KoolMoves

version 5.6

User Manual



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KoolMoves User Manual

Introduction

About Flash

Flash[™] was developed by Macromedia (since bought by Adobe) to make it possible to have high impact web sites, alive with animations, sounds, interactive interfaces, and powerful graphics. Flash utilizes a very compact vector graphic format, so web sites with Flash animation download quickly. Flash also has a huge market penetration, with most web browsers containing the Flash player plug-in. For these reasons, most high-end web sites use Flash animation. However, the Adobe Flash package is expensive and has a steep learning curve.

Why KoolMoves

Unlike Adobe Flash, quality animation is easy and affordable with KoolMoves. It is ideal for creating animated web pages, banners, navigation systems, and intro pages. It features libraries of text effects templates, web page templates, vector clip art and buttons, ActionScript text effects as well as many transition effects. For advanced users, it even has Flash MX ActionScripting, dynamic text fields, and character animation with bones.

KoolMoves takes an approach to Flash[™] movie creation that is in tune with the animation process, because it was designed by a professional animator. It is a mature animation package with ease of use and power as guiding principles. To make animations in KoolMoves all you have to do is draw or import shapes or images and then reposition, reshape, and recolor the animation objects in adjacent key frames to achieve the desired look. KoolMoves automatically morphs shapes in between each of the shapes you create to achieve smooth animated motion. It's like putting together a cartoon strip. Each frame contains text, images, shapes, sounds, and actions. For character animation, one frame would have the characters in one pose and in the next frame in another pose.

KoolMoves also has "Wizards" to help users new to computers and computer animation. Ranging from automated guides that assist you in performing fundamental tasks for the first time, to shortcut menus that execute simple processes like creating buttons or editing shape properties, the Wizard tools allow you to express creativity in the quickest fashion with the least amount of frustration.

Beyond simple animation, KoolMoves provides Flash MX ActionScripting capability. A large fraction of the Adobe® Flash 5, 6, 7 and 8 operators and commands are supported at this time. This functionality is regarded as advanced and requires knowledge of ActionScripting that can be obtained from books or web sites devoted to that subject. This manual is not intended to teach ActionScript and where ActionScripting is addressed it is assumed that you have scripting experience.

About This Manual

This version of the manual has been composed and typeset in WindowsTM Word[®], and exported to the AdobeTM Portable Data File (PDF[®]) format. The inconsistent use of Capitalization with topic names is intentional and is done to control the topic incidence in the manual's index.

The organization of the manual is based loosely on the layout of KoolMoves Graphical User Interface (GUI), as described in Chapter 1. Part I of the manual focuses on the overall appearance of the interface and the Help function, Part II on the Tools Toolbar and related visual element functionality, and Part III on the Menu Toolbar and miscellaneous menu actions not covered elsewhere. Part IV has brief introductions to advanced features while the Appendices contains reference information useful for troubleshooting, using KoolMoves' features and expanding the user's capabilities.

User Guides

Effective with manual version 0.3b, certain portions of the manual featuring advanced features have been broken out into independent User Guides. The user guides are located with the manual on the KoolMoves support page. It is believed that this will help users print only those materials that they need. Bookmarks and hyperlinks have been added with 0.3m to facilitate navigating these materials and accessing context relevant information.

Administrivia

All questions concerning installation, purchase, and / or registration of KoolMoves that are not addressed below can be emailed to support@koolmoves.com.

Installation

Installation of KoolMoves is simple. Double click on kmsetup.exe. The installation program will step you through the process of installing the software. For most screens, just keep pressing Next.

To uninstall, use the Control Panel Add/Remove Programs to remove the program.

Registering KoolMoves

Upon purchase of a registration code, you will receive a download location to a full version of KoolMoves without restrictions and a full set of library items.

Upgrades

Those who purchased KoolMoves after March 2005 will receive free upgrades through January 2007.

Part I – KoolMoves Environment

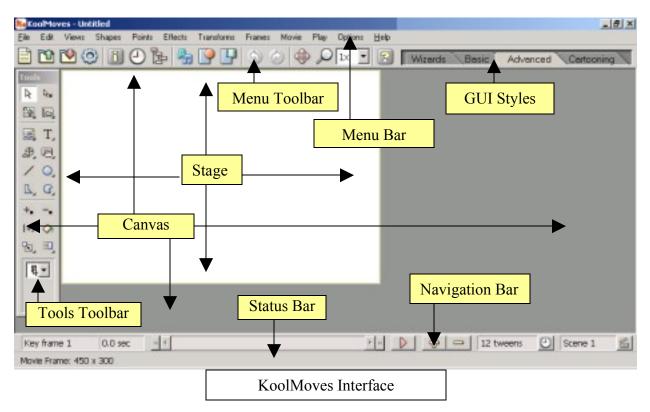
Chapter 1 – KoolMoves User Interface Chapter 2 – Preferences and Options Chapter 3 - Help Features & Tutorials KoolMoves User Manual

Chapter 1 – KoolMoves User Interface

This chapter covers the KoolMoves user interface. Following the principles of simplicity, usefulness and flexibility, the screen layout is highly customizable, incorporates many shortcuts, and continuously displays information concerning the current action. Many of the tools briefly addressed in this chapter will be covered in depth later in the manual. But first we will look at a couple tools that will help customize the interface to your unique requirements.

Screen Components

The appearance of the KoolMoves environment depends on the graphical user interface (GUI) style selected and your preferences. For example, below the Advanced user interface has been selected and none of the optional data views have been opened. Screen components common to all configurations have been labeled.



User Interface Style Settings

KoolMoves has four user interface styles available. You can select the appropriate interface on the Screen and also in File > Preferences > View. KoolMoves will determine the appropriate Tools Toolbar based on the user interface style selected.

Wi	zards 🔪 Basic 🗋	Advanced	Cartooning
	Available user	interface styles]

The following table identifies the mapping between functionality and the 4 interface styles.

	Wizards	Basic	Advanced	Cartooning
Banner wizard	X			
Slide show wizard	X			
Effects	X	x	х	X
SWF Flash Movie import		x	х	X
Full set of drawing tools			х	X
Shape point manipulation			х	X
Dynamic text			х	X
Masking			х	X
ActionScripting			х	X
Interface components			х	X
Flash Live Video import			х	X
Non-linear morphing				X
Bones				X

User Interface Features

Configuration Wizard

Principal Task	Skill Level
Action scripting	C Novice
Complex drawings	C Internediate
Simple berner	C Advanced
Slide show	
Text /mage effects	
Unknown	

File > Configure launches the Configuration Wizard. After answering a couple questions on your major use for KoolMoves and your level of experience with graphics software, click on Next and the wizard will recommend a set of interface settings.

You can change your preferences before clicking on OK, and change the settings later. If you have any questions about this or any other window, check the index at the end of this manual to find entries on the topic.

Screen Component Descriptions

Work Area: Canvas and Stage

Canvas - Shapes, text and other visual elements are placed or created here. Also located on the Canvas with the visual elements is the Stage. To navigate over the drawing area, particularly in the case of zooming, use the Pan Movie tool.

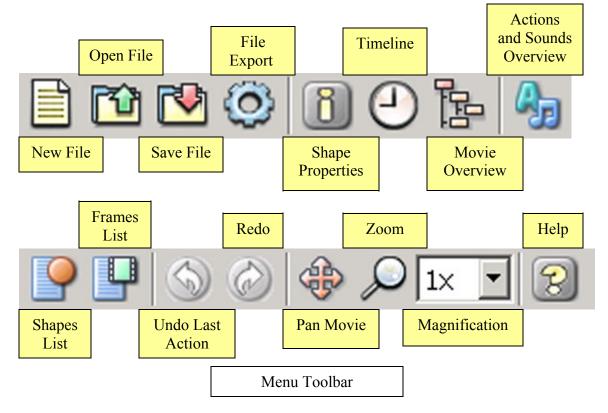
The Toolbox and other KoolMoves interactive elements (dialog boxes, data views, and preview windows) float over the Canvas and can be repositioned as desired with a simple left-click and drag.

Stage - The white section of the Canvas. The Stage represents the runtime display area / the physical dimensions of the movie. Each frame can start with a copy of the stage from a previous Frame, or start with a blank Stage like a fresh canvas.

Bounding Boxes – Used to display the height and width of a visual element, bounding boxes have color coded corners to indicate the type of object being displayed (blue for buttons, green for movie clips, and pink for imported swfs and flvs). Green dashes indicate effects have been applied to the object.

Menu Toolbar

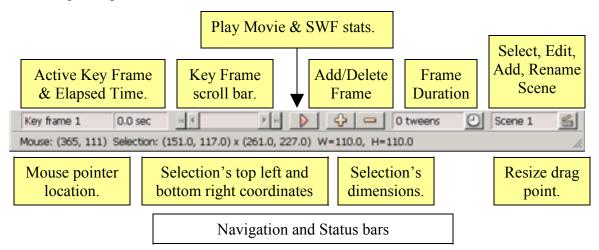
Located below the menu bar is a collection of icons allowing quick access to frequently used menu commands. These features are covered in detail in Part II of the manual.



Navigation and Status Bars

Navigation Bar – Located near the bottom of the screen, these tools allow you to navigate, create and delete Key Frames and Scenes. You can also use the PageUp and PageDown keys to move to previous and next Frames, respectively. Frames and Scenes are discussed further below.

Status Bar – This context sensitive display has information on the current tool's position and a selected shape's physical dimensions and location on the Stage. The location and dimension units are pixels/pts.



Flash uses a Cartesian coordinate system. The origin point (0,0) on the stage is located at the upper left hand corner. Within movie clips and button states, the origin point is located at the center of the editing area. For an excellent description of Cartesian coordinates in Flash, please see the trigonometry tutorial at actionscript.org.

Play Movie

KoolMoves has an internal player which plays the movie in your web browser as a FlashTM movie on a blank web page or in a stand-alone FlashTM player if you have one (download the browser plug-in from Adobe). You can also single-step through the movie. All of the following commands can also be found in the Play menu.

Play in Web Browser

View your project in your default web browser. This command is also available when editing movie clips.

Play Portion of Movie

Select Key Frames (and Scenes if there is more than one) to view in your default web browser.

Play in Web Browser
Play Portion of Movie
Play in Stand-Alone Player
Set Play Directory
Play Single Step
SWF File Statistics

Play Stand-Alone Player

View your project with an internal player and a Flash[™] player if you have one. If you purchased Adobe Flash[™], you undoubtedly have a Flash[™] player in your program files\Adobe folder. It is named SAFlashPlayer.exe.

Set Play Directory...

You can assign the directory from which movies will play. This command is also available when editing movie clips. This information is preserved between sessions.

Play Single Step

Single step play mode allows you to view morphing changes between each tween and key frame. This analysis can help you to decide if you need more tweens or can do with fewer tweens. To exit single step play, press Esc or the Stop icon.

To move back or advance through the movie by one tween frame, click on the arrow icons. To convert the current tween frame to a key frame, click on the key icon. To open the Capture Movie Frame dialog, click on the camera icon.

K	oolMov	ves - Uni	titled								_ 🗆 🗵
<u>F</u> ile	Edit	Views	Shapes	Points	Effects	Transforms	Frames	Movie	Play	Options	<u>H</u> elp
Key	r frame	94	Twe	en 1) 🔎	Do
					5	-					
Sir	ngle St	ер									
То	stop, p	oress ES	с.								11.

SWF File Statistics

See SWF File Statistics in Chapter 2.

Frames

Key Frame vs Tween Frame

A key frame is a frame that you create yourself. When cartoons are drawn by hand, a master animator typically creates the key frames and an apprentice creates the tweens. In KoolMoves, the software generates the tweens based on the positions and colors of shapes in the two key frames. Tweening occurs when KoolMoves automatically makes one or more frames that go in between two key frames.

Editing and Playing Frames



Inserting a copy of the current frame at the end of the movie or after the current frame is the principle method for growing the movie. The copy

provides the starting point for the next stage of the animation: changing positions of shapes, moving shape points, changing

colors, adding new shapes, etc. When a frame copy is made, the shapes in the copied frame retain a relationship to the shapes in the original frame, which allows morphing to occur.

Additional Commands are available in the Frames menu. These commands consist of adding, deleting, or navigating frames.

The Default Tweens... command changes the default tween value applied to new frames.

The Edit Actions/Sounds... command opens the Frame Actions and Sounds dialog. Use this dialog to add ActionScript coding and sound files to a frame (see Chapter 5, Score/Timeline Data View, for more details).

F	rame Actions and Sound
	Actions Sound
	+, 😭 🗇 ↑ ↓
	Action Script

 Increase Movie Length
 Image: Add Copy of Frame

 Add Copy of Frame to End
 Image: Add Copy of Frame to End

 Add Blank Frame
 Add Blank Frame

 Add Blank Frame to End
 Image: Add Blank Frame to End

 Delete Frame
 PgDown

 Previous Frame
 PgUp

 Default Tweens...
 F8

 Edit Actions/Sounds...
 F8

 Edit Movie Clip Frames
 Ctrl+F

The Edit Movie Clip Frames command opens the selected Movie Clip for editing (see Chapter 11, Movie Clips, for more details).

You can navigate between key frames by moving the frame slider or pressing first frame, previous frame, next frame, or last frame buttons on either side of the slider. PageUp and PageDown will move to the previous and next frames, respectively. The name of the current key frame is shown on the left, along with the length of the movie when that frame is loaded.

Key frame 3	1.2 s	14 4	Þ	ÞI
		First Key Frame		_

Add Copy of Frame to End

Add Blank Frame Add Blank Frame to End You can display a list of all the key frames by clicking the icon in the menu bar or using Views > List of Key Frames. This list can be used for navigating, renaming key frames, and frame editing (cut, copy, paste, and reversing the order of frames). To change the position of one or more frames in the movie or to cut/copy/paste frames, make your frame selections in the list of frames and use the editing commands on the right.

Shift/Ctrl select to select multiple frames. Paste places the cut or copied frames before the currently selected frame. To rename (label) a frame, select the item in the list and click again to get a cursor. Type in the name you want. The window can be resized by dragging the resizing marks in the lower right.

KoolMoves also allows you to copy the Frame Actions associated with a frame when the frame is copied.

The value next to the clock indicates the Frame Duration –

the seconds or tween frames between the current frame and the next. You generally want this number to be greater than zero so KoolMoves will generate smooth transitions (called morphing) between the key frames. Click on the clock to change the frame duration. To speed up action between two key frames, assign fewer

0

tweens (dramatic effects can be achieved with 0 tweens!). To slow down action or to make the animation smoother, assign more tweens.

Key frames can have different frame durations. The default value is applied when new key frames are added. The frame Duration can be changed simultaneously for all key frames or for selected key frames through the List of Frames window.

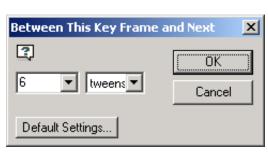
Frame Rate

0 tweens

Movie Speed	×
Movie speed 12 fps	OK
	Cancel

Video and television typically run at 30 fps (frames per second) and film traditionally runs at 24 fps. Most cartoons and anime are done at 12 or 15 fps to save money whereas most high quality animations like Disney feature films use 24 or 30 fps. Faster frame rates produce smoother animation but require more tween

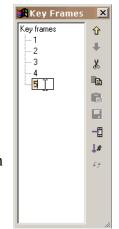
frames to achieve the same length of movie. Frames per second is set in Movie > Movie Speed.



Yes

KoolMoves

?



Do you want frame actions also copied?

No

X

Scenes

Frames can be grouped into Scenes, allowing Flash movies to be organized like, for lack of a better word, movies. Scenes are most useful when breaking up large movies into manageable pieces, or when a project has been allocated across different animators. The current scene is displayed in the Navigation bar.

Click on the Clapboard button to open a popup menu: Click on Scenes to open the List of Scenes window. To view all scenes defined in the current project open the Movie Overview or the List of Scenes window.

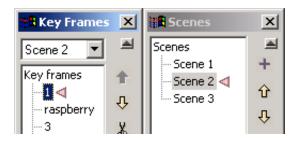




+ Add new scene	Add Scene Name		Scenes	×
小 ① Move selected scene.		Cancel	Scene 1 Scene 2 Scene 3	+ ⁽¹⁾
Cut selected scene.				<mark>۲</mark>
Copy selected scene.				
Paste selected scene.				
Delete selected scene.				



Play selected scene in web browser.



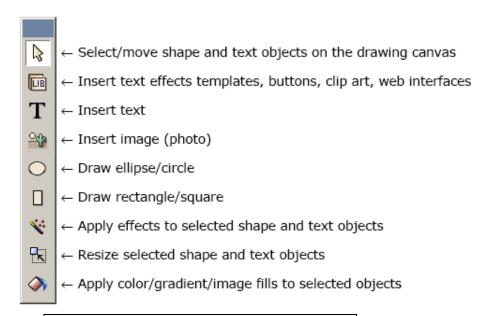
The List of Frames Data View will automatically create a list box of available Scenes when a movie has more than one scene.

Under the Play menu the Play Portion of Feature can also use Scenes to preview a subset of the movie.

ion of Movie					×
Key frame 1	•	Scene 2	•		OK
Key frame 14	•	Scene 2	•		Cancel
	Key frame 1	Key frame 1 💌	Key frame 1 Scene 2	Key frame 1 💽 Scene 2 💌	Key frame 1 💌 Scene 2 💌 🛱

Tools Toolbar (aka Toolbox)

A collection of icons for frequently used object creation and editing tools; toggle toolbox display with Views > Tools. The full set of tools is available in the Advanced and Cartooning interface, while the Basic interface has a reduced set of tools. No tools are available in the Wizard user interface. The tools are covered in Part III of the manual.



Basic Interface Tools Toolbar

	Tools	
Select/move objects \rightarrow	R R.	\leftarrow Select/move points
Insert image, etc. \rightarrow	¥, 6,	← Insert library item
Insert component \rightarrow	📆 T	← Insert text (regular or dynamic)
Create movie clip \rightarrow	ø, •,	← Insert button
Draw line →	/ 0,	← Draw standard shapes (e.g., circle)
Draw point by point \rightarrow	L, C,	← Draw freehand
Add point to shape \rightarrow	+ -	← Delete point
Add curve \rightarrow	+) 🔿	\leftarrow Apply fill (color, gradient, or image)
Apply transform \rightarrow	暍, 크,	← Apply Effect
		\leftarrow Options for selected tool

Advanced and Cartooning Interface Toolbar



Clicking on a tool will select it and change the mouse cursor to reflect the current activity. Many of the tools in the Advanced / Cartooning level toolbar actually have a list of choices – you will see a black triangle in the bottom right corner.



Click and hold on the tool, or click on the black triangle, to open the tool drawer and view the choices.



The tool icon will change to reflect the selected / active tool. Even when another tool is being worked with, the last choice for a given tool is still reflected in the toolbar. The toolbar will reset to the default set of tools the next time you launch KoolMoves.

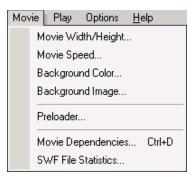
KoolMoves User Manual

Chapter 2 - Preferences and Options

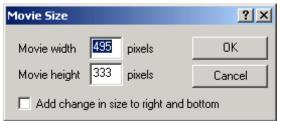
Within KoolMoves you can customize the work environment as well as alter certain settings that affect the appearance and performance of the movie both in the author-time environment as well as in the Flash[™] Player. Parameters that exclusively pertain to the swf output file are covered in the Export Setting section.

Movie Menu

The following are submenu items under Movie. For Example, Movie > Movie Width/Height.



Movie Width/Height



The size of the Stage is set here. In exporting to a HTML file this size should be entered with the .swf movie in the appropriate place. The maximum width and height values are 2880.

Movie Speed

The speed of the movie is set here. The actual speed of the movie may prove to be less than your desired speed because of performance limitations; for example, movies with a lot of transparency will tend to play slower. A value in the range of 12 to 60 FPS (frames per second) is reasonable. The

Movie Speed	×
Movie speed 12 fps	(OK)
	Cancel

actual FPS rate depends on the capabilities of the computer playing the movie. For example, FPS in the range of 18-24 on old machines might be 24-30 on new machines and 40-50 on brand new machines. Older versions of the Flash player become unstable around 35 FPS.

Background Color



Use the Background Color picker to set the background color. See the Coloring / Transparency entry in Chapter 5 for details in setting solid colors.

Background Image

Background	Image		×
	File	D:\Program Files\KoolMoves\Z Graphics\	OK
	Left position	187 📑 pixels	Cancel
	Top position	133 📑 pixels	Clear
	JPEG quality	70 💌	

Click on the folder icon to browse to the image file. KoolMoves will center the image by default. Supported file formats are GIF, JPEG, and PNG.

Preloader

Preloaders give viewers something to watch while they wait for the animation to start. Use the Preload Movie interface and modify the default message or gradient bar settings, or select a KoolMoves fun file to run.

The interface has a preview window; select a connection type and preview the Preloader at different download speeds.

KoolMoves adds an additional 2 frames to the beginning of the swf file on export – name your important key frames to work with action scripting commands.

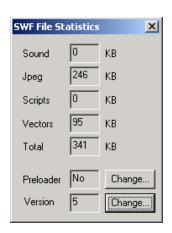
Movie Dependencies

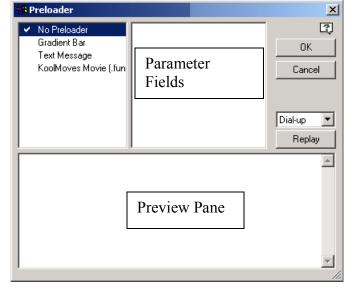
Dependenci	es		×
Туре	Location	Object	Frame
image image	mycat.jpg mycat.jpg	S1over S1	
•			

Dependencies displays a list of all files used or referenced by the movie -- images, sounds, imported swfs, and go to URLs. This is useful for spell checking file paths and identifying files that need to be included with the movie.

SWF File Statistics.

The File Statistics window summarizes the dynamic factors that affect movie performance. As a diagnostic tool, this screen allows you to quickly identify performance killing movie elements. Additionally, it has shortcut buttons to open the Preloader and Version dialog windows.





File > Preferences

The following are items in the File > Preferences dialog window.

View Preferences:

User Interface Style. This allows you to select the interface you feel most comfortable with. Advanced skills include masking, shape point manipulation, and ActionScripting. Cartooning skills include bones and non-linear morphing.

Draw alignment grid on top. If this option is selected, the alignment grid will display on top on the visual elements. If this option is not selected, the alignment grid will display under the visual elements but over any background image.

Grid Transparency. Adjust the grid appearance from dark grey (0) to fully transparent (100).

Preferen	nces	×
View	Drawing/Selection Toolbars Play Libraries Audio Editors Image E	
0	er Interface Style Wizards Basic Advanced	
- Grid	Cartooning d Draw alignment grid on top d transparency 50 🚆 %	
Can	yout nvas	
	Cancel	

Canvas color. This is the color of the application window outside the movie frame area.

Font size. This font size setting affects the Data View windows and some of the dialogs.

Drawing/Selection Preferences:

Draw shapes as symbols. With this option checked, shapes are drawn as symbols. This saves a great deal in the size of the final swf. The downside is that points to the shape cannot be selectively moved in a frame without affecting other frames. If you are doing character animation, turn off this option.

Remain in drawing mode after drawing a shape. If this option is selected, you are able to repeatedly draw shapes without having to reselect the shape drawing tool. If this option is not selected, the select/move shape tool becomes the current tool after drawing a shape.

Prefere	ences			X
View	Drawing/Selection S	ave Toolbars F	Play Libraries A	udio Editors
I Sele	wing Remain in drawing mode Enable OpenGL renderir Draw shapes as symbols Automatically add newly ection Retain shape/point selev	ng (requires restart o s (uncheck for cartor created movie clips	f program to enable) oning or for shape m and buttons to symb	orphing)
Loc Glo	do Levels al changes 3 bal changes* 2 high number may require	▼ ■ a large amount of n	nemory	
			ОК	Cancel

Automatically add newly created movie clips to symbol library. Useful when designing components or otherwise want your movie clips to have linking capabilities.

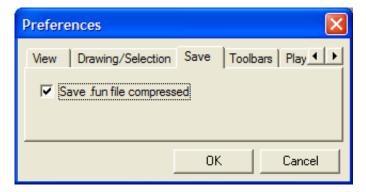
Enable OpenGL.... OpenGL is an open source application programming interface used by KoolMoves for better anti-aliased rendering of shape borders. Widely supported and efficient, it requires adequate hardware for best results – this option may not operate properly on windows 98 or ME operating systems.

Retain shape/point selection on changing key frames. If this option is selected, your current shape or point selection will be preserved when you select a different key frame. If this option is not selected, the current shape or point selection will be lost when you select a different key frame.

Undo Levels. Users can set the Undo history level.

Save Preference

Starting with KoolMoves version 5.6, users now have the option to save .fun project files in a compressed format. Uncompressed fun file will open in newer versions of KoolMoves, but compressed fun files can not be opened with older versions of KoolMoves.



Toolbars

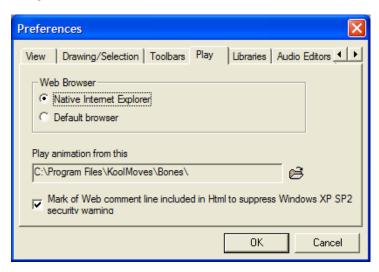
In Toolbar Icons, 1) the first checkbox refers to the Actions and Sounds Overview, the List of Shapes and the List of Frames icons in the Menu toolbar, and 2) the navigation toolbar can be placed at the top or bottom of the GUI. (These actions will take effect the next time KoolMoves is re-opened.)

Uncheck the Scenes Icon box to remove the current scene indicator field and the Scenes icon from the Navigation bar.

Preference	es							×
View [Drawing/Selecti	on Toolbars	Play	Librarie	s Auc	dio Editors	Image E	•
- Toolba	ar Icons						·	
🔽 İn	clude 3 addition	al icons on ma	in toolba	ļ				
Toolb	ar positioning	Frame navigal	ion toolb	ar on bott	om	•		
	Note: Requires that application be re-opened to take effect. Inclusion of extra icons requires screen resolution of 1024 or greater.							
Scene	Scenes Icon							
🔽 In	clude on Naviga	tion Toolbar						
- Positic	on Bounds							
🔽 Lir	mit positions to n	ionitor area (tu	rn off for	dual mon	iitors)			
						OK	Cancel	

Uncheck the Position bounds box if you have dual monitors and wish to spread the KoolMoves interface components across the two monitors.

Play Preferences:



By default, animation preview uses the Windows internal Internet Explorer web browser. You can override this to use your default browser.

You can assign the directory from which movies will play. Every time you open a fun file, the play directory will reset to this directory. This can also be set via the menu with Play > Set Play Directory...

You have the option to add or not add the Mark of Web comment line

<!-- saved from url=(0013)about:internet -->

to all generated html files including the temporary files used for preview. With the introduction of Windows XP SP2, there have been changes to Windows which affect Flash animation. A reference for this is http://www.adobe.com/cfusion/knowledgebase/index.cfm?id=tn_19542. A more general reference is

microsoft.com/technet/prodtechnol/winxppro/maintain/sp2brows.mspx.

Library Preferences:

Here you can change the default file directories for each of the designated libraries.

Preferences		X
View Drawing/Selection	n Toolbars Play Libraries Audio Editors	Image E
Text effects folder	D:\Program Files\KoolMoves\Text Effects	B
Web interfaces folder	D:\Program Files\KoolMoves\Web Interfaces	B
Clip art folder	D:\Program Files\KoolMoves\Clip Art	B
Animated clip art folder	D:\Program Files\KoolMoves\Animated Clip Ai	ß
Button folder	D:\Program Files\KoolMoves\Buttons	B
	OK	Cancel

Audio Editors Preferences:

Preferences		×
View Drawing/Se	election Toolbars Play Libraries Audio Editors Im	age E 🔸 🕨
Program	Location	
Add	Edit Delete	
	ОК	Cancel
	ОК	Cancel

You can assign up to 6 audio editors that can assist you in viewing and editing sound for frames and buttons. You do this by pressing the Add button. A popup will be displayed. Press the browse button identified by 3 dots and select the .exe corresponding to an audio editor.

In the course of adding sounds to frames and buttons, you can press the Edit Sound

button and a menu will appear with the sound editors you assigned. Selection of a sound editor from the menu will invoke that editor. See the Audio Editors entry in Appendix D for a discussion of recommended freeware and shareware audio editors.

Image Editors Preferences:

You can assign up to 6 image editors that can assist you in viewing and editing images. You do this by pressing the Add button. A popup will be displayed. Press the browse button identified by 3 dots and select the .exe corresponding to an image editor. The image editors are accessible through the paintbrush icon on the Image Fill page of the fill popup.

Preferences	×
Libraries Audio Edit	ors Image Editors Bones Messages/Warnings Scripting
Program	Location
Draw	D:\Program Files\OpenOffice.org1.1.2\program\soffice.exe
Add	Edit Delete
	OK Cancel

Bones Preferences:

Color

Set the color for animation bones. Click on the color box to open the Color Option dialog.

Messages/Warnings

Set Checkboxes to control display of selected warning messages.

Preferences
Play Libraries Audio Editors Image Editors Bones Messages/Warnings S ► Display These Messages and Warnings Image Editors Make the change? Image Editors Image Editors Make the change? Image Editors Image Editors Make the change? Image Editors Image Editors Image Editors Image Editors Image Editors Make the change? Image Editors Image Editors Image Editors Image Editors Make the change? Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors Image Editors I
OK Cancel

Scripting

Set the Font for the Action Script Editor.

Options Menu

The Options Menu allows you to customize the appearance and actions of the stage and canvas.

Reposition Movie Frame

Click and drag cursor on canvas to permanently reposition it. As opposed to the Pan command, screen refreshes will not change the location of the stage after a Reposition.

Pan Canvas



To preserve valuable drawing area, KoolMoves does not have scrollbars. To navigate over the drawing area, particularly in the case of zooming,

click on the Pan button (mouse pointer will change to a hand). Depress and drag the left mouse button to move the entire canvas.

Zoom Commands

On the Menubar you can also click the Zoom icon to open the Zoom menu, or click on the

Magnification list box (Chapter 6) to change magnification.

Zoom Dragged Rectangle – centers screen on selected area and zooms in on that area.

Zoom In on Click – centers screen on click point and increases magnification by one.

Zoom Out on Click – centers screen on click point and decreases magnification by one.

No Zoom – equivalent to setting magnification to 1. Stage position is reset to last position set by Reposition Movie Frame command.

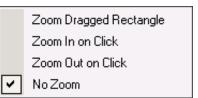
Grid

For alignment assistance, you can turn on a grid and set its size with Options > Grid. Display of the grid on over or under the animation is set in File > Preferences. To further assist in aligning visual elements, turn on Options > Snap to Grid.

Show All Masking (Ctrl-M)

Toggles display of masking in author time environment.





View Associated Joints

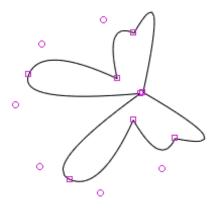
See the Bones entry in Chapter 6 for a discussion of shape joints.

Antialiased Rendering

High quality rendering means anti-aliasing. Anti-aliasing is an image filtering technique which alters the boundary of an image to eliminate what are called the "jaggies".

Wire Frame Rendering

Use this to turn off all appearance settings and just see the outline of your shapes.

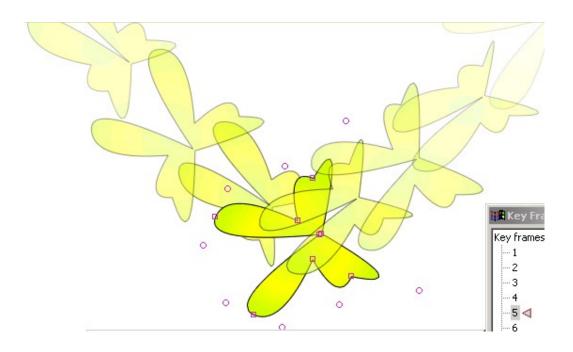


Onion Skinning

Onion skinning allows you to view, in addition to the current frame, frames before and after the current frame. As the frames are further away from the current frame, the dimmer they appear. Onion skinning can be used to observe the movement or changes in the animation and ensure that the animation is fluid. To

Onion Skinning Properties		×
Number of frames before current frame	4 ×	OK
Number of frames after current frame	4 ×	Cancel

turn on onion skinning, select Options > Onion Skinning.



File > Export Settings

Flash Movie (SWF File)

Export Settings affect how the final swf performs in the Flash[™] Player.

JPEG Quality

A number can be selected from a low of 20 to a high of 95. A low value results in poor image quality but relatively small file size. This value is set in File > Export Settings and in Movie > Background Image. Despite the name, this quality setting applies equally to GIF, PNG, and other types of imported images as well as JPGs.

Sound Compression

The Flash file format provides different levels of sound compression for WAV files expressed as the number of bits (2 - 5) used to compress 16 bit sound where 2 bits provide the lowest quality and 5 the highest.

Flash Version

KoolMoves will automatically select the minimum Flash Player version that accommodates the functionality in the animation and action scripting, ranging from Flash 6 to 8. Click on the Reason button to see what element of the movie influenced the decision.

Resource Loading

By default, KoolMoves exports all images and sounds to the beginning of the main movie or the movie clip which references those images and sounds. You may want to change this so they load as needed rather than at the beginning. The first method causes a delay in starting the movie; the second method can cause jerkiness as the movie plays.

Compression

Flash 6/7/8 movies can be Zlib compressed in order to make them much smaller (about a factor of 2 on average). The disadvantage is that the movie will appear blank if the Flash player is version 5 or lower. Default value is on starting with KoolMoves 5.0.

Dynamic Text

You can ignore the backward compatibility option unless your movie is exported as Flash 6/7/8. Flash 6/7/8 handles dynamic text differently than Flash 4/5 because of the introduction of action script text fields. In Flash 4/5, the variable name was the object name but in Flash 6/7/8 an instance name was also added. So, txt1 = "hello" works for a swf exported as Flash 4/5 but not for a swf exported as Flash 6/7/8 unless this check box is checked.

Interface Components

There are currently a total of 7 components: scroll pane, list box, check box, push button, scroll bar, database query object, and tool tip; they can be added through the Tools Toolbar or through ActionScript (see Components section in Examples folder for ActionScript examples). There are detailed examples and readme files in the Components section in the Examples folder.

Interface components require Flash 6 player or later. If you add components via ActionScript and not through the KoolMoves GUI, be sure to check "include interface components" in Export Settings so that KoolMoves will add to your exported swf all the component creation, draw, and interaction routines.

Local Playback Security

Selecting "Access Local Files Only" lets the published SWF file interact with files and resources on the local system only. Selecting "Access Network Only" lets the published SWF file interact with files and resources on the entire network.

HTML File

These options affect how the movie will act and appear in a browser.

Movie Loops

To set the looping of the Flash movie to on or off in the HTML file, set the looping property in File > Export Settings > HTML Settings. Click on the menu item to toggle its value. This parameter sets the value of the loop parameter in the JavaScript in two places in the HTML code. Alternatively, you can put a stop action at the last frame using Views > Actions and Sounds.

Transparent Background

For this feature to allow a web page's background to show through the movie's background, you will need to use the WMODE parameter in the html object code on your target webpage. The quick and dirty solution is to have KoolMoves create an HTML page when you export your project to a swf file, and copy the applicable code from that html file to your target web page.

KoolMoves User Manual

Chapter 3 – Help Features & Tutorials

There is extensive context sensitive help available for most dialog screens. Look for the help icon below the window name.



In addition to the Configuration Wizard covered in Chapter 1, KoolMoves has additional user assist dialogs (Interactive Tutorial, Simple Task Assistant) available under the Help Menu, and a simplified interface style (Wizard) for creating Banners, Text Effects, Image Effects and Slide Shows.

Help Menu

The Help menu provides many levels and types of support, from hyperlinks to the online tutorials and examples located at the KoolMoves website, to tutorials and step by step guides incorporated within KoolMoves. In addition to these, you can view samples created with KoolMoves by going to the Examples folder (\Program Files\Koolmoves\Examples).

