



USER MANUAL

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This is a short guide on how to user VAMIX.

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How to Start

VAMIX is an open source video and audio mixer. It allows you to play and manipulate video and audio files. It can play any valid media file. Any feature that outputs a media file gives a mp3 format for audio and mp4 for video format. This means that regardless of what media format is put into any of the features it will give either a mp3 or mp4 (depending on if an audio or video file is given as input). There are 2 methods to start the program. They are given below.

Method 1:

Click on the jar file provided. It will open the program and everything is ready to use.

Method 2:

1. Make a Java project in eclipse.
2. Go into the source folder of the VAMIX project given and copy all the content.
3. Paste all the content into the source folder of the new eclipse project created.
4. Refresh the project in eclipse
5. Right click on the project name in eclipse workspace and select "Build Path → Configure Build Path."
6. Go on "Libraries tab" and then click on the "Add external jars".
7. Go to the folder called "lib" in the source folder on the VAMIX project given.
8. Click on the "vlc-3.0.1" folder.
9. Add "vlc-3.0.1.jar" and "seaglasslookandfeel-0.2.jar".
10. Then click run in eclipse

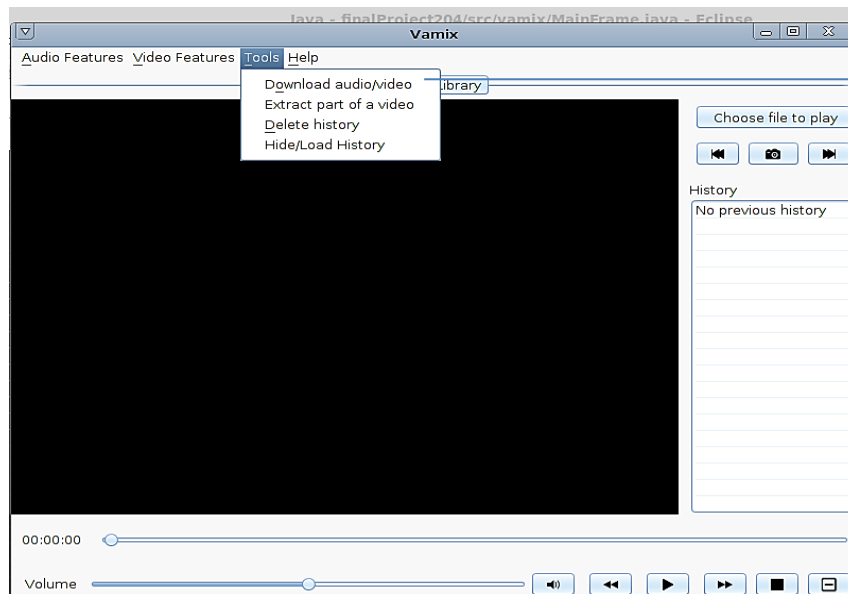
REMEMBER TO ADD BOTH THE JAR FILES FROM STEP 9. THE PROGRAM WILL NOT WORK IF THEY ARE NOT ADDED!

Features provided:

- Download a open source video or audio.
- Extract part of a video
- Show/hide/delete history
- Add text to video
- Make a gif image
- Extract images from a video
- Add Video filters
- Make subtitles for a video
- Add existing subtitles to a video
- Set playback speed
- Extract audio from a video
- Replace/Overlay audio of a video
- Add audio filters
- Replay
- Playback features (play, pause etc.)
- Take screenshot
- Add files to library
- Make a playlist
- Play a file directly from the library
- Play the list showing
- Load a playlist
- Load all media files from a folder
- Cancel playing the list.
- Display information about each file

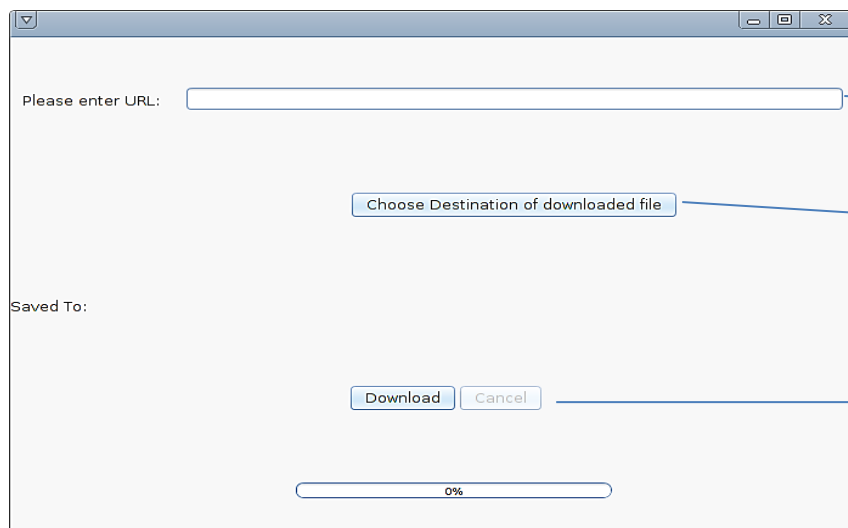
Download

This feature allows the user to download an open source video or audio. It also allows the user to pause/resume the download. If the file already exists then it also allows the user to override the file existing if it is the same as the one being downloaded. Underneath you can see what the feature looks like and how to manipulate it.



Click on this menu item to go to the download option.

Figure 1- Main Frame



Enter the URL to download that file.

Choose a directory where the downloaded file will be saved..

Click to download. When download starts click to cancel download.

Figure 2 - The Download window

The program will ask the user if the file is open source or not. The download will only happen if the file is open source. If the download is cancelled and then started again the program will ask the user if they want to resume the download or override that download. Also, if the file to download already exists in the chosen directory then the user will be asked if they want to replace that file or cancel the download.

Extract Part of Video

This features allows the user to extract part of a video. The details are shown below

