Recording Annotations using Ink2Go
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Delivering Online Lessons
The Internet and multimedia technologies are reshaping the way knowledge is delivered, and e-learning is becoming a real alternative to traditional classroom learning. In the past few years, e-learning has emerged as a promising solution to lifelong learning and on-the-job training. The table below illustrates the advantages and disadvantages of e-learning in comparison with traditional classroom learning.

<table>
<thead>
<tr>
<th>Traditional Classroom Learning</th>
<th>E-learning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advantages</strong></td>
<td></td>
</tr>
<tr>
<td>Provides immediate feedback</td>
<td>Learner-centered and self-paced</td>
</tr>
<tr>
<td>Familiar to both faculty and students</td>
<td>Flexible time and location</td>
</tr>
<tr>
<td>Motivates students</td>
<td>Unlimited access to knowledge</td>
</tr>
<tr>
<td>Cultivates a social community</td>
<td>Allows for archiving, thus enabling knowledge reuse and sharing</td>
</tr>
<tr>
<td><strong>Disadvantages</strong></td>
<td></td>
</tr>
<tr>
<td>Teacher-centered</td>
<td>Lack of immediate feedback</td>
</tr>
<tr>
<td>Time and location constraints</td>
<td>Increased preparation time for faculty</td>
</tr>
<tr>
<td>More expensive to deliver</td>
<td>Potentially more frustration, anxiety and confusion</td>
</tr>
</tbody>
</table>

It is important to understand that using technology to supplement classroom teaching does not radically change teaching methods but merely enhances what would be done normally in the classroom. If e-learning courses are not designed and delivered well, they will result in frustration, confusion, and reduced learner interest. If only text-based learning materials are used to develop such courses, then they may lead to boredom and disengagement in students and prevent them from gaining a good understanding of a topic. Good e-learning courses should integrate and present learning materials in diverse media such as text, image, sound, and video with sufficient learner-content interactivity and flexibility.

Here are some guidelines when delivering e-learning courses:

- **Know your audience**
  It is important to identify your audience and to be sensitive to the needs and interests of your audience. Define prerequisites for your course, and if you have the tools and time, verify that those tasks have been completed by your students.

- **Deliver organised content**
  Make sure the content you plan to deliver is relevant, organised, clear, and to the point. If you confuse your learners with too much topic-jumping, recovery from confusion in an online environment will be exponentially more challenging.

- **Rehearse your presentation**
  Run through a rehearsal of your presentation – with an audience of more than one. You don’t need to ask your colleagues to join you for the entire two hour session, but just run through each topic and presentation element to ‘mark’ each move you plan to make.

- **Be more of yourself**
  Develop your own online teaching style, and making yourself and your learners comfortable in the online environment. Become comfortable using your web camera and use it briefly to
introduce yourself, and to bring a personal feel to the room. Provide your audience with some suggestions and ground rules for how to interact in your classroom.

- **Deliver meaningful fun**
  Use multimedia, flash animations and games that are specifically designed to augment the learning experience and help meet the goals of your class.

### What is Screencasting?
A screencast is a digital video recording that captures actions taking place on a computer screen. It is also known as a video screen capture and often contains voice-over narration. Screencast lectures are useful to:

- Demonstrate how something works (e.g. how to use specific operating systems, software applications or lab experiment)
- Answer often-asked questions, just in time help
- Allow users to refresh their knowledge as often as they wish with the help of 'play-stop-pause-rewind' functionality.

### How do I make a Screencast Lecture?
Content is the key to creating a screencast lecture. In most cases, a screencast can be an instructional video teaching a process or technique, or get a set of ideas across to an audience. If you cannot keep the attention of the audience, the screencast may be rendered useless. When choosing a topic, start with areas that are within your knowledge base, and can be covered in the time allotted to complete the series.

There are five basic steps to create a screencast lecture:

**Planning**
- Having a script or an outline may be utilized when preparing for your recording. It is always a good practice to do a dry run of the presentation before recording. Practice makes perfect, and the more familiar you are with your content, the more polished the final recording will be.

**Recording**
- During recording, please remember to move at a pace that is comfortable for your audience and speak clearly to avoid any confusion. Also, please keep in mind to partition your recording into chunks. (15 to 20 minutes).

**Reviewing**
- Review the video and make sure that no steps were left out and that the flow of the presentation makes sense and is easy to follow. If imperfections are found, you may choose to edit or re-record the video altogether.

**Editing**
- When editing, please keep in mind the display resolution and sound quality to give students a consistent user experience. It is also advisable to take out verbal pauses and tags such as hums, ahs, and words that you keep on repeating unconsciously.

**Publishing**
- Once you finished your recording, distribute the videos and make it available to your students. Remember to cite your references to avoid copyright issues.
Lecture Annotations using Ink2Go!

