



# JOJAPS

eISSN 2504-8457



Journal Online Jaringan Pengajian Seni Bina (JOJAPS)

## Maimoon Palace Virtual Guide with Non Linear Editing Method

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### Abstract

Virtual guide is media of information purposely to visit some places in video form. Nowadays, virtual guide technology is acknowledged for guiding to tourist location in Indonesia and other countries. This system is usefull to provide convinience to visitors before making a visit to their destination directly. The method is used non-linear editing, making a record for video firstly towards the object of tourism. In this case, Istana Maimun is the object destination of tourist in medan city. Furthermore is video editing with giving some effects, they are intro, visual effect, video hologram and rendering. Then creating the sequence of one frame output or more with video editing software through displaying some timelines on monitor, whereas each times contains one or more tracks separated, layers, source sequences, including video, audio, graphic and the source of digital video effect. From this video editing gives thoroughly video in case of one placement or more of events to the track into frame output that is forming virtual guide. This matter is identifying that non-linear editing is better to be used in creating virtual guide system.

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*Key-word: Virtual Guide, Non Linear Editing, Maimoon Palace*

### 1. Introduction

Information technology development becomes an important role towards human's life, along with the rapid of development which is characterized by sophisticated of human creation in technology especially computer, now it is becoming easier and fully automated in almost all areas that were previously done manually by human power, due to computer capability that prompted many applications based on computer system. Virtual technology is information technology based on computer that is much used by one of the virtual guide technology today. Virtual guide is information technology which is engaged in the introduction of computer-based tourist sites in the form of videos that tells all the existing sections in the tourist sites of interest.

In conducting the preparation of this paper, the authors made research on tourist locations in Medan city is Istana Maimun. Making virtual guide on this istana Maimun will make it easier for potential tourist who knows well the entire history of detail and Maimun Palace before visited the site directly. Visitors are able to see the live picture of Istana Maimun is like, even by watching this video, the audience can be attracted to what is played in this video. Moreover with an interesting visual effect, solely to attract viewers and potential visitors. This is really needed because of this video, Istana Maimun can also be preserved, both in terms of sales (finance), and even in terms of preservation for the future. And the video is also able to be used as a medium to inspire young people who tend to underestimate the historical heritage, since the audience is presented with modern visual effects and so potentially to attract spectators. Virtual is an efficient system of a duplication and isolated from an original machine, the current virtual machine can simulate the hardware without the original hardware at all (Smith, 2005). Virtual guide is a simulation of a real object, which can be inserted into the photographs, video sequences and other multimedia elements for instance sound effects, music, narration, and text that is frequently used to describe a variety of media-based video and photography (Jan, 2009).

It is generally made virtual editing of a photo before being shown, usually using the software Adobe Photoshop and Corel Draw X7, as well as the use of recorded video will be edited using Adobe Premiere software. Furthermore, other support materials are on-scene scene additional menu is done by using software 3DsMax to add 3D effects on a guide displayed. So is the addition of audio sound effects using the software Adobe Audition and Adobe After Effects.

Adobe Premiere is a video editing program developed by Adobe. This program is already commonly used by house production, television and practitioners in their field. The advantage of learning to edit video by using Adobe Premiere is this program is actually easy to learn and you can reach the advanced level in short time even though it is still a beginner. Surely by practicing. Adobe Premier more devoted to compose images, video and audio, not for animation due to the animation we can use Adobe After Effects. Yet, there are some tricks in Adobe Premier that can display multimedia more interesting. Therefore adobe premiere can be combined by other multimedia such as 3D Studio Max, After Effects, Adobe Photoshop and other multimedia Utility. By mastering adobe premiere Pro you will be able to organize an event such as a wedding video, music video clips, films, video profile, showreel and others. It will probably be very complicated for the layman when opened adobe premiere firstly. but if they are keeping trained with tutorials systematic method of learning, then automatically you will understand tools and the function that exist in adobe premiere pro.

