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Overview

SLIM SHOW 1.5 lets you create and play professional looking, interactive multimedia presentations within Microsoft Windows. It provides an easy to use, drag-and-place authoring environment for integrating multimedia materials consisting of text, WAVE sound, MIDI music, bitmap graphics, synthesized speech (text-to-speech) and buttons.

Once a project is built and tested, you can either run it directly within SLIM SHOW 1.5 or distribute it with a standalone player (the multimedia engine). The player is very compact, requiring less than 50K bytes of diskette space for non text-to-speech projects or 550K bytes for projects with text-to-speech. The player will expand and run your project on target PCs automatically and then remove all components when the show is finished. You can also choose to build your projects using manual mode. The manual mode builder will generate an executable player program with all supporting library files. It will collect all of the show material files and put everything into a single subdirectory. This mode is useful for developers who wish to integrate multimedia projects within their own programs.

SLIM SHOW 1.5 does not come with tools to create the material files (bitmap, MIDI, WAVE or text). Since these are all standard Windows files, you can find most of the basic editing tools for them on your Windows system - Paintbrush for bitmaps and Notepad for text. The WAVE recorder is usually supplied with your sound card.

The system requirements for running SLIM SHOW 1.5, or running projects produced by it are:

- * IBM PC or compatible computer with a 386 or higher processor.
- * Microsoft Windows 3.1x or Windows 95.
- * Sound card (note *1) and mouse.
- * 4 MB of free hard disk space (note *2).

Note *1: When running a project on a PC without a sound card, the project still runs and displays text and graphics.

Note *2: The program and multimedia engine take less than 1M byte space. The rest of it is required by the demo presentation materials.

SLIM SHOW 1.5 generates complete, standalone executable files that are ready to be played on target PCs, without the needs of many other supporting devices or files that may be required by other presentation programs. The tiny multimedia engine and minimal system requirements make it easy for general PC users to enjoy professional multimedia presentations without the need for expensive equipment. This is even more important if you intend to distribute your projects to your friends or customers because not all of them have a 200MHz Pentium PC with a 2Gb Hard drive! And maybe they are reluctant to install a lots of files to their machines - even if they are free!

SLIM SHOW 1.5 can be used for many applications such as presentations, advertising, computer based training, education, multimedia greeting cards, games and so on. Because of the small size, you can now pack professional looking work onto a 3 1/2 diskette or attach it in your E-mail for distribution.

Features:

- * Interactive Multimedia presentation platform for Windows 3.1 or higher.
- * Eighteen built-in animation styles for graphics, together with the combinations of blanking out and resizing. The animation speed is adjustable. Other visual effects can be produced by arranging scenes externally.
- * Various styles for showing text strings or text files.
- * MIDI and WAVE audio playback.
- * Built-in text-to-speech synthesizer. Speaks any text. Pitch and speed adjustable. Allows use of custom dictionaries.
- * Text or graphical buttons for users interaction.
- * Visual authoring environment allowing you to drag-and-place nodes. Properties of the last editing node in each object type are memorized automatically for easy editing of new nodes.
- * Basic editing tools - Copy, Paste, Delete, Undo and Undelete.
- * Creates standalone, ready to run projects with player. Data compression provided for project materials. Fully automatic load and play process. All files are cleaned up after the show. Tiny player footprint (50Kb non text-to-speech, 550Kb with text-to-speech). Projects can be made to self-extracting executable files; ideal for attaching to E-mails.
- * Creates executable file and collects resources to be used in other Windows programs.
- * Show window can adjust automatically to target video size or set to a fixed resolution.
- * Transporting of TrueType text fonts (TTF) for use on target machines.

The "mouse button" means the left button on your mouse (for right-handed users) or the right button for left-handed users. This is the only mouse button you will be using in SLIM SHOW 1.5.

To "click on an object" means to point your mouse cursor at an object and press and quickly release the mouse button, without moving your mouse in between.

To "drag an object" means to point your mouse cursor at an object and then press and hold down the mouse button and move your mouse together with the grabbed object.

Getting Started

Follow normal Windows procedures to start SLIM SHOW 1.5. This will launch a main window with a menu bar at the top, a graphic bar on the left, a scroll bar on the right and the working area in the center. The menu bar is for executing commands, the graphic bar contains object icons, which are the building blocks for the multimedia project, and the scroll bar is for scrolling the working area. A recycle bin, for showing and recovering deleted data, is located at the bottom left corner of the main window. The central working area shows a diagram of the currently opened project. This diagram consists of nodes linked by arrows which show the sequence of execution. Each node is represented by an object icon that indicates the object type together with its node ID number on the left and annotations on the right. ID numbers are assigned to nodes automatically and provide references for branch locations. Annotations show file names, text and other important node properties.

Start creating your project by clicking or dragging icons from the graphic bar and placing them onto the working area. New icons become nodes as they are placed and arrows appear automatically in between nodes to indicate the sequence of the show. Nodes inside the working area can also be grabbed and moved.

