

УДК 811.111:004.92

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## **The basics of video editing**

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December 28, 1895 ... Paris, France Boulevard des Capucines, the hall "Grand Café". This day and this place have left behind an indelible trace in the history of all mankind ... Value of the event which has taken place this day is clear to everyone without exception to the person today. On December 25, 1895 in the Grandee of Cafe hall brothers Lumiere have forever entered themselves of history as creators of cinema ...

Since that moment has passed more century. During all twentieth century cinema (to be exact, his components - motion picture art and the film industry) actively developed. The new art form has passed an era "great mute", was painted in all color scale (being initially black-and-white), from short 15-minute "miracle" has turned into hours-long ... Means of shooting (capture of the image) were improved, also ways of data storage were improved ...

In 1979, the screens out the movie "Alien", which was partly created using a computer of computers. The stunts and special effects in this movie were performed by using the most advanced at the time of the software. The film had high quality graphics, crisp images and an impressive amount of special effects, and it was recorded in analog mode, i.e. on film! (Not in any doubt about the fact that the film has received "Oscar" For best visual effects") For the "Stranger" was followed by "Star wars" and other films [1].

Today it is already impossible to do without computer in the course of creation of the movie. There were new

technologies by means of which tricks are created in the rooms (the so-called technology "motion capture") which are specially equipped for this purpose. Special effects (behind a small exception) became a path of specially trained computer artists-programmers now. On computers it became easy to work with three-dimensional graphics and animation. The great cause of brothers Lumiere hasn't died, and, on the contrary, has risen on inaccessible height and became not only art of actors, but also art, top of the embodiment of achievements of computer facilities.

Installation of any movie or transmission starts with the organization of the project. As part of a specific project editor creates the most comfortable for the job, and in accordance with their habits configuration of your seat. Only then did he begin to digitize source material. Calling the process of recording material on computer disks "digitization" began in the days of analog video, but does not occur when working with digital video recorder for digital signal conversion inputs, but the replacement of the term yet [2].

Digitization can be performed without a preview and selection of material, the so-called "digitization of summer", or according to a predetermined sheet digitizing. Digitization of summer can be done with any tape recorder, but to record on a sheet of digitized material on the disk can only be managed with a VCR and a time code. Work on the digitizing sheet can significantly speed up this is quite a tedious process.

The next step after digitization - this installation, for which in the nonlinear systems invented an extremely handy tool - a timeline. Task Timeline - quickly and clearly reflect all the changes in the film structure, the structure of the response to changes made by our assembly operations. The director can see the result obtained immediately after any installation steps. He can make any number of mounting options, and then select the best.

When the primary Assembly all necessary parts of the image and sound is consistently moved from the window to the timeline. All further actions on changing the previously collected sequences occur on the timeline. Ideally, the timeline should be no direct access to any part of the picture or sound is stored in either window. This is due to the fact that there is a simple rule: the less you have to access the source content in the window, the faster the work. The timeline is the placement of special effects, titles and audio mixing. In General, the more Assembly operations can be performed directly on the timeline, the faster will be mounted film [3].

It happens that on the same system it is sometimes difficult to do all the work in its entirety. Modern movie or TV show, especially music videos or commercials, require more complex processing of video or audio. Therefore, as a rule, from the beginning of the work is distributed among several stations, adapted for certain tasks. In the simplest case, a rough cut of the film is carried out with a reduced image quality, then directed by the system established in the draft EDL quickly assembles a "master" in any linear or nonlinear finishing circuit. Often it is easier and cheaper than when trying to make all on a single system.

#### References:

1. Mode of access: [ru.wikipedia.org/wiki/Чужой\\_](http://ru.wikipedia.org/wiki/Чужой_). – Date of access: 27.02.2016
2. Mode of access: <http://k-free.ru/?p=4>. – Date of access: 29.02.2016
3. Mode of access: <http://rus.625net.ru/625/1999/06/r1.htm>. – Date of access: 25. 02.2016