The tutorials and wizards address basic animation tasks and internet related operations and exist to assist the new KoolMoves user in quickly creating quality animations and exporting them to the web.

For tough questions, you can tap into the expertise of many people at once on our forum at

www.flashkit.com/board/forumdisplay.php?forumid=24. The forum is also a great place to share ideas, get feedback, and find out the latest news about KoolMoves, Flash and related topics. KoolMoves users are encouraged to register with Flashkit and peruse the available Flash resources.



Help Topics



Click on this to open the HTML Help files included with the KoolMoves installation. There are Table of Contents, Index and Search tabs.



Interactive Tutorial

Interactive Tutorial on Ho	w to Use KoolMoves
The purpose of this Guide is and images in their movies, I	to provide a quick start to using KoolMoves. Since most people use text et's start there.
Which would you like to add • Text	first?
○ Image	Click Next.
	< <u>B</u> ack <u>N</u> ext > Cancel Help

The Interactive tutorial steps the new user through the author time environment in creating text and image objects, placing them on the stage, and then applying effects.

Simple Task Assistant

The Simple Task Assistant (STA) provides menu driven assistance in completing moderately difficult tasks. Select a task and click on OK to continue.

Unlike the Interactive Tutorial (which illustrates how a task is done without assistance), the STA compresses the actions required into a minimum number of interactive screens; after completing each screen, click on Next until the task is completed. This allows the new user that needs to create a movie, and doesn't have time to read the manual or work with the tutorials / examples, to achieve the list of available tasks in the least amount of time.

Simple Task Assistant	×
Select Task Add image Add text Add text Add frame sound or action Add frame sound or action Add frame sound or action Add frame sound or action Add frame sound or action Change object color Change object properties Convert to button Create over/down button state Edit button over state Edit button over state Edit button down state Lengthen movie Play movie Add Flash movie to web page	Cancel

FAQ (Frequently Asked Questions)

Click on this to check out the KoolMoves FAQ file, or just check out Appendix F in the manual.

KoolMoves Website...

Click on this to open the KoolMoves website with your default browser.

Support Forum...

Click on this to open the KoolMoves help forum on the Flashkit website with your default browser.

Email Us...

Click on this to email support@KoolMoves.com with your default email application.

Tip of the Day



Useful stuff to know that you can learn a little bit at a time. Uncheck the "Show tips on startup" box to turn this feature off.

Online Tutorials and Examples

- www.koolmoves.com/support.html a hyperlink located in the Help menu. KoolMoves users can contribute tutorials and examples to this site.
- www.necromanthus.com/main.html has many ActionScript examples.
- www.bridel.org has many ActionScript examples.
- www.waterlijn.info/km has many ActionScript examples.
- www.flashkit.com/tutorials/index.shtml has a wealth of tutorials on Flash techniques, will require some adjustments to work with KoolMoves.

Purchase

Provides a link to www.koolmoves.com/purchase.html, where the user with a demo copy can purchase a registration key.

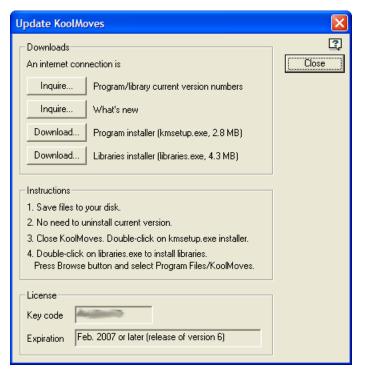
Register

Use your purchased registration key to make your demo copy of KoolMoves fully functional.

Update Software

Use the Update Wizard to check for the latest versions of the KoolMoves program files and libraries. You can also find when your upgrade policy expires .

Contact information is located in the context help window (question mark in the upper right corner).



About KoolMoves

In addition to information about the KoolMoves application, this window displays the registered user's name and registration number.



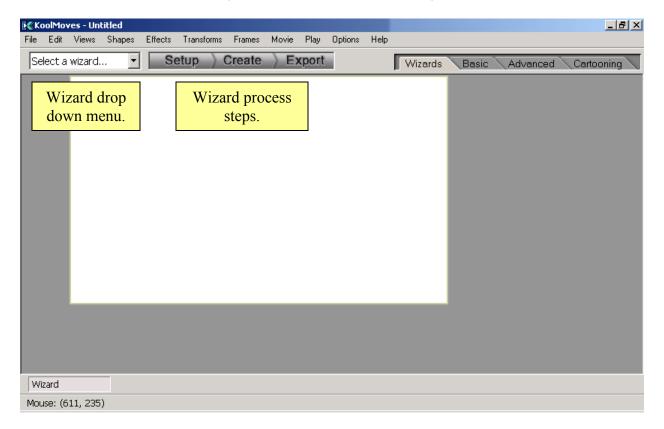
Wizard Interface Style (aka Wizard Mode)

Click on the Wizards tab to change the Interface Style. A Hint window will

open, displaying useful tips on how to use the Wizards Interface Style.

Hint 🗵	
 a) Select from the drop down window (upper left) to initiate a wizard. b) Start with the banner wizard to set your movie size properties. c) Use the Create step to edit your movie move objects around, change colors, add key frames, preview your changes (Play button at the bottom), etc. d) Select the Image and Text Effects wizards to add effects to the current key frame. e) Double-click on an object to view its properties. 	The hints describe the general process of using the Wizard Mode to create a movie.
f) Right-click on an object to open a menu of frequently used operations. g) Use the Export step to assist in adding your animation to your web page. ✓ Don't show again	Check the "Don't show again" box if you do not want to see this hint box the next time you enter Wizard Mode.

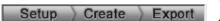
The Wizards Interface Style is much simpler than the Advanced Mode displayed in Chapter 1: the Toolbox, Menu Toolbar and Navigation Bar are completely missing (however, the Basic Toolbox will be opened in the Create step to edit effects when applicable – more on that later). Meanwhile, a few new features (mentioned in the Hints window) have been added.



Three Steps – Setup, Create and Export

Each wizard is designed to help the novice KoolMoves user achieve a specific goal. Selecting a wizard from the drop down menu will launch that wizard's Setup step. To manually launch a wizard, click on the Setup button. The Setup step is unique for each wizard.





Wizard mode has three buttons prominently displayed at the top center of the GUI – Setup, Create and Export. If you have

canceled out of the Setup or Export steps, you can restart the guides by clicking on the Setup and Export buttons.

The Create step exists for the sole purpose of allowing the user to do some free form editing. Clicking on the Create button opens the Basic Interface Style Toolbox. The Basic Toolbox is a stripped down version of the Advanced and Cartoon Interface Style Toolbox. These tools and interfaces are covered in depth in other parts of the manual. In descending order there are:

- Select/Drag tool,
- Library interface,
- Static Text Box tool,
- Import Image interface,
- Ellipse Shape tool,
- Rectangle Shape tool,
- Shape Effects tool,
- Resize effect and
- Fill effect.

Note: Do not change Interface Styles in order to have more toolbox options unless you are willing to lose your wizard session settings.



Exporting a movie to a web page involves first saving your project to a Flash file (SWF), placing the swf file in the same directory as the target web page, and adding JavaScript so the movie displays properly on the target web

page. Click on the Export button for a quick step-by-step guide to exporting your project to a web page.

The export process starts by opening an assessment window to identify which hint files you will need and what assistance to provide. If you do not have an html editor, KoolMoves will attempt to add the appropriate JavaScript to your target web page. If you have one of the html editors listed in the assessment screen (with the exception of FrontPage), KoolMoves will display recommended JavaScript code that you can copy and paste to the target web page. FrontPage users will be directed to a hint file that shows how to import the movie through FrontPage.

Your answers to the Web Skills and Tools questionnaire are saved for the duration of the session; you will need to complete this window each time you move out of and back into the Wizard Interface Style. Complete the form to the best of your knowledge and click on Next.

ssess Web Skills and To	ols		×				
This wizard contains into an internet connect at t	ernet links to tutorials and us nis time is advisable.	seful software so creating					
Rate your HTML prog	ramming skills						
C Poor to mediocre							
C Good to excellent							
Select your HTML edi	tor						
C CoolPage	O Homestead	C None/Other					
C Dreamweaver	O NetObjects Fusion						
C FrontPage							
 I don't know what I don't own a ftp provide 							
< <u>B</u> ack	<u>N</u> ext > Cancel	Help					

The next few screens will depend on your preceding answers concerning your skill level, the HTML editor that you have selected and how familiar you are with File Transfer Protocols (FTP).

If you have Poor/Mediocre HTML programming skills and did not specify an html editor, KoolMoves will load the Add Flash Movie to Web Page - Generic Approach window as shown below. This window consolidates information entry and output that, if done manually, would require several separate steps and some web page coding.

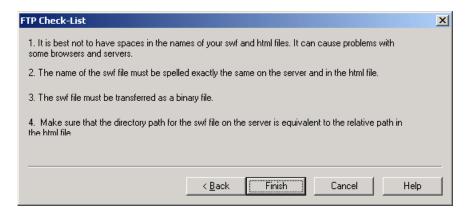
- 1. Browse to the web page that will contain your movie. Remember that your swf file needs to be saved to the same folder as the target web page.
- 2. If you haven't already, take this opportunity to export your project to a swf file. You can also choose to export a pre-existing move.
- 3. Select a location where your swf will be placed in the target web page. This can always be changed later with your web page editor.
- Set the loop and background transparency options for your swf file. For information on the html coding required to ensure this feature works, please see the Transparent Background entry in Chapter 2 – Preferences and Options.

dd Flash Movie to Web Page - Generic Approach	×
1. Select existing web page	?
Web page 🧭	Save As
- 2. Select Flash movie	Test
Create Flash movie (.swf file) from current animation	
Flash movie	
Note: The Flash movie must be in the same directory as the web	
Select layout Animation inserts at top of web page	
C Animation replaces web page image	
- 4. Select option	
Movie loops	
Transparent background	
< <u>B</u> ack <u>Next</u> Cancel Help	

If you specified an HTML editor other than FrontPage, then instead of the Generic Approach window shown above, you will get the Display Web Page Code window. Use this screen to capture sample JavaScript and HTML code that has been generated for the specified movie, and place this code in the target web page via your web page editor.

Display Web Page Code	×
Select Flash Movie	2
Flash movie 🦯 🧭	
Add to Web Page	7
O Javascript O HTML including Javascript	
Copy to Clipboard	
< <u>B</u> ack <u>N</u> ext > Cancel He	lp

As mentioned earlier, if your html editor is FrontPage, it is recommend that you follow the provided tutorial and have FrontPage insert all necessary JavaScript coding. The final window has some general html/FTP hints. Click on Finish to close the Export step. If the Generic Approach worked, the target web page should have JavaScript linking to the specified movie.



Once a wizard sequence of windows has been started you are not required to follow the steps to the end, but can cancel at any time. On the other hand, if your movie consists entirely of text and or image effects, click on the Export button when you are ready to save your project and export a movie.

If you've edited the movie using the Basic Toolbox, there is a chance that the interface style may have changed from Wizard to Basic. If you want to use the Export button to save your project and export a movie, click on the Wizard tab and then select the Banner wizard to make the Export button responsive. You will be re-entering the Wizard Interface Style, so you will need to re answer the Assess Web Skills and Tools questionnaire.

Banner Wizard

The Banner Wizard is the simplest	, e	M	lovie Settings			×
the user in defining the movie's sta background color. It has a drop do	•		- Movie Size in Pixe		OK	
banner / movie sizes.			Standard	88 x 31 💌	Cancel	
	88 x 31 120 x 30		O User define	Width 500		
	120 x 50 120 x 600 230 x 33			Height 300		
	234 x 60 468 x 60 600 x 400		Background color			

Once you click on OK, the Banner Wizard will advance to the Create step and the Basic Toolbox will be available.

The Text and Image Effects wizards guide the user in adding effects to the movie. The Slide Show wizard is the most complicated, guiding the user in defining images to be use and the transition timing.

Slide Show Wizard

This wizard creates a series of key frames to hold slide show images. The source images can be GIFs, JPGs or PNGs and must be present in a single folder. The wizard queries for the folder name, allows you to put the images in order and then select the duration each image will display. A simple fade in/fade out transition can also be applied.

After the step-by-step process ends, you might want to add play buttons and add stop actions to the movie to give the end user control. The slide duration can be edited in the List of Frames using the Frame Duration icon.

Step 1: Select Folder with Slide Images	×
This wizard creates a slide show from a set of images. The images are in a single folder which you select below:	
Image Folder	
C:\Graphics Work Area	
Slide Show Construction	
Action script based (recommended)	
C Key frame based *	
* It uses a lot of memory and has few transitions. Close other large applications and allocate a generous amount of virtual memory.	
< <u>B</u> ack <u>Next</u> Cancel Help	

In Step 1, select the folder that contains your slide show images.

Unless you are planning on exporting tween captures to create an animated gif, or adding features to the slideshow that require key frames or tweening effects, it is best to use the ActionScript version. This will insert a component that includes navigation controls, and only take up one Key Frame.

In Step 2, arrange the images in the desired sequence. Select a file name and click on the up or down arrows to change its relative position.

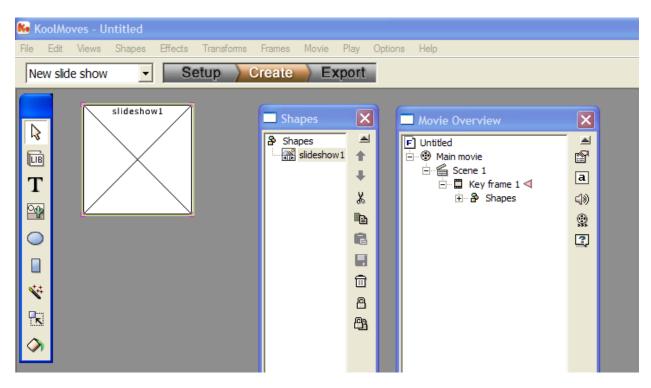
Step 3: Timing		×
	3 Image: Constraint of the second s]
	< Back Next > Cancel Help	

St	ep 2: Arrange Slide Images	×
	web1.jpg web2.jpg web3.jpg web5.jpg	ት ት
-	< <u>B</u> ack <u>N</u> ext > Cancel Hel	p

In Step 3, set the slide duration and whether or not there will be a transition effect applied to this slide.

	Step 4: Movie Settings				
In Step 4, set the movie dimensions and background color.	Step 4: Movie Settings Movie Size in Pixels Image: Fit to largest slide Image: Color Image: C				
Step 5: Finish					
	Click on Finish to enter the Create Step.				
4 slides created < Back	In this particular project I was evaluating different images for use on a web page, so I organized them into a slideshow for easy comparison. Use the Create step to edit and preview the slide show.				

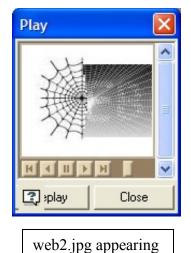
You've now created a single frame movie, though the ActionScript transition effects will make it look a lot larger.



Double click on slideshow1 to open the Properties data view and set the slideshow component options.



The SlideShow component is covered in detail in Chapter 14. For now, it is just important to understand that if the Key Frame based option had been selected in Step 1, all navigation controls would have to be added by the animator.



To illustrate a few things, let's see what we get when we create the same slideshow, but this time choose the Key Frame based option and the Fade In effect. For one thing, there would be a key frame for each image, and a tween frame consistent with the settings at the time the slideshow was created. Open the Views menu, the Score/Timeline, List of Shapes and List of Frames Views.

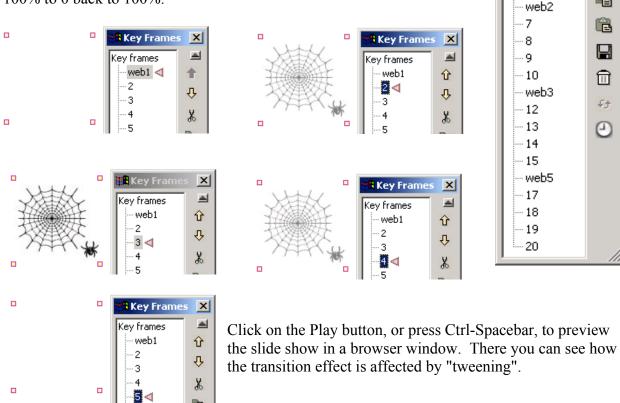
👷 Shapes	×
Shapes	
web1	1
	+
	X
	B
	8
1	11.

The List of Shapes displays what is present on the current key frame, while the Timeline view displays all the objects in the movie, and on which frames they are present. You can see in the timeline that each image is used five times. The images are initially transparent because of the Fade In effect.

Sco	re/Timeline		×
٢	જે⇒ ↔ +‡ 🕄	20	
*	web5	00000	
	web3	00000	
<u> 7</u>	web2	00000	
	web1	<mark>0</mark> 0000	
-		I I	

In the List of Frames, you can see that the key frames where the images are first used have been named for the image. This is a built in navigation and programming aid, to help you add features like buttons to control the flow of the slideshow.

In the sequence of images below, the shape web 1 has been selected. As we step through the frames, you can see web1's transparency range from 100% to 0 back to 100%.



When you are through editing your slide show, the next step is to save your project to a fun file and export the movie to a .swf file. To take advantage of all the features available in KoolMoves, it is recommended that you read the File > Export Settings in Chapter 2 and File > Export Menu in Chapter 4. Once the project has been exported to a movie, use your web page editor to position the slideshow on the desired web page.

However, for a detailed step-by-step guide to exporting your slideshow to a .swf file, click on the Export wizard button as discussed earlier in the Three Steps – Setup, Create and Export entry.



Key Frames

web1 <

Key frames

2

3

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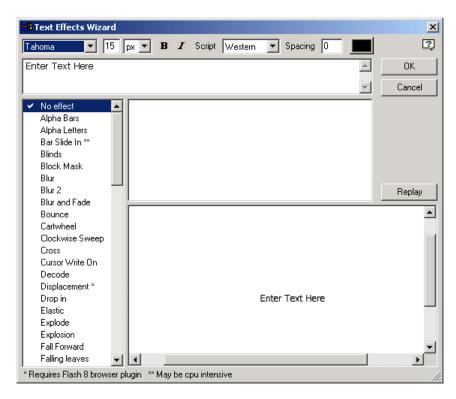
Θ

Text and Image Effects

The Text and Image Effects wizards guide the user in adding text and image objects to the movie and applying motion script effects to the objects. These effects cannot be combined with regular fade, scale, spin, or rotate effects and a maximum of one effect can be selected. Applying motion script to static text will disable a drop shadow effect. To remove an effect, select "No effect" in the list of effects.

A motion script effect relies on action scripting to create the effect in the Flash movie. The effect is not viewable in the KoolMoves editing screen or its internal player, but can be viewed in the preview window associated with the motion script or in a web browser.

In the Text Effects interface, 1) select font details, 2) enter your text, 3) select the name of the effect from the list of effects, and 4) click on OK.



In the Image Effects interface, 1) select an image file, 2) set the transparency of the image, 3) select the name of the effect from the list of effects, and 4) click on OK.

📲 Image	Effects							×
Image file	Select image	file			ß	Transparency (%)	0	2
🖌 Nolefi								ок
Alpha								
	Letters							Cancel
	ide In **							
Blinds								
	Mask							
Blur								
Blur 2								Replay
	nd Fade							
Bound								-
Cartw								
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	r Write On							
Deco								
	acement *							
Dropi								
Elastic								
Explo								
Explo:								
	orward							
	g leaves							
Flame	-							
	to Center							-
Flow of	on Curved 🔄							•
* Requires	Flash 8 browse	r plugin 🛛 ** l	May be cpu int	ensive				1.

These wizards stop with the Create step and open the Basic Interface Style Toolbox. This allows you to reposition or otherwise edit the object you've just added, and also allows you to add additional Text and Image effects to your movie. To launch the same wizard a second time, click on the Setup button. To switch from the text to the image effect wizard, or vice versa, use the drop down menu. Once you are ready to save you project and export a movie, click on the Export button.

Help in Other Languages

There are a number of machine translated versions of help in different languages on the KoolMoves support page. There is an old version of help for KoolMoves in Spanish at www.geocities.com/powerxrv/Koolmoves/index.htm.

Part II – Menu Toolbar & Menu Commands

Chapter 4 – File Operations Chapter 5 – Data Views

Chapter 4 – File Operations

In addition to file actions covered by the Menu Toolbar, this chapter includes file actions not addressed by the KoolMoves GUI outside of the menu.

File > New (Ctrl-N)

Clears most KoolMoves buffers and resets the KoolMoves GUI.

File > Open (Ctrl-O)

Opens a Windows Explorer type dialog to browse and open a .fun file.

File > Save (Ctrl-S)



On first save, this command opens a Windows Explorer type dialog to save current project to a .fun file. On subsequent saves, a backup file is created before the existing .fun file is overwritten. The name of the backup file is ~backup.fun.

File > Save As

No Icon. This command opens a Windows Explorer type dialog to save current project to a .fun file.

File > Export Menu / Export Icon

The File > Export menu and the Export icon menu are very similar. The individual actions are covered below.

	Add Flash Movie to Web Page (Wizard)
	Add Flash Movie to Web Page (Expert Mode)
	As SWF (Flash Movie)
	As SWF (Flash Movie) and HTML Page
	As SVG (Scalable Vector Graphics)
Ō	As Frame Captures

Diagnose Server Problems...

0

Export as SWF (Flash Movie)... Export as SWF (Flash Movie) and New HTML Page... Add Flash Movie to Web Page (Wizard)... Add Flash Movie to Web Page (Expert Mode)... Export Settings... Capture Movie Frames...

Eolas Patent Issue

If you see a "Click to activate control" message when mousing over a Flash movie on a web page, this is because Internet Explorer was altered in April 2006 in compliance with a patent dispute ruling (Eolas patent) handed down in 2003. Adobe Flash, QuickTime, RealOne Player, Acrobat Reader, Sun's Java Virtual Machine, and Windows Media Player along with applications that embed into Web pages, running on Windows XP SP2 systems, are affected.

A fix developed by Adobe is included in the code provided by KoolMoves. This fix requires that a separate javascript file, called AC_RunActiveContent.js, be included in the same folder as the html file. This file can be found in the KoolMoves\IE ActiveX Fix\ folder.

Ftp the .swf, .htm/.html, and .js files to your web server. The .swf file is binary and the name should be spelled exactly as you have it on your local disk. Avoid spaces in the name because spaces are a problem for Netscape. Ftp is shorthand for file tranfer protocol which is the method used to transfer files from your computer to internet file servers. There are many programs which are easy to use some of which are free which will perform this transfer. If you don't currently have a program to ftp files, there are many free ones to choose from at www.snapfiles.com/Freeware/network/fwftp.html.

Add Flash Movie to Web Page

To run a Flash movie from your web page involves: (1) creating a swf file with KoolMoves and (2) adding JavaScript code to your web page which references the swf file. KoolMoves will create the JavaScript code for you. Both the swf file and your html file with the JavaScript are uploaded to your web server. This is analogous to creating an image in an image editing tool and adding code to your web page to display this image. Look under File > Export Movie for a number of different approaches to creating swf files and adding the necessary code to your web page. We recommend using the Wizard Mode Export step (see Chapter 3) if you have any problems.

Export as Frame Captures / Capture Movie Frame

This function performs a screen capture of the current key frame, all key frames, or all frames including tweens, and saves the images to sequentially named files. The screen captures are saved in .bmp, .jpg, or .png format.

Capture from web browser

This option allows you to capture what will actually be displayed by your browser.



Select the frequency of screen capture and the number of screen captures. The duration of the movie is indicated but may be quite wrong. The duration is calculated from the number of main movie frames and the frame rate but this does not take into account the time it takes for embedded swfs and movie clips to play. Therefore, it may be necessary to manually increase the number of screen captures in order to capture the entire movie.

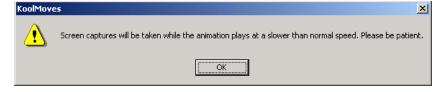
Note: Bitmap captures tend to be large.

Capture Options	×
2	
Timing	OK I
Duration of movie, sec. * 75.25	<u></u>
Seconds between capture 1	Cancel
Number of captures * 753	
- Save As	
C BMP	
C JPG	
PNG	
* See context help	

Save As	<u>? ×</u>
Save jn: 🔄 Sep05_Presentation	- 🖬 🎦 → 🔽
 14 research Backgrounds Graphics pres_w_music_data presentation_data Sounds 	 13f.png 2-screen-populated-1.png 7-screen-enlarged.png 7-screen-populated.png 7-screen-populated-1.png Add_to_PAB_confirmatn.png
File name: capture1.png	<u>S</u> ave
Save as type: .png	Cancel

Select a target folder and file name for the first capture. Subsequent captures will be named sequentially based on this file name.

Saving screen captures while calculating tweens creates a load on your processor – the movie will run very slow.





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	Name	Size	Туре	Modified 🗸	
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	🗃 capture00025.png	127 KB	PNG Image	10/10/2005 1:28 PM	
Sep05_Presentation	🗃 capture00024.png	127 KB	PNG Image	10/10/2005 1:28 PM	
	📑 capture00023.png	127 KB	PNG Image	10/10/2005 1:28 PM	
Select an item to view its description.	🗃 capture00022.png	127 KB	PNG Image	10/10/2005 1:28 PM	
See also:	🗃 capture00021.png	126 KB	PNG Image	10/10/2005 1:28 PM	
My Documents	🗃 capture00020.png	126 KB	PNG Image	10/10/2005 1:28 PM	
My Network Places	🗃 capture00019.png	126 KB	PNG Image	10/10/2005 1:28 PM	
My Computer	🗃 capture00018.png	220 KB	PNG Image	10/10/2005 1:28 PM	
iny compacer	🗃 capture00017.png	244 KB	PNG Image	10/10/2005 1:28 PM	
	🗃 capture00016.png	244 KB	PNG Image	10/10/2005 1:28 PM	
	🗃 capture00015.png	244 KB	PNG Image	10/10/2005 1:28 PM	
	🗃 capture00014.png	244 KB	PNG Image	10/10/2005 1:28 PM	
	🗃 capture00013.png	193 KB	PNG Image	10/10/2005 1:28 PM	
	🛃 capture00012.png	244 KB	PNG Image	10/10/2005 1:27 PM	-
ype: PNG Image Size: 155 KB			155 KB	🖳 My Computer	

These are the captures, at 5 minutes and about 3% completion. Capturing from the internal player works better if all you need are the key frames, or just the current key frame.

Capture from internal player



Screen Capture Options	×
Save As O BMP O JPG O PNG	OK Cancel
Capture Scope Current frame All key frames All key frames and all tweens Warning: saving all frames as BMPs can use considerable disk space	

You can create an animated gif by assembling a series of frame captures. Capture a series of frames and use software for creating animated gifs to transform the series of bitmaps into an optimized animated gif. There are many such specialized products available.

Export as SWF

A KoolMoves project can be exported as a FlashTM movie (.swf format) with File > Export Movie > Save as Flash Movie. You can create a stand-alone .swf file, a .swf file and a .html template file which references the .swf file, or add a Flash movie to an existing web page. Both swf and html files are needed for the movie to play on the internet. Movie properties (width and height, speed, background color or image) can be set with menu items associated with Movie menu bar prior to exporting the files.

Export as SWF and New HTML Page

KoolMoves can provide you with the necessary JavaScript code to call the Flash movie as one of the choices in File > Export Movie > Add to Existing Web Page. To replace a gif or jpeg image in an existing HTML file with a Flash movie, manually replace the HTML code in your existing HTML file with all JavaScript code that KoolMoves provides starting with <OBJECT and ending with </OBJECT> by first copying the <OBJECT... code and then pasting over the <IMG code... You can use copy/paste editing capability in your web page editor or in Notepad. A word of caution: do not paste JavaScript code onto your web page using FrontPage. The code will be pasted into a block of text and the JavaScript will not run correctly.

The name of the .swf file in the HTML file must be the same as the name of the .swf file on the server. If your server does not accept a .html extension, you can rename the extension to .htm. It is best not to include spaces in the name as this causes problems with Netscape browser.

Both the .html and .swf files are next sent to your web site by ftp. When you ftp the .swf file to your web site, make sure you send it as a binary file. The .html or .htm file must be sent as ASCII. The better ftp programs like FtpVoyager do this automatically. http://www.pageresource.com/putweb/ provides assistance in how to ftp your files to your server.

If you are having trouble getting the movie to play on the internet, these steps are recommended:

1. If you double-click on the .html file generated by KoolMoves on your local disk, does the movie play in your default web browser. If it does, the .html and .swf files are OK. If it doesn't, your browser may not have Adobe's Flash player. Go to the web site associated with your browser or to http://www.adobe.com/ and download the player.

2. Upload the KoolMoves generated .html (as ASCII) and .swf (as binary) files to your web site. Does the movie play on your web site if you go to the KoolMoves generated web page? If not, there is a problem in how you sent the files to your web site. File > Export Movie > Diagnose Server Problems is a small expert system for diagnosing these types of problems.

Export as SVG

This function exports all shapes or the selected shapes of the current key frame to an SVG file.

SVG Export	×
Export Scope Selected shapes in current frame All shapes in current frame	OK Cancel

Diagnose Server Problems

File > Export Movie > Diagnose Server Problems is a small expert system for diagnosing problems associated with exporting KoolMoves to SWF and HTML pages.

File > Insert KoolMoves Movie

Independent animation projects can be developed and then imported into another project. On import, the destination project's speed setting applies so adjustments may be necessary; frame duration/tweens will be based on the destination projects default setting. If the inserted KoolMoves movie requires more frames than are available at its insertion point, KoolMoves will add additional frames to the host project. These animations can be inserted into movie clips.

Select from the names of .fun files in the left list box and press Add to add to your animation. To preview the entire movie, check Preview All. Otherwise, only the file to be inserted will be previewed.

Insert Movie		×
2	Add	Cancel
D:\Program Files\KoolMoves\Z Downloads		ß
Tbackup.fun Tempbuf.fun arrowkeys.fun book.fun clip.fun content.fun doublebone.fun flashcam.fun frame.fun growingrectanular.fun hitTest.fun Km_logo.fun KM-flip_page.fun		
KM-flip_page-editable_swf.fun lightning.fun m_choise.fun		
main.fun		Preview all
pacmanshape.fun rotating.fun rotato.fun votato.1 fun		Replay Advanced <<
Timing Start at Key Frame 1 💌 🖽 End at 💽 🖬 Sp	beed	_

X & Y Offset – Adjust the placement of the clip art relative to the center of the frame.

Timing, Start at – Select an insertion point for the animation – defaults to active frame.

Timing, End at – The process will add frames to the current project if required.

Timing, Speed – adjusts the number of tweens used by the animation, based on the default tween setting of the destination project.

Working with Website Editing Tools

The Crate Diseño Web has tutorials for the most common web editing tools: FrontPage, www.koolmoves.com/tutorials/kmwithfrontpage.pdf CoolPage, www.koolmoves.com/tutorials/kmwithcoolpage.pdf NetObjects Fusion, www.koolmoves.com/tutorials/kmwithfusion.pdf

MIDI Sound Files

The Flash player does not directly handle MIDI sound. You have to convert the MIDI file to WAV or MP3 or synch it using other Flash player methods and FS Commands. There are several freeware MIDI conversion apps, for example, www.polyhedric.com/software/mn/.

www.tips-tricks.com/sound.asp gives a tutorial on how to add MIDI sound to your HTML.

This is html code that will background midi sound to your web page: <EMBED SRC="hittheroad.mid" AUTOSTART"=True" HIDDEN=True" LOOP= "True"> <BGSOUND SRC="hittheroad.mid" LOOP="infinite">

Chapter 5 – Data Views

Data Views are a major component of the KoolMoves interface; they allow you to track, display and edit elements (visual elements, effects, sounds and ActionScript code) placed in the movie at authoring time as well as organize the overall structure of the movie. There are six Data Views, but they fall into three broad categories based on what they do and how they work: Shape Properties, Overviews, and Lists. Data Views are accessible through the Views menu as well as the Menu Toolbar.



Like the Tools Toolbar, Data Views can be dragged to anywhere on your screen. Data Views can also be "collapsed" to their title bar by clicking on the Collapse button located below the title bar, and resized by dragging the resizing marks in the lower right corner of the window.



Working with visual objects and effects within a movie can require having more than one Data View open at a time. As these elements are addressed in their own chapters, Data View functionalities will be illustrated in greater detail. This chapter will provide a quick overview of the available Data Views, how they are accessed and used.

1) Properties Data View (Ctrl-F3)

8

Almost all properties for a visual element located on the Canvas are accessible from the Properties Data View. It is the most important of the data views. The content/format of the Properties Window is context sensitive; not only do different object types have

different properties, but changing a property can change the content/format of the view.

Shape S1	\mathbf{X}	🗖 Movie Clip mc4 🛛 🛛 🔀	List Box listbox1
2	a	🕄 Symbol Frames 🔺	1 2
All Look	Effects Behavior	All Look Effects Behavior	All Look Effects Behavio
Look		Look	Look
Position/size	(75.0, 302.0)	Position/size (289.0, 295.0)	Position/size (259.0,
Is filled	ves	Effects	Items none
Color/fill		Motion script none	Version Flash 8
Line width	1	Fade/size none	Bevel settings default s
Line color	black	Spin/rotate none	Hide scrollbar yes
Line style		Filters none	Multiple selection no
Is closed		Blend mode normal	Font Arial
Effects		Behavior	Arrow color
Motion script	none	Library symbol no	Background color
3D	none	Actions none	Button color
Fade/size		Parameters none	Scroll bar color
Spin/rotate		Documentation none	Scroll track color
Drop shadow	none	Is a mask no	Selection bar colc
Behavior		Masking depth	Text color black
Is a button	no	Ease in/out linear tween	Selected text col: white
Is a symbol	no	Morphing hints none	Text background
Is a mask	no	Bitmap caching no	Has gradient styl
Masking depth			Has liquid style
Ease in/out	linear tween		Has shaded style
Morphing hints	none		Border color
Morphing	standard		Behavior
Has bones	no		On change none 🗸

Property views for 3 different types of objects.

NOTE: Double clicking on an object will open the Properties window.

Click on a field within the Properties data view to highlight that field. A description of that field will appear at the bottom of the Properties data view. If the field is not grayed out, a drop down menu arrow or an ellipsis ("…") should also appear next to the property's current value. Clicking on an ellipsis will open a dialog window.

All visual elements on the Stage have a Position/size field. Clicking on the ellipsis will open the Numeric Transform dialog (covered in Chapter 12 – Transforms & Effects).

The Properties Data View is resizeable - a scrollbar is displayed if all the fields are not visible, and left and right navigation buttons are displayed all the property type tabs are not visible,.

Click on a tab other than All to isolate related properties.



The Properties Data View fields for a typical shape are covered below; fields specific to Button, Text, Movie Clip and Component objects are covered in their respective chapters.

Look (Appearances)

You can control the appearance of a shape with points through its:

Fill
 Line Width
 Line color
 Last border segment



All conveniently located in the Shape Properties Window.



	🗖 Shape S1	×
	?	
7	All Look Effects Behavio	я) т
	Look	111
"	Is Filled yes	
	Color/Fill	
£	Line Width 1]
	Line Color black	
	Line Style	

	All Look Behavior		
	Look		
gg	Is Filled	yes 🔻	
	Color/Fill	no N	
	Line Width	yes 😽	
	Line Color		
	Is Closed	yes	
	Behavior		
	ls a Symbol	no	

A shape can be filled with a solid color or a bitmap (Image Fill). To make the interior of the shape transparent, select Is Filled and choose No.

For more about Color/Fill options, see Coloring/Transparency in the next section.

This shows a shape that is not filled.

