or visit the website of the track by clicking on the '**Go to author**' button.

The tags give an idea of the genre of the track.

The '**Back**' button takes you to the Add Audio Screen, with all your previously saved audio files.

3. Once you're happy and ready to proceed, click on the '**Next**' button.

Image Selection Screen

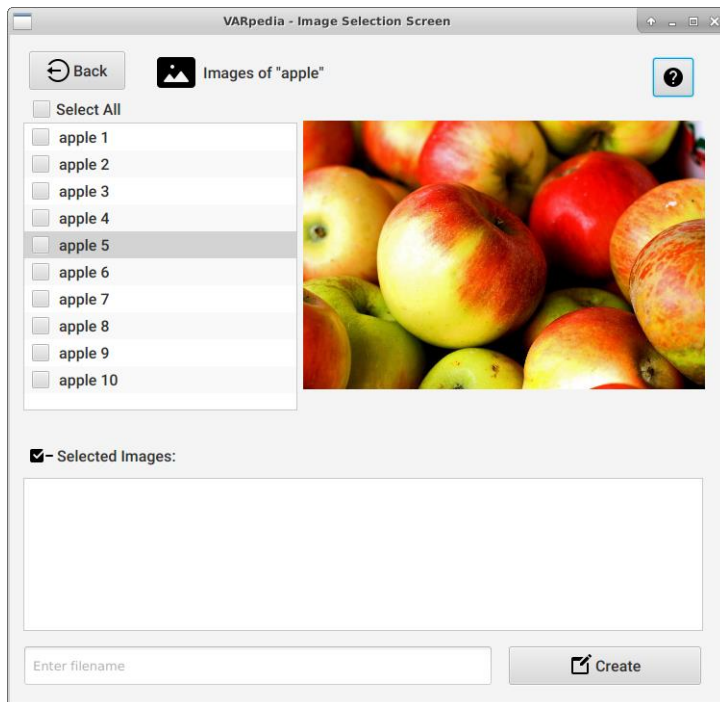


Figure 9: The 'Image Selection Screen'

In the Image Selection Screen, you can select up to 10 images to use for the visual section of the Creation by selecting the images you want to include. Alternatively, you can click on the '**Select All**' checkbox to include all images.

The '**Back**' button takes you back to the Background Music Selection Screen, if you wish to change the audio section of the Creation.

1. The order of the images that will show in the Creation can be viewed in the '**Selected Images**' slideshow. You can rearrange by deselecting the images you do not want to be shown first.

2. Once you are happy with the selected images, you can enter a filename for the Creation, then click on the '**Create**' button to finish!