To change the properties of a node, click on its icon to open the property editing dialog and then edit the details. For a node of "MIDI Music", "WAVE Sound" or "Speech" type, the "Play" or "Speak" button in the dialog window lets you hear the sound. For a node of "Background", "Graphics", "Text", or "Button" type, the "View" button in the dialog window allows you to view a scene in a pop up window that looks the same as the show (target) window.

The size of the show window can be set to either full screen (automatically adjusted) or a fixed size. A detailed discussion on this subject can be found in the "Deciding the show window size" section.

Click on or near the ID number of a node to select (highlight) that node. To select more than one node, point the mouse cursor to the ID number of the starting node and drag the mouse to the ID number of the last node in the series and release it. To select a large number of nodes, use the "Mark" command from the "Edit" menu to open a dialog box and type in the starting and ending ID numbers manually.

Use "Copy", "Cut", "Paste", or "Delete" from the "Edit" menu to cut and paste or delete the selected nodes. Use "Undo" to reverse your last change.

Deleted nodes go to the recycle bin. You can undelete them by grabbing them back from the recycle bin. All deleted nodes can be recovered from the recycle bin in reverse order of deletion.

Use "List" to show a line-by-line listing of the project. When you select the List command from the File menu, a temporary file that contains the project listing will be created, and the Windows Notepad will be called to view the file. You can view, search, print the listing file inside the Notepad.

The listing is a temporary file and will be removed when you invoke another list command, or when the SLIM SHOW program terminates. If you want to keep the listing file, you should use the "Save As" from the Notepad program to save a copy to a different name.

Test run your work at anytime by choosing "Run" or "Run From" in the "File" menu. "Run" will let you start a complete run of your project from the beginning (node #1). "Run From" lets you run from any node (specified by the highlighted node) to save time. Running will stop immediately after the execution reaches the "END" mark. When the "END" mark is reached, all unfinished sounds will be stopped and aborted. A show can also be interrupted at any time by hitting the <Esc> key.

If the show window size you choose is smaller than the size of the screen you are currently using, the

show window will appear on the screen with a title bar. When a test run is in progress, the title bar shows the current scene(node) ID number, providing a debugging tool for tracing your project.

When running a show, the main window of the SLIM SHOW program will be disabled. You are still allowed to have other Windows applications running simultaneously, and even to change the input focus to other applications. However, it is not recommended that you take the input focus away from SLIM SHOW when a show is running as the content of the screen may be corrupted when you do this. Because the visual effect of the presentation relies on dynamically showing graphics on the screen, bitmaps and text images will not be repainted when the show window is brought back from the background.

From the "File" menu, use "Open", "Save" and "Save As" to load or save projects. Once a project is finished and tested, use "Make Disk" to produce project diskette(s). You can use auto mode to create diskettes that are ready to play in the target machine or use the manual mode to create a player and collect all supporting and other project material files.

Commands

File Menu Contains commands to open, save, run, make projects, and to exit.

Edit Menu Contains commands to mark, cut, paste, delete nodes, and to undo changes.

Options Menu Contains the "Show window size" and "Animation speed" submenus.

Help Menu Contains commands for getting Help, About and Order information.

File Menu

File Menu contains commands to open or save projects, run projects, make disks or to exit the program.

The project files created by the SLIM SHOW 1.5 are binary files, with ".ss" file name extensions by default. When a modified project is saved under an existing name, the original file is saved automatically to the same name with a ".ssb" extension as backup. Only one project is allowed in the work area at once.

New To start a new project from scratch.

Open To load an existing project to the work area for editing, running or making.

Save To save the currently opened project.

Save As To save the currently opened project to a specific name.

List To show a line-by-line listing of the project.

Run To run the opened project, starting from the beginning (Node #1).

Run From To run the opened project from the highlighted node or the first of more than one highlighted node.

Make Disk To Make diskettes for distribution, or collect files and generate the player and supporting files for use in other Windows programs. The "Make Disk" command invokes the "Make SHOW DISK" dialog window for specifying the Make options and proceeding with disk making.

Exit To exit the program.

Edit Menu

Edit Menu Contains commands to mark, cut and paste nodes, to delete nodes, and to undo changes.

Cut To cut the highlighted node or nodes from the work area and put them onto the Clipboard.

Copy To copy the highlighted node or nodes onto the Clipboard. The contents of the working area are not affected.

Paste To retrieve the node or nodes from the Clipboard and paste them at the position before the highlighted node or nodes.

Delete To delete the highlighted node or nodes and move them to the recycle bin.

Undo To undo your last edit - i.e. the last action to alter the structure of a link or the contents of a node.

Mark To highlight a node or nodes by manually giving the starting and ending node ID numbers.

Options Menu

Options Menu contains the "Show window size" and the "Animation Speed" submenus for changing show window size and animation speed.

