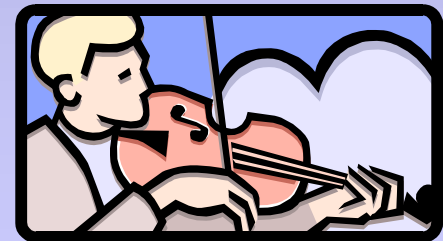


Easy-To-Learn-and-Use Methods for Presenting Audio and Video Technologies Online

http://www.georgetown.edu/users/tj3/sol_files/frame.htm

Taeyeol Park
Biomedical Academic Computing Center
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Gelardin New Media Center
Joseph Mark Lauinger Library
Georgetown University
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Abstract

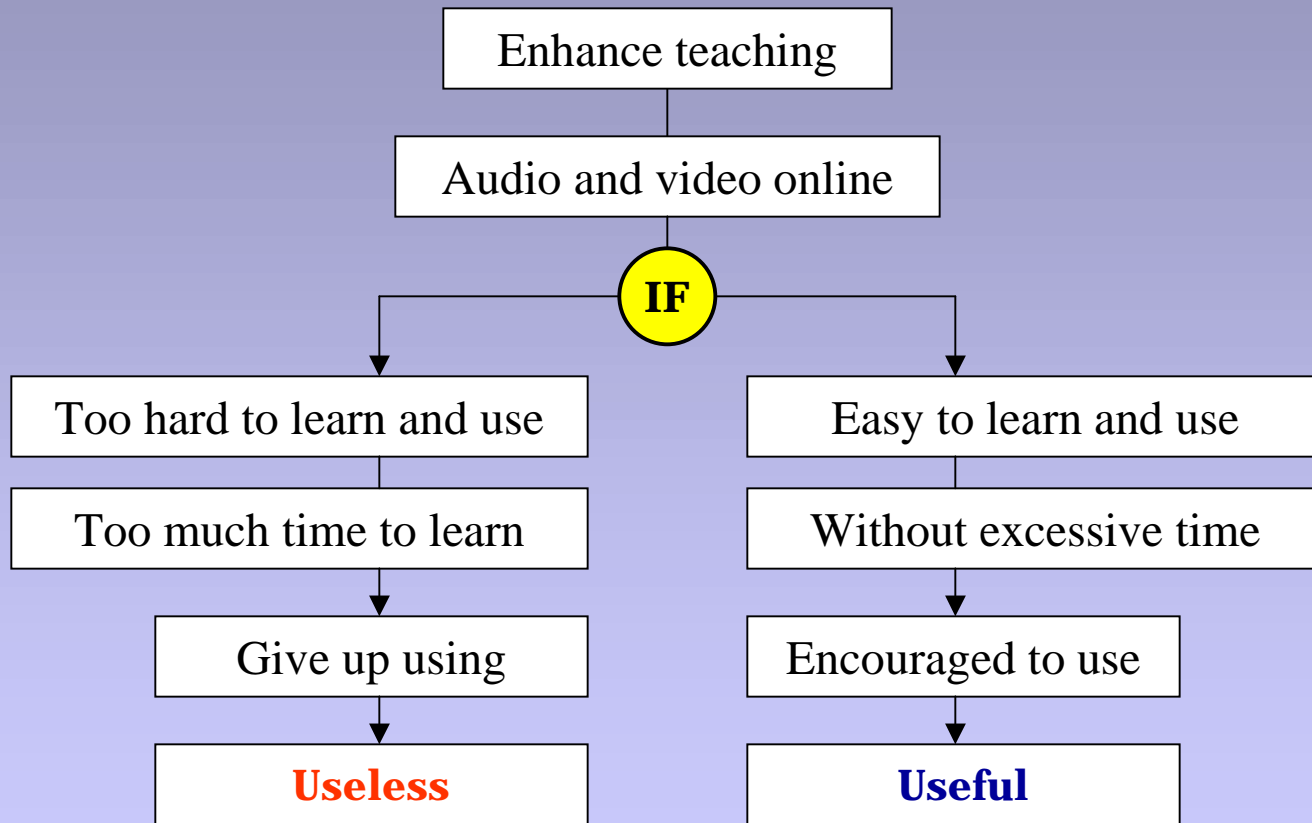
Instructors and faculty in higher education find that it takes a large amount of time to learn to use new technologies in the classroom. Multimedia specialists who support faculty find that if faculty have a hard time using the technology they will not be enthusiastic about applying it to their teaching. It is difficult for university faculty and teaching assistants to carve out large blocks of time to acquire new skills. They want technologies that can give them a large benefit from spending a minimal amount of time. It is particularly difficult for them to achieve their teaching objectives using multimedia.

This workshop will introduce an effective and practical approach to select and provide easy-to-learn multimedia technologies for instructors to use in an online format. These methods will encourage instructors to use technology to enhance their teaching. This workshop will demonstrate both audio and video multimedia technologies through which instructors can quickly acquire and easily apply skills to their teaching activities, and get a notable improvement of their teaching. It will consist of two sections, audio and video.

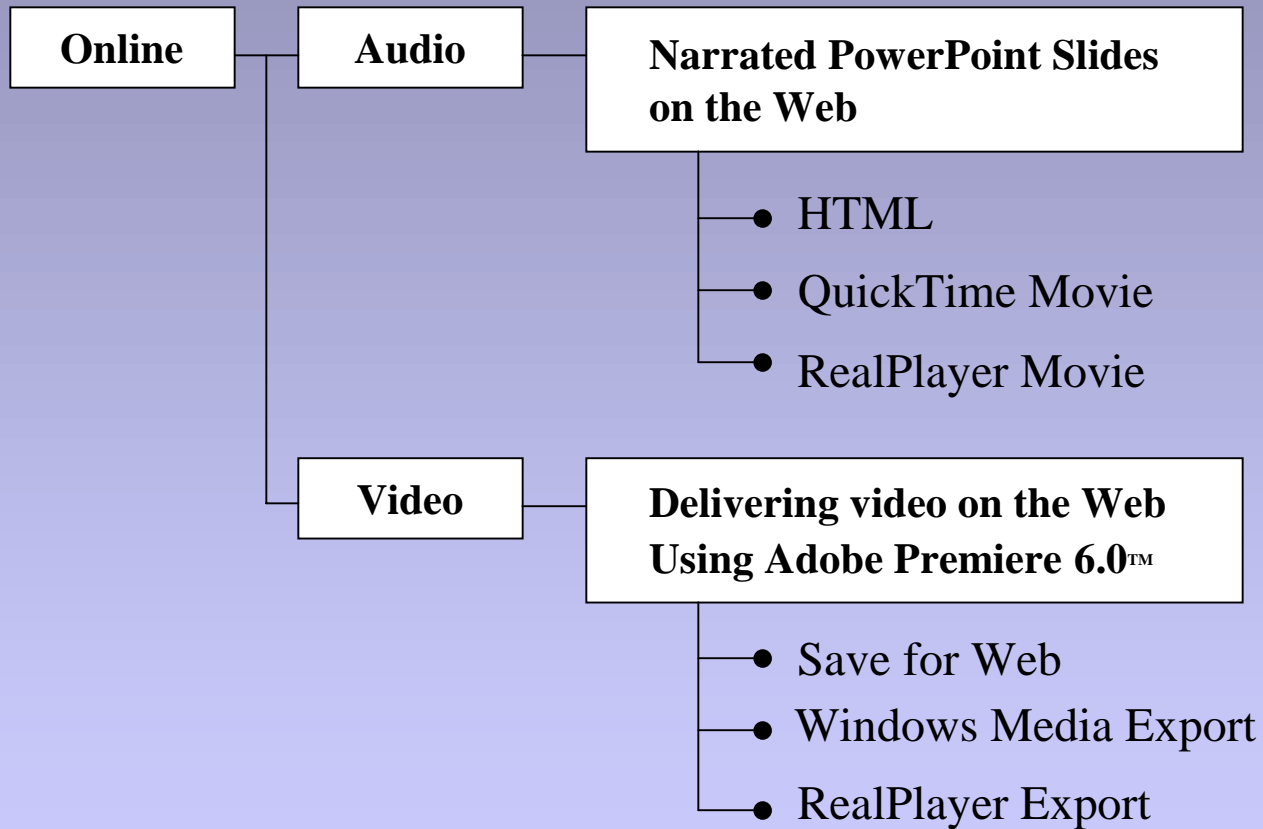
Abstract (continued)

The audio section will introduce easy-to-use methods for instructors to add audio narration to PowerPoint slides for online presentations, methods that do not require a lot of additional work. These online narrated slideshows can be used in classroom lectures, conference session previews, or other teaching or training activities. This workshop will cover methods using Microsoft's PowerPoint, Apple's QuickTime and RealNetwork's RealPresenter. The video section will cover the evaluation and choosing of a reliable and easy-to-use desktop video editing system with a focus on Adobe Premiere. Adobe Premiere allows for integration with both analog and digital video and can be supported easily on the university campus. Built-in export features used to compress video clips that are new in Premiere 6.0 will be demonstrated. Example clips will be exported in a variety of formats.

Easy-To-Learn-and-Use Methods



Easy-To-Learn-and-Use Methods



Why PowerPoint Slides?

- Many instructors use
- Easy to create
- Narrated slides
- Delivery on the Web

What Can We Use Online Narrated Slides for?

- Self-contained presentation
- Class lecture preview or review
- Conference session presentation preview
- Library orientation training session
- Online course materials



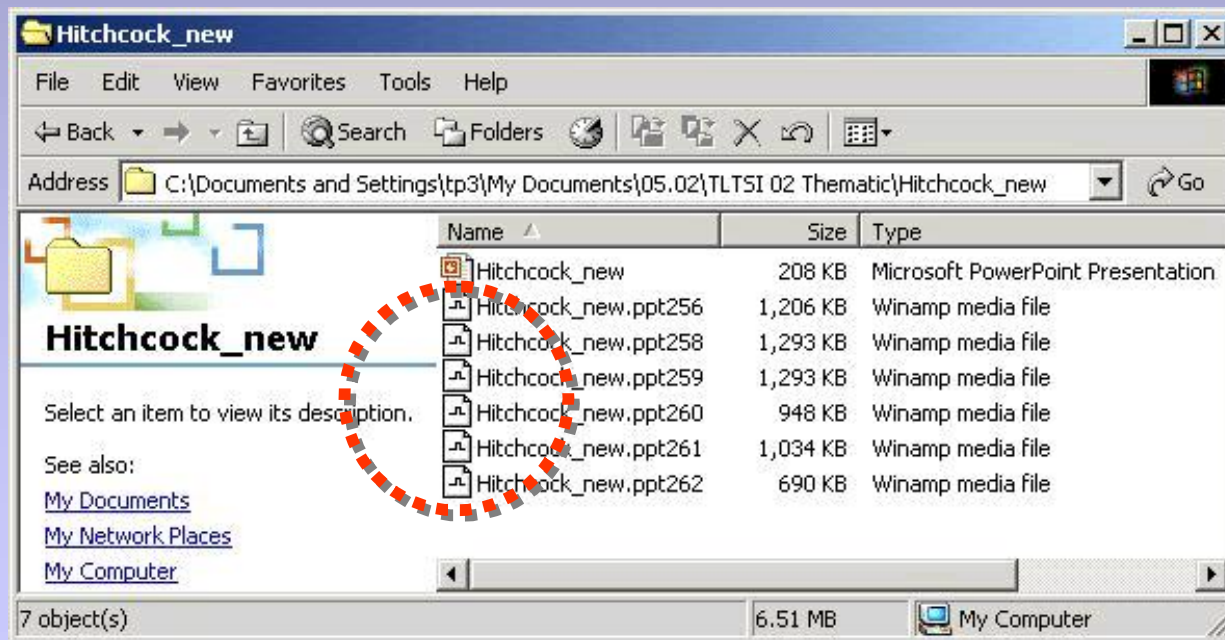
Recording Narration in PowerPoint

- Embed narration
- Make narration with separate audio files (.WAV)



