Instruction Manual
for
Kdenlive & PiTiVi

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BLG 374

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Purpose of the instructions

The aim of the instruction set is to provide necessary video editing skills to the user. After completing the manual, the user should be able to develop professional videos for any purpose. The user should be able to manipulate and bend the videos for the user's will. It is very important that the user attains the basic and necessary skills to perform complex and intricate operations. To comply with our criteria import, montage, video effects, audio effects, credits and export topics are selected. As it can be seen each component may seem simple, yet their combination forms the basis of professional video editing. Import is necessary to get videos and manage the project, while montage is necessary for intermingling audio and video. In addition, video and audio effects form the meat of the meal as they are necessary to create effective and influential videos. Every professional movie has a credits part. That's why accreditation is very essential and it is provided in our manual. To complete video deployment, rendering which is known as export for non-technical people is demonstrated.

Main task is **Montage.**

This instruction manual contains two different packages of software. The first one is Kdenlive and the second one is PiTiVi.
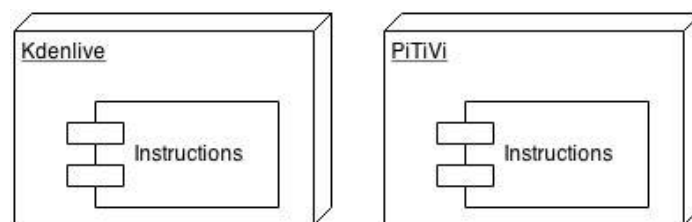
Figure 1 Instruction manual packages

Manual for Kdenlive

In this part of the manual, usage of Kdenlive is demonstrated.

Task List
1) Import a video or an audio file
2) Do montage
3) Do video effects
4) Do Audio effects
5) Do the Credits
6) Export a video

Kdenlive is a video editing tool designed for expert video editors. Many complex and professional capabilities are embedded into Kdenlive. That is why more complicated tasks can be done in Kdenlive.

Kdenlive Tasks

Create a project

Kdenlive works in the form of projects. Kdenlive organizes video edit work as a project. By using the project, Kdenlive can use it to organize it with project tree.
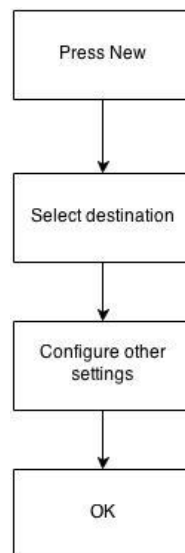
1) Press the *New* button on the menu bar.

Note: Project Settings windows will open.

2) Select the destination.

3) Configure the settings.

4) Press OK button.

Figure 2 Project creation in Kdenlive

Import a video or audio file

Once the program is open, the user needs to import source files into the program so that they can be edited.

1) Press the film icon near the Project Tree.

Note: A new window will pop up.

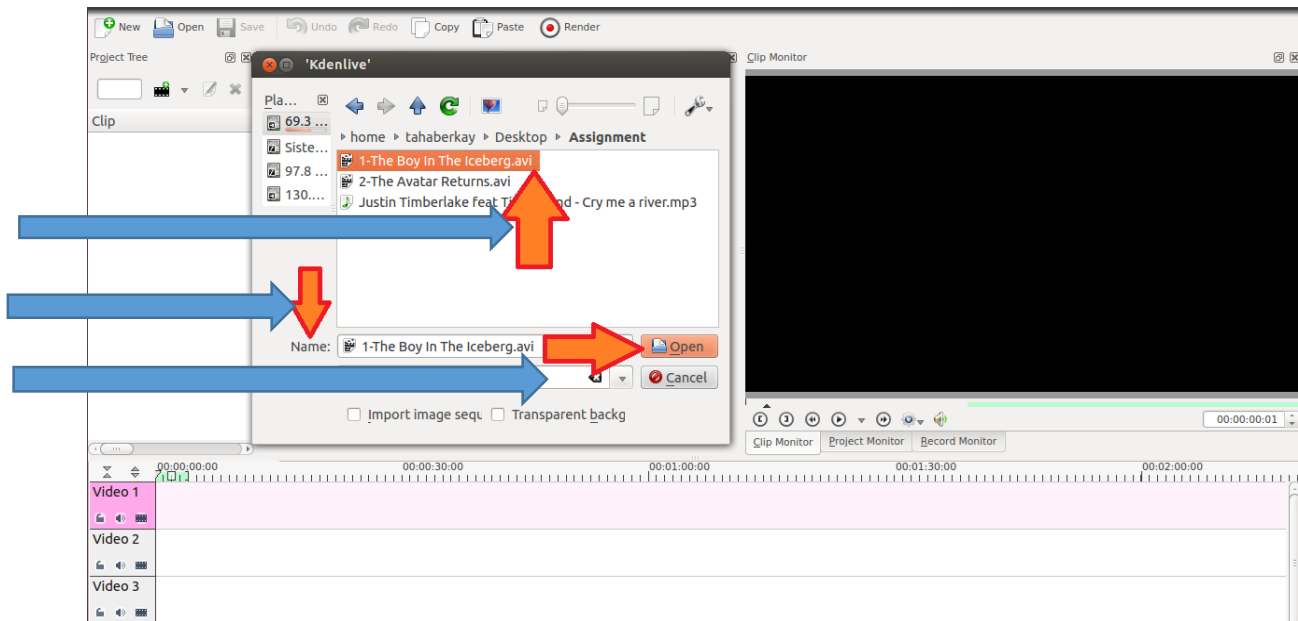**2) On that window locate the source files.**

Figure 3 Locate files

3) Press open

Note: The source file will be put into Clip.
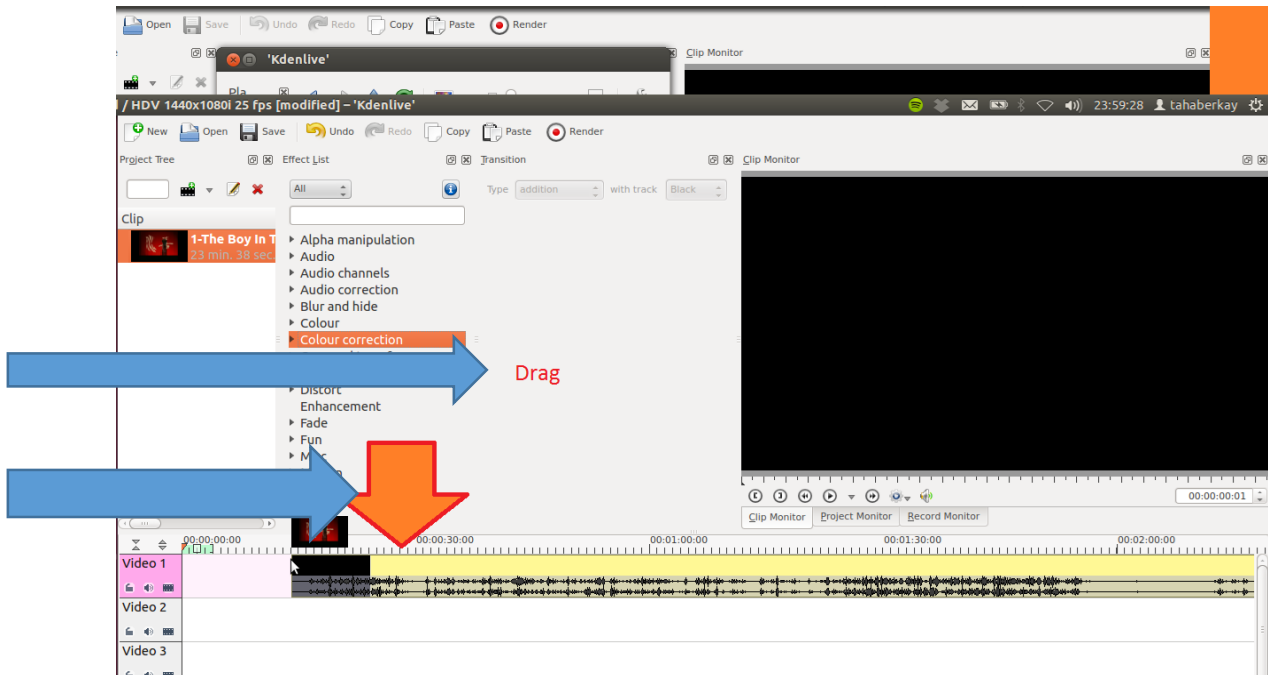
4) Drag the file into the timeline.