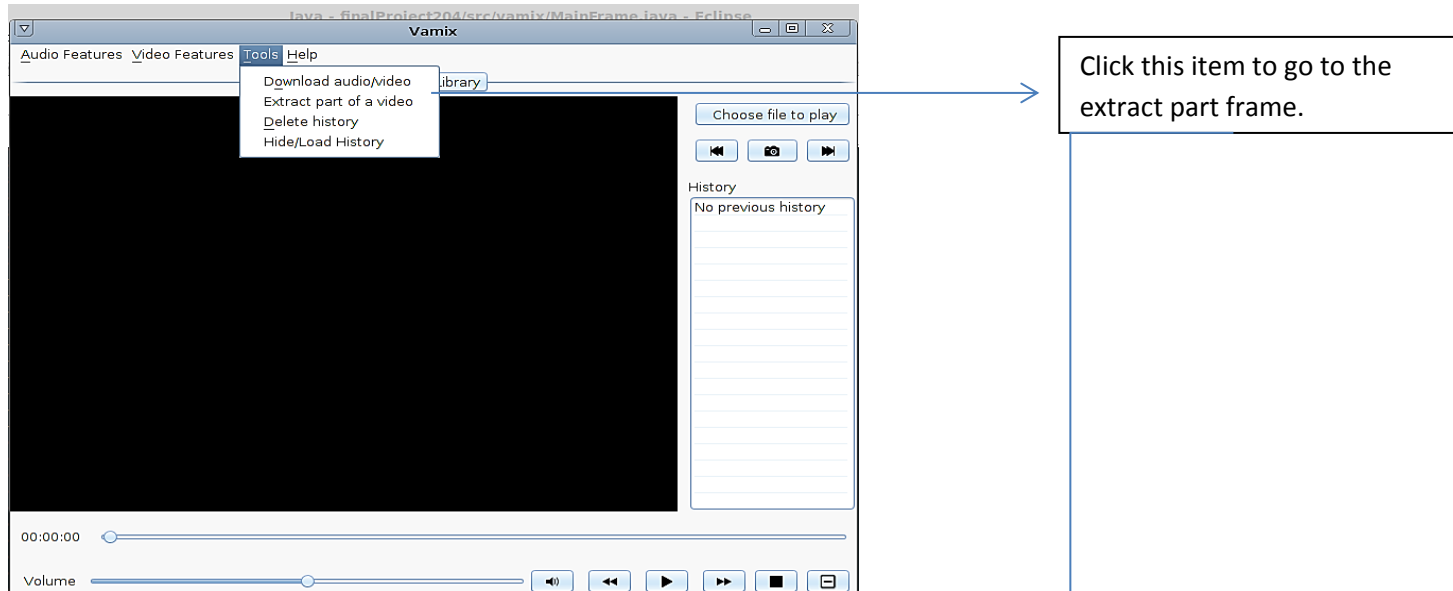


Figure 3 - Choosing the Extract Part feature

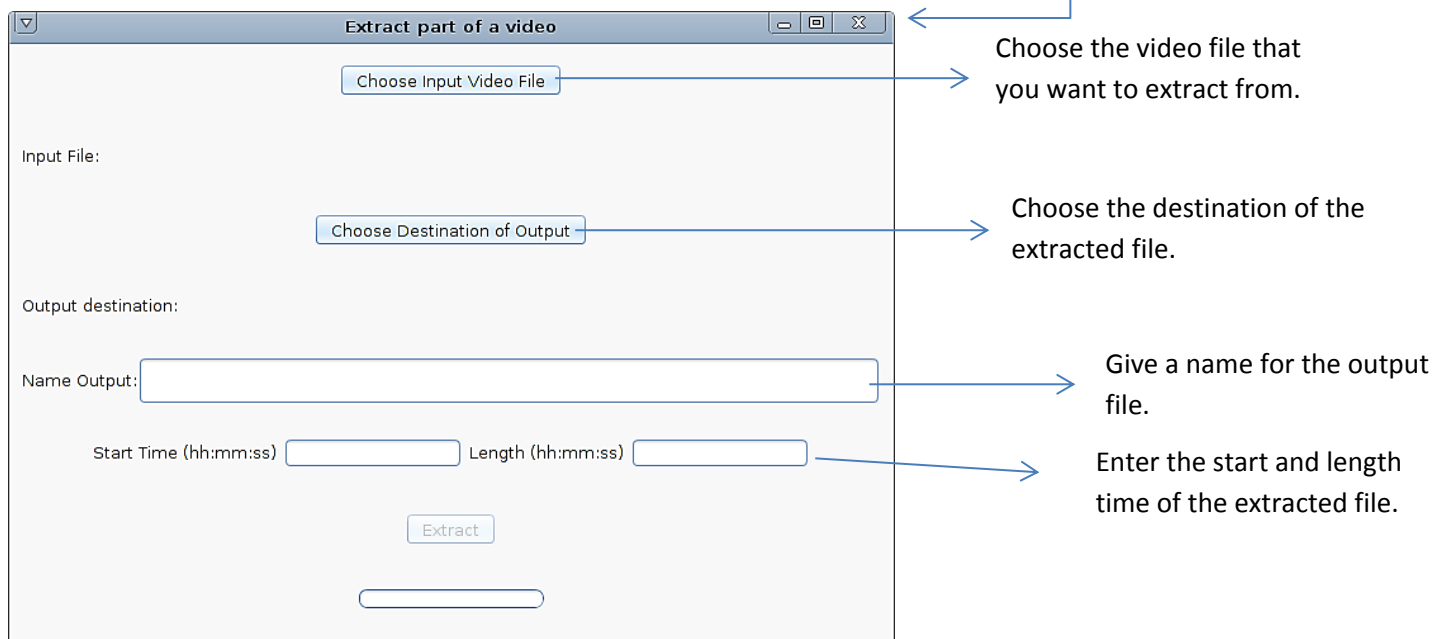


Figure 4 - Extract part a video window

If the fields are correctly filled out then the process will be allowed to carry on and complete. The times entered have to be in the format shown otherwise and warning will be thrown and the process won't happen.

The progress bar will show how much of the process has been completed.

Extract Part of a Video (Method 2)

Double click screen to start and end recording.

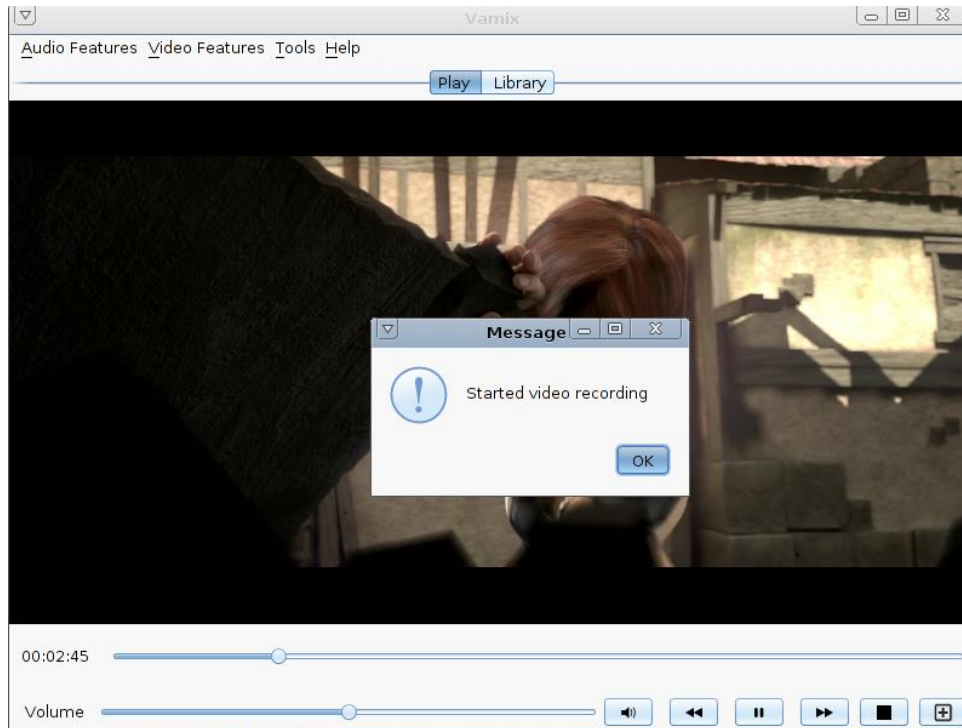


Figure 5 - Double click screen to start recording

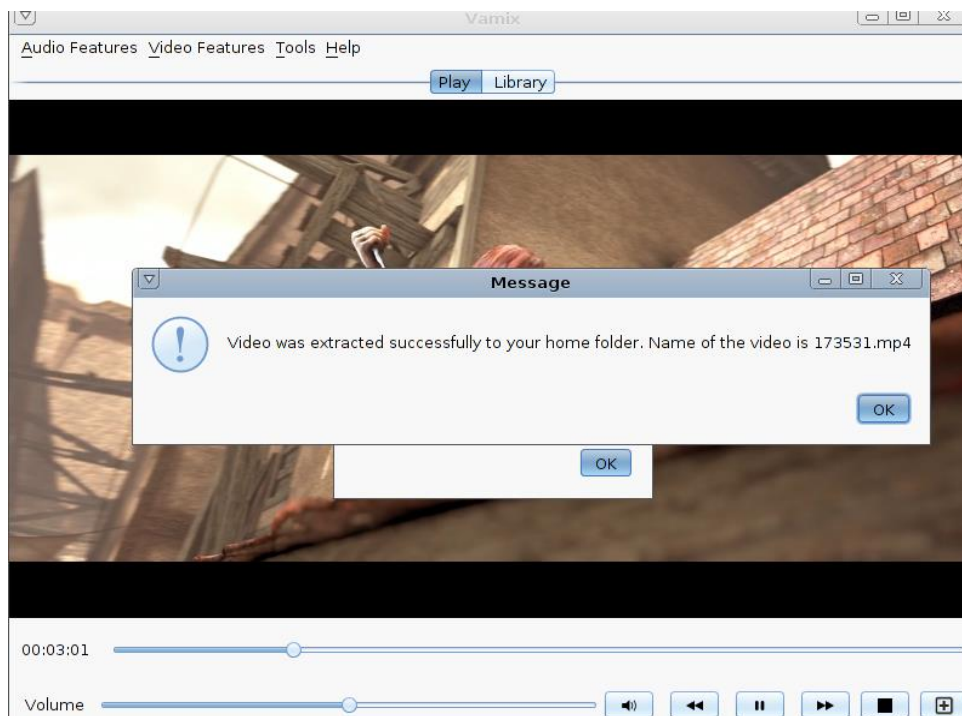
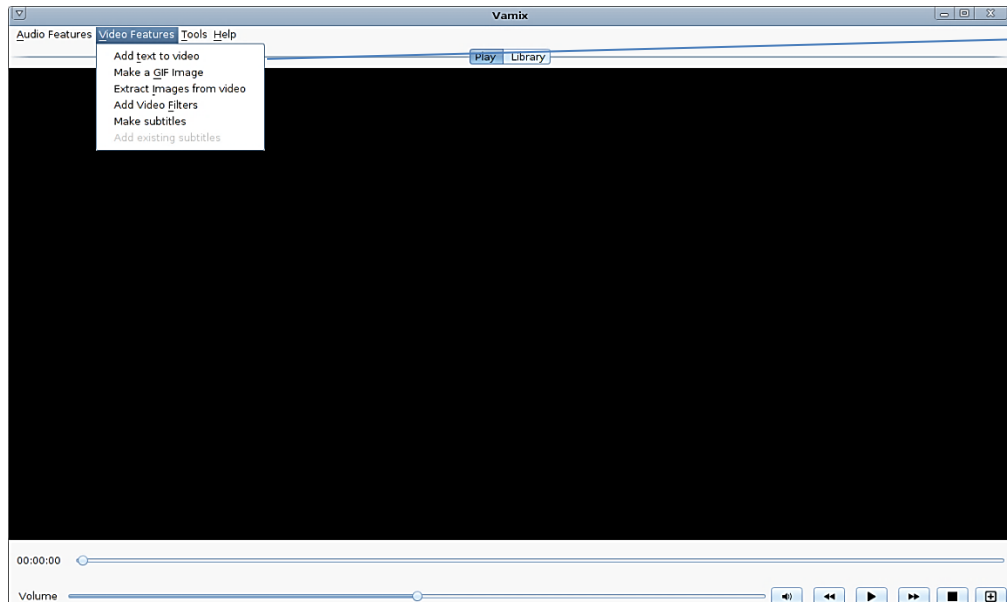


Figure 6 - Double click to end recording

The output file is saved to the users home folder.

