



MULTIMEDIA PROGRAMS, THEIR TYPES AND CAPABILITIES, USED IN THE CREATION OF EDUCATIONAL INTEGRATIVE SOFTWARE TOOLS

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ABSTRACT

There are many types of software tools designed to create educational programs and video lessons, respectively, and today SnagIt and CamtasiaStudio7 software are widely used. These software are very useful in various topics, especially information technology related topics.

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Electronic educational resources consist of systematized materials of scientific qualification knowledge, which serve to actively increase the knowledge of students.

There are many types of educational software, and we will get acquainted with the capabilities of a few of them.

Snagit software is one of the most compact, fast-installing, free-to-use and small software that does not require additional serial numbers. Software has a special feature that can be accessed at any time by attaching it to functional buttons. When the program is launched, it will look like this:

Learn how to edit images with Snagit Editor's powerful tools and effects.

Use Snagit Editor to preview, edit, and share your captures.

- Click the **Open Editor** button in the Capture window.

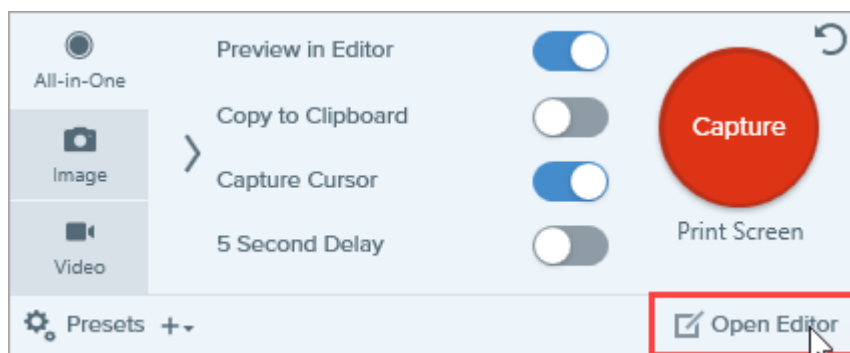


Figure 1. Editing window.