Figure 4 Imported file dragged into timeline

Do montage

Put many clips in sequential order.

Montage is very flexible in Kdenlive. It is very professional. Once the resource is placed in the timeline montage activities can be performed.

1) Select the clip in the timeline.

2) Press the cut button in the bottom menu bar.

3) Use the cut cursor on the clip.

> *Caution: The cut cursor is very dangerous as it can cut rapidly. Beware its use. Do not forget to use Undo button in the menu bar.*
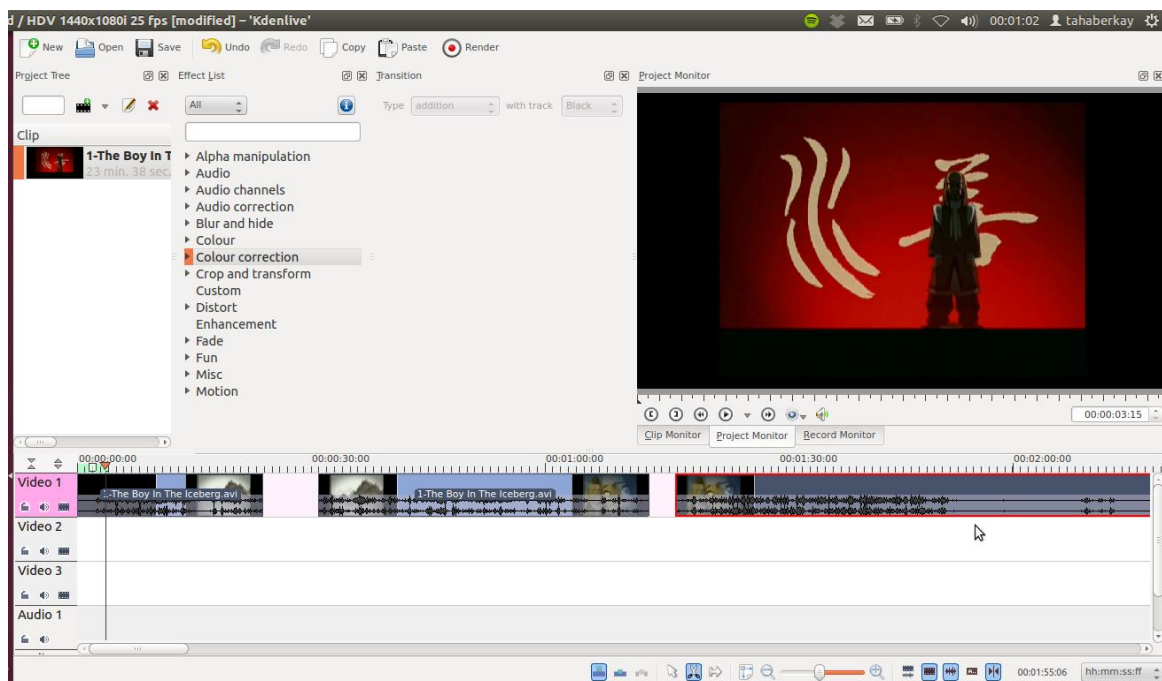

Figure 5 Montage

4) Put the cut clip onto the upper video panel.

5) Move another cut clip to the position of the clip which is cut at step 4.

6) Take the video that it is in the upper panel and put it in the lower panel, where the clip in step 5 is located.

7) Continue to arrange the clips according to preference by repeating steps 4,5,6.

Do video effects

There are many effects in Kdenlive. Kdenlive is one of the most powerful tools in open source realm for video editing. Videos must be present in the timeline.

1) Under the effect list, press the list

Figure 6 Effect list

2) Choose video

Note: Effect list will be displayed.

3) Choose one of the effects.

4) Drag and drop the effect on a selected clip.

Note: There are many methods for adding effects. Right click or other methods can be used. To not complicate matters only one method is demonstrated.

Figure 7 Video with effect

Do audio effects

Kdenlive is one of the most powerful tools in open source realm for video editing. Audio files must be present in the timeline.
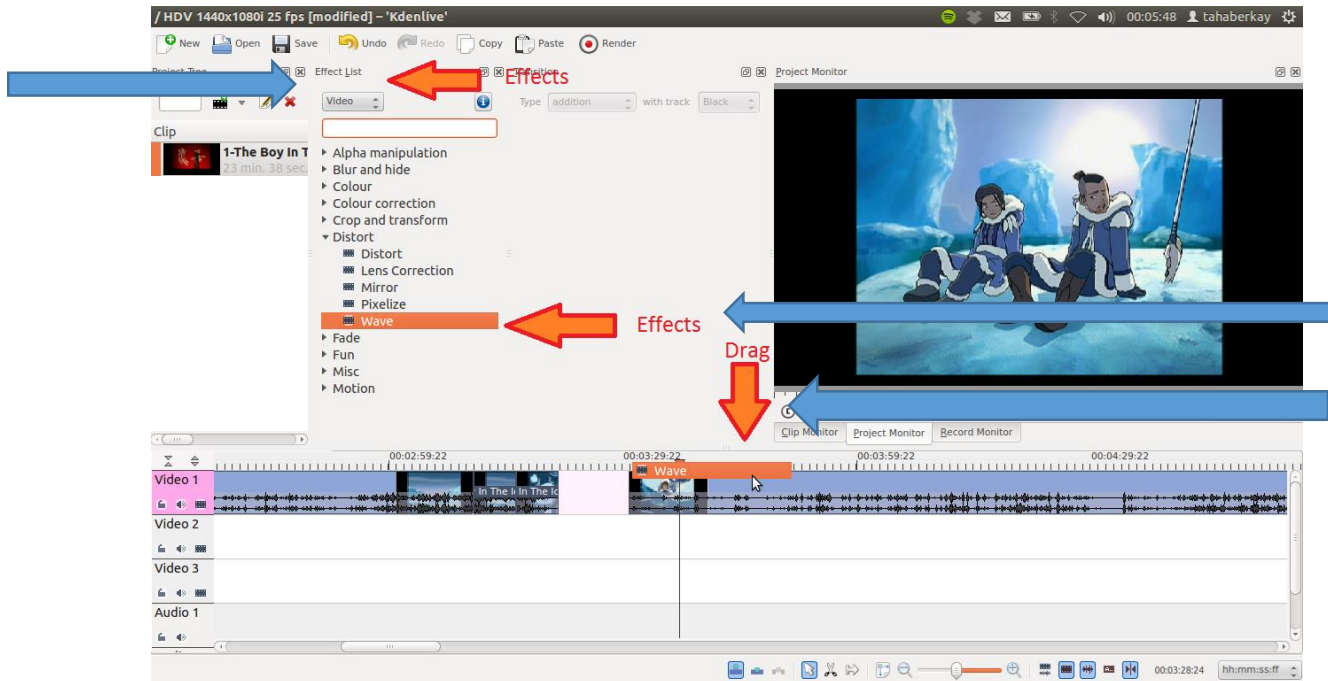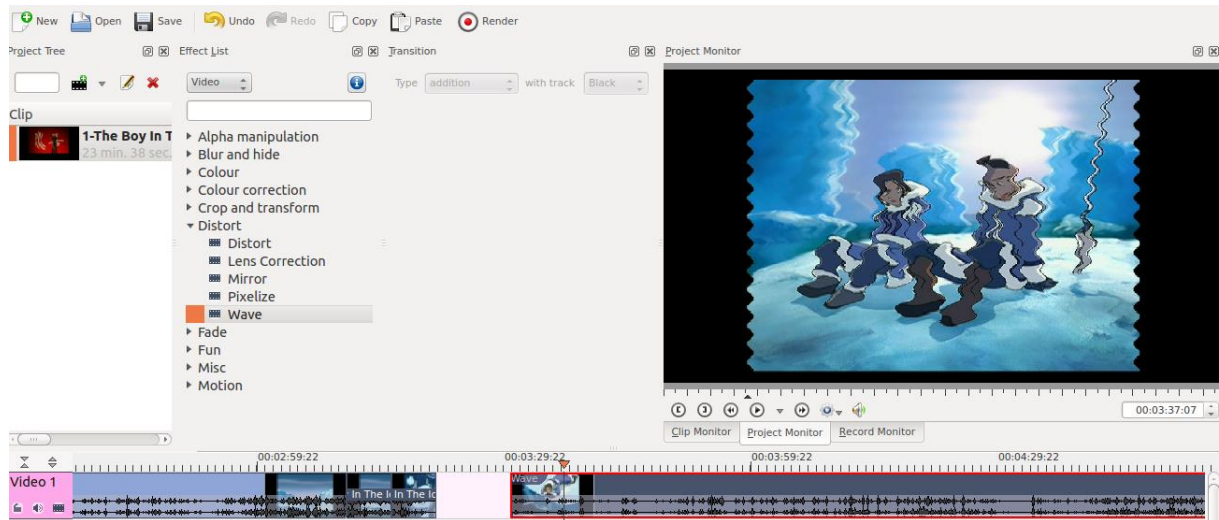
1) Under the effect list, press the list

2) Choose audio

Note: Effect list will be displayed.