Recording Narration in PowerPoint

- Embed narration
- Make narration with separate audio files (.WAV)



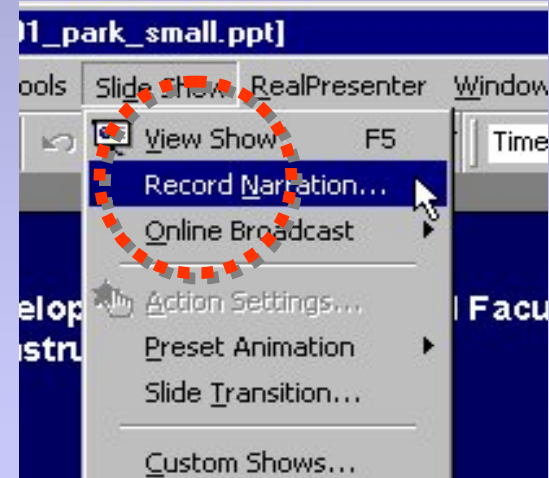
Delivering Narrated PowerPoint Slides on the Web

1. Save narrated PowerPoint slides as **Web page**
2. Convert narrated PowerPoint slides to a **QuickTime** movie
3. Add narration to PowerPoint slides and create a **RealPlayer** movie, streaming audio/video with RealPresenter
4. Create a **QuickTime** movie with slide image files and audio narration files

1. Save Narrated PowerPoint Slides as a Web Page

Procedure

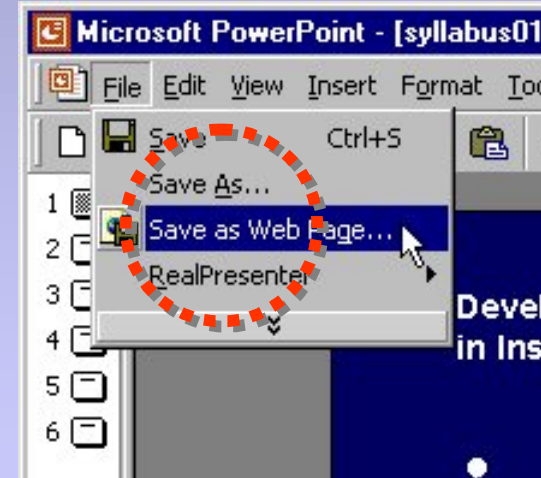
1. Record narration to PowerPoint slides
2. Save narrated PowerPoint slides as Web page
3. Upload to a Web server
4. Internet Explorer (O.K.)
Netscape (unable to hear narration)



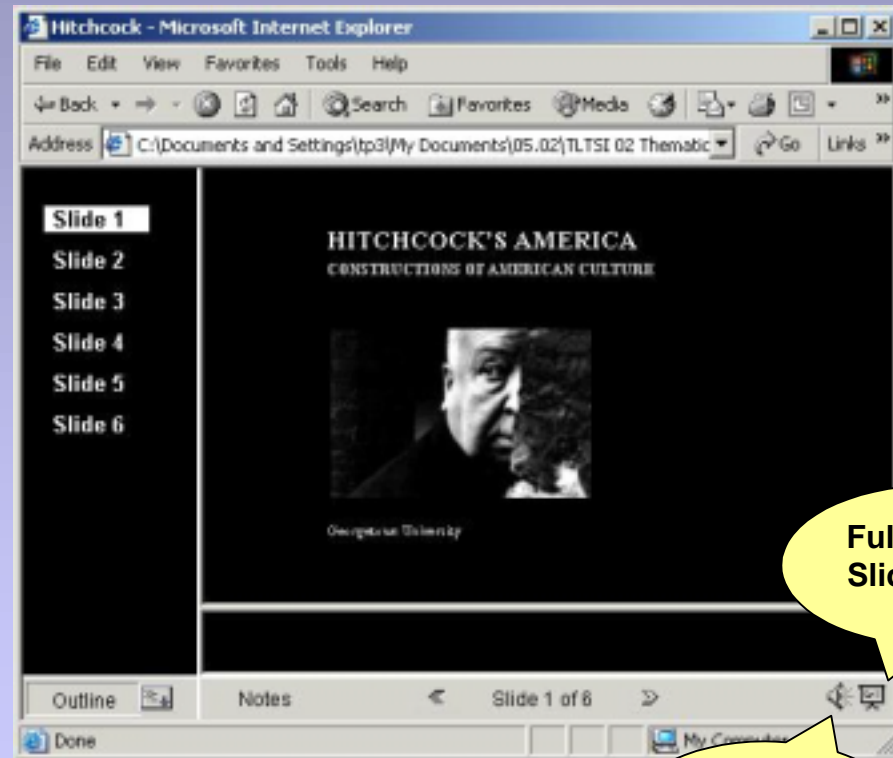
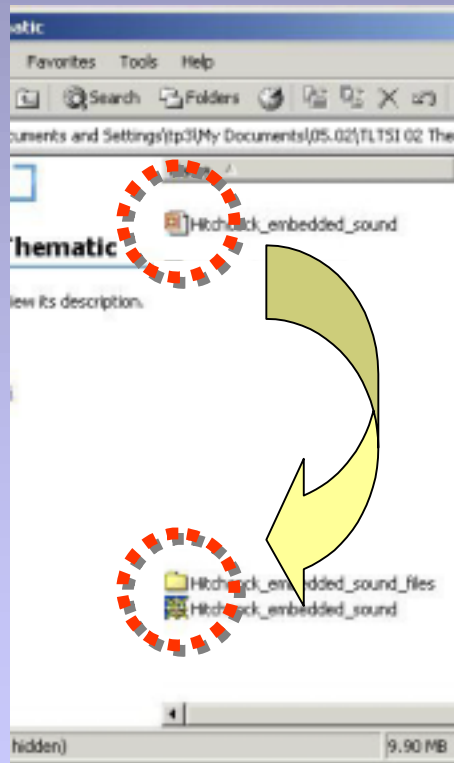
1. Save Narrated PowerPoint Slides as a Web Page

Procedure

1. Record narration to PowerPoint slides
2. Save narrated PowerPoint slides as Web page
3. Upload to a Web server
4. Internet Explorer (O.K.)
Netscape (unable to hear narration)
 - Easy to create, no additional work
 - Web browser compatibility issue
 - Big audio file size (.WAV)



1. Save Narrated PowerPoint Slides as a Web Page



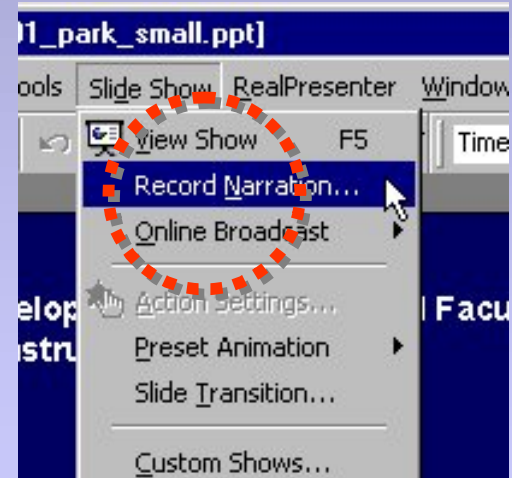
Full Screen Slide Show

Pause/Play Narration

2. Convert Narrated PowerPoint Slides to a QuickTime Movie

Procedure

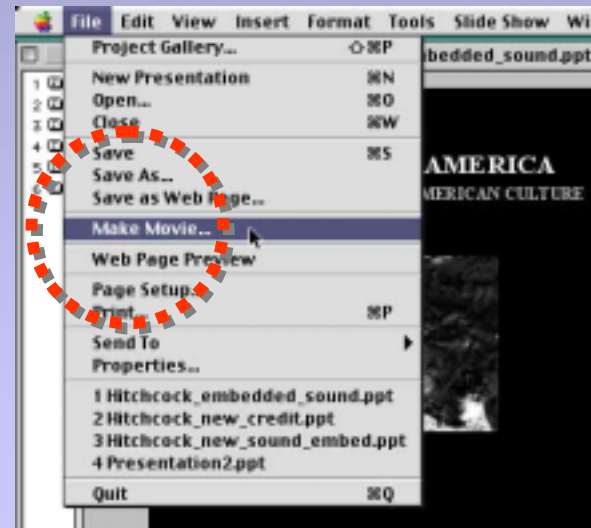
1. Record narration to PowerPoint slides
2. Convert narrated PowerPoint slides to QuickTime movie
3. Upload to a Web server
4. Internet Explorer or Netscape
5. View with QuickTime Player



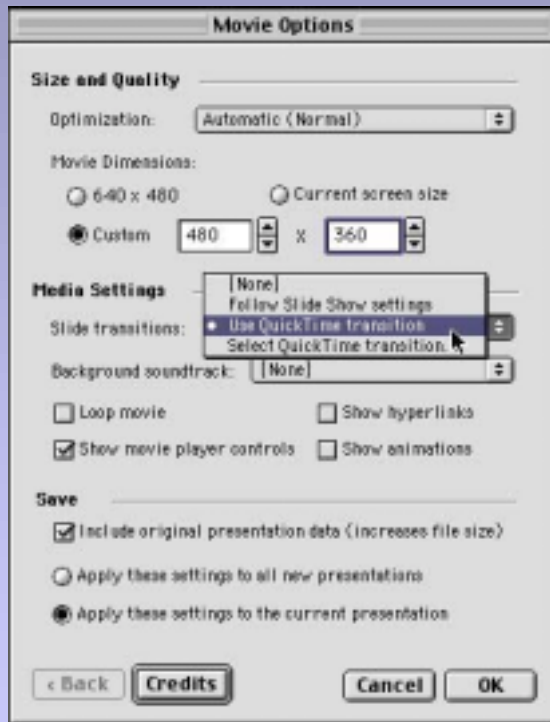
2. Convert Narrated PowerPoint Slides to a QuickTime Movie

Procedure

1. Record narration to PowerPoint slides
2. Convert narrated PowerPoint slides to QuickTime movie
3. Upload to a Web server
4. Internet Explorer or Netscape
5. View with QuickTime Player
 - Easy to create, streaming audio
 - Transition between slides
 - Available only for Macintosh



