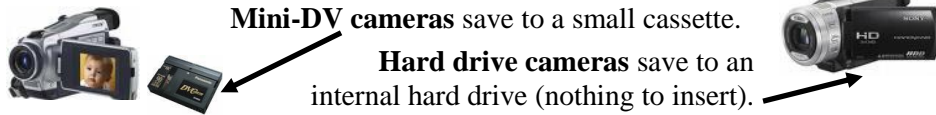


## Getting Started...Different Types of Cameras

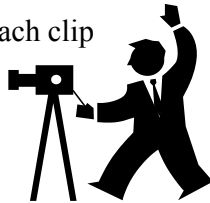
Depending on the camera, video is transferred to the computer in different ways. SONY TRV cameras common at Shen transfer by **firewire** (IEEE 1394). This requires a special firewire card be installed in the computer. Currently, at least one computer at each school (typically in the lab or library) has a firewire card. Newer **hard drive** cameras transfer video via USB connection. **Codecs** (programs that *encode* and *decode*) may be required for MovieMaker to recognize files coming from a hard drive (see **Sony Codecs** below).



Note: Due to the format in which it is saved, video from camcorders that save directly to DVD generally cannot be edited in MovieMaker.

## Filming Tips and Tricks

- Before filming, create a storyboard to map out the necessary scenes.
- Film a few seconds, then replay it to make sure your camcorder is working properly before filming for an extended time.
- Allow several seconds of “extra footage” before and after each clip (this will be helpful when editing).
- When possible, use a tripod for a steady shot.
- Consider using an external microphone if available (not all camcorders have an external microphone jack).



## Sony Codecs (hard drive cameras only)

Some hard drive cameras save in a format not inherently compatible with MovieMaker. Installing a codec often resolves the problem. The directions below apply to Sony DCR-SR42 (other models may require different codecs).

Navigate to **G:\Instructional Services\TeacherResources\EdTechResources\Utility Programs\Media\Video\hdd camcordercodec\mpeg2decfilter\_20060310\Release Unicode\Mpeg2DecFilter.ax**

- Copy the **mpeg2decfilter.ax** file into the **System32** folder on the local hard drive [C:\WINDOWS\system32].
- Use the **Start** menu to select **Run**. Type **regsvr32 mpeg2decfilter.ax**
- Click **OK**. Close all windows after the file successfully installs.

## Step 1-Capture Video

Start the application. Click  → **All Programs**  →  Windows MovieMaker

Editing video with MovieMaker is a 3-step process. First, **CAPTURE** video from a mini-DV or hard drive camcorder. Next, layout and **EDIT** the video. Finally, **FINISH** (export) the video to computer or other output source.

In the **Movie Tasks** pane on the left, click **Capture from video device**. Click **Next**. Choose a name and location to save the video clip. [Note: video clips are large and may need to be temporarily saved on the C: drive]. Click **Next**.

The Video Settings screen gives options for the quality of the video capture. For most situations, click the **Other Settings** option and select **High Quality Video (large)**. Click **Next**.

Play, rewind or fast forward on the camcorder to play a video clip. Notice it plays in the preview screen on the computer. Use the **Start Capture** and **Stop Capture** buttons to capture specific video segments. Click **Finish** when done.

It takes a few minutes to import clips. They appear as separate items in the Collection area (all clips are saved as one file in the location selected earlier).

## Step 2 - Edit Video

Movies are assembled in lower third of the screen. This section can display either of two editing modes: **storyboard** or **timeline**. Timeline view is very user-friendly. Click on the **Show Timeline** button to switch between modes.

**Add clips to timeline or storyboard** – Drag captured video clips from the Collection area to the timeline/storyboard below. Video clips appear on the video track. All aspects of the movie will eventually be added to the timeline.

**Edit clips** – When filming, record extra footage at the beginning and end. This allows you to edit clips without losing any of the speaker’s words. Click to select a clip on the timeline. If desired, play the clip in the preview window on the right. Some clips may need to be trimmed at the beginning or the end. Click to select a clip and move the cursor to the beginning or ending edge of the clip (the cursor becomes a **double red arrow**). Click and hold the left mouse button, then drag to remove a section of the video. Let go of the mouse to cut (trim) the video. If necessary, use the zoom tools (+ or -) to view details.