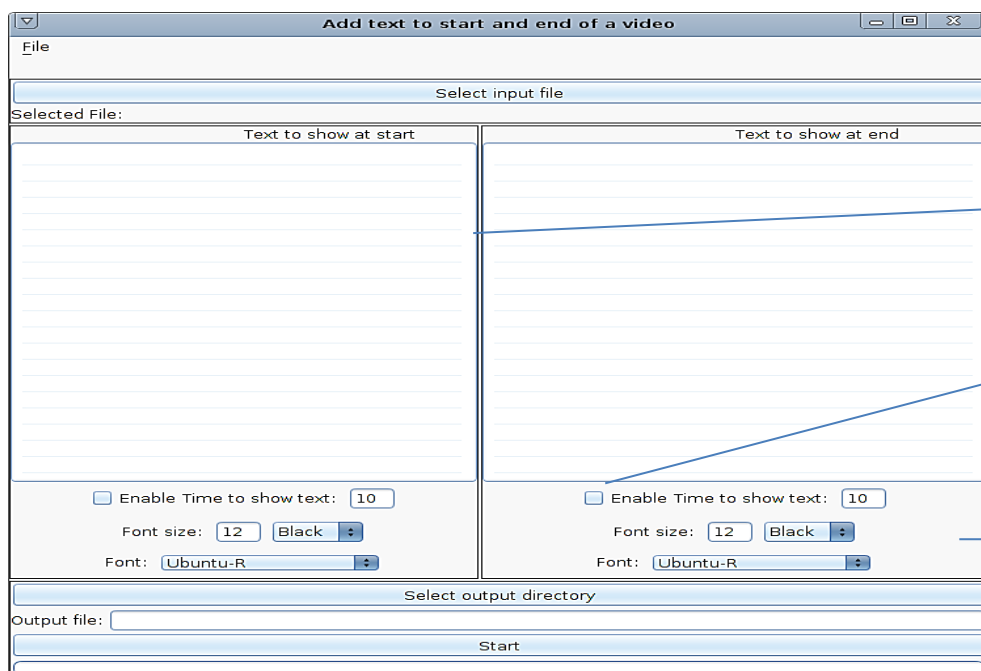
Add Text to a Video

This feature allows the user to add text to the start and end of a video.



Click this to go to the adding text window.

Figure 7 - Select adding of text



These are the areas to add text to the start and end of chosen video.

Check this button to enable adding of text.

Select the features

Choose an output directory and then give a name for the output file and then start the process.

Figure 8 - Adding Text Window

This feature adds text to the centre of the screen. Select all the options given to start the process. Also, the adding of text takes a while, so please be patient.

Make a GIF

This feature allows the user to make a gif by giving a video as an input.

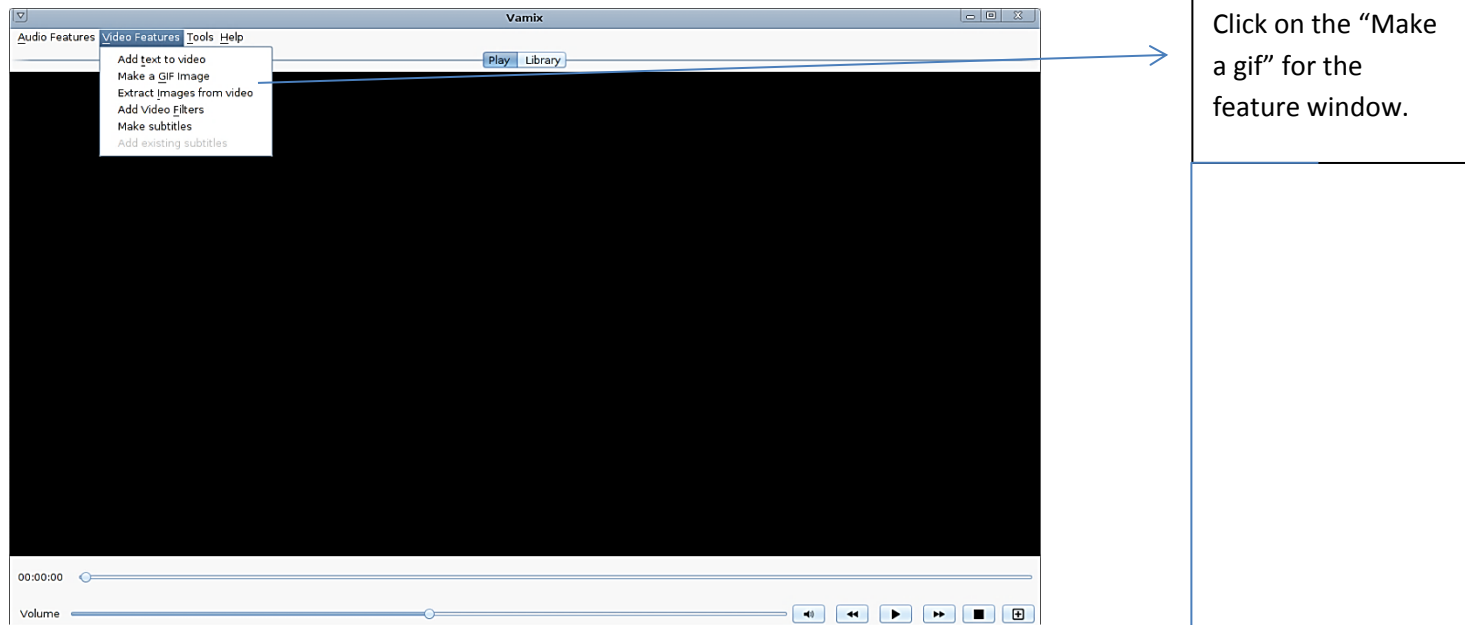


Figure 9 - Select making a gif

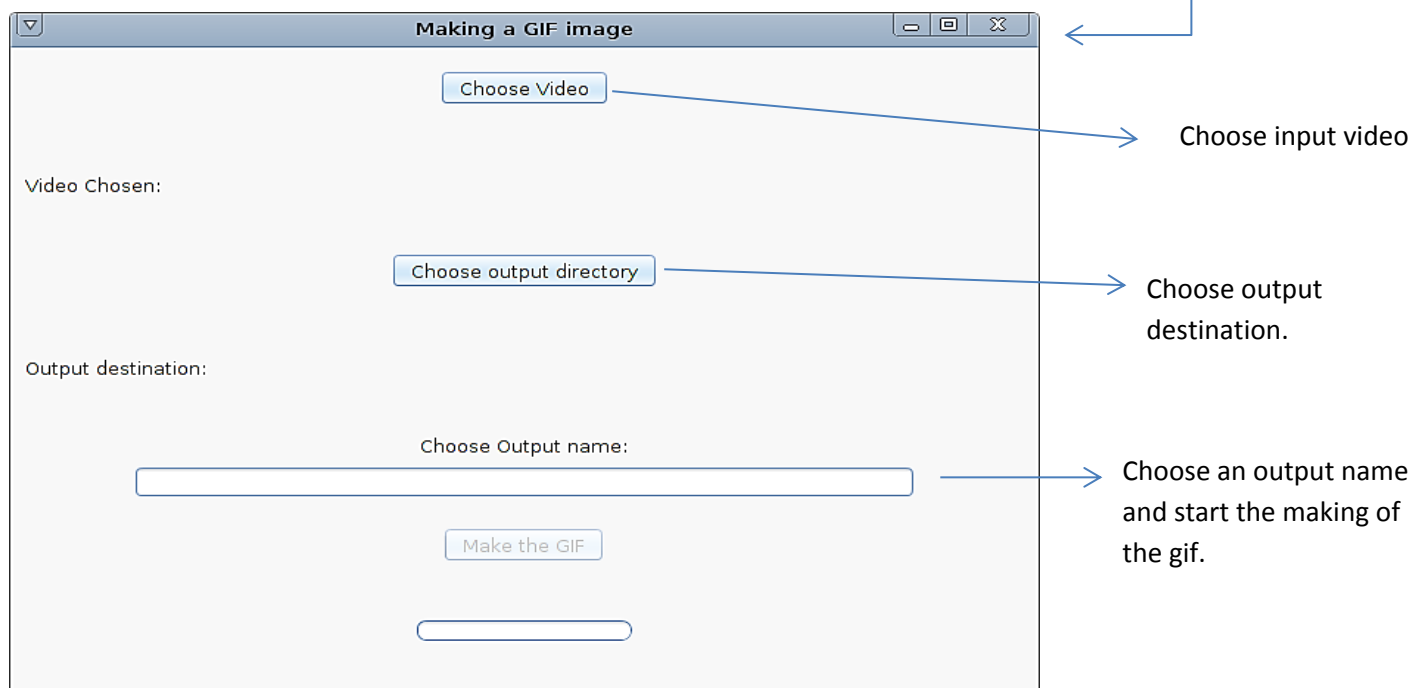


Figure 10 - Make a GIF

Do not input large video files! Making a GIF from a 30 minute video will not work!