3) Choose one of the effects.

4) Drag and drop the effect on a selected clip.

Note: The situation presented in video effects apply to audio effects.

Do the Credits

There is a trick in Kdenlive to create an advanced credit scheme. This is a very complicated process and comes as a bonus for this manual.

Requirements: An image editor (A program like photoshop)

1) Prepare a stable and static image of the credits in the image editor program.

2) Import the picture into the program

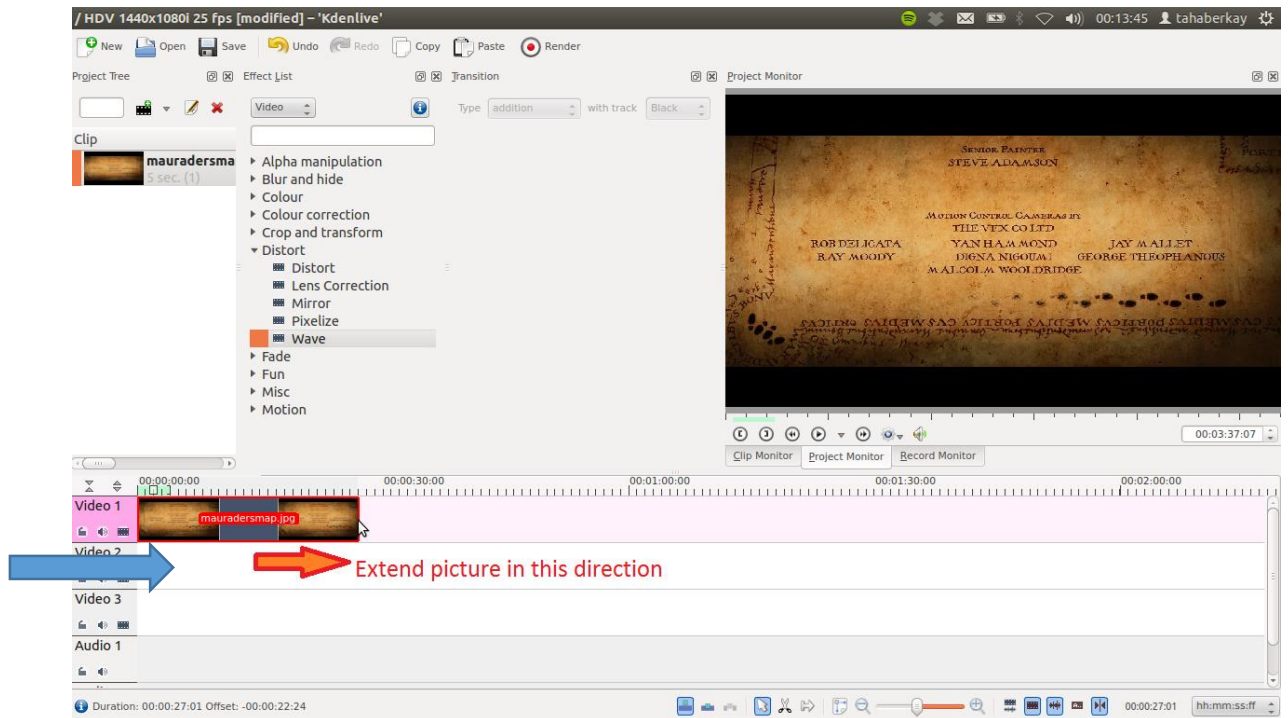**3) Extend the time of the picture as much as you want**

Figure 8 Picture extension

4) Right click onto it

5) Add transition

6) Choose composite

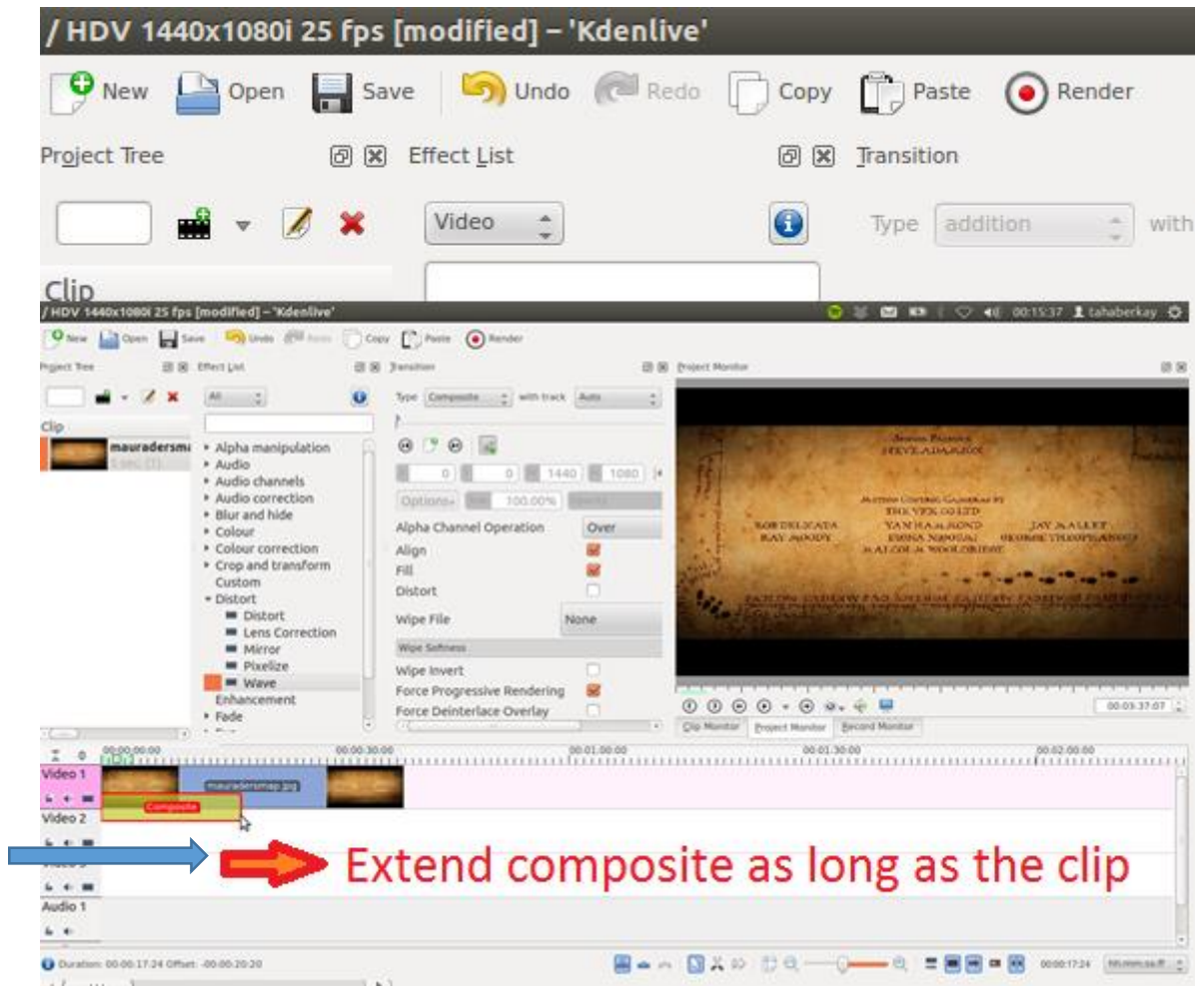**7) Extend the composite in the timeline to the length of the video.**

Figure 9 Composite extension

8) From the view, open the transition window if it is not open.

9) Change *with track* to black in the transition view.

10) Add a key frame to the beginning and end of the image.

11) Modify the height and width according to the screen size in each key frame.