## Step 2 - Edit Video (continued)

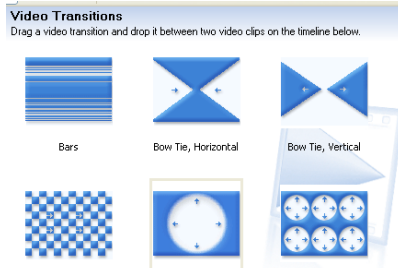
**Edit Clips (continued)** – Clips can also be trimmed using the preview window and the **split clip** tool. Use the slider bar in the preview window to locate the frame at which you would like to place a cut. Click on the “**Split clip into 2 clips at the current frame**” button. This separates the video into 2 separate clips. Click on the one you would like to remove and click **delete** on your keyboard.

**Add Sound** – To add a previously saved sound, look under the **Capture Video** section in the **Movie Tasks** pane and choose **Import audio or music**. Once a sound file appears in the Collection Pane you can drag it to the audio track on the timeline (audio files can only be added in timeline view). Right-click on an audio track to adjust volume or fade in/out. MovieMaker only allows 2 audio tracks (one connected to the video track + one more (narration or music).

**Add Still Images** – Use the **Import pictures** option in the **Movie Tasks** pane to add still images to your project. To minimize pixilation, make sure images are at least 640x480.

**Titles/Credits** – To add titles, look in the **Edit Movie** section of the **Movie Tasks** pane and choose **Make titles or credits**. Choose from 5 options for the title location. Type the title text. If desired, use the **Change font and color** and/or **Change the title animation** features for additional options.

**Transitions** – Transitions are used to blend one scene into the next. In the **Edit Movie** section of the Movie Task pane select **View Video Transitions** (60 options). Click and drag a transition between 2 clips on the timeline/storyboard. To change the duration of a transition, click to select it. Position the cursor on the edge of the transition and drag the **red double arrow**.



**Video Effects** – Twenty-eight individual video effects can be individually applied to clips. Effects include brightness, film grain, sepia tone, grayscale, rotation, slow down, speed up, etc. To change or remove an effect from a clip, right-click on the clip and select **Video Effects**.

## Step 2 - Edit Video (continued)

Capture and import options

Edit movie options: titles, transitions, etc.

Click + or - to zoom in /out (in Timeline View)

Toggle between timeline and storyboard

Video Clip #1

Video Clip #2

Position Slider

Audio Track

Preview window

Split Clip Button

Collection Pane – captured video segments and imported pictures/audio are stored here

## Save a Project

Use the **File** menu to select **Save Project As**. Name the file appropriately. The actual project file is small, but the files associated with it (captured clips) will likely be large. MovieMaker needs access to all associated files to eventually make a movie. **DO NOT MOVE OR DELETE ANY VIDEO CLIPS OR FILES UNTIL THE FINAL PRODUCT HAS BEEN PRODUCED.**

## Step 3 - Make Movie

MovieMaker has 5 output options (ways to save a movie). Each has pros and cons.

- (1) **My Computer:** Save to your local hard drive or shared network location. **(Can only be played back on computer)**
- (2) **Recordable CD:** Save to a recordable or rewriteable CD (CD-R or CD-RW). Must have CD burner on the computer where movie is being produced. **(Cannot save large movies)**
- (3) **Email:** Save the movie as an attachment to send in an email message. **(Movie must be small and compressed when choosing initial video capture settings.)**
- (4) **Web:** Save the movie and then send it to a video hosting provider on the web. **(Requires an account with a 3<sup>rd</sup> party company)**
- (5) **DV Camera:** Save to a digital video tape in your camcorder (ONLY available when a DV camera is connected to a firewire) port. **(Most Shen computers do not have firewire ports)**

Output format should be consistent with the initial video capture quality (i.e. If you chose *High Quality (Large)*, it may not be feasible to output the movie to email). The most common output format is **My Computer** (videos saved to My Computer may be later burned to CD or DVD).

This final step may take up to 2-3 times the actual movie length and is best done when the computer is not being used for other tasks.