Extract Images from Video

This feature gets a bunch of images from a video. Each image is from a frame of the video.

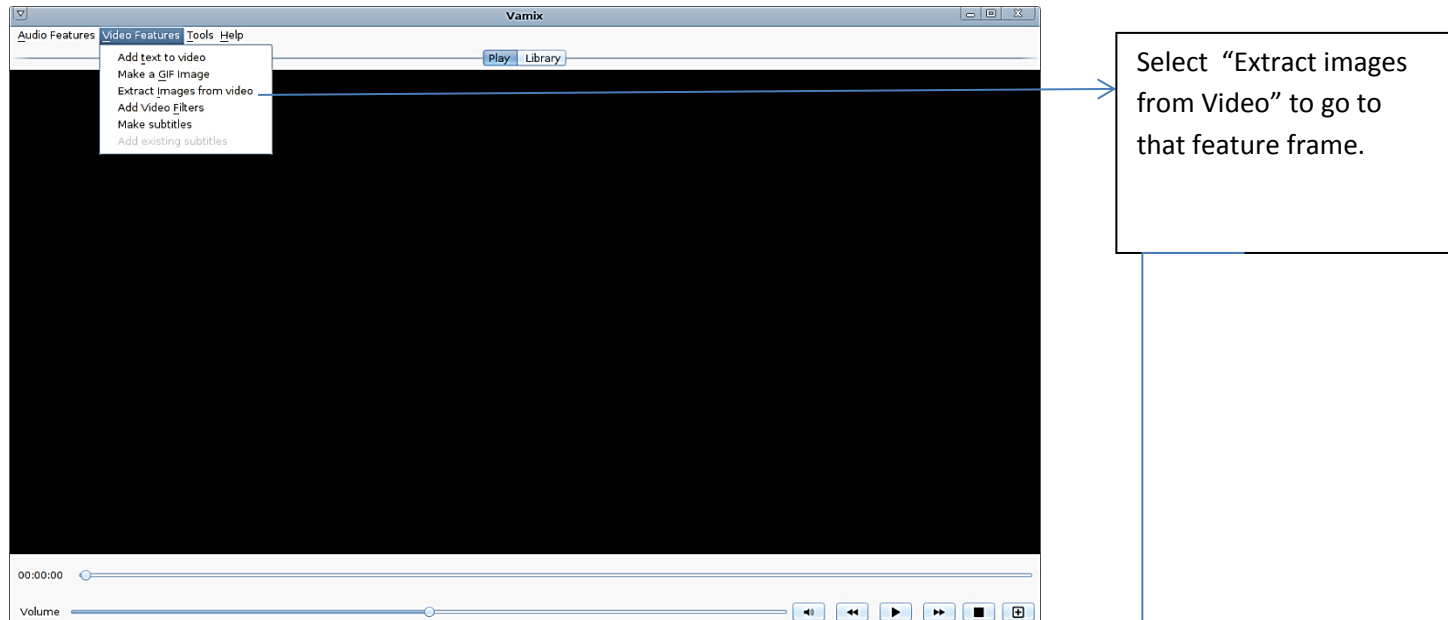


Figure 11 - Choose images menu

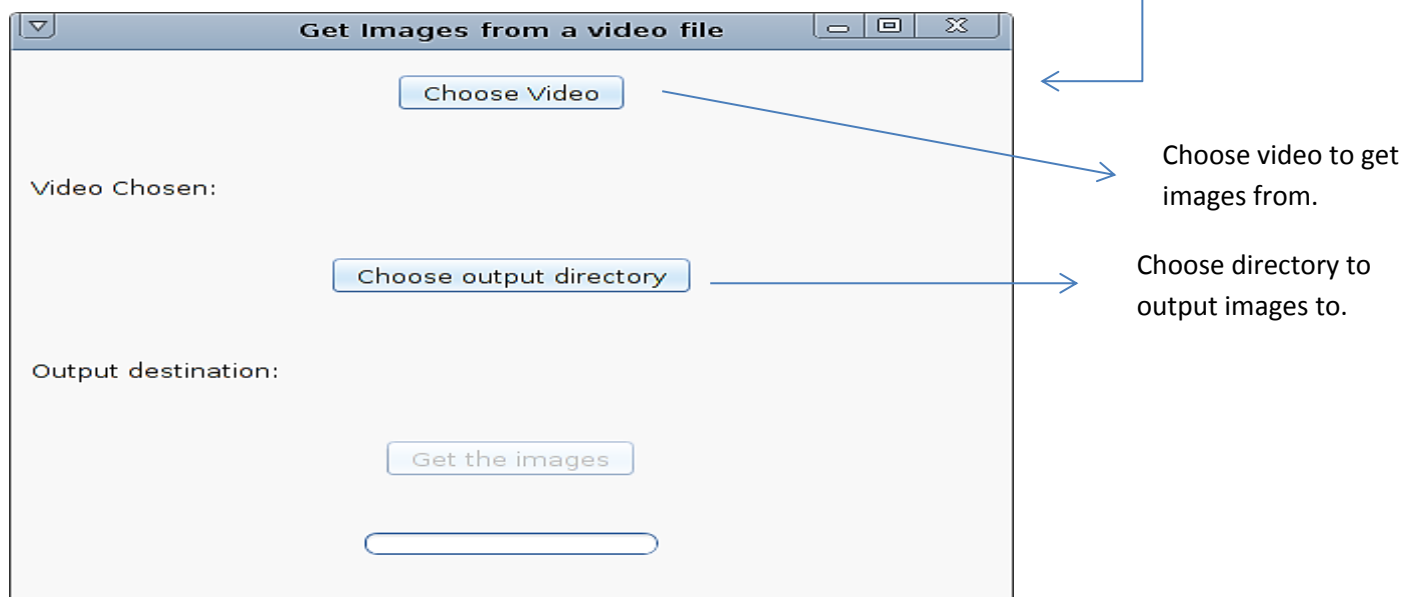
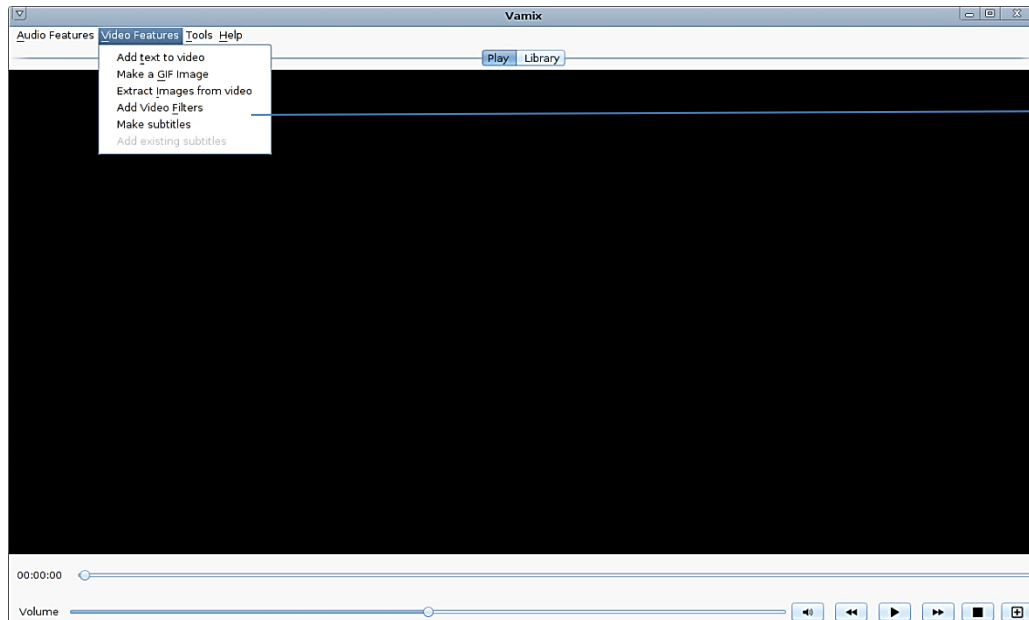


Figure 12 - Get images from a video

WARNING : LOT OF IMAGES ARE CREATED SO MAKE SURE THAT THE OUTPUT DIRECTORY IS NOT FULL!