12) Make the Y coordinate of the first key frame a very big negative number.

13) Modify the Y until it fits your needs.

Credits are ready.
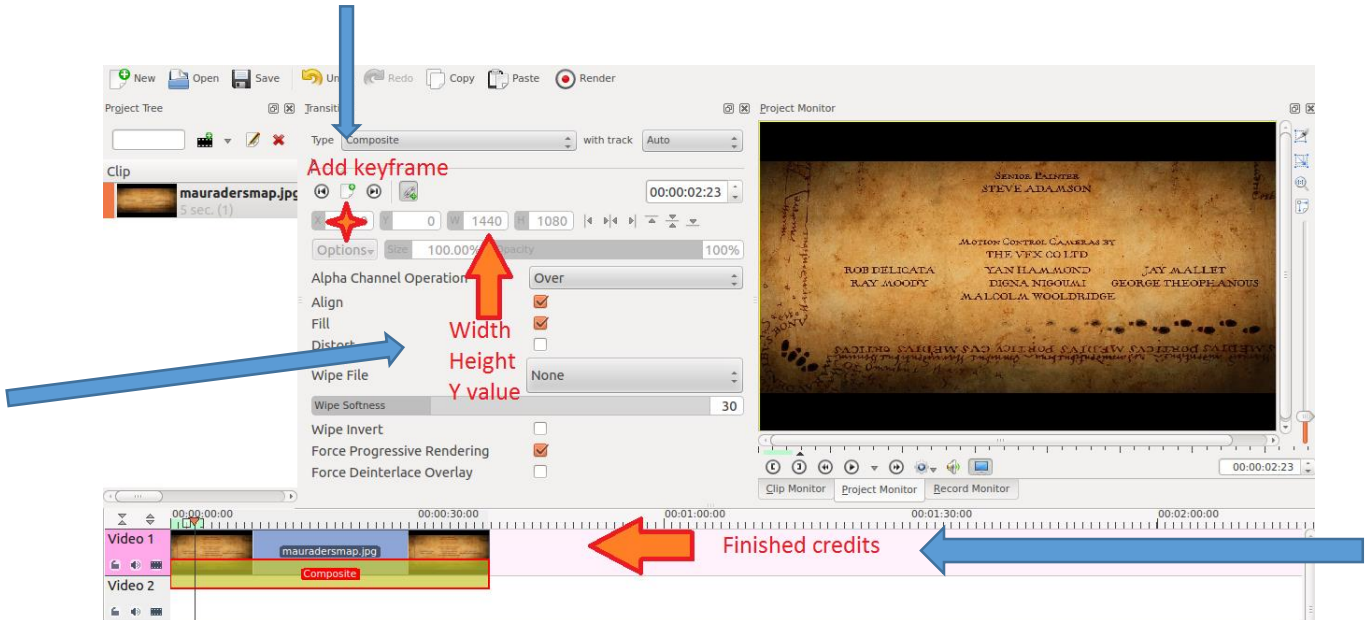
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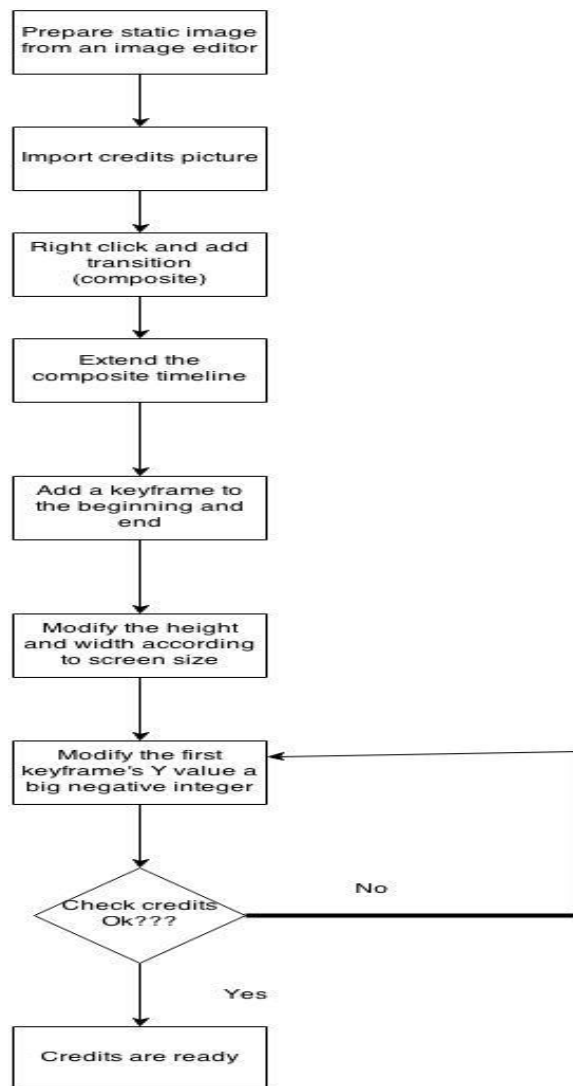*Figure 10 Credits completed*

Figure 11 Flow diagram for credits

Export a video

Rendering is very professional in Kdenlive. The high quality output is very rare in the realm of open source software. Kdenlive is an expert in the area of exporting projects.

1) Press the *Render* button on the menu bar.

2) Choose output location.

3) Make configurations.

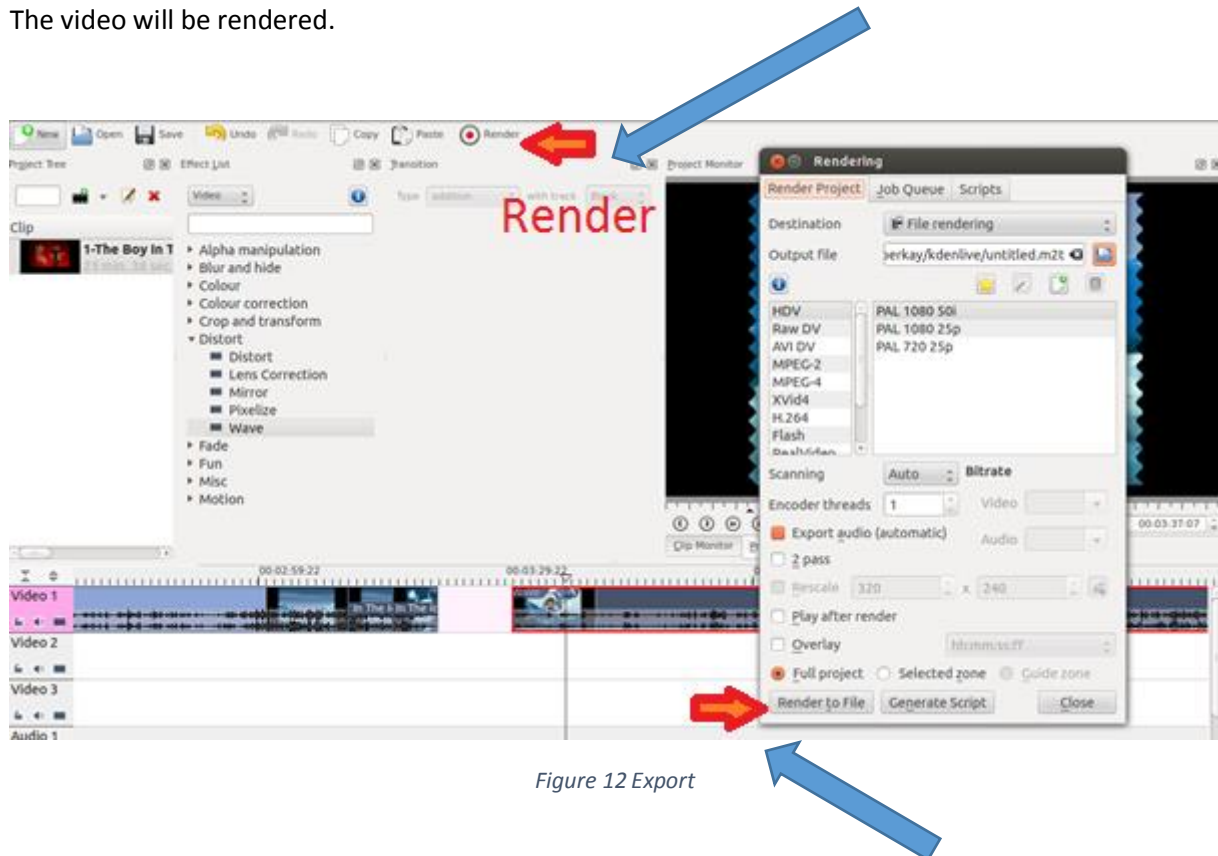**4) Press *Render to File.***

The video will be rendered.

