



# VARPEDIA – USER MANUAL

By Group 2 | SOFTENG 206

Jacinta Zhang, Lynette Nguyen, Tushar Thakur

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# Important Information for Parents

Thank you for choosing VARpedia as a means to educate your child. There is some vital information you need to be aware of regarding how we have created VARpedia to meet your child's needs.

## First Time Launch

This application is only compatible with UNIX/Linux operating systems. Do not try to run VARpedia on any other operating system. There are a number of Linux packages that must be installed for VARpedia to function properly. You will require Java, JavaFX, wikit, festival, sox, espeak, and ffmpeg for this application to run.

Please see the following pages on how to correctly install these packages on your Linux:

Java: <http://tipsonubuntu.com/2016/07/31/install-oracle-java-8-9-ubuntu-16-04-linux-mint-18/>

JavaFX: <https://www.oracle.com/technetwork/java/javafx/install-javafx-sdk-1-2-139156.html>

wikit: <https://www.npmjs.com/package/wikit>

festival: <http://wisercoder.com/install-festival-text-speech-ubuntu/>

sox: <https://arielvb.readthedocs.io/en/latest/docs/commandline/sox.html>

espeak: <https://www.vultr.com/docs/install-espeak-on-ubuntu-18-04>

ffmpeg: <https://www.tecmint.com/install-ffmpeg-in-linux/>

VARpedia will create, modify, and delete folders and files in its directory. Please make sure that there is enough space to create audio and video files in your Linux system.

## Safety

Your child's safety is important to us, and we have taken measures to ensure that your child is safe while using our application. We have done this by implementing a safe-search, which disallows certain words or phrases to be searched via VARpedia. Safe-search cannot be turned off, so you can rest assured that your child is always searching age appropriate terms relevant to their learning.

## Next Steps

The remaining pages can be read by both you and your child to get information on how to use VARpedia. We would like to once again thank you for choosing our application, and hope that your child enjoys using VARpedia.

Kind Regards,

The VARpedia Development Team

# Opening VARpedia

Congratulations! You're about to depart on a wonderful adventure full of learning and excitement. All you need to begin is to follow four simple steps, and then you'll be on your way. Remember, if you ever get lost, ask your parents for help! This is how you open up VARpedia.

