



ONLINE E - Z R E S E A R C H **WORKSHOP TUTORIAL**

 [**http://breeze.csupomona.edu/ez**](http://breeze.csupomona.edu/ez)

The University Library's popular class, E-Z Research Workshop, is now available online for your students. Students will now have access 24/7 to an online tutorial covering the basics of using library databases for research. A certificate of completion is awarded at the end of tutorial after correctly completing an online quiz to verify attendance. By the end of the tutorial students will know how to:

| |
|---|
| Use 5 database search strategies for effective searching |
| Conduct searches using the Boolean operators AND, OR, & NOT |
| Read a bibliographic citation |
| Get and use a Library Password for remote access |
| Select the right information resources for their topic |
| Brainstorm keywords and synonyms for effective searching |
| Determine the availability of the full text of cited items and use document delivery services as needed |

- ❑ Online Tutorial is 26 minutes
- ❑ Assessment Quiz takes 8-10 minutes
- ❑ Online Certificate to turn in to professors

Have questions, want more information, or would like to give me feedback on the tutorial. Please fill out the online evaluation form

<http://www.zoomerang.com/survey.zqi?p=WEB2258HYXBGYL> or contact me directly: Avril Cunningham, University Library's Instruction Coordinator 909 869 4236
acunningham@csupomona.edu.

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Features and Weighting

<http://komodo.utsystem.edu/coursetech/lsteffen/screencapture/compare.html>

| Features and weighting | | Captivate | Viewlet Cam | Viewlet Builder | Camtasia | Turbo Demo | Snapz Pro X 2 |
|------------------------|--|----------------|------------------------|-----------------|----------|---------------------------|---------------|
| Capture | | | | | | | |
| 5 | Full motion recording | - drops frames | ✓ | X | ✓ | X | ✓ |
| 5 | Screenshot recording | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | Mouse Tracking | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 5 | Single Picture Recording | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | Automatic Recording ¹ | ✓ | X | X | X | X | X |
| 4 | Project resizing | ✓ | ✓ | ✓ | ✓ | ✓ Pro only | ✓ |
| 4 | Audio recording | ✓ | ✓ | ✓ | ✓ | - after screenshots taken | ✓ |
| 4 | Audio Quality options | ✓ | ✓ | - limited | ✓ | - limited | ✓ |
| 4 | Video Codec choice/options Frame Rate | ✓ limited | - limited swf ✓ avi | X | ✓ | N/A | ✓ |
| 4 | Color Quality ² | ✓ | ✓ | - limited | ✓ | - limited | ✓ |

¹ Found only in Captivate - You can set an automatic recording option in Captivate. When this option is set, Captivate automatically captures screen shots during the recording process each time you take the following actions:

* Click or press a capture key, *Open a menu or submenu, or select a menu item, *Open a dialog box or a property page, *Click a toolbar button, *Begin dragging, during the drag process, and when you drop, *Click any mouse button while the cursor is in the capture area.

² Color Quality refers to the choice of using billions of colors ranging down to a web standards palette of 216 colors or less. This affects how images look and their respective file size.

| | | | | | | | |
|-------------|--|--------------------------------|------------------------|-------------------------------|--------------------------------------|--------------------------|--------------------------|
| 4 | Movie Dimensions (fixed or custom) | ✓ | ✓ | - limited | ✓ | N/A | ✓ |
| 4 | Inclusion of special effects ³ | ✓ | - limited | ✓ | ✓ | ✓ | ? |
| 5 | Interactivity / Flash hot spot | ✓ | ✓ | Quiz Keystroke | ✓ | X | ? |
| Edit | | Captivate | Viewlet Cam | Viewlet Builder | Camtasia | Turbo Demo | Snapz Pro X 2 |
| 5 | Undo & Redo | ✓ | - undo | ✓ | ✓ | ✓ | ✓ |
| 4 | Edit Effects ⁴ | ✓ need flash for full range | - | - not edit, but for slides | ✓ | - edit slide by slide | ? |
| 4 | Import other files (rich media) | ✓ | X | X | ✓ | ✓ swf | ? |
| 3 | Splice & Combine | ✓ slide - swf in flash | ✓ | - move slides | ✓ | - move slides | ? |
| 4 | Audio Editing ⁵ | ✓ | X | - | ✓ | X | ? |
| 5 | Balloons/callouts, Notes, transparency text creation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | Zoom & Pan effects | - move window or frame | - | X | ✓ | X | ✓ |
| 4 | Rollovers Creation | ✓ | - button | - button | - can make with flash hot spot | ✓ | ? |
| 3 | Drawing of Customized Objects | X | - | ✓ | ✓ | ✓ | ? |
| 4 | Drawing of rectangles and Ellipses | - rectangles | ✓ | ✓ | ✓ | ✓ | ? |
| 4 | Animated Pointers creation | ✓ | ✓ | ✓ | ✓ | ✓ | ? |