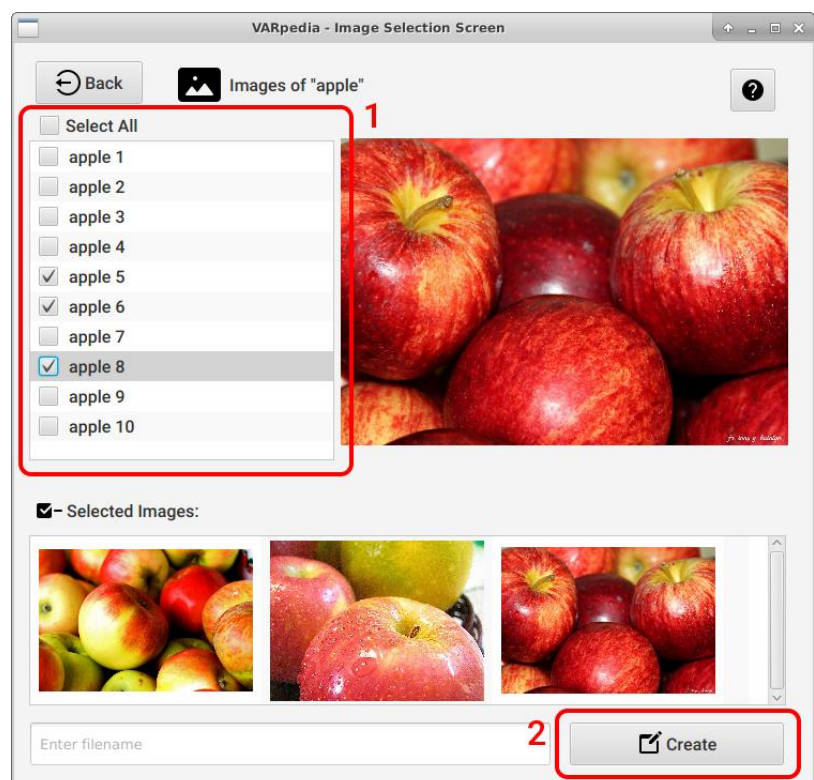


Figure 10: Selecting images for the Creation

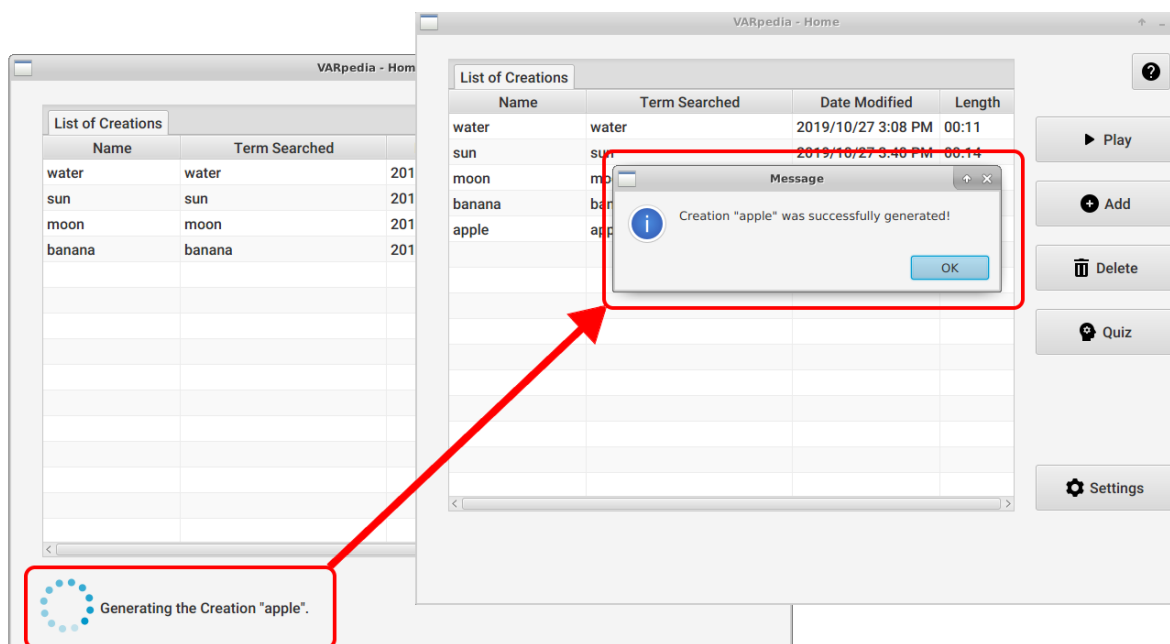


Figure 11: The Creation is being generated in the background

After clicking the '**Create**' button, VARpedia will take you back to the Home Screen. The generation of the Creation will continue in the background (as shown in Figure 11), allowing you to continue using the application. Once the Creation has been made, a message will be shown.