Figure 12 Export

Manual for PiTiVi

In this part of the manual, usage of PiTiVi is demonstrated.

Task List
1) Import a video or an audio file
2) Do montage
3) Do video effects
4) Do Audio effects
5) Export a video

PiTiVi is an easy video editing tool. Even though it can be used to create amazing videos, it falls short compared to Kdenlive's capabilities. Still for a beginner, PiTiVi is an ideal choice.

PiTiVi Tasks

Import a video or an audio file

Videos need to be imported before they are used in the video editor tool. That is why import is necessary. For PiTiVi it can be done as follows:

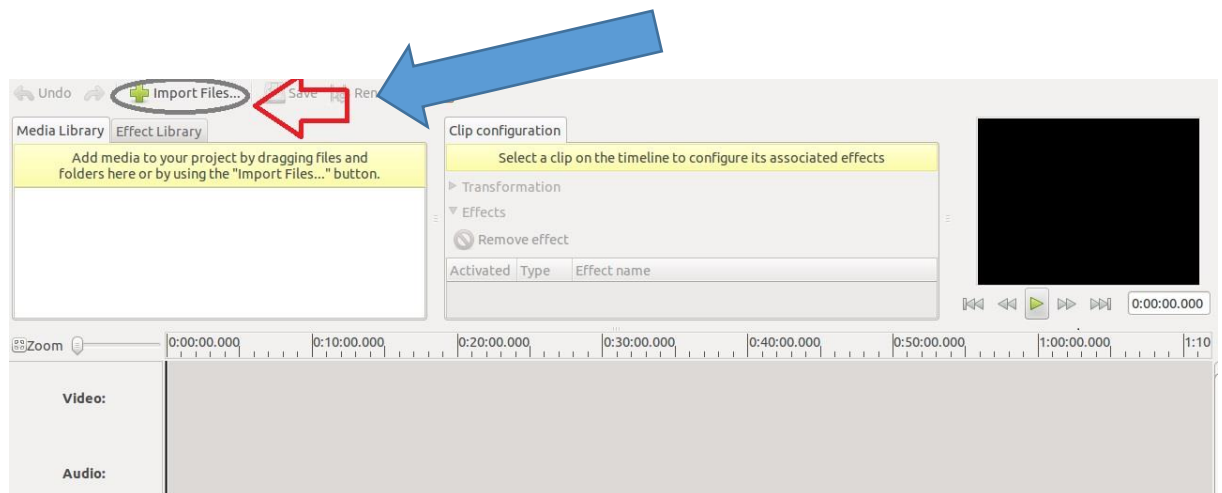**1) Press *Import Files+***

Note: A new window opens up.

Figure 13 Import files

2) From that window locate to the video or audio file of your own choice from your folder system.

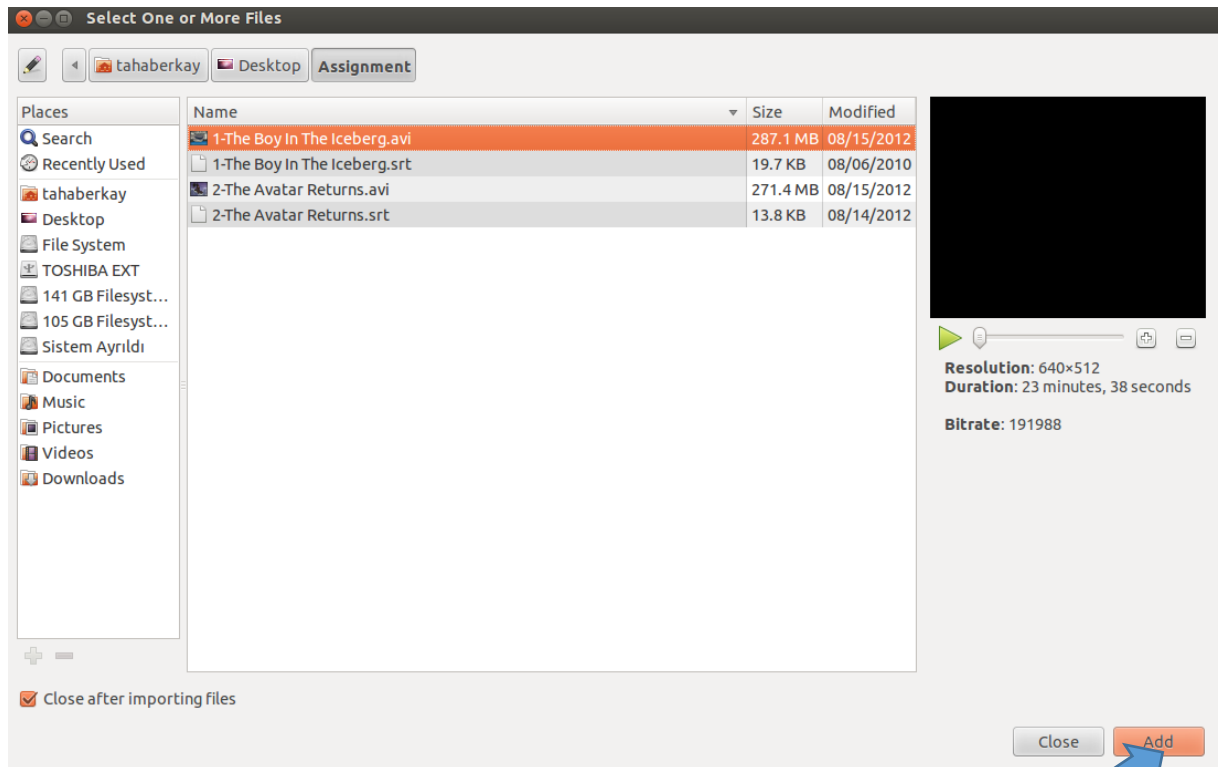*Note: More than one files can be selected.*

Figure 14 Search files in your directories

3) After selection press add.

Notes: The files will be transferred to Media Library.

4) From *Media Library* drag the file to the timeline.

Note: More than one file can be put on timeline.

The files can be dragged and dropped directly to the Media Library.

> ___Caution___*: To remove the clip, from the Media Library right click on the file. Select remove clip and the clip will be removed!*
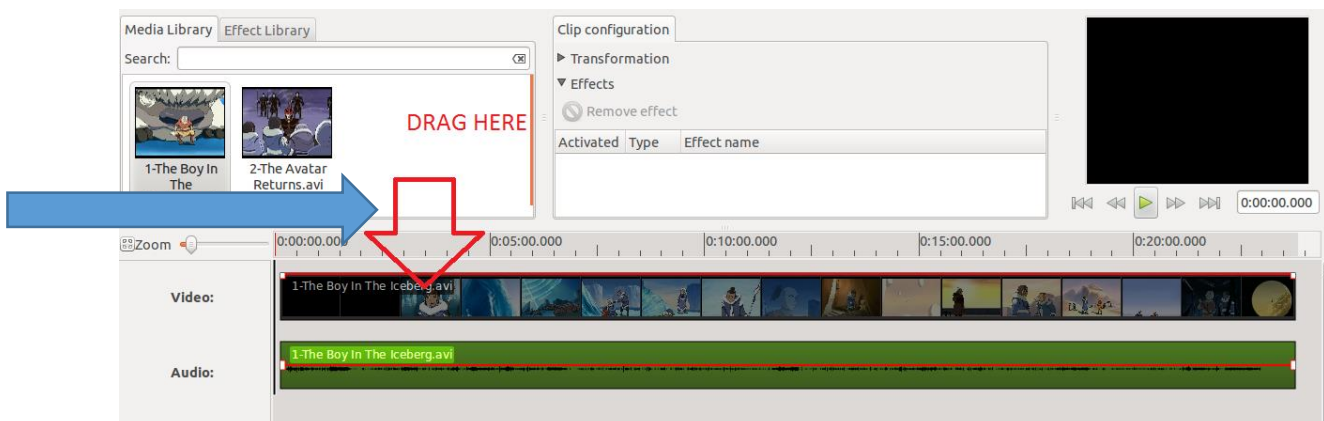

Figure 15 Imported into Media Library and dragged it on timeline

Do montage

Put many clips in sequential order.