Show window size

The "Show window size" menu invokes a dialog window for selecting the size of the show window which determines the window size that will be used in the final presentation. The show window size can be set either to a fixed dimension or to the full screen - this changes automatically to fit target machines.

The show window size can be changed easily during the project editing phase. When you prepare a project for distribution, this information will be built into it. If you want to change the show window size after a project is built, you must run "Make Disk" again.

Although changing the show screen size is trivial, it is advisable that you decide on the size as early as possible in your project design phase since changing the show window size may affect your graphics layouts (Text and Graphics objects). Please refer to the "[Deciding the show window size](#)" section for a more detailed discussion.

Animation speed

Selecting the "Animation speed" menu invokes a dialog window for adjusting the animation speed. This value will only affect the built-in animation for the Graphics objects.

Both "show window size" and "animation speed" parameters are stored into the project files when saving, and are loaded to the system when opening project files.

Help Menu

Help Menu contains commands for getting Help, About and Order information.

Contents To bring up the on line help document.

Using Help To display help on the Windows Help system.

About SLIM SHOW To display copyright and contact information

Order Information To display order information

Building a Show Project

SLIM SHOW 1.5 provides an authoring environment for you to easily create your multimedia projects. Your project can show text and graphics on the screen, play MIDI music and WAVE sounds together with synthesized speech via your audio device. It also contains buttons which allow your audience to interact with your presentation.

The recommended procedures for building a project are:

1. **Deciding the show window size.**
2. **Preparing materials.**
3. **Creating the project file.**
4. **Testing the project.**
5. **Making the project for distribution** (not needed if you are running your project using the SLIM SHOW program directly).

Deciding the show window size

The first thing you should do in designing a project is to decide the size of your show window. Although this value is easy to change from the SLIM SHOW program, you should determine it as early as possible because:

- (1) you need this information when creating your bitmap files as well as selecting your text fonts, and
- (2) it may have a significant impact on your project if you change this at a later stage as all of the graphical scenes may be affected.

You have two choices for the show window size, the fixed size method and the auto-adjusted method. The fixed size method always displays your project in a window of fixed X-Y dimensions specified by number of points. If the target machine's screen is larger than this dimension, the show will be displayed in a small window with a title bar at the top. If the target machine's screen is smaller, your show will be clipped and only the center part of it will be seen. To guarantee that your show will not get clipped in different target machines, you will need to design your show to fit the lowest possible size, which is usually 640 by 480 by today's standard.

If you choose the auto-adjusted method, it will always adjust the show window size to match the full screen size of the target machine. However, there are two concerns if you take this approach. The first is that the bitmap graphic files are stored by fixed size and if you map them directly without resizing, they may leave blank spaces or get clipped on different machines. Using the "resize" option you can avoid this by letting the image stretch to fit to the specified location. However, because of the resizing, your graphic may be a little distorted. The second concern is that the size of the text is always determined by its font and is not scaleable. Although the text still gets shown at the designated place, the relative size of the text to the target screen will vary.

Please note that the above discussion assumes that you are going to show your project on many different machines. If your project is only to be shown on a dedicated machine with a known display size then this will not be an issue.

Preparing Materials

To create a project, you will have to prepare all your presentation materials. Graphics should be standard Windows bitmap files. Text objects use either literal string or ASCII text files. You will also need to prepare text font files if you plan to use special fonts that are not installed in your system. For sound, you need Windows WAVE or MIDI files. For speech, use literal strings. Buttons use either literal strings or bitmap files.

Once you have all these materials ready, you can use SLIM SHOW 1.5 program to build your project.

Creating the Project File

A show project is made by placing and linking nodes and assigning properties to those nodes in the working area. A node is the basic building block of your show and is described by its object type and other properties.

There is a total of ten object types in the SLIM SHOW 1.5 for showing scenes, playing audio and controls. The ten object types are: Background, Graphics, Text, WAVE sound, MIDI music, Speech, Sound Control, Timer, Go To, and Button.

The properties of nodes contain information such as filenames of the materials, animation styles, audio volume, branch positions, and so on. Nodes are linked together by arrows, which determines the execution flow of the project.

Each node in the project has a unique ID number. These ID numbers are assigned sequentially from one to the maximum number of nodes allowed (32,000) as new nodes are added to the project. Normally the execution starts from node #1 and follows the ID sequence unless there is a branch node. Two object types effect a branch - the "Go To" and the "Button". When a "Go To" node is encountered, the execution sequence of the show is unconditionally changed to the node that it points to. Branches can also happen at button nodes. They occur when the button is pressed and more than one button can appear at a time for users to make a selection.

As nodes get moved, deleted or inserted, the ID numbers will be reassigned automatically. For "Go to" or "Button" nodes, the destination properties that specify their branch locations will also be adjusted accordingly.

