ideaTools

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Integrating Sign Language Video with Web Content to Create Online Video Tutorials

Paper presented at the
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Presentation Agenda

I. Desktop Video System

II. Sign Language Video Production

III. IdeaTools Multimedia Applications

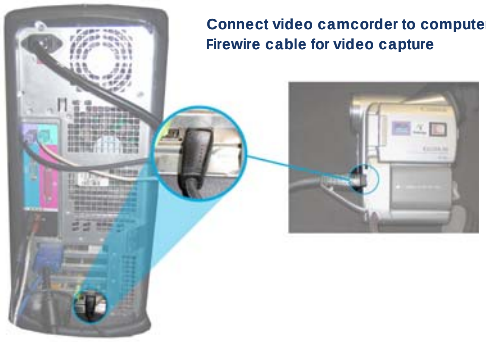
IV. Sample Tutorial Demos

Desktop Video System

- **Hardware**
  - Personal Computer
  - Digital Video Camcorder
  - Firewire adapter card & cable
- **Software**
  - Microsoft Windows XP
  - Windows Movie Maker

Current Desktop Video Technology

Hardware Setup



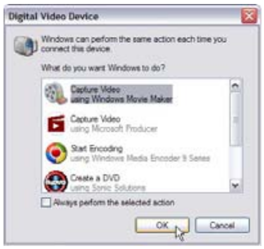
Connect video camcorder to computer using Firewire cable for video capture

Current Desktop Video Technology

Software

Capture Video

Windows Movie Maker – free with Windows XP



Digital Video Device

Windows can perform the same action each time you connect this device.

What do you want Windows to do?

Capture Video
using Windows Movie Maker
Capture Video
using Microsoft Producer
Start Encoding
using Windows Media Encoder 9 Series
Create a DVD
using Sonic Solutions

☐ Always perform the selected action

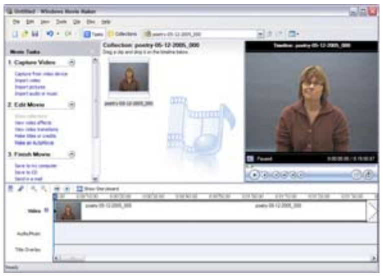
OK
Cancel

Current Desktop Video Technology

Software

Encode Video for the Web

Windows Movie Maker – free with Windows XP



Sign Language Video Production

- **Preproduction**
  - Self-taping
  - Working with interpreters
- **Postproduction**

Creating Sign Language Video

Preproduction

- **Self-taping**
  - Set up camera
  - Record yourself as you sign
- **Working with Interpreters**
  - Develop script
  - Record audio on computer
  - Save audio recording to CD-ROM; give to interpreter for rehearsal
  - Interpreters set up camera and record “interpreting” session
  - Can transcribe audio to use as captions

Creating Sign Language Video

Postproduction

- **Capture video from camera to computer**
- **Compress captured video**
- **Edit video**
- **Splice audio** (if applicable)
- **Encode video for the web**
- **Upload video to IdeaTools server**

IdeaTools Multimedia Applications

- **Captioning Tool**
  - Create IdeaTools captions for video
- **Presentation Builder**
  - Create IdeaTools presentation slides
- **IdeaTools Studio**
  - Create interactive tutorials from video & IdeaTools presentation slides

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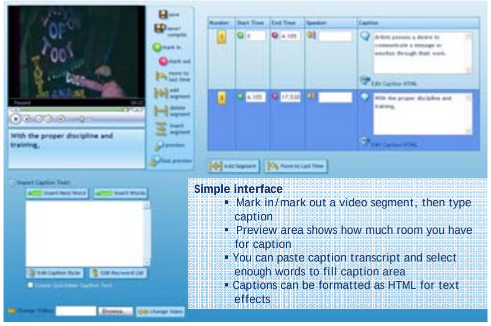
Multimedia Authoring Tools

Captioning Tool



With the proper discipline and training.

Simple interface

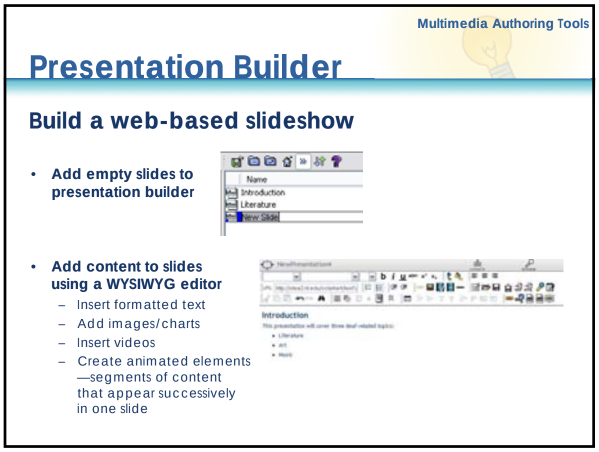
- Mark in/mark out a video segment, then type caption
- Preview area shows how much room you have for caption
- You can paste caption transcript and select enough words to fill caption area
- Captions can be formatted as HTML for text effects