Adobe Premiere program is part of Adobe Creative Suite, a seri of graphic design, video editing, and web development applications made by Adobe Systems. Premiere Pro supports many video editing cards and plug-ins to accelerate the process, additional file format support, and video / audio effects. Premiere Pro CS4 is the first version that will be optimized for 64-bit operating system eventhough not natively 64-bit. Premiere Pro is the successor to redesign Adobe Premiere Premiere Pro 2003 Software used was version 2003 and Premiere refers to the previous release. Although the two versions of Premiere Pro are only supported by Windows, Premiere Pro CS3 is available for both Windows and Mac OS (only bases to IntelMacs are supported) making it one of the few cross-platform NLEs that are available. Premiere Pro is used by broadcasters such as the BBC and The Tonight Show. It has been used in feature films, such as Dust to Glory, Captain Abu Raed, and Superman Returns (for video captured process), and other places such as Madonna's Confessions Tour. The purpose of this study is to produce information media of Istana Maimoon as a historic building in the Medan City. This media information is presented by using a virtual guide to the non-linear editing methods. It is expected from this medium can provide convenience for travelers looking for locations that they need to visit before coming to Medan.

Traditional video editing involves copying material from the video source footage to an edited tape. A sophisticated editing recording equipment is required and can be relatively consuming time process, noted that it is necessary to configure the equipment so that the video material that will be transferred correctly. Furthermore, this type of editing causes image degradation. In order to optimize the expensive editing equipment on-line, off-line editing systems that are known in which video images compression are manipulated fastly, by accessing data images in a substantially mode randomly from magnetic device. Noted that disk storage device that does not need to raise through long linear video recording to perform this type of editing, the editing process is generally known as "non-linear editing". This type of system generates edit decision lists (EDLs), so that the editing process on-line consists of doing all the editing in response to editing list decision. However, the Editing list decision itself can be made in highly interactive environment, allowing many potential Editing to be considered before getting the final list. The advantage of non-linear editing has been appreciated and high-end systems are known, such as those sold by the receiver of the present invention, where the full bandwidth signal is manipulated in full definition, without compression. In high-end systems, it is possible to determine the hardware requirements to provide the function of level requirement.

In such away, the system tends to be designed to achieve a certain level of service and adjusted to the specific demands operator. However, since the strength of the processing systems has increased, along with the increased volume of data storage and access speed, it has become possible to provide highly sophisticated to on-line non-linear editing facilities. As a result, there is greater emphasis on providing functionality that is enhanced in the system of non-linear video editing. Another advantage of the non-linear editing is trimming process that allows editors to make in point and out point correction on each pieces and corporated image. Thus the accuracy of splited images will be in accordance with the wishes of the editor. Errors at in point can be corrected either reduced or increased, this is not be able to be done on linear editing machines moreover in cutting or shot that is corrected in before and after the shot. Special effects of both transition effects and effects in non linear video editing is much more varied, some non-linear editing allows the digital video effect getting even more from additional software or plug ins. Digital video effects to non-linear editing allows to color correction that lets the editor adjusting the wishes color.

In the non-linear editing material or rushes the result of shooting and editing is stored in the hard drive. So whenever they are wished an editor can retrieve the data anytime. Some editing software have a good data management, Avid Composer for example, he does not just store data based on the folder that we created but have a folder that is created by editing the system itself. It also has an automatic storage folder "attic" that hold in AutoSaved that we can set the time. We can retrieve files that are automatically created If a power failure occurs or the computer hangs. Until now, the use of cassette or tape as video data

storage is performed. The Generation of tapeless is not fully change this conventional way. Both linear and non linear editing when it becomes the final results, either the master's data views as well as backing up still using tape as a storage medium. Storing the data on tape or into the hard drive which is connecting to the server has advantages and disadvantages. A national television station suffered an "accident" recently in which the server was down, consequently the data which is stored cannot be accessed. By reason lacking of the conventional back up in the form of tapes then for a few days the station was forced to serve as a re-run programs or reruns. That is computerized technology, the conventional methods of storage are needed primarily as a back up to overcome the undesirable things like the above events that are not directly associated with the system linear or non-linear editing.

Not necessarily non-linear editing was better than linear editing. Both types of editing have advantages and disadvantages. In linear editing, image editing is done in a linear or sequence. It could not do the editing to part C if part A and B have not been performed yet. Excessing on linear editing, image editing processing will be faster because there are steps that can be passed in a non-linear editing, are capturing or moving the data from tape / cassette or data in memory into the computer.