Object Types and Properties

There is a total of ten object types in the SLIM SHOW 1.5 for building the project.

Background

Graphics

Text

WAVE Sound

MIDI Music

Speech

Sound Control

Timer

Go To

Button

Background

Background objects specify the color to be used for painting the background. You can specify the color by clicking on the "Color Select" button, which opens a color selection dialog window. From the dialog window you can choose any one from the forty-eight colors in the "basic color" template, or define and pick your own color.

To define custom colors, press the "Define Custom Colors" button and bring up the color definition template. Move the cursor inside the color refiner box and drag the arrow beside the luminosity bar to define your color. You can also create a color by typing numbers in the Red, Green, and Blue boxes, or the Hue, Sat (saturation), and Lum (luminosity) boxes. Click the up and down arrows to change the numbers. After the color is picked, you can add it to any one of the sixteen user defined color boxes and assign that color to be used for your background.

When a Background node is executed, the whole background can be repainted immediately or left unpainted. This property is specified by checking the "Repaint now" check box. In either case, the new assigned background color will affect the followed bitmap and text scenes.

Graphics

Graphic objects show bitmap files on the screen. You need to specify the full name of the bitmap file to its "File" property. The maximum number of characters allowed for the file name is 80. You can either type the name directly in the Edit box or click on the "File Select" button to open the file selection dialog window and make the selection.

You can choose from one of the eighteen built-in styles by using the "Style" combo box to show your graphic file. Together with styles, there are three other properties to select. The "Resize" property lets you choose to display the bitmap either in its original size or to have it stretched within a rectangular dimension. To show a bitmap as its original size, the specified display position will only be used as a reference to calculate the alignment, while the actual size of the picture is determined by the bitmap itself. The bitmap will not be clipped to fit to the display region if that region is not big enough. The "Left Align" property lets you choose to align a non-stretched bitmap either by the upper left corner or by its center point relative to the display region that you specify. The alignment property will be ignored if you choose to resize the bitmap because the stretched image will always fit the specified display area. Instead of showing a bitmap, the "Blank" property let you clear the bitmap with the background color. The 18 show styles also affect blanking.

The position property of the graphic is specified by the four numbers that describe its left, top, right and bottom positions. The numbers used to specify the position are in a scale of zero to ten, allowing two decimal places. The number sets the position relative to the dimension of the show screen. 0.00 means the left or top most position on the show screen, 5.00 is in the middle and 10.00 represents the right or bottom corner position.

A position custom control is used to specify the display area of the bitmap. It has one big rectangle on the outside that represents your show window screen, and a smaller rectangle in black located inside, representing your bitmap. You can move the black rectangle by dragging it inside the larger rectangle. You can also change its size by moving your cursor close to the rectangle boundary and dragging it, in the same way you change the size of a regular window. The four boxes attached to the right of the control give the exact values of the left, top, right, bottom positions of the bitmap. When you change the position or size of the small rectangle by dragging it, the contents inside these four boxes will be updated automatically. You may also enter numbers directly into these boxes to change the size and position. When you do this, the inside rectangle of the custom control will change accordingly.

Some built-in animation styles are generated by tiling, which breaks the source image into a matrix of rectangles, and then paints them back to the destination windows in certain orders. The final images of the tiled pictures may be a little larger or smaller than the specified dimensions because the specified values may not be equal to the multiple of the tile size. Tiling is used in the following styles: Brush Left, Brush Right, Brush Up, Brush Down, Brush to the middle, Spiral, and Random.

The wait time property specifies the period to wait (snooze) before the execution of the next node. A delay value between 0 and 32 seconds is allowed, with an accuracy to 0.1 second. If you want to snooze more than 32 seconds, you need to add timer nodes.

Text

A text object shows text on the screen. Either a literal string or a text file can be used, which is specified in the "Text or File" property. For literal text, you enclose the string inside two quotation marks (") and type it into the Edit Box. For a text file, you can either type in the whole name of the file into the Edit box, or use the "File Name" button to open a File selection dialog. Note that if you do not use the two quotation marks to enclose the text, the text will be used as a filename. The maximum number of characters you can put in the "Text or File" property is 80.

You can specify three option properties for the text object. Normally, when none of the option boxes are checked, the text will show up immediately when the node is executed. Each character will be shown with the rectangular area around it painted with the background color. All text is aligned at the center of the specified display area, both horizontally and vertically.

The "Marching" option makes the text to appear one character at a time instead of all at once. The "Transparent" option lets you paint the text only and leave the surrounding area untouched. The "Align left" option forces the text display to start at the left top corner of the area that you specify. Note that the alignment is meaningful only if all of the text can be fitted into one line of display. If not, then the text will always be displayed from the upper left corner and will wrap to the next line automatically at a word boundary. If space runs out before the whole text is displayed, the rest of it will not be seen.