All Look	Behavior
Look	
ls Filled	no 📐 🔻
Color/Fill	
Line Width	1
Line Color	black
Is Closed	yes
Behavior	
ls a Symbol	no

	Look			
·	Is Filled	yes		
III	Color/Fill			
	Line Width	1 🔹		
	Line Color	0		
	Is Closed	1 😽		
	Behavior	2		
	ls a Symbol	3		

This shows a shape with no border (i.e., line width equal to 0).

To change the Border Thickness around the shape, select Line Width. The line width is an integer number of pixels.

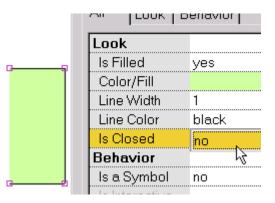
Borders with values of .25 and .5 or that have some degree of transparency are not rendered correctly in the KoolMoves internal player at this time, but are exported correctly to a FlashTM movie.

Look					
 Is Filled	yes				
Color/Fill					
Line Width	0				
Line Color	5				
Is Closed	.0				
Behavior					
 ls a Symbol	no				

	Look		
G	Is Filled	yes	
III	Color/Fill		
	Line Width	1	
	Line Color	black	
	Is Closed	yes 🔹	
	Behavior	no	
<u> </u>	ls a Symbol	yes 😽	

To set whether the last border segment of the shape is drawn or not, select Closed.

This shows a shape with the last segment not drawn. When the shape is also not filled, we have a line (i.e., the Closed property is off and the Filled property is off). The Closed and Filled property states can be toggled by selecting them.



C	lick on value to edi	t	
	All Look Behavior		
	Look		
	Color black		
	Туре	koolmoves	
kooln	Behavior		
	ls Interactive	no	
	Hit Area 📐		
	Has States 😽		

The property dialog for text looks different because text has different properties than shapes with points. The color of text can be changed by clicking on the Color property. A dialog that lets you set color will appear. The text, font, font size can be edited by clicking on the Type property. A dialog will appear in which you can edit the text.

Assigning button properties and making a non-text shape into a symbol are explained in the next section.

Coloring / Transparency



Shapes and text can be filled with a solid color (with or without transparency), a color gradient, or a tiled image (Image Fill). Access to the Shape Fill dialog is through the Properties Data View and the Shape Fill tool in the Tools Toolbar.

Solid color and gradient fills can have degrees of transparency. On the shape fill dialog box, there is an edit box for entering a transparency value. The range for transparency is 0 (opaque) to 100 (totally transparent) %.

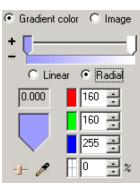
Shape Fill

To fill with a solid color:

Select Solid Color at the top of the dialog. You can (1) enter red, green, and blue (all 0 to 255 in range) and a transparency value (0 to 100 in range), (2) select with your mouse from the color wheel (partially shown), (3) use red, green, blue, hue, saturation, and lightness sliders (press the button on the left under the transparency value), or (4) use an eyedropper (press the button on the right under the transparency value) to select a color from another shape on the Stage. To view the shape fill before committing, press Preview. On OK, the shape fill is applied to all selected shapes.

To fill with a color gradient:

Select Color Gradient at the top of the dialog box. A gradient fill is comprised of up to eight color pointers. The color associated with the selected color pointer is shown underneath the gradient definition bar. The color of the selected color pointer (it is the color pointer which is depressed) can be changed by (1) entering red, green, and blue values (all 0 to 255 in range) and a transparency value (0 to 100 in range), (2) selecting with your mouse from the color wheel (partially shown), (3) adjusting the red, green, blue, hue, saturation, and lightness sliders.



The color gradient can be either linear or radial. Color pointers can be dragged to the left or right along the gradient definition bar to change the gradient effect.

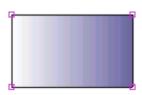
A color pointer can be added by pressing the small button with the plus sign. The mouse cursor turns into a color pointer with a + in the middle. Click at a position

Chapter 5 – Data Views

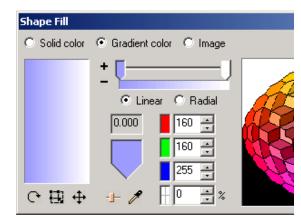
≝**Г_-₽**___/

on the gradient definition bar. Then change the color of this color

pointer. A color pointer can be deleted by pressing the small button with the minus sign and the selected color pointer is deleted.



An example of a selected rectangular shape filled with linear gradient is shown here. Only a shape with points can be filled with gradient color. To fill text with gradient color break it apart into a shape with points (Transforms/Break Apart Text).



Solid color
 Gradient color
 G Image

255 🕂

0

#FFFF00

255 🚊

+

+

The rotational orientation, position and size of the gradient fill can be adjusted with Rotate/Shift Gradient Fill and Scale Gradient Fill under the Transforms menu or with the applicable buttons in the Shape Fill Dialog.

Tra	nsforms Frames Movie				
	Break Apart Text				
Rotate/Shift Gradient Fill					
	Scale Givadient Fill				



Moving the center of the gradient fill to the right shifts the gradient to the right.

Moving the cursor around the center rotates the gradient.



To fill with an image:

OK
Cancel
Preview

Select Image at the top of the dialog box. Use the Browse "..." button to locate your image file. Bmp, jpeg, tiff, pcx, and png file formats can be imported. Transparency in png files is ignored at this time. If you use the same image with the same filename multiple times throughout the movie, KoolMoves is smart enough to store the image only once in the exported Flash[™] movie. If the image is larger than the shape, only the upper left portion of image will fill the shape. If the image is smaller than the shape in any dimension, the image will tile to fill the shape. Only a shape with points can be filled with a image. The transparency of the image can be adjusted with a slider.

test

You can preview the fill by pressing Preview. On pressing OK, the fill, either color, gradient, or image, will be applied to all currently selected shapes and, if the fill is color, to all selected text.

Color Models: RGB vs HSB

There are many color models in use today; all of them based either on how color is perceived or how colors will be generated for a specific medium or purpose. Three of the most popular color models in use on computer applications are RGB (Red-Green-Blue), HSB (Hue-Saturation-Brightness) and CMYK (Cyan-Magenta-Yellow-Black). The CMYK model is used specifically for (four color) printing applications and thus does not apply to Flash applications. Color monitors combine red, green and blue (the primary colors) pixels to generate the visible spectrum from black to white (this is why RGB is called an *additive* model). Each primary color can have a value ranging from 0 to 255 (00 to FF in hexadecimal notation – each color is two digits in the final hex color value 0xRRGGBB). 0x000000 is black while 0xFFFFFF is white; pure hues of red, green and blue are 0xFF0000, 0x00FF00 and 0x0000FF, respectively. There are 16,777,216 colors possible.

When color models other than RGB are used on personal computers, ultimately they have to be translated into RGB at some point to display on the monitor. Applications using CMYK often have a color calibration process to avoid color shift problems. Color shift is not an issue with HSB – any color that can be represented in HSB can be represented in RGB, and vice versa.

Slider Button

Shape Fill	RGB and HSL Sliders
Solid color	RGB Red Green Blue
	HSL Hue Saturation Lightness
	Black Slider Settings

The HSB color model is more in tune with how humans conceptualize colors, and using the HSB slider bars is conceptually analogous to how artists have traditionally mixed pigments to create colors. Hue refers to a color's light frequency, saturation is the amount or strength of the hue (its purity), and brightness is the amount of black in the color (its lightness or darkness). To oversimplify the HSB model, a color is a hue that is modified by saturation and brightness.

Shape Fill	RGB and HSL Sliders	Shape Fill RGB and HSL Sliders	×
Solid color	RGB Red Green Blue HSL Hue Saturation Lightness	Solid color RGB Red Green Blue HSL Hue Saturation Lightness	
	Red Slider Settings	Green Slider Settings	

A hue is a "pure" color, i.e. one with no black or white in it. A shade is a "dark" color, one produced by mixing a hue with black, a tint is a "light" color, produced by mixing a hue with white, and a tone is a color produced by mixing a hue with a shade of grey. Hue values are graphically represented as a circle, typically range from 0 to 360, with 0 and 360 being identical (ie, hue cycles from red back to red).

Shape Fill	RGB and HSL Sliders	Shape Fill	RGB and HSL Sliders
 Solid color 	RGB Red Green Blue HSL Hue Saturation Lightness	© Solid color	RGB Red Green Blue HSL Hue Saturation Lightness
	Blue Slider Settings		Red Slider Settings

Saturation refers to the intensity of a specific hue. It is based on the color's purity; a highly saturated hue has a vivid, intense color, while a less saturated hue appears more muted and grey or "washed-out." With no saturation at all, the hue becomes a shade of grey. Saturation ranges from 0 to 100 percent.

Brightness, also known as "brilliance," "luminosity" or "lightness", is a relative expression of the intensity of the energy output of a visible light source. Brightness ranges from 0% to 100%. In the RGB color model, the amplitudes of red, green, and blue for a particular color can each range from 0 to 100 percent of full brilliance.

Effects

There are about half a dozen powerful effects that can be applied to shapes, group of shapes, text, imported SWF movie, or movie clip (Fade In/Out, Expand, Shrink, Zoom In/Out). Not all of the effects work on each object type. Effects are found under the Effects menu, on the Effects tab of the Properties Data View, the Effects tab of the Score Data View, and the Effects tool in the Tools Toolbar. First select a shape and then select the effect. Most of the effects occur over several key frames; you can specify how many key frames when you create the effect or at a later time by using Effects > Modify or by editing the effect in the Properties dialog. You can also combine effects in many cases.

	Shape Circle1	×
C	2	
	All Look Effects	Behavior
	Motion script none	
	3D none	
	Fade/size none	
	Spin/rotate none	
	Drop shadow none	

A special kind of effect called motion script uses sophisticated Flash 5 and higher action script code to create the effect. Each motion script is highly customizable, but usually can not be combined with other effects. See the Motion Scripts entry in Appendix E for a complete listing of available motion scripts.

The advantage of the regular built in effects like fade in and zoom in is that they can be applied to any object and they preserve any frame-by-frame user imposed color, shape, and position changes. The advantage of the ActionScript-based effects is that they are more unique and are highly parameterized.



Objects with Motion Script, Filter, or Blend Mode effects are displayed on the stage with a dashed blue bounding box. Other effects are displayed with a green dashed box.





Additional ways to modify objects are available under the Transforms menu and palette covered in Chapter 12.

Motion Scripts

Motion scripts are Flash 5 or higher ActionScript that can be applied to almost any object -- text, an image, a movie clip or a general shape. The motion script animated effects are not viewable within the KoolMoves main editing environment- all you see is a blue dashed box surrounding the shape. The motion script action is visible in the motion script preview window, in a web browser, or in a stand-alone Flash player.

Motion Script Effects						
No effect	I P	ause before effect starts (frames)	10	_	?	
Alpha Bars		everse effect	no		OK	
Alpha Letters	S	peed	very slow			
 Bar Slide In ** 	Li	near speed	no		Cancel	
Blinds	D	istance (pixels)	100			
Block Mask		ar size	12			
Blur	В	ar angle	75			
Blur 2		ade	yes		Preview all	
Blur and Fade	R	otation angle	75	_	Bastan	
Bounce		ause between characters (frames)	5	_	Replay	
Cartwheel					_	
Clockwise Sweep		J₫€				
Cross						
Cursor Write On		test mes				
Decode		200				
Displacement *		2				
Drop in		2				
Elastic						
Explode						
Explosion						
Fall Forward						
Falling leaves						
Flames 💽					▶	
* Requires Flash 8 browse	r plug	in 🛛 ** May be cpu intensive when ap	oplied to text or s	hapes with ma	any points	

Because of the nature of these ActionScript-based effects, frame-by-frame changes in color, shape, and position are ignored by the effect. The position, color, and transparency from the first frame the shape appears in is used by the effect. The length of the effect is determined by the effect itself not by the number of frames the shape appears in. Also, motion scripts disable drop shadow effect applied to static text. If the text is a single letter or if the effect is applied to a non-text object, effect parameters such a left to right or right to left do not apply.

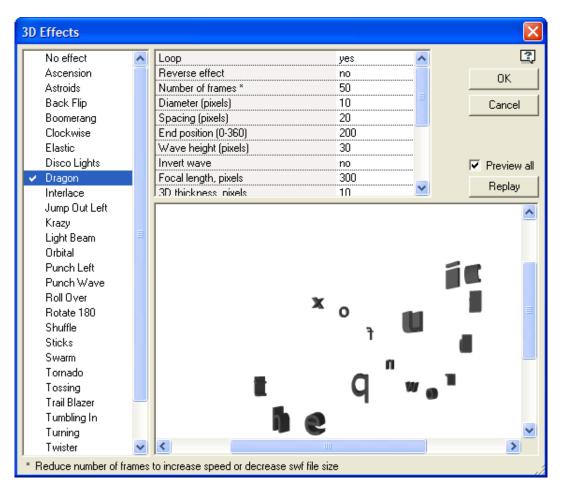
You can achieve some level of frame-by-frame changes by embedding the object with the motion script inside a movie clip and then manipulating the movie clip in position, size or rotational angle.

For those advanced users who want to control the effect from the main movie through ActionScript commands, the name of the movie clip that encompasses the effect has the same name as the shape in the KoolMoves shape list; this is a dynamically created movie clip (i.e., at movie execution) so you will not see it listed in the shapes list. If there is an embedded space, the space is removed. In the example above, code to find the x axis location of the movie clip containing the text would look like " $x_loc = sdf_r$ ".

You are able to create your own motion scripts and use them in your movies. See the readme.txt in the My Scripts folder inside the Motion Scripts folder for more information. See the Motion Scripts entry in Appendix E for a complete listing of available motion scripts.

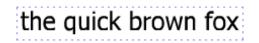
3D

KoolMoves's 3D effects combine motion scripts with a 3D rendering engine. 3D effects can be applied to static text and shapes with solid (i.e., no gradient or image fill) colors. To remove an effect, select "No effect" in the list of effects. Checking Preview All displays the entire movie rather than just the selected object.



The 3D effect cannot be combined with other effects on the object, and only one 3D effect can be applied at a time. However, if the shape or static text is placed within a movieclip, additional effects can be applied to the movie clip. For example, while a 3D effect can not be combined directly with a drop shadow effect, a drop shadow filter can be applied to a movie clip containing the object with a 3D effect.

3D effects result in larger than usual SWF files. The effect, indicated by a blue dashed box, is not viewable in the KoolMoves editing screen or its internal player but can be viewed in the preview window associated with the 3D effect or in a web browser.



Fade/Size

The Fade, Grow, and Zoom Transition Effects have their effect over an object's beginning and ending key frames. Click on a check box to set parameters for the effect and turn the effect on.

Initial Fade In		×
Over this many key	2 •	ОК
🔽 Add frames if needed		Cancel

The Fade and Grow settings are identical and work
in a similar fashion: the Alpha value or size starts
0% and changes to 100% ("Initial"), or starts at

ade and Size Trans	itions	
?		OK
Transition Effects		Cancel
🔲 Initial fade in	P	
🔲 Initial grow	P	
🔲 Initial zoom in	P	
🔲 Final fade out	P	
🔲 Final shrink	P	
🔲 Final zoom out	P	

100% and changes to 0% ("Final"). The number of key frames, combined w/ the frame duration and movie speed, determining how fast the effect will occur.

Initial Zoom In	×
Zoom percentage 5000 -	OK
Over this many key frames 2 📑	Cancel
Add frames if needed	

The Zoom effect does not automatically range from 0 to 100%, so an additional parameter exists in these dialogs.

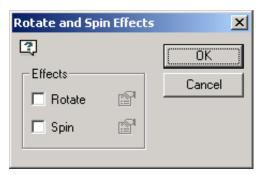
Once the parameters are set, turn on the Effect by clicking on OK. Click on the edit button in the Fade and Size Transitions window to change the parameters for the respective effect.

Zoom effects can not be used in conjunction with Fade or Grow effects.

Spin/Rotate

The Rotate and Spin Effects dialog window is pretty standard – click on box to open parameters dialog, edit buttons disabled until effects are turned on, click on OK button to save effects to selected object.

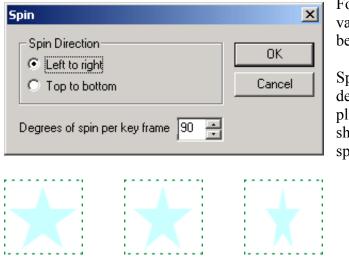
Rotation Effect	x
Rotation Direction To right To left	OK Cancel
Over This Many Frames	
Final frames 4 🕂 Key frames	
All frames	
Degrees of rotation per key frame 90 📑	
Add frames if needed	



Like the Fade/Size effects, the Rotation Effect allows you to apply the effect to either the initial or final key frames, or both. The Fade/Size default key frame effect duration value is 2 while it is 4 for the Rotation effect. The explanation for this difference is covered in the Morphing entry under the Behavior tab – suffice it to say that the Rotation Effect needs 4 key frames to work properly.

Below, with the help of some image editing, you can see the effect of a 90 degree Rotation Effect on a star shape over the first five key frames.





For the Spin/Rotate effects, the only valid values for the degrees of spin or rotation are between 1 and 180, inclusive.

Spinning differs from rotating in that at 90 degrees the shape is edge on to the display plane – at which point a two dimensional shape disappears. The shape below is spinning at 30 degrees per key frame.

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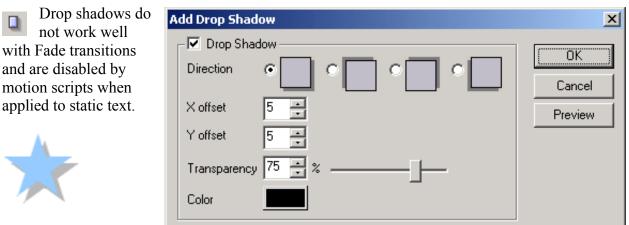
Filters

Filters can only be applied to movie clips, buttons and dynamic text. For information on how to use Filters, please see the Movie Clip Effects entry in Chapter 11.

Blend Modes

Blend Modes can only be applied to movie clips and buttons. For information on how to use Blend Modes, please see the Movie Clip Effects entry in Chapter 11.

Drop Shadow



Behavior - Shapes

The fields available under the Behavior tab will vary, depending on the type of object that is selected. Addressed below are the fields for a simple shape – most apply to buttons, movieclips and other object types. The bones property is discussed in Chapter 6 – Drawing/Editing Shapes.

Is a Button

Set to yes to convert a shape to a Button.

Is a Symbol (as opposed to Shape)

A symbol is a shape which is drawn once and reused more than once throughout the movie. One of the options in File > Preferences is to have objects drawn with the Tools Toolbar tools default to symbols instead of shapes. Drawing shapes as symbols results in the smallest swf file size but puts limitations on how shapes can be changed frame-to-frame. These limitations are acceptable for most

E	Shape S1	X
C	?	a
f	All Look E	Effects Behavior
	Is a button	no
	Is a symbol	no
	Is a mask	no
	Masking depth	
	Ease in/out	bounce ease
	Morphing hints	none
	Morphing	standard
	Has bones	no
	μ]

application or game designers but would normally be unacceptable for cartoonists.

One of the principal methods for optimizing Flash[™] movie performance is to make as many shapes as possible into symbols. Technically, a symbol is a shape that is shared by other shapes (called instances of the symbol). If you move a point in one instance it will be moved in all instances throughout the movie (KoolMoves first asks you if you want to change all instances). If you change the gradient in one instance, all instances will be changed. And, so on. The exceptions to this are solid color fills, shape position, scale and rotate transformations. These four only change the instance acted upon, not all instances. This is dictated by the Flash file format.

For simplicity, KoolMoves treats all text shapes as symbols.

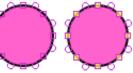
If you have shapes that appear more than once in a single frame or in multiple frames, then it is advisable to make these shapes into symbols if you do not intend to move individual points from one frame to the next. In many cartooning situations, you would want to move points from one frame to the next to make a mouth move to simulate talking or to made a hand move to simulate waving, etc. so such shapes would not be good candidates for symbols. If the shape is stationary and undergoes no change throughout the movie, it is not necessary to make the shape into a symbol (KoolMoves will automatically handle this situation). In the future, we will be providing a method to optimally convert shapes into symbols after the animation is complete so it is not necessary to be thinking about this optimization while you are developing a movie.

KoolMoves User Manual

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?			<u></u>	1
All	Look	Effe	cts Behavior	
Is a	Button	no		
Is a	i Symbol	ye	s	
Is a	ı Mask	no		

To make a shape into a symbol, select Yes for the Is a Symbol property. This should be done immediately after creating the shape before a copy is made within a frame or a

frame is copied. Notice that the points to the shape have a different appearance to indicate that these points are potentially shared with



other shapes. The symbol instance is edited like any other shape. If the change affects other instances you will be

warned.

Masking and Masking Depth

Masking is a very powerful technique. The following illustrates a simple animation example of letters being revealed from left to right using a gradient and a text mask.



We start with a circular shape, no border, that is filled with a gradient. On top of that we place a text shape. The text is the mask. Think of it as a cookie cutter. The mask cuts out what is underneath to the extent of its masking depth which in this case is 1. The fill or color of the mask is immaterial. The mask itself is invisible when the movie plays. In the editing environment, the mask is by default visible.

Behavior		
Is Interactive	no	
Has States		
Actions		
Sound		
Hit Area		
ls a Mask	ves	
Masking Depth	1	_

A shape is made into a mask in the property dialog. The depth of the masking effect is also assigned in the property dialog. Anything except buttons can be made into a mask.



In the first frame, the gradient filled shape is positioned to the left of the text. The frame is copied and the gradient filled shape is positioned to the right of the text. During animation, the gradient will sweep across the text revealing the letters.

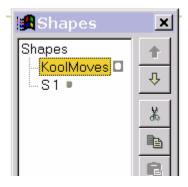
KOOLNOVES

This is how it looks when the gradient filled shape is underneath the center of the text (in this case the movie spans three key frames).



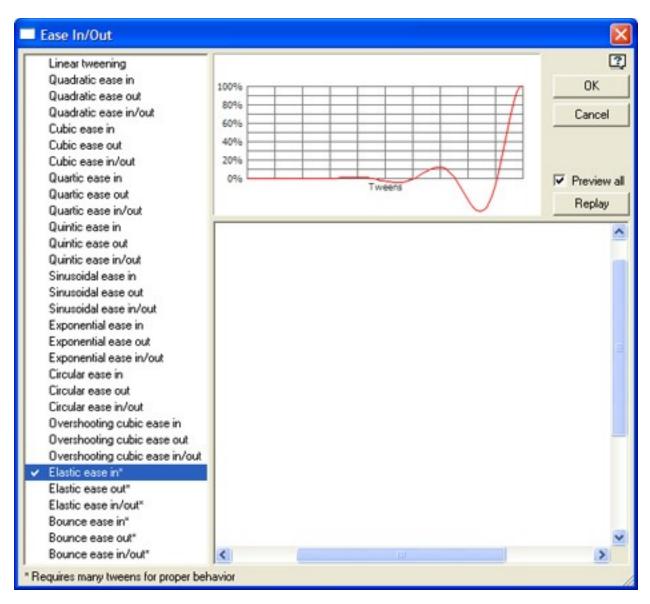
To see the effect of the masking, press Ctrl+M. This is how the movie will look when this key frame is played. Ctrl+M removes the masking effect and the mask is made visible again.

The shapes dialog identifies masking shapes and shapes which are clipped by masks with two different icons. The mask is always on top of the shapes which are clipped by the mask.



Ease In/Out

The Ease In, Ease Out property is used to apply variable acceleration to an object's tweening effect. Introduced with KoolMoves 5.6, there are thirty different scenarios in addition to the default linear tweening. Easing cannot be combined with a motion script effect.



To change the easing over many frames, use Selection Scope before changing the easing. Checking Preview All displays the entire movie rather than just the selected object for the current frame. The Elastic ease in acceleration chart above indicates that negative acceleration (reverse motion) occurs at a couple points during the transition.

Morphing

Morphing is the technique by which shapes in one key frame are smoothly blended into corresponding shapes in the next key frame. Morphing is handled by KoolMoves without you having to think about it. There is morphing between two key frames when the number of tween frames between two key frames is greater than zero. To prevent morphing, set the tween frames in that part of movie to zero. To perform morphing between two key frames, KoolMoves must recognize the relationship between shapes in the two key frames. If a key frame at the end of the movie has shapes A and B and that key frame is copied to the end of the movie, shapes A' and B' in the copied key frame are related to A and B through the copy process so correct morphing will occur. Morphing occurs between a shape and its single counterpart in the next key frame. There cannot be morphing between a single shape and multiple shapes or vice versa. The Morphing Hint displayed in a Properties window is used to tweak performance when problems occur for morphing over multiple frames.

Morphing hint

Turn this feature on to help in the rendering of the morphing effect when there is a dissimilar number of points between the two shapes.

Shapes > Advanced > Morph Source

The morph source function gives you the capability of morphing two shapes that are not currently morphing. This is particularly useful if you insert a movie into your current movie and you want to cause morphing between shapes in the current movie and those in the inserted movie.

A shape can have only one morph source. Make sure 'draw shapes as symbols' is turned off in File > Preferences > Drawing, or change the symbol to a shape in the Properties window. The morph source dialog asks you to select a shape from the previous key frame to assign as the morph source to a selected shape in the current key frame.

The key to good morphing is to have the same number and type of points in the source and target shapes. For example, when morphing between a circle and a square, add additional points to the square with the Add Point and Line to Curve tools (Chapter 6 -Reshaping). Every other point should be a spline (ie, curve point) when morphing to a circle.

Non-Linear Morphing

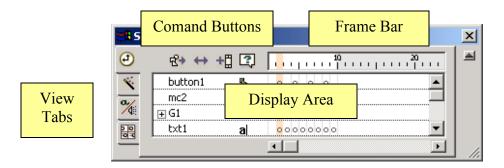
Standard morphing entails linear interpolation between two adjacent key frames. This is sufficient for most situations but fails to produce good results when there is rotational motion. Non-linear morphing involves a cubic fit between 4 key frames; this produces superior movement but does result in a larger swf file size. If the non-linear option is selected and there are less than 4 key frames of motion, standard morphing will automatically occur. Non-linear morphing is only available in the Cartooning interface style.

|+)

2) Score/Timeline Data View (Shift-F3)

A powerful view of the movie is obtained through the Score Data View. The Score window has four tabbed views -- Score, Effects, Actions and Sounds, and Storyboard. Each view provides a different look at what is happening in the movie timeline on a key

frame by key frame basis, but there a certain common elements.



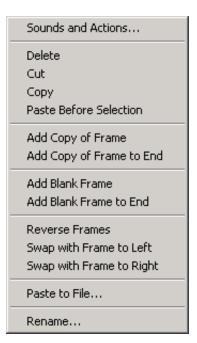
Note: The Flash Player usually skips the first frame, so your movie should start with an empty key frame. No object or ActionScript code should occur before the second key frame.

Click on a tab to move between views. Click within the Frame Bar to move to a different key frame. The pink column that extends from the Frame Bar through the Display Area indicates the active key frame. Right clicking on that pink column within the Frame Bar invokes a popup menu with a number of frame editing options.

Sounds and Actions opens the Actions and Sounds Overview covered later in this chapter. The Add ... Frame commands are discussed in Editing and Playing Frames in Chapter 1.

Delete, Cut, Copy and Paste Before Selection can work with multiple frames selected. Reverse Frames can only work when multiple frames are selected. To select more than one frame to delete, copy or reverse, click within the Frame Bar while holding down the shift key to add individual frames to the selection. The Swap commands deal with the frame immediately adjacent to the active frame.

Paste to File... will open a Save to... dialog window and paste key frames copied by the Copy command to a new .fun file. Rename... opens a dialog box to rename the active key frame.



Rename	×
	<u>ОК</u>
	Cancel

There are certain nuances to the Frame Bar, so let's take a closer look.

1) In the Key Frame bar there are white and grey regions. The white region reflects key frames that exist. Clicking in the grey region has no effect.

2) At the hash mark labeled 10 one would expect to be at the 10th hash mark, but it is actually the ninth. The numbering through the Key Frame bar is off by one. This is a legacy issue that doesn't affect performance, and since the numbering is accurate in the List of Files Data View and Navigation bar, no one has ever complained. Just an oddity of KoolMoves.

3) From the pink in the Key Frame bar we can tell that three key frames have been selected. However, which key frame is the active frame? The answer is "the last key frame selected", also known as the one whose pink bar extends into the display area. In the image above, the last key frame selected was the fourth.

Score tab

The Score view allows you to see at a glance where an object has been throughout the entire movie. The Score view is equivalent to the timeline view in other Flash tools.

ten sco	pre/Timeline	×
€	€+ ↔ +□ ♀	
1	button1 🚯 o o o o	
	mc2 🖳 oooooooo 💻	
1		
0.0	txt1 a oooooooo 🔽	
<u> </u>		

In each key frame, objects that are present are displayed as dots. Clicking on a dot selects the object and moves the project to that frame. Selected objects are indicated by blue filled dots. Shift-click to make multiple selections

The order of the objects in the display area reflects their relative position ("depth") in the content stack. Objects higher up are displayed over lower objects in the movie.

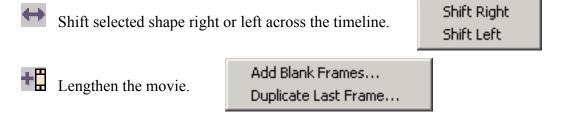
After an object is selected, right clicking in the display area invokes a context sensitive popup menu. With these commands the selected object(s) can be renamed, copied or moved to an adjacent key frame, or moved in the Content Stack. With KoolMoves 5.0.2, movie clips can be added to the Symbol Library (additional objects can be added starting with the next KoolMoves release).

Rename
Copy to Next Frame Shift Right Shift Left
Move Up Move Down
Add to Symbol Library

The Score view also has the following command buttons (popup menus included where applicable):



Copy selected shape to the next frame.



Effects tab

The Effects view is an efficient method for tracking effects used throughout the movie. This view also allows you to add and manipulate effects. An effect changes the size, position, transparency, and/or rotation of a shape, usually over a series of frames. Generally multiple effects can be applied. For instance a shape can fade in while increasing in size from nothing.

Note: Motion Scripts are the major exception referenced by the "usually" and "Generally" above. As a class they work in a single key frame, and can not be used in conjunction with effects that require multiple key frames or tweening.

🗖 Ef	fects		×
٢	+, +🛛 🕄	10 20	
*	. ⊕ G1		
~			
_			1

The span of the effect can be changed in the display area by dragging the side of the box identifying the effect.

The Effects view also has the following command buttons (popup menus included where applicable):

Add Effect. Opens a menu of effect types that can be applied to the selected shape. Available Motion Scripts are listed in Appendix E, the effects interfaces are discussed in the Effects Chapter.

Motion Script... Fade/Size... Spin/Rotate...

Lengthen the Movie. This is useful when you create unique transition effects.

Add Blank Frames... Duplicate Last Frame...

Actions and Sounds tab

With the Actions and Sounds view you can place either customized pre-configured commands or actual ActionScript code on a key frame. The preconfigured commands provide graphical user interfaces for the most commonly used programming functions. This This view, outside of the Toolbar and the Menubar, is the most often used screen element by the average KoolMoves user.

ta B	tions and Sounds		×
Ð	+. 🕄	10 20	
1	Stop Movie	a a aa 🔺	
a./	Action Script	a	
1	Get URL	a	
-	Set Dynamic Text	a. 💌	

While pre-configured commands not as efficient as pure ActionScript, they allow users to create sophisticated movies without knowing ActionScript.

Note: the Flash Player will skip any actions on the first frame.

Right-clicking on a command in the timeline area of the display opens a popup menu. The Edit function is grayed out except for actions that required user inputs (i.e., configurable commands and ActionScript code).

Add Action or Sound. Opens a menu containing 1) commands that can be applied directly to the selected frame, 2) interfaces to customize configurable commands, and 3) the Action Script Editor.

Miscellaneous Notes:

Play Movie, Stop Movie, and Stop Sounds are applied directly to the Frame and require no user inputs. Stop Sounds will stop all sounds currently playing when that Frame is loaded.

Sound files, movies, source text and other external objects defined at authoring time and loaded at movie execution can be quickly identified with the Dependencies window (Movie > Movie Dependencies).

The Dynamic Text commands are grayed out if there are no Dynamic Text objects in the project.

Edit... Delete... Shift Right Shift Left

Start Sound...

Action Script...

Go To URL (URL Link)... Go To Key Frame...

Load Movie... Unload Movie...

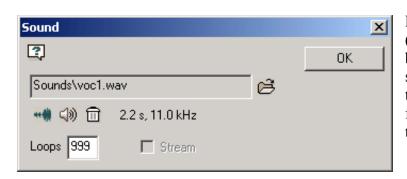
Play Movie Stop Movie Stop Sounds

Set Dynamic Text... Load Dynamic Text...

FS Command... Javascript...

Start Sound

Sounds (MP3 and .wav PCM) can be added to a specific frame in a KoolMoves movies. When the movie plays that frame the sound will start playing.



MP3 frame sounds can be streamed (this means that the animation can begin playing before the entire sound is loaded). The disadvantage to streaming sounds is that key frame animations can be dropped if they cannot keep up with the sound.

Select a Sound Set Loops equal to 999 for continuous looping. Edit the sound using audio editor defined in File > Preferences **(**]) Play a sound 2.2 s. 11.0 kHz

Remove a sound

Sound file's duration and sample rate.

Each Key Frame can have only one sound action. Load sounds into movie clips to have multiple sounds on a Key Frame.

If you use the same sound file multiple times throughout the movie, it will be referenced that many times in the FlashTM movie but only defined once.

Sound files tend to be huge which can make the exported swf file huge. To reduce sound file size, take these steps: in a sound editing program convert from stereo to mono and to the smallest sample rate that gives you the quality you need. Shortening the sound track also helps.

Sounds can also be attached to button states (e.g. moving the mouse over a button or on pressing a button). See Adding Sound to Button States in Chapter 7 for more details.

Sounds do not play when the movie runs in KoolMoves' internal player.

If a sound plays longer than the movie and the movie loops, the sound from the first loop will continue plaving during subsequent loops until it finishes. The sound effect worsens as the movie continues to loop. To solve this problem, add Stop Sound action to the last frame of the movie.

If your sound file is sampled at a rate other than 5500, 11025, 22050, or 44100, the sound will play in the Flash player at a rate nearest to one of the four rates listed above.

The duration of a sound is indicated in the Actions and Sounds View window and in the Actions and Sounds tab of the timeline by a sound icon followed by small squares.

ActionScript

See Chapter 13 - Action Scripting.

Go To URL (URL Link)

The Get URL window is comparable to the getURL ActionScript global function. With this you can load a document into a browser or execute server-side scripts. A similar window is available for incorporating this capability into buttons.

Get URL		×
2		
URL	page1.html	OK
URL target		Cancel

The optional URL Target field (comparable to the window argument in getURL()) can be used to load the document into a named browser window or browser frame. If this field is left empty, the document is loaded into the current browser window or frame.

The dropdown list has four preset values: blank, _parent, _self and _top.

_blank – Opens the document in a new, anonymous browser window.

_parent – Replaces the frameset that contains the current movie.

_self – Loads the results of a script execution into the current browser frame or window.

top – Replaces all framesets in a web page with the specified document.

When testing a movie using Play in Browser, any html and swf files referenced by Get URL or Load Movie MUST be in the same directory as the fun file for these button actions to access these files, or set the directory for playing the movie in File > Preferences.

Go to Key Frame

The Go To Frame window is comparable to the gotoAndPlay() and gotoAndStop() global function. A similar window is available for incorporating this capability into buttons. With Key Frame Selected,



select a key frame number (e.g., Key Frame 1) or a frame label from the drop down list. The Previous and Next Frame controls will direct program control to the most adjacent frame, including tweens.

Load Movie

Load Movie loads a new SWF into the Flash player. This feature can be used to string together multiple SWF files. Because the project is broken up into multiple movies, the individual SWF files are smaller in size. Smaller files load faster, and manage memory more efficiently. A similar window is available for incorporating this capability into buttons.