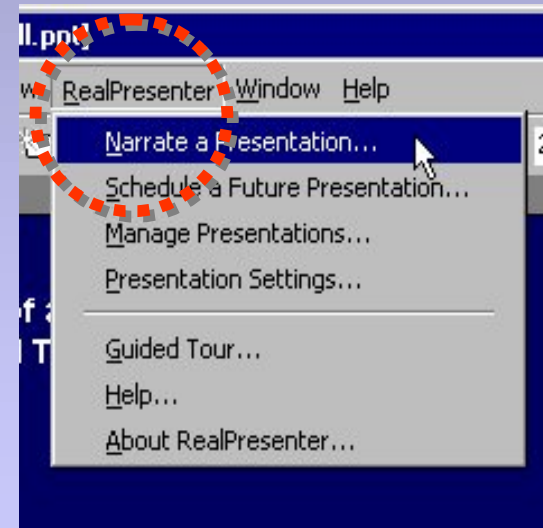
2. Convert Narrated PowerPoint Slides to a QuickTime Movie



3. Create Narrated PowerPoint Slides with RealPresenter

Procedure

1. Record narration to PowerPoint slides with RealPresenter
2. Upload to a Web server (RealServer)
3. Internet Explorer or Netscape
4. View with RealPlayer (free)



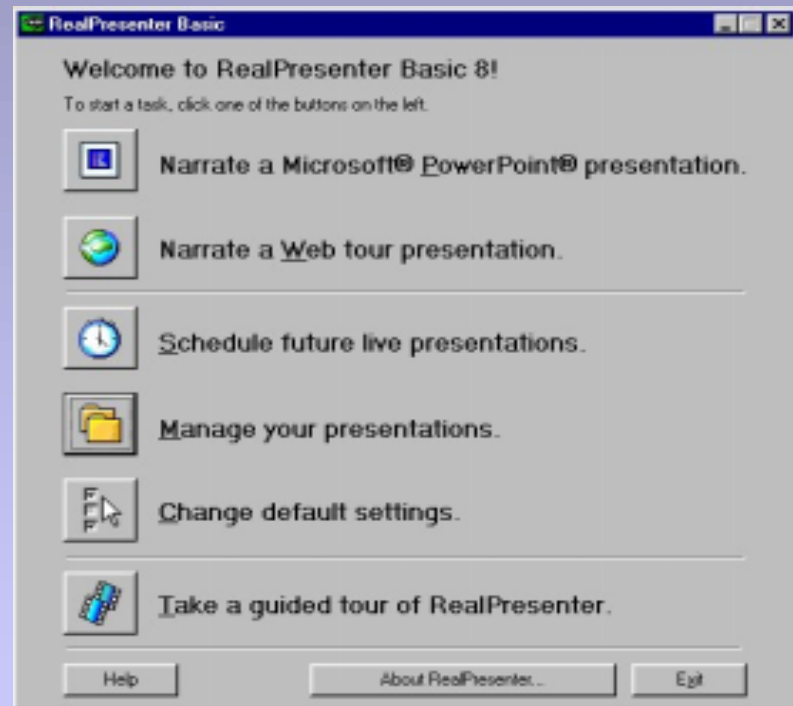
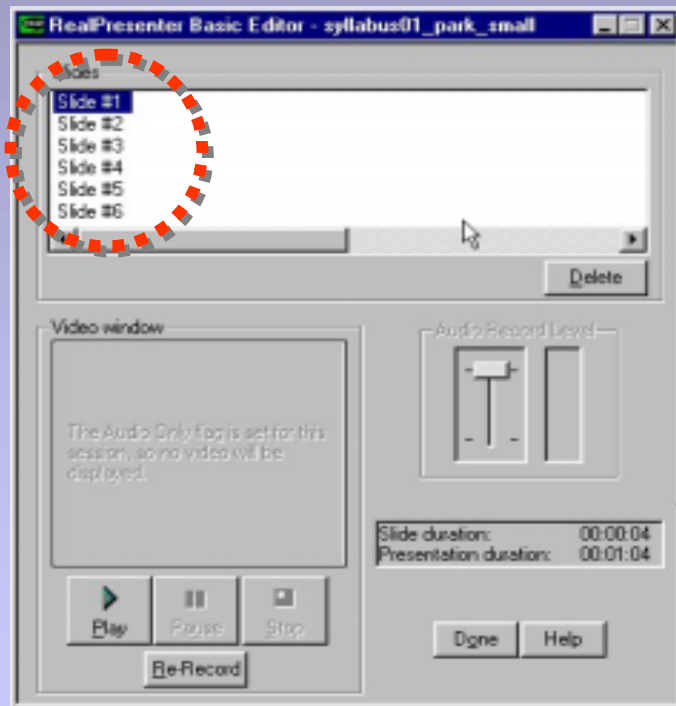
3. Create Narrated PowerPoint Slides with RealPresenter

Procedure

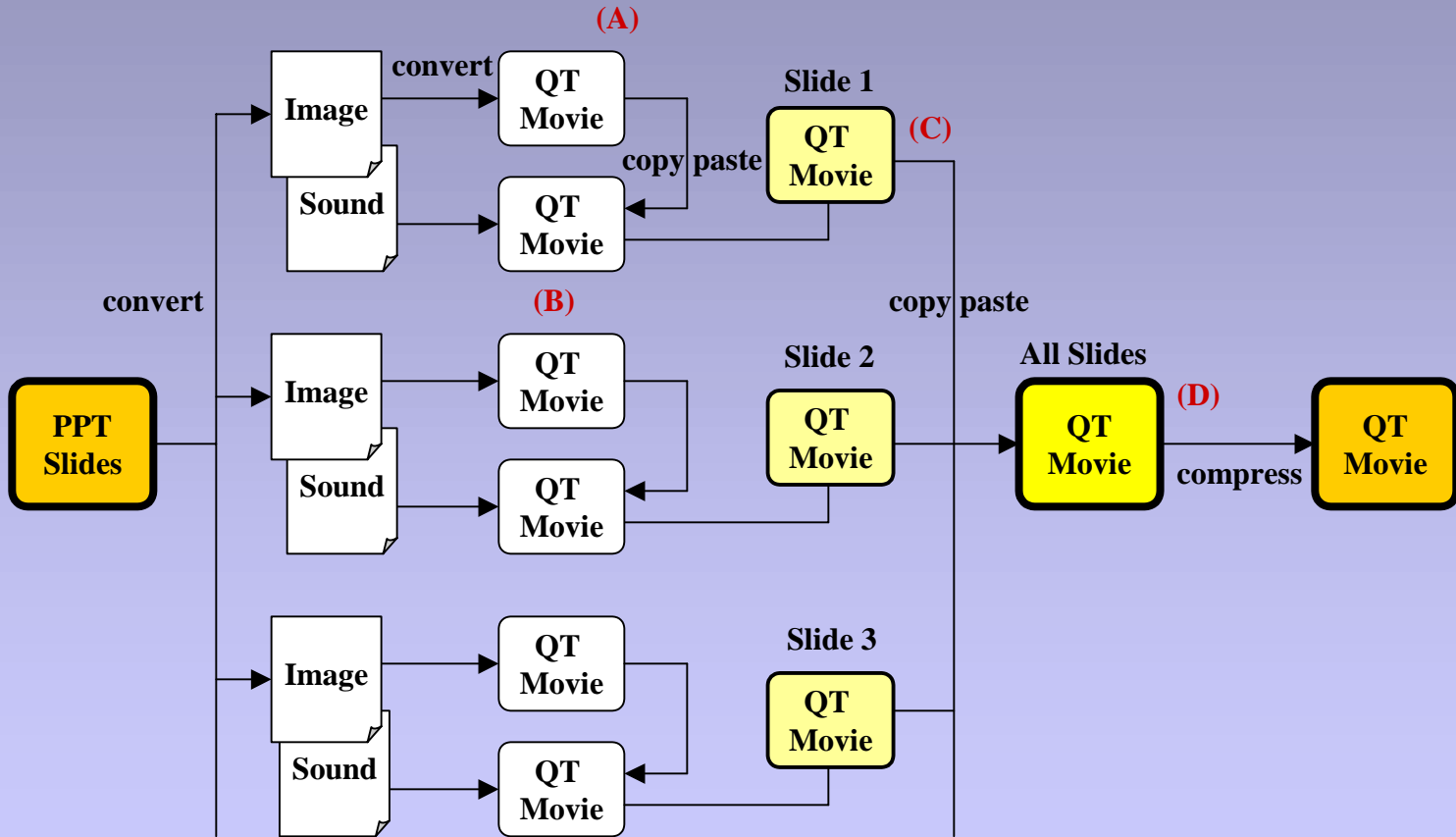
1. Record narration to PowerPoint slides with RealPresenter
 2. Upload to a Web server (RealServer)
 3. Internet Explorer or Netscape
 4. View with RealPlayer (free)
- Easy to create, streaming audio
 - Able to edit narration
 - Requires RealPresenter
 - Needs RealServer for streaming



3. Create Narrated PowerPoint Slides with RealPresenter



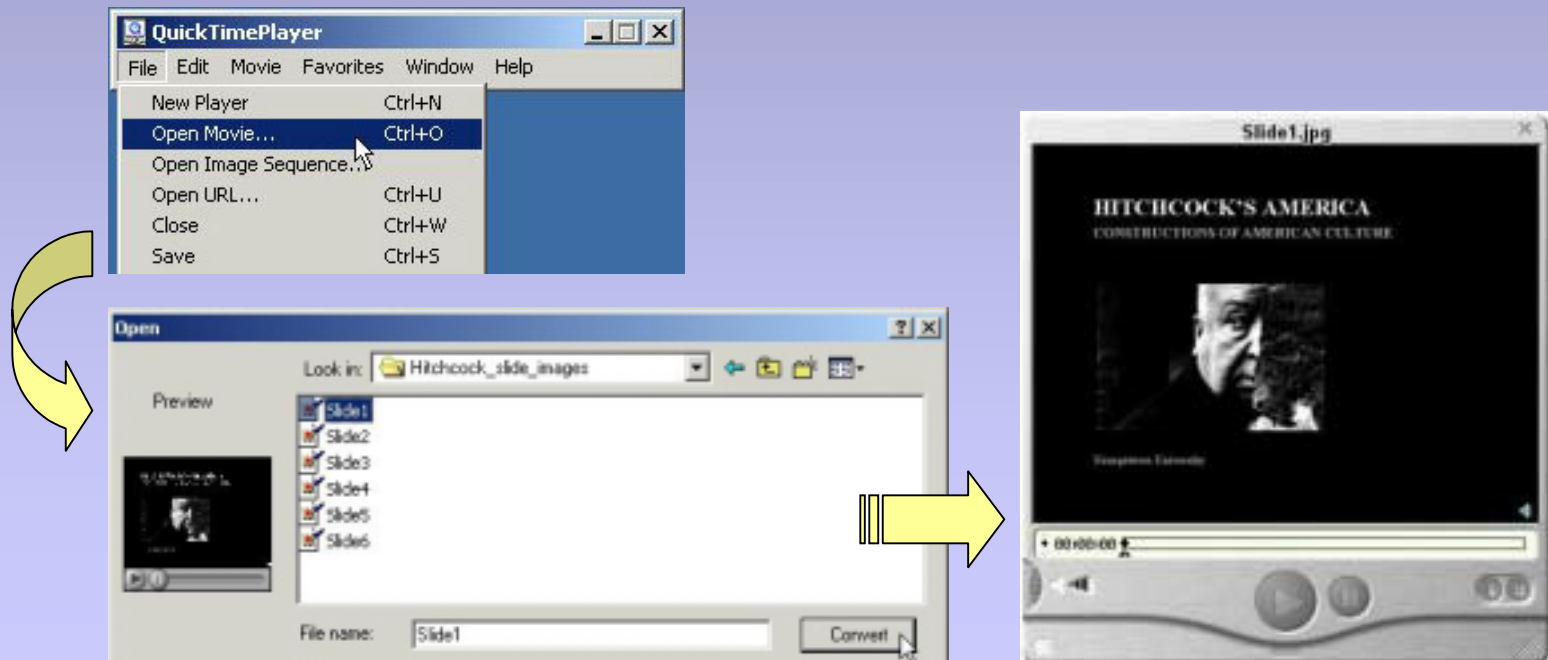
4. Create a QuickTime Movie with Image and Sound Files