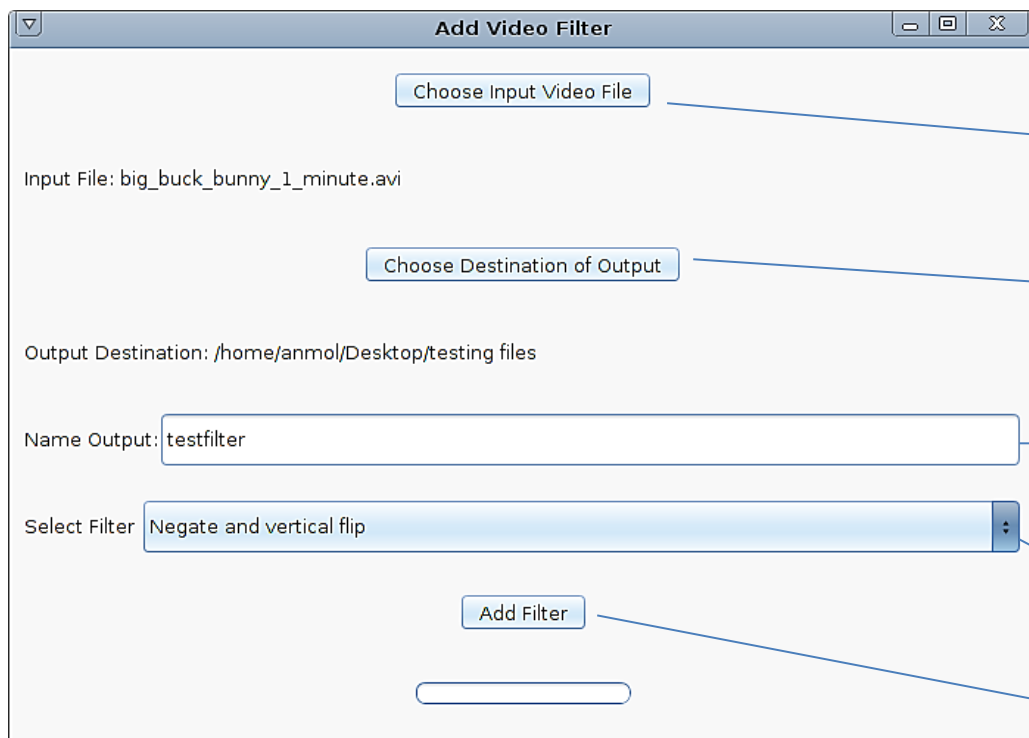
Add Video Filters

Many different kinds of filters can be added



Click to go to "Add Video Filters"

Figure 13 - Choose adding of video filter



Choose video file to add filter to.

Choose output destination for video.

Give a name for the output file.

Choose a filter to add from the list of filters given.

Add filter.

Figure 14 - Add a video filter

Make Subtitles

This feature allows the user to make a subtitle file for a video file.

