The Easy Method to Creating an Interactive Videodisc Presentation with the Apple II E System.

This guide presents step-by-step instructions for authoring interactive video lessons with the Apple IIe system. Software and hardware requirements are listed, and a glossary of terms and commands is included. Three sample pages demonstrating the data input process are appended. (GL)
The Easy Method
to creating an
Interactive Videodisc Presentation
with the
Apple II E System

Developed by

Aviva Adir
Coordinator Of Instructional Technologies

and

Stephanie Caravello-Hibbert
Assistant-Professor,
Astronomy Physical Science

Catonsville Community College
800 South Rolling Road
Baltimore County, Maryland 21228
## TABLE OF CONTENT

<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>List of Hardware and Software</td>
<td>2</td>
</tr>
<tr>
<td>Glossary of Terms and Commands</td>
<td>3</td>
</tr>
<tr>
<td>Writing a Lesson</td>
<td>4-6</td>
</tr>
<tr>
<td>Authoring a Lesson</td>
<td>7-9</td>
</tr>
<tr>
<td>Booting</td>
<td>10</td>
</tr>
<tr>
<td>In Case You Want to Stop</td>
<td>11</td>
</tr>
<tr>
<td>To Resume Authoring</td>
<td>12</td>
</tr>
<tr>
<td>To Correct an Error</td>
<td>13</td>
</tr>
<tr>
<td>When Using a Film</td>
<td>14-15</td>
</tr>
</tbody>
</table>
Introduction

The procedure detailed in this manual was developed in an effort to make interactive videodisc accessible and easy to use, even for people who have never before used computers as a teaching tool.

However, we realize that our personal approach and logic in arranging the subject-matter might not be identical to the system that you might prefer. Therefore we suggest that you take a few minutes to familiarize yourself with the contents of the manual before embarking on the process of creating your interactive videodisc lesson/presentation. This will allow you to refer to the proper section in case you need to do so.

At the end of the manual you will find a few sample pages that were used to produce a demo presentation following this procedure. You may use them for practice after replacing the visual numbers (first and second strings) with your own.
To create an interactive videodisc lesson you need

1. The Laser Write Master Disk
2. The VAI II Software Disk
3. A computer disk formatted on the Apple II E
   (also referred to as Playback Disk)
4. Data Input Sheets
5. Programming Directory Booklet
6. The Videodisc pertaining to your lesson

Also, you will be using 4 pieces of equipment:

1. Computer disk drive
2. Computer monitor
3. Videodisc player
4. Video monitor

Please make sure that all 4 pieces are turned on.
Glossary of Terms and Commands

1. A - search
2. Authoring - writing your lesson on the computer
3. Boot - command the computer to start
4. Branching - directing the lesson to remedial activities
5. Caption page - A page with a narrative text or a statement
6. Disc - the video disc
7. Disk - the computer disk
8. F - find
9. File - same as lesson
10. First string - the first visual in the page
11. Frame - a single visual
12. P - play
13. Second string - the second visual in the page
14. SW - Search and wait
15. Timing a film - finding the computerized number of the last frame in the film to be used
Writing a Lesson

The first step to authoring a lesson is writing it on the Data Input Sheets with all the necessary information about the visuals and the branching design. A well designed lesson on the Data Input Sheets will save you some headaches later, so take your time to complete all the necessary information. However, remember that the computer program will allow you to make changes, edits and additions as you deem necessary.

To write the lesson:

1. Choose the subject of your lesson from the list of subjects in the Programming Directory Booklet. The subjects are grouped in chapters. The number to the left of the subject identifies the first frame on the Videodisc that pertains to it.

2. Turn to that number in the booklet. Listed below it are all the visuals related to the same subject. Select the visuals that you will include in your lesson.

3. Start writing the lesson on the Data Input sheets. Do not exceed the number of lines or the number of
characters per line (see figure). At this point we are assuming that all the visuals are still, and we shall deal with films later.