4. Create a QuickTime Movie with Image and Sound Files

Procedure

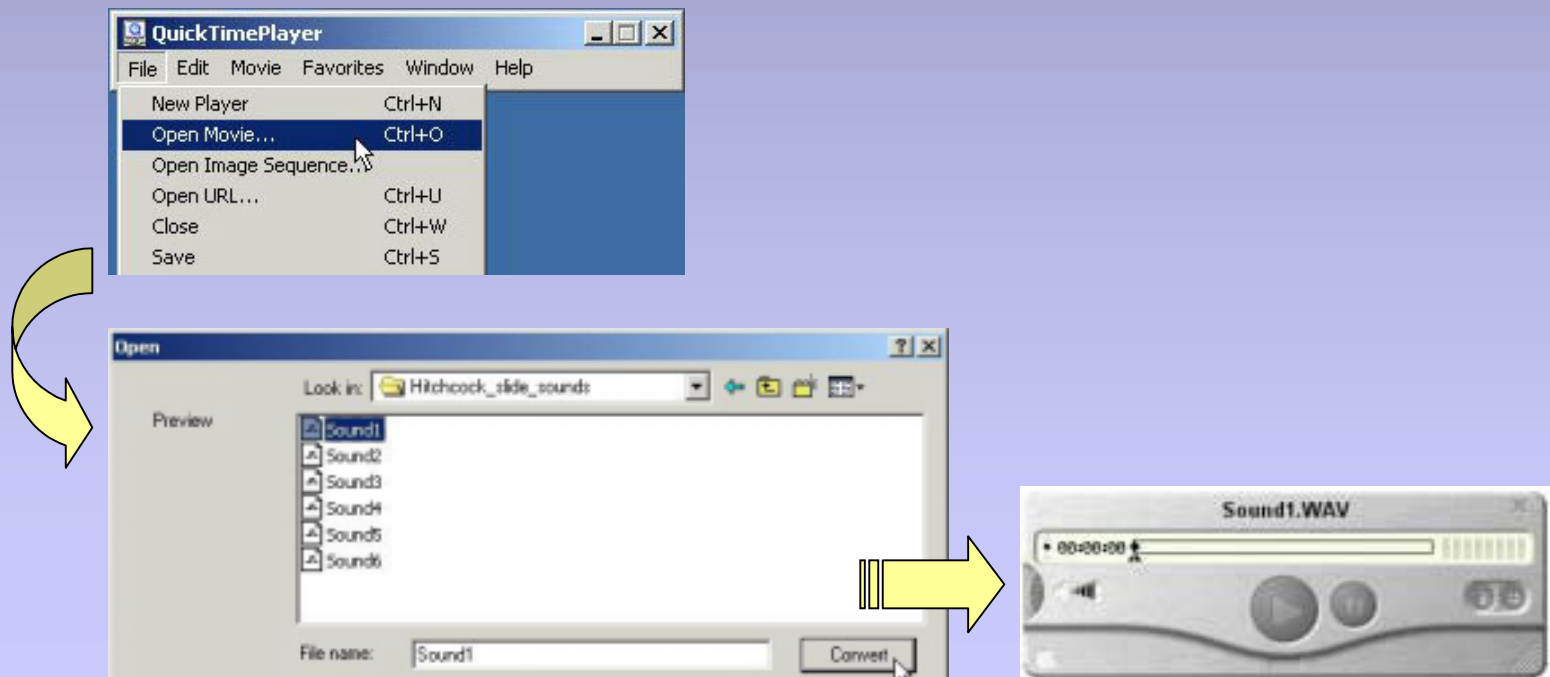
1. Convert PowerPoint slides to image files and convert them to QuickTime movies (A)



4. Create a QuickTime Movie with Image and Sound Files

Procedure

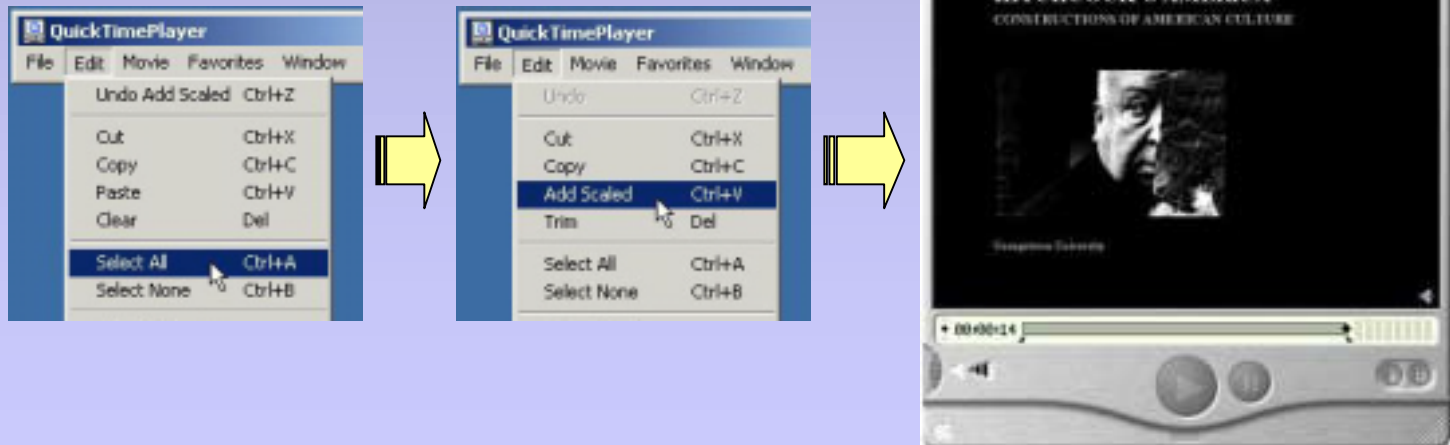
2. Make narration files and convert them to QuickTime movies (B)



4. Create a QuickTime Movie with Image and Sound Files

Procedure

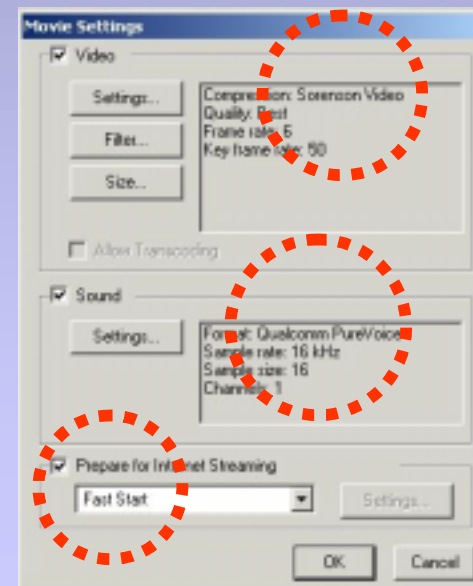
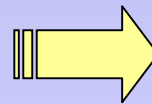
3. Copy and paste a movie (A) with a slide image to a movie (B) with a narration
3. Choose **Select All > Add Scaled** in the Edit Menu to make a QuickTime movie (C) for a slide



4. Create a QuickTime Movie with Image and Sound Files

Procedure

4. Combine all the movies (C) to make a QuickTime movie (D) for all slides
5. Compress the QuickTime movie to decrease its file size



4. Create a QuickTime Movie with Image and Sound Files

- Available for PC and possible to edit narration
- Able to get smaller file size by compression
- Streaming audio/video (Fast Start)
- **Harder to use than the other methods**



Summary

1. Convert to **Web page**

- **Pros:** Easy to create, no additional work
- **Cons:** Web browser compatibility issue, big audio file size (WAV)

2. Convert to a **QuickTime** movie

- **Pros:** Easy to create, streaming audio, transition between slides
- **Cons:** Available only for Macintosh

3. Create a **RealPlayer** Movie with RealPresenter

- **Pros:** Easy to create, streaming audio, able to edit narration
- **Cons:** Requires RealPresenter, needs RealServer for streaming

4. Create a **QuickTime** movie with image and sound files

- **Pros:** Available for PC, able to edit narration, smaller file size
- **Cons:** Harder to use than the other methods

Why use video on the web?

- Learning resource for faculty, students and staff in all academic fields.
- Capture, editing, and exporting of video is accessible in majority of media centers on University campus.
- Presentation alternative to VCR playback & general audio-visual set-up.
- Delivery on the Web in multiple formats.

What Can We Use Online Video for?

- Presentation of lectures and events
- Faculty presentations
- Exams and Quizzes
- Student projects
- Library orientation training session
- Online course materials
- Online film festivals



Online Video Basics

- Analog & Digital
- Frame rates & resolutions
- Compression and Codecs
- File size, data rate, & storage space
- Why Adobe Premiere?
- Why Pinnacle DV500?



How do we put video on the Web?

1. Tools we use:
 - **PC running Windows 2000**
 - **Pinnacle Systems DV500 Plus™ Capture card w/ Firewire cable**
 - **Adobe Premiere 6.0™**
2. Capture analog or digital video into computer. There is a popular misconception that Adobe Premiere is difficult to use.
3. Save the captured video clips and we're ready to export!
4. Main problems:
 - **File size**
 - **Storage space**

Exporting Video for the Web

1. Export video project as a **QuickTime** file:
 - a. Custom QuickTime export
 - b. Using Save for Web > QuickTime Progressive Download
 - c. Using Save for Web > Settings Wizard
2. Export video project as a **Windows Media** file
3. Export video project as a **RealMedia** file

1a. Custom QuickTime Export

Procedure

1. Capture video and save file in **.AVI (uncompressed)** format
2. Edit clips and build project in Premiere timeline
3. **Export Timeline > Movie**