## Steps

1. Go to the directory where VARpedia.jar is downloaded.
2. Right click in the directory, and click "Open in Terminal".

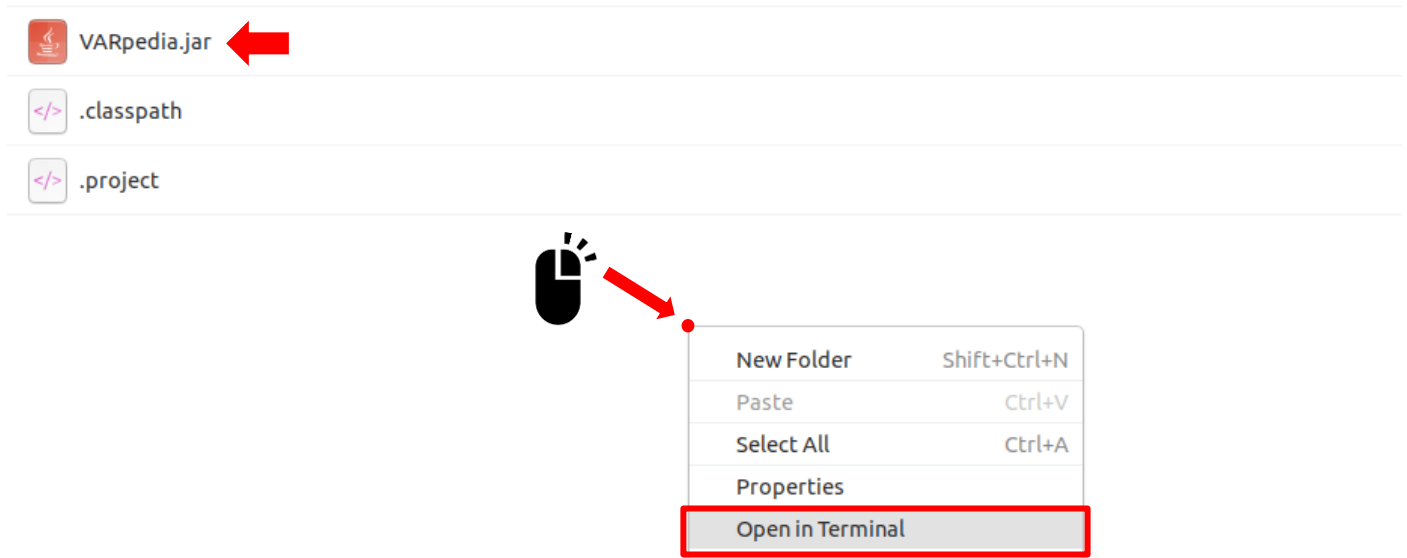


Figure 1: Opening the Terminal In Directory with VARpedia.jar

3. Type the following into the black terminal which pops up:

```
java -jar VARpedia.jar
```

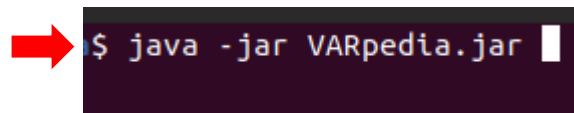


Figure 2: Opening VARpedia from Terminal

4. VARpedia should now be running. Check out how to use it on the next page!



# Navigating VARpedia

## Home

### The Home Screen

On opening VARpedia, you will be greeted with the Home screen below. From here, you can go to View, Create, or Learn! Click on the different boxes in the screen below to go to that section.

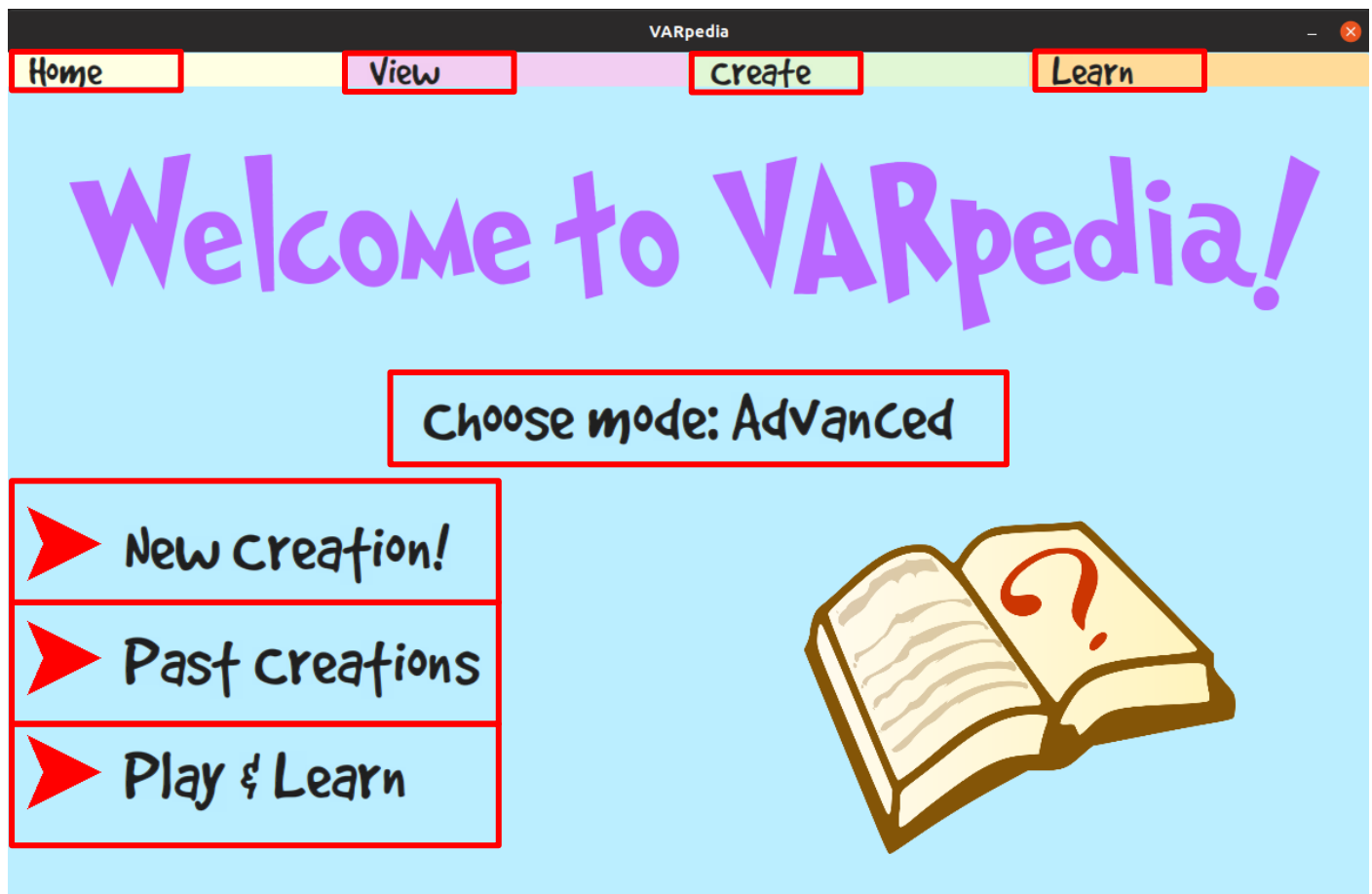


Figure 3: The Home Screen

### Mode Selection

On the Home screen, you can also click "Choose mode" to switch between Basic and Advanced Modes. Basic skips the complicated steps required to make a creation such as editing and highlighting text. Use it if you just want to make a creation as quickly as possible!