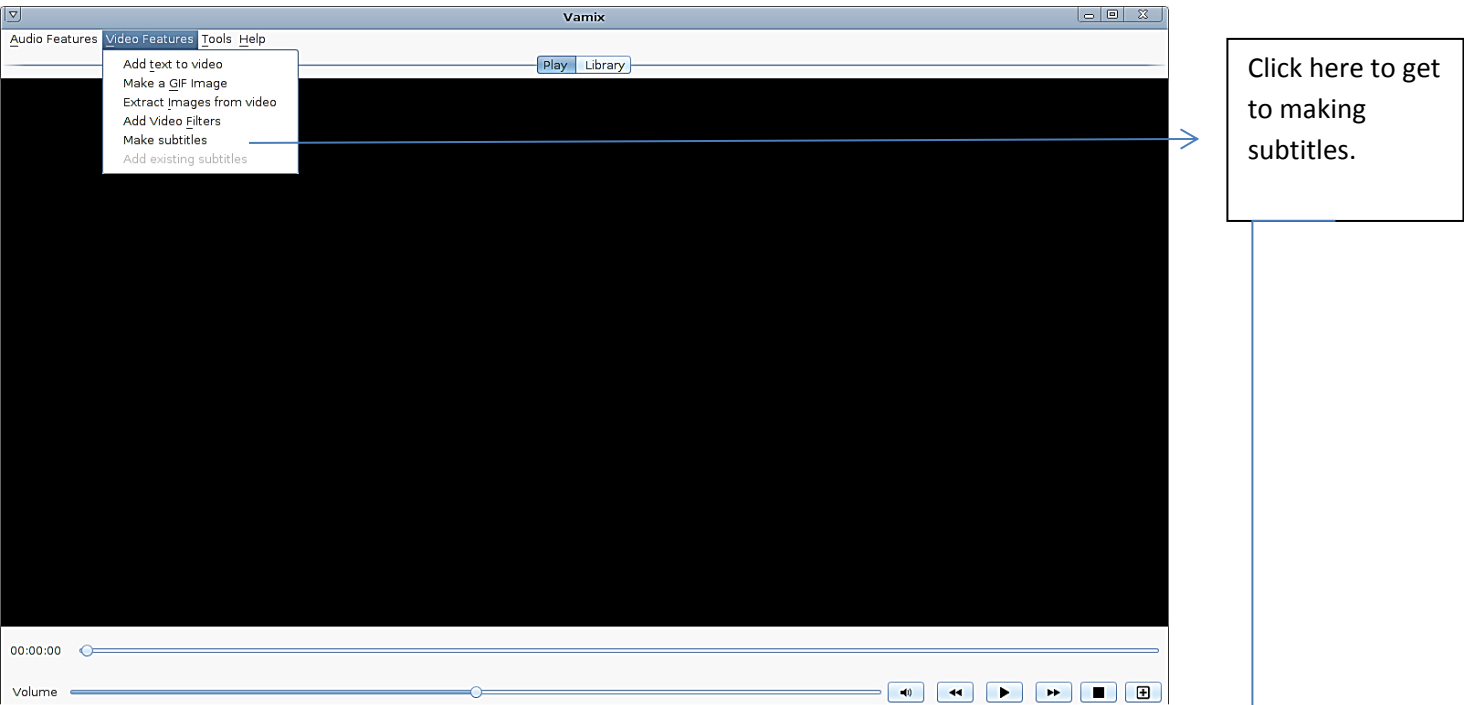


Figure 15 - Menu to get to making subtitles

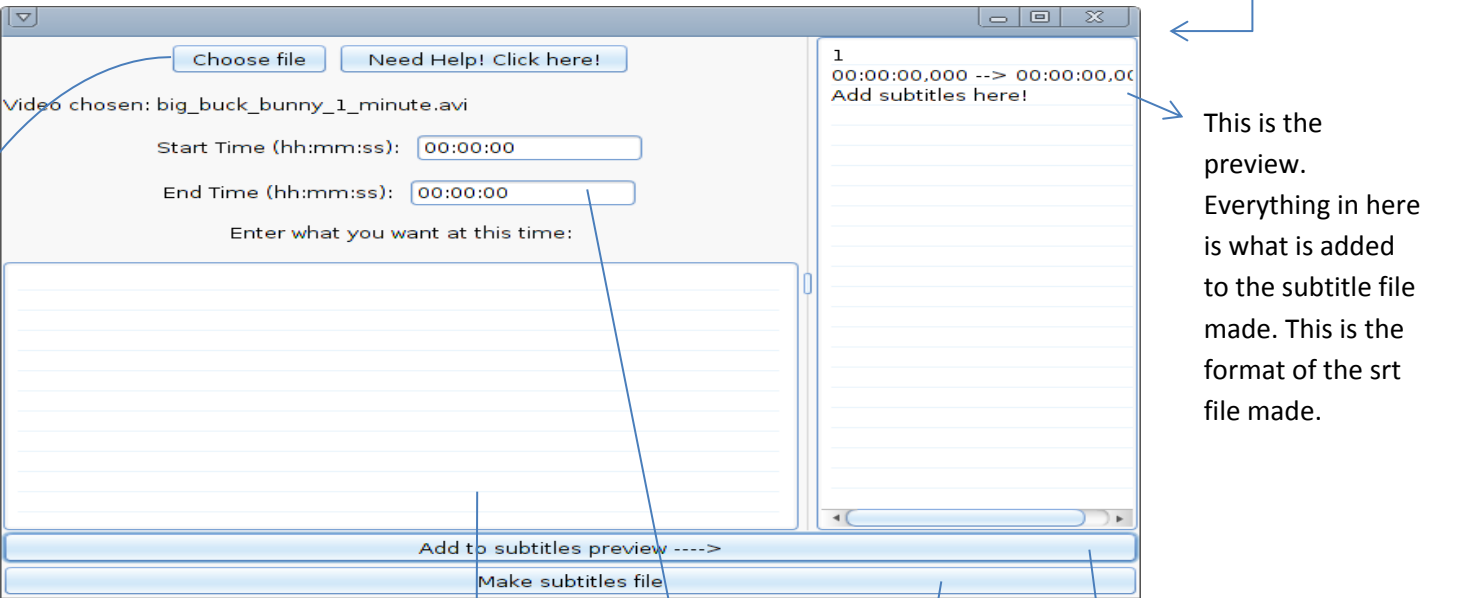


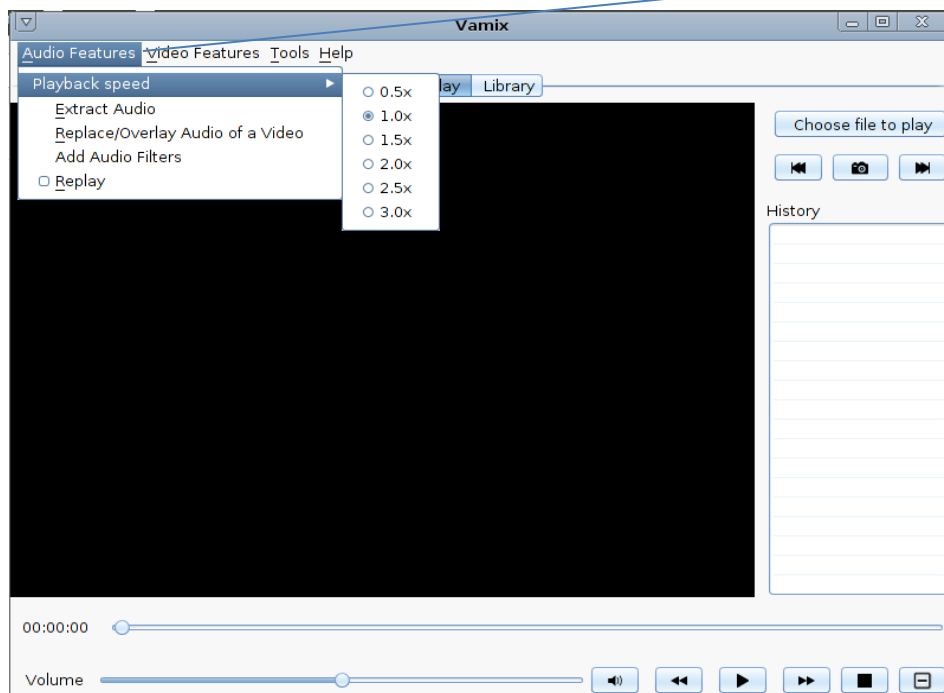
Figure 16 - Make a subtitles file for a video

Set Playback Speed

There are 2 ways to set playback speed. Both are shown below

Method 1:

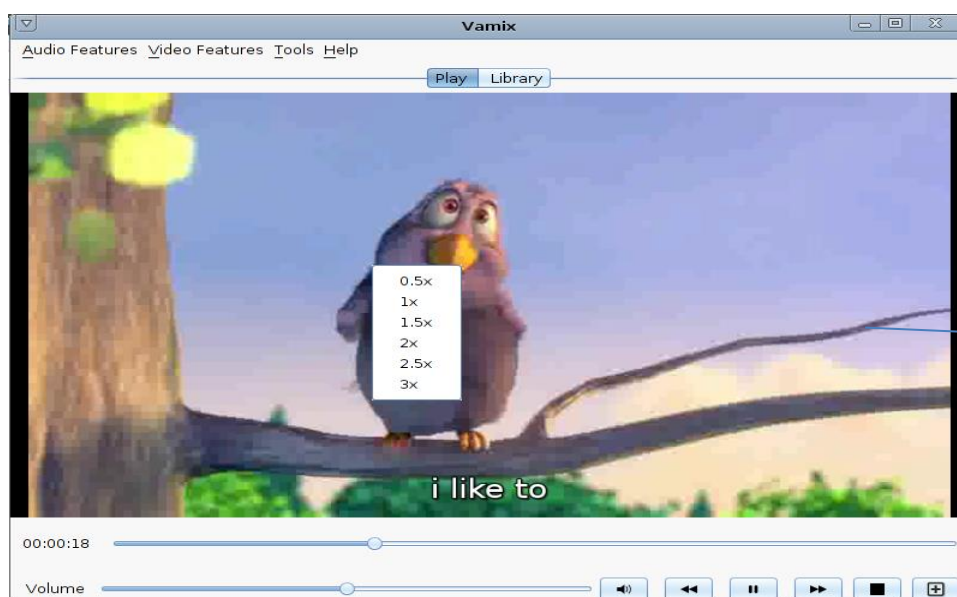
Set the speed from menu



Go to the Audio features menu and then go to "Playback speed" and set the speed to whatever you want.

Figure 17 - Set playback speed (method 1)

Method 2:



Right Click on main screen when the video or audio is playing.

Figure 18 - set playback speed (method 2)