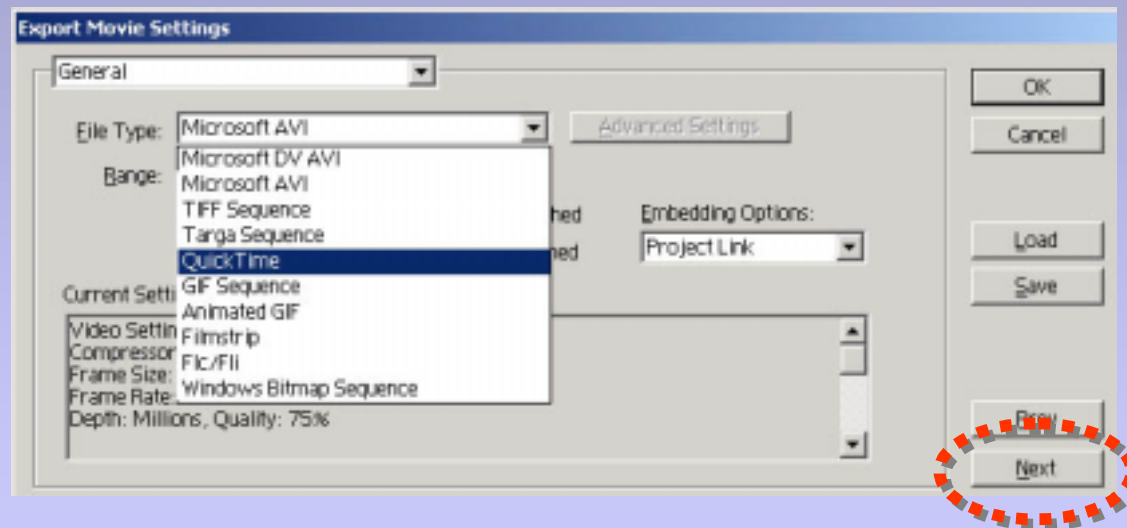
4. Click on **Settings**



1a. Custom QuickTime Export

Procedure

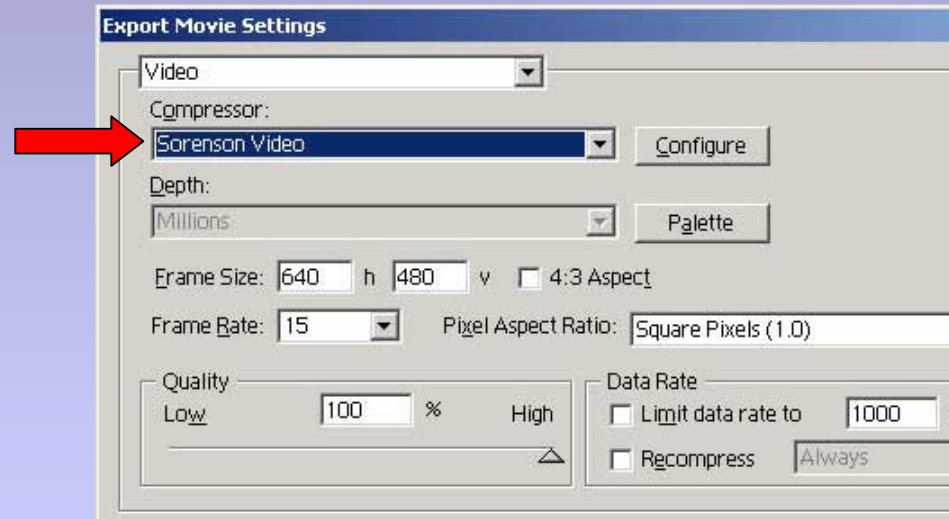
5. Select **QuickTime** as File Type, then click **Next**



1a. Custom QuickTime Export

Procedure

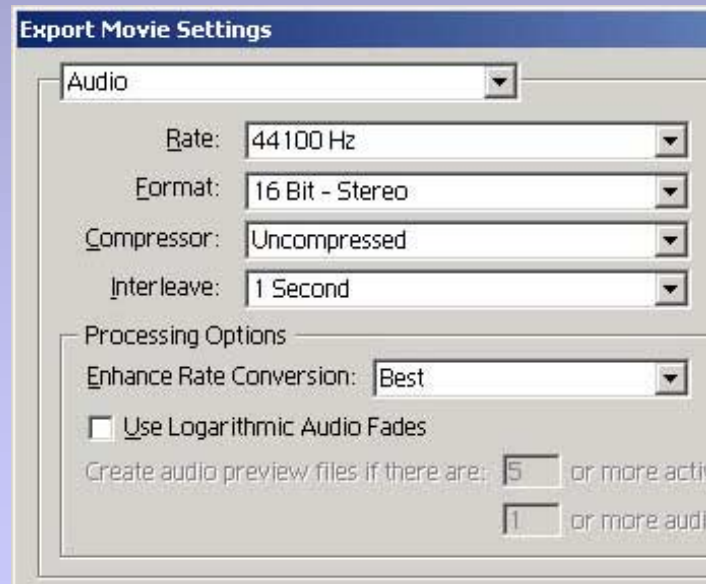
6. Select **Sorenson Video** as compressor, select frame size, frame rate, and quality level, then click **Next**



1a. Custom QuickTime Export

Procedure

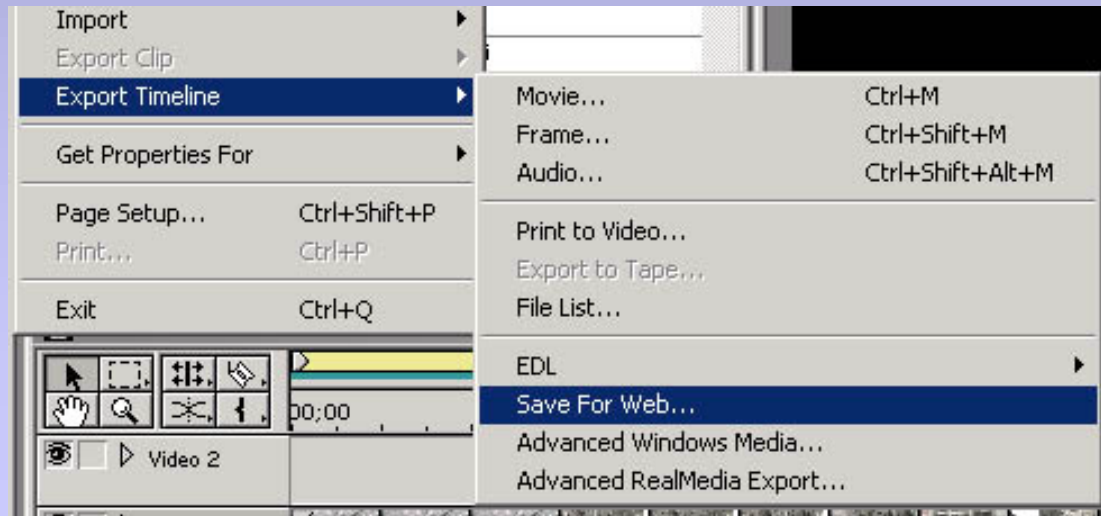
7. Select **Audio** settings, and click OK to begin export.



1b. Save for Web > QuickTime Progressive Download

Procedure

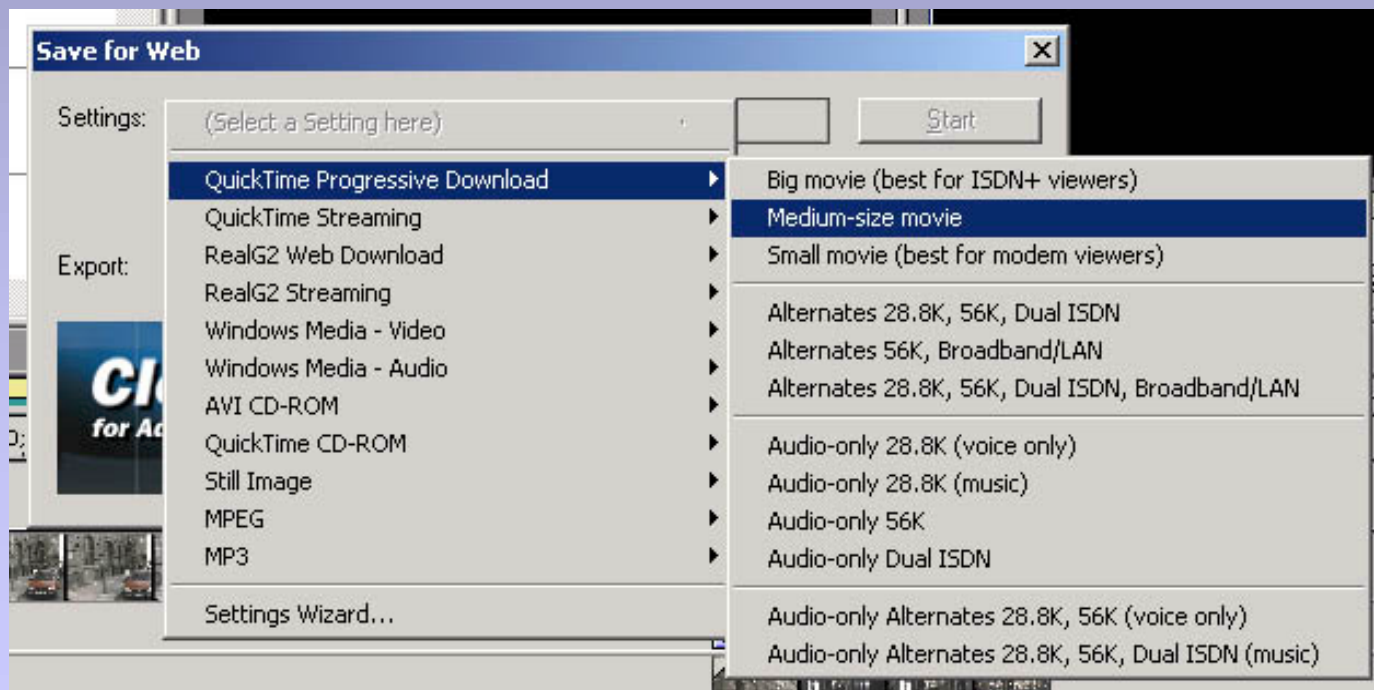
1. Capture video and save file in **.AVI (uncompressed)** format
2. Edit clips and build project in Premiere timeline
3. **Export Timeline > Save For Web**



1b. Save for Web > QuickTime Progressive Download

Procedure

4. Select export setting within Terran Cleaner™ plug-in.



1b. Save for Web > QuickTime Progressive Download

Procedure

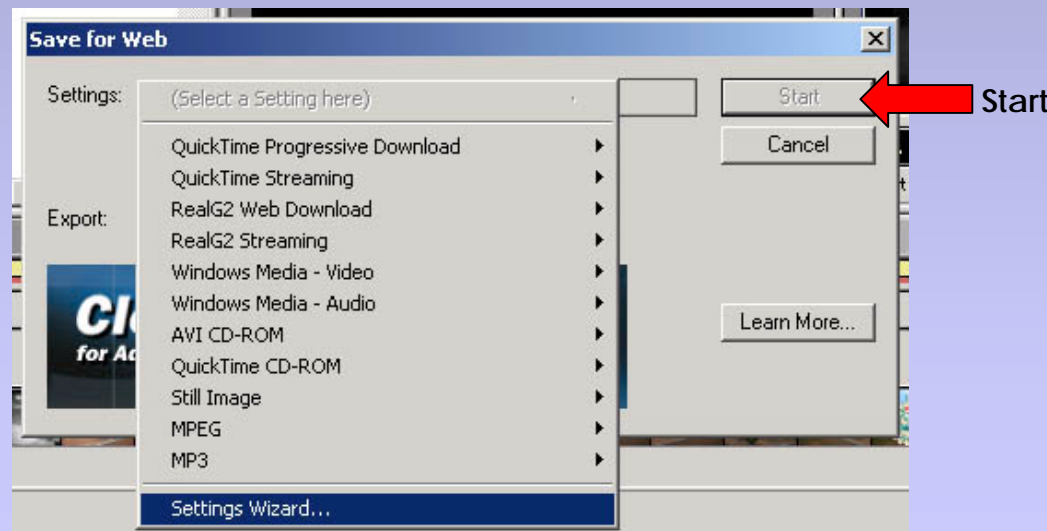
5. Click **start** button in Cleaner dialog box. Video project will begin encoding and compressing.
6. Two files will be saved: **QuickTime movie** file and **HTML** file with video clip embedded.