Load Me	ovie	×
2		
URL	lingrad.swf	OK
Level	1	Cancel

Flash can play multiple timelines simultaneously. Each timeline is assigned a level. The main timeline is always Level0. Level0 sets the frame rate, background color and frame size for all the other loaded movies. Additional timelines load into higher numbered levels and are displayed in a stacking order with level0 being the bottom-most

level. When using the Load Movie action, a level must be specified to define where the SWF will be loaded. If loading one movie only, any level 1 or higher will work fine.

For use on the web, the URL for the loaded movie can be an absolute or relative URL, but, for testing purposes, all the movies must be in the same directory without directory or disk drive specifications in their names. When testing a movie using Play in Browser, any HTML and SWF files, referenced by Get URL or Load Movie actions, MUST be in the same directory as the fun file for these button actions to access these files or set the directory for playing the movie in File > Preferences.

A new movie can also be loaded into level0. This will replace the original contents of the main timeline, and is an effective method of stringing multiple SWF files together in a continuously running show.

An alternative method is to have a control movie in level0 that regulates the loading of additional movies/media into other levels.

Using relative paths with load movie can be confusing. Since any timeline can perform a load movie action, what path is the movie being loaded relative to? Is it relative to the main timeline at _level0? Or is it relative to the timeline that performed the Load Movie action? The answer is simple: Loaded Movies are always relative to the timeline that loaded them.

When a movie is loaded into a level, it is positioned relative to the upper left corner of the movie that loaded it.

Loading a movie into a level other than _level0 is much like adding elements to the stage; they will be in a stack. Unless higher level movies have backgrounds of same or greater size, the lower movie(s) (or portions of it) may be visible underneath the higher level movie.

Daisy Chaining Movies

Use Load Movie to Daisy Chain movies together. Create a base movie that loads in the other media and then loops - make sure that you do not loop the load movie action. Load your main movie into Level 2 and your background animation into Level 1. Adjust your frame durations so your movie in Level 2 runs to the end, then add a new frame and load the next movie into Level 2 (first movie is automatically unloaded). Repeat as necessary for each component movie, then create an additional frame and loop back to Frame 2 (Frame 1 was left blank due to Flash Players tendency to skip the first frame).

Unload Movie

This window, comparable to the unloadMovie() global function, empties the specified level.

Unload Movie	×
Level 1	OK]
	Cancel

Play Movie, Stop Movie, Stop Sounds

These commands are comparable to the play(), stop(), and stopAllSounds() global functions. No window opens for these commands because no parameters need to be set. Instead, the commands are immediately placed on the timeline.

Set Dynamic Text

Set Dyna	Set Dynamic Text				
Object	txt1	•			
Text	Hello world.				
	1				
	0	K Cancel			

This window allows you to set the text in a dynamic text object without knowing ActionScript. The image below is comparable to 'txt1.text = "Hello world.";' in Flash Player 6 and above ActionScript.

Load Dynamic Text

Load Dynamic Text loads text into a dynamic text object from a .txt file.

Load Dyn	amic Text	×
Text file	source1.txt	ОК
followe	text inside the file should start with txt1= d by the body of the text with no quotes txt1 is the name of the dynamic text object	Cancel

FS Command

The FS Command action provides a general method for Flash to send a message to whatever program is hosting the Flash player. This is advanced functionality, not for the average user.

FS Commar	×	
Command	FScommand:	OK
		Cancel
Arguments		

FS Commands are not very reliable as they don't work on many browsers. You are actually better passing the info from the SWF to the browser using JavaScript. Likewise, you are better off using ActionScript for interactivity. There are a very select few instances where this is not the case.

In a web browser, FS Command calls the FS Command JavaScript function. In Director, FS Command sends a message interpreted as events by Lingo. In Authorware, FS Command sends commands to the scripting environment. In Visual Basic and Visual C++, FS Command sends a VB Event with two strings.

The FS Command was developed in Flash for 2 reasons.

1. To allow SWFs to talk to Live Connect and Active X.

2. When it was implemented IE did not support JavaScript: Commands as URLs. At that time FS Commands were the only way to pass information to IE 3.0 or lower.

The early versions of Flash, Flash 3 or lower, had a very limited scripting environment, to see just how limited download a shareware trial of Flash 3. If you wanted to script something you had to use FS Commands and Flash Player Methods to do it. Since the authors of the Macromedia Technotes wrote that the way to communicate with Flash was through FS Commands all of the following Flash book authors stuck to that story, which is untrue. Most FS Command tutorials on the web confuse FS Commands with Flash Player Methods.

FS Commands pass a variable and an argument to the native scripting language. With the exception of projector files, which have some limited commands built in, you must script the commands yourself. You need to be aware that there is no Active X support for IE for Mac, Netscape, Mozilla, and most open sourced browsers. Also Linux browsers are dropping Live Connect. Therefore the use of FS Commands for web page usage is problematic.

The most common use for a FS Command is in the use of projectors. These commands are quite easily called by using the following command words in the FS Command box and the following arguments in the argument box. It is important that you start the command with "FS Command:".

Command Arguments:

- Quit Shuts down the Player.
- FullScreen True/ False Makes your projector Full Screen if set to true and makes it regular if set to false.

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- AllowScale True/False Allows your Graphics to scale with the projector or not.
- ShowMenu True/False Shows the Projector Menu or eliminates it.
- Exec "Path of EXE you want launched" Launches any EXE if you are working on a MAC it launches and apple script. You must know the Path of the program. Save- Only available in the Flash 5 Standalone Player and may be removed at anytime without notice. It saves all of your variables to a txt file in the root directory.
- Save "File Name" Saves to file name.

Many projector enhancement programs like Flash Tools, SWF Studio, Swish Canvas, Jugglor, Flashants FMProjector have custom FS Commands built into them. Be sure to read the documentation carefully before implementing one of these specialized FS Commands. Outside of browser non-support for FS Commands, there is one good reason to use them to communicate with your HTML. This one good reason is that FS Commands do not cause your web browser to click when the command is issued like JavaScript commands do.

In order to use FS Commands you must have this on your page:

<script=;"JavaScript;"> function navmovie_DoFSCommand(command, args) {

```
if ( command == "init" ) {
```

var buttons = parent.InternetExplorer ? window.navmovie : window.document.navmovie; if
(buttons != null) {

buttons.GotoFrame(parent.targetFrame);

// This function ensures that the navigation bar movie is set to the proper // keyframe when it initially loads. The argument init is the name you use // as the command parameter for the action attached to the first keyframe // in the navigation bar movie. } } // Hook for Internet Explorer if (navigator.appName && navigator.appName.indexOf("Microsoft") != -1 && navigator.userAgent.indexOf("Windows") != -1 && navigator.userAgent.indexOf("Windows 3.1") == -1) { document.write('<SCRIPT LANGUAGE=VBScript>'); document.write('on error resume next '); document.write('sub fscommand_FSCommand(ByVal command, ByVal args) '); document.write('end sub '); document.write('</SCRIPT> '); }

```
//--></SCRIPT>
</SCRIPT>
```

Notice that you have to have some VB on your page to catch the FS Commands from Active X. Now this is important. A FS Command is only a variable and a value when sent to a program. You must build the proper handler for your command and arguments with JavaScript.

Okay now the final use which is probably the most useful use of FS Commands is for in custom programs that use Flash as the interface such as Authorware and VB projects.

This is handled by the Active X Flash method:

FSCommand(command, args)

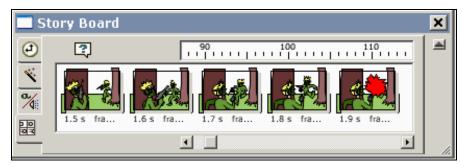
Generated when a FS Command action is performed in the movie with a URL and the URL starts with FS Command :. Use this to create a response to a frame or button action in the Flash movie.

JavaScript

This window passes JavaScript commands directly to the web browser.

Javascr	×	
Code	Javascript:	ОК
		Cancel

Story Board tab



The Storyboard view displays a thumbnail and timing information for each frame on the main timeline. See the Capture Movie Frame entry in Chapter 4 to learn how to create screen captures that can be formatted in a

word processor and printed out

3) Movie Overview (Alt-F3)



The Movie Overview provides a detailed overview of all frames, shapes in frames, actions and sounds, buttons, movie clips and ActionScript code in the

movie. If an object/visual element has strange behavior, this Data View is a good way to track down all actions and ActionScript in a KoolMoves project. Toggle settings are saved between sessions.

Open the Properties window for the selected shape.

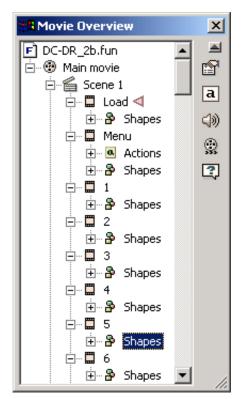


Toggle – display all frames in the movie and expand/collapse all Sound objects in their frame

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Toggle – display all frames in the movie and expand/collapse all ActionScript entries in their frame

Toggle – display all frames in the movie and display all movie clips in the movie below the frames, at the same outline level of the Main Movie expand/collapse all Movieclips in the Movie



4) Actions and Sounds Data View (Ctrl-E)



The Actions and Sounds Data View has frame actions displayed in a vertical table format. Left click on the Duration ellipsis ("…") to open the Duration/Tween dialog, right click on the Frame and Button events to open the Actions and Sounds dialog.

Key frames	Sec	Duration	Frame events	Button/onclip events		
Load				+0+0		
Menu	0.5	0.500 sec	🔒			=
1	1.0	0.500 sec	•	* □		-
2	1.5	0.500 sec		L		
3	2.0	0.500 sec				
4	2.5	0.500 sec				
5	3.0	0.500 sec				
6	3.5	0.500 sec				
7	4.0	0.500 sec				
8	4.5	0.500 sec				
9	5.0	0.500 sec				
10	5.5	0.500 sec				
11	6.0	0.500 sec				
12	6.5	0.500 sec				
13	7.0	0.500 sec				
14	7.5	0.500 sec				
4					▶	

5) List of Shapes (F9)

The List of Shapes window displays all visual elements on the active Key Frame. The order of the elements indicates their relative position in the content stack (i.e., their depth). Click on an object's name to select it; click a second time to edit the name. Use the Shift/Ctrl keys while clicking names to select multiple objects.

Paste places the cut or copied object at the top of the stack.

Object is a mask

- Object is masked
- Object has been selected



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Move selected object Up/Down

Lock/unlock selected object/all objects. Locked objects can not be moved, edited, have effects applied to them or have their properties changed.



Cut selected object.

Objects from the last cut operation are stored in a clipboard. The clipboard contents are listed in the Clipboard folder in the Movie Overview Data View.



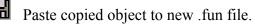
Delete selected object



Copy selected object



Paste copied object



Save As		<u>?</u> ×
Save in: 🔂 KoolMoves	1	💣 🎟 -
Action	Duttons	🛄 Fade - 1
Action Script	Clip Art	🚞 Flash H
🗀 Animated Clip Art	Components	🚞 Flash Pl
ASDG_2nd_Ed	Context Help	🚞 Gradien
🗀 Bin	🚞 Dynamic Text	🚞 Masking
Dones 🔁	🚞 Examples	🗀 Motion :
•		F
File <u>n</u> ame:		<u>S</u> ave
Save as type: .fun	•	Cancel

To lock a selected shape from changes in point position or many other changes, click on the lock button in the shape list popup. To unlock, click again. To lock or unlock all shapes, click on the lock all button.

6) List of Frames (Ctrl-K)



The List of Frames can be used for navigating, renaming key frames, and frame editing (cut, copy,

paste, and reversing the order of frames). Frame selecting, renaming and same looking buttons are analogous to actions covered in the List of Shapes entry.



Paste places the cut or copied frames before the currently selected frame



Reverse order of selected key frames

Set Frame Duration (seconds or tweens) for selected key frame(s)

Interesting things to know:

- KoolMoves allows you to copy and paste the Frame Actions associated with a Frame.
- Key frames without labels are automatically renumbered when their relative position is changed.

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3 4 5 6 7 8 Loop -- 10 --- 11 --- 12

Key Frames

Key frames

--- Load

--- Menu

--- 1

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The second bullet point has a serious implication – name all

key frames referenced by action script code to avoid having to recode references to that key frame each time renumbering occurs.

Other Views

List of Scenes (Shift-F2)

See Scenes in Chapter 1.

Navigation Overview

Views > Navigation Overview...

Go to Frame Overview

This page shows all go-to-frame actions originating from buttons. You can create, edit or remove go-to-frame actions and stop movie actions by making changes in the second through fourth columns.

Na	vigation Overview					×
	Go To Frame Button Acti	ons Go To URL Butto	n Actions			
	2					
	Key frames	From button	From button	Stop movie action	Fame3 Search annuart	1
	1 [Scene 1] 2			no yes	need •	
	3 4		The second secon	yes	intention I	- 1
	5	•		yes		
	1 [Scene 2]		btn_blue btn_red	no no		
	scene2 3		btn_green btn_grey	yes yes		
	4		btn_grey btn_blue50	yes yes		
	6		S7	yes		
	ľ			no		
L	1					

Go to URL Overview

This page shows all go-to-url actions originating from buttons. You can create, edit or remove go-to-url actions by using the tool icons at the top of the page or the button selector in the second column.

Navigation Overview			×
Go To Frame Button Actio	s Go To URL Button Actions		
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Go to url		From button	

Part III – Tools Toolbar (Toolbox) & Menu Commands

Chapter 6 – Drawing / Editing Shapes Chapter 7 – Buttons Chapter 8 – Toolbox Libraries Chapter 9 – Importing Images Chapter10 – Text

Chapter 11 – Movie Clips

Chapter 12 – Transforms & Effects

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Chapter 6 – Drawing/Editing Shapes

Before getting into the drawing tools, let's cover some items you will be using a lot when you start drawing.

Selecting Shapes and Points

Shape and point selection tools are located on the top part of the Tools Toolbar. These tools are used a lot. In addition to providing selection capability, they also allow you to move shapes and points. You can move previously selected shapes or points by dragging the mouse with the left mouse button depressed.

One way to select a shape is by clicking on the shape when the shape selection tool is active. If you click on a shape with the shift key depressed, you will add to any previous selections.

Another way to select one or more shapes is by dragging the mouse across the shapes totally enclosing them. If you drag the mouse with the shift key depressed, you will add to any previous selections.

A third way to select one or more shapes is by invoking the list of shapes (under Views) and selecting from that list. Shapes are automatically named as they are created but you can change the name by editing the name in the

list.

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A point can be selected by clicking on the point when the point selection tool is active. The selection area associated with a point can be set under Points. If you click on a point with the shift key depressed, you will add to any previous selections.

> Another way to select one or more points is by dragging the mouse across the points totally enclosing them. The points can be associated with different shapes. If you drag the mouse with the shift key depressed, you will add to any previous selections.

It is important to appreciate that point and shape selection is very general. You can select multiple shapes or multiple points. The multiple points can even be associated with different shapes. Selected shapes and points can be moved by dragging the mouse or by pressing the arrow keys.



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Shape Menu Commands

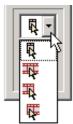
Shape menu commands are used to 1) select shapes, 2) position the selected shape(s) on the stage or in the content stack, and 3) control the scope of changes applied to the selected shape(s). Use the select shape tool to select shapes.

Select/Move (Shapes > Select/Move)

Select/Move applies to shapes, individual shape points, and other visual elements (like text boxes) and can apply over many frames. Selected shapes and points can be moved with the arrow keys. There are four types of shape and point selection (Selection Scope):

- (1) The current frame only (the most common).
- (2) The entire movie.
- (3) All frames from the current frame to the first frame.
- (4) All frames from the current frame to the last frame.

Selection Scope (Shapes > Selection Scope)



The ability to select over multiple frames is very powerful. For example, if you change the color of a shape in the current frame and the shape has been selected over multiple frames, the color change will be applied to each of the selections. To prevent inadvertent sweeping changes, you are first asked if you want to change the other frames. The ability to change selected shapes and points over multiple frames

based on what you are changing in the

current frame applies to most of the functions in KoolMoves -transformations, shape fills, translation, etc. There is an analogous command under the Points menu.



Sometimes you want to exclude some points from possible selection. An easy way to do this is to select the shape associated with the points you want to select and then select the point selection tool. Only the points associated with the previously selected shape will be visible. To hide shapes or points you can use Shapes > Hide Selection or Points > Hide Selection, respectively. Selecting Shapes > Show Shapes or Points > Show Shapes brings the shapes or points back. Shapes > Invert or Points >Invert inverts the current shape or point selection.

Invert Selection (Shapes > Invert Selection, Ctrl-I)

Inverts the objects selected on the stage.

Hide Selection

A toggle command that hides/shows the selected objects. No history is stored, so it only toggles once. There is an analogous command under the Points menu.

Last Selection

Selects the most recent previous selection. No history is stored, so it only goes back one step.

R

Align

The align commands are used to arrange selected shapes on a common base line. The Left, Right, Top and Bottom baselines are based on the extreme value of the selected shapes, while the Horizontal and Vertical Center baselines are based on an average of the shapes.

Left (Ctrl-Shift-L)

The x-axis value for the selected shapes are all set to the value of the leftmost shape.

Right (Ctrl-Shift-R)

The x-axis value for the selected shapes are all set to the value of the rightmost shape.

Top (Ctrl-Shift-T)

The y-axis value for the selected shapes are all set to the value of the shape with the lowest y-axis value.

Bottom (Ctrl-Shift-B)

The y-axis value for the selected shapes are all set to the value of the shape with the highest y-axis value.

Horizontal Center

The x-axis value for the selected shapes are all set to the average value of the shapes.

Vertical Center

The y-axis value for the selected shapes are all set to the average value of the shapes.

Change Depth

The depth of the selected shape(s) can be changed with the following commands. The depth of a shape can also be changed in the List of Shapes data view. Depths of named objects can also be changed dynamically.

Bring Forward (Ctrl+Up)

Moves shape up one.

Send Backward (Ctrl+Down)

Moves shape down one.

Bring to Front (Ctrl+Shift+Up)

Moves shape to top of content stack.

Send to Back (Ctrl+Shift+Down)

Moves shape to bottom of content stack.

Bring Forward Selection... (Alt+Up)

Lists all shapes above the selected shape and let you select where to position the selected shape.

Send Backward Selection... (Alt+Down)

Lists all shapes below the selected shape and let you select where to position the selected shape.

Group

Combines the selected shapes into a meta-shape, allowing the shapes to be treated as a single shape.

Add to Group

The selected shape is added to an existing group of shapes.

Ungroup

A group is broken up into its component shapes.

Select All

All objects on the stage are selected.

Unselect All

All objects on the stage are unselected.

Points Menu Commands

Points menu commands are used to 1) select points on the selected shape, 2) add, delete, or move points on the selected shape, and 3) control the scope of points changes applied to the selected shape(s). After a shape has been selected, use the point selection tool to select points, then click and drag to move.

Commands covered under the Shape Menu

- Select/Move / Selection Scope
- Hide Selection

Add

Adding points allows you to smooth a shape, add curves or corners or otherwise modify an existing shape or line. After selecting this tool, click on the outline to add a point.

Delete

Deleting points allows you to simplify a shape, remove a curve or corner or otherwise modify an existing shape or line. After a shape has been selected, use the point selection tool to select the points to delete.



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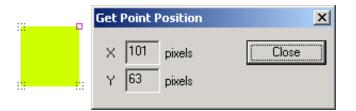


Append to Line

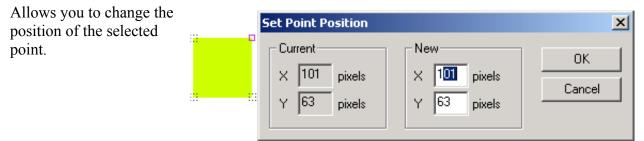
Allows you to add new line segments to the end of the selected line.

Get Position

Returns the position of the selected point.



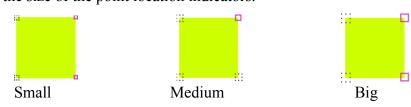
Set Position



Selection Area

You have three choices in setting the size of the point location indicators.

- Small -
- Medium -
- Big-



Color Selected Points

There are three choices in setting the color of the selected point location indicators.

- Default -
- Light -
- Dark -





Color Unselected Points

Use the color option window to change the unselected points color.

- Default -
- Custom –



Edit Menu Commands

Undo/Redo Buttons/History



The Undo and Redo buttons in the Menubar will undo or redo one action at a time. To view a list of actions, click on Undo History or Redo

History under the Edit menu to display a list of prior/subsequent actions. You can revert to any previous state or move back to a later state by selecting from the appropriate list.

Undo	Ctrl+Z
Redo	Ctrl+Y
Undo History	
Redo History	

Cut Shapes (Ctrl-X)

Selected objects are deleted from the stage and stored in the clipboard.

Copy Shapes (Ctrl-C)

Selected objects are stored in the clipboard.

Delete (Del)

Selected objects are deleted from the stage.

Paste Shapes

Objects stored in the clipboard are pasted to the stage.

Paste Shapes to Beginning

Objects stored in the clipboard are pasted to the stage on the current frame and all preceding frames.

Paste Shapes to End

Objects stored in the clipboard are pasted to the stage on the current frame and all succeeding frames.

Paste Shapes to File...

Objects stored in the clipboard are stored to a .fun file.

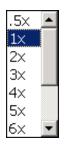
Miscellaneous Commands

Magnification



In the Menubar, Select a magnification level from the drop down list of 0.5 to 10. Changing the magnification level causes the Canvas to center on the selected visual element(s); when the magnification is set to 1, the

Stage position is reset to the last position set by the Reposition Movie Frame command.



Trace Image

File > Trace Image > Display Image – open and display an image (.bmp format) in the background of a frame for the purposes of tracing. The bitmap is centered on the screen. Use the drawing tools to duplicate the lines of the image. When you are finished tracing, clear the image with File > Trace Image > Clear Image.

Select Same Color

File > Select Same Color - selects additional shapes with the same colors as the currently selected shape(s).

Drawing Tools

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You select a drawing tool by clicking its icon in the Toolbox. A small triangle at the lower right of a tool icon indicates hidden tools. Positioning the pointer over a tool displays a tool tip. To select a tool, click its icon. If the icon has a small triangle at its lower right corner, click on the triangle or hold down the mouse button to view the hidden tools; then, click the tool you want to select.

When a drawing tool is active the bottom of the Toolbox displays three options: fill color, border or line color, and border or line thickness. These options are present with any of the drawing tools and once set will remain until changed. Changing these options does not affect existing shapes already drawn.





The freehand drawing tool allows you to draw like you would using a pencil. The first and last points are automatically connected when you release the mouse. If you don't want them to be connected, after the shape is drawn change the Closed

property of the shape. The points generated by freehand drawing are curve fit to achieve a modest number of points. You can add or delete points later if needed.

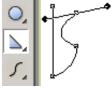
The tools for drawing primitive shapes make it easy for you to draw circles, squares, rectangles, ellipses, stars and polygons. You click the left mouse button at one corner of

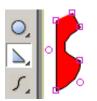
the shape you want to draw and drag the mouse to the opposing corner of the shape. Release the mouse and the shape is drawn.



Shapes drawn point-by-point allow you to control the placement and number of points. You click the left button to define each point and continue until you have completed the shape.

To add a curve, drag the mouse after clicking to create a point. This will open a vector tool that allows you to define the angle, direction and amplitude of the curve.





To finish, you double-click. The first and last points are automatically connected. If you don't want them to be connected, change the Closed property of the shape or choose the open version of the tool.

There are situations when you want to have one section of the shape without a border (e.g. in drawing a nose).



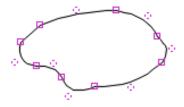
Click the left button to define each point and continue until you have completed the shape. To finish, double-click. After double-clicking, the border is drawn. The fill color is white by default.

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Use the Shape Fill tool to color the nose with a flesh color. The border is not connected between the first and last points that were drawn. If we later want to fill in the border between the first and last points, change the Closed property of the shape. To remove the nose color and make the interior of the shape transparent, change the Filled property of the shape. This will give us a line.

Shapes and lines with curves are defined by on-shape points and off-shape points (indicated by dashed circles). Technically, curves are quadratic Bezier splines. You can change the shape of the curve by moving selected points, on-shape and off-shape, by dragging or using the arrow keys.



You can control the appearance of a shape through its:

Fill
 Border thickness
 Border/line color
 Last border segment

Lines are shapes that are not filled and have a border with the last segment not drawn. Lines can be changed to shapes by setting the Filled and Closed properties to yes. Text does not have a border.

Drawing Lines

Draw Varying Line Thickness

There are there ways to achieve line thickness variation:

1. In Cartooning mode, you can set a tapered line style in the Shape Properties dialog. It will not work with symbol shapes, shapes with non-linear morphing, or shapes that are filled or have a closed border.

2. Draw two shapes, one on top of the other. Both shapes are set to zero line thickness. The shape behind is then set to the desired line color. By adjusting the points for the shape underneath and making it slightly larger than the shape on top, you achieve the look of a line bounding the shape on top.

3. To achieve a line that looks a little more hand-drawn, use just one shape with the line thickness set to 1. Go along the line and plunk down a few random additional points and intervening curves. Then move these points and curves just slightly out of line, in a random, pencil-like way, until the line looks more hand-drawn. Still relatively straight and all, but with slight variations in placement and thickness so it looks a little more natural.

Tapered Lines

In Cartooning mode, you can set a tapered line style in the Properties dialog. It will not work with symbol shapes, shapes with non-linear morphing, or shapes that are filled or have a closed border.

Reshaping

The heart of animation is movement. Movement is achieved by changing shapes from one frame to the next. Change can take many forms: moving a shape from one position to another, moving or transforming points associated with a shape, changing the color of the interior or border of the shape, adding or removing points from the shape. KoolMoves provides a number of tools to accomplish all these tasks without getting in the way of your creativity.

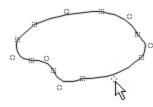


To move a shape or a group of shapes is simple. Select the shape or group of shapes with the shape selection tool and drag the mouse. For fine precision movement, you can use the arrow keys. The combination of shift plus an arrow keys produces a movement of 10

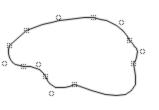
pixels.

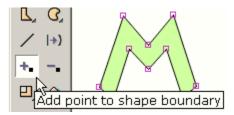
To move a point or a group of points is equally simple. Select the points with the point selection tool and drag the mouse. For fine precision movement, you can use the arrow keys.





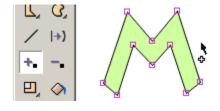
Shapes and lines with curves are defined by on-shape points and off-shape points (indicated by dashed circles). You can change the shape of the curve by moving the points.

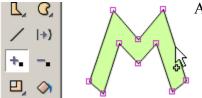




To add a point to the boundary of a shape use the Insert Point tool (whether the shape has a border or not or whether the fill is a color or a bitmap).

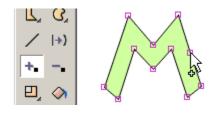
You get a cursor that indicates when you are allowed to add a point. It looks like this when you are not on a boundary line.

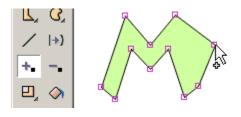




And it looks like this when you are on a boundary line.

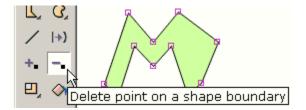
Click the mouse and a point is added.

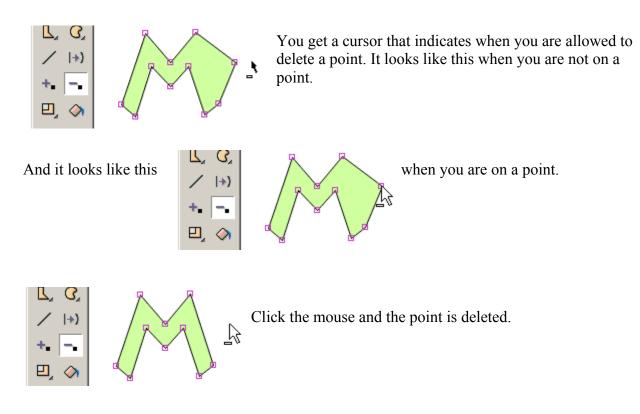




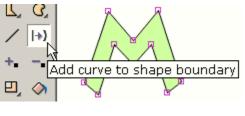
Without releasing the mouse, you can drag the point to a new position.

To delete a point on the boundary of a shape use the Delete Point tool.

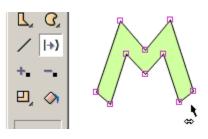


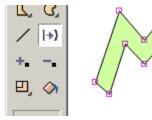


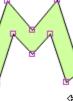
To change the boundary of a shape from a straight line to a curved line, use the Add Curve tool.



You get a cursor that indicates when you are allowed to add a curve. It looks like this when you are not on a straight boundary line.

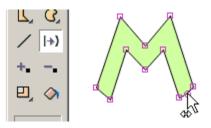


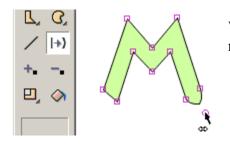




And it looks like this when you are on a straight boundary line.

Click the mouse and a curve is added.

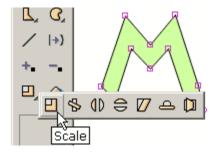


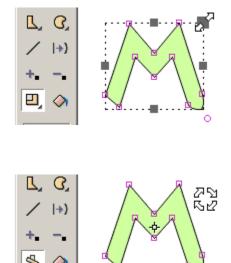


Without releasing the mouse, you can drag the curve point to a new position.

To scale, rotate, flip horizontally or vertically, slant, squish, or create perspective on one or more selected shapes or one or more selected points, use one of the transform tools.

ò

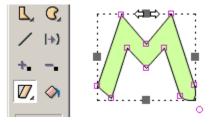




Most of the tools present a set of handles that you can drag in different directions to achieve the effect you want. Shown on the right, the mouse is dragging the handle associated with scaling the same amount in the x and y direction.

The rotation tool lets you define the center of the rotation indicated by the small square plus cross mark. You drag this square to set the center of rotation.

Another tool slants the selection.



Not shown are the flip, squish, and perspective tools. All the tools transform text except slant and perspective.

Squash is the effect used in animation to show the effect of gravity on an object. Stretch is the effect used to show the effect of movement against gravity. A good example would be a rubber ball bouncing. When the ball hits the ground, its shape changes from a circle to an ellipse and as it accelerates back into the air (bouncing) its form stretches slightly. Both squash and stretch can be created by using the squash tool in the effects tool section.

Bones

The Bones capability is only available when the Cartooning interface has been selected. Bones allows the designer to attach a skeleton to a figure. In comparison to expensive character animation software, the KoolMoves Bones feature is relatively primitive, but is still a very powerful feature: a shape (or figure) with bones can be fluidly redrawn by manipulating the skeleton. When combined with morphing, Bones allow you to have graceful animations without the tedious task of point by point redrawing.

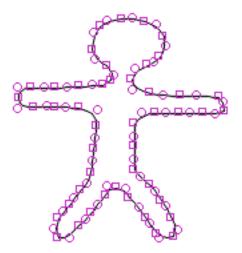
Bones can not be attached to symbol shapes; if you are currently drawing shapes as symbols, you should probably turn off this option in File > Preferences.

Shape		nes	×
All	Look	Effects	Behavior
Is a B Is a S	utton ymbol		
IsaM		no	
Morph	ning Hints		
Morph Has B		standar yes	1
ļ			
1			1.

we	Drawing/Selection	Toolbars	Play	Libraries	Audio Editors	Ima
Drav	wing					
Πį	– Draw shapes as symb	ols (unched	ck for ca	rtooning or	for shape morph	ning)

When the Interface style is set to Cartooning, the Properties Data View has an additional Behavior field called Bones. This field will only appear when a non-symbol shape is selected.

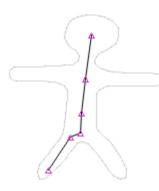
To attach bones to this simple figure, indicate in the properties dialog for the shape that the figure has bones. Bones can be attached to a single shape or a shape group. To add or edit bones, press the Bones button at the top of the dialog.



Tool	<mark>w bones joint by joint double-click on last joint</mark>	Similar to editing button states, you are given an environment for editing bones against the faint image of the shape to which the bones are attached. The draw bones tool behaves identically to the line drawing tool in the main editing
Ð		window.

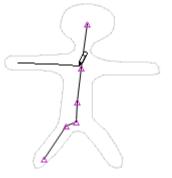
You draw bones by dragging the mouse and clicking the mouse at each joint.

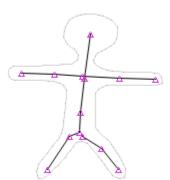




Double-click to finish. When you release the mouse, all the joints are highlighted.

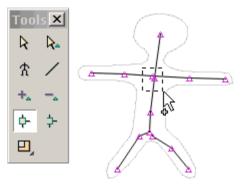
Other limbs are drawn in a similar fashion.

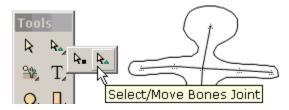




This is what is looks like when all the bones are added.

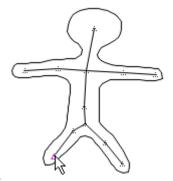
Certain joints you would like to be shared between different limbs. The way to do that is by using the join tool. Press the join tool and drag a box around the joints you would like to act as a single joint. Under the join tool is an unjoin tool.





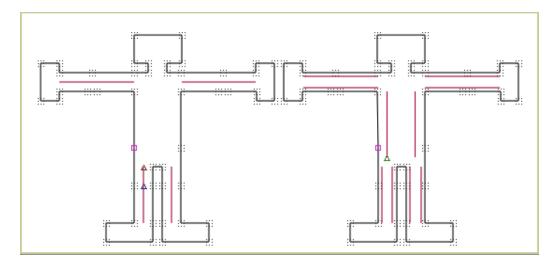
When you are finished editing the bones, press the return to key frame button. This shows the figure with its newly added bones in the main drawing window. You can move joints in this window by selecting the select/move joints tool.

This illustrates selection and movement of a joint. The dynamic interaction between the bones and body of the figure is based on how the joints in the skeleton correlate to the shape points. If more than one joint is associated with a shape point, shape distortion may occur. Shape points that share common joints will tend to move together. The greatest control is achieved when a point is controlled by one joint.

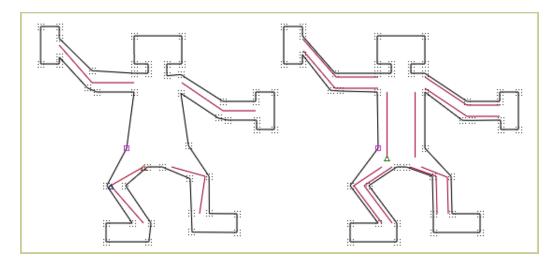


You can view the primary and secondary joints the program uses in controlling each shape point by clicking on Options > View Associated

Joints and selecting a shape point (this only works when only one shape point is selected, unlike the modified image below). You can not change the assignment of joints to points.



The figure on the left has two joints controlling the hip point, while the figure on the right has a one to one relation (they are also physically closer). Double Bones, or multiple bones, increase the number of joint locations available for controlling the shape points. The extra bones in the figure on the right decrease distortion and allow for greater control.



Question to Flashpulse – Comics (flashkit thread 663649)

clejan Registered User	I would like to do comics, so I need to choose from different faces and then easily modify the facial features to express different emotions. I don't need animation at this point, maybe later. Is this possible, and if so, how?
Join Date: Dec	Thanks,
2005	-Iuval

FLASHPULSE 🕅	Here's how I would do it
	1.) The best thing to do is create your character first. (facing forward, left and right)
C. T.	2.) Now delete everything except the eyes and eye-browes.
Join Date: Nov 2002	3.) Save this to as FUN file and name it something like "normaleyes_forward _character1.fun".
Location: USA Posts: 1,136	4.) Now edit the eyes so they look angry and name it "angryeyes_forward _character1.fun".
	5.) Do this again with different expressions and save them named as they are.
	The reason in doing it this way is so when editing your character for expressions, all you have to do is load a FUN file into the scene without editing over and over again.
	Now if your eyes for your character were for facing left (for example), I would name it "normaleyes_left_character1.fun". And the "character1" stands for the characters name. This makes it faster to read what you want without loading the wrong FUN file.
	Now do this for all body parts such as legs, arms, mouth and so forth. I know this sounds like a long process but it will save you alot of time. Hope this helps and let me know if you need more help.
	Oh and if you don't add extra "points" when editing and just move the points to create the expressions. Later when you decide to do animation Example - load "normaleyes_left_character1.fun" into frame one and "angryeyes_left_character1.fun" in frame two and use the "morph" feature, you will be able to use tweens with your "eyes" (FUN files).