Extract Audio from a Video

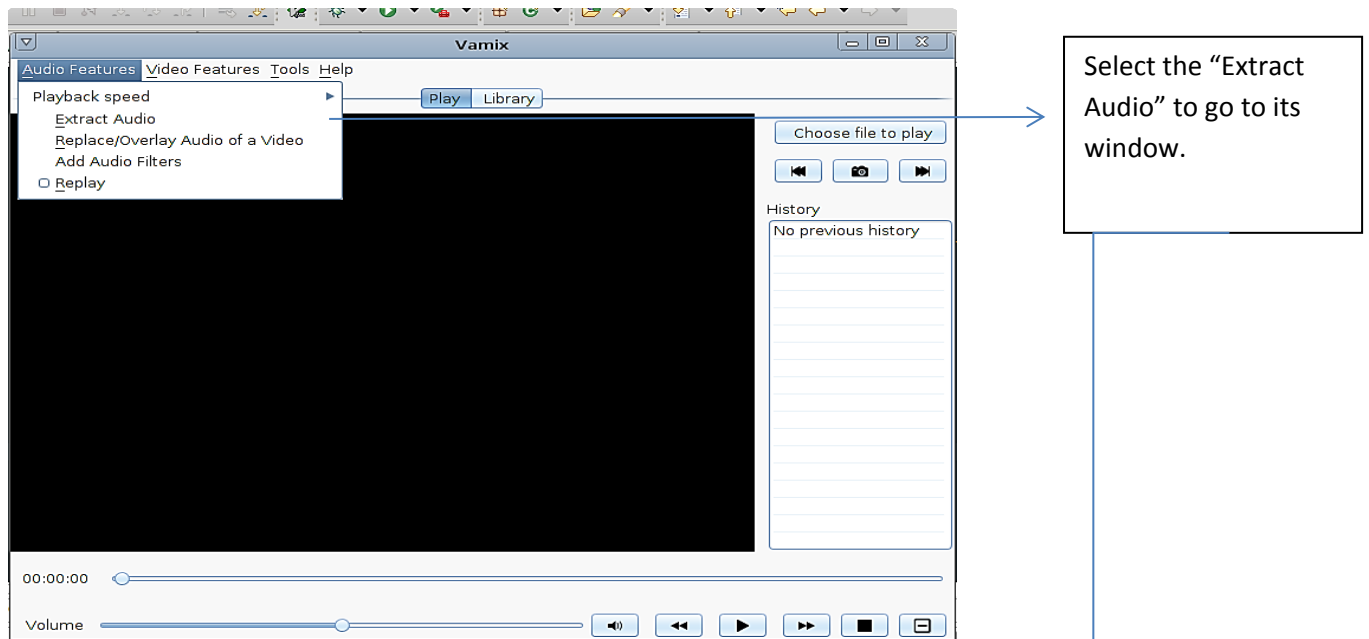


Figure 19 - Go to extract audio feature

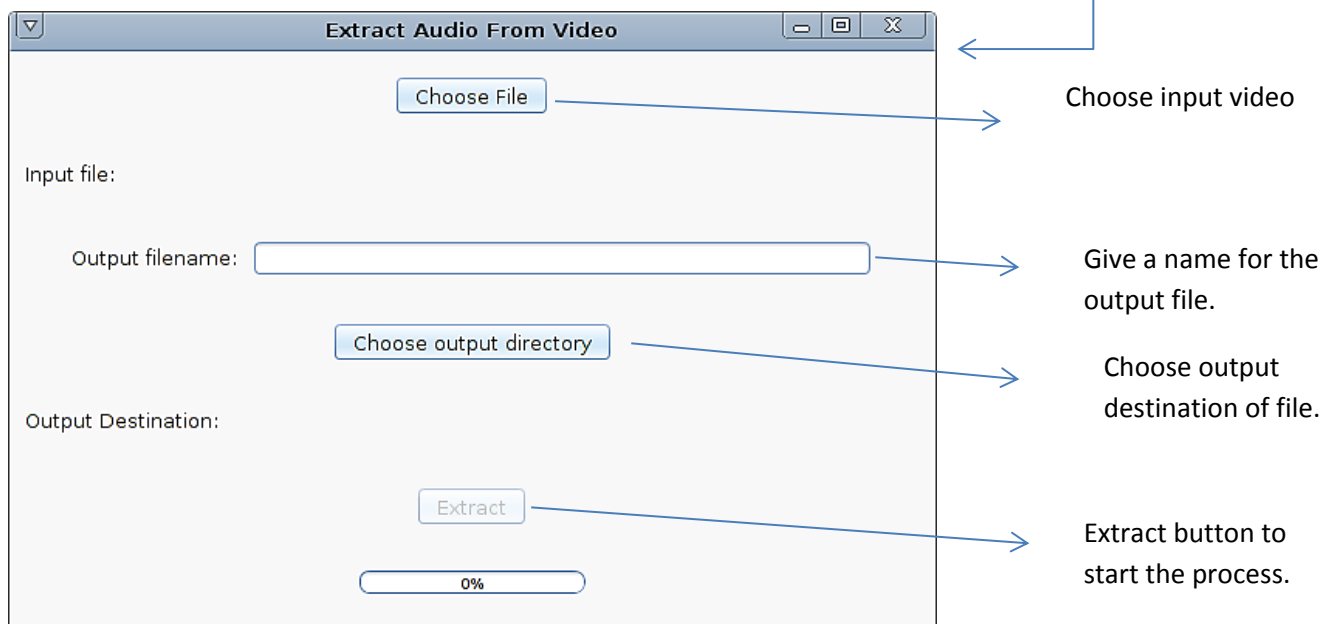
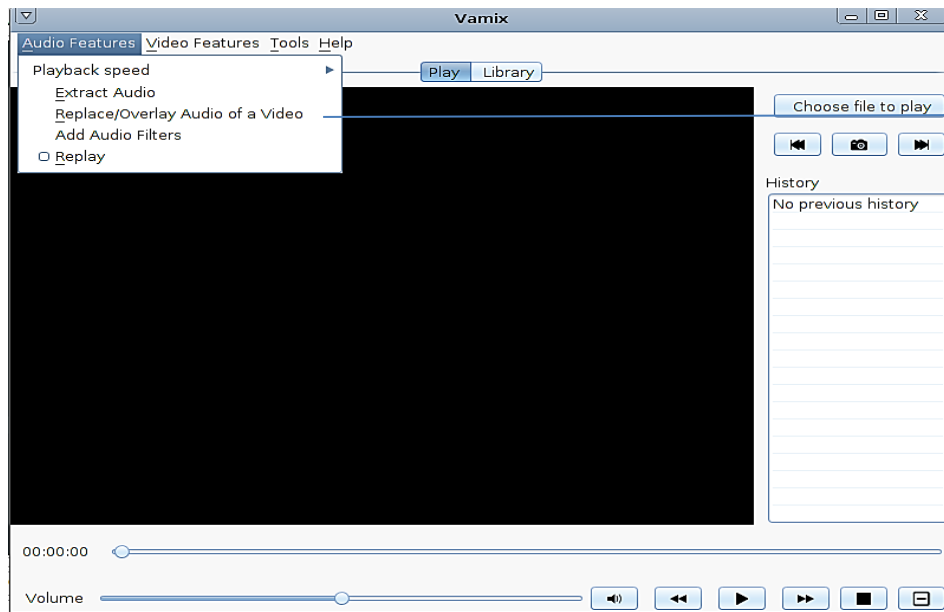


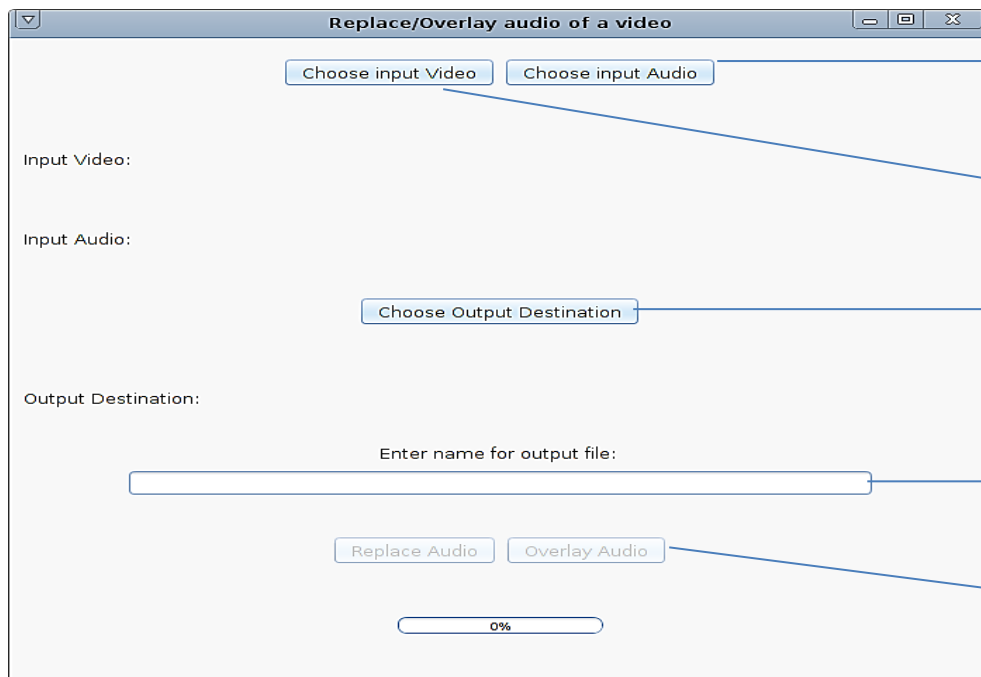
Figure 20 - Extract audio from video

Replace/Overlay the Audio of a Video



Select the
"Replace/Overlay
Audio of a Video"
to go to its window.

Figure 21 - Menu to get to Replace/Overlay window



Choose a video file as
input.

Choose an audio file
as input.

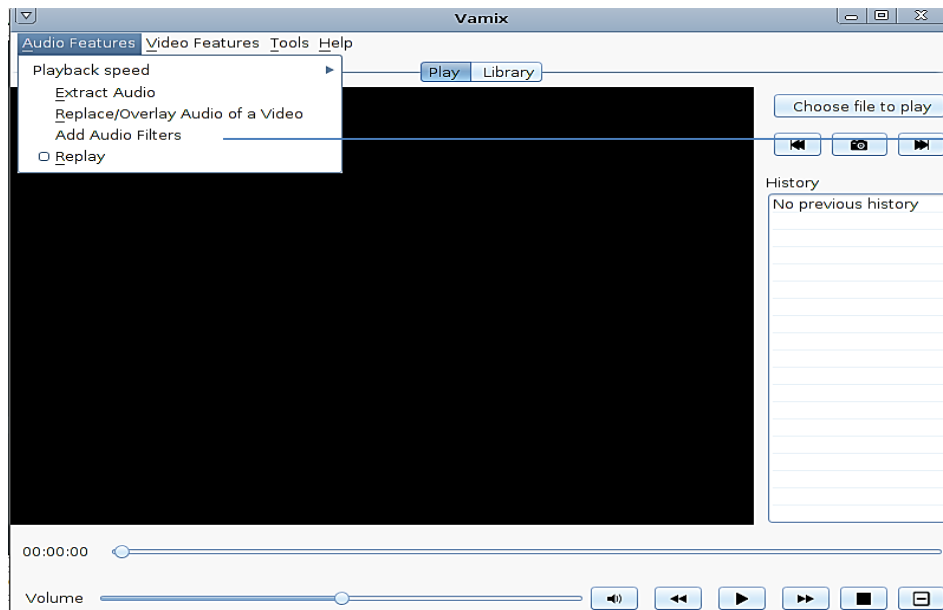
Choose a destination
for the output.

Give a name for the
output file.

Click either "replace" or
"overlay".

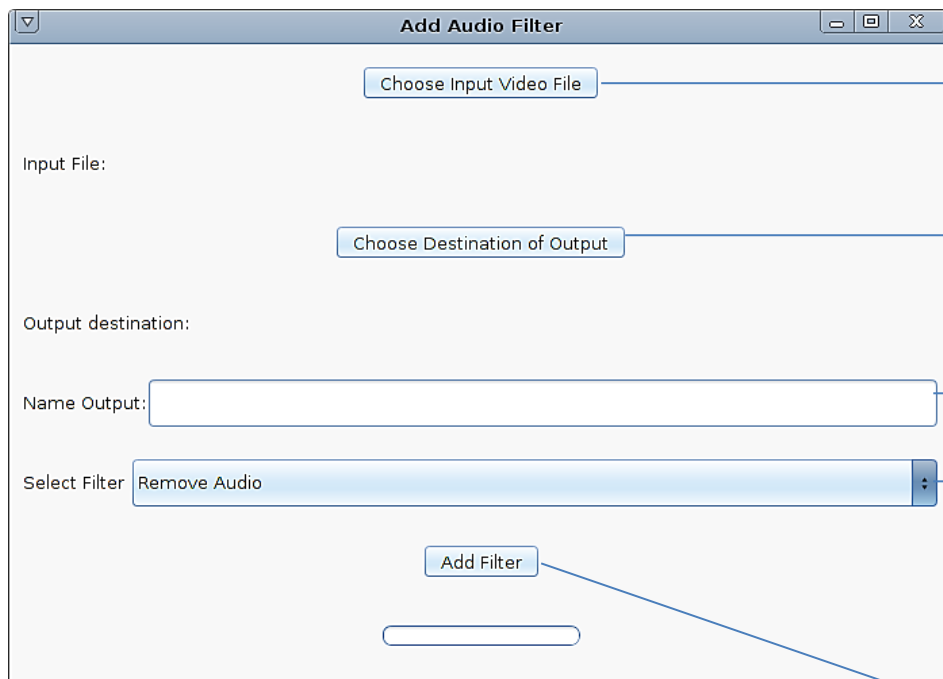
Figure 22 - Replace/Overlay Audio window

Add Audio Filters



Click this to go to the audio filters window

Figure 23 - Select Audio Filter window



Choose input video file to add a filter to.