Help Screens

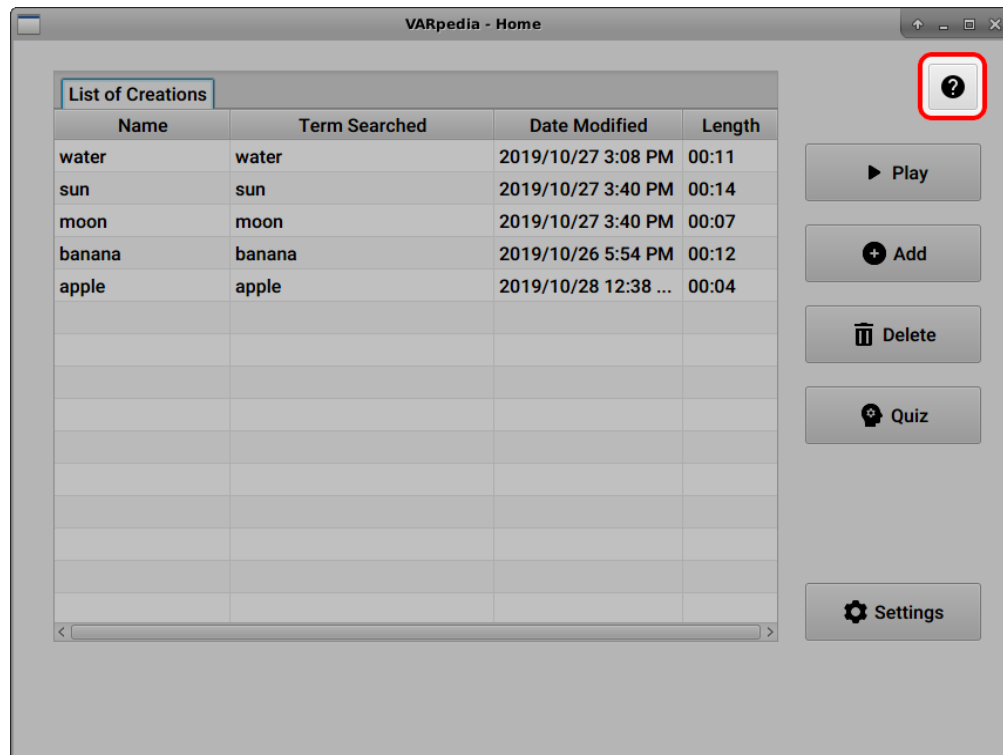


Figure 12: The 'Help' Button on the Home Screen

In the Home Screen, Add Audio Screen, Background Music Selection Screen and Image Selection Screen, there are '**Help**' buttons on the top right, as labelled by the '?' graphic (as shown in Figure 12). These provide additional help when needed.

Learning Component - Quiz

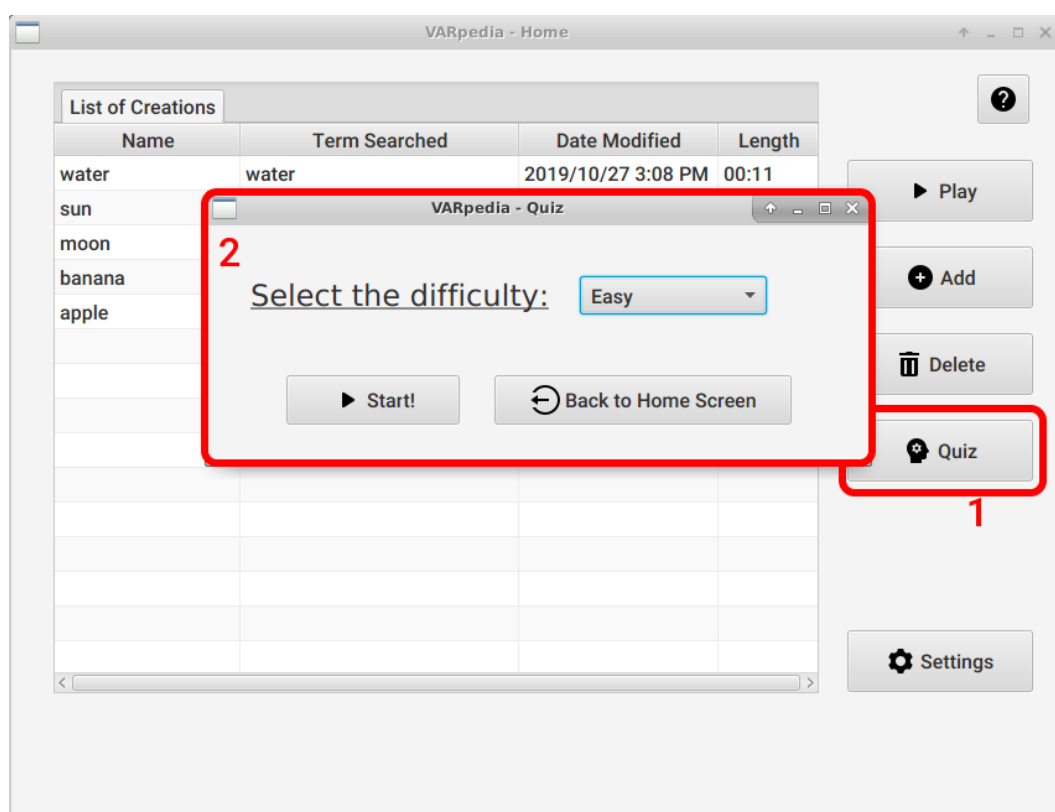


Figure 13: The 'Quiz'

1. If you want to test your knowledge, click on the '**Quiz**' button on the Home Screen. The Quiz is open when you have made at least one Creation.

