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APPLICATION OF PEDAGOGICAL SOFTWARE IN THE CREATION OF ELECTRONIC DIDACTIC MATERIALS

Kurbonova Mahtuna
TSPU after named Nizami, Faculty of Vocational Education,
4th year student of Computer Graphics and Design

Abstract: This article discusses the history of computer graphics, the possibilities of teaching software Articulate Storyline Adobe Captivate 5, CourseLab, iSpring, AutoPlay Media Studio, the creation of various electronic didactic materials using pedagogical software.

Keywords: Computer graphics, geometric objects, model, information, technology, cross-sections, computer graphics, vector graphics, raster graphics, three-dimensional.

Computer graphics can be considered as a science of mathematical models of geometric objects, shapes and principles, as well as methods of their representation. The interest in computer images is explained by the fact that they store a large amount of data: the ability to display images clearly. no special knowledge in the field of information technology is required to analyze them. Computer graphics emerged as an independent line in the 1960s, and a special application package was developed. At that time, the principles of drawing using cuts, erasing invisible lines, reflecting complex surfaces, shading, and taking into account illumination were developed. The first work in this direction was aimed at developing vector graphics, that is, drawing lines through intersections. Since the 1970s, much of the theoretical and practical work has focused on the study of spatial shapes and objects. This line is called three-dimensional graphics (3D). Modeling three-dimensional images requires taking into account the three-dimensional nature of space and objects, the location of observer and light sources. The emergence of issues related to the reflection of complex surfaces, the modeling of reliefs and their illumination has further increased the need for three-dimensional graphics. In the 90's, the field of computer graphics has expanded significantly, which means that it has the potential to be widely used. As a result, computer graphics has become a tool for professionals not involved in programming and computer technology. One of the new directions of computer graphics is devoted to the development of methods and principles of shaping real images. According to these principles, it should be possible to directly observe the images or record them using optical devices. The need for such images has arisen in design, architecture, advertising and other fields. The expansion of the functionality of computers led to the development of computer graphics and the creation of systems that provide image animation.

Today, a variety of teaching software tools are widely used in the education systems of the most developed countries of the world. Teaching visual aids are created using proprietary software. The use of such programs in the educational process leads to high results, because the student at the same time hears, sees and performs. Below are the capabilities of the copyrighted software tools outlined in the previous plan.

Articulate Storyline software

Articulate Storyline is one of the most popular courses for creating courses, it is flexible, easy to use and designed to create courses for different purposes

Articulate Storyline is a three-utility package (Presenter, Quizmaker, Engage) that allows you to view training courses, presentations, tests and other forms of content on the iPad and create them in Flash and HTML5 formats that can be integrated into distance learning systems. The program offers almost limitless possibilities for implementing complex interactive scenarios. You no longer have to know how to program or use Flash to create a complex interactive script for a course - Storyline offers all the tools to do so.

The feature of this program is easy to master, as well as the bright visual style of the projects being created: the videos developed in Articulate products look more modern and dynamic than other e-learning editors.

Adobe Captivate 5 software

Adobe Captivate (formerly known as RoboDemo) is a Mac OS X that can be used to demonstrate Microsoft Windows and software, record video lessons, create application simulations, create training presentations, and

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create various tests in .swf format. Software for creating and editing e-courses used in e-learning for versions 5. It is possible to convert generated .swf in Adobe Captivate to .avi for video hosting sites. To create program simulations, you can left-click and right-click on the Captivate.

You can also use Adobe Captivate to create screenshots, podcasts, and convert Microsoft PowerPoint presentations to Adobe Flash.

Captivate allows you to create and edit interactive programs, simulations, help desks, screenshots, games, and tutorials. Captivated screenshots take up less space than screen recordings.

CourseLab software CourseLab is a powerful and easy-to-use software designed for the preparation of interactive learning materials (e-learning resources) for use on the Internet, distance learning systems, CDs or any other storage device. engine.

The main features of CourseLab are:

• Create and edit educational materials that can be viewed and retrieved in the WYSIWYG system.

• Does not require the developer to know HTML or other programming languages.

• An objective approach allows you to create educational materials of any difficulty.

• Using scripts makes it easier to create complex multi-object relationships.

• Has an automatic test creation mechanism.

• The Open Lens interface allows you to easily expand the Object and Templates library and user-created libraries.

• Has an object animation mechanism.

• Allows you to upload any type of rich media to your training courses - Macromedia®Flash, Shockwave, Java and video files of any format.

Easy mechanisms for placing and synchronizing music sequences.

• Ability to embed hyperpresentations in Microsoft PowerPoint format

• Has a screen capture mechanism that allows you to create simulations of various software.

• Has an easy language to interpret actions.

• Provides JavaScript direct access to file properties for skilled users.

• Java is not required to view e-learning courses.

iSpring software Microsoft PowerPoint software is often used in preparation for presentations. It has many features that allow it to be well-received by viewers.

Today, there are programs that allow you to convert a presentation to other formats.

Richmedia offers a program that allows you to create a flash clip from a prepared presentation.

The product is called iSpring and has options such as iSpring Free, iSpring PRO and iSpring Presenter. According to independent experts, today this product is one of the best PowerPoint converters in Flash in terms of speed, conversion quality and number of options. The difference between iSpring PRO and iSpring Presenter is that the latter not only allows you to create flash presentations, but also to create interactive links in the preparation of videos that can be used in the educational process, in particular, including various forms of queries. It also provides access.

AutoPlay Media Studio software When AutoPlay Media Studio is launched, a dialog box appears with several commands related to the project (Figure 5):

In this dialog, the following four suggestions are made:

1) Create a new project;

2) Open an existing project;

3) Restore last open project; 4) Exit AutoPlay Media Studio.

If the Russian version of AutoPlay Media Studio is installed, then the offer is in Russian, if the English version is installed, then the offer is in English.

AutoPlay also provides a set of ready-made codes for each command button function and corresponding scripts. It is recommended to work with the English version of the program to make it easier to use ready-made codes.

So, according to the above proposal, if we select the item "Creat a new project", then the following dialog box will appear, which will suggest several new project templates

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