Chapter 7 – Buttons

Because the interface is WYSIWYG (what you see is what you get), the button appears in the final movie for each frame the button appears in the editing environment. In other words, if the button is missing in a frame, it will be missing in the final movie in that frame. Let's cover some of the facts and vocabulary concerning buttons.

Button Object: Buttons are a built-in class of ActionScript. Unlike other built-in classes, there is no button constructor, ie, buttons have to be made manually at author time. In other words, they can not be constructed or removed programmatically. To simulate dynamically created buttons, use movie clips programmed with button like behavior.

The action to be performed by a button, how the action is initiated and the button's appearance is defined either through the properties dialog or programmatically, after the button has been created. Buttons are one of the three classes that KoolMoves can use as symbols (the other two classes are movie clips and KoolMoves components).

Button States: A button can have different appearances, reflecting whether the mouse is away from the button ("Up" state), over the button ("Over"), or has clicked (or "pressed") on the button ("Down"). The Up state is created 1) when an item is changed to a button with the Convert to Button tool, or 2) created from scratch when the Create button tool is clicked on. Click on the Over and Down state buttons to create or edit the appearance and actions of the other two states. Once a button exists and is selected, all three states can be accessed by clicking on the states button at the top of the properties dialog.

The Over and Down states can have their own sound, appearance, animation, etc. Many effects are possible, for example, adding a text object to the Over state in addition to the button image has the effect of a Screen Tip. By adding a movie clip to a state you have almost all the effects and features available on the main timeline: add motion scripts and text effects, import swf or flv movies or animated clip art, and so on.

Copying Buttons: The actions for a "symbol" button cannot vary from frame to frame. If you want a button's actions to change from one frame to the next, copy and paste the button in the same frame as the original button and then cut and paste the copy to the frame where you want the actions to be different. The procedure of pasting a button to the same frame as its original breaks the link between the two buttons, and allows you to have identically appearing buttons that have different actions (it also has a different name).

Hit Area: The button area that is receptive to the mouse. The hit area is expressed as a percentage of the area of the Up state of the button. In other words, a 200% hit area is twice as big horizontally and vertically as the outline of the button when the mouse is not over it.

The Over and Down states do not affect the shape or size of the hit area. This means that if the button appears to have moved when the mouse pointer rolls over it, the hit area has not necessarily moved (however, if someone has embedded the button in a movie clip programmed to move, all bets are off).

Mouse Events: there are seven mouse events which can be used by buttons to execute a command:

Press – The button is clicked on.

Release – The mouse button is released after the button is clicked on.

Release Outside - The mouse button is released outside the button after clicking on the button. Roll Over – The mouse pointer moves over a button.

Roll Out – The mouse pointer moves outside a button.

Drag Over – The mouse button is clicked on the button, and without releasing the mouse button, the mouse pointer is dragged away from the button and then mouse pointer is dragged over the button.

Drag Out - Mouse pointer is dragged outside a button after clicking on the button.

Text in Buttons: Button states can contain both static and dynamic text boxes, but the dynamic text boxes should be set to read only. If the mouse pointer clicks on an editable field within a button, the attempt to open and edit the field will interrupt the button execution.

Creating Buttons

In KoolMoves, any shape, group of shapes, or text box can be turned into a button. Buttons can also be created with an initial empty state, much like movie clips. While buttons can not be created dynamically, after a button is created its appearance and behavior can be modified dynamically with ActionScript.

Converting an item to a Button

To convert the selected shape, symbol or text box (static or dynamic) on the Stage into a button, click on the Convert to Button tool. Shapes, symbols and static text boxes can also be converted to buttons by setting the "Is a Button" Behavior field to yes in the Properties Data View. Objects converted to buttons are placed in the Up state.

.ook Effects	Behavior
Is a Button	no 🔻
Is a Symbol	no
Is a Mask	yes
Masking Depth	
Morphing Hints	none

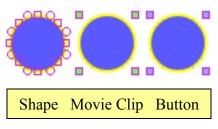
Once an object becomes a button, it can not be changed back; the source object is removed from the stage and placed in the new Up State, much like when objects are converted to movie clips.

Button btn1		×
Symbol St	ates	a
All	Effects	Behavior
Effects		
Fade/size	none	
Spin/rotate	none	
Filters	none	
Blend mode	norma	
Behavior		
Library symbol	no	
Actions	none	
Sound	none	
Hit area	100 %	
Is a mask		
Masking depth		
Bitmap caching	no	
1		
1		

Because the source object is no longer on the stage, the Look fields are no longer applicable, and the Effects have changed to Fade/Size, Spin/Rotate, Filters and Blend Modes (the missing effects can not be applied to buttons). The first two effects are covered in Shapes Effects in Chapter 5, the last two are covered in Movie Clip Effects in Chapter 11.

The Behavior fields are also fewer, though there is the new Library Symbol field that can be used to add the button to the symbol library and assign a description.

On the Stage, buttons look a lot like movie clips when selected.



Adding a Button (from Scratch)



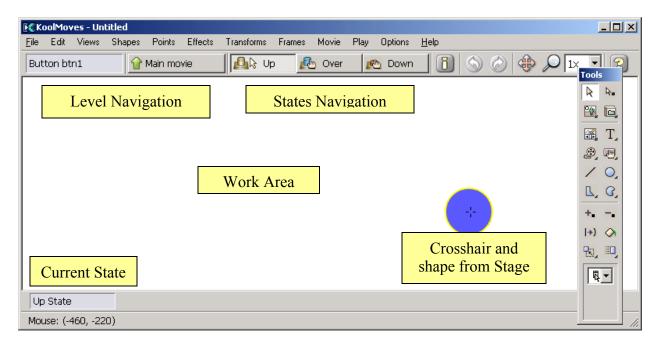
Clicking the Add Button tool creates an empty button and opens the Up State edit screen. Analogous to creating an empty movie clip, returning to the Main Movie without adding any visual elements to the Up State will result in a 10 pixel by 10 pixel empty button

being placed near the center of the Stage. ••• Once the button is not selected it will be completely invisible, and the only evidence of its presence will be its entry in the List of Shapes data view.

Working with Buttons

Editing States

With a button selected, click on the States button in the Properties Data View to open the states editing environment. The Up state already exists, and that is where you start. The Tools Toolbar has been moved to the right so as not to obstruct any of the features of this window



If you are starting from the Add (empty) Button tool, the screen will be the same except no shape will be present. The crosshair is either centered on the shape(s) initially selected on the stage or in the case Add Button, the center of the stage in the main movie.

The States editing environment is very similar to the Movie Clip editing environment. Almost all the Tools Toolbars features are functional in a button state, and those that are not can be made functional by first creating a movie clip within the state, and then accessing the function. This is called embedding. You can also use embedding to add Frame Actions to a button.

Within a button state or movie clip, use Options > View Parent Movie to see a semi-transparent overlay of the parent object's contents.

If you press the Over button for the first time, a popup will ask if you want to create the over state from a previously drawn state or if you want to draw it from scratch. If you are only changing the color of the state, you would select copy the up state and edit the color from the value corresponding to the up state to the value you want to correspond to the over state.

No Over Button State	×
?	
Copy up state Copy down state	(OK)
C Copy over state	Cancel
🔿 I will draw it	

Copy Movie Clip	×
<u>ې</u>	
Movie Clip Frames Share movie clip frames	<u>(ОК</u>)
C Make a complete copy of movie clip frames	Cancel

You have the option to included embedded actions when copying a state, and the option to decide on whether the actions are linked (share movie clip frames) or completely separate actions.

In the Over State you can change the properties of the over state and edit the shape corresponding to the over state. A faint image of the shape corresponding to the up state is displayed under the shape for the over state for alignment assistance. All of the above information about the Over State are equally applicable to the Down State.

Adding Sound to Button States

If you want a sound associated with the Over State, return to the Main movie level and add the sound to the Over Sound tab under the Sound field. If you want a sound associated with the Down State, add the sound to the Down Sound tab. Setting the Loops value to 999 will have the sound continuously loop.

The Over State of a button is activated for roll over, roll out, drag over, and drag out mouse events. The Down State of a button is activated for press and release mouse events.

At this time, KoolMoves only supports the PCM wav and the mp3 file types. If you use the same sound file multiple times throughout the movie, it will be referenced that many times in the FlashTM movie but only defined once.

Sound files tend to be huge which can make the exported swf file huge. To conserve resources, take these steps: in a sound editing program convert from stereo to mono and to the smallest sample rate that gives you the quality you need. Shortening the sound track also helps.

Sounds do not play when running your project in KoolMoves' internal player.



If a sound plays longer than the movie plays and if the movie loops, the sound from the first loop will continue playing during the second loop until the sound from the first loop finishes. This effect worsens as the movie continues to loop. To solve this problem, add the Stop Sound action to the last frame in the movie.

If your sound file is sampled at a rate other than 5500, 11025, 22050, or 44100, the sound will play in the Flash player at a rate nearest to one of the four rates listed above.

Adding Actions (Go To URL)

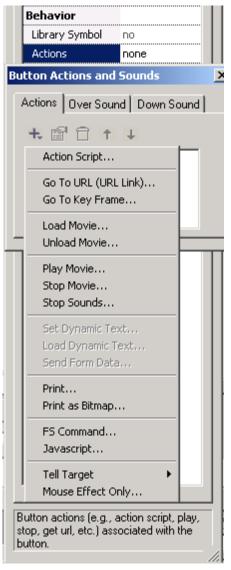
Click on the actions field in the properties window to assign and edit the actions for the button.

The + button presents you with the possible button actions, most of them self-explanatory. Each of these actions can respond to one or more mouse events. With the exception of Send Form Data, the other available button actions are covered in detail in the Score Data View > Actions and Sounds tab. Send Form Data retrieves text from dynamic text objects and sends it to a URL.

Selecting Go To URL (equivalent to the ActionScript getURL() global function) presents us with this popup. We can select which mouse events trigger the Go To URL action.

Get URL			×
On Mouse I Press Release	9	Roll over Roll out Drag over	OK Cancel
URL URL target	page1.htm	nl	

For use on the web, the URL for the loaded movie can be an absolute or relative URL, but, for testing purposes, all the movies must be in the same directory without directory or disk drive specifications in their names. Also, there should be no spaces in the name as this will cause problems in Netscape web browser. Http:// should not be in the URL for



a loaded movie because it will also cause problems with Netscape web browser.

The optional URL Target field (comparable to the window argument in getURL()) can be used to load the document into a named browser window or browser frame. If this field is left empty, the document is loaded into the current browser window or frame.

The dropdown list has four preset values: blank, _parent, _self and _top.

_blank – Opens the document in a new, anonymous browser window.

_parent – Replaces the frameset that contains the current movie.

_self – Loads the results of a script execution into the current browser frame or window.

_top – Replaces all framesets in a web page with the specified document.



On pressing OK, the action is added to the list of actions associated with this button. Any action can be edited or viewed in more detail by double-clicking on it or by selecting it and then selecting the properties button (second from the left at the top of the popup).

If we want a roll-over effect when the mouse passes over the square in addition to going to the URL on mouse release, we add a second action, Mouse Effect, to our list of actions and select Roll Over as a triggering mouse event. Mouse Effect action is unique in that is only controls the appearance of the button with no resulting action taken.

Mouse Effect Only		×
On Mouse Events Press Release Release outside	 ✓ Roll over ✓ Roll out ✓ Drag over ✓ Drag out 	OK Cancel

Button Actions and Sounds	×
Actions Over Sound Down Sound	
+ 🖆 🗇 🕇 ↓	
Get page1.html on release On release, roll over	

On pressing OK, we see both actions associated with this button.

Address Formats in Actions

When testing a movie using Play in Browser, any HTML and SWF files, referenced by Get URL or Load Movie actions, MUST be in the same directory as the fun file for these button actions to access these files or set the directory for playing the movie in File > Preferences. Load movie loads a movie without closing the current movie. All of the higher levels have transparent

backgrounds which allows to see the layers underneath. Unless you include in the loaded movie a shape under all other shapes that equals or exceeds the size of the movie frame and that is filled with an opaque color or a bitmap, you will see the first movie underneath the loaded movie. The movie background color, size, and speed are set by the movie at level 0. None of the button actions function in the KoolMoves internal player.

Roll-Over Example

This basic tutorial will define the steps necessary to create a simple rollover effect using an oval button with a gradient fill. We start by drawing an oval.

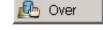




The oval is given a gradient fill and the border is removed by setting the border thickness to zero.

Click on the Convert to Button tool. To produce a roll-over effect, the button must have

an over button state; click on the Over State button at the top of the screen. Now we are ready to define the over state of the button (the



button's appearance when the mouse is over the button).



Because the over state has not been defined, we are asked if we want to create the over state from another state we have created or if we want to draw it ourselves. We select to copy it from the up state. If we had selected the last option to draw it ourselves, we would be free to draw any text or non-text shape. If we position the over state with an offset relative to the up state, when the mouse goes over the button while the movie is playing the button will shift in

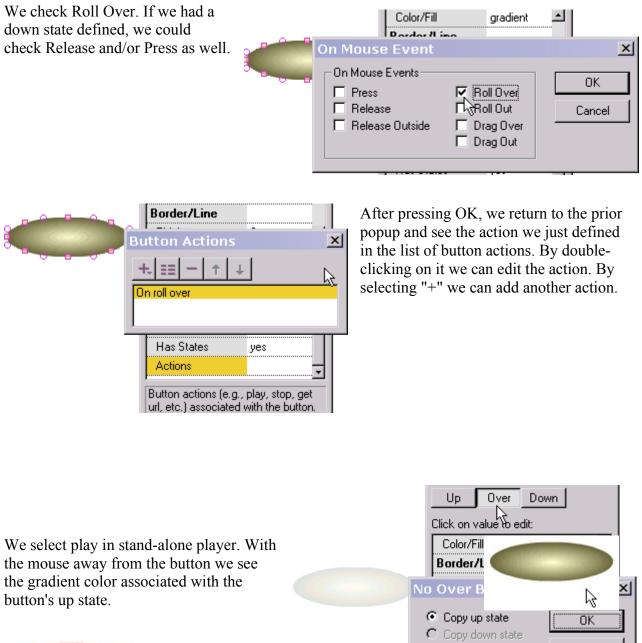
position reflecting that offset.



To make the button's over state different than the up state, we change the gradient colors of the button's over state. After selecting the oval shape in the Over State, open the Properties Data View and launch the Color/Fill dialog.

We press the Main movie button at the top of the properties popup to exit the over state and we are ready to test the roll-over effect just created.

If we want an action to occur when the button is pressed, we would select Get URL, Go To Frame or whatever the action is. We can have as many actions occur responding to mouse events as we like. But to achieve a simple roll-over effect which is our current task, we only need to select Mouse Event.



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With the mouse over the button, we see the gradient

Cancel Copy over state I will draw it

color associated with the button's over state. Our test is successful!

To use as a navigation element, we could place text over the oval. On moving the mouse over the text, the background oval would change color.

Printing from Within a Movie

The **print()** and **printAsBitmap()** ActionScript commands provide the capability to print frames from within a movie. The print() function will send vectors to PostScript printers and rasters to non-PostScript printers. printAsBitmap() only sends raster information but supports alpha channels and color transformations. printAsBitmap() is functionally identical to print().

print (level)
print (level, "Bounding box")
print ("target")
print ("target", "Bounding box")

Options for the Bounding box :

- bmovie (the bounding box of a specific frame)
- bmax (all of the bounding boxes of all the printable frames)
- bframe (the bounding box of each printable frame)

To limit the printing to specific Key Frames, label the selected key frames to be printed as #P, otherwise all frames (including tweens) will be printed.

Tell Target Actions

Tell Target is a means to communicate across multiple timelines. Any movie can control another movie. Your movie has multiple timelines when

- 1. You create a SWF Object
- 2. You load a movie into a layer

There are three basic Tell Target functions built into KoolMoves.

- 1. Stop
- 2. Play
- 3. Stop Sounds

More will come later. These actions are located in the Advanced section of the Add Action popup menu.

The tell target actions work just like regular actions with one difference - you must define a target in the target box. Inside a SWF each target is laid out much like a directory. To access the current main movie's timeline you can use: /. This can be used anywhere to control the current movies timeline. The ../ syntax can also be used to control a higher movie's timeline. So, for example, lets say you want to control the main timeline from an imported SWF Object with Tell Target you would use the ../ syntax. For loaded movies the syntax is a little different. To use Tell Target on a loaded movie you use _leveln/ where n is the level of the loaded movie. If, for example, you want to control a loaded movie in level 1 the target would be: _level1/. To control a SWF Object from the main movie you can use either /Object name or just Object Name.

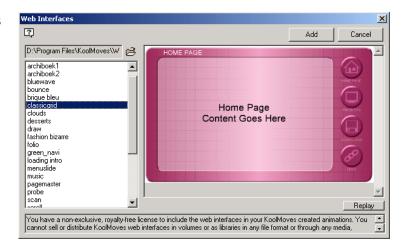
Chapter 8 – Toolbox Libraries

The Tools Toolbar Library drawer allows users to work with pre-packaged text effects, clip art, web interfaces and buttons. These visual elements are stored in fun files, which means that you can load these files like regular projects and edit them, but we recommend that you use the toolbox to import them into your project. They can also be imported into movie clips.

While Buttons and Clip Art are added to the current frame when imported, Text Effect Templates, Animated Clip Art and Web Interfaces add additional frames to your project. Appendix E – Toolbar Library Listings, has a list of available Motion Scripts, Text Effect Templates, Web Interfaces, Clip Art Gallery Categories, Animated Clip Art and Button Gallery Categories.

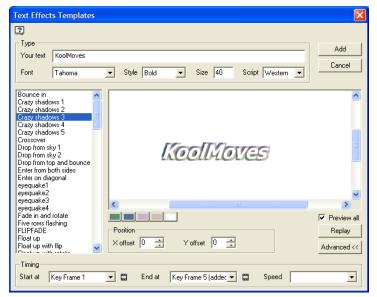
Web Interfaces

The web interfaces library was created by several professional graphic designers. You can modify the content, color, and behavior – have a working home page in minutes. They also serve as examples that you can learn from.



Text Effects Templates

T KoolMoves provides a library of text effects templates. Select Libraries > Text Effects. These are regular KoolMoves .fun files which provide the layout and motion paths for text effects. You enter your text and font selection and the software performs the text and font replacement. Select a text effect from the selection of text effects on the left. You can see the text effect in real-time on the right, superimposed over the background movie.



Under the animated text effect, there are colored buttons. Each button represents a color in the template. You can change the colors of the text effect by pressing these buttons and selecting different colors.

To reposition the text effect on the screen, change the values of the X Offset and Y Offset. Zero offsets correspond to a centered position.

To change where the text effect starts relative to the underlying movie, select a Start At key frame (under Advanced>>>). Frames that exceed the current length of the movie have "added" in parentheses. The button to the right allows you to view that key frame. The text effect has a natural frame length which is reflected in the End At key frame. You can override this if you want to stretch the text effect to cover more of the underlying movie. In most cases, you will not need to change the End At key frame. Changing the End At key frame does not affect the speed of the text effect because as you lengthen the text effect, the tweens for each frame are decreased. To control speed independent of number of key frames, set the Speed at a setting between Very Slow and Very Fast or change the speed of the main movie (Movie > Movie Speed). The Speed setting affects the number of tweens between the frames.

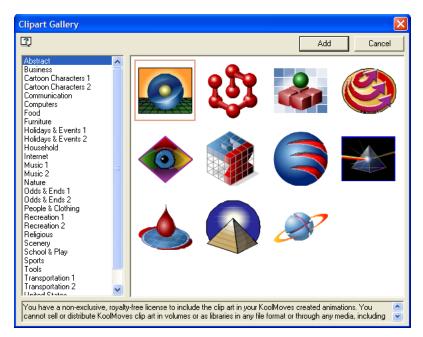
To add the text effect to the underlying movie, press Add. You are free to use any of the positioning, coloring, and transform tools to edit the text effect at this time or you can undo the text effect by pressing the Undo button.

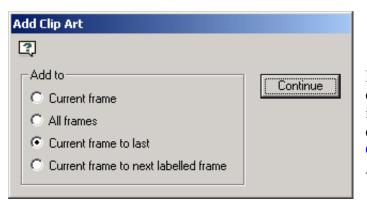
If you want the last frame of the text effect to play for a long time, increase the number of tweens for the previous frame or duplicate the last key frame a number of times using Frames > Insert Copy of Frame. Also, you can use Edit > Paste to End of Movie to paste the text characters in the last frame of the text effect to the remainder of the movie.

Clip Art

260 clip art items are included with the registered version of KoolMoves. They were created in KoolMoves and were designed specifically for use in Flash movies. The clip art is found in the Clip Art folder inside the KoolMoves folder.

Click on a folder category to display the contents. Click on an item to select it and then click on Add to choose on which frames to add the image.





For information on importing third party clip art, see the Importing Clip Art entry in Chapter 9. For a listing of available clip provided with KoolMoves, see the Clip Art Gallery Categories entry in Appendix E.

Animated Clip Art

Animated Clip Art can be viewed as independent animation projects, developed with their own movie speed and tween settings. Additionally, unlike Clip Art, which consist of vector graphics stored in a single frame .fun file, Animated Clip Art are multi-frame .fun files. When animated clip art is imported, the host project's speed setting applies so adjustments may be necessary; frame duration/tweens will be based on the destination projects default setting. If the animated clip art requires more frames than are available at its insertion point, KoolMoves will add additional frames. It is often simplest to import animated clip art into movie clips where they can have their own tween setting separate from the main timeline.

Select from the names of animated clip art in the left list box and press Add to add to your animation. To preview the entire movie, check Preview All. Otherwise, only the animated clip art will be previewed. The default directory is \KoolMoves\Animated Clip Art\.

Animated Clip Art			×
?		Add	Cancel
3dball 3dglasses butterfly lady lavalamp light motionmeter neongrid rotatecube rotateglobe rotateglobe rotatepolyball soundwaves stagecurtain	Position X offset 0 X offset 0 X		 Preview all Replay Advanced <
	End at Key Frame 7 (addec 💌 🛱 Sp icense to include the clip art in your KoolMoves creat plumes or as libraries in any file format or through any r		

- Color Boxes User can change solid color fills used by animation.
- X & Y Offset Adjust the placement of the clip art relative to the center of the frame.
- Timing, Start at Select an insertion point for the animation defaults to active frame.
- Timing, End at The process will add frames to the current project if required.
- Timing, Speed adjusts the number of tweens used by the animation, based on the default tween setting of the destination project.

Button Gallery

About 70 buttons are included with the registered version of KoolMoves. They were created in KoolMoves and were designed specifically for use in Flash movies. The buttons are found in the Button folder inside the KoolMoves folder. Click on a folder category to display the contents. Click on an item to select it, press Play to see how it responds to mouse actions, and press Add to add the button to your movie. Upon pressing the Play button, the button will display in the Flash stand-alone player if you have one; otherwise, your default web browser will display the button. Move your mouse over the button and click on the button to see the different behaviors of the button.

Button Gallery	
Abstract Business Communication Email & Internet Makulaf 1 Music Navigation 1 Navigation 2 Odds & Ends 1 Odds & Ends 2 People	Add Cancel Play
	-free license to include these library buttons in your KoolMoves created animations. A over library buttons in volumes or as libraries in any file format or through any

Buttons created with KoolMoves prior to version 5.1 are grouped shapes, with one of the shapes designated as the button and the rest of the shapes just regular shapes. The button shape is probably at the top or bottom of the shape list. See the Button Gallery Categories entry in Appendix E for a list of buttons provided with KoolMoves.

KoolMoves User Manual

Chapter 9 – Importing Images

Static Images (BMPs, GIFs, JPGs, PCXs, PNGs, and TIFs)

This function, accessible through File > Import Image or the Image Import tool, creates a rectangular shape filled with the image file you select. The initial image shape and size is based on the image file, but the four points of the rectangle can be individually moved or more points can be added. Alternatively, you can create a shape and fill it with a bitmap using the shape fill tool – the image will tile starting from the top left corner.

Some things that are generally true: 1) bmps are not the most efficient format; see if the image is available in other formats, 2) gifs are smaller than pngs and adequate for screen based purposes, but pngs of the same image may be crisper and often look better in print media.

Problem – jpeg loads as blank grey rectangle. This can occur with jpegs used in components. Try saving the jpeg in non-progressive mode or in a different format before importing.

Problem – png is distorted. If this occurs, try saving the image as an interlaced png before importing.

Vector Graphics

Vector Graphics are imported using File > Import Vector Graphic or the Vector Graphic Import tool. They fall into three categories: EPS, SVG and Clip art.

EPS files

Encapsulated Postscript (EPS) files can be difficult to import as vector shapes into KoolMoves. It should be at least EPS version 3.0, and it should contain vector shapes, not just bitmaps.

Import and Export SVG

Scalable Vector Graphics (SVG) is only partially supported at this time. The current implementation is primarily focused on importing and exporting outlines.

Importing Clip art (DXF, EMF, and WMF)

WMF, AutoCAD DXF, EPS, and EMF files are converted into KoolMoves shapes with points when they are imported. There are several classes of clip art including bitmap and vector. KoolMoves only supports vector clip art in which each shape is defined by boundary points and is usually filled with a uniform color. Color fill information may not import with DXF files.

Vector clip art often has a high density of shape points so you are given the option when you import of reducing the number of points through curve fitting, automatically performed by KoolMoves. If detail is lost or there are wild shapes, increase the number of points on importing (i.e., decrease the amount of point reduction).

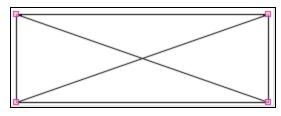
Not all clip art objects are imported. For example, text objects are not imported at this time.

You can get free vector clip art from www.openclipart.org, www.arttoday.com and www.clipartdownload.com. You can purchase single clip art images from www.eyewire.com/clip art/. Corel publishes several large clip art collections. Or, you can draw with a number of vector graphics applications and export in a format compatible with KoolMoves.

To edit clip art in order to impart motion for example, lasso the part of the clip art to be edited with the point selection tool. The selected points can be translated using the arrow keys or dragged using the mouse, rotated, slanted, squished, scaled, or put into perspective. See Reshaping in Chapter 6. Typically, you reshape or recolor the clip art in the current frame, add another frame, make changes in that frame, add another frame, and so on to create a movie. KoolMoves morphs the shapes between frames to create smooth animation. The speed of the motion is set by the overall speed of the movie and the number of tweens between frames.

SWF Flash Movie

A FlashTM movie (swf) can be imported as an object. To Import a SWF Object either select File > Import Flash Movie as Object or use the import button located with the drawing tools (the last choice in the submenu "drawer"). The SWF Object can be located anywhere inside a KoolMove's movie and manipulated like any other symbol. Tell Target actions can issue stop, play and stop sound commands to the imported movie.



The movie has its own timeline and cannot be viewed or edited in the KoolMoves editing environment. It will display as a rectangle to show the size and position of your imported SWF and you won t be able to see what the complete movie looks like until it is previewed in a web browser or stand-alone Flash

player. You may scale, squish, rotate, move, apply an effect, and flip a SWF Object. Wherever the SWF placeholder rectangle is moved is where the SWF Object will play. The imported SWF will retain all of its sounds and actions of the SWF that you imported.

The imported swf must be in the same directory as the swf referencing it. The imported swf can also be imported as an editable movie; however, not all of the elements are currently imported.

Flash Live Video

To import AVI, MPEG, QuickTime (MOV) and WMV, first convert the video to Flash LiveVideo (FLV) format. You can find a free encoder available on the internet (search on "free flv encoder"). At this point you can import the FLV file with the FLV import tool or through File > Import FLV.

Animated GIFs (Work Around)

KoolMoves supports import of static GIFs with and without transparency. It does not support import of animated GIFs at this time.

For transparent images exported from PhotoShop, use 255 color PNG or GIF (with transparent color, NOT transparent layer!).

Use an application found at www.segon.com to convert your animated GIF into a SWF file. Then use import swf as an object to bring the converted gif into your KoolMoves project.

KoolMoves does not directly support output of animated GIFs at this time. To convert a KoolMoves created swf to an animated gif, you might try Magic Swf2Gif at itinysoft.com.

There are a number of other specialized products for creating animated GIFs. Ulead makes a nice product called Gif Animator. There are also free products. See http://msdownload.microsoft.com/msdownload/gifanimator/gifsetup.exe, a simple free GIF animator from Microsoft, and from the makers of Game Maker, a very easy to use game creation and development environment, http://www.cs.uu.nl/~markov/kids/gmaker/index.html.

Capture the KoolMoves animation as a series of screen images using File > Export Movie > Capture Movie Frame and import the image files into your favorite gif creation tool. With some of the free GIF animators you may need to convert the captured images into GIF format using a graphic editor.

KoolMoves User Manual

Chapter 10 - Text

Text as displayed in Flash can be split into two groups: Static and Dynamic. Static Text is created and formatted at authoring time and, except for effects that can be applied to the text box, does not change throughout the movie. Dynamic Text is stored in ActionScript TextField class objects, and can be created and formatted dynamically; however, the KoolMoves Properties Data View allows you to access many of these properties in your project without requiring any knowledge of ActionScript.

Mary had a little lamb

Static and Dynamic text objects have the same bounding box markers, but are displayed differently. Static text is displayed as it will appear in the export movie, while with dynamic text only the physical dimensions and name of the object are displayed at authoring time on the Canvas.

The Text tool on the Tools Toolbar allows you to place text on the Canvas. You have the choice of placing Static text or Dynamic text. The default choice is static. Static text is heavily antialiased in the Flash player and is blurry at small type size. This problem cannot be controlled by KoolMoves. FFF Compact is a good font for small type. Dynamic text is lightly anti-aliased and is rendered exactly like text in HTML pages.

Static Text

Static text is entered through an interactive window that allows you to customize the text: font, font style, size, and letter spacing: type text in the large edit box and make choices. You can edit selected text by double-clicking on the text or right-clicking and selecting Properties. Scale, rotate, flip, and squish transformations will affect text. You cannot manipulate

Properties. Scale, rotate, flip, and squish transformations will affect text. You cannot manipulate the points associated with a text object. If you desire to do that, convert the text to shapes with points (in the Transforms menu). Static text can not change during movie execution.

Certain format aspects can only be set through the Text and Font dialog, while others are handled through the Properties data view.

Text and Font					×
Tahoma	▼ 15 px ▼	B / S	cript Western	▼ Letter spar	cing 0 🕄
Mary had a litt	tle lamb				<u> </u>
					_
				ОК	Cancel

Text and Font Window Properties

- Font Only a TrueType non-symbol font can be selected for text.
- Size Enter an integer value.
- Size unit Choose between Pixel or Point sizes.
- Font Formatting Turn Bold or Italics on or off for entire text box contents.
- Script This parameter can affect how the font prints out.
- Text Letter Spacing Powerful yet simple way to add elegance to text.

Properties Data View

Look

Type

Opens the Text and Font dialog window.

Color

Set the font color.

Alignment

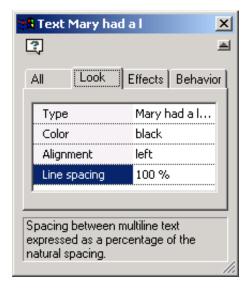
Multi-line text can be left, right, center, or full justified. In the case of full justification, the last line of text is left aligned.

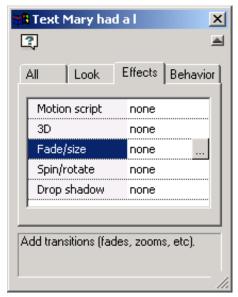
Line Spacing

Set the line spacing as a percentage of the natural spacing for that particular font type and size.

Effects

See Chapter 5 – Data Views, Properties Data View, Effects.





Behavior

See Chapter 5 – Data Views, Properties Data View, Behavior – Shapes.

1	Text Mary had	al	×	
2	ļ		a	
A	II Look	Effects	Behavior	
	Is a button	no		
ï	Is a mask	no		
ľ	Masking depth			
	Morphing hints	none		
Provides hints to the export engine to produce correct motion.				

Creating Your Own Text Effect

It is easy to create your own text effects. The basic principle is to create the stages of the text effect in a series of key frames. This example illustrates a series of letters which write on the screen starting very large and transparent.

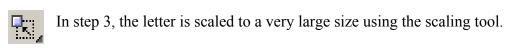
In step 1, the Static Text tool is clicked and a single letter is entered. The size of the letter does not matter because we are going to scale it. The letter is shown on the right.





 T_{\downarrow}

In step 2, the letter is made transparent using the paint bucket tool.





In step 4, the current key frame is copied and added to the end of the movie.



In step 5 in the last key frame, the letter is scaled to the final size using the scaling tool and the transparency is removed using the paint bucket tool.

The current key frame is copied to the end of the movie and the process is repeated for the next letter in this case "o". And so on for each letter. Some fiddling of the sizes of each letter will be necessary to produce a polished look.

When the movie is played, the effect is that each letter appears in sequence. The text effects you can create are endless. See Text Effect Templates in Appendix E for a complete listing of similar text effects provided with KoolMoves.

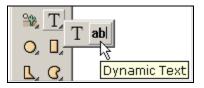
Transforms > Text to Characters

This menu command breaks apart a text string into a series of text strings for each character.

Transforms > Text to Shapes

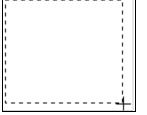
This menu command converts a text string into a shape with points. You would probably only want to do this if you need to apply certain transformations to the text such as slant or perspective, to manipulate the individual points of characters comprising the text, or to use a bitmap or color gradient fill. Text in the form of a text object is very efficient because the characters can be shared with other text strings with the same font.

Dynamic Text



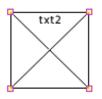
Dynamic text allows user input or can be changed within the movie. It is the second choice in the text tool "drawer".

The dynamic text field is created by



clicking on one corner, dragging the mouse and then releasing to define the opposing corner. There are a number of properties unique to dynamic text for specifying the look of the dynamic text.

Unlike the Static Text tool, the act of creating the dynamic text box does not open the and interface. Because the dynamic text box can be initialized dynamically, initial text is not required and for many applications is not desired. The static and dynamic text boxes share many features in common – only the unique dynamic text properties will be addressed below.



Unlike the Static Text box, no text is displayed in the editing environment. In the editing environment the text field area is defined by a box with crossed lines.

Look Tab

	Dynamic Text t:	4
1	All Look E	Effects Behavior
	Туре	
	Embed character	no
	Color	black
	Has a border	yes
	Is read only	по
	Text selectable	yes
	Alignment	left
		yes
	Leading	
		yes
	Has scroll bar	
	Scroll bar details	
	Has html	no
	Is a password	
ľ		
lr	nitial text, type face,	style, and size.

The Color and Alignment properties are identical for static and dynamic text boxes, and the Type property is almost identical. The interface for setting the initial message font, style and font size is called the Dynamic Text Type window.

Dynamic Text Type	×
Tahoma 💌 16 pt B 🖌 Script Western 💌	2
	<u> </u>
1	▼
OK	Cancel

Embed character

Embedding fonts gives the text a consistent appearance regardless of the PC the movie runs on. Embedded fonts are also antialiased. However, the default value of no allows for greater robustness: antialiased fonts below 10 points are usually unreadable, embedding a font adds 20 to 30KB to a movie, and if the font can't be found, no text will print in the box. With font embedding disabled (the default), something will always print, even if its in the PC's default font.