2. Clicking the Quiz button will take you to the 'Quiz Difficulty Screen', where you can choose the difficulty of the Quiz. The difficulties include '**Easy**', '**Medium**' and '**Hard**'. The limit to the Creations is 12, and they are chosen randomly.

In all modes, you must find the search term.

In Easy mode, you are shown the Creation without the subtitle for the search term, which tests your visual and aural skills.

In Medium mode, you are shown the Creation without the subtitle and the audio, which tests your visual skills.

In Hard Mode, you are shown the text the audio speaks, which tests your read/write skills (refer to Figure 14 on the next page).

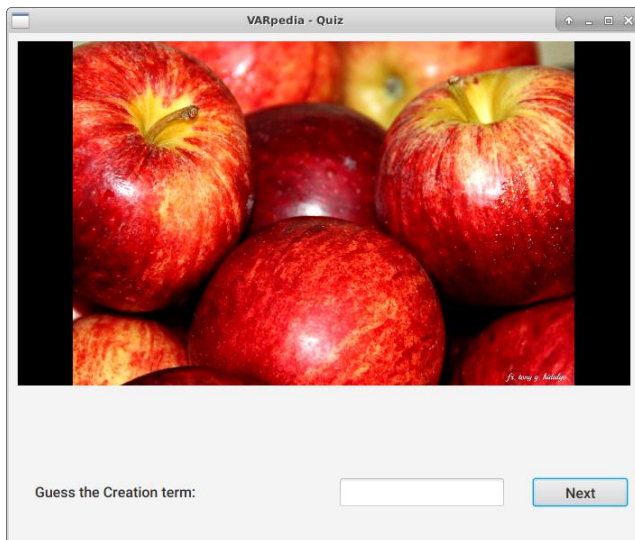


Figure 14: Guessing the Creation term

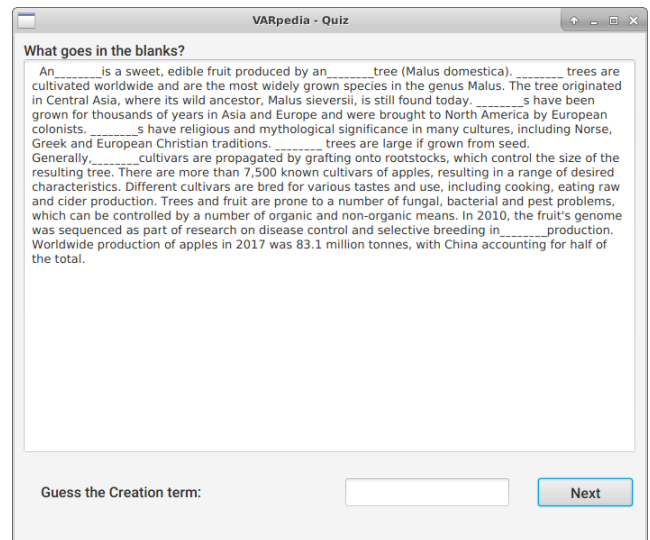


Figure 15: Guessing the Creation term on Hard mode

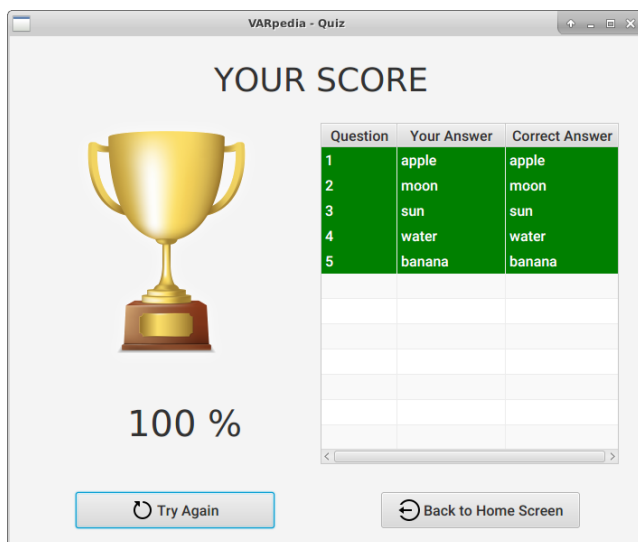


Figure 16: The 'Quiz Score Screen'

The Quiz Score Screen shows your results after the quiz.