## 2. Methodology

This research is about creating a Virtual Guide purposely to guide and encourage the audience to pay more attention to local historical heritage that are already dormant. For making this video, the researcher use a variety of editing support software such as Adobe Premiere Pro CC 2014, Adobe After Effects CC 2014, Adobe Auditions CC 2014 and the author also provides some touches of visual effects such as holograph effect, slideshow, holograph 3D in order to make the video more interesting and can be an inspiration to the audience.

The research process and production analysis done by several stages, including: the process of pre-production, production and post-production process. In the pre-production process of making this video there are some necessary ingredients which are then able to support the editing process, including analyzing a script, analyzing a script done is made simultaneously with the playwright in order to adjust the material editing. Then, accomplish the data to be used in the editing step like, background, soundtrack, wallpapers and so on. Software used is Adobe Premiere Pro and Adobe After Effects CC.

For the production process, the steps being taken to facilitate the editing is to fill in the techniques of shooting, adjust video format settings on the camera with the computer and has responsible for all performance of the crews. In the post-production stage, the steps is being taken include:

### a. Selecting Pictures

After receiving the results of the shooting, the authors first preview to choose the image that will be taken to facilitate the search for shots that will be used.

### b. cut Images

In this process the author separates the shot-shot that is not good.

### c. Preparation of Image

In this process, the authors do the preparation, organizing and combining a number of shots in a film in sequence according to the scenario.

### d. giving Effect

At this stage, the authors provide the necessary effects that smoothing the shot.

### e. Entering Credit Title

At this stage the authors include the Title and Title Credit also gives illustrations of music and audio effects.

### f. rendering

After the above process is completed, then entered the step of the rendering is the process of merging all the elements so as to produce the final result is an interesting and realistic that is neatly arranged in a scene and create the final result in accordance with the written script before.

### 3. Result

In the process of making the video at the step of Post Production is in field of editing, or a position as Editor. As performed at the editing steps. After receiving the results of the shooting, the authors previously do to choose the image that will be taken to facilitate the search for shots that will be used (Figure 1).

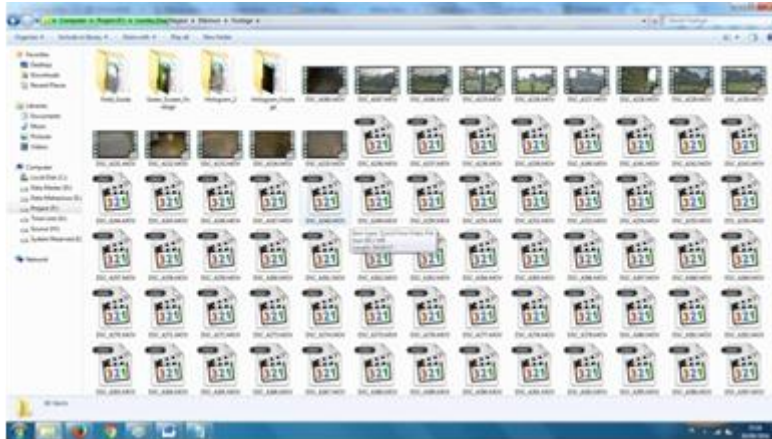


Figure 1 Process for Images choosing

In the process of editing, are made cutting-shot were not shot well to fit the scenario or script as shown in figure 2. In processing of images arrangement, done organizing and merging a number of shots in a video as in the scenario (Figure 3).