1c. Save for Web > Settings Wizard

Procedure

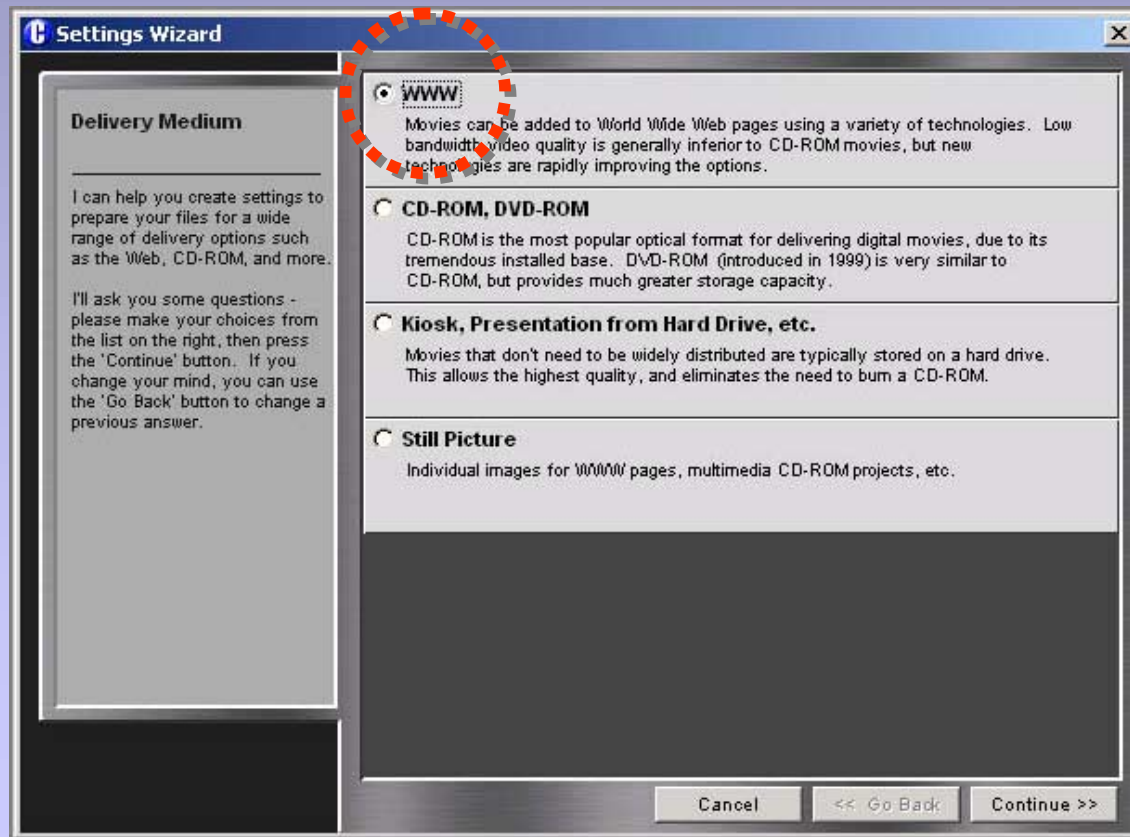
1. Capture video and save file in **.AVI (uncompressed)** format
2. Edit clips and build project in Premiere timeline
3. **Export Timeline > Save For Web**
4. Select **Settings Wizard**, and click the **Start** button



1c. Save for Web > Settings Wizard

Procedure

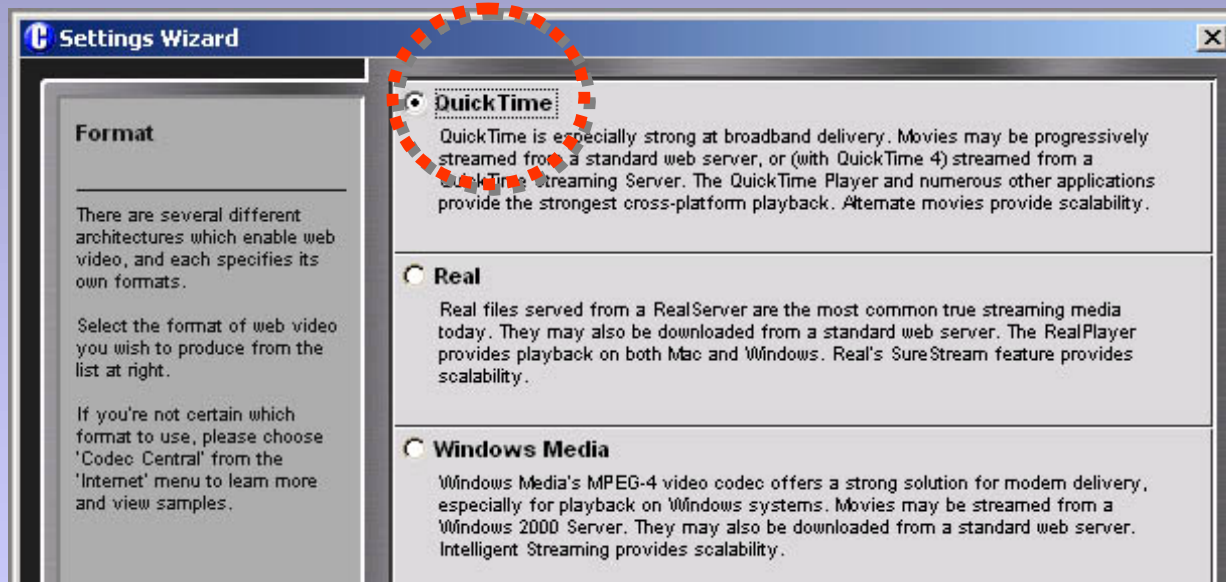
5. Select **WWW** as the Delivery Medium. Click **Continue >>**



1c. Save for Web > Settings Wizard

Procedure

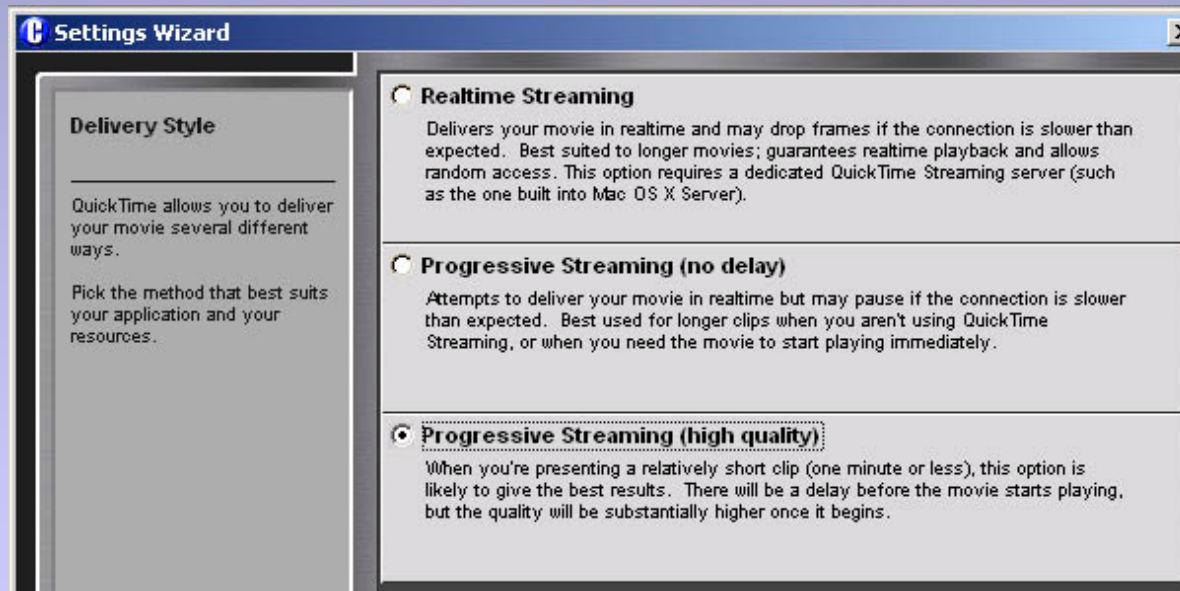
6. Select **QuickTime** as the Format. Click **Continue >>**