For text files, they can contain printable ASCII characters and the CR-LF(carriage return/line feed) control characters. Text will also be wrapped to the next row when horizontal spaces are running out, but not always at word boundaries. The maximum number of characters allowed in a text file is 4096.

A text object is not scaleable. Its size is determined by the text itself and the text fonts used. The display area you specify is used as a reference for alignment, and if there is insufficient space, the text will be clipped.

The position of a text object is specified in the same way as the Graphics object.

The wait time property specifies the period to wait (snooze) before execution of the next node.

Text can be displayed using any text font installed on your system. For presenting on target machines, the SLIM SHOW program bundles all the special TrueType text fonts that you used to the project. If the font you specify is not available on the target machine and it's not TrueType, the player program will find a suitable replacement to use.

Please be aware of the license agreements for the special text fonts - you may not have rights to distribute for use in other machines. Always make sure you have sufficient rights for all of the materials you intend to distribute. SLIM SHOW 1.5 will show you a list of all the material files that it is collecting when building the project disk.

WAVE Sound

A WAVE Sound object plays a Windows WAVE file via the audio device. The full name of the WAVE file needs to be specified in the "File" property, and the maximum number of characters you can use is 80. Depending on the length of the WAVE sound, the playback may take a while to complete. The "Wait for complete" option lets you decide if your show should move on while the WAVE sound is playing. If you have this option checked then the execution of the following nodes must wait until the WAVE playing is finished, otherwise execution will continue while the file is playing.

Please be aware that the WAVE playing can only be overlapped with nodes that do not need the Windows wave output device. When the execution reaches another node that needs the WAVE output device before the previous one is finished, the execution will have to wait. To prevent the execution from waiting, you can place a Sound control node before the second WAVE Sound to stop the previous one. Both the WAVE Sound and the Speech nodes need WAVE output device.

The volume slider is used to set the volume of the wave output device.

MIDI Music

A MIDI Music object plays a MIDI file via the audio device. The full name of the MIDI file needs to be specified in the "File" property, and the maximum number of characters you can use is 80. Depending on the length of the MIDI music, the playback may take a while to complete. The "Wait for complete" option lets you decide if your show should move on while the MIDI file is playing. If you have this option checked then the execution of the following nodes must wait until the MIDI playing is finished, otherwise execution will continue while the file is playing.

Please be aware that the MIDI playing cannot be overlapped with another MIDI Music node. When the execution reaches another MIDI node before the previous one is finished, the execution will have to wait. To prevent the execution from waiting, you can place a Sound control node before the second MIDI node to stop the previous one.

The volume slider is used to set the volume of the MIDI output device.

Speech

Speech objects produce synthesized speech from text. You specify the literal string that you would like to be spoken in the "Text" property - the maximum number of characters allowed is 80. Please note that the two quotation marks are not needed in a Speech Object. If you include quotation marks, they will literally be converted to the string "quote" and spoken out.

The "Wait for Complete" option and the Volume properties are the same as for the WAVE Sound object. The "Tempo" slider adjusts the speed of the speech, and the "Pitch" slider adjusts the tone.

You can customize the pronunciation of words by editing the dictionary file used by the synthesizer. You can also use a different voice font file for different speech sounds. For more information on the speech synthesizer, please refer to the "The Speech Engine" section.

Sound Control

Use Sound Control objects to adjust the volume of, or stop, MIDI and WAVE audio.

Timer

A timer object provides a delay period within the show. The delay time can range from 0.1 to 32 seconds. It is used to add wait times in the presentation. For example, you might need to play a MIDI tune for ten seconds before showing a picture, or turning down its volume, etc. You may link more than one timer together to extend the delay time beyond 32 seconds.

Go To

A "Go To" object forces a branch in execution. The node pointed to by its target property will become the next node for execution.

Button

A Button object provides a way for users (audience) to interact with your presentations. It forces the node pointed to by its target("Go to") property to be the next one for execution when pressed by the user. For each button node, if its successor (the node underneath it, not the node pointed by its target property) is also a button then it will spawn a thread to this next node automatically in the execution. Because of this, if more than one button is connected in sequence, they will all be shown on the screen at once. The execution will wait indefinitely at the last node of a series of button nodes for users to take action. Once the user presses any one of these buttons, all the buttons disappear and execution continues from the node pointed to by the pressed button.

You can draw text or a bitmap on a button by specifying the literal text or the filename in the "Text or File" property. When specifying a literal string, you need to enclose it in quotation marks. You can use up to 80 characters.

The size and position of the button are specified by the "Position" control, and should be assigned in the same way as for the Graphics object.

A button can be shown with or without its outline - this is defined by its "Draw Outline" property. The "Resize" property of a graphic button allows the bitmap to be stretched to fit on the button. If you do not check this option, the bitmap will be shown in its original dimensions. It will be clipped if the button size is too small, and blank areas will be added if the button is too large. Unlike the Graphics object, the size of a graphic button is always drawn to the size that you specify.