Has a border

Adds an outline to the text box. Set the border color dynamically with the textField.borderColor property. If a border is set, the background of the text field is white with a black border. To have a different background color, you will need to turn border off and create a shape behind the dynamic text object with the color and border of your choice. Dynamically, backgrounds and background colors are controlled with the textField.background and textField.backgroundColor properties.

Is read only

When set to "no", the text box can be edited and / or used for user input.

Text selectable

Determines if the text box contents can be selected and copied to the clipboard.

Is multi-line / Is a password

"Yes" enables multiple-line user input, however, the Password field requires the multi-line capability set to "no". Is a password = "yes" replaces each character in the field with an asterisk ("*").

Leading

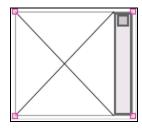
Where static text used a percentage of the normal line spacing, dynamic text has a range (0 to 10 in increments of 2) of points for adjusting line spacing. Default value is 2.

Word wraps

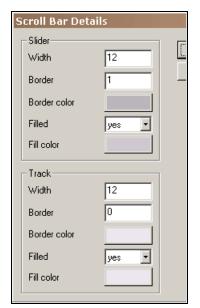
Same as in word processing – automatic line breaks are inserted when the text line length exceeds the edge of the text box.

Has scroll bar / Scroll bar details

The two properties enables the display of a vertical scrollbar in the dynamic text box, and open its parameters interface, respectively. If scroll bar is set, a vertical scroll bar is added on the right inside of the text field. The details of the look of that scroll bar is set in scroll bar properties. The first group box defines the properties of the slider and the second group box defines the properties of the track.



This is a scroll bar with customized settings. The border to the text field has been turned off and the borders to the slider and track have been set to 2. A no border text field is displayed with a faint border in the editing environment.



Has html

If Has Html is set the text can contain a subset of HTML formatting tags: , <I>, <U>, , , <P>,
, <A>, , , <TAB> and <TEXTFORMAT>.

Effects Tab

Only one effect for dynamic text at this time.

Filter Effects

The filter Effect is described in Chapter 11 – Movie Clips.



Behavior Tab

Only one behavior for dynamic text at this time.

Variable name

The Variable Name is editable and allows for easy dynamic changes to the text.

The text can be changed or retrieved while the movie plays using Set Dynamic Text, Load Dynamic Text, the Variable Name and Send Form Data actions. The use of Send Form Data requires knowledge of GET and POST data sending. http://www.pppmail.com/flash4cgi.htm offers some information on this topic.

Dynamic Text txt1
?
All Look Effects Behavior
Variable name used in Flash 6/7 for an assignment statement like txt1 var = "hello"; (with backward compatibility

If you use & in the text, the Flash player interprets it as the start of a new variable. Replace the & in the text with %26 (Unicode mapping). For more details, see http://www.adobe.com/cfusion/knowledgebase/index.cfm?id=tn_14143. KoolMoves User Manual

Chapter 11 - Movie Clips

A Movie Clip is a movie within the main movie with its own canvas and timeline. Movie clips and the main movie have many commands and features in common. For example, a movie clip can be previewed with the internal player the same way a movie is previewed.

In object oriented programming, movie clips are used to organize visual elements and sounds, while the main movie is used to organize movie clips (among other objects). A clip within another clip is called a nested or child clip; a clip that contains another clip is the host or parent clip. The display properties of movie clips can be dynamically changed via ActionScript by the host or root timeline(s). Likewise, being movies in their own right, movie clips can contain frame actions and execute ActionScript within their own timeline, independent of or coordinated with actions on the main timeline or in other clips.

Movie clips can be copied and pasted like shapes, or manually added to the Symbol library.

Clips can be used to organize code, contain sound files, group shapes, emulate buttons (but with more capabilities), add behavior to objects, and act like Layers in a Cel Animation. All these capabilities make Movie Clips the building blocks for advanced animations. Almost all of these capabilities require a knowledge of ActionScript.

Creating Movie Clips

Click on the triangle or click and hold to display the two ways to create a movie clip (these commands are also available under the Shapes menu):

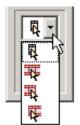


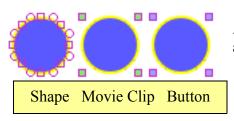
press the new movie clip button to create an empty movie clip, or



press the convert shapes to movie clip button to move the selected shape(s) or objects into a new movie clip.

In converting shapes to a movie clip, the selection scope -- this frame only, all frames, etc. -- determines the composition of the movie clip. If you select a number of shapes in the current key frame and select all frames for the selection scope, all those shapes in whatever frames they appear will be converted into a movie clip.





A selected movie clip symbol has a similar bounding box to a button except for the shading color in the corners.

Movie Clip Timeline

Click on the Frames button at the top of the properties dialog to reveal the visual elements and frame actions of the movie clip. Within its own timeline, the movie clip has an environment analogous to that of the main movie and has over 90% of the same capabilities.

👷 🛛 Mo	ovie Clip r	×	
3	Symbol	Frames	a
All	Look	Effect	s Behavior

K	oolMov	ves - Uni	titled											
<u>F</u> ile	Edit	Views	Shapes	Points	Effects	Transforms	Frames	Movie	Play	Options	<u>H</u> elp			
Mov	/ie Clip	mc1		宿 Main r	movie	00		<i>@</i>	÷ 🖇	1×	- 6	1 😢		
Tool	-													
	R .													
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R.	<u></u>													
	•													
										-¦-				
Ке	y fram	e 1	0.0 se	ec 🔄	4	Þ		÷		12 twee	ens	🕘 Sc	ene 1	6
Моц	use: (4	3, -92)												11.

Within a button state or movie clip, use Options > View Parent Movie to see a semi-transparent overlay of the parent object's (_root in the example above) contents. To return to the _root level of the movie, click on the Main movie button.

Movie Clip Properties Data View

In Chapter 5, Section 1), we covered the Properties Data View and the properties of a shape. Not surprisingly, movie clips have a slightly different set of properties from simple shapes, but the GUI has them organized in much the same way. We will be looking at the Look, Effects and Behavior Tabs for a movie clip.

Movie Clip Look

This tab is empty – the appearance of the movie clip is tied entirely to its contents, effects and runtime behavior.

Movie Clip Effects

Movie Clips have in common with shapes the motion script, fade/size, spin/rotate effects. And while movie clips may not have 3D or Drop Shadow effects, these are quite easily duplicated, and surpassed, with the Filters and Blending Modes effects.

🗖 Movie Clip mc2 🛛 🛛 🛛	
🕄 Symbol Frames 🔺	4
All Look Effects Behavior	
Motion script none	
Fade/size none	
Spin/rotate none	
Filters none	
Blend mode normal	

Filters

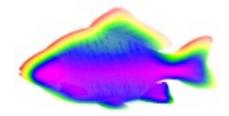
Flash 8 filters allow for the quick creation of compelling designs, and unlike imaging applications (like GIMP or Photoshop) that have traditionally been used to apply filter effects, in Flash the filtering can actually be animated. Because the filters are natively supported and rendered in real time by Flash Player 8, there is an associated processing cost; if your movie's performance is suffering, consider preprocessing static images before loading into your movie, and rethinking the parameters on your animated filter effects.

Filter effects can be applied to movie clip, button and dynamic text objects. Other object types, shapes, and imported images can be placed in a movie clip and filtered indirectly.

Available filters include:

- Adjust Color: Modify an object's Hue, Saturation, Brightness and Contrast.
- Bevel: Commonly used with buttons and user interfaces, beveling gives a sense of depth to an object.
- Blur: Define X and Y pixel offsets to smudge an object.
- Drop Shadow: Applies a shadow, and more if you wish.
- Glow: Creates a glowing outline around an object.
- Gradient Bevel: Same shape and appearance as Bevel, except a gradient is used.
- Gradient Glow: The glowing outline has a gradient color scheme.

The brief descriptions above don't do justice to this powerful KoolMoves feature. For details on how to use this feature, and some sample images, please see the KoolMoves Filters User Guide.



Blend Mode Effect

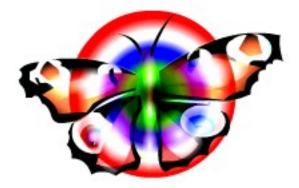
Blend modes involve combining the colors of one image (the base or destination image) with the colors of another image (the blend or source image) to produce the final image on the screen. Each pixel value in an image is processed with the corresponding pixel value of the other image to produce a pixel value for that same position in the result, but actual math is performed on the component RGB values.

Blend modes can only be applied to movie clips or buttons, either through ActionScript or through the Blend Mode window (accessed via the Effects menu or the Properties Data View).

Available blend modes include:

- Normal: No blending at all, actually.
- Layer: A "composition" layer used to contain 1) a masking gradient and 2) an Alpha or Erase layer. By itself the layer mode does nothing, but used as directed it's gradient provides a feathering mask effect applied to the destination image.
- Add: Source and Destination pixel color values are added tends to lighten/brighten.
- Subtract: Source pixel color value is subtracted from destination pixel.
- Multiply: The two pixels are multiplied resultant pixel is as dark or darker than original pixels.
- Screen: Opposite of the multiply mode.
- Difference: The darker of the two pixels is subtracted from the lighter.
- Darken: Combines the darker pixels of the source image with the destination image.
- Lighten: Opposite of the darken mode.
- Overlay: If the destination RGB pixel is less than 127, then multiply mode is applied, else screen mode is applied. In plain English, the source highlights and shadows are overlaid on the destination image.
- Hardlight: Same as Overlay, except source pixel is used
- Invert: The source image acts as a mask overlapped destination image area is inverted.
- Alpha: Transparent areas of the Alpha mask block destination image.
- Erase: Opaque areas of the Erase mask block the destination image.

As with the filters, the brief descriptions above don't do justice to this powerful KoolMoves feature. For details on how to use this feature, and some sample images, please see the KoolMoves Blend Mode User Guide.



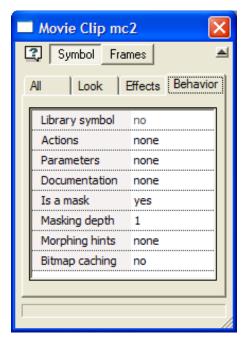
Movie Clip Behavior

Movie clips are the workhorse object of the Flash environment, and the range and scope of the Behavior properties reflect their flexibility in handling a variety of roles and actions.

However, some of the behavior properties like library symbol and masking have been covered in other sections, so we will focus on the properties unique to movie clips.

Movie Clip Actions

Click on the Actions field to open the ActionScript editor and define onClipEvents. These pieces of code travel with the movie clip they are attached to, and are not visible from the main timeline data views. If your movie is complicated and you can't recall where some code is located (which can happen when you use this field), use the Movie Overview data view to track it down.



Movie Clip Parameters

In the Properties popup, you can create and assign values for parameters to the movie clip. These parameter assignments are exported in the swf to the top of the first frame of the movie clip. Parameters offer the opportunity for reusable movie clips that can be customized by the end user.

box.

Click on the Add Parameter button to display the available parameter types. Selecting a type opens a dialog

Color Parameter		×
Name of parameter	aBC	OK
Description of parameter (optional)	Answer box color	Cancel

+, 😭 🗇 ↑ ↓ 🗛 Click on value to edit: X_Coordinates [3,5,7,9] BW true aBC white 0K Cancel

Movie Clip Parameters

Click on a parameter to change the value.



Click on Edit to reopen the dialog box for the selected parameter.



Deletes selected parameter.



1

Shifts selected parameter up or down in list.

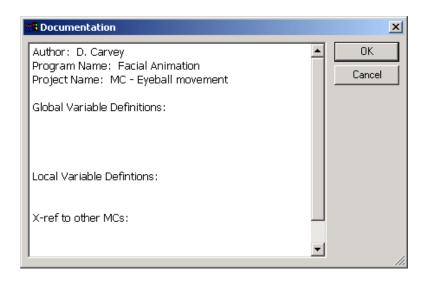
×



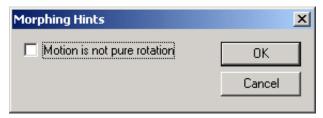
Click on Lock to prevent changes to the parameters (disables edit, delete, move up and down buttons).

Movie Clip Documentation

A very simple text editing function allows you to add documentation/comments to your movie clip, enhancing its portability and maintenance. Use Ctrl-M to insert line feeds.



Morphing Hints



Activate this parameter if the movie clip is going to be moving in a fashion other than pure rotation.

Bitmap Caching

A major performance limiting factor has been Flash's requirement to update vector graphic images with each screen refresh, even if nothing has changed. In movies with many objects on the screen, this brought down the practical frames per second performance capabilities. Bitmap caching is intended to reduce the load on the renderer by storing copies of selected movie clips in the Flash Player.

Bitmap caching has been implemented as a movie clip property. This property can be accessed through the Properties Data View.

Bitmap caching is also accessible in ActionScript through the mc.cacheAsBitmap property (true = caching turned on, false = caching turned off). You can also directly access this property to determine a movie clip's bitmap caching status. Bitmap caching also works with nested movie clips.

The Flash Player will convert the visual contents of movie clips with bitmap caching on into bitmaps and store them in runtime Flash Player memory. These copies are used for screen

refreshes instead of rendering the images from scratch, until the contents of the movie clip change, at which time a new bitmap copy is rendered and stored.

So as long as the movie clip doesn't change, caching can seriously reduce the load on the renderer, especially if the movie clip happens to contain complex vector images (lots of lines, curves, gradient fills, etc.). However, what constitutes a change? If the movie clip moves up or down or sideways – no problem. On the other hand, rotations, scaling, flipping, animated filters, basically any effect, will require the movie clip to be rendered. For you ActionScripters, these are the properties the cause the bitmap to be regenerated:

- _xscale
- _yscale
- _rotation
- _alpha
- _width
- _height
- filters
- blendMode
- opaqueBackground
- transform

It follows that, since two steps are involved (rendering and storing) in caching as opposed to only one step without caching, and one of the steps is tying up memory (you're storing both the vector data and the bitmap), that turning bitmap caching on unnecessarily for a movie clip that needs to be rendered frequently can actually hurt movie performance. And it does.

There are a few limitations, quantitative, qualitative, and performance inherent in bitmap caching:

- The largest bitmaps that can be stored are 2,880 by 2,880 pixels,
- Bitmaps do not store vector images as efficiently as vector data,
- Bitmap caching is turned on when a filter is applied to a movie clip, and
- Bitmap caching is turned off when content (external Flash movie or image) is dynamically loaded via ActionScript.

KoolMoves User Manual

Chapter 12 – Transforms & Effects

Toolbox Effects are covered in Chapter 5, Data Views > Properties Data View > Effects .

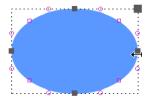
Toolbox Transforms

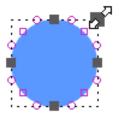
Click and hold to open the Transform tool drawer.

With the exception of the flip, squish, and perspective tools, these tools were covered in Chapter 6 in the

Reshaping entry. These tools operate in the same or similar fashion, so we will just provide a brief description of the tools here.

Scale/Resize. Click and drag a handle to alter the x/y axis scale. Click and drag the handle in the top right corner for proportional changes. Ctrl+Alt+S.





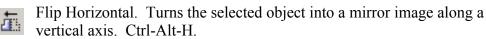
27SJ

<u>К</u>.С

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Rotate. Click and drag anywhere on the stage to rotate the selected shape around the axis point. Click and drag the axis point to move it before rotating to create off center rotations. Ctrl+Alt+R.





Flip Vertical. Turns the selected object into a mirror image along a horizontal axis. Ctrl-Alt-V.



Slant. Click and drag a handle to distort the selected object in a diagonal fashion. Ctrl+Alt+T.



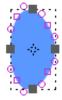


Squish. Click and drag a handle to selected object in an oblong fashion.



compress or stretch the Ctrl+Alt+Q.

Perspective. Click and drag a handle to change the object's shape consistent with the effects of distance on different points on the object. Ctrl+Alt+P.



Transforms Menu (other commands)

Following are the Transforms Menu commands not already covered in Toolbox Transforms.

Break Apart Text

The Break Apart Text commands allow you to take static text and convert it into either individual characters or shapes defined with points. The first step is to select your static text object,



then select the appropriate menu command.

Break into Text Characters

Test Message

Each letter in the test message has been broken out into its own static text object. This means that each character can be selected and modified individually, with its own effects, parameter settings and position.

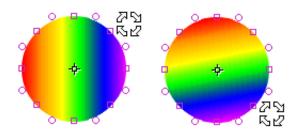
Convert to a Shape with Points



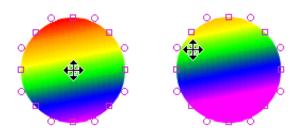
Oddly enough, all the letters above are considered one shape. For example, clicking on one of the letters above selects the entire message. Use the Select Point tool to edit the placement of the individual points.

Rotate/Shift Gradient Fill

This command allows you to rotate and/or shift the gradient fill of a shape.



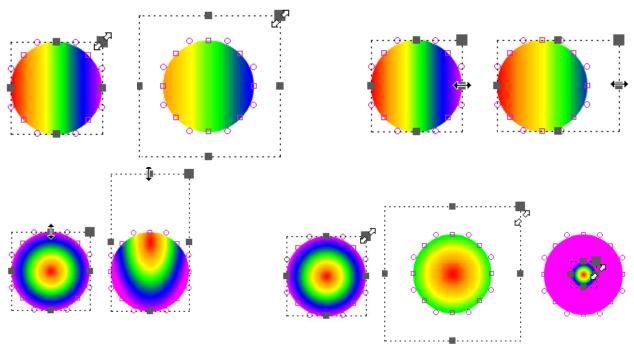
A reference point is placed at the center of the selected shape and the mouse pointer is changed to four arrows arranged in a circle. Click and drag the mouse around the center to rotate the gradient fill.



Placing the mouse pointer over the center will change the mouse pointer again, this time into four arrow pointing out from the center. Click and drag the center to shift the gradient fill.

Scale Gradient Fill

This command resizes the gradient fill without affecting the shape's size. Click and drag the handles as with the normal scale tool.



Rotate Image Fill

Analogous to Rotate Gradient Fill, but applied to shapes with image fills.

Shift Image Fill

Analogous to Shift Gradient Fill, but applied to shapes with image fills.

Scale Image Fill

Analogous to Scale Gradient Fill, but applied to shapes with image fills.

Numeric... (Ctrl+Alt+N)

Use the Numeric Transform tool the modify a selected objects size, initial rotation and position. Click on the Scale, Rotate or Position boxes to activate those fields – only one set of fields is active at a time. Click on the Apply button to effect changes to the selected object – only one set of changes (Scale/Rotate/Position) can be applied at a time.

- Scale Units Pixels or Percent.
- Scale Anchor Points Center, Upper Left, Upper Right, Lower Left, Lower Right, Top, Bottom, Left, Right.
- Check the Constrain proportions box to maintain original width to height ratios.
- Angle field only accepts integers.
- The X and Y position fields are used to set a coordinate point on the selected object relative to the stage.
- Position coordinate point choices are Upper Left, Upper Right, Lower Left, Lower Right and Center

Set the Anchor field prior to changing the X and Y fields.

Numeric	Transform 🔀
2	
Positio	n
×	35.0
Y	52.0
At	upper left 💌
🗖 Absolu	ite all frames
- Scale	
Unit	pixels 💌
Anchor	center 💌
Width	200.0
Height	124.0
🔽 Constr	ain proportions
- Rotate	,
Angle	•
	Apply

Center (Ctrl+Alt+C)

This command moves the selected object to the center of the stage.

Rotate Left 90°

This command rotates the selected object 90° to the left

Rotate Right 90°

This command rotates the selected object 90° to the right

Scale/Translate Movie...

Use this window to

- Scale all objects within a movie using the drop down list of ratios (30% to 300%, in increments of 10), and
- Shift all object within the movie the designated number of pixels.

Scale/Translate Selected Shapes...

Same as Scale/Translate Movie..., except applied only to the selected shapes.

Translate X, pixels	0	Cancel
Translate Y, pixels		
	1	
	,	

XI

0K

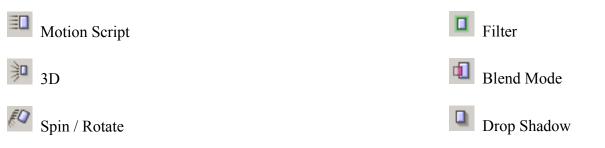
Scale/Translate Movie

Scale percentage 1 🎹 🔻

Toolbox Effects

Click and hold to open the Effects tool drawer. These tools were covered in Chapter 5 in Data Views >

Properties Data View > Effects, so we will just list the tools with their icons.



Creating Your Own Transition

In Chapter 5 while discussing the Effects tab, several built-in transition effects were discussed (recapped below). It is easy to create your own transitions using the tools discussed in this and preceding chapters. The basic principle is to create the stages of the transition in a series of key frames. This example illustrates an image that comes from the left into the movie frame as a small transparent image and becomes more opaque and larger as the image moves to the center of the movie frame.



In step 1, an image is imported using File > Import Graphic Image. To start the transition, the image is dragged to the left of the movie frame.



In step 2, the image is made small and transparent using the scale and paint bucket tools.



In step 3, the current key frame is copied and added to the end of the movie.

In step 4, the image is dragged to the center of the movie frame in the last key frame.



Finally in the last key frame, the paint bucket and scale tools remove the transparency and return the image to its original size.

When the movie is played, the image slides in from the left from a transparent, small state. The transitions you can create are endless.

KoolMoves has 6 built-in transitions -- initial fade in, final fade out, initial grow from nothing, and final shrink to nothing, initial zoom in and final zoom out. They take effect at the beginning or end of the shape's life in the movie depending on whether the transition is called initial or called final. These transitions can be set in the Properties popup for the selected shape or through the Effects menu bar. Transitions occur over a set number of key frames. When a transition is added to a shape, if there aren't enough frames for the transition to occur, frames will be added if the "Add frames if needed" check box is checked. Transitions can be combined, although the fade transitions are not a good combination with drop shadow.

Part IV – Advanced/Additional Features

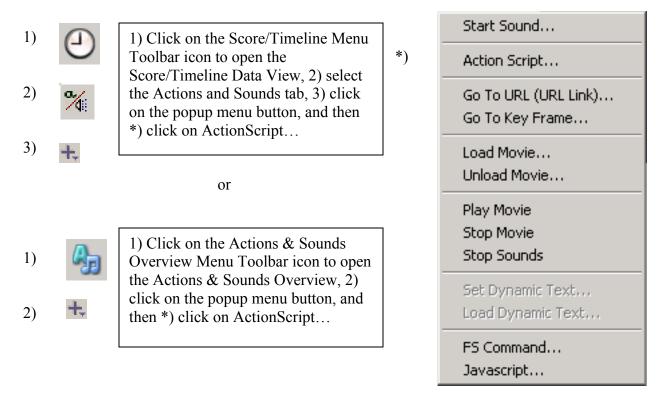
Chapter 13 – Action Scripting Chapter 14 – KoolMoves Components Chapter 15 – Symbol & Link Library KoolMoves User Manual

Chapter 13 - Action Scripting

The Action Script Editor (ASE) is KoolMoves' ActionScript programming interface.

Opening the Action Script Editor (ASE) for the first time

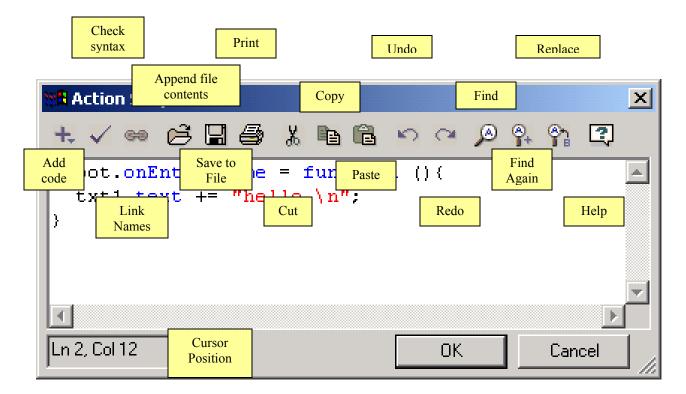
How the ASE is accessed will depend on where the ActionScript is being placed. For example, to place code on a frame in a timeline click on "ActionScript..." in the popup menu for either the Actions and Sounds Data View or the Actions and Sounds Overview window.





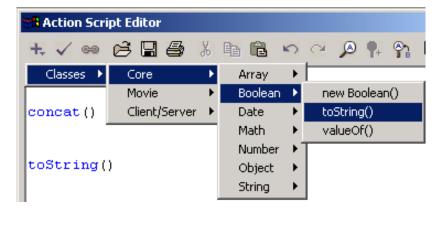
To place an event handler (on(*event*) {})on a button, select a button and in the Properties window click on Actions, click on the plus button and then click on ActionScript in the popup menu.

To place an event handler (onClipEvent(event) {}) on a movie clip, select a movie clip and in the Properties window click on Actions, click on the plus button and then click on ActionScript in the popup menu.

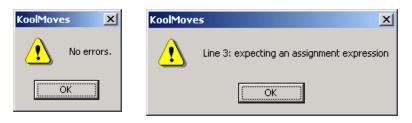


The Action Script Editor (ASE)

Click on the plus button to open a popup menu of available reserved ActionScript words and phrases that can be added to the current cursor position.



Clicking the checkmark button will return one of two messages after checking the code for syntax errors.



The link button opens the Link Names window. In the Movie Clips tab are displayed available symbol library movie clip links created in the main gui with the Symbol Library interface. These links work with the mc.attachMovie() action script command.

Link Names		×
Movie Clips Sounds Ima	ages	
Symbol Description Symbol 1	Link Name blueBall	Link Name

Link Names		×
Movie Clips Sounds Images		
Symbol Description	Link Name	Link Name
		Add
		Delete
1		

Under the Sounds tab, links to external sound files can be created. These links can be used with the sound.attachSound() action script command and the KoolMoves Slideshow component.

Under the Images tab, links to external image files can be created. These links can be used with the loadBitmap() action script command and the KoolMoves Slideshow component.

ink Names			x
Movie Clips Sounds	Images		
Symbol Description		Link Name	Link Name
.\p1.jpg .\p2.jpg		photo1 photo2	Add
			Delete

Open a text file and paste the contents to the current cursor position. Default file extension is as.

Open			? ×
Look jn: 🗋	Nuclear Street	• 🗢 🔁	
📄 Flash Tuto	rials		
ITC_Webs	ite		
📄 km50beta			
🛛 🛄 sprite shee	ets		
🛛 🔂 Shortcut to	o ITC_Website		
🛛 🔂 Shortcut to	o km50beta		
J			
File <u>n</u> ame:			<u>O</u> pen
Files of type:	×.as	•	Cancel
	*.as		//
	.txt All Files (.*)		

		FI.
놀	-	1
		1

Save contents of coding area to a text file. Default file extension is as

Save As		<u>? ×</u>
Save jn: 🔁 katom	•	← 🗈 💣 🎟+
icons 🔁	🔁 А_КМ	肩 A_KM-Z TTI Projects
🗀 Manual Graphics	📄 A_KM-Chorus_Sounds	
🔁 Z decompiled help	📄 A_KM-Member_samples	
🔁 A_Gr- Ent_UG_3-5	📄 A_KM-Z Downloads	
🔁 A_Gr-ITC_Website	📄 A_KM-Z Experiments	
🔁 A_Gr-km50beta	📄 A_KM-Z Graphics	
		Þ
File <u>n</u> ame:		<u>S</u> ave
Save as type: 🔭 as		Cancel



Print contents of coding area.

- 🗂 🔁 Undo and Redo last action, respectively.

Find, Find Again, and Replace, respectively. Works with Windows TM clipboard.

Popup Help menu with Syntax Assistance and Context Sensitive Context Help... tips. Syntax Assistance...

Click on Cancel to exit without saving changes. Clicking OK will return KoolMoves to the main movie environment if there are no syntax errors; if there are errors, you have the option to correct the errors or save the ActionScript code in its current state.

KoolMove	es 🛛 🕅
?	Errors were found. Do you wish to keep the script editor open and fix the errors?
	Yes <u>N</u> o

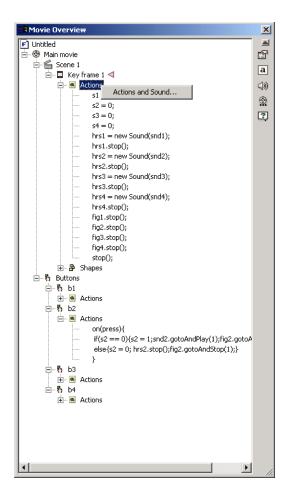
Editing ActionScript code

Editing event handlers placed directly on buttons or movie clips through the Properties window is the same process as initially creating them. However, editing code that has been placed on a frame differs from the initial creation process, as KoolMoves Allows for multiple independent pieces of code or commands to exist on the same frame. (However in the sample screenshots below, there is only one piece of code on the Frame). The code to be edited must be selected by right clicking on it and then navigating the popup window. There are three ways to find the code to edit: the Action and Sounds view in the Score window, the Actions and Sounds Overview window, and the Movie Overview window. The last two methods also displays code placed directly on buttons and movie clips.

Actions and Sounds	Movie Overview	×
Image: Constraint of the second s	 F Untitled → · · · · · · · · · · · · · · · · · · ·	19 🛞 🏵 🖬 🛃 🕨
Actions and Sounds Overview	i 5, b2 i 6, Actions i 5, b3 i 5, b4 i 6, Actions	//
Button events are indicated for only the first occurrence of the button		

Clicking on the "+" next to an Actions entry in the Movie Overview window will expand the entry to display the code.

In the Actions and Sound Overview or the Movie Overview, after clicking on the popup Actions and Sound..., click on the edit symbol in the Frame Actions and Sound window to edit the highlighted ActionScript object.



Frame	e Action	s and So	ound	×
Ac +,	Edit Action	nd] ↑	t	
Add Action	ion Scri	Delete Action		
			_	

Unimplemented ActionScript

ActionScript 2 (syntax and constructs) is unimplemented in its entirety.

Unimplemented Flash Player 4 through 6 commands:

```
%=
       (modulo assignment)
       (bitwise AND assignment)
&=
       (bitwise OR assignment)
| =
~
       (bitwise NOT)
       (bitwise left shift and assignment)
<<=
       (inequality)
<>
>>=
       (bitwise right shift and assignment)
       (bitwise unsigned right shift and assignment)
>>>=
```

switch - case conditional
* a workaround for switch/case is to rewrite the code with if/else if

do - while loop

nextScene(), prevScene()

super

* advanced command for use with the symbol library.

void

* not used very often. Void(x) returns 'undefined'.

```
throw, try, catch, finally * used for error handling.
```

trace

* used to output a result for debugging.

The following invalid operators have been deprecated since Flash Player 5 and have never been implemented in KoolMoves. If you are following an old ActionScript tutorial / language reference, please use the identified alternative operators.

Invalid	Valid	Invalid	Valid	Invalid	Valid
add	+	and	&	or	
gt	>	ne	!=	\diamond	!=
lt	<	not	!		

KoolMoves User Manual

Chapter 14 – KoolMoves Components

Created by a senior member of the KoolMoves community, the components in KoolMoves are portable object classes written in ActionScript. Components are used to expand the core capabilities of the Flash language, and can add a new dimension of interactivity when used in animations.

Technically subclasses of movie clips, they are handled in largely the same way For example, implementing the action associated with an Interface Component is analogous to setting up a clip event. Likewise, many movie clip properties and methods work with components.

The code for the components are stored in library files, and are automatically added to a movie if components are added through the Toolbox. If the components are being added dynamically through ActionScript coding, you will need to set the inclusion of the library files manually. Check the appropriate box(es) in Export Settings and the compiler will then know to add the appropriate components code. For example, when you movie has Flash 6 components, check the "Include Flash 6 action script interface components (list box, etc.)" box. There is a similar box for Flash 8 components.



Application Programming Interfaces (APIs)

APIs allow you to change a component's parameters interactively or to initialize the component if it has been attached to the movie via the symbol library. Many components have advanced features that can only be accessed through their API.

Some of the components were written in Flash 6, some were written in Flash 8, and some components have both Flash 6 and 8 versions. The components were coded using the latest available features at the time of their respective development. This means that:

- components with two versions will have separate APIs for each version,
- the Flash 6 and Flash 8 API descriptions have different formats,
- The Flash 8 contentPane, listBox and comboBox components can control vertical scrolling via a mouse wheel (while the mouse is over the component), and
- the Flash 8 components were designed with and are available in the Symbol Library.

There is no conflict between the Flash 6 and 8 versions – your movie can have components of both versions. However, there are distinct differences in how you work with the two versions dynamically. For example, while all components can be added to a movie dynamically with ActionScript, Flash 6 component APIs have the mc.createKComponent function, while Flash 8 components use the standard ActionScript mc.attachMovie function. Applicable examples can be found in \KoolMoves\Examples\Components\Flash N\, where N is the flash version.

Interface Components in the Toolbox

Click and hold on the Components tool to display the available components. Interface components allow movies to interact with users. KoolMoves has seven interface components, six of which can be added through the Toolbox. Example files included with the KoolMoves installation package (referenced earlier) introduce the minimal knowledge of ActionScript needed to use these components.



After selecting a component, the mouse pointer changes to a cross hair; click and drag to set the size and location of the component. Most components have a minimum size, while the check box defaults to 12 by 12 pixels (but the

check box can be resized with ActionScript coding).

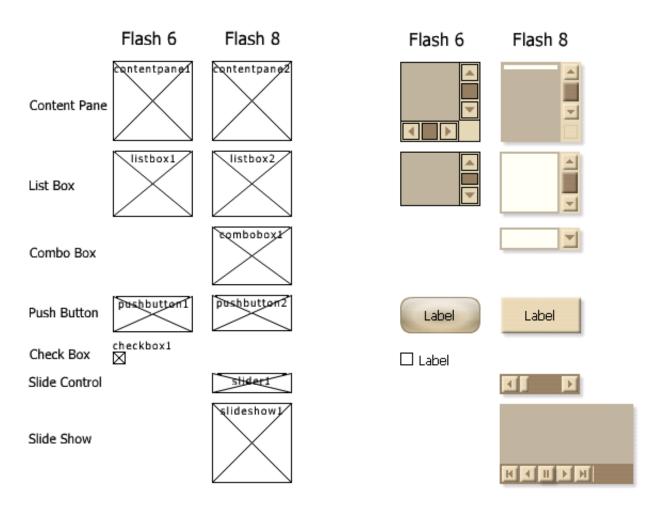
Other than resizing, moving or aligning actions, components added through the Toolbox can not be manipulated (i.e., no shape transforms or effects) at author time. The version, contents, parameters and actions associated with these components are defined in the Properties window at author time, and most of these can be changed dynamically with ActionScript through the Flash 6 APIs (Flash 8 components would need to be recreated from scratch).

Look	
Version	Flash 6 📉
Bevel settings	Flash 8
Label	Flash 6

Once a component has been sized and placed on the stage, open the Properties window and set its properties. Some of the components have two versions (Flash 6 and 8) The Flash 8 version of components have fewer appearance settings, but allow for beveled borders. Both versions of a component can be used in the

same movie.

Below are typical components as displayed on the stage and in a web browser.



In terms of the Properties data view, the biggest difference between components is in the content handling and Appearance options. The more common parameters and their values are covered below.

Color Dialogs

The Arrow, Background, Border, Button, Scroll Bar, Scroll Track, Selected Text, Selection Bar, Text Background, and Text Color fields all have the same color picker. There are three ways to select a color from the initial Color Option window: 1) Enter a value between 0 and 255 for the Red, Green and Blue values, 2) Enter a value between #000000 and #FFFFFF in the Hex Color box, or use the Color Picker to select a color from the palette.

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Color Option	×
0 🕂 Red (0 - 255)	OK
0 ÷ Green (0 - 255)	Cancel
0 🕂 Blue (0 - 255)	
#000000 HTML Hex Color	

Click on the RGB/HSL icon to open the RGB/Hue/Saturation/Lightness Slider window (a fourth way to select a color).