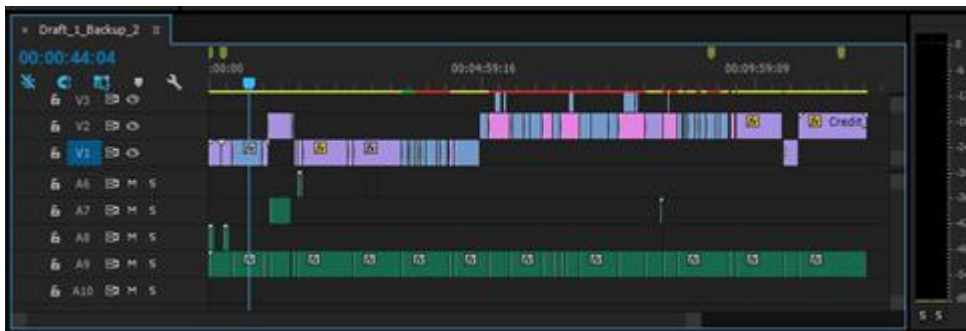


Figure 2 Process for image cutting

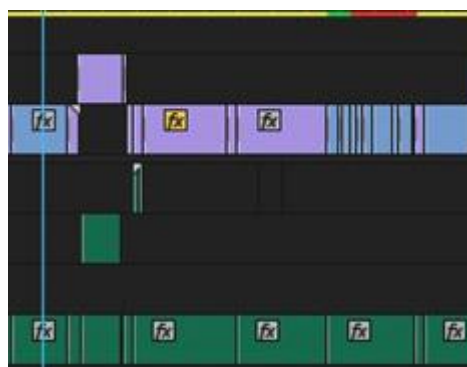


Figure 3 Process for managing the image

In the process of adding effects, the addition of the effects that required so much smoothing shot-shot rough even add holographic effects are deliberately made to attract an audience, also beautify visual film. The author uses this effect to provide an illustration of the history of the palace Maimun, so that the audience does not get bored. In addition, the illustration also added a slide show to further confirm and makes the history of Maimun more interesting. Attached of title and transition to do is more easier for the audience to recognize the fundamental discussion that will be discussed (Figure 6). In the rendering phase, all of the videos that have been cut and given effect will be rendered and united into one format of whole video, the format is the mp4 format, with h264 codec.



Figure 4 Effect of Hologram

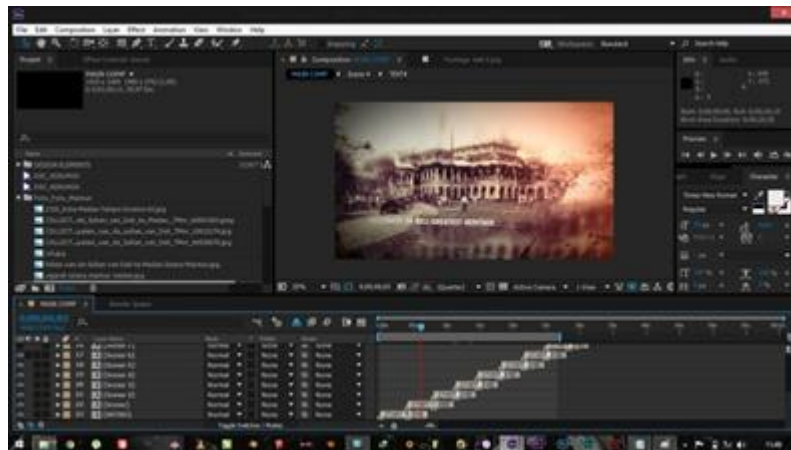
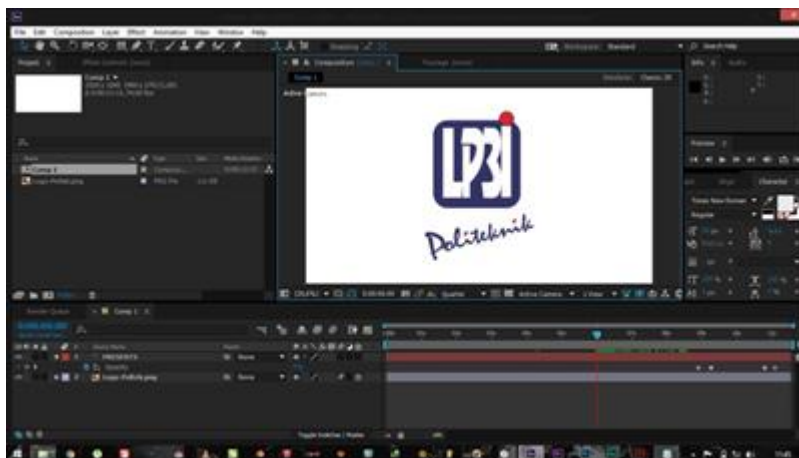


Figure 5 Slideshow illustration



.Figure 6 attached of title



Figure 7 attached of main transition discussion

## Conclusion

Based on the discussion that has been described, the author give the conclusion from making the video " Istana Maimoon Virtual Guide" as follows; In the editing process, the author provides some touches 3D holographic effect, illustration slideshow, discussion transitions and other effects to make it looks more attractive and make the audience does not get bored

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