Choose a destination for the output file.

Give a name for the output file.

Choose an audio filter.

Click this button to start adding the filter.

Figure 24 - Add Audio Filters

Currently there is only one audio filter due to avconv restrictions.
In future, there will be more features to choose from.

Playback Features

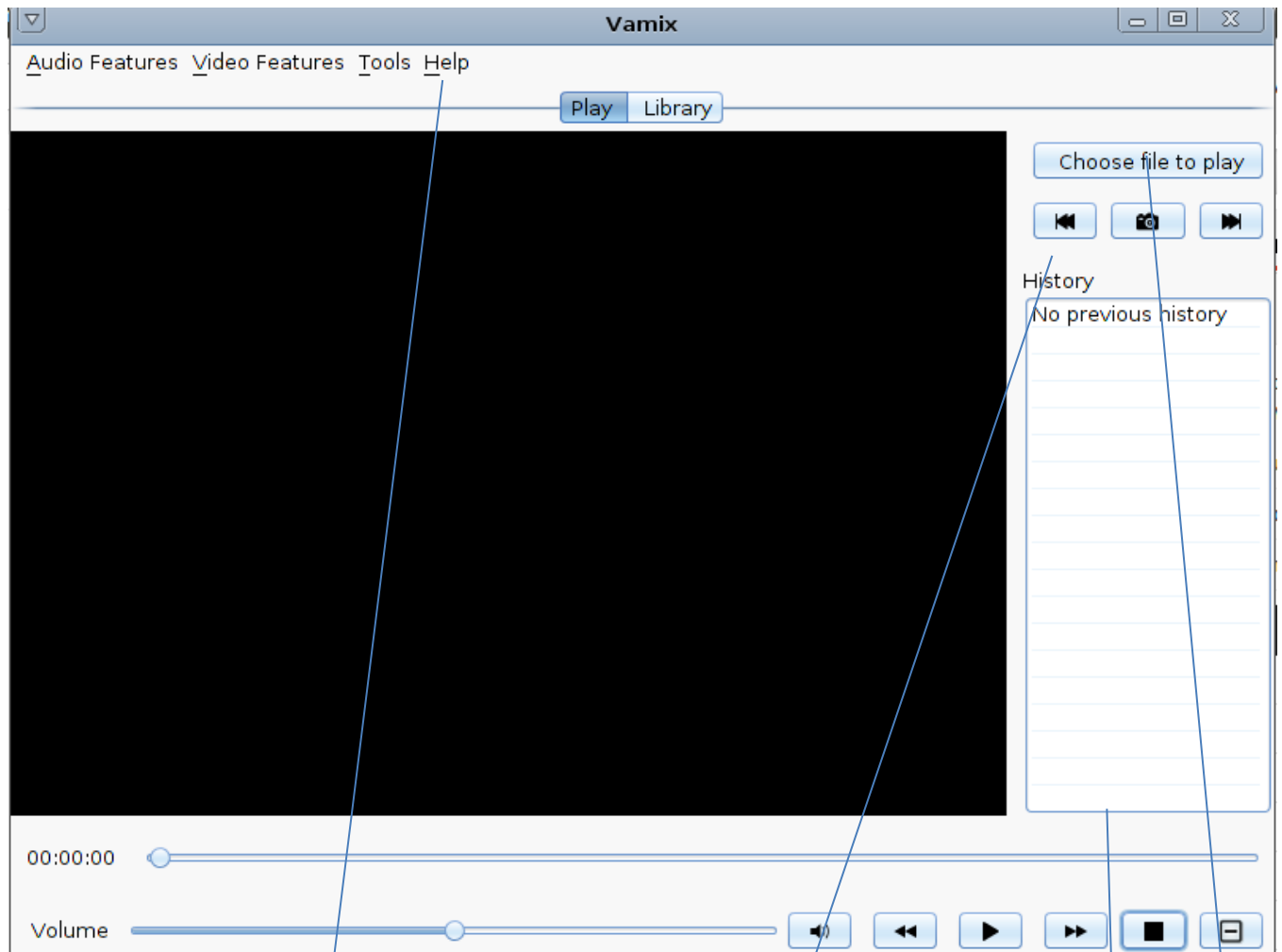


Figure 25 - Playback window

Help button to get a
readme file.

Other features (buttons):

Left to Right: skip back, screenshot,
history.

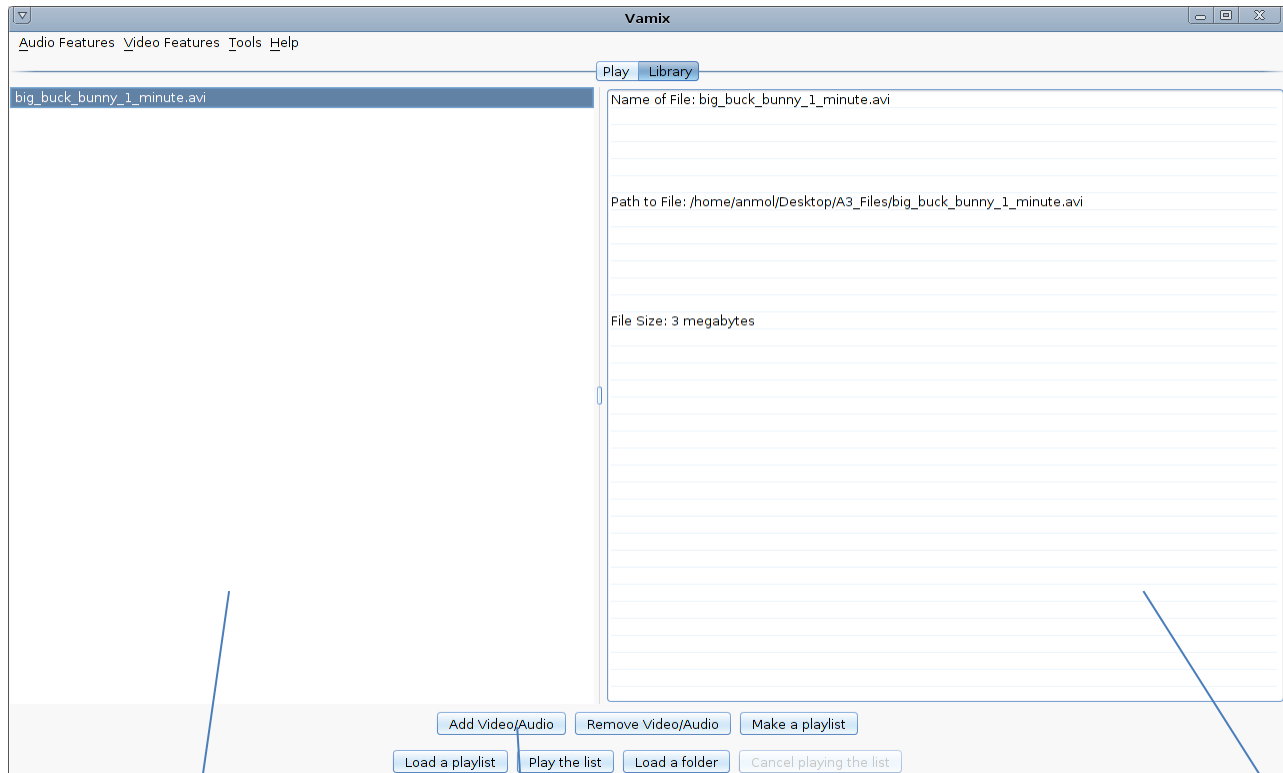
Click to choose
file to play.

History area is to
show what the
user has played

Normal playing features.

Left to right (buttons): volume, rewind,
play/pause, fast-forward, stop and toggle
panel.

Library



List which allows media files to be added and shown.

This loads an existing playlist. The playlist has to be made from VAMIX.

This adds an audio or video file to the list on the left.

This plays all the files currently in the list.

This loads all the files from a folder into the list on the left.

This button cancels the playing of the list. It has to be pressed otherwise the list will keep playing.

This is an area that shows info about the media file selected.

If the file name is clicked TWICE in the list on the left that file gets played instantly. The remove audio/video allows the user to remove multiple files by selecting the file while pressing control key.

Other Features

The replay function is in the “Audio Features” tab and can be toggle on and off. It loops the media file currently being played in the media player.

Copyright

All images used for the icons were from www.iconfinder.com. They were all free icons. The icons were used for an academic purpose only.

Hot Keys

Alt-a-e = Extract audio from a video

Alt-a-r = Replace/overlay audio of a video

Alt-v-t = Add text to a video

Alt-v-g = Make a gif image

Alt-v-l = Extract images from a video

Alt-v-f = Add video filters to a video

Alt-t-o = Download a media file

Alt-t- d = delete history

Alt-h = open readme file.

Hold the alt key and press the characters mentioned in order.