³ Special effects refers to transition effects, animated text, animations as well as annotating effects, such as balloons and call-outs.

⁴ Edit effects refers to special effects applied during the edit phase for full motion recordings.

⁵ Audio Editing refers to being able to actually edit the audio file by clipping or inserting new segments to achieve your final audio effect and file size.

| | | | | | | | |
|--------|--|-----------|--------------------------|--------------------|------------------------------|-----------------------------------|------------------|
| 2 | Animated Elastic Bands ⁶ | ✓ | ✓ | - | N/A | ✓ | ? |
| 3 or 4 | E-learning: SCORM FLASH Compatible | ✓ | X | ✓ | ✓ | - pro or enterprise version | ? |
| 4 | Interactive Text Areas | ✓ | - button | ✓ | - flash hot spot | - pro or enterprise version | ? |
| 3 or 4 | Interactive Key Strokes | ✓ | X | ✓ | X | ✓ | ? |
| Edit | | Captivate | Viewlet Cam | Viewlet Builder | Camtasia | Turbo Demo | Snapz Pro X 2 |
| 5 | Hyperlinks | ✓ | - button | ✓ | ✓ | ✓ | ? |
| 3 or 4 | Import SWF files | ✓ | X | X | ✓ | ✓ | ? |
| 3 or 4 | Import Movie or AVI files | ✓ | ? – needs more tsting | X | ✓ | X | ? |
| 4 | Project Templates | ✓ | X | ✓ | ✓ | X | ? |
| 4 | Text animations | ✓ | - manual | ? | ✓ | X | ? |
| 4 | Interactive Mouse Clicks | ✓ | - button | ✓ | - flash hot spot | ✓ | ? |
| 3 or 4 | Apply Actions to Objects | ✓ | - button | ✓ | - flash hot spot | - pro or enterprise version | ? |
| 3 or 4 | Apply actions to slides | ✓ | X | ✓ | X | - pro or enterprise version | ? |
| 3 | Quizzing (Questions and Answers) | ✓ | X | ✓ | - manual – flash hot spot | - pro or enterprise | ? |
| 3 | Statistics Graph Creation | ? | X | ? | Morae ⁷ | - pro or | ? |

⁶ Animated Elastic Bands refers to the trail or path the mouse/cursor moves in. After recording you can move or edit the “elastic band” to change the direction of movement for the mouse.

⁷ Morae is a sister software program also made by Techsmith, that is designed to capture user data.

| | | | | | | | |
|-------------------------|--|--|--------------------|------------------------|------------------------|--------------------|----------------------|
| | | | | | | enterprise version | |
| Evaluate | Evaluate Clicks & tests (text being typed in for match?) | ✓ | X | ✓ | X | - basic quiz | ? |
| 3 | Evaluation of sequential clicks on screen | ? | X | ? | X | X | ? |
| 3 | Conditional Branching (multiple hot spots & destinations) | - can make it seem so ⁸ ✓ in quiz wizard | X | ✓ | - can make it seem so* | X | ? |
| Out Put /Publish | | Captivate | Viewlet Cam | Viewlet Builder | Camtasia | Turbo Demo | Snapz Pro X 2 |
| 5 | File size | ✓ small | ✓ small | ✓ small | ✓ small | ✓ small | ✓ |
| 5 | Flash Animation (SWF, FLV or FLA) | ✓ SWF | ✓ SWF | ✓ SWF | ✓ SWF, FLV | ✓ | ? |
| 4 | Flash Components (Movie loader, movie control, movie duration) | X | X | X | ✓ | X | ? |
| 3 or 4 | CD-ROM (menu/interface – come with menus?) | ? | X | X | ✓ | ? | ? |
| 4 | Web Presentations (Makes HTML for you) | ✓ | ✓ | ✓ | ✓ | X | ? |
| 2 | AVI movie | X | X | X | ✓ | ✓ | ? |
| 3 or 4 | EXE File Creation | ✓ | ✓ | X | ✓ | ✓ | ? |
| 4 | GIF File Creation | Via Word ⁹ | ✓ | X | ✓ | ✓ | ✓ |
| 4 | PDF file Creation | Via Word * | ✓ | ✓ | ✓ | ✓ | ? |
| 2 or 3 | Windows Media Player (WMV) | X | X | X | ✓ | - ASF | ? |
| 3 or 4 | Apple Quicktime (MOV) | X | X | X | ✓ | X | ✓ |
| 2 or 3 | Real Media (RM) | X | X | X | ✓ | X | ? |