After a video is present in the timeline montage skills can be demonstrated. Montage is a general term. For this manual, its meaning is derived from the French perspective of montage, which is cutting videos and placing them in successive order.

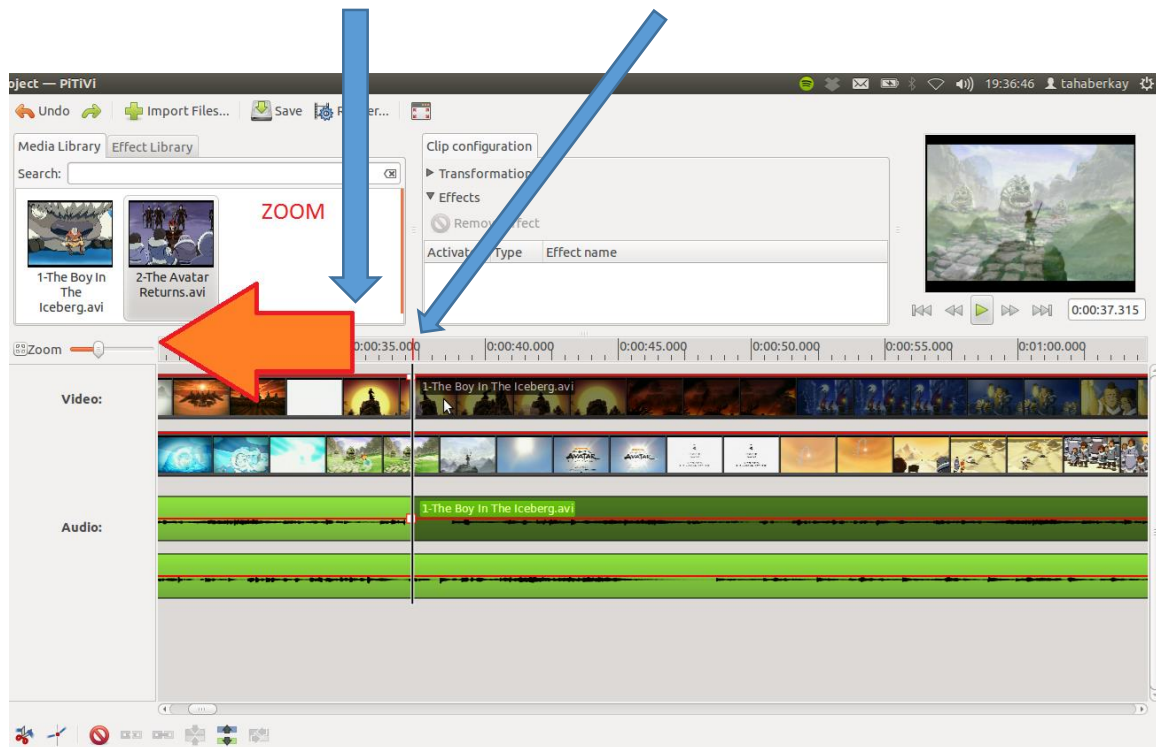*Note: Zooming in can be done from the zoom. Time cursor is a vertical line.*

Figure 16 Use zoom

1) Select the clip which is in the timeline.

2) Use that cursor to locate the place for cut operation.

Note: There is ruler in the timeline. On that ruler there is a time cursor displayed as a red line. The time cursor will display the instant of time at the video.

3) On the bottom menu bar, press the *split clip at play head position* button.

Note: The clip will be cut.

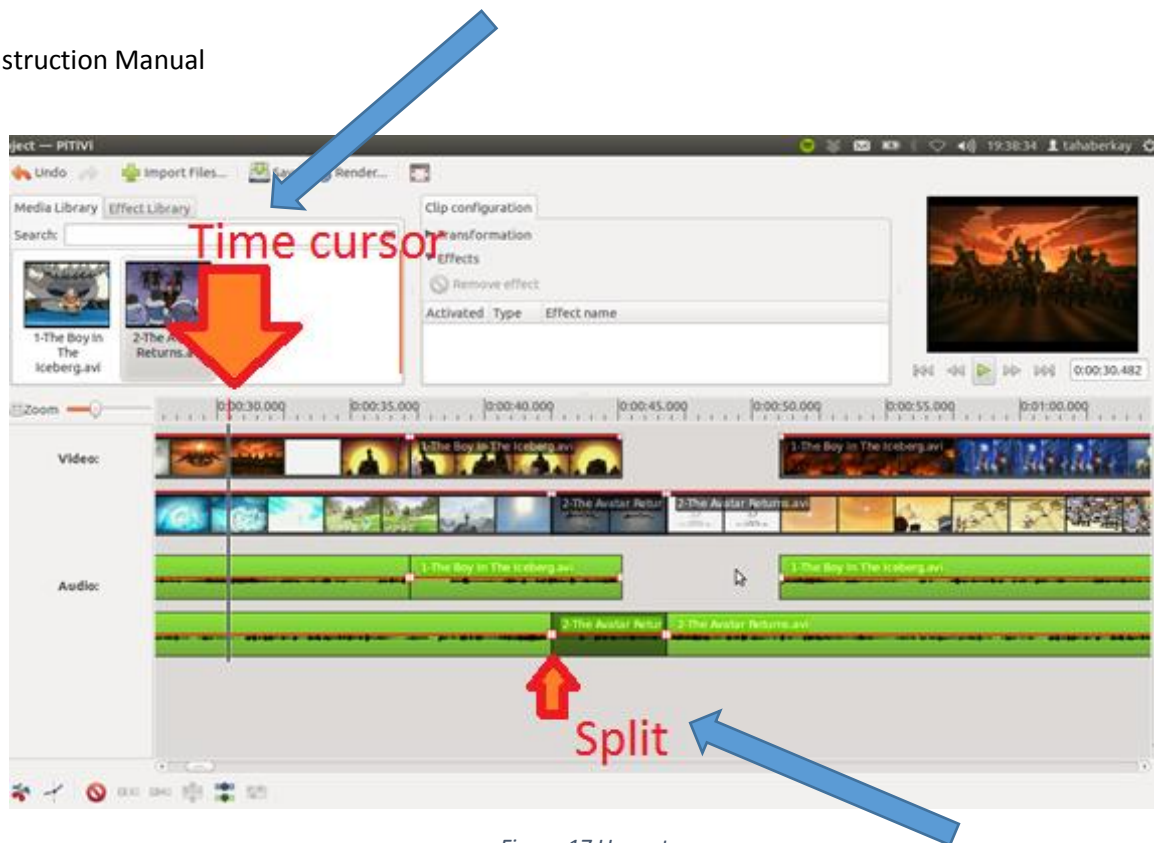**4) Perform these operations on multiple parts of the clip.**

Figure 17 Use cut

5) By using the mouse, select a clip and move the clip in the timeline to the upper video level

Note: If a video/audio overlaps another video/audio a new video/audio place will be created for the video. Thus, videos can be superimposed in this manner. The upper video/audio will be displayed in the preview

6) Take another cut clip, put it in place of the clip taken in step 5.

7) Take the clip from upper video level, and put it in the empty place created by the movement of the clip in step 6.