Figure 4: Choosing between Basic and Advanced Modes

# View

## The View Screen

This is where you come to view your past creations! If you have made some creations before (see [Create](#)), then those creations will show up here. You have the option to play them again, or delete them from the list by clicking on a creation and pressing "Play" or "Delete".

In Figure 4 below, Apples is selected, and we have the option to either play or delete Apples creation. Click on the boxes below to go to that section.

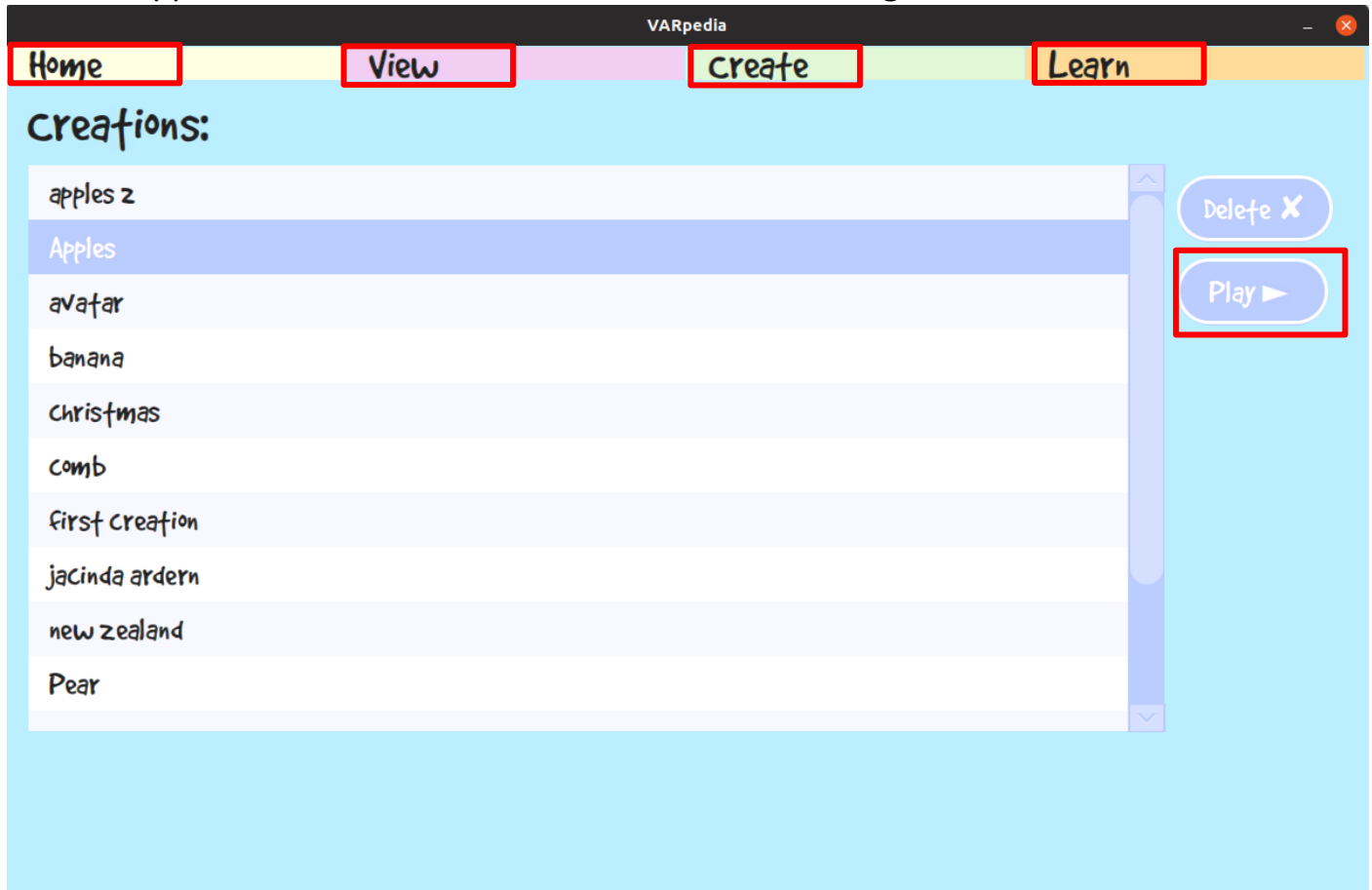


Figure 5: The View Screen

## Playing A Creation

When you click "Play", a new window will pop up, like in Figure 5. You can mute, pause, skip ahead a little, or go back a little while viewing the creation. You can close it early by pressing the "X" icon on the top right of the new window. You can also resize the video like normal. The video, voice, and music of the creation will depend on your inputs while making the creation.