As you notice, each page can include a maximum of two visuals. However, it is not mandatory to include visuals in every page.
Before proceeding any further let's take a closer look at the lower part of the Data Input Sheet titled Branching Information.

This part is particularly useful if your lesson includes multiple choice, true/false or fill-in-the blank requirements. It allows you to direct the student who missed the right answer to remedial page(s) or other remedial activities. For example, suppose that page 10 in your lesson includes a multiple-choice question (up to 5 choices), and that Number 2 is the correct answer. In such case any student who answers correctly can continue with the regular lesson, while all the others will be directed to a remedial page(s) or other remedial activities. The Branching Information on your Input Data Sheet for page 10 will be as follows:

```
Branching Information

<table>
<thead>
<tr>
<th>C</th>
<th>T</th>
<th>I</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>2</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

Page 5 File 5
Page 11 File
Page 5 File
Page 5 File

NAME OF THE FILE


Authoring a Lesson

When you finish writing your lesson, you are ready to author it on the computer. Note that the Return Key can substitute for answering Yes to any of the computer questions.

1. Turn on all four pieces of equipment
2. Load the videodisc in the player, right side facing up
3. Push PLAY button on the videodisc player
4. Insert the Laser Write Master Disk in disk drive A
5. Select 3 from the menu ("author a program") and press RETURN
6. Remove the Laser Write Master Disk and insert the formatted playback disk (also called "Data Disk")
7. Press RETURN
8. Computer will ask you to confirm the volume name of your disk, so press RETURN
9. Type the name of your file/lesson (up to 8 characters)
10. Press RETURN
11. Press ESC
12. Select 5 from the menu
13. Press RETURN. Now you'll be able to view the visuals you had selected while authoring the lesson
14. Press ESC

15. Indicate page style by typing the proper number as it appears on your screen. For example, 1 for caption. If your choice is already highlighted, press RETURN. Press Return again to indicate correct style.

16. Type the First String information (for example F 257 SW)
   If the page includes one visual only go to Step 18

17. Type the Second String information (for example F 291 SW). If the page does not include visuals, press RETURN whenever the computer asks for information about visuals.

18. Press RETURN

19. The Computer will ask you to confirm the accuracy of the information you had entered. Press RETURN (i.e. Yes) if the information is correct. Otherwise, press N and correct the error.

20. Type the text you had prepared for this page

21. If the page includes two visuals type PRESS SPACE BAR TO SEE THE SLIDE in the appropriate place.

22. At the end of the text type PRESS SPACE BAR TO CONTINUE

23. Press RETURN
24. Press **SHIFT** and ▲ keys (located with numeral 6 on the keyboard).

25. Press **RETURN**

You have just finished authoring the first page of your lesson. At this point the computer will ask you for the next page number. If your next page is also a Caption press Return. Any other page type, enter the Page number. (In this case 2). Repeat the authoring process that you had used for page 1.

26. Press **RETURN** to confirm the file name, and again to confirm the branching information.

27. When you complete the last page in your lesson insert 1 for the next page number. This creates a "loop" for the whole lesson.

28. Save the file/lesson

29. Boot the lesson on page 1 (see instructions)
How to Boot Your Lesson

1. Answer **NO** to the computer's question whether you have any more pages in the file
2. Insert the Laser Write Master Disk in disk drive A
3. Select **BOOT PAGE** from the menu
4. Replace the Master Disk with your Data Disk
5. Enter 1 for the page number to be booted
In Case You Want to Stop

Answer N to the question whether there are any more pages in the file. Then SAVE whatever you have completed already. Remember that by pressing ESC you can get out of the process at any time.