The mouse cursor changes to a hand shape when it is moved over a button.

Editing Techniques

Adding a new node

Deleting a node or nodes

Undeleting a node or nodes

Moving a node or nodes

Selecting a node or nodes

Marking a node or nodes

Copying a node or nodes

Cutting a node or nodes

Pasting a node or nodes

Undoing the last move

Editing node properties

Using memorized properties

Adding a new node

Clicking on an object icon in the graphic bar will append a new node of that type to the end of your project. If you want the new node to be placed between your existing nodes instead of at the end, you should drag it from the graphic bar and release it at the appropriate point. Always use the tip of the arrow-shaped mouse cursor as the reference point for releasing objects.

Deleting a node or nodes

You can drag a node and release it to the recycle bin to delete it. You may also delete one or more nodes by selecting (highlighting) them first, then pressing the key on your keyboard. Using the "Delete" command from the "Edit" menu works the same as pressing the key.

Undeleting a node or nodes

You can drag nodes back from the recycle bin and put to any place you want in your working area. The recycle bin works like a stack, saving all your deleted items. You recover deleted items from the recycle bin in the reverse order to which they were deleted. The recycle bin also remembers how many nodes you deleted each time, and keeps them the same when you recover them. For example, if you delete three nodes at once, when you undelete you will be grabbing three nodes back, connected in their original sequence. The recycle bin is cleared when you save or open projects.

You can return a recovered item to a different place from which it was deleted. This provides you another method of moving nodes around, and is especially useful when you want to move more than one node at a time, or if you are moving some distance from its original place.

You can also use the "Undo" from the "Edit" menu to recover your deleted nodes. This way, the deleted nodes will always be returned to their original locations. However, you can only undo the last modification.

Moving a node or nodes

You can move a node from one place to another simply by grabbing the node and dropping it at the desired location. If you need to move more than one node at a time, or move something to a place outside the current screen, you can delete them to the recycle bin and then restore them back to the desired place. Use of the Clipboard also achieves this.

Selecting a node or nodes

A node or nodes must be selected before they can be deleted, cut or copied. Also, selection provides a reference for the "paste" and the "Run From" commands. In the SLIM SHOW program, at least one node will be selected at any time (highlight will be on the "END" marker if the project contains no nodes). When a node is not selected, its ID number is shown in black on a white background. A selected node or nodes have their node ID number shown in reverse color. We will also refer the selected notes as "highlighted".

Clicking near the ID number area of a node will select it. To select more than one, point the mouse near the first node's ID number and drag it to the area near the last node's ID. If you need to highlight more nodes than can be shown on one screen, use the "Mark" command in the "Edit" menu.

Marking a node or nodes

Use the "Mark" command from the "Edit" menu to select one or a sequence of nodes by giving the ID numbers of the first and the last nodes. A simple dialog box will appear for you to type in the numbers.

Copying a node or nodes

Use the "Copy" command from the "Edit" menu to copy the selected nodes to the Windows Clipboard. The Clipboard is a global storage area managed by the Windows system for applications to exchange data. Data copied to the Clipboard from SLIM SHOW can be used later for pasting. This provides a way for moving or duplicating nodes. You can also use the Clipboard to import and export nodes between different project files.

The maximum number of nodes that can be copied to the Clipboard at one time is 500.

The Copy command can also be given by pressing <Ctrl><c>.

Cutting a node or nodes

"Cut" is the same as "Copy" except that the selected node or nodes will be removed from the working area. A "Cut" command can also be given by pressing <Ctrl><x>.

Pasting a node or nodes

"Paste" from the "Edit" menu is used to paste data from the Clipboard. Nodes on the Clipboard will be inserted before the current highlight positions. If you want the data to be pasted at the end of the project, put the highlight on the "END" sign.

Data on the Clipboard will not be destroyed by the paste operation. The "Paste" command can also be given by pressing <Ctrl><v>.

Undoing the last move

"Undo" from the "Edit" menu provides a way for users to back out from their last modification to the project data. This includes changes in a node's properties or the way nodes are linked. A modification can be caused by "Add", "Delete", "Move", "Cut", "Paste" or by invoking of the dialog that changes the properties of a node.

The "Copy" command, or the changing of highlight positions or screen size will not modify the project data.

One limitation of the "undo" command is that you cannot undo an "Undelete". Another point to note is that when "OK" is pressed in the Property editing dialog, even if you did not really making any change to the properties, it is still considered to have been modified. However, if you press the "Cancel" button to back out the dialog, then this does not count as a modification.

The "Undo" command can also be given by pressing <Ctrl><z>.

Editing node properties

Click on the node icon to change the properties of that node. A Property Editing dialog box will pop up for you to make changes. The title of the dialog box tells you the node's ID number and type.