Snagit Editor Overview

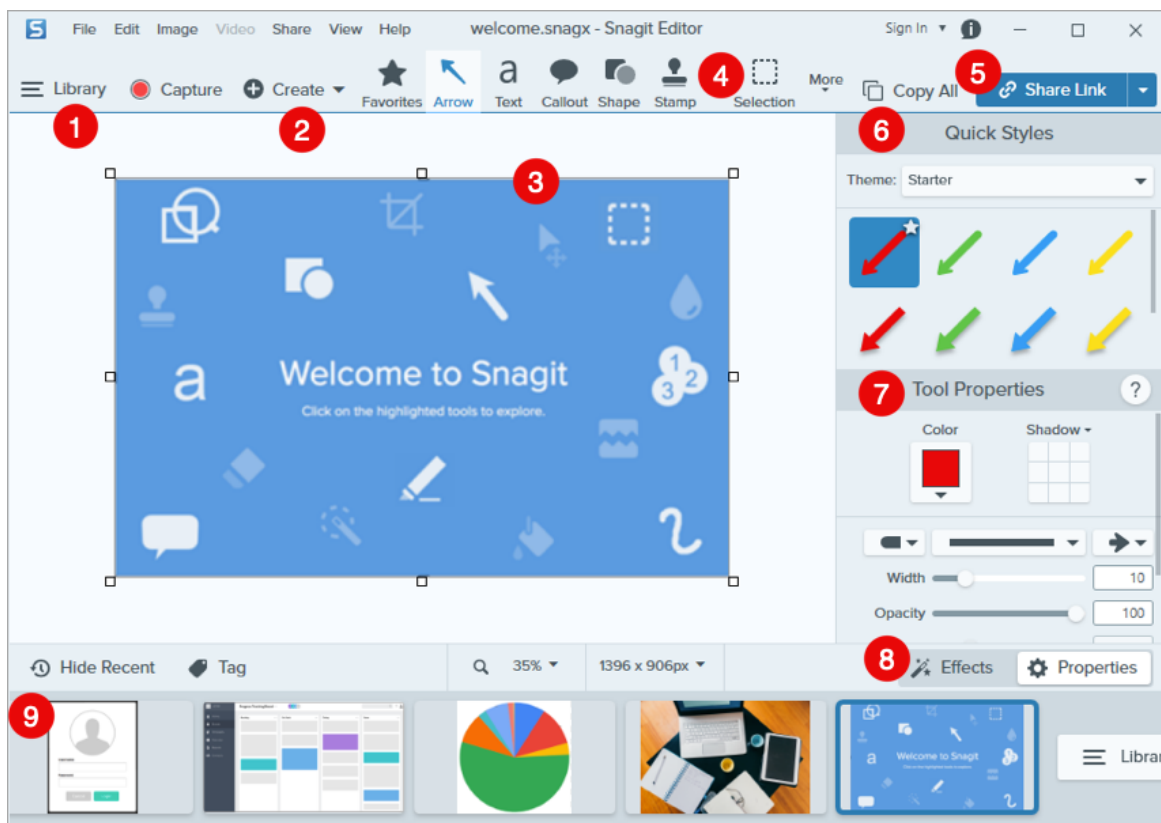


Figure 2. The main window of Snagit Editor

<p>1</p> <p>Library</p>	<p>The Snagit Library stores your capture history, including images, video recordings, and animated GIFs created with Snagit. Find captures by date, source, tags, and more.</p>
<p>2</p> <p>Create</p>	<p>Image from Template: Quickly create easy-to-follow visual guides for your team or customers.</p> <p>Video from Images: Narrate and mark up a set of images to show a process or share information.</p>
<p>3</p> <p>Canvas</p>	<p>The canvas is the workspace to preview and edit captures. Tips for working on the canvas:</p> <ul style="list-style-type: none"> • Drag one of the handles on the edge of an image to create more working space on the canvas. • Save images with a transparent background. • Enable or disable canvas snapping to align objects and text boxes. Select Image > Canvas Snapping.
<p>4</p> <p>Toolbar</p>	<p>Click to select a tool to annotate, edit, and enhance image captures. Click More to access additional tools.</p>
<p>5</p> <p>Share</p>	<p>Click Copy All to copy and paste the selected image or video into another application.</p> <p>Click Share Link to upload a video or image to Screencast and copy a shareable link to your clipboard.</p> <p>Click the Share dropdown to share to a specific app or save to your computer or cloud location.</p>
<p>6</p> <p>Quick Styles</p>	<p>Apply or save custom-made styles.</p> <p>To hide or restore the Quick Styles and Properties panels, select View > Side Bar (Windows) or Sidebar (Mac).</p>
<p>7</p> <p>Properties</p>	<p>Adjust properties such as color, font size, or shape to customize the selected tool.</p>
<p>8</p> <p>Effects</p>	<p>Click Effects to view available image effects, such as image border, torn edge, information about the capture, or color adjustment.</p>
<p>9</p> <p>Recent Captures Tray</p>	<p>The tray shows the recent image captures, video captures, and other files opened or edited in Snagit Editor. The thumbnail selected in the tray appears on the canvas in Snagit Editor.</p> <p>Click Hide Recent or Show Recent (Windows) or Recent (Mac) to hide or show the recent captures tray.</p>

The program can also be seen from the window, which has options for taking pictures, specifying text, and recording videos. It is possible to change their parameters only by selecting these modes.

There are also options for taking pictures and videos by selecting an arbitrary place on the computer window.

As we know, the trainer is the best tool used to educate the users with the help of electronic manuals. We use CamStudio to create a tutorial on how to create standard primitives in 3D Max. For this, we install the program on the computer. After installing the program, the CamStudio label will appear on the screen. Using this shortcut, we will start the program and the following screen will appear.

Camtasia is a software suite, created and published by TechSmith, for creating and recording video tutorials and presentations via screencast (screen recording), or via a direct recording plug-in to Microsoft PowerPoint. Other multimedia recordings (microphone, webcam and system audio) may be recorded at the same time or added separately (like background music and narration/voice tracks). Camtasia is available in English, French, German, Japanese, Portuguese, Spanish and Chinese versions.

The features are structured around the three main steps of the program workflow: recording, editing and export/sharing.

In Camtasia Recorder, users can start and stop recording with shortcuts at any time, at which point the recording is halted, and Camtasia Recorder can render the input that has been captured into the TREC format. The TREC file can be saved to disk or directly imported into the Camtasia component for editing. Camtasia Recorder allows audio (and webcam) recording while screen recording is in progress, so the presenter can capture live narration during a tutorial or presentation. Camtasia also supports dubbing in other audio tracks or voiceover during post-capture editing. Windows users may also install an add-in for Microsoft PowerPoint that will allow them to initiate recording of a presentation from within PowerPoint itself.