1c. Save for Web > Settings Wizard

Procedure

7. Select **Progressive Streaming (high quality)** as the Delivery style. Click **Continue >>**

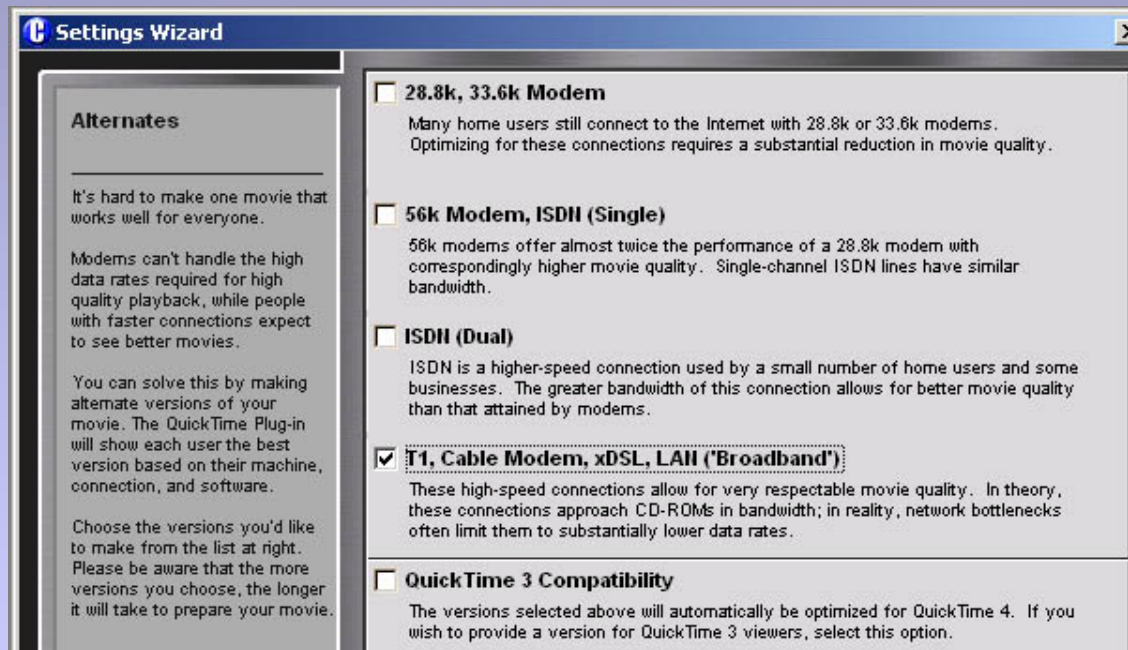


1c. Save for Web > Settings Wizard

Procedure

8. Select one or alternate **Connection speeds**. Click **Continue**

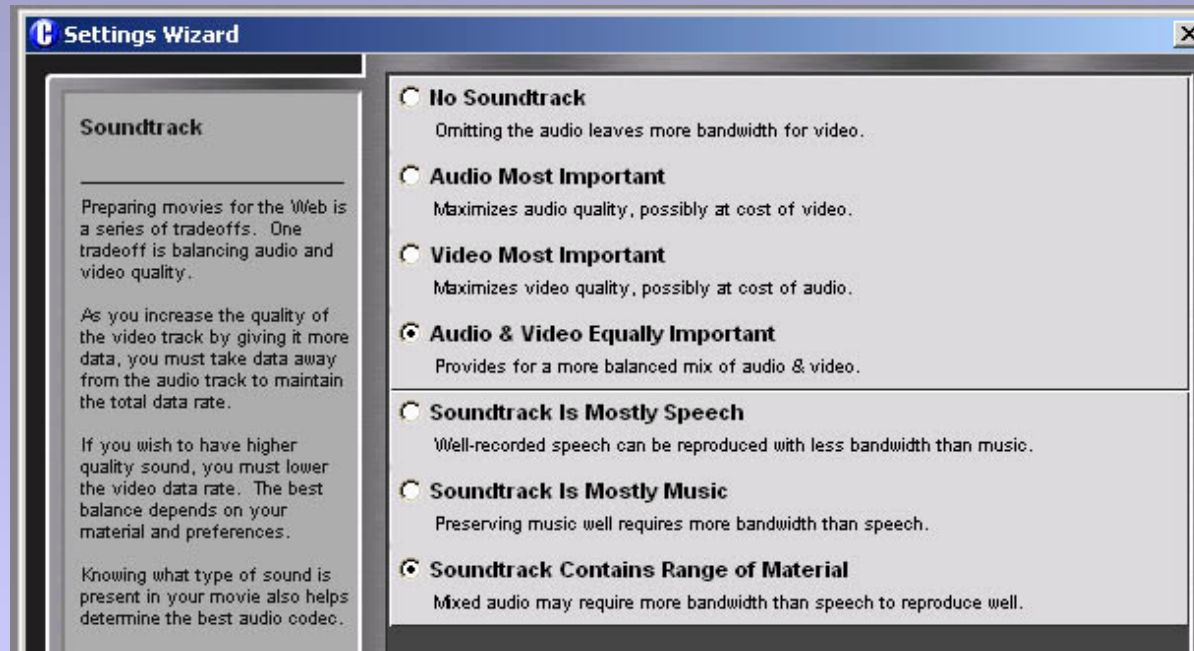
>>



1c. Save for Web > Settings Wizard

Procedure

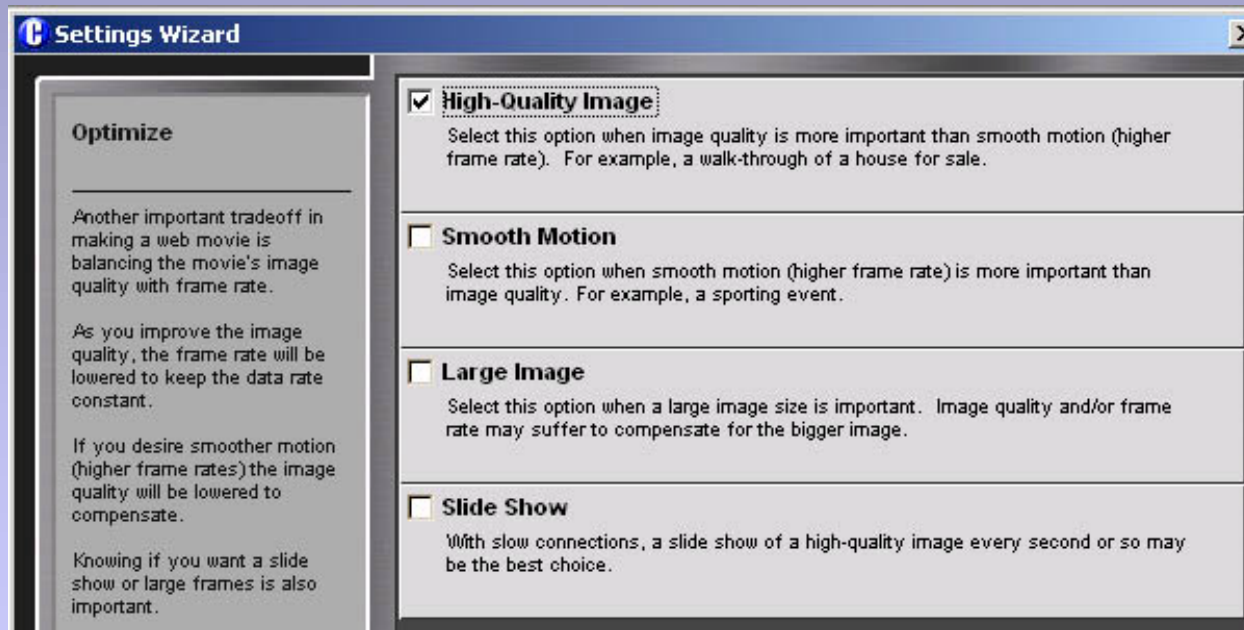
9. Select **Soundtrack** settings. Click **Continue >>**



1c. Save for Web > Settings Wizard

Procedure

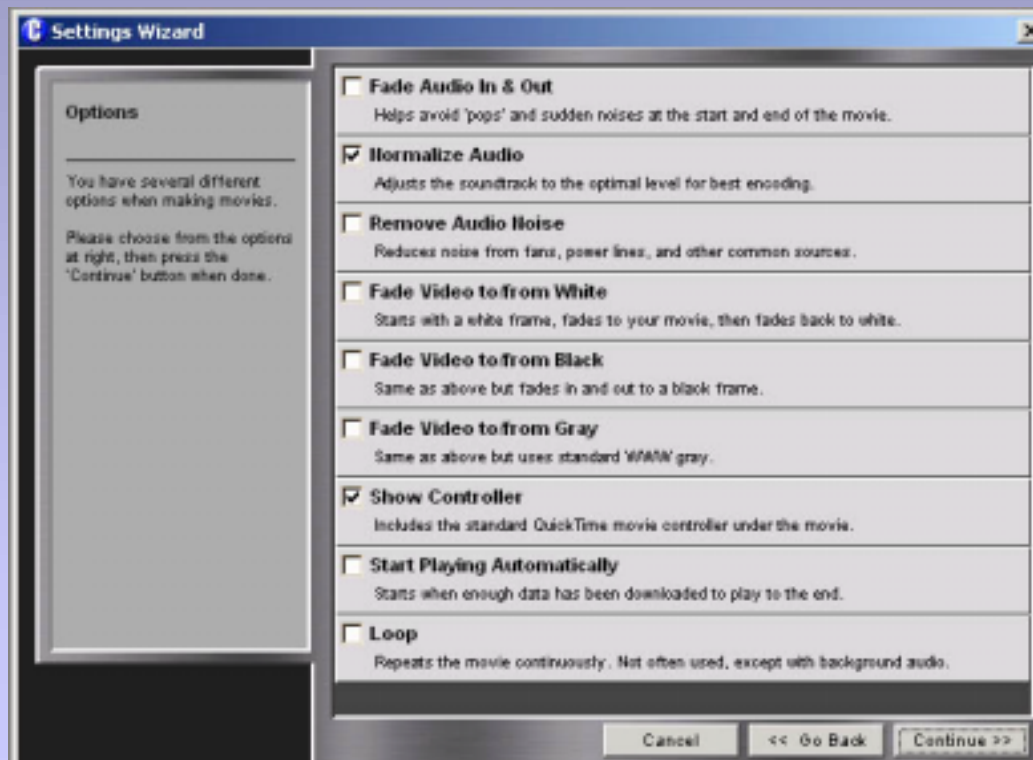
10. Select **Optimization** settings. Click **Continue** >>



1c. Save for Web > Settings Wizard

Procedure

11. Select **Options** settings. Click **Continue** >>



1c. Save for Web > Settings Wizard

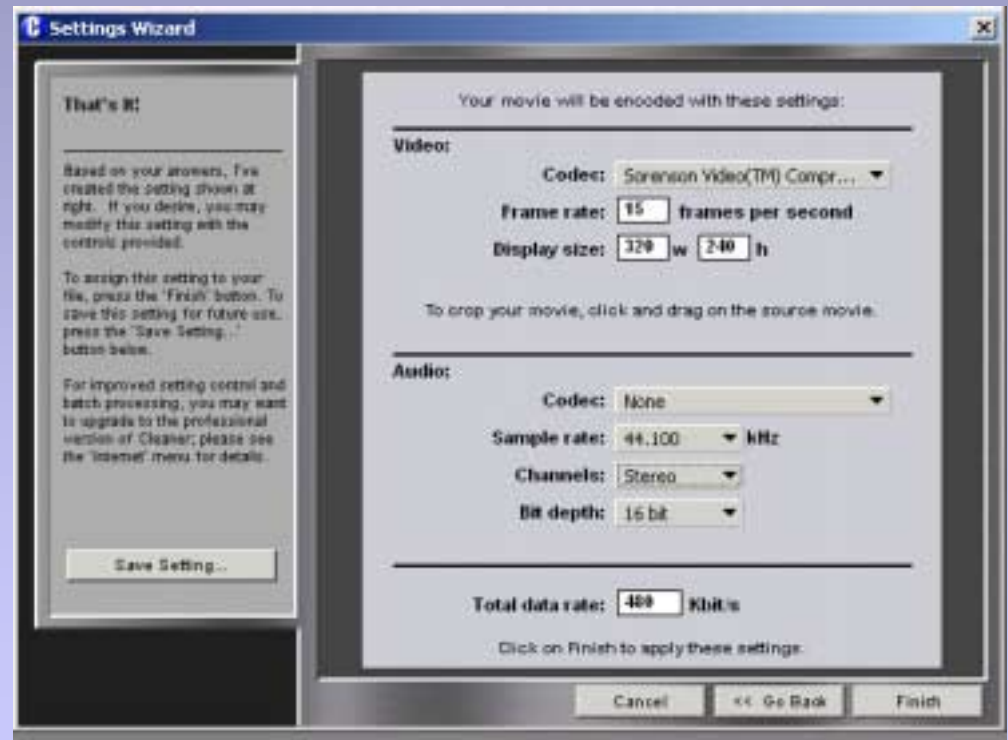
Procedure

11. Select **Video Codec**, **Frame rate**, and **Display size** from video settings.

Click **Finish**

12. Select **Audio Codec**, **sample rate**, **channels**, & **Bit depth**

13. Click **Finish**. Video project will begin encoding and compressing.



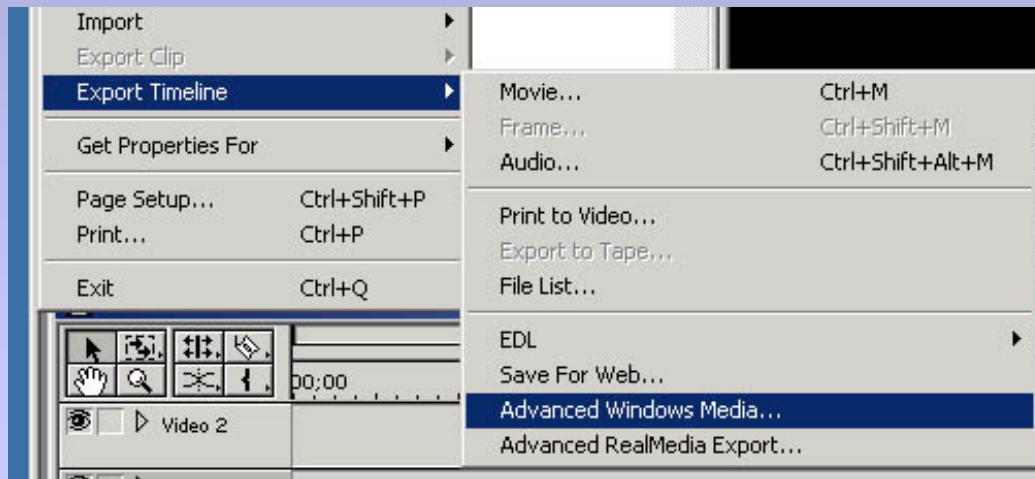
1. Save and Embed Video Project as QuickTime file