8) Sequentially order the clips this way as much as possible. (Figure 18)

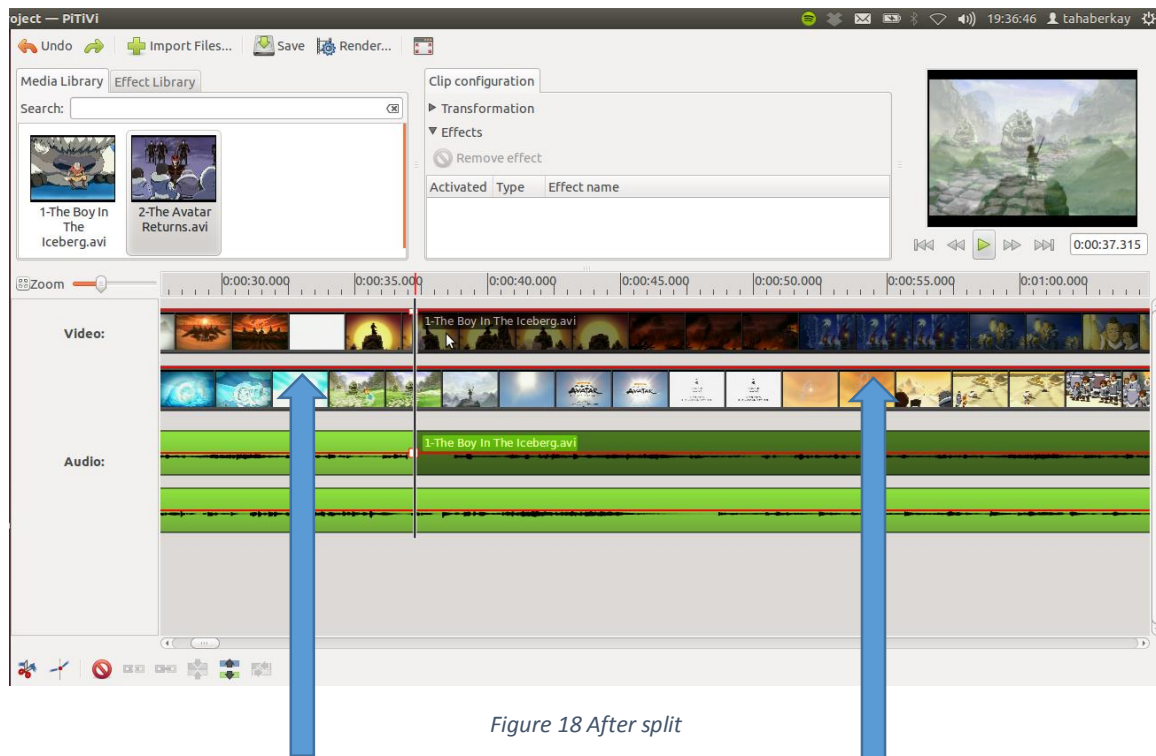*Note: This way many files can be grouped into one single structure.*

Figure 18 After split

Do video effects

When videos are present in the timeline, video effects can be used upon them. Video effects are very important to create effective and influential videos. One needs to pertain to the idea that to develop targeted advertisements, video effects must be mastered.
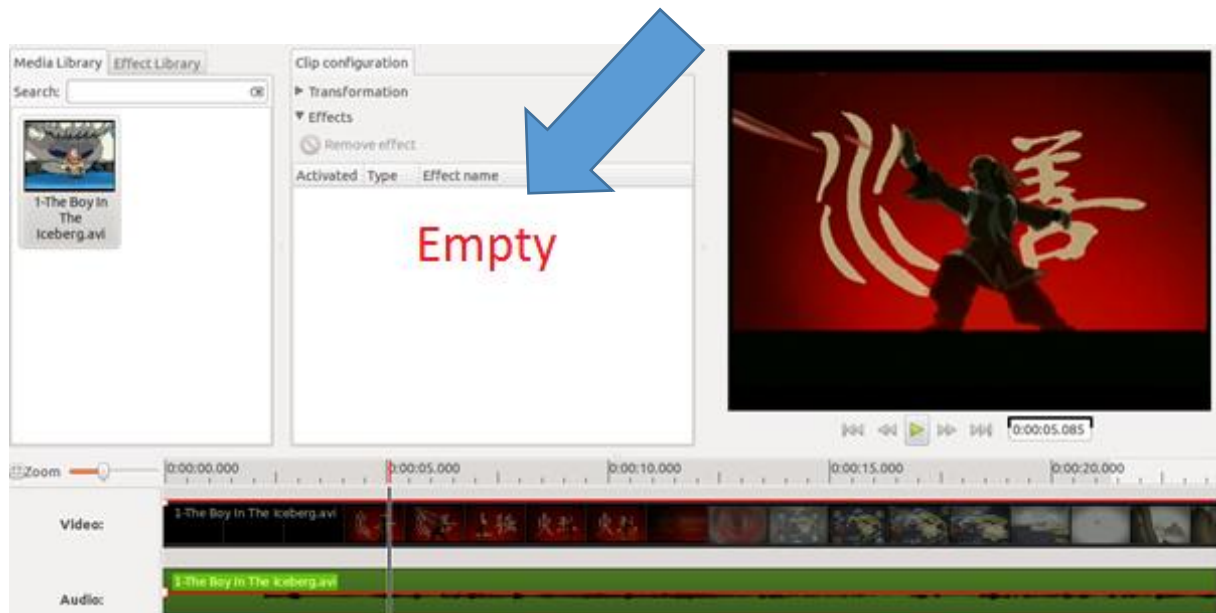

Figure 19 Before applying effects

1) Press the *Effect Library* button.

The effects are found in the *Effect Library*.

2) Select the effect you wish to use.

In PiTiVi, there is a lot of effects made available to the user. From Aging to Warp, the user is presented with a wide range of selection.

Note: To locate an effect very fast, category section or search bar can be used.

3) Drag the effect on to the Clip Configuration.

Note: There can be more than one effect assigned to the clip.

Caution: If an effect is mistakenly put on to the video, remove it.

4) The effect can be removed by pressing remove effect button.
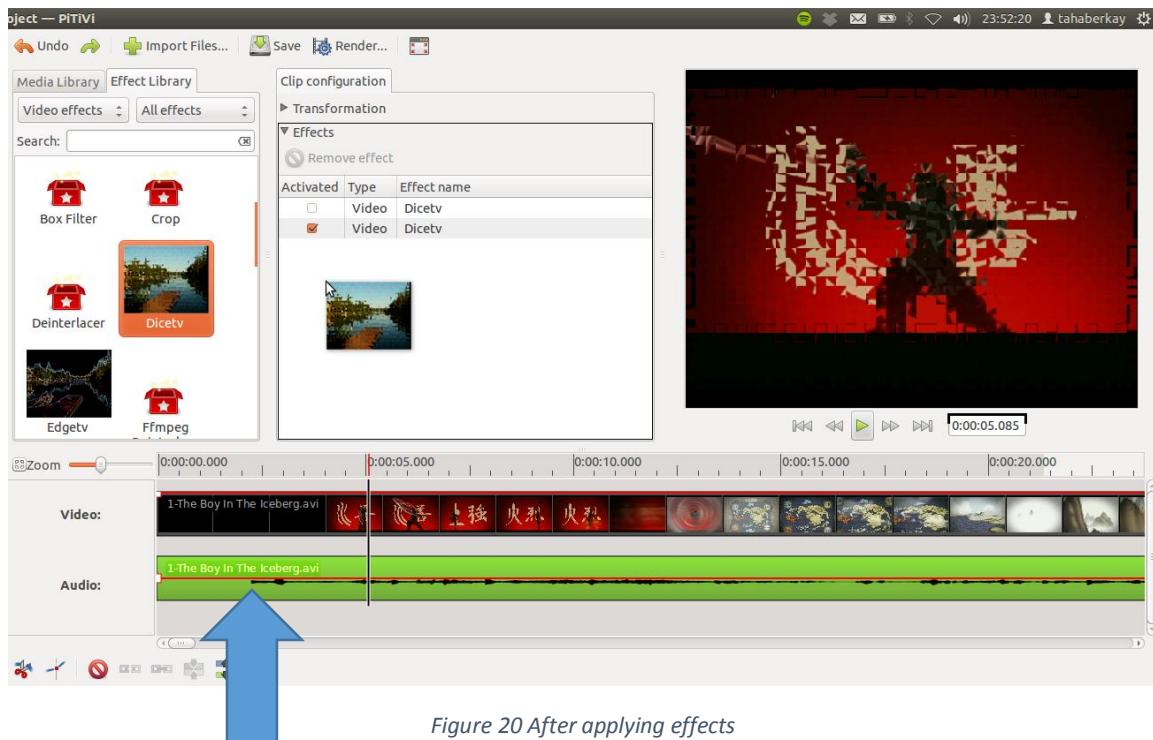

Figure 20 After applying effects

Red line

Do audio effects

Audio effects play an important role in video editing. When audio files are present in the timeline, one can use audio effects on them.

There are two types of audio effects. The first category is direct sound manipulation. The second category is audio effects from the *Effect Library*.

a) Direct sound manipulation: Volume can be controlled by using direct sound manipulation.

1) Select the audio file in the timeline.

2) Move the red line up for increasing volume.

Note: There is a red horizontal line. *Press the red line. There will be a red square box. By using this one can split sound in an audio file without splitting the file itself; thus audio sound can be compartmentalized for different parts.*

b) Audio effects from the *Effect Library*

1) Press the *Effect Library*.