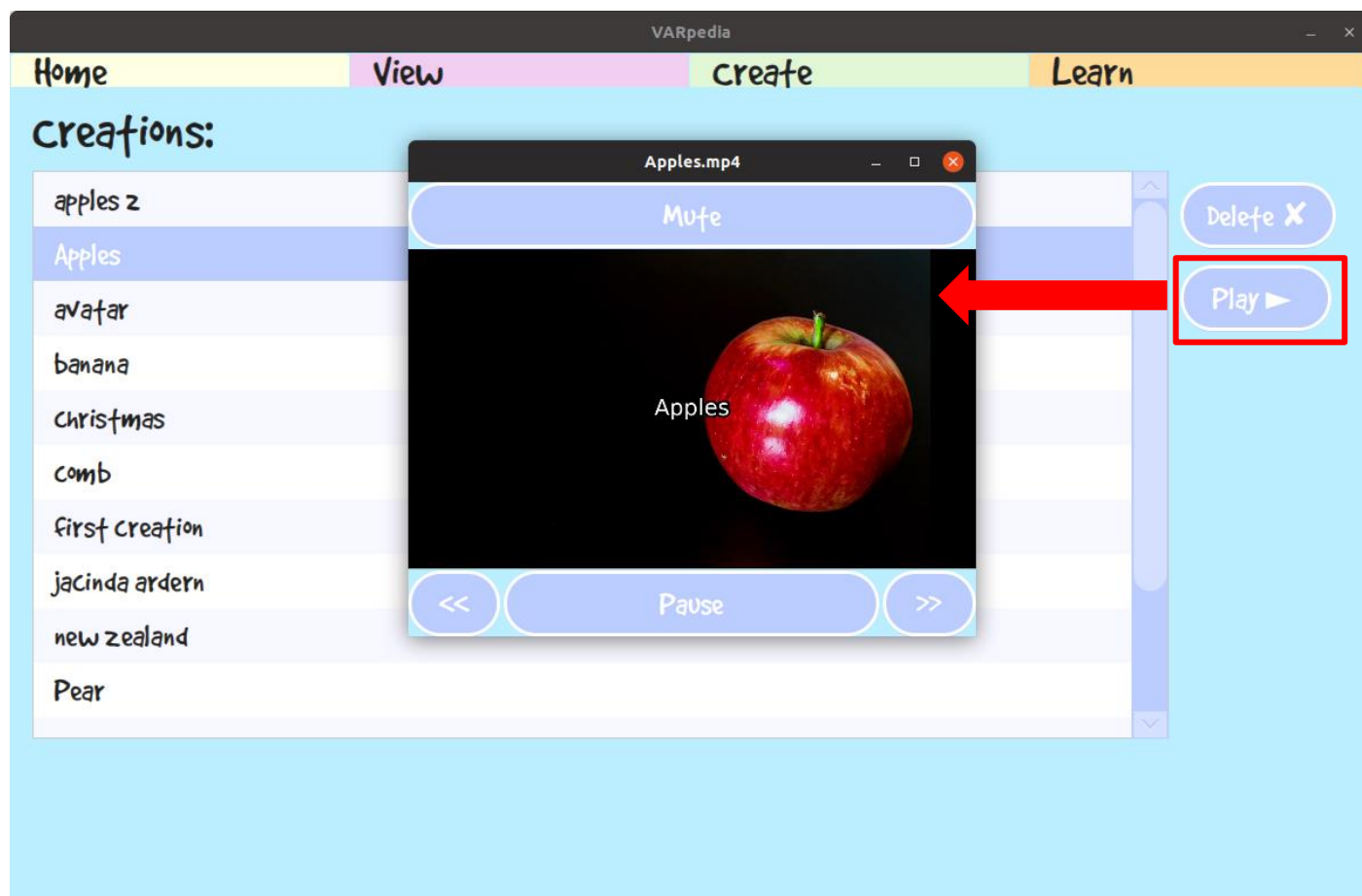


Figure 6: Playing Apples Creation

# Create

## The Create Screen

The Create screen is where you make your creations! Enter whatever you want to know onto the search field present, and press enter or "Submit" to find information about your topic. Click on the red boxes to go to that part in the user manual.