For MIDI, WAVE or Speech nodes, a "Play" or "Speak" button can be pressed to listen to the sound. The "Play" or "Speak" button will change to a "Stop" button after the sound starts so that you can stop the playing anytime. For text, bitmap or button type nodes, a "View" button can be pressed for previewing. When pressed, a preview window that is the same as the target window will pop up showing the scene. Depending on your current display size and the show window size of your choice, the preview window may be a smaller window appearing in the center on your current screen, or it can occupy your whole screen. If your current display is smaller than the show window size then you will only see the center of the show. Unlike sound playback, the "View" button will not change to a "stop" (for returning to the property editing dialog). This is because the button may not be accessible if the view window covers your whole screen. To clear the view, you can either press the <Esc> key on your keyboard or click on any place in the view window (except on top of a button). If the view window is smaller than the whole screen, you can also go back by clicking on other places in the editing dialog window. Do not click on the "View" button because this will show you the view again.

Once the editing is done, press the "OK" button to accept the changes. If you decide not to make changes, press the "Cancel" button.

Using Memorized properties

For each object type, the properties of the last edited node are saved automatically as default values for further new nodes of that type. This is very useful when you are creating a series of nodes that have similar properties.

The node's properties only get memorized when you hit the "OK" button in the last editing.

Testing the project

Test run your work at anytime by choosing "Run" or "Run From" in the "File" menu. "Run" will let you start a complete run of your project from the beginning (node #1). "Run From" lets you run from any node (specified by the highlighted node) to save time.

Running will stop immediately after the execution reaches the "END" mark. When the "END" mark is reached, all unfinished sounds will be stopped and aborted. A show can also be interrupted at any time by hitting the <Esc> key.

If the show window size you choose is smaller than the size of the screen you are currently using, the show window will appear on the screen with a title bar. When a test run is in progress, the title bar shows the current scene(node) ID number, providing a debugging tool for tracing your project.

When running a show, the main window of the SLIM SHOW program will be disabled. You are still allowed to have other Windows applications running simultaneously, and even to change the input focus to other applications. However, it is not recommended that you take the input focus away from the SLIM SHOW when a show is running as the content of the screen may be corrupted when you do this. Because the visual effect of the presentation relies on dynamically showing graphics on the screen, bitmaps and text images will not be repainted when the show window is brought back from the background.

Making the project for distribution

Once your work is finished and tested, you can use the "Make Disk" to pack the project file, material files and SLIM SHOW player and make the whole thing into a standalone, ready to run package for distribution. This allows your audience to run your work without the SLIM SHOW program.

You have three choices when building your projects. In "Autoplay with loader" mode, your project will be built into a package that contains one executable file and one or more compressed data files, ready to run on the target machines. All that your audience need to do is insert the first diskette in the machine and run the executable file ("show.exe") from within Windows. The executable will read all the packed data files, prompt users for changing diskettes (if more than one is needed), decompress and present your project. Once the presentation is complete, all resources will be removed from the target machine automatically. In this mode, you usually specify the destination drive to be a floppy drive (A: or B:), although a hard disk subdirectory is also allowed. You must specify the size of the diskette so the data can be packed and cut to files that can fit. The "Make SHOW DISK" dialog will prompt you to insert and change diskettes.

The auto mode builder creates compressed data files to diskettes. The data file on diskette #1 is named "ss1.dat", on diskette #2 is named "ss2.dat", and so on. On the first diskette there is also a file named "show.exe", which is the loader program. This is the program to run from the target machine. When executed it will read and expand files, call the player program for running the show, and clean up all the files after the show.

The second way to build your project is to use "Autoplay with self-extract EXE" mode. This mode is similar to the first one except that everything (the loader and data files) is combined into one executable file named show.exe. This mode is very useful if you want to make a project and attach it with you E-mail.

The third way to build your work is to use the Manual mode (to collect files only). Instead of building a project into a ready-to-run package, the manual mode builder generates a player executable file with supporting libraries, and collects your project file and material files and saves everything to the destination that you specify. Usually the destination should be a subdirectory on your hard drive, unless you are sure that they can be fitted onto one floppy diskette (diskette changing is not allowed in this mode) and you do not mind if it is slow. This mode is useful for Windows program developers that wish to integrate the SLIM SHOW player into their applications. The SLIM SHOW player program ("ssplayer.exe") is a Windows executable file and there are many ways for you to run it from your application, for example by using the "WinExec()" or "LoadModule()" API functions. To have the player run properly, you will need to place all of related files, which include the project file ("show.ss"), the speech-support files (the voice font file and dictionary file), and all the project materials (WAV, BMP, MID, TXT) into the same directory as the player file. You can place the support libraries (the DLL files) in that directory too or you can place them in the Windows system directory. If there are special text font files, you need to either install them or to add the resources before executing the player. If the project does not have Speech nodes then the speech library, voice font, and the dictionary will not be included.