Multimedia Authoring Tools

Captioning Tool

- **Project compiled for the web as captioned video**
  - Captions can be edited at any time and recompiled
  - Captions automatically synchronized with Windows videos (WMV)
  - Captions can be exported for use with QuickTime video

Now, consequences for cheaters, earlier we showed you how some



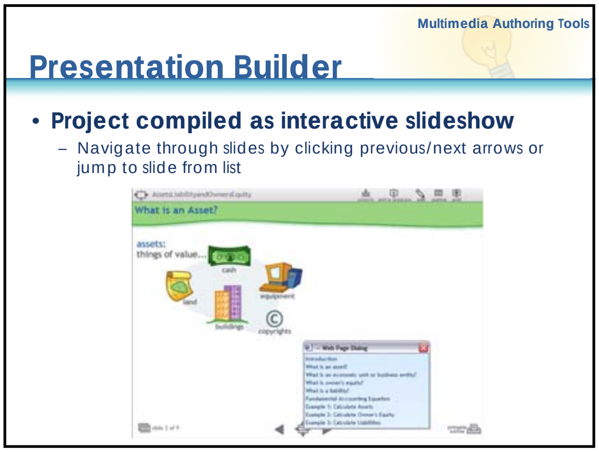
Multimedia Authoring Tools

Presentation Builder

Build a web-based slideshow

- **Add empty slides to presentation builder**
- **Add content to slides using a WYSIWYG editor**
  - Insert formatted text
  - Add images/charts
  - Insert videos
  - Create animated elements—segments of content that appear successively in one slide

Name
Introduction
Literature
New Slide
Introduction

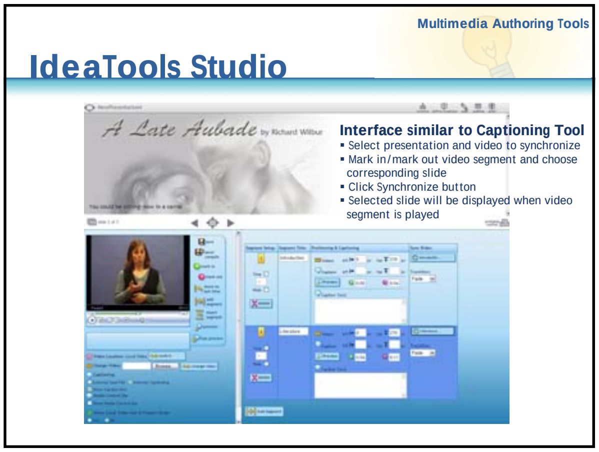


Multimedia Authoring Tools

Presentation Builder

- **Project compiled as interactive slideshow**
  - Navigate through slides by clicking previous/next arrows or jump to slide from list

What is an Asset?
assets:
things of value...
cash
land
equipment
buildings
copyrights
Web Page Dialog



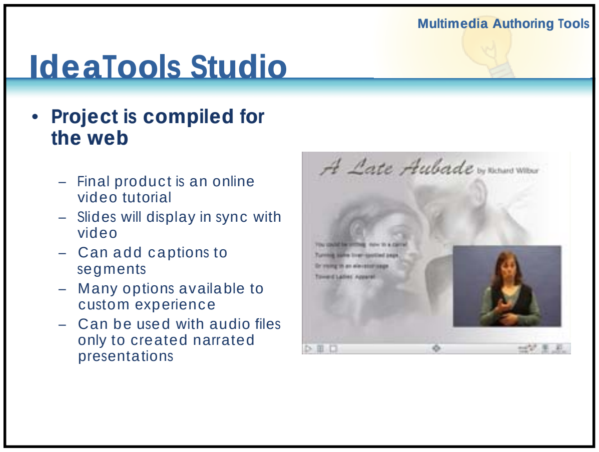
Multimedia Authoring Tools

IdeaTools Studio

Interface similar to Captioning Tool

- Select presentation and video to synchronize
- Mark in/mark out video segment and choose corresponding slide
- Click Synchronize button
- Selected slide will be displayed when video segment is played