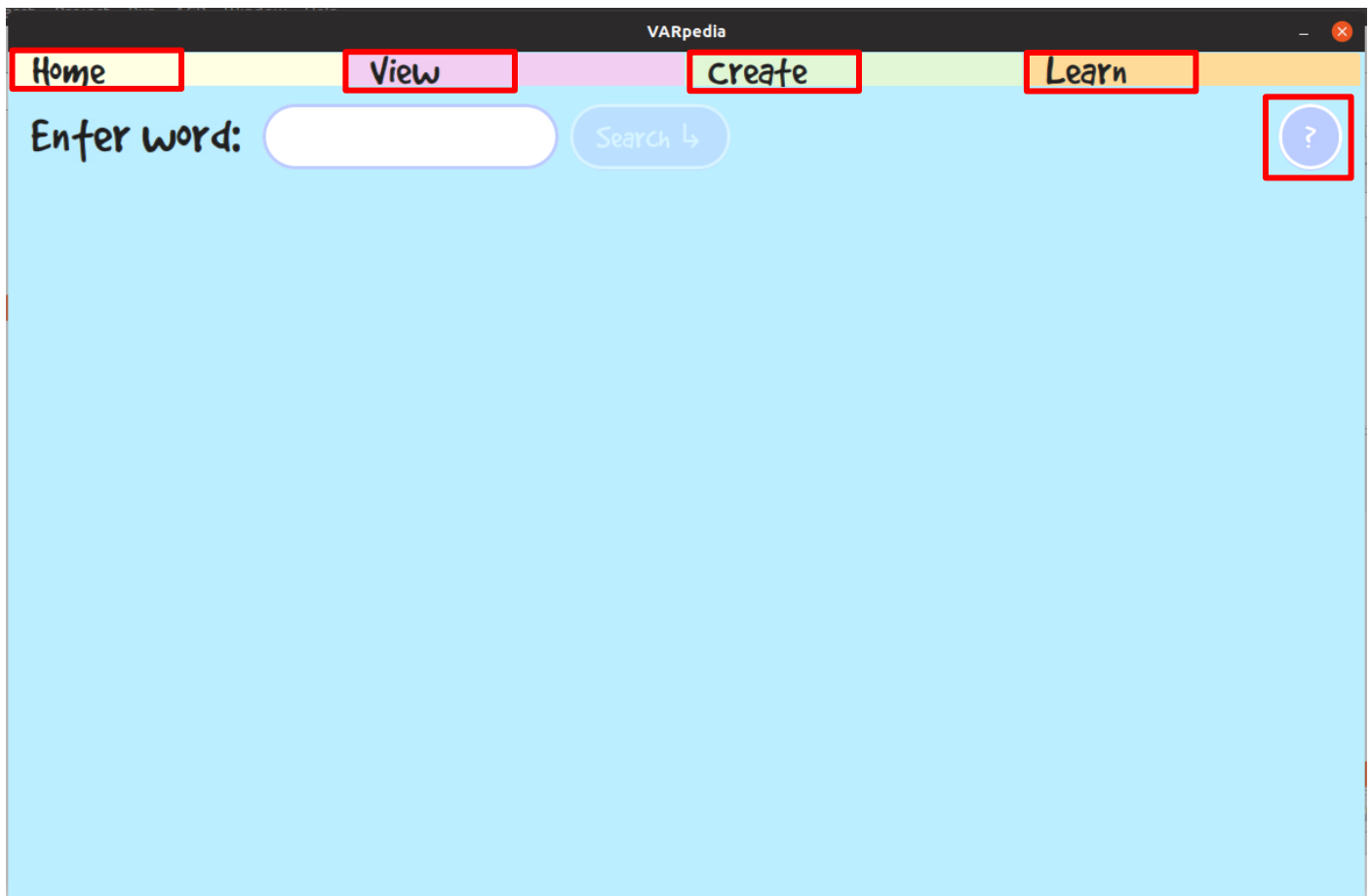


Figure 7: The Create Screen

Note:

If you are in Basic mode, skip ahead to [Choosing The Pictures](#).

If you are in Advanced mode, continue to [Editing Information](#).



## Advanced Mode Only: Editing Information

On this screen, highlight the text you want in the final creation. Change the voice between "Human" and "Robot" and press "Play" to preview what the text will sound like! If you like how it sounds, you can save the text by pressing "Save".

You can select between three different types of music to play in the background of your creation: Classical, Electronic, or Light.

If you ever change your mind on your topic, don't worry! Just type in the new topic you want to search in the search field, and press enter.

On the right, your saved audio files will appear. You can rearrange the order of the audio files using the "Move" buttons below the files, and you can even delete ones if you change your mind! Double click in the list to once again listen to your saved audio files.