2) From the *Effect Library* menu bar choose *Audio effects*.

3) Select an audio effect.

4) Drag the effect on to the clip configuration.

Export a video

When the user is done with video editing, the user needs to render the video and create an output file. The output file will be the result movie. To export the edited video, one needs to use export function. After all the editing export can be done.

1) Press the *render* button on the menu bar.

Note: Render window will pop up.

General Section

2) In the *Render Window* choose the folder you wish to export.

3) Change the *Container Format* to any file you wish.

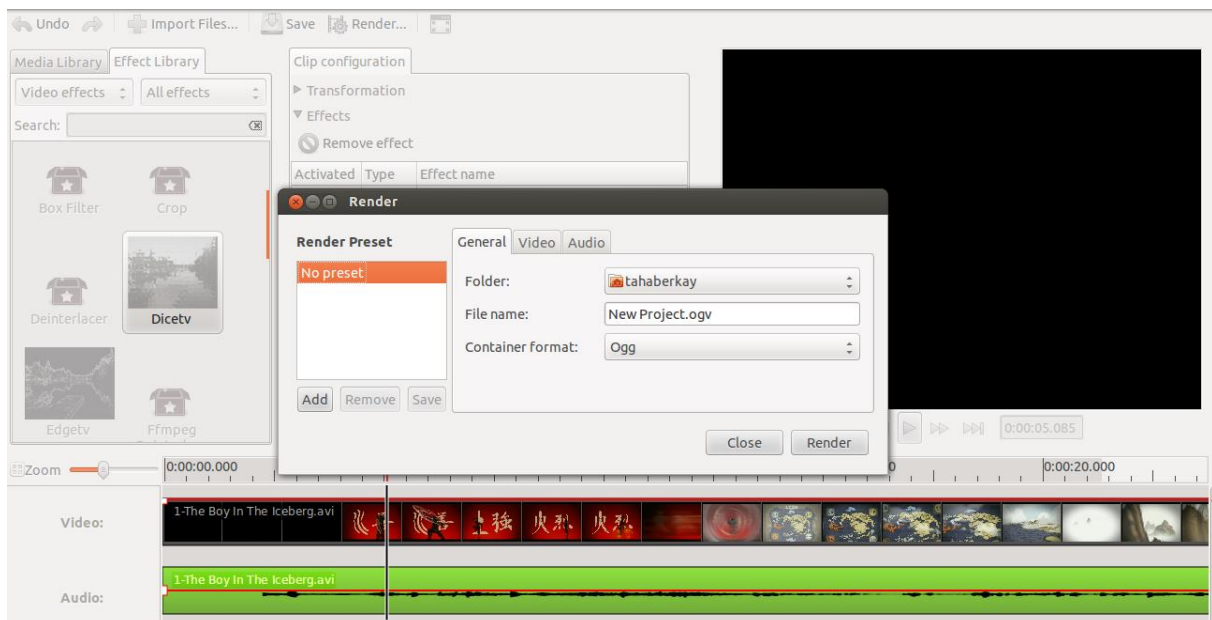*Note: There are many file formats made available.*

Figure 21 Render: General

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<u>Video Section</u>

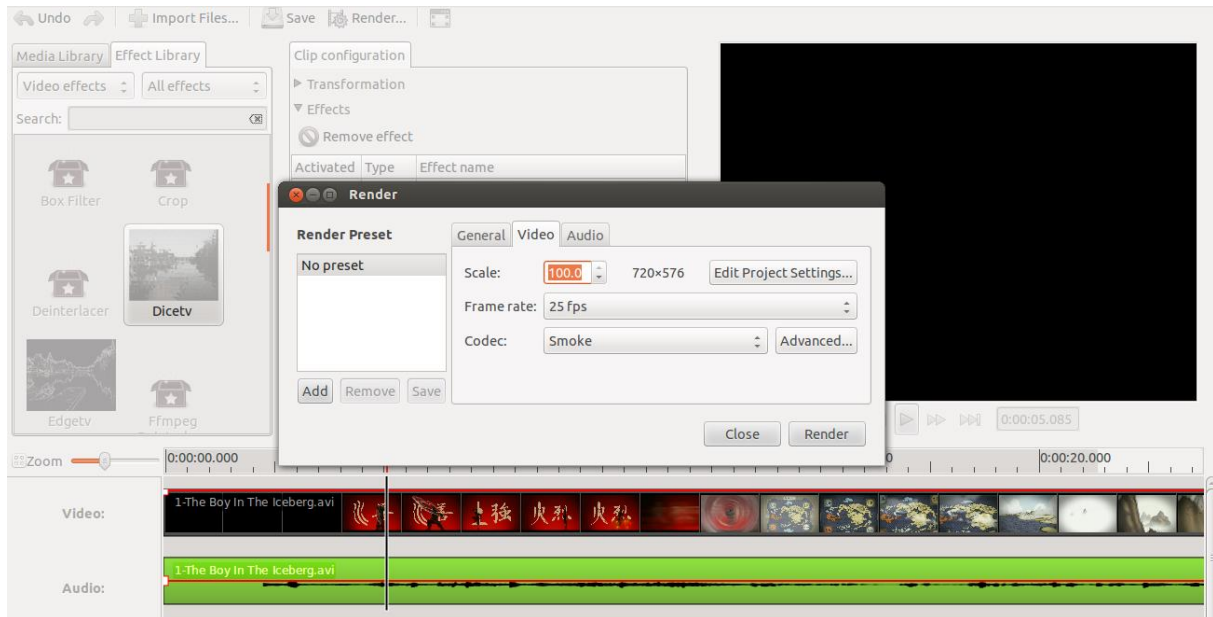**2) Modify the *scale, frame rate and codec* according to your requirements.**

Figure 22 Render: Video

<u>Audio Section</u>

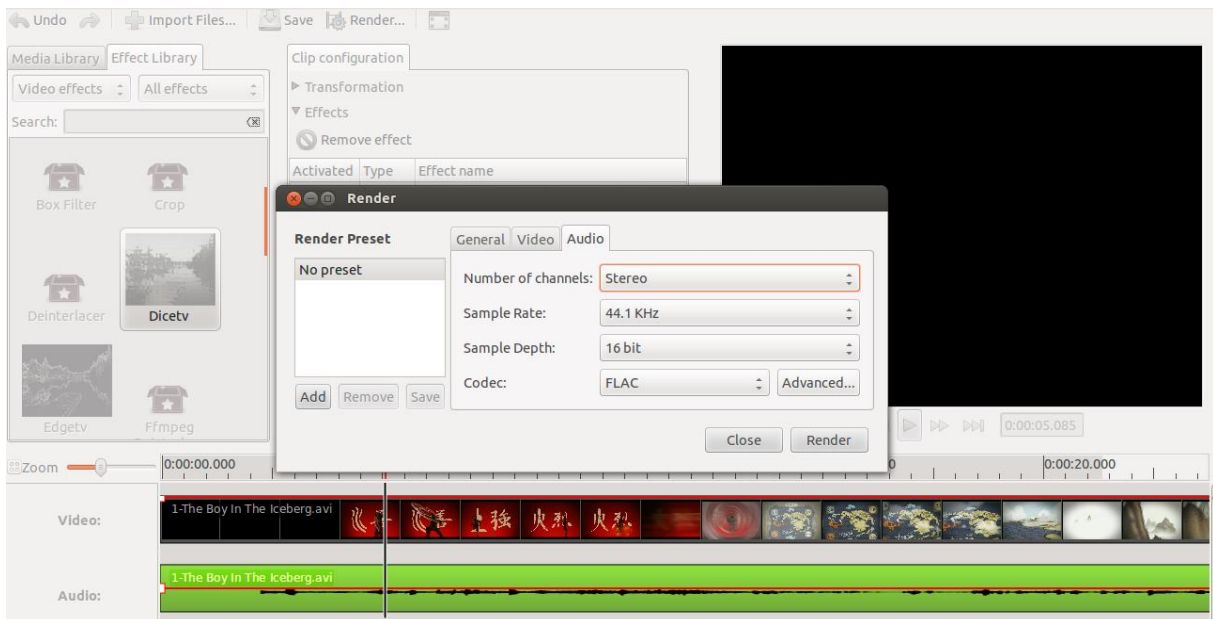**2) Modify n*umber of channels, sample rate, sample depth and codec* according to your requirements.**

Figure 23 Render: Audio

3) Press the render button