In Camtasia (also known as the Editor), the Media Bin is where media (screen recordings, voice-overs, etc.) for the current project are stored. The Library stores reusable media across multiple projects. On the Timeline, overlays of various types like annotations may be added, including user-defined settings, such as when and how to display the cursor and pan-and-zoom effects such as the Ken Burns effect. In order to provide localized versions of the produced videos, subtitles can be added with the captioning feature.

The Editor allows import of various types of video, audio and image files including MP4, AVI, MP3, WAV, PNG, JPEG, and other formats into the Camtasia proprietary TREC format, which is readable and editable by Camtasia. The TREC file format (using TSC2 Codec) is a single container for various multimedia objects including video clips, images, screen captures and audio/video effects. On computers where Camtasia is not installed, you can download the TSC2 Codec for free to play TREC files.

The produced video can be exported as a local file: MP4, animated GIF, AVI (Windows version only), MOV (Mac version only), or uploaded directly to a media or file-sharing platform (YouTube, Google Drive, etc.).

By default, Camtasia projects are stored as standalone projects in .tscproj format (cross-platform file format).

Creating a multimedia guide based on the Camtasia Studio program is very convenient for pedagogues working in the educational system and does not require special training. There is also a special video course for Camtasia Studio learners.

The Camtasia Studio program is used to record and save the processes taking place on the screen. The program consists of four supporting parts:

Camtasia MenuMaker, Camtasia Player, Camtasia Theater and Camtasia Recorder. The main part of the program is Camtasia Recorder. All lessons can be created using this program.

At the bottom of the Camtasia Studio program window, there is a working table known as the timeline, through which you can perform various actions on audio and audio-visual guide files. These include linking files together, trimming unnecessary parts. In the center of the main window is the "Clipboard" section, which shows the list of files that the program can work with

These files can be viewed in the audiovisual guide player on the right. This little Camtasia Player program does just one thing — display AVI files.

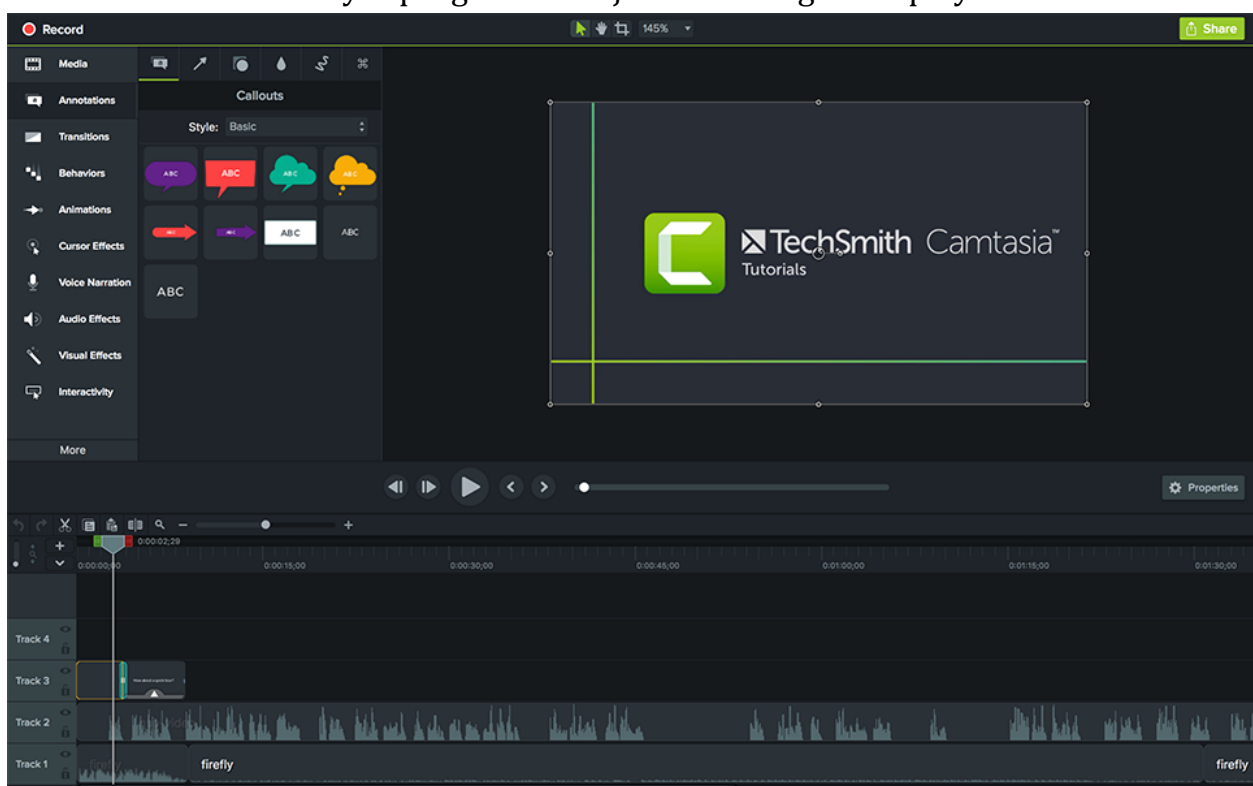


Figure 3. The main window of Camtasia Studio

The Camtasia Studio program is distinguished by its interface, a large number of formats, the addition of various symbols and annotations to audio-visual manual files, the