- Easy to create / No additional work
- Multiple video & audio compression settings available in easy-to-navigate menu
- Multiple Codecs
- Results in smaller file size
- Video file and web page w/embedded file produced
- Quicktime file will play in both IE and Netscape
- Export time lengthens as project size increases
- Requires Quicktime Player (for .mov file)

2. Export Video Project as Windows Media file

Procedure

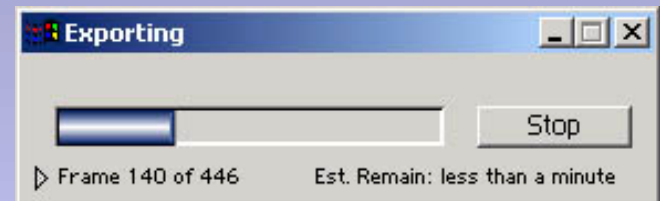
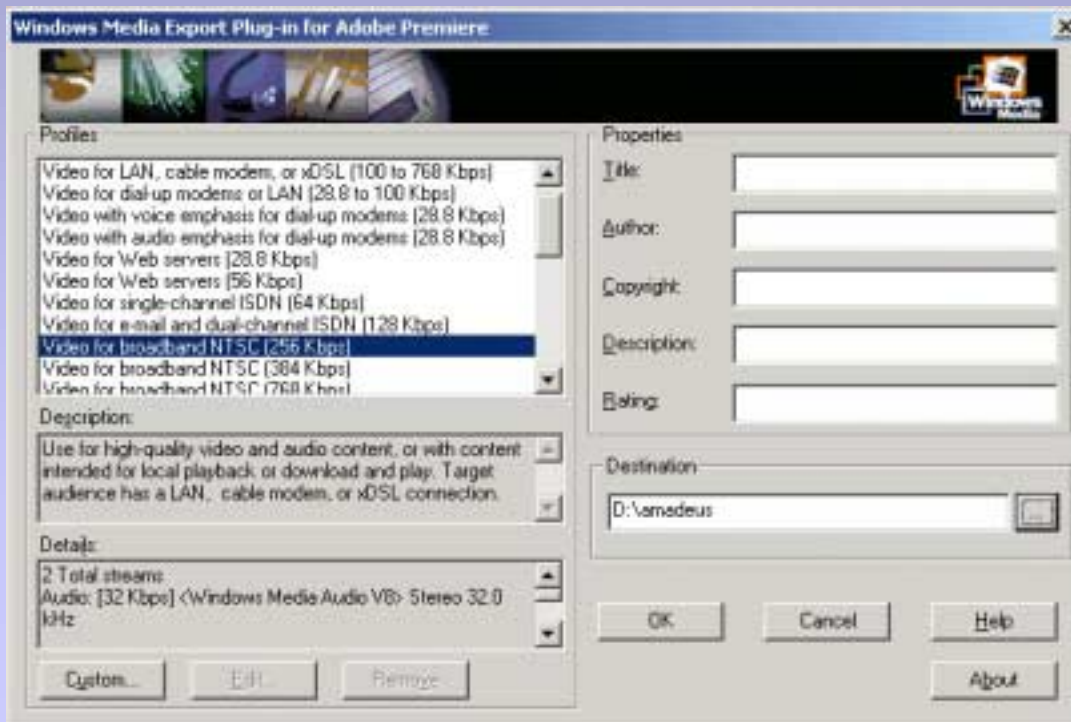
1. Capture video and save file in **.AVI (uncompressed)** format
2. Edit clips and build project in Premiere timeline
3. **Export Timeline > Advanced Windows Media**



2. Export Video Project as Windows Media file

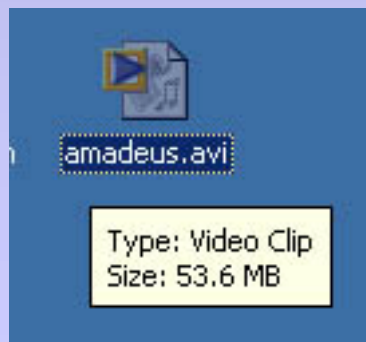
Procedure

4. Select export settings and destination drive in plug-in dialog box. Click **OK** button.



2. Export Video Project as Windows Media file

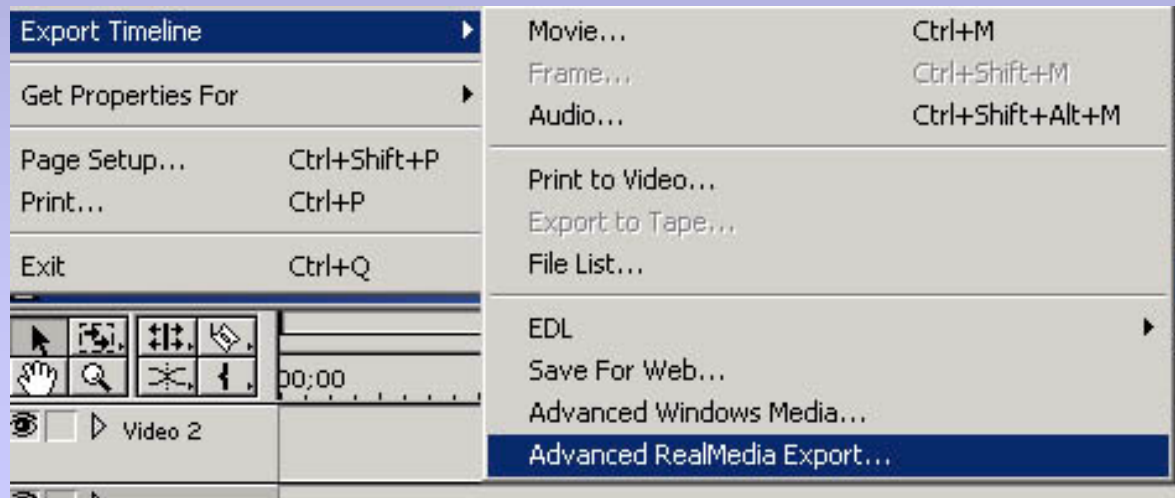
- Easy to create, no additional work
- Multiple video & audio compression settings available in easy-to-navigate menu. Customization available.
- Results in smaller file size
- Windows media file produced
- Requires Windows Media player
- Internet Explorer only
- Export time lengthens as project size increases



3. Export Video Project as Real Media file

Procedure

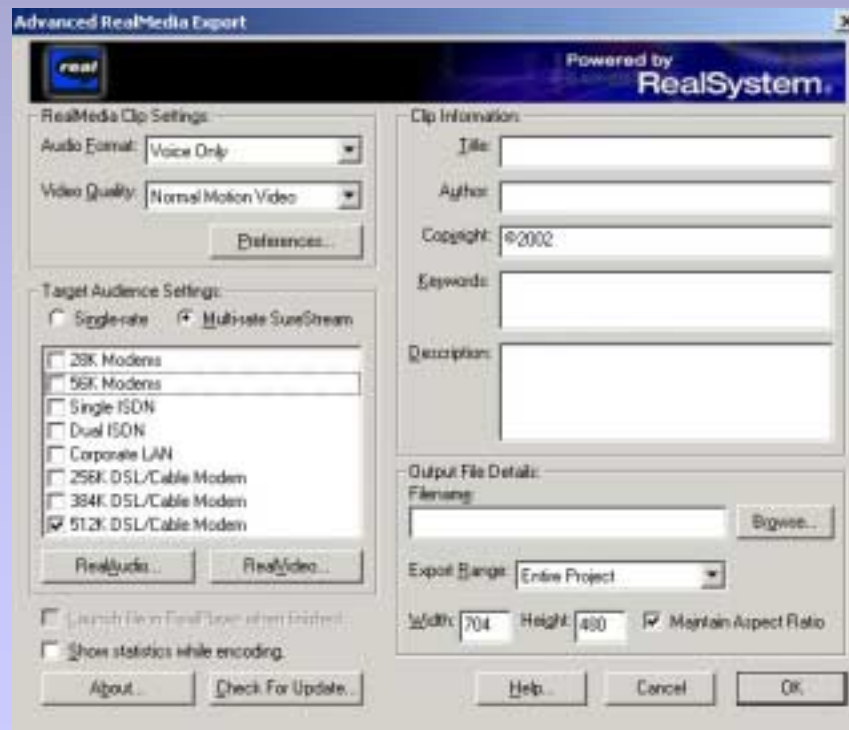
1. Capture video and save file in **.AVI** format
2. Edit clips and build project in Premiere timeline
3. **Export Timeline > Advanced RealMedia Export**



3. Export Video Project as Real Media file

Procedure

4. Select export settings and destination drive in plug-in dialog box. Click **OK** button.



3. Export Video Project as Real Media file

- Easy to create, no additional work
- Multiple video / audio compression settings available in easy-to-navigate menu
- Results in small file size
- Real Media file produced, compatible with Windows Media Player
- IE or Netscape
- Export time lengthens as project size increases
- Requires Real One™

Summary

1. Save and embed video project as **QuickTime** file
 - **Pros:** Easy to create, multiple compression settings, small file size
 - **Cons:** Requires Quicktime player
2. Export video project as a **Windows Media** file
 - **Pros:** Easy to create, multiple compression settings, small file size
 - **Cons:** Requires Windows Media player, Internet Explorer
3. Export video project as a **Real Media** file
 - **Pros:** Easy to create, multiple compression settings, small file size, can be played in both RealMedia and Windows Media
 - **Cons:** Requires Real One ^(TM) player

Examples & Resources

Examples and resources for this workshop can be found in the Georgetown University's Blackboard course created for the 2002 TLTSI thematic seminar.

1. Go to **<https://campus.georgetown.edu/>**
2. Click on the Login button.
3. On the next page, click on the Preview button.
4. On the Welcome Guest page, click on the Courses tab.
5. Type "XXTLTSI-2002" in the Course Search box.
6. On the Course Catalog page, click on the TLTSI Thematic Seminar link.
7. Click on the Course Documents button.
8. Examples and tutorials can be found in the Session #1: Audio folder and the Session #2: Video folder.
9. Useful links can be found in the Resources section.

This PowerPoint presentation is available at:

http://www.georgetown.edu/users/tj3/sol_files/frame.htm