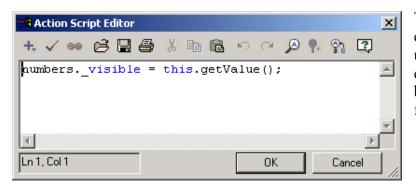
The color dialog is applied to control surfaces and does not allow for the use of patterns or images as fills, nor does it have a transparency setting. These settings can be dynamically changed with ActionScript for Flash 6 components.

RGB and HS	L Sliders 🔀
RGB	,
Red	
Green	
Blue	
HSL	
Hue	
Saturation	
Lightness	

Behavior Actions & Dynamic Components

Most of the interface components have a default event (on change, on mouse click or on mouse drag) that can be used to execute ActionScript code. In the Properties window, after selecting the event under Behavior, click on the ellipsis ("…") to open the ActionScript Editor.





The code embedded in a component is not limited to updating the movie as to the changes made to the component, but can also be used to control the flow of the movie.

Code is present on a component when the event field has changed from "none" to "action script".

All	Look	Effects	Behavior
On	change	action	n script

Note: When coding behavior for components through the Properties window, the event (e.g., onChange) has already been defined and a function block does not need to be specified. Also note that initializing a property not present in the Properties window is not complicated. In \KoolMoves\Examples\Components\Flash 6\Other examples\TellingTime.fun, checkbox1 (created at author time) is dynamically initialized with:

checkbox1.setValue(true);

Note: As mentioned earlier, Flash 6 and 8 components differ internally. Because Flash 8 components were designed with the use of the Symbol Library, their behavior code is placed within the component. This means that when dealing w/ external objects, the component's behavior code has to allow for its relative starting position. Flash 6 component behavior code, on the other hand, is positioned relative to the parent movie clip. In the sample code below, both components update a text box on _root when their value changes.

Valid code for checkBox1 (Flash 6 component):

{Since the Flash 6 component behavior code is positioned relative to the parent movie clip, in this case _root, both the code and the text box are on the same level and relative path information is not required.}

Valid code for comboBox1 (Flash 8 component):

{The Flash 8 component behavior code's parent is the component and not the creating movie clip _root, so even though the absolute path for the two components are analogous and the getValue() function look the same, the internal workings differ. For this reason, "combobox1.getValue();" returns "undefined". Likewise, sending the value to "txt1.text" doesn't work for Flash 8 components as the behavior code ends up looking for txt1 on the component object.}

Label

Label Te	ext		×
Label	Label		
Font	Tahoma 💌]	
Size	12		
Style	Regular]	
Script	Western]	
	or some European charact es New Roman will displa		
		OK	Cancel

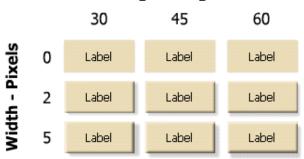
Labels are available for Push Buttons and Check Boxes. The fonts are limited to the fonts installed on your computer. Push button text is centered on the button while check box text is left justified to the right of the check box. Both are limited to one line.

Label settings can be changed dynamically with ActionScript for Flash 6 components.

Bevel Settings

Beveling is only available with Flash 8 components. The default values are an angle of 45 degrees and a width of 2 pixels. The range of valid values for angle and width are 0 to 60 degrees (in increments of 15 degrees) and 0 to 5 pixels, respectively. These settings can be changed with ActionScript.



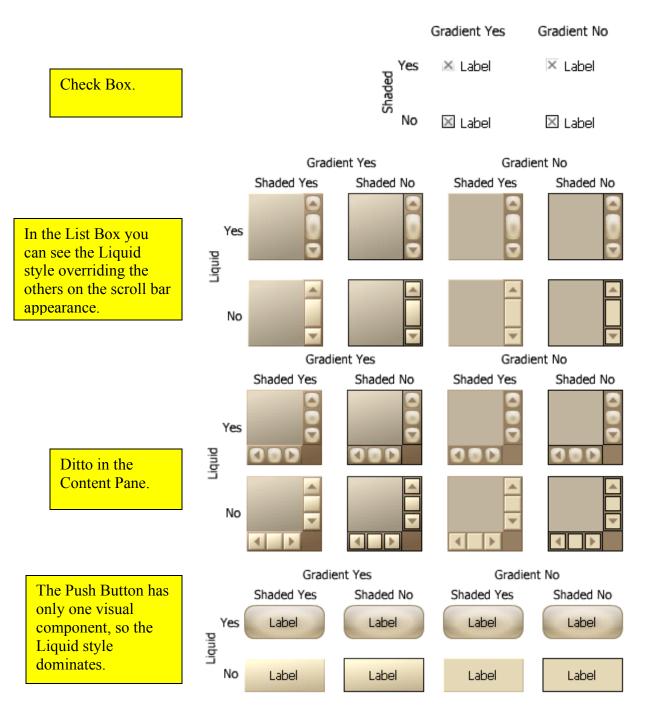


Angle - Degrees

Gradient, Liquid and Shaded (GLS) Styles

The Gradient, Liquid and Shaded Styles are only available with the Flash 6 components.

- Gradient style = Yes, the affected interface element is lightest at the top left corner and darkest at the bottom right corner.
- Shaded style = Yes, the component's border is replaced with a beveled edge.
- Liquid Style = Yes, a borderless, radial gradient is applied to the interface element (tends to overwhelm the Gradient and Shaded styles when applied to the same element).



Check Box

Flash 6. Check boxes are best suited for turning features on or off and dealing with variables that have only two values.



The check box component was largely covered when it was used as the example in the section on Behavior Actions & Dynamic Coding. In addition to the examples already covered, check boxes are also used in

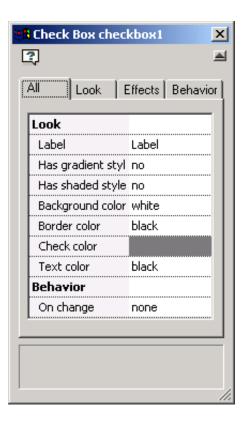
\KoolMoves\Examples\Components\Flash 6\Styling demo\KcStyling.fun and

Below is the programming interface for the check box component.

```
KCheckBox API (Flash 6):
```

```
MovieClip.CreateKCheckBox (instanceName, depth, initObject);
KCheckBox.destroy ();
KCheckBox.getEnabled ();
KCheckBox.getLabel ();
KCheckBox.getStyleProperty (styleProperty);
KCheckBox.getValue ();
KCheckBox.onChange = OnChangeFunction;
KCheckBox.setEnabled (enabled);
KCheckBox.setEnabled (label);
KCheckBox.setLabel (label);
KCheckBox.setLabelPlacement (placement); // "right" or "left"
KCheckBox.setSize (size);
KCheckBox.setStyle (KStyleFormat);
KCheckBox.setStyle (KStyleFormat);
KCheckBox.setStyleProperty (styleProperty, value);
KCheckBox.setValue (value);
```

For more details on dynamically setting Flash 6 component styles, please see KStyleFormat under Non-Interface Components.



Combo Box

Flash 8. The Combo box allows you to display items in a drop down list. Click on Items and then the ellipses to open the List Box Items dialog window.

List Box Items		×
+ 🖆 🖯 + 🕹		ОК
Name	Value	Cancel
I		

Click on the plus button to add items and their respective values to the list.

List Item	×
List item	OK OK
Value (optional)	Cancel

8 Combo Box con	nbobox1 🛛 🗙
2	a
All Look	Effects Behavior
Look	
Items	none
Bevel settings	default specs
	yes
Font	Tahoma
Arrow color	
Background color	
Button color	
Scroll bar color	
Scroll track color	
Selection bar cold	
Text color	black
Selected text col	white
Text background	
Behavior	
	none

item 1



Just click on the down arrow to toggle the display.

Once the list is displayed, you can select from the list by clicking on an entry, or by using the arrow keys. Combo boxes can be added dynamically, through the toolbox, and through the Symbol library. When used dynamically, comboBoxes can be changed into listBoxes that allow multiple selections. For further details, see the comboBox implementation notes at KoolMoves\Examples\Components\Flash 8\ComboBox\.

item 1	
item 1	N
item 2	
item 3	
item 4	-

comboBox API (Flash 8): **Functions** setItems(items,multiple,textFormat)

items - Array of items. Each item has to be an object containing label, value and selected (optional).

multiple - Boolean value indicating if multiple selections are allowed.

textFormat - textFormat object reference. Use this to set the font and font size. Font size freedom is limited because the height of a collapsed combo is always the same. If you specify a large value, you will see only part of the text. Example:

```
myTF = new TextFormat();
myTF.font = 'Arial';
myTF.size = 12;
items = new Array();
items.push({label:'line 1',value:1});
items.push({label:'line 2',value:2});
items.push({label:'line 3',value:3,selected:true});
items.push({label:'line 4',value:4});
items.push({label:'line 5',value:5});
myCombo.setItems(items,false,myTF);
```

setSelected(index / [indices]) - Set the selected item to the specified index / [indices]. If multiple selection is allowed, all other selected values are cleared.

getSelectedItems() - Returns an array of selected items.

getValues() - Function to be used when multiple selection is allowed. Returns an array of values of the selected items.

getValue() - Function to be used when multiple selection isn't allowed. Returns the value of the selected item.

Properties

autoHide – Boolean value. When set to true, a scrollbar is only used if necessary. This property can only be set when setting up the component or just before setting new items

embedFonts - Analogous to textfield.embedFonts.

Events

onChange(value) - Event occurring when another item is selected. If multiple selection is allowed, nothing is passed, otherwise the value of the selected item is passed, making it unnecessary to use the getValue function.

Content Pane

Flash 6 & 8. The Flash 6 version is also referred to as the scrollPane. ContentPanes are the most versatile and possibly the most useful Interface Component. The minimum size for a contentPane is 75 x 75 pixels. Scrollbars on the x and y axis are automatically available.

Look	
Multipage conten	
Content	
Version	Flash 6
Text/html setting	
Hide scrollbars	
Arrow color	
Background color	
Button color	
Scroll bar color	
Scroll track color	
Border color	black
Has gradient styl	по
Has liquid style	
Has shaded style	

Look	
Multipage conten	no
Content	none
Version	Flash 8
Bevel settings	default specs
Text/html setting	Arial 12
Hide scrollbars	
Arrow color	
Background color	
Button color	
Scroll bar color	
Scroll track color	
Border color	
Has gradient styl	
Has liquid style	
Has shaded style	

Unlike the comboBox and listBox, which display lists, contentPanes display information in other formats. A Flash 6 scrollPane can display a jpeg or flash (swf) file. A Flash 8 contentPane can display multiple items, treating each item as a separate page (Multipage content field equals yes). ContentPanes can display text strings, text files, graphic (gif, jpeg, png) files, flash files, bitmaps, and objects stored in the symbol library. Right clicking the component gives you the ability to zoom in on the content.

Conten	t File for Scroll Pane		×
File		ß	OK]
			Cancel

Clicking on the scrollPane Content field lets you identify the file to load.

Clicking on the contentPane Content field, before any content has been specified or when Multipage content field is no, opens the Content window. Use this dialog screen to specify a single page of content and its transition. Available transition styles are Cross Fade, Dissolve, Left to Right, and Right to Left.

Content		×
Content		2
C File	é	₿ ОК
C Link name	Y	Cancel
• Text or html	E	3
		-
•	Þ	
🗖 Html		
┌ 🔽 Apply Transition ————		
Transition Cross fade	▼	
Duration (sec) 3		

- The combination of very long texts and font embedding may result in rendering problems. This can be resolved by breaking up the text or by turning off font embedding.

- Setting a movie(clip) with dynamic textfields as content may result in problems rendering the dynamic text.

- When using html text with images inside it, it is important to specify the width and height of the images, otherwise the width and the height of the text can not be detected right.

Clicking on the contentPane Content field, before any content has been specified or when Multipage content field is no, opens the Multipage Content window. Click on the plus to add additional content, click on the sheet-hand to edit the highlighted content (opens the Content window shown above), click on the trashcan to delete and the arrows to change the content's relative position in the stack.

Due to Flash Player security restrictions, a content transition will not work when content is an external graphic stored on another domain.

Multipag	e Co	nten	t	x
+, 😭	\square	Ť	÷	Options
text				
1				

Two excellent examples of dynamically using scroll/contentPanes are at KoolMoves\Examples\Components\Flash 6\Other examples\kcdemo.fun and KoolMoves\Examples\Components\Flash 8\Examples\KC8 Demo\kc8.fun.

```
KScrollPane API(Flash 6):
    MovieClip.CreateKScrollPane (instanceName, depth, initObject);
    KScrollPane.destroy ();
    KScrollPane.getEnabled ();
    KScrollPane.getHeight ();
    KScrollPane.getStyleProperty (styleProperty);
    KScrollPane.getWidth ();
    KScrollPane.loadContent (fileName, hscroll initial position,
        vscroll initial position);
    KScrollPane.setEnabled (enabled);
    KScrollPane.setSize (width, height);
    KScrollPane.setStyle (KStyleFormat);
    KScrollPane.setStyleProperty (styleProperty, value);
    KScrollPane.setHeight (height);
    KScrollPane.setHeight (height);
    KScrollPane.setWidth (width);
```

contentPane API (Flash 8): **Functions** getPage() - Returns the current page of multi page content.

setContent (type, source [, transition, transitTime [, clipRect, initObject]]) - use to load content.

```
Source
Type
                           string containing text
0 text
1 html text
                           string containing html text
2 external text
                           filename of text file
3 external html text
                           file name of html text file
4 external graphic
                           file name of swf, gif, png or jpg
                           linkage ID of movieclip
5 symbol library mc
6 symbol library bitmap
                           linkage ID of bitmap
7 bitmap
                           bitmap
```

Transition – defines transition appearance.

0 Crossfade1 Dissolve2 Left to right3 Top to bottom

transitTime - Value between 0 and 5, sets the number of seconds for the transition duration.

ClipRect - Rectangle of the flash.geom.Rectangle type representing the area to clip. When the content is a movie(clip), objects sometimes start outside the stage area resulting in a problem when trying to recognize the width and height of the movie(clip). This problem is solved by the ability to manually set the region that should be displayed.

initObject - Specified after clipRect; when content type is 'symbol library mc', you can pass an initObject to the specified symbol library mc.

```
Alternative syntax for multipage documents:
setContent (pageArray, startPage [,transition,transitTime])
```

pageArray is an array of pages that make up the content. Each array item is a sub array containing the parameters for a normal setContent.

startPage is the number of the page to display in the beginning.

The transition parameters can be used to set an initial transition that is used instead of the normal one specified for the first page to display. Example:

```
pages = new Array();
pages.push([3,'firstPage.html');
pages.push([2,'secondPage.txt',0,3]);
pages.push([4,'thirdPage.jpg',1,2]);
myContentPane.setContent(pages,1,0,2.5);
```

setContentFilters (filterArray) - Sets the filters of the content. When using content filters, text background will be ignored and set to transparent. Example:

```
myContentPane.setContentFilters([new
flash.filters.DropShadowFilter(2)]);
```

setNewTextFormat (textFormat) - Analogous to textfield.setNewTextFormat.

setPage (pageNumber) - Sets the current page when multi page content is displayed.

setScrollPos (hsPos , vsPos) - Sets the position of the scroll bars. Both can have a value between 0 and 1.

setScrollPos(0,0) sets the scrollers to the top left. setScrollPos(1,1) sets the scrollers to the botom right. SetScrollPos(0.5,0.5) sets the scrollers to the middle.

setTextFormat ([beginIndex], [endIndex], textFormat) - Analogous to textfield.setTextFormat.

Properties:

autoHide - Possible values are 0 through 3.

- 0 means hide no scrollbars
- 1 means hide the horizontal scrollbar if possible
- 2 means hide the vertical scrollbar if possible.
- 3 means hide both the horizontal scrollbar and vertical scrollbar if possible.

Notes:

- The vertical scrollbar is never hidden when content is word wrapped text.
- This can only be set when setting up the component or just before setting new content

backgroundColor - Analogous to textfield.backgroundColor; gets / sets the background color of the text when content is text.

barTrans - When set to true, only scrollbars and buttons are visible during a transition. When set to false the tracks are also visible.

embedFonts - Analogous to textfield.embedFonts

htmlText - Analogous to textfield.htmlText. Content has to be text.

ignoreCR - Boolean value, true by default. Windows textfiles often use both cr and lf resulting in blank lines between each line of text. When set to true, cr is ignored when using external text content.

ignoreLF – Boolean value, false by default. When set to true, lfs are ignored when using external text content.

length - Analogous to textfield.length

styleSheet - Analogous to textfield.styleSheet

text - Analogous to textfield.text. Content has to be text.

wordWrap - Analogous to textfield.wordWrap

Events

onScroll (hsPos , vsPos) - Event occurring when content is scrolled.

onTransit - Event occurring just before the content transition takes place. This gives you, for example, the ability to see the position of the scrollbars before the content is first displayed.

List Box

Flash 6 & 8. Works pretty much the same as the comboBox, except that there is a Flash 6 version, it is a list instead of a drop down box, and there is an option to allow the component to have more than one item selected at a time. A Flash 8 dynamic example is located at KoolMoves\Examples\Components\Flash 8\Examples\ListBox\KC8 Example ListBox.fun.

List Box listbox1	
?	1
All Look E	ffects Behavior
Look	
Items	none
Version	Flash 6
Bevel settings	
Hide scrollbar	
Multiple selection	
Font	Tahoma
Arrow color	
Background color	
Button color	
Scroll bar color	
Scroll track color	
Selection bar cold	
	black
Selected text col-	white
Text background	
Has gradient styl	
	no
Has shaded style	
	black
Behavior	
On change	none
At this time there are	2 versions: the
atest requires Flash 8	

All Look E	ffects Behavio
Look	
Items	none
Version	Flash 8
Bevel settings	default specs
Hide scrollbar	yes
Multiple selection	no
Font	Tahoma
Arrow color	
Background color	
Button color	
Scroll bar color	
Scroll track color	
Selection bar cold	
Text color	black
Selected text col	white
Text background	
Has gradient styl	
Has liquid style	
Has shaded style	
Border color	
Behavior	
On change	none

```
KListBox API (Flash 6):
  MovieClip.CreateKListBox (instanceName, depth, initObject);
  KListBox.addItem (label, value);
  KListBox.addItemAt (index, label, value);
  KListBox.destroy ();
  KListBox.getEnabled ();
  KListBox.getItemAt (index);
  KListBox.getItemLabel (index);
  KListBox.getItemValue (index);
  KListBox.getItemID (index);
  KListBox.getLength ();
  KListBox.getRowCount ();
  KListBox.getScrollPosition ();
  KListBox.getSelectedIndex ();
  KListBox.getSelectedIndices ();
  KListBox.getSelectedItem ();
  KListBox.getSelectedItems ();
  KListBox.getSelectMultiple ();
  KListBox.getStyleProperty (styleProperty);
  KListBox.getValue ();
  KListBox.getWidth ();
  KListBox.onChange = OnChangeFunction;
  KListBox.removeAll ();
  KListBox.removeItemAt (index);
  KListBox.removeItemsByLabel (label, isSubstring);
  KListBox.removeItemsByValue (value, isSubstring);
  KListBox.replaceItemAt (index, label, value);
  KListBox.setAutoHideScrollBar (autohide);
  KListBox.setEnabled (enabled);
  KListBox.setRowCount (rowcount);
  KListBox.setScrollPosition (scrollPosition);
  KListBox.setSelectedIndex (index);
  KListBox.setSelectedIndices (selectedIndicesArray);
  KListBox.setSelectMultiple (multiple);
  KListBox.setStyle (KStyleFormat);
  KListBox.setStyleProperty (styleProperty, value);
  KListBox.setWidth (width);
  KListBox.sortItemsByLabel (ascending);
  KListBox.sortItemsByValue (ascending);
```

ListBox API (Flash 8): see the Flash 8 ComboBox API under ComboBox.

Push Button

Flash 6 & 8. Click on the Label field to add a label as covered in Check Box. Click on the On click field to add behavior as covered in Check Box.

Rush Button pus	shbutton1 🗙
All Look E	Effects Behavior
Look	
Version	Flash 6
Bevel settings	
Label	Label
Button color	
Text color	black
Has gradient styl	
Has liquid style	
Has shaded style	
Border color	
Behavior	
On click	none
P	

Look	Effects Behavi
Version	Flash 8
Bevel settings	default specs
Label	Label
Button color	
Text color	black
Has gradient styl	
Has liquid style	
Has shaded style	
Border color	
Behavior	
On click	none

KPushButton API (Flash 6):

```
MovieClip.CreateKPushButton (instanceName, depth, initObject);
KPushButton.destroy ();
KPushButton.getEnabled ();
KPushButton.getHeight ();
KPushButton.getLabel ();
KPushButton.getStyleProperty (styleProperty);
KPushButton.getWidth ();
KPushButton.onClick = OnClickFunction;
KPushButton.setAutoResize (autoResizeButton);
KPushButton.setEnabled (enabled);
KPushButton.setLabel (label);
KPushButton.setSize (width, height);
KPushButton.setStyle (KStyleFormat);
KPushButton.setStyleProperty (styleProperty, value);
KPushButton.setHeight (height);
KPushButton.setWidth (width);
```

Button API (Flash 8): **Functions:** setLabel(text, textFormat)

text - Label text in quotes. textFormat - reference to textFormat object specifying font properties and alignment.

example:

```
myTF = new TextFormat();
myTF.font = 'Arial';
myTF.size = 12;
myButton.setLabel('Caption',myTF);
```

Properties:

embedFonts - Analogous to textfield.embedFonts

Events:

onClick() - Event called when button is clicked.

Slider

Flash 8. Use the Slider API to control a parameter or change a value interactively. A straightforward example is available at KoolMoves\Examples\Components\Flash 8\Slider\KC8_Example_Slider.fun.

Slider API (Flash 8): Functions

setSlider (min, max, current) - Set the min, max and current value of the slider. All values have to be of the integer type. If you wish to use decimal values, you have to divide the result.

getValue () - Returns the current value of the slider.

Events

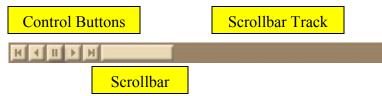
onMove () - Event called when slider is moved.

<mark>।</mark> Sli ्र	der slider1				×
All	Look	E	ffects	Behavio	r]
Lo	ok				1
0	rientation		horizoi	ntal	
Be	evel settings		defaul	t specs	
SI	ider settings		defaul	t specs	
A	row color				
Bu	utton color				
So	roll bar color				
So	roll track colo	r			
Be	havior				
0	n move		none		
Drien vertio	tation of object al	¦t ∙	- horizo	intal or	

SlideShow

Flash 8. The Slide Show component allows you to create a professional looking slideshow within your movie. Use the properties interface to organize the desired image files into a list, apply transition effects to the individual slides and set the appearance parameters for the slideshow interface.

The minimum size of the component is 125×75 (width by height) pixels with the navigation bar, 75×75 pixels without it. When turned on, the navigation bar will consume 19 pixels of the component's vertical display area, and the borders will consume an additional two pixels on all four sides of the display area.



The size of the scrollbar is 1/n of the scrollbar track, where n is the number of slides. The control buttons are, from left to right, Move to First Slide, Move to Previous Slide, Pause, Move to Next Slide, and Move to Last Slide. Clicking on any of the Move buttons will cause the slideshow to automatically pause at that slide – click on the Pause button to resume autoplay mode.

For a list of available transitions and export setting requirements, see <u>Slideshow Transitions</u> in Appendix B. For a quick demo of the available transitions, please see

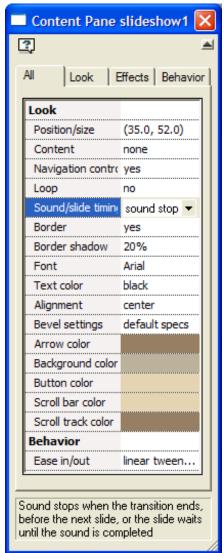
\KoolMoves\Bin\transition_explorer.swf. For slideshow component project examples, please see the .fun files in \KoolMoves\Examples\Components\Flash 8\Examples\SlideShow\.

Slide Show API (Flash 8)

Functions:

setSlides (slides [, loopSlide [, callouts & clicks [, textformat]]]) - defines a slideshow.

slides is an array, each item of which is another array containing information for a slide in the slideshow (so slides is in effect a two dimensional array – actually three dimensional as there is a sub-sub array, described below). An item's position in the slides array determines that item's respective image's position in the slideshow. Each slides array item contains the following:



[transition id, transition time, image / symbol library link name, image time, scale mode, slide background color, effects, sound link name, callouts & clicks indices, callouts transition]

transition id - 32 bit hex integer (0x0000000) value that defines the transition to be used for a slide. For a list of available transitions and their respective id number, see Slideshow Transitions in Appendix B.

transition time – transition duration in floating point seconds.

image / symbol library link name – string value, either the filename of the slide image or the link name if the slide images has been placed in the symbol library. Slide link names should not contain a dot (.) because the dot is used to determine if the image source is a file or symbol link.

image time - slide duration in floating point seconds, after the transition effect has finished.

scale mode – integer value setting how the image is sized to the slideshow box:

0 = scale to fit

1 =scale and crop

 $2 = \operatorname{crop}$

slide bg color -24 bit hex integer (0xRRGGBB) background color of a slide when the image doesn't fill the whole slide.

effects – integer value defining pixel based effects applied to an image. Except for sepia and b/w, effects can be combined by adding their values. The lined and channel build effects affect the transition and are more cpu intensive than b/w and sepia, which only affect the slide after the transition is over.

1 = lined (cpu intensive)

2 =sepia (not cpu intensive)

- 4 = b/w (not cpu intensive)
- 8 = channel build (mildly cpu intensive)

sound link name - the name in the symbol library used for the transition sound. External sound files are not supported. Link names are not allowed to contain a dot (.) because the dot is used to specify the sound loop value. For example 'mySound.3' will play the sound with link name 'mySound' three times. A sound automatically stops playing when a transition ends.

callouts & clicks indices –an array containing the array index numbers of the callouts and clickable area array to be used. [0,2] will use callout / clicks number 0 and 2 of the callouts & clicks array. Each callout or clickable area object containing the parameters for that particular callout or clickable area (see callouts and clicks below).

callouts transition – integer value used to select the enter/exit transition effect for that slide's callouts and clickable areas. Slide callouts come in after the slide transition ends and go out just before the next slide transition starts.

0 = fade in/out 1 = from/to top 2 = from/to right 3 = from/to bottom 4 = from/to left

loopSlide is the zero based integer defining the target slide the slideshow will loop to when the end is reached. When set to -1, no looping will occur.

callout / click – an array of callout and clickable area definitions with the following parameters: { x : x-axis, y : y-axis, w : width, h : height, text : text string, link : URL hyperlink, cradius : corner radius, line : line color, fill : base fill color }

x - horizontal position of callout or clickable area, integer value.

y - vertical position of callout or clickable area, integer value.

w - width of the callout or clickable area, integer value.

h - height of the callout or clickable area, integer value.

text [optional] - text content of the callout box.

link [optional] - link to go to when callout or clickable area is clicked. This can be a slide, e-mail address or external website.

cradius [optional] - radius of the corners of a callout, 0 based integer value. 0 means square corners, 6 (default) results in rounded corners.

line [optional] - line color of the callout box, 24 bit integer (0xRRGGBB)

fill [optional] - base fill color of the callout, 24 bit integer (0xRRGGBB)

textFormat – textFormat object reference. Use this to set the font and font size; see textFormat in the Content Pane component entry for an example of its use.

gotoSlide(slide) – string or integer value, this function moves the slideshow focus to the designated slide. slide value can be a slide number (starting at 0), 'first', 'last', 'previous' or 'next'.

setMode(mode) – Sets slideshow to play automatically or pause for manual direction. mode can be:

0 = auto play

1 = manual navigation

Properties:

_currentslide - [read-only] returns the zero based number of the slide currently displayed.

_totalslides - [read-only] returns the total number of slides set for the slideshow.

Events:

onEnd() - Event occurs when the end of the slideshow is reached and loopSlide is set to -1.

onLoop() - Event occurs when the end of the slideshow is reached and loopSlide is set to a specific slide.

onTransitStart() - Event occurs just before a slide transition takes place.

onTransitComplete() - Event occurs just after a slide transition takes place.

Interface Components not in the ToolBox

There are a couple interface components that can not be created with through the Toolbox.

KScrollBar

Flash 6. KScrollBar is a flash 6 component that attaches a scrollbar to a text field. It is created dynamically with the mc.CreateKScrollBar new object command. An example of scrollBar in use is located at KoolMoves\Examples\Components\Other examples\KcDemo.fun.

```
KScrollBar AP (Flash 6)I:
```

```
MovieClip.CreateKScrollBar (instanceName, depth, textfield,
horizontal);
KScrollBar.destroy ();
KScrollBar.getEnabled ();
KScrollBar.getStyleProperty (styleProperty);
KScrollBar.reAssign (object, controller, minvalue,
maxvalue, visibleSize, totalSize, horizontal);
KScrollBar.reAssignTextField (textfield, horizontal);
KScrollBar.setEnabled (enabled);
KScrollBar.setStyle (KStyleFormat);
KScrollBar.setStyleProperty (styleProperty, value);
```

Switch API:

Flash 8. The Switch component is basically a toggle control; it is added at authoring time through the symbol library. The button and switch components are simple and have very little functionality: text color, alignment, bold, font name etc can all be set by using the textFormat class. An example is located at \KoolMoves\Examples\Components\Flash 8\Switch\KC8_Example_Switch.fun.

Switch API (Flash 8): **Functions** getSwitch() - Returns the status of the switch (true or false)

setSwitch(status) – status = true (switched on) or false (switched off)

setLabel(text, textFormat)

text - Label text textFormat - textFormat object specifying font properties and alignment.

example:

```
myTF = new TextFormat();
myTF.font = 'Arial';
myTF.size = 12;
myTF.align = 'left';
mySwitch.setLabel('Caption',myTF);
```

Properties embedFonts - Analogous to textfield.embedFonts

Events

onSwitch() - Event called when switch is switched.

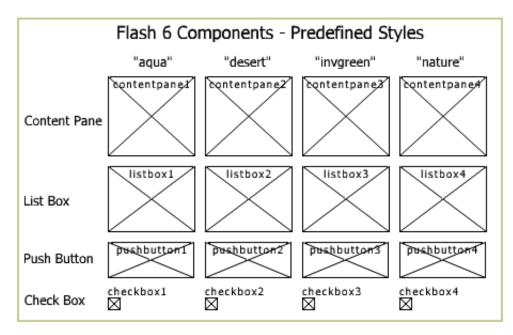
Non-Interface Components

Not all of the components are interface components. The following classes add additional capabilities to KoolMoves without a visible presence in the movie.

KStyleFormat

The KStyleFormat class is analogous to the TextFormat and Color classes, and is used to create object instances that can store a Flash 6 component's visual formatting (i.e., first you create a KStyleFormat object, then you set the style of the various properties, then use the object to apply your style to a Flash 6 interface component). KStyleFormat has four predefined formatting schemes ("aqua", "desert", "invgreen" and "nature").

Style objects allow you to quickly apply a consistent color scheme to related components. You can create the components in the authoring environment...

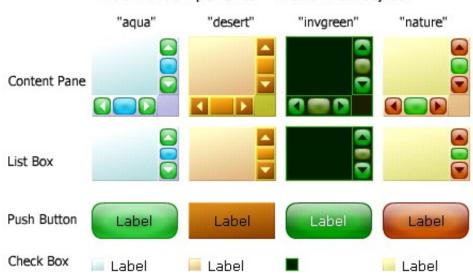


... and apply the style with ActionScript tied to an event or button action ...

```
myStyle1 = new KStyleFormat("aqua");
myStyle2 = new KStyleFormat("desert");
myStyle3 = new KStyleFormat("invgreen");
myStyle4 = new KStyleFormat("nature");
contentpanel.setStyle ( myStyle1 );
listbox1.setStyle ( myStyle1 );
pushbutton1.setStyle ( myStyle1 );
checkbox1.setStyle ( myStyle1 );
```

... and see the results when you preview the animation....

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Flash 6 Components - Predefined Styles

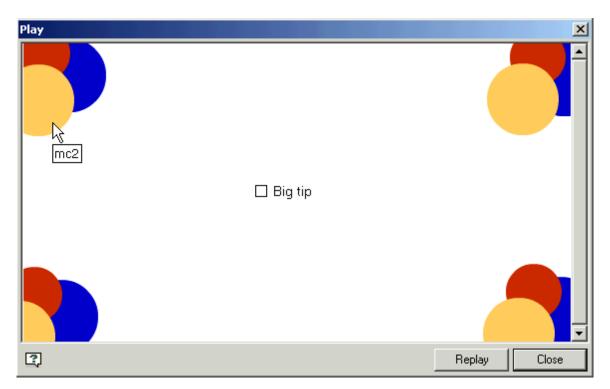
A style scheme can be used as a starting point, with individual properties on a specific component modified as needed. For instance, if your movie is using the "invgreen" scheme, you can change the check box label textColor property to black ("checkbox3.textcolor = 0x000000;"). And don't forget, you can always create your own style scheme from scratch.

KStyleFormat API (Flash 6):

```
myStyle = new KStyleFormat();
myStyle.arrow = 0xRRGGBB;
myStyle.background = 0xRRGGBB;
myStyle.border = 0xRRGGBB;
myStyle.check = 0xRRGGBB;
myStyle.face = 0xRRGGBB;
myStyle.gradient = true/false;
myStyle.liquid = true/false;
myStyle.radioDot = 0xRRGGBB;
myStyle.scrollBar = 0xRRGGBB;
myStyle.scrollTrack = 0xRRGGBB;
myStyle.selection = 0xRRGGBB;
myStyle.shaded = true/false;
myStyle.textColor = 0xRRGGBB;
myStyle.textFont = FontFace;
myStyle.textSelected = 0xRRGGBB;
myStyle.textSize = FontSize;
```

KToolTip

Instead of creating an object instance, KToolTip (Flash 6) adds a new capability to movie clips. After activating KToolTip, popup Screen Tips can be added to any movie clip. In the browser preview of \KoolMoves\Examples\Components\Tool Tip example\tiptest.fun below, pausing the mouse pointer over a movie clip causes a popup message to appear.



tiptest.fun is a single frame movie with a check box component and movie clips containing colored circles. After activating this feature, the code consists of assigning screen tip text to each movie clip and defining an event that changes the font size of the tips each time the checkbox is clicked on. The check box component itself is a movie clip, and has its own screen tip.

```
KToolTip.activate();
mc1._tooltip = "mc1";
mc1.mc1._tooltip = "mc1.1";
mc2._tooltip = "mc2";
mc3._tooltip = "mc3";
mc4._tooltip = "mc4";
mc4.mc1._tooltip = "mc4.1";
mc5._tooltip = "mc5";
mc6._tooltip = "mc6";
mc6.mc1._tooltip = "mc6.1";
mc7._tooltip = "mc7";
mc8._tooltip = "mc8";
mc8.mc1._tooltip = "mc8.1";
```

```
mc9._tooltip = "mc9";
checkbox1._tooltip = "Check to enlarge the tooltip";
checkbox1.onChange = function() {
   KToolTip.setStyleProperty("textSize",(this.getValue()) ?
20 : 12);
}
```

KToolTip API (Flash 6):

```
KToolTip.activate();
KToolTip.setStyle ( KStyleFormat );
KToolTip.setStyleProperty ( styleProperty, value );
```

Usage:

```
KToolTip.activate();
myMC1._tooltip = "Tooltip for movieclip 1";
myMC2._tooltip = "Tooltip for movieclip 2";
```

KRecordSet

This class is used to create an object to make a sql query and hold the results. After a query is passed to a 'bridge' file (covered below) the result is stored as an xml file. When the query successfully completes, the onQueried event function is executed and returns the information as an array of records. In this example it fills a listbox with information retrieved from the database.

```
myData = new KRecordSet();
myData.setDataBridge('xmlquery.php');
myData.query("select * from koolmoves order by name");
myData.onQueried = function() {
  for (var i = 0 ; i < this.records.length ; i++ ) {
    listbox1.addItem( this.records[i].name ,
  this.records[i] );
  }
}
```

By default, the bridge file is a php file named xmlquery.php, but theoretically asp files should also work. The bridge file contains the name of the database being accessed as well as all essential password and format information. An open connection to a mysql server where database queries can be directed is required.