creation of menus for lessons, and it is also possible to create audio files using this program. It is also possible to highlight the desired part of the screen during the lesson. Due to these advantages, Camtasia Studio was chosen as a program for recording audio-visual manual lessons and Macromedia Flash programs for placing recorded audio-visual manual files in one interface.

In addition, there are Wink software, Jing software, Webineria software, and many other programs that can be used effectively in creating a multimedia guide.

Summary.

Above, the analysis of the programs that help in the creation of integrative software tools for the teacher made it possible to draw the following conclusions:

☒ Camtasia Studio among the programs that we have reviewed today is convenient for creating software tools designed to teach users how to use the collective electronic catalog.

☒ First, the program interface is in English and Russian.

☒ Because the interface of Jing, Wink, Webineria programs is in English, it will be difficult to master them.

☒ Second, it outputs AVI, SWF, FLV, MOV, WMV, RM, GIF and CAMV files.

☒ Can edit third-party video recordings.

☒ It is also possible to place audio-visual guide files recorded in Camtasia Studio in one interface.

The ability to edit video files recorded in Camtasia Studio is very convenient, but the ability to edit video files in Jing, Wink, Webineria is limited.

Literature

1. Muydinovich, R. I. (2021). Problems and solutions of teaching in credit-module system in higher education institutions. *The American Journal of Social Science and Education Innovations*, 3(04), 721-727.

2. Muydinovich, R. I. (2020). Advantage And Methodological Problems Of Teaching Computer Science In Modern Schools. *The American Journal of Interdisciplinary Innovations and Research*, 2(10), 13-16.

3. Rasulov, I. M. (2022). ADVANTAGE AND METHODOLOGICAL PROBLEMS OF TEACHING COMPUTER SCIENCE IN MODERN SCHOOLS. *Ученый XXI века*, 22.

4. Muydinovich, R. I. (2022). RAQAMLI TEXNOLOGIYALARNING RIVOJLANISHI TUFAYLI PAYDO BO'LGAN KASBLAR VA ULARNI O'RGANISH. *PEDAGOGS jurnali*, 13(1), 117-122.

5. Muydinovich, R. I. (2022, April). INTEGRITY AND CONTINUITY OF COMPUTER SCIENCE IN THE SYSTEM OF CONTINUING EDUCATION. In *E Conference Zone* (pp. 322-326).

6. Alisherovna, E. N. (2023, May). ZAMONAVIY PEDAGOGIK TA'LIMDA INTEGRATSIYANING AHAMIYATI VA O'RNI. In *E Conference Zone* (pp. 17-24).

7. Жумабоев, С., & Исроилов, У. (2020). СОЗДАНИЯ СРЕДСТВ ЭЛЕКТРОННОГО ОБУЧЕНИЯ В ВЫСШИМ ПЕДАГОГИЧЕСКОМ ОБРАЗОВАНИЕ. *Архив Научных Публикаций JSPI*.
8. Ellaway, R., & Masters, K. (2008). AMEE Guide 32: E-learning in medical education Part 1: Learning, teaching and assessment. *Medical Teacher*, 30(5), 455-473.
9. Egamov, S. (2020). EPRA International Journal of Research and Development (IJRD). *Архив Научных Публикаций JSPI*.
10. Akbar, K., & Sulton, E. (2021). Cloud Technology. *Galaxy International Interdisciplinary Research Journal*, 9(12), 458-460.
11. Egamov, S. (2020). O'quv jarayoniga zamonaviy innovatsion texnologiyalarni joriy etish: muammo va yechimlar. *Архив Научных Публикаций JSPI*.
12. Rahmatov, A., Buribayev, B., Buriboyev, A., Otabekov, A., & Egamov, S. (2020). ABOUT PROBLEMS OF MATHEMATICAL MODELING OF DEVELOPMENT OF CHILDREN'S SPORTS IN REGIONS. *Архив Научных Публикаций JSPI*.