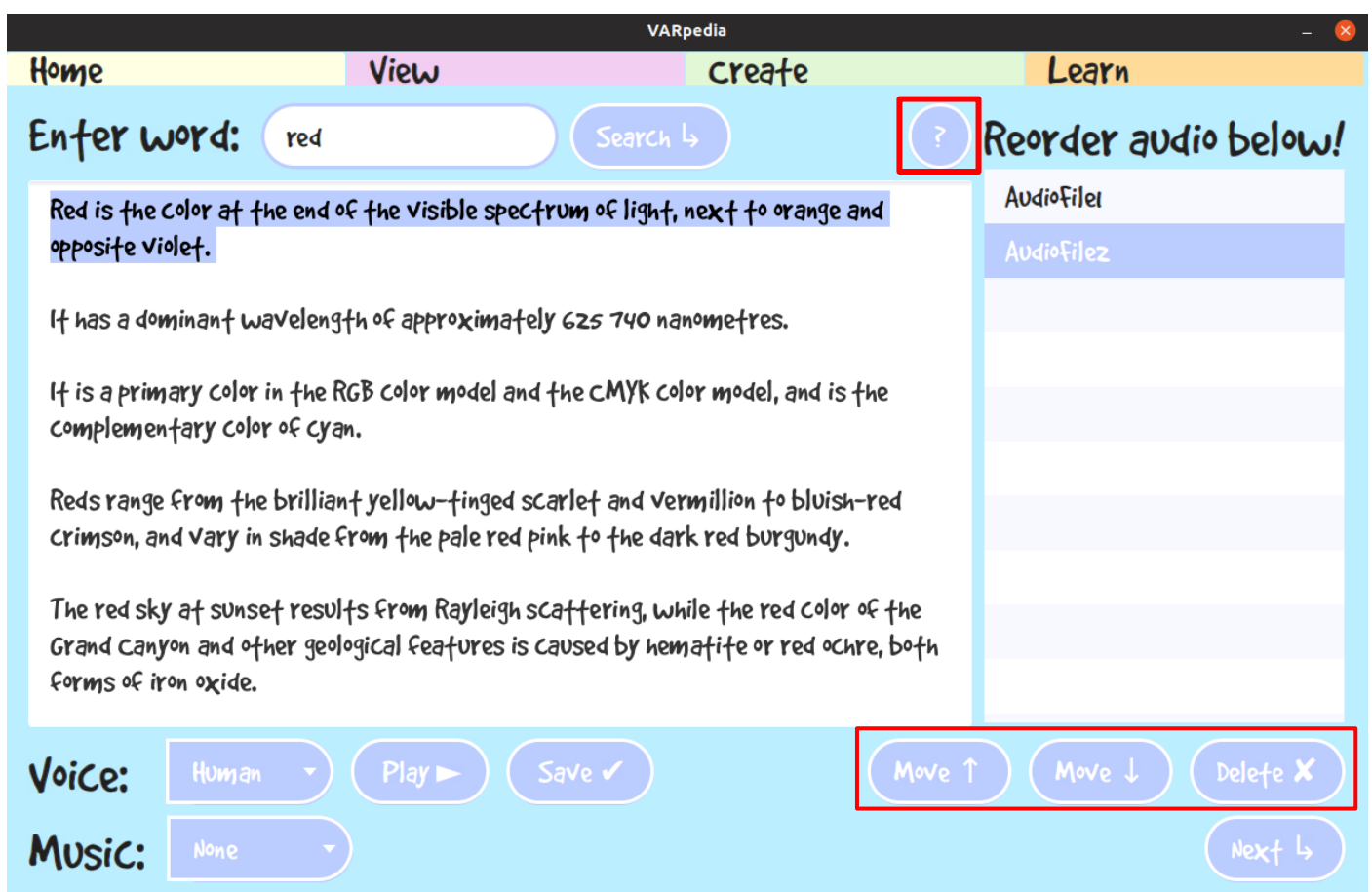


Figure 8: Editing after Search

Once you are happy with the saved audio files and their order, press the "Next" button to move on to [choosing pictures](#) in the final creation step!

## Advanced Mode Only: Help Button

The "?", or Help, button is there for you whenever you are stuck during the creation process. You can also read the user manual at any time by clicking "To User Manual".