A Late Aubade by Richard Wilbur

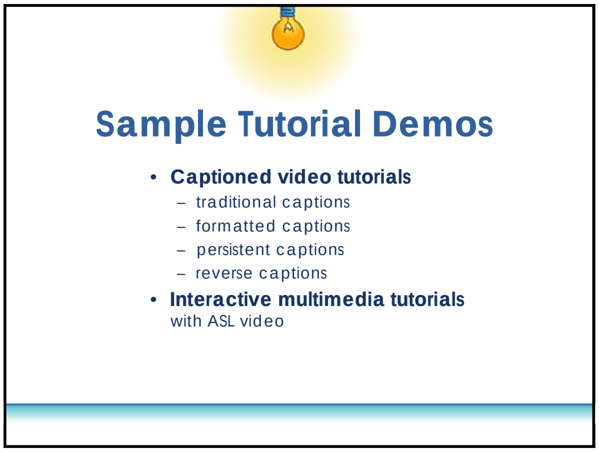


Multimedia Authoring Tools

IdeaTools Studio

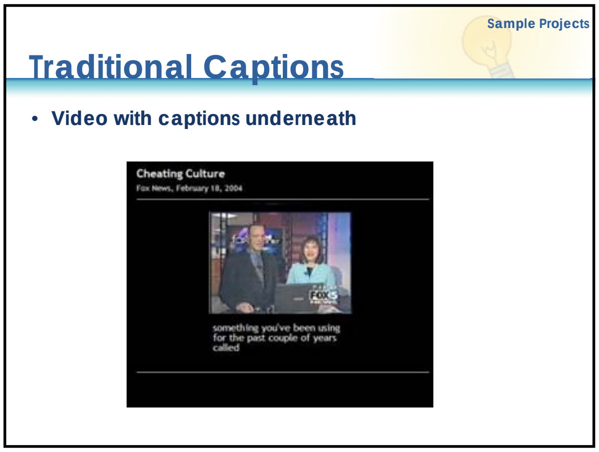
- **Project is compiled for the web**
  - Final product is an online video tutorial
  - Slides will display in sync with video
  - Can add captions to segments
  - Many options available to custom experience
  - Can be used with audio files only to created narrated presentations

A Late Aubade by Richard Wilbur



Sample Tutorial Demos

- **Captioned video tutorials**
  - traditional captions
  - formatted captions
  - persistent captions
  - reverse captions
- **Interactive multimedia tutorials** with ASL video



Sample Projects

Traditional Captions

- **Video with captions underneath**

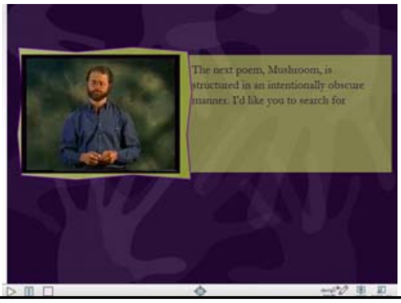
Cheating Culture
Fox News, February 18, 2004

something you've been using
for the past couple of years
called

Sample Projects

Formatted Captions

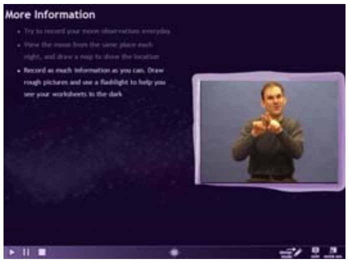
- **Captions can be formatted as HTML text and positioned anywhere**


The next poem, Mushroom, is structured in an intentionally obscure manner. I'd like you to search for

Sample Projects

Persistent Captions

- **Captions stay on screen throughout presentation**
  Easy for viewer to refer back

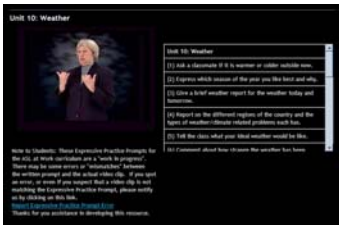

More Information

- Try to record your moon observations everyday
- View the moon from the same place each night, and draw a map to show the location
- Record as much information as you can. Draw rough pictures and use a flashlight to help you see your worksheets in the dark

Sample Projects

Reverse Captions

- **Captions act as links to video segments**
- **Result is similar to interactive DVD format**


Unit 10: Weather

Unit 10: Weather

(1) Ask a classmate if it is warmer or colder outside now.

(2) Express which season of the year you like best and why.

(3) Give a brief weather report for the weather today and tomorrow.

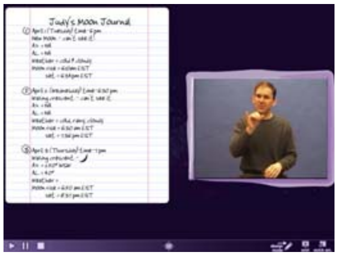
(4) Report on the different regions of the country and the types of weather/climate related problems each has.

(5) Tell the class what your ideal weather would be like.

Sample Projects

Interactive Multimedia Tutorials

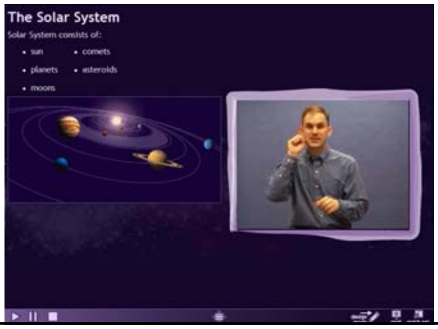
- Video segments can be synchronized with text, graphics, even other video to create interactive tutorials



Sample Projects

Interactive Multimedia Tutorials

- Learner can navigate to different segments


The Solar System

Solar System consists of:

- sun
- comets
- planets
- asteroids
- moons

Questions ?

Thank You!

- For more information, contact
  - Simon Ting, sktedr@rit.edu
  - Rose Marie Toscano, rmtnge@rit.edu
- To see more examples, visit
  - idea3.rit.edu/sktnmp/video