Ink2Go is an alternative application to record lectures using annotation tools to emphasize or clarify a concept by writing or drawing over any application. The annotations can be saved as a graphic file or the session can be recorded as a video for later viewing.

**Downloading and Installing Ink2Go**

1. Open your browser and type [https://ink2go.nus.edu.sg](https://ink2go.nus.edu.sg) in the address bar.
2. Select a platform to install.
3. Enter your NUSNET UserID and password when prompted.
4. Choose a folder to save the application.
5. Double click the exe file to start the installation.

**Setting Preferences**

1. Click Start> All Programs> Ink2 Go.
2. Ink2 Go tools will display on screen.
3. To set the preferences, click Settings> Preferences.
4. You can change the Application Shortcut or leave the default shortcut keys.
5. Specify whether you want the mouse pointer to be captured or not during the recording.

**Recording Annotation**

1. Open an application that you want to use during demonstration or simply click on the **Whiteboard** tool.

2. Click the **Text** tool to type some text on the screen. You can specify the colour and size to use.

3. Click the **Pen** tool and choose a stroke size and colour to use to doodle. You can use the **Eraser** tool to delete parts of your annotation.
4. Click on the **Select Region** tool to specify the area that you want to be visible during the recording. If you want to include a video of yourself during the recording, please make sure to turn the web cam option and put it inside the selected region.

5. Click on the **Record** button to start recording your annotations. You will be prompted to enter a filename and choose the directory where you would like to save your file.

6. Click the **New** button to add a new page. You may use the **Previous** and **Next** buttons to navigate the pages.

7. Click the **Stop** button when you are done or use the assigned hotkey to stop the recording.

**Saving Annotation as an Image**

1. Go to the page where you want to save the annotation and then click the **Save** button.

2. Choose the directory where you would like to save your file.

3. Enter a filename and the file format (jpeg, png, gif, or bitmap) and then click **Save**.
Creating Screen Capture Videos for Teaching and Learning

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Sharing your Screencast Lecture to students
1. Login to IVLE using your NUSNET UserID and password.
2. Click Resource Banks> Multimedia Bank
3. Click Create Folder.
4. Enter a title and then click Save.
5. To share the web link to your students, click Files from Multimedia Bank.

7. Enter a title and the media URL.
8. Under the Link to Multimedia, select your module.
9. Click Save.
10. Click the link to test.

Download a Video
1. From the Workspace, click Others> Screencast.
2. On the left navigation, select Camtasia Relay or Ink2Go.
3. A list of the recorded lectures will be displayed on screen, select the file that you would like to download and click the DL button.

4. Save the zip file into your local machine.
5. Extract the zip file from your local drive to view the MP4 and SWF format. Students can copy the MP4 file straight to their portable media player.

Deleting a Video
1. In the list of recorded lectures you have published, select the one that you wish to delete by clicking the trash icon (Del).
# Appendixes

## Comparison between Breeze, Camtasia Relay & Ink2Go

<table>
<thead>
<tr>
<th>Feature</th>
<th>BREEZE</th>
<th>CAMTASIA RELAY</th>
<th>INK2GO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create presentations in:</td>
<td>Windows only. Breeze presentations can be viewed on any OS supported by Flash Player.</td>
<td>Windows &amp; Mac.</td>
<td>Windows &amp; Mac.</td>
</tr>
<tr>
<td>Interface</td>
<td>A plugin which works only within Microsoft PowerPoint.</td>
<td>A virtual camera that records what is shown on your computer's desktop.</td>
<td>A virtual camera that records annotations on your computer screen.</td>
</tr>
<tr>
<td>Audio recording</td>
<td>Yes. Record per slide.</td>
<td>Yes. Record in one take. Can crop start and end.</td>
<td>Yes. Record in one take</td>
</tr>
<tr>
<td>Webcam recording</td>
<td>Yes.</td>
<td>Yes.</td>
<td>Yes.</td>
</tr>
<tr>
<td>Recording area</td>
<td>Records full screen.</td>
<td>Records full screen.</td>
<td>Records full screen or selected area of desktop.</td>
</tr>
<tr>
<td>Multiple monitor support</td>
<td>N.A.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
<tr>
<td>Extra tools</td>
<td>Interactive quizzes, video recording, flash</td>
<td>None.</td>
<td>Whiteboard. Annotation tools.</td>
</tr>
<tr>
<td>Upload mechanism</td>
<td>Publish to server when ready.</td>
<td>After recording, automatically uploads in the background whenever the computer on which you recorded is switched on.</td>
<td>After recording, the application uploads the video file.</td>
</tr>
<tr>
<td>Viewing</td>
<td>Flash-based web page, accessible from IVLE.</td>
<td>Video, stored on server, accessible from IVLE.</td>
<td>Video, stored on server, accessible from IVLE. Video file also available on the computer where you recorded the presentation.</td>
</tr>
</tbody>
</table>