The table on the right shows a detailed display of your results. The correct answers are compared to your answers.

Questions answered correctly will be coloured green, while questions answered incorrectly will be red.

You can attempt the Quiz again by clicking the **'Try Again'** button or go back to the Home Screen.

Settings

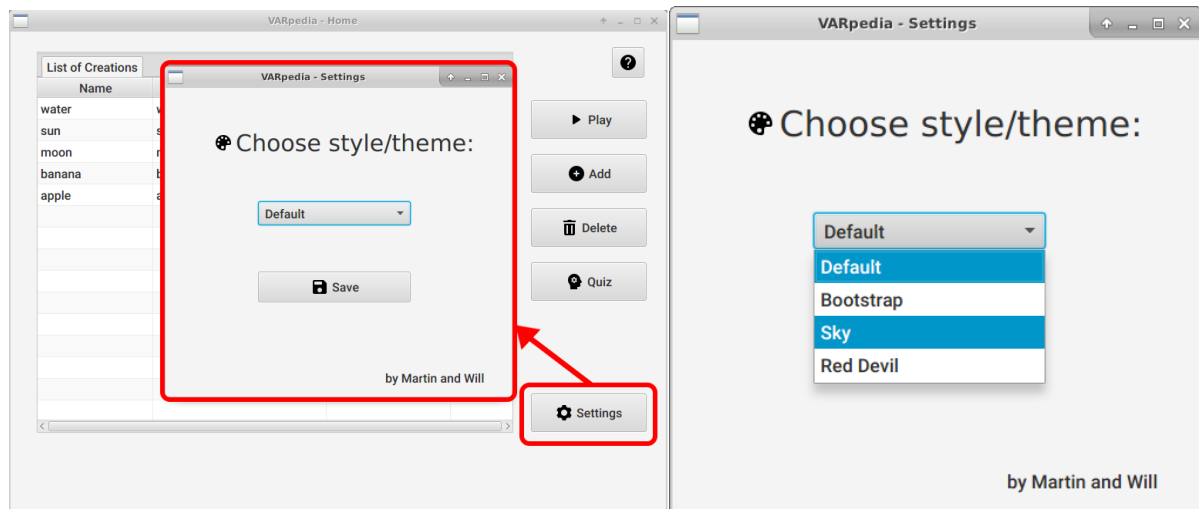


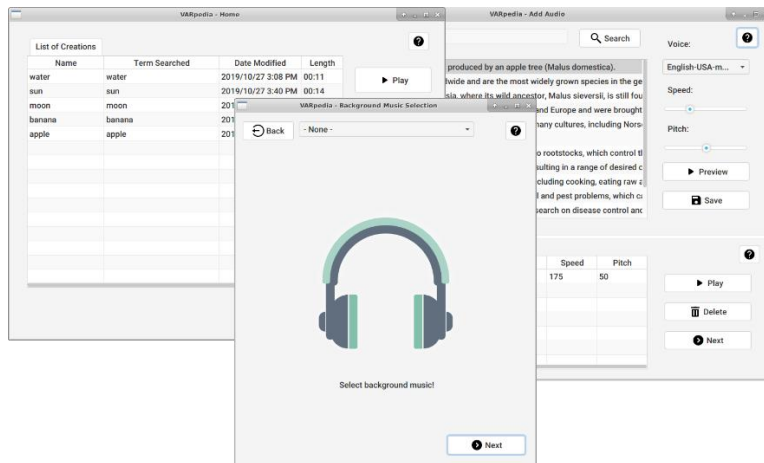
Figure 17: The 'Settings Screen'

The Settings Screen allows you to select the theme that is suitable for you. The following four themes are available:

- Bootstrap
- Sky
- Red Devil
- (Default)

The appearances of these themes are shown in the Figure 18, 19 and 20 on the next page.

Once you are happy with your choice, click on the '**Save**' button. When you close and open up VARpedia, the theme you chose will be saved.



The 'Bootstrap' theme is clean and simple and is suitable for those who want an additional experience to the default Look and Feel.

Figure 18: 'Bootstrap' theme showcase

The 'Sky' theme gives a peaceful experience with the light blue colour scheme.