Regardless of which mode you are using, during the Make Disk process the program will show you a list of all the material files that are used by the project. Material files include the bitmap, MIDI, WAVE, text files and any special text font files that need to be used in the project. One very important thing to do is to check this list and make sure that you have appropriate rights for distributing these materials.

Make SHOW DISK dialog window

Project Title To specify the Project Title. A string up to thirty-two characters is allowed. The Project Title will appear in the title bar of the show window (only if the show window is smaller than the screen) during show time.

Destination Drive:Directory To specify the full path (drive:path) of the making destination.

Make Option To specify how to build the project. You can choose from the following three options. (1) Autoplay with loader. (2) Autoplay with self-extract EXE file. (3) Manual mode (Create player and collect files).

Diskette Size To specify the diskette size to be used in the Autoplay with loader mode. The data files will be built and cut to sizes smaller than this number so they can fit to the diskettes.

The Speech Engine

The Speech Engine used in SLIM SHOW 1.5 is a real text-to-speech synthesizer that can generate speech from any randomly provided text. It is not a digitized voice playback system nor a pre-recorded word concatenation system. The speech engine generates speech by translating text into phonemes using its internal rules. Sometimes these rules do not pronounce words properly, so an exception dictionary which maps words into their desired pronunciations, is used to override the rules.

The speech engine and voice font takes about 500K bytes of disk space. This equals about 45 seconds of voice recording using 11.025 KHz/mono sampling rates. A general guideline is that if you are recording voice for more than 45 seconds in your project, the speech synthesizer will save you disk space over digitized voice. When building your project files, the SLIM SHOW program will check to see if the project contains any speech object. If no speech object exists then it will not build the speech engine files into the project.

The speech quality of the synthesized speech is not as good as digitized human voice. However, there are advantages to using the speech synthesizer other than just saving disk space. For instance, you do not need to record the voice, making changes is easier and it allows you to change the tempo and pitch.

You can use different voice font files to get different voices, but only one voice font is allowed per project. You can customize your pronunciation of words by editing the dictionary using the Dictionary Editor program included in this package.

The Speech Engine comes with the SLIM SHOW program is to be used within the SLIM SHOW player only! You are not allowed to use it for other purposes.

Order, Licensing, Distribution, and Others

There are two different licensing plans for registering your SLIM SHOW program:

Standard version. \$49.95 (Tax/shipping included). The standard version license allows you to use one copy of the SLIM SHOW program on one computer at a time, to make presentations directly or to make projects for noncommercial distribution. For each project you make, you may not distribute more than 20 copies - otherwise it will be considered enterprise use.

Enterprise version. \$99.95 (Tax/shipping included). The enterprise version license allows you to use one copy of the SLIM SHOW program on one computer at a time, to make presentations directly or to make projects for noncommercial distribution. You may build your projects and distribute an unlimited number of copies provided you do not sell them for profit. For example, you could build a training project and distribute to employees, or make a product promotion project and send it to prospects.

If you intend to distribute a product with the SLIM SHOW's engine built inside for profit (e.g. make a story book and sell it), you need to obtain a commercial distribution license for it. For each product, the cost for a royalty-free commercial distribution license is only \$49.95. Please contact PC WholeWare for a sample copy of the distribution license agreement before ordering.

To order SLIM SHOW 1.5, please fill out or prepare the information on the [order form](#) and use one of these methods:

(1) Send a check (drawn on a U.S. bank) or postal money order paid to PC WholeWare, and mail it with your [order form](#) to:

PC WholeWare
33 Justin Street,
Lexington, MA 02173
USA

(2) Order by phone, fax, mail, or directly from the Internet by using a credit card (VISA/MC/AMEX/Discover). This is an ordering service provided by PsL. The reference number for the SLIM SHOW program in PsL is **#14987**.

By Phone: 800-242-4775 or 713-524-6394

By Fax: 713-524-6398

By Mail: PsL, P.O.Box 35705, Houston, TX 77235-5705, USA

From Internet: go to "<http://www.pcww.com>" and follow the instructions.

(3) From CompuServe. Type "GO SWREG" from CompuServe and follow the instructions. The Registration IDs for them are:

SLIM SHOW (Standard version) - **#13823**

SLIM SHOW (Enterprise version) - **#13829**

Your order will be processed and shipped to you by first class/air mail as soon as it is received. For

urgent needs, a file can be sent via E-mail to you to use temporarily. (you need to include the E-mail address and put an URGENT note on your order form.)

SLIM SHOW ORDER FORM

(Please have the following information ready, or use it as the order form for fax/mail order)

Name _____

Address _____

Phone Number _____ E-mail _____

SLIM SHOW (Standard Version) Quantity ___ X \$49.95 = _____

SLIM SHOW (Enterprise Version) Quantity ___ X \$99.95 = _____

Total: _____

Credit Card Information:

Type of card: VISA _____ MC _____ Amex _____ Discover _____

Card Number _____ Exp. date _____

Signature _____

Contact information

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