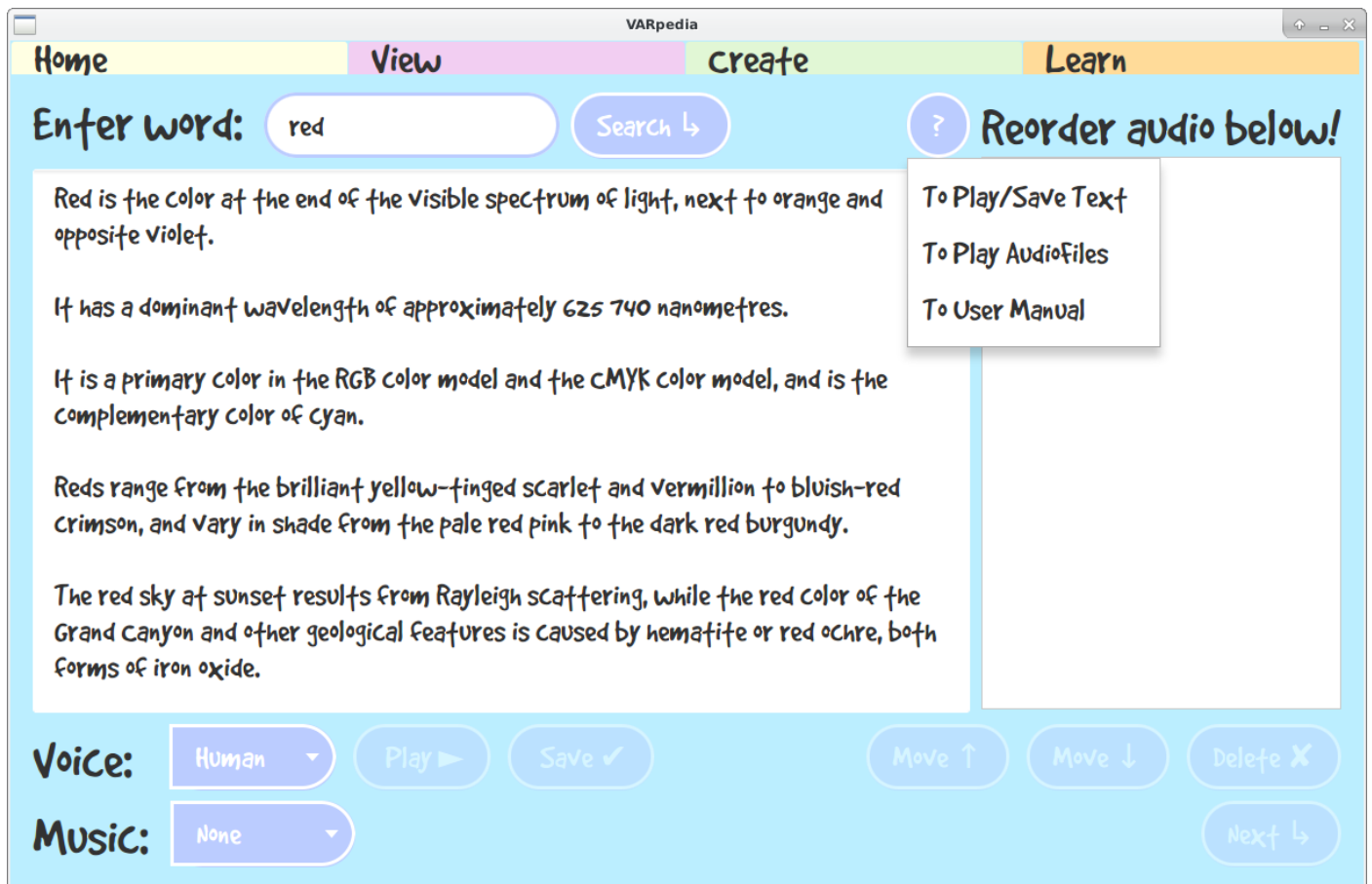
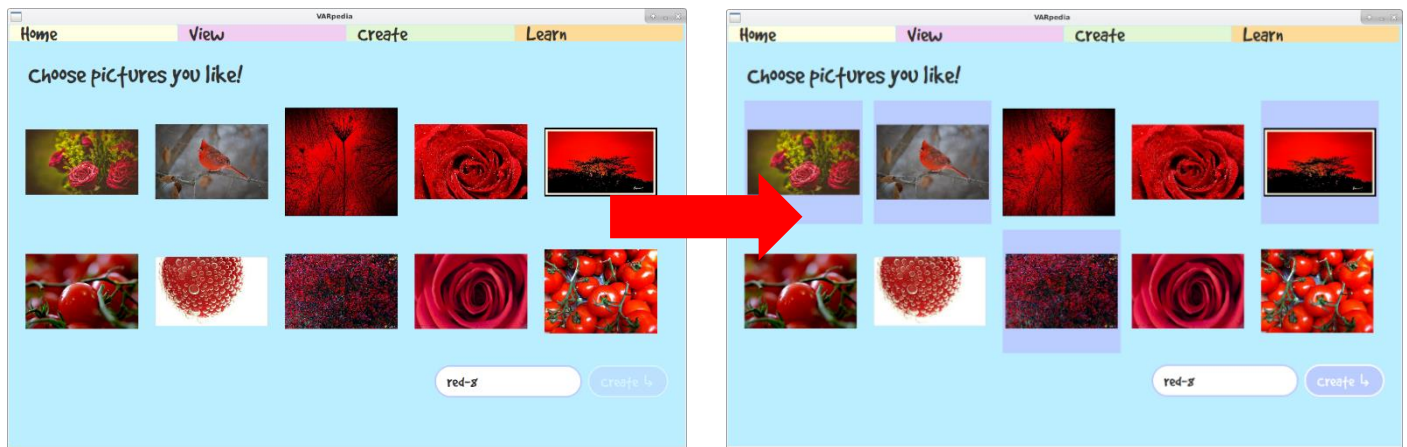


Figure 9: Help Button Options

## Choosing The Pictures

You will be shown up to ten pictures related to your search term. Click on whichever pictures you like so that they appear in the final creation. If you change your mind, simply unclick the pictures. Simple as that!