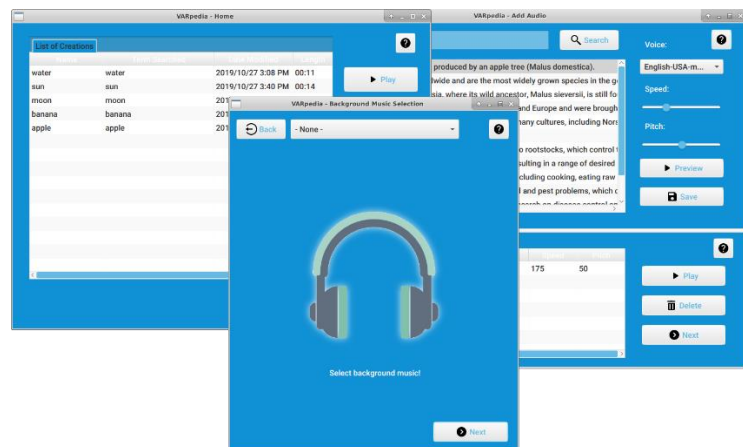
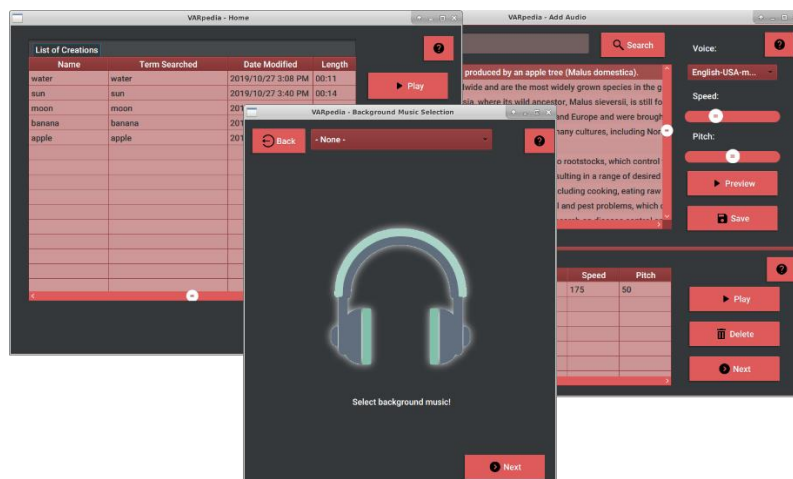


Figure 19: 'Sky' theme showcase



The 'Red Devil' theme gives an experience tailored to those who prefer the 'Dark' modes of other applications. The red accents give a pop of colour to complement the dark.

Figure 20: 'Red Devil' theme showcase

Attributions

Music Track Acknowledgement

The following tracks have been used in this application. They have been edited such that they are background music to text-to-speech voices. We thank their authors for their work.

yellow by cyba (c) copyright 2019 Licensed under a Creative Commons Attribution Noncommercial(3.0) license. <http://dig.ccmixer.org/files/cyba/60166>

Triptych of Snippets by septahelix (c) copyright 2019 Licensed under a Creative Commons Attribution (3.0) license. <http://dig.ccmixer.org/files/septahelix/60171>

commonGround by airtone (c) copyright 2018 Licensed under a Creative Commons Attribution Noncommercial (3.0) license. <http://dig.ccmixer.org/files/airtone/58703>

Little reindeer by Stefan Kartenberg (c) copyright 2018 Licensed under a Creative Commons Attribution Noncommercial (3.0) license.

<http://dig.ccmixer.org/files/JeffSpeed68/58885> Ft: Martin Cee (softmartin)

Source Code Acknowledgement

Our project uses adaptations from users' code. We thank their authors for their work.

Flickr API retrieval:

Nasser Giacaman

Flickr API library:

SmugMug, Inc.

CSS Themes:

carldea -

<https://github.com/carldea/jfx9be/tree/master/chap15/LookNFeelChooser/src/jfx9be>

dicolar - <https://github.com/dicolar/jbootx>

Image Acknowledgement

The following images have been used in VARpedia. We thank the authors for their work.

Icons:

Icons8 - <https://icons8.com>

Logo:

Wix Logo Maker - <https://www.wix.com/logo/maker>

Trophy/Medal in the Quiz Score Screen images:

Freepik - <https://www.freepik.com>

Headphones in the Background Music Selection Screen Image:

Freepik - <https://www.freepik.com>