⁸ * Can make it seem so – means that it is not native to the program, but there is a work around.

⁹ * Via Word means it is not native to the program, but the work around can be done through a series of actions using Microsoft Word.

| | | | | | | | |
|----------------------------|---|-----------------------------------|--------------------|------------------------|--|-------------------|----------------------|
| 4 | Export Screenshots (JPG, TIFF, BMP, PNG) | Via Word | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 | Animated GIF | X | ✓ | X | ✓ | ✓ | ? |
| 5 | Additional Navigating control panel ¹⁰ | ✓ | ✓ | ✓ | ✓ | ✓ | ? |
| 4 or 5 | Streaming and enhanced compression | - analyze bandwidth ¹¹ | X | X | ✓ | X | ? |
| 4 | Optimized Flash Animation | ✓ | - | X | ✓ | X | ? |
| 3 or 4 | Pre-Loader | ✓ | ? | ✓ | ✓ | X | ? |
| 4 or 5 | *Continuous capture/slide | - drops frames ¹² | ✓ | X | ✓ | X | ✓ |
| 3 | Integrate with LMS | ✓ | ? | ✓ | ✓ | ✓ | |
| Additional Options | | Captivate | Viewlet Cam | Viewlet Builder | Camtasia | Turbo Demo | Snapz Pro X 2 |
| | Convert PowerPoint to Flash | ✓ | X | X | ✓ | X | ? |
| 3 | Capture tool for MAC | X | X | X | X | X | ✓ - ONLY |
| 3 | Multi_Language | ✓ | ✓ | ✓ | ✓ | ? | ? |
| 3 | Sub-menu system / templates (CD / WEB) | ✓ | X | X | ✓ | X | ? |
| 5 | Native training on how to use | ✓ | - minimal | - minimal | ✓ - loads of online training & support | - | ? |
| 5 | Accessibility Compatible? | ✓ | ✓ | ✓ | ✓ | ? | |
| System Requirements | | | | | | | |

¹⁰ Additional Navigating control panel means that there is a scroll bar with forward and backward motion to navigate to a different part with in the presentation.

¹¹ Analye bandwidth means that you can go to the analyze bandwidth

¹² You must turn off your hardware acceleration to use properly, but even then it drops frames, so "video" appears to be somewhat choppy or missing steps. Audio also drops out of sync or goes off track as the presentation progresses.

| | | PC Authoring *600 MHz IntelPentiumIII processor or equivalent *Windows 2000 or Windows XP *128 MB RAM (256 MB or more recommended) *100 MB available disk space *Minimum resolution 800 x 600 (1024 x 768 or higher recommended) | PC Windows 98/98SE/NT/2000 /XP platforms Intel PIII/AMD K6 550 Mhz 256+ MB Ram 16bit+ Video card - 800x600 minimum resolution | PC For Windows 98/98SE/NT/2000 /XP platforms Intel PIII/AMD K6 550 Mhz 256+ MB Ram 16bit+ Video card - 800x600 minimum resolution | PC Microsoft Windows 2000 Workstation, Microsoft Windows XP Professional, Microsoft Windows XP Home Edition, Microsoft Windows 2000 Server | PC | MAC OS X |
|-------------|------------|---|---|---|--|--|----------|
| Cost | | | | | | | |
| 5 | Single | EDU - \$ 200 REG - \$ 500 | \$150 | \$300 Upgrade \$100 | \$300 Upgrade \$150 | \$ 299 pro | |
| 5 | Multi-user | N/A | | 5-user \$ 995 | | Pro only 2-5 \$ 439 6-10 \$ 389 | |
| | | | | | | | |
| 5 | Bundle | N/A | \$ 405 – both cam & pro (included 2 year download service) ** \$250 from Camtasia or Captive | | \$319 with Snag- it 5 user -\$ 995 5 user with snagit -\$ 1095 | \$ 790 w/matience Maint/ multi 2-5 %545 6-10 \$490 | |