*Figure 10: How to Select Pictures*

Now it's time to name your creation! Name it whatever you want, or just press "Submit" with our default name. After this, all you have to do is wait! After a while, we will let you know that your creation has been made, and after this, you can view your creation by going to the [View](#) screen. Have fun!

# Learn

## Starting The Quiz

It's time to learn! On this screen, you will be tested on your knowledge of all your creations. Click on the red boxes to go to that part in the user manual.

Press "Start Quiz" to begin.



Figure 11: The Learn Screen

## The Questions

There will be a total of five questions throughout the quiz. On each question, you will be shown the video of one of your creations, along with some possible answers to pick from. Simply choose one option, and press "Check answer".

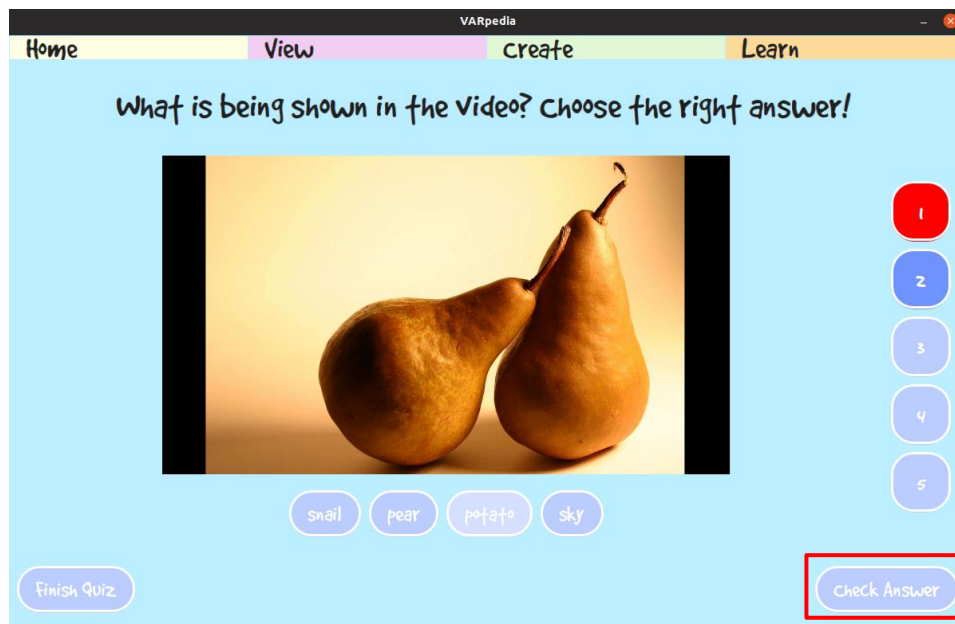


Figure 12: Question Example

Don't worry about remembering the questions or getting the question wrong, because it will tell you the right answer right away! Click "Next" to move on to the next question!

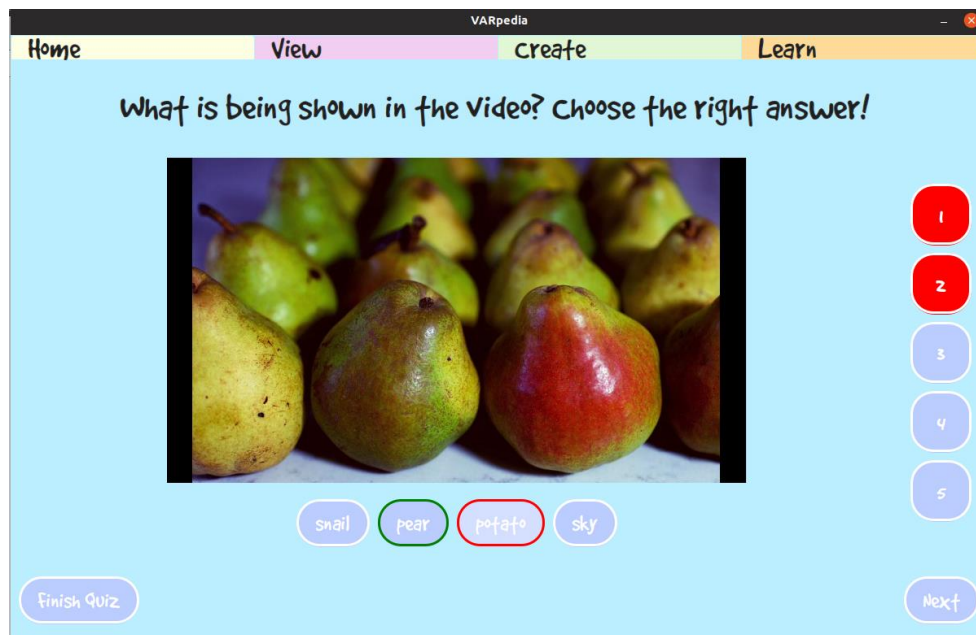


Figure 13: Wrong Answer Example

After the quiz, we will remind you how many questions you got right!