To Resume the Authoring Process

Start with step one in the authoring process and go to the last page you had finished, then continue the process.
To Correct An Error in the Text

1. Complete the whole page
2. Answer N to the question if the text is correct
3. With the ↑ move the brackets that appear on your screen to the line you want to edit
4. Press RETURN
5. With the → arrow, move to the spot that you want to correct, and make the correction
6. Continue to the end of the line with the → key
7. Press RETURN
8. Press ESC
When Using a Film Segment

You can insert the complete film as it appears in the videodisc or any portion of it. In either case you need to "time" your selection (identify the first and the final frames). For this example let's suppose that the film starts with frame number 6281 on side 1 of the videodisc, and that the film segment will be included in page 15 of your lesson.

1. Insert the VAI II Software Disk in disk drive A
2. Load the videodisc in player (side 1 up)
3. Press PLAY button in the videodisc player
4. Type A. The computer will request you to enter the string information (i.e. the first frame number)
5. Type F6281 SW
6. Press RETURN
7. Press P. The film will start playing. At any time you can stop it by pressing ESC and restart it by pressing P
8. Press ESC twice when you get to the end of the film, or the end of the portion that you want to include in the lessor. Midway down your screen, next to P Time appears a number (let's suppose it is 1204) which signifies the end of the film/portion.

Now, your Data Input Sheet for page 15 will read as follows:

First String
F 6281 SW

Second String
P 1204

After "timing" all the film segments to be included in your lesson, follow the same authoring procedure detailed in pages 7 - 9.
Data input

Page 1  File DEMO

Page style 1 2 3 4
0 Caption 2 True/False 3 Multiple choice 4 Fill-in-the-blank

Laserdisc commands
First string
FG973SW
Second string

Text
YOU ARE ABOUT TO EXPERIENCE THE VERSATILITY OF INTERACTIVE VIDEO DISC
THE SHORT DEMONSTRATION IS ONLY A SAMPLE OF WHAT COULD BE DONE WITH THIS MEDIUM AND IN NO WAY REPRESENTS ALL THE CAPABILITIES INHERENT IN IT.
The visuals and the films were chosen randomly for the sake of demonstration only so please forgive the discord between text and visual.

PRESS SPACE BAR TO CONTINUE

Branching information

Cursor User Input Cue
Data input

Page style 1 2 3 4
1 Caption 2 True/False 3 Multiple choice 4 Fill-in-the-blank

Laserdisc commands
First string FG981SW
Second string

Text INTERACTIVE VIDEPOLSC IS PROBABLY THE MOST UNDERUSED AND MISUNDERSTOOD MEDIUM ALTHOUGH IT IS ONE OF THE MOST VERSATILE, EASY TO USE AND VIRTUALLY INDESTRUCTIBLE OF ALL TEACHING MEDIA. BUT RATHER THAN TELLING YOU ABOUT ITS CAPABILITIES LET'S DEMONSTRATE

PRESS SPACE BAR TO CONTINUE

Branching information

<table>
<thead>
<tr>
<th>Page</th>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Demo</td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>
Data input

Page 3 File DEMO

Page style 1 Captions 2 True/false 3 Multiple choice 4 Fill-in-the-blank

Laserdisc commands
First string E7458SW
Second string E7468SW

Text
THE VIDEO DISC PROVIDES YOU WITH A VAST SELECTION OF STILL VISUALS; AS A MATTER OF FACT, IT STORES AS MUCH AS 54,000 FRAMES ON EACH SIDE. IT ALSO STORES MOTION FILMS ANIMATED FILMS, BOTH NARRATED OR SILENT. EACH PAGE IN YOUR LESSON CAN CONTAIN UP TO TWO STILL VISUALS. THE FIRST ONE APPEARS AUTOMATICALLY, AND NOW PRESS THE SPACE BAR TO SEE THE SECOND ONE.

Press space bar to continue

Cursor E User Input cue

Branching information

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>R</th>
<th>Page</th>
<th>4</th>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>W</td>
<td>Page</td>
<td></td>
<td>File</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>Page</td>
<td></td>
<td>File</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td>Page</td>
<td></td>
<td>File</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>Page</td>
<td></td>
<td>File</td>
</tr>
</tbody>
</table>

DEMO