Ease of Use: This section is subjective. It was done from the point of view of a basic computer user who knows Microsoft products as opposed to graphic, design or programming software.

| | Captivate | Viewlet Cam | Viewlet Builder | Camtasia | Turbo Demo | Snap Pro X 2 |
|-------------------------|---|-----------------|-----------------------------|----------|------------|--------------|
| Interface design | ✓ | ✓ | - edit not | ✓ | ✓ | ✓ |
| Intuitive | - | - | - | ✓ | ✓ | ✓ |
| Have to read directions | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Capture | - mix of full capture & slide difficult | - not intuitive | - press key 4 every capture | ✓ | - | ✓ |
| Edit | - mix of full & slide difficult | - | ✓ | ✓ | - | ✓ |

Additional NOTES:

| Captivate | Viewlet Cam/ Builder | Camtasia | Turbo Demo | Snap Pro X 2 |
|--|---|--|---|---------------------------------------|
| <p>Captures in slides & "jumpy", full motion. To get an "almost "true motion" requires user to turn off hardware acceleration. Works better with mix of slide & true motion (long true motion captures bleed off track with audio and go very slow).</p> <p>Can't edit full motion captures.</p> | <p>The cam version appears to be full motion. The builder is more interactive. Would need to purchase both.</p> <p>Easy to edit, and interactive.</p> | <p>Full motion capture. Complete editing features, lots of output & CD menu templates.</p> <p>No export to Flash MX, but can bring in & has Flash components.</p> <p>No true interactive elements.</p> | <p>Straight up screen shot (have to set time to snap screen shots).</p> <p>Easy to edit for slide only program.</p> | <p>MAC only – needs more testing.</p> |

Screencasting Comparisons:

<http://www.donationcoder.com/Reviews/Archive/ScreenCasting/>

EDUCAUSE has published a new addition to its "7 Things You Should Know About..." series. The latest report focuses on screencasting. A screencast is a screen capture of the actions on a user's computer screen, typically with accompanying audio. The report details how it works, why it is significant, and what the implications are for teaching and learning. <http://www.educause.edu/ir/library/pdf/ELI7012.pdf>



BEST Fast-motion/ Quality
BEST Editing

TechSmith Camtasia Studio Price: \$300.



BEST Price (express ed.)
BEST Low-bandwidth

BB FlashBack Price: \$200-\$300.

BEST Price (express ed.)
BEST Low-bandwidth

[BB FlashBack Express](http://www.bbsoftware.co.uk/BBFlashBackExpress/Features.aspx) is a cut-down version of the expensive full BB FlashBack program, which is very reasonably priced at **\$40**, but has all **editing and annotation features removed** (it's also more restricted with regard to output formats). This may be the program for you if you want to make simple movies. Although you may occasionally miss the ability to add a text callout box, or remove some portion of a movie, you can usually get by without it, and editing is often more trouble than simply re-recording the movie. It's a very good price for a very good program, and a great introduction to the practice of screencasting for those who want to get their feet wet without buying a scuba suit. Feature List (and comparison with full version): <http://www.bbsoftware.co.uk/BBFlashBackExpress/Features.aspx> . Price: **\$40**.



BEST interaction, quiz,
scripting

Macromedia Captivate Price: \$500.



BEST PRICE

Qarbon ViewletCam Price: \$150 (windows only).



Wink

FREE!!!

It's not the best screencasting tool, and it's missing many important features that its commercial brethren have, including support for audio narration (though you can find some involved workarounds on the Wink forums, and audio support has been promised in a future version). It's a fairly primitive periodic screenshot program compared to the fluid movie tools that have won the best-in-class award, but you can't beat the price, and it is capable of producing super small files. So if tiny demo movies are what you are after and you don't mind doing extra manual labor and using a program that is a little rough around the edges, Wink might be for you.