By default, only select queries are allowed. Additional information about changing the query structure is included in the sample bridge file, i.e., it should be possible to use insert queries to add data. However, since there's no way to protect a swf file from being decompiled, anyone who studies the internet temp files could identify (and thus attack) the database. Because of this inability to protect the code, it is not wise to use Flash to access databases with sensitive information.

This is the table used in this example:

```
CREATE TABLE koolmoves (
   id int(10) unsigned NOT NULL auto_increment,
   name tinytext NOT NULL,
   kmversion tinytext NOT NULL,
   filesize tinytext NOT NULL,
   description mediumtext NOT NULL,
   urldemo tinytext NOT NULL,
   urldownload tinytext NOT NULL,
   PRIMARY KEY (id)
) TYPE=MyISAM;
```

The sample files (Koolmoves.fun, etc.) are located in \KoolMoves\Examples\Components\Flash 6\Database example\.

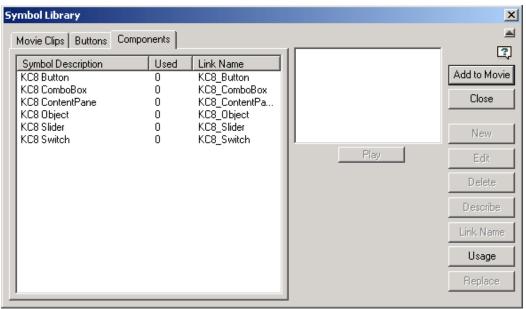
```
KRecordSet API (Flash 6):
    myData = new KRecordSet();
```

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```
myData.setDataBridge (filename);
myData.query (selectquery);
myData.onQueried = OnQueriedFunction;
```

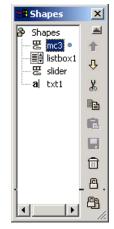
Using the Symbol Library to add Components

All of the Flash 8 interface components can be added at authoring time through the Symbol Library. The Used column tracks how many times a particular Flash 8 component has been added to the movie at authoring time. The count includes components added through both the Symbol Library and the Toolbox. ListBoxes and ComboBoxes use the same template (they differ only in a parameter setting), so the number of both are combined in the KC8 ComboBox count.



As mentioned earlier, component objects are members of a movieclip subclass. When a component is "attached" via the Symbol Library the base object containing the component is named in accordance with KoolMoves' default movieclip nomenclature, ie, mcN, N being an integer reflecting the order of the movieclip's creation. In the Shapes data view to the right, mc3 contains a comboBox, listbox1 was added through the Toolbox, and slider is another component object that was manually renamed to be more descriptive.

The main difference between components attached via the GUI and the Symbol Library is that the former are initialized before being placed in the movie, while the latter is initialized after with the mc.attachMovie() function.



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	Box listb	ох1	×
2			
All	Look	Effects	Behavior
			14

It was mentioned earlier that effects could not be applied directly to components. However, effects *can* be applied to movieclips (and thus indirectly to their contents). Thus, movie clip slider has effects available while List Box listbox1 has no effects available.

	Movie Clip sli	4	×
ſ	All 🛛 Look	Effects Be	havior
	Motion script	none	
	Fade/size	none	
	Spin/rotate	none	
	Filters	none	
	Blend mode	normal	

Chapter 15 – Symbol and Link Library

Before we start discussing the Symbol and Link Libraries, let us have a brief discussion about the ActionScript commands which are referred to in this chapter.

mc.attachMovie() is used to dynamically create an object instance based on a source object in the project's Symbol Library. The symbol library assigns a Link Name to each source object, and mc.attachMovie() uses the link to create a copy of the object on the "mc." parent object (in most cases "_root" which means straight on the Stage).

After defining Link Names in the Link Library to external sound files and bitmap images,

- soundObject.attachSound() can be used to load sound files, and
- flash.display.BitmapData.loadBitmap() can load bitmap images.

Symbol Library

The symbol library provides an easy mechanism for reusing Movie Clips, Buttons and Components throughout the movie. Use the Symbol library to organize, track, edit and export library members. Edits to a symbol are reflected in all its instances. Additionally, movie clips can have a link applied, either through the library Link Name button or the ActionScript attachMovie() method.

The symbol library is limited to movie clips, buttons and components. Changing a shape to a Symbol will not add it to the symbol library; instead, convert it to a movie clip and proceed from there. If you want to work with external images, define the image's file name in the Link Library and add it to the movie with the attachMovie() method.

Adding an element to the Symbol Library

Description of Symbol	×
Symbol 2	OK)
	Cancel

Select a movie clip or button and use Shapes > Add to Symbol Library or Ctrl-F11 to add the element to the Symbol Library. Then change the description from the default value of Symbol N to something useful.

The Symbol Library Interface

Use View > Symbol Library or press F11 to open the Symbol Library. Within the Symbol Library is a list of all symbols saved to the Symbol Library, showing their description, the number of times they have been manually placed in the movie, and the Link Name (optional) applied to the symbol.

Symbol Library		×
Movie Clips Buttons Components		A
Symbol Description Used Link Name		2
Symbol Description Used Link Name	_	Add to Movie
		Close
		New
	Play	Edit
		Delete
	Usage	Describe
	Replace	Link Name

Click on Add to Movie to place the selected symbol on the active frame. After closing the library you can manually position the symbol as desired.

Link Names allow the dynamic use of symbols and the application of behaviors to a symbol (look up attachMovie, duplicateMovie, Links, Object.registerClass, and flash.display.BitmapData.loadBitmap in an ActionScript manual). As mentioned in the Buttons chapter, buttons can not be accessed dynamically, so Link Names can not be assigned to them.

The New button allows you to create a movie clip or button from scratch and save it to the Symbol Library. These objects will only exist in the project's symbol library until they are added to the move. While both button and movie clip symbols created from scratch can be added to a movie with the Add to Movie button, only movie clip symbols (or components) are added to a movie with the attachMovie function.

The Edit button opens the selected button or movie clip symbol for editing.

The Delete button removes the selected button or movie clip symbol from the Symbol Library.

The Describe and Link Name buttons open dialog boxes allowing you to change values in these fields for the selected button or movie clip symbol.

Useage	X
Main Movie/mc1	
I	

Click on the Usage button to display the names and locations of all instances generated (in authoring time) for a given symbol. Dynamically created copies of symbols are not tracked in the Symbol Library.

With the Replace function a movie clip or button symbol placed on the stage can be replaced globally with another movie clip or button, respectively. Select an alternative from the drop down list of available movie clips or buttons in the library. The replace

Replac	e Occurrences of Symbol 1	×
With	•	OK
	Explosion 5 shapes Particles 5 Shapes	Cancel

function will not replace "complete" copies of the symbol that were created manually (i.e., using Ctrl-C or Edit > Copy Shapes and then pasted with Ctrl-V or Edit > Paste and the "complete copy" option selected). This means that button copies created with shared states will also be replaced when the symbol replace function is used.

Importing Symbols

To load the symbol library from a fun file into the current project, preview the fun file with either the File > Insert KoolMoves Movie menu command or the Tools Toolbar Import Clip Art library function. The source file does not actually have to be inserted; the act of previewing it copies the symbol library into the current project's symbol library. Repeated clicking on the preview button will create additional copies of the symbols in the library.

At this time you can't pick and choose which symbols to load; the entire set in the source file comes over. Be sure to give your library symbols unique names.

Link Library

In the Action Script Editor click on the Links button to open the Link Names window.

The Movie Clips tab displays available movie clip links created in the main gui with the Symbol Library interface. These links are used with the mc.attachMovie() action script command.

Link Names			×
Movie Clips Sounds Images			
Symbol Description Symbol 1	Link Name blueBall	Link Name	

Link Names	×
Movie Clips Sounds Images	
Symbol Description Link Name	Link Name
\\\Program Files\KoolMoves\Z D \\Program Files\KoolMoves\Z D	Add
	Delete
<u> </u>	

Under the Sounds tab, links to external sound files can be created. These links can be used with the sound.attachSound() action script command and the KoolMoves Slideshow component.

Under the Images tab, links to external image files can be created. These links can be used with the

flash.display.BitmapData.loadBitmap() action script command and the KoolMoves Slideshow component. Supported formats are BMP, GIF, JPG and PNG.

ink Names		×
Movie Clips Sounds Images		
Symbol Description	Link Name	Link Name
.\p1.jpg .\p2.jpg	photo1 photo2	Add
		Delete

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Appendices

- **Appendix A Known Issues and Error Messages**
- **Appendix B KoolMoves Reference Tables**
- Appendix C Programming / Coding Advice et. al.
- Appendix D Useful 3rd Party Software
- **Appendix E Toolbar Library Listings**
- **Appendix F Frequently Asked Questions (FAQ)**

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Appendix A – Known Issues and Error Messages

The performance of the FlashTM player is influenced by many factors -- the number of shapes in each frame, the number of points in each frame, the degree to which transparency is used, security settings, etc. The performance of the KoolMoves internal player is influenced by the same factors. In general, KoolMoves player is not as efficient as the FlashTM player, particularly with regard to rendering shapes with transparency and bitmap fills. The performance on a web site is a different issue and is influenced by typical internet limitations of modem speed, ISP bottlenecks, etc.

If other large applications are running while KoolMoves is running, KoolMoves may crash. This is due to a lack of system or graphic resources. Other causes of crashes are: bad video card drivers and free RAM memory managers.

Review the Movie Preferences and Export Settings sections for more information on parameters that affect movie performance.

Exceeded SWF Buffer Size

The most likely cause of this error message is that you are using a wav file that exceeds 1 MB or an image that compresses to a size greater than 1 MB.

Your best options are to either convert the wav file to MP3 which does not have a limit or to adjust the compression setting for the wav file in File > Export Settings. Using 100 JPEG quality in File > Export Settings is generally a very bad idea. If you need a 100 quality setting, you should be using gifs rather than jpegs.

SWF Too Big

The Flash player is not built for playing large files. Playing large swf movies can easily freeze a computer. So many different parameters can affect performance that Adobe (and earlier Macromedia) does not have a recommended swf size for Windows systems, though they posit that there is an optimal value for each system; for the Flash 4 stand alone player in Mac systems, Macromedia recommended that swfs not exceed 4 MB. This and other factors affecting performance are explained in

http://www.adobe.com/cfusion/knowledgebase/index.cfm?id=tn_14437.

The Flash player does have some concrete limitations that can not be exceeded: 16,000 frames, 16,000 loaded movies, 16,000 layers, and 16,000 symbol instances. "Combining multiple limits in a single Flash file would create greater risk...", i.e., the Flash Player is optimized for normal circumstances, and testing the limits "...can cause memory and other operating system issues."

Your best options are to either reduce the size of the movie (in particular, MP3 files using products such a GoldWave) or to daisy chain swf movies together using the Load Movie action.

With KoolMoves 5.0 and later, you will be warned when your swf file equals or exceeds 5MB. Earlier versions of KoolMoves have the warning set at 3MB.

Animation Not Displaying or Warning Messages Display

If the animation does not display in the preview window, there are several possible reasons:

- 1) You don't have the Flash plugin. Using Internet Explorer browser, go to www.adobe.com download page and download the latest Flash plugin.
- 2) You have javascript or activeX disabled. You can control this in Internet Explorer options settings.
- 3) There are security settings issues; see Internet Explorer Security Issues below.

Internet Explorer Security Issues

With the introduction of Windows XP SP2, there have been changes to Windows which affect Flash animation. To avoid a security warning when a Flash animation plays from a local file off your hard disk, a special comment line can be added to the html file. By default, KoolMoves adds the following line (called "Mark of Web"):

```
<!-- saved from url=(0013)about:internet -->
```

This line causes the file to display using the Internet security level rather than the Local security level, which tends to be more restrictive for XP SP2, in particular in preventing active file content (in this case Flash movies) from displaying.

All animation preview windows in KoolMoves use local html files so this issue affects KoolMoves functionality. Other operating systems and service packs or security configurations may have a problem with this line. In any case, you can control whether the line is added or not added in the File > Preferences > Play tab.

Mark of Web comment line included in Html to suppress Windows XP SP2 security warning

Maximum internal player stability (will probably decrease animation speed)

You can also control the Internet Explorer security warning in Windows XP SP2, by opening Internet Explorer and clicking on Tools/Internet Options/Advanced and searching for the Security group, the last one. Enable "Allow active content to run in files on My Computer".

A reference to this subject is

http://www.adobe.com/cfusion/knowledgebase/index.cfm?id=tn_19542. A more general reference is microsoft.com/technet/prodtechnol/winxppro/maintain/sp2brows.mspx.

Appendix B – KoolMoves Reference Tables

This appendix contains useful references for the KoolMoves interface and associated APIs.

Menu Structure

Menu entries followed by ellipses ("...") open dialog windows. Shortcut keystrokes are shown where available.

Eile		Conv. Shanas	Ctrl+C
<u>F</u> ile New	Ctrl+N	Copy Shapes	Del
	Ctrl+N Ctrl+O	Delete Shapes Paste Shapes	Ctrl+V
Open Save	Ctrl+S	Paste Shapes to Beginning	Curry
Save As	Cui+5		
		Paste Shapes to End Paste to File	
Export Movie Add Flash Movie to Web	Page (Wizard)	Paste to Flie	
Add Flash Movie to Web		Views	
As Swf (Flash Movie			Ctrl + E2
As SWF (Flash Movie) a		Shape Properties Score/Timeline C	Ctrl+F3 Ctrl+ShiftF3
As SVG (Scalable Vec	tor Graphics)		Alt+F3
As Frame Captures		Movie Overview Actions and Sounds Overview	
Diagnose Server Pro	blems		F11
Export Settings		Symbol Library	F9
Import		List of Shapes	Ctrl+K
Insert from Animation L	ibraries	List of Key Frames List of Scenes	Shift+F2
Web Interfaces			SIIIIt+r2
Text Effects Templat	tes	Navigation Overview Tools	
Clip Art		Status Bar	
Animated Clip Art		Status Bai	
Buttons		Shanaa	
Insert KoolMoves Movie	e	Shapes	
Trace Image		Select/Move	
Display Image		Selection Scope This Frame	
Clear Image		All Frames	
Configure		This Frame to First Frame	
Preferences		This Frame to Last Frame	
<u>1</u> Most Recent Files		Select Same Color	
<u>2</u> Most Recent Files		Invert Selection	Ctrl+I
<u>3</u> Most Recent Files		Hide Selection	Ctrl+I-I
<u>4</u> Most Recent Files		Last Selection	Ctrl+L
E <u>x</u> it			Ctrl+F11
		Add to Symbol Library Draw	Cultrii
Edit			
Undo	Ctrl+Z	Rectangle	
Redo	Ctrl+Y	Square Rounded Rectangle	
Undo History		Rounded Rectangle	
Redo History		Ellipse Circle with Curves	
Cut Shapes	Ctrl+X		7
		Circle with Line Segments	5

Star Polygon **Freehand Shape** Freehand Line Point by Point Point by Point, Open Border Line Add Text... Add Dynamic Text Add Interface Component Slide Show **Content Pane** List Box **Combo Box** Push Button Check Box Slider Add Button Convert to Button Add Movie Clip Convert to Movie Clip Align Left Ctrl+Shift+L Right Ctrl+Shift+R Top Ctrl+Shift+T Bottom Ctrl+Shift+B Horizontal Center Ctrl+Shift+H Ctrl+Shift+V Vertical Center Change Depth **Bring Forward** Ctrl+Up Send Backward Ctrl+Down Bring to Front Ctrl+Shift+Up Send to Back Ctrl+Shift+Down Bring Forward Selection... Alt+Up Send Backward Selection... Alt+Down Group Ctrl+G Add to Group Ctrl+Alt+G Ungroup Ctrl+Shift+G Select All Ctrl+A Ctrl+Shift+A Unselect All Advanced Morph Source

Points

Select/Move This Frame

All Frames This Frame to First Frame This Frame to Last Frame **Hide Selection** Add Delete Del Append to Line Get Position... Set Position... Selection Area **Color Selected Points Color Unselected Points** Effects Motion Script... Fade/Size... Spin/Rotate... Filters... Blend Mode... Drop Shadow... Transforms Break Apart Text Break into Text Characters Convert to a Shape with Points Rotate/Shift Gradient Fill Scale Gradient Fill **Rotate Image Fill** Shift Image Fill Scale Image Fill Numeric... Ctrl+Alt+N Ctrl+Alt+C Center Perspective. Ctrl+Alt+P **Rotate** Ctrl+Alt+R Scale Ctrl+Alt+S Slant Ctrl+Alt+T Ctrl+Alt+Q Squish Flip Horizontally Ctrl+Alt+H Flip Vertically Ctrl+Alt+V Rotate Left 90° Rotate Right 90° Scale/Translate Movie... Scale/Translate Selected Shapes...

Frames

Increase Movie Length

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Add Blank Frames		Zoom Out on Click No Zoom	F3 F4
Duplicate Last Frame Add Copy of Frame		Pan	1'4
Add Copy of Fame to End	Ctrl+End	No Pan	
Add Blank Frame	Ctrl+B	Grid	
Add Blank Frame to End	Curb	No Grid	
Delete Frame		6 Pixel Grid	
Next Frame	PgDown	10 Pixel Grid	
Previous Frame	PgUp	12 Pixel Grid	
Default Tweens	0 1	18 Pixel Grid	
Edit Actions/Sounds	F8	24 Pixel Grid	
Edit Movie Clip Frames	Ctrl+F	Snap to Grid	
1		Show All Masking	Ctrl+M
Movie		View Associated Joints	
Movie Width/Height		Antializased Rendering	
Movie Speed		Wire Frame Rendering	
Background Color		Onion Skinning	
Background Image		View Parent Movie	
Preloader			
Movie Dependencies	Ctrl+D	Help	
SWF File Statistics		Help Topics	F1
		Interactive Tutorial	
Play		Simple Task Assistant	Ctrl+Q
Play in Web Browser Ctr	·l+Space Bar	FAQ	
Play Portion of Movie		Tip of the Day	
Play in Stand-Alone Player	Ctrl+Alt+Enter	Tutorials	
Set Play Directory		Examples	
Single Step		Purchase	
Step Forward	>	Register	
Step Backward	<	Update Software	
		KoolMoves Website	
Options		Support Forum	
Reposition Movie Frame		Email Us	
Zoom Dragged Rectangle		About KoolMoves	
Zoom In on Click	F2		

Shortcut Keys

> Single step forwards Ctrl+Alt+T Slant	
PgUp Previous Frame Ctrl+Shift+T Align to	ne
PgDnNext FrameCtrl+VPaste shi	1
Ctrl+A Select all shapes Ctrl+Alt+V Flip vert	1
	n vertical
Ctrl+B Add blank frame centers	i vertical
Ctrl+Shift+BAlign bottomsCtrl+DownSend back	olword
6	ckward popup
Ctrl+Alt+C Center Ctrl+Shift+Down Send bar	
	ne to end
1	
1	ernal player
Ctrl+G Group shapes F1 Help	C
Ctrl+Alt+G Add to group F10 List key	
Ctrl+Shift+G Ungroup shapes F2 Zoom in	
Ctrl+H Hide/unhide shapes F3 Zoom ou	
Ctrl+Atl+H Flip horizontally F4 No zoom	
Ctrl+Shift+H Align on horizontal F5 Add point	
centers F6 Delete p	
Ctrl+I Invert selection F7 Move po	
Ctrl+K List key frames F9 List shap	L
-	nternal player
•	stand-alone
Ctrl+M Show masking player	
Ctrl+N New file Ctrl+Space Play in b	prowser
Ctrl+Alt+N Numeric transform Ctrl+Up Bring fo	orward
Ctrl+O Open file Alt+Up Bring fo	rward popup
Ctrl+Alt+P Perspective Ctrl+Shift+Up Bring to	front
Ctrl+Alt+Q Squish Del Delete s	hapes or points
Ctrl+Alt+R Rotate Ctrl+X Cut shap	bes
Ctrl+Shift+R Align right Ctrl+Y Redo	
Ctrl+S Save file Ctrl+Z Undo	

Slide Show Transition ID Table

The table below contains the Transition ID Numbers and their respective Transition Names. Please see the Slide Show API entry in Chapter 14 to see how these transitions are dynamically applied to slides.

Slideshows using transition names tagged with a trailing asterisk (" *") use bitmap images stored in a gif file (transitions.gif) and need to have this file embedded in the swf to apply their effect. With swf compression enabled, slide shows that only use untagged effects add about 12.3KB to the swf (not including slide images), while slideshows using tagged effects (and thus embedding transitions.gif) add about 25KB. Click on the Flash 8 Advanced button in the Export Settings dialog and then click on the "Export Bin/transitions.gif, required by most Slide Show component transitions" check box, then click on OK to have these patterns included in the swf when your project is exported.



The values referenced above reflect the slide show component as introduced with KoolMoves 5.3, and may change more patterns are added. For slideshows with a lot of embedded images the tagged effects have relatively minor impact, but for a simple rotating banner with external images that needs to load very fast, consider limiting your project to untagged transition effects.

There is a difference in cpu load between different effects, but more important than whether or not the transitions.gif file is used, is the complexity of the rendering by the flash player, i. e., the fancier the effect the greater the cpu load. Ultimately, the factors with the biggest impact on transition effect processing requirements are the image sizes and the movie frame rate.

0x00000000 0x2b805cc0 0x2b805ec0	bars, horizontal *		checkerboard, out * circle in [block style] *
	blinds, large,	0x0013fd20	circle out [block
	diagonal, left-down *		style] *
0x4301ddc0	blinds, large,	0x0013fcc0	circles, in *
	diagonal, left-up *	0x0013fdc0	circles, out *
0x4301dcc0	blinds, large,	0x0013fdc4	circles, rotating in *
	diagonal, right-down *	0x4113fd40	claws, closing *
0x4301dfc0	blinds, large,	0x4113fc40	, - 1 - 5
	diagonal, right-up *	0x0000009	cover down
0x23801cc0	blinds, large,	0x0000006	cover left
	horizontal *	0x0000000b	cover left-down
0x23801fc0	blinds, large, vertical	0x000000c	cover left-up
	*	0x0000007	cover right
0x2b804cc0	blinds, small,	0x0000000a	cover right-down
	horizontal *	0x000000d	cover right-up
0x2b804fc0	blinds, small, vertical	0x0000008	cover up
	*	0x8113fc40	curves down *
0x0113fdc0	checkerboard, in *	0x8113fe80	curves left *

0x8113ff80 curves right * 0x8113fd40 curves up * cover right 0x4113fd20 diamond in [block 0xfbfff00 random bars, vertical, large OxAll3fd0Curves upOxAll3fd0Curves up0x4113fd20diamond out [block
style] *Ox1053df00rectangles, large, in *0x4113fd20diamonds out *Ox1053df00rectangles, large, in *0x4113fd20diamonds, narrow, in *Ox1053df00rectangles, large, in *0x4113fd20diamonds, narrow, out *Ox1053df00rectangles, large, in0x4113fd20diamonds, narrow, out *Ox1053df00rectangles, large, in0x4113fd20diamonds, narrow, out *Ox1053df00rectangles, large, in0xfbeffc00dissolve, little wavesOx1053dc00rectangles, large, out *0x0000001fade, cover clockwiseOx1151de00rectangles, large, out *0x0000001fade, cover clockwiseOx1151de00rectangles, large, out *0x0000001fade, cover leftOx0153dc00rectangles, large, out *0x0000001fade, cover left-downOx04000003scale in0x0000001fade, cover right-downOx04000001scale in, horizontal0x0000001fade, cover upOx0000001scale out, horizontal0x0000001fade, uncover clockwiseOx0000001scale out, horizontal0x4013ff40flip fold down *Ox83f3c280scanlines, crossing0x4013ff40flip fold up *Ox83f3c240scanlines, left and0x4013ff40flip fold wit the wavesOx83f3c240scanlines, right and style] * 0x4013fe40flip fold right *0x4013fe40flip fold up *0x6381dc00meander *0x6381dc00meander *0x0013fc00oval in [block style] *0x0013fd00oval out [block style] *0xc013fd00pinwheel, clockwise *0xc013fc00pinwheels, clockwise *0xc013fc00push down0x000000push left0x0000000push right0x1bfffd59random bars,
horizontal, cover down0xfbfffd58random bars,
horizontal, large0xfbffff80random bars, vertical,
cover left0xfbfff80random bars, vertical,
cover left0xfbfff60random bars, vertical,
cover left0xfbfff60random bars, vertical,
cover left0xfbfff6

0xfbffff97 random bars, vertical, large

0x6111ffc0 triangles up * 0x04000008 uncover down 0x04000007 uncover left 0x0400000d uncover left-down 0x0400000a uncover left-up 0x04000006 uncover right 0x0400000c uncover right-down 0x0400000b uncover right-up 0x04000009 uncover up 0x4193dc00 unzip down * 0x4111fc00 unzip left * 0x4113de00 unzip right * 0x4113dc00 unzip up * 0x8113fcc0 waves down * 0xalllfcc0 waves down 2 * 0x8113fec0 waves left * 0xalllfec0 waves left 2 * 0x8113ffc0 waves right * 0x8111ffc0 waves right 2 * 0x8113fdc0 waves up * 0x8111fdc0 waves up 2 *

0x4013fd00	wedge down [block style] *
0x4013fc00	-
0x8013fc00	wheel clockwise, 1
	spoke [block style] *
0x8013fd00	wheel counter
	clockwise, 1 spoke
	[block style] *
0x0007c280	wipe down *
0x0007c140	wipe left *
0x0007c040	wipe right *
0x0007c380	wipe up *
0x4011fe00	wiper, bottom [block
	style] *
0x6011fe00	wiper, top [block
	style] *
0x4113dd00	zip down *
0x4113df00	zip left *
0x4111fd00	zip right *
0x4193dd00	zip up *

KoolMoves User Manual

Appendix C – Programming / Coding Advice et.al.

ActionScripting

KoolMoves provides up to Flash 8 ActionScripting capability (but not AS2). A large fraction of the possible Flash 5, 6, 7 and 8 operators and commands are supported at this time. It is very important to note that Flash 7 and 8 are case sensitive (e.g. gotoandplay will not work when exported as Flash 7 or Flash 8).

Some Flash 4 syntax is not supported. The only valid target syntax is the dot syntax. For example, Flash 4 syntax _level0:clip and _level0/clip should be represented as _level0.clip.

There are a number of ActionScript examples in the Examples folder. actionscript.toolbox.com, www.actionscripts.org, and http://www.adobe.com/support/flash/action_scripts.html are good sources of information. Definitive Guide to ActionScript by Colin Moock is one of the best books on the subject. Another approach is to learn JavaScript because Flash ActionScript is basically JavaScript. This is a good guide to JavaScript: www.oreillynet.com/pub/a/javascript/2001/%2012/07/action.html

Note that if you use gotoAndPlay or gotoAndStop actions and if you use a KoolMoves' Preloader, 2 frames are automatically added by KoolMoves at the beginning of the movie.

Also note that in gotoAndPlay, the first frame of the movie is 1 not 0. It is less error prone to name frames and use frame names in goto actions rather than frame numbers.

Stop movie action should not be placed on the first frame. In fact there is error checking to prevent this. A stop action on the first frame is often ignored by the Flash player.

With Flash 6, dynamic text has both an instance and a variable name in the Flash authoring tool. Object attributes like 'text' and '_x' are associated with the instance name which in KoolMoves is the name of the object, e.g., txt1. The variable name is used for backward compatibility for assignment statements such as = "hello". The KoolMoves interface supports an instance name and a variable name. The variable name can be set in the object Properties window. By default, it is the instance name plus "var". For example, if the name of a dynamic text object is txt1, when exported as Flash 6/7/8 the variable name is txt1var and the instance name is txt1. For a Flash 4 and 5 exported dynamic text object named txt1, the variable name is still txt1.

These statements are valid for Flash 6/7/8 export:

txt1var = "hello"; txt1.text = "hello"; txt1._x = 200;

These statements are valid for Flash 4/5 export:

txt1 = "hello"; txt1._x = 200;

Accessing Databases

To access a database using ASP, see www.haneng.com/lessons_21.asp. To access a database using PHP, see www.phpbuilder.com/columns/siddarth20000228.php3 and www.databasejournal.com/features/msaccess/article.php/1405201. Another reference is www.mysql.com/products/mysql/index.html.

Adding Flash Movies to PowerPoint

www.flashgeek.com is devoted to the subject of adding Flash presentations to PowerPoint.

You can get a free tool from Microsoft at www.globfx.com/products/swfpoint/ that adds a Flash movie to a PowerPoint presentation.

Also see www.itg.uiuc.edu/help/flash_to_ppt/.

Alternatively, you can add it manually. The first thing you will need to do is have the control toolbox visible if you don't already. Select View > Toolbar > Control toolbox.

Next you select the More Controls button (The button looks like a hammer and a wrench) you should get a large list of controls - you want the Shockwave Flash Object control. (If it is not on the list, you do not have the Flash OCX installed and you need to install it from Adobe's website.)

Then you draw where you want your movie to play in the PowerPoint Presentation. The Movie will look like a big square with an X through it until you format it.

Right click on the square and then change the properties. Double click the Custom property to assign the correct URL of your movie to the PowerPoint presentation (remember URL's can be local- I suggest that you create a shortcut of your SWF and then copy and paste the URL (Path) from the shortcuts properties view).

Until you view the slideshow the SWF will display as a square with an X through it. This will change as soon as you view the slide show.

This works on both PowerPoint 97 and 2000.

Tips on Adding Flash Movies to Web Pages

The .html file contains a large section of JavaScript that branches to a nonflash.gif if the browser does not have the Flash player or cannot read JavaScript. The nonflash.gif is not created by KoolMoves. You need to do that. Create your own image, in gif or jpeg format, for display when the Flash movie cannot play and change the name from nonflash.gif to whatever name you choose and change the name in the JavaScript file wherever it occurs. The size of the image is indicated next to the file name.

It is not guaranteed that an exported FlashTM movie can be imported into Adobe FlashTM for purposes of further editing or that a movie exported from KoolMoves, imported into FlashTM,

and then exported from FlashTM will have the same behavior as the original movie exported from KoolMoves.

The Flash player can only handle SWF file sizes less than 2 1/2 - 3 MB. When a SWF becomes around 3 MB in size, it starts doing weird things. Many times it will crash the computer. This is explained here http://www.adobe.com/cfusion/knowledgebase/index.cfm?id=tn_14437. If you want to create a movie exceeding this size, consider using a lower quality jpeg setting, making the sound file smaller, or breaking the movie into pieces and using load movie to load the separate pieces.

The HTML contains simple instructions (called parameters), and executes the SWF file in the area of your web document where you insert the script. Here is an example of the Flash HTML script that you would need to add to your page:

<OBJECT classid="clsid:D27CDB6E-AE6D-11cf-96B8-444553540000" codebase=
"http://active.macromedia.com/flash2/cabs/swflash.cab#version=4,0,0,0" ID=super WIDTH=560
HEIGHT=60>
<PARAM NAME=movie VALUE="super.swf">
<PARAM NAME=movie VALUE="super.swf">
<PARAM NAME=loop VALUE="super.swf">
<PARAM NAME=loop VALUE=true>
<PARAM NAME=quality VALUE=high>
<PARAM NAME=bgcolor VALUE=#FFFFF>
<EMBED src="super.swf" loop=true
quality=high bgcolor=#FFFFFF WIDTH=560 HEIGHT=60 TYPE="application/x-shockwave-flash"
PLUGINSPAGE= "http://www.macromedia.com/shockwave/download/
index.cgi?P1_Prod_Version=ShockwaveFlash">
</OBJECT>

Notice that there are both Object and Embed tags. The Object is for Internet Explorer and the Embed for Netscape. The parameters are referenced in both areas; and it is these parameters which allow you to do some customizing of your movie.

http://www.adobe.com/cfusion/knowledgebase/index.cfm?id=tn_12701 provides further explanation of these tags and others which you can use to customize the display of your movie.

The movie parameter references the SWF from your directory. You'll need to upload the SWF file to the same directory as your web page. If you place the SWF file in a different directory, then you will need to show the path to that directory in this parameter -- something like flash/super.swf -- assuming flash is the name of that particular directory or folder.

With the loop parameter you can have the movie play once, or play continuously, by setting it to false or true.

The bgcolor parameter can be set to whatever hexadecimal (#FFFFFF format) color you need for your web design.

The width and height are not parameters in the same sense as the others -- but you can change these as well. Since the SWF file is scalable, you can make necessary changes and the movie will smoothly resize to the new dimensions.

Either fixed pixel-based or flexible percentage-based dimensioning can be used. Fixed dimensioning (for example, width=300 and height=200) sets the size to the exact pixel dimensions, just like you normally would with an image. However, percentage-based dimensioning -- for example, width=50% and height=50% -- makes the SWF automatically resize, proportionately, to any browser window size without any deformations.

Backend Code – Sources and Samples

Check out these web sites for information on back ends. http://www.bignosebird.com/lscgi.shtml http://worldwidemart.com/scripts/ http://www.cgi-resources.com/ http://cgi.resourceindex.com/Programs and Scripts/

The front end is easy. All you need to do is set your URL with the Get or Post values to the proper URL and that's it. For CGI the URL will more than likely end in .CGI. When you use get or post it sends all the variables that have been set.

ASP code for load variables:

code:----<%
' initial setup (recommended)
Option Explicit ' Forces declaration of variables
Response.Buffer = true ' Don't output page until script finished
Response.Expires = -1441 ' Attempt to overcoming browser cache probs</pre>

' declare some variables dim strFirstName, strLastName

' get the info
strFirstName = "" & request.form("firstname")
strLastName = "" & request.form("lastname")

' process as desired %> -----

Where "firstname" and "lastname" are what the text fields are called in KoolMoves.

No need for first three lines, but they help. No need to DIM variables if Option Explicit not used.

Standard stuff, in other words KoolMoves creates a .swf that sends data correctly, as far as ASP is concerned anyway.

This info could then be used in html like this: code:-----Hello <%=strFirstName%> etc -----

More code in VB Script: code:-----<%@ LANGUAGE="VBSCRIPT" %> <% response.expires = 0 %> <%

sMail = sMail & "You Can Put Anything You want here- It is attached to the Body" & vbcrlf & vbcrlf

sMail = sMail & vbtab & "AnyQuestion you want answered - " & request("Any Variable you want") & vbcrlf

Set Mailer = Server.CreateObject("SMTPsvg.Mailer") Mailer.RemoteHost = "your mail server" Mailer.Subject = "anything you want "

Submitter = request("Var you set for the senders name") Mailer.FromName = "any name you want" Mailer.FromAddress = "any address you want"

Mailer.BodyText = sMail

Mailer.AddRecipient "name of who you want to send to", "E-Mail of person you want to send to"

```
%>
```

Code in Perl

code:-----#!/usr/bin/perl

require "subparseform.lib"; &Parse_Form;

\$Title = \$formdata {'Title'}; \$Contact = \$formdata {'Contact'}; \$About = \$formdata {'About'}; \$News = \$formdata {'News'}; \$Products = \$formdata {'Products'}; \$Link = \$formdata {'Link'}; @New =

("Title=\$Title&Contact=\$Contact&About=\$About&Products=\$Products&News=\$News&Link= \$Link");

open (LOG, ">/home/formexample/TextFile.txt") || &ErrorMessage; print LOG "@New"; close (LOG);

print "Content-type: text/html\n\n"; print "Status=Success - Your Comments have been updated. Please return to the main area to see the results";

sub ErrorMessage { print "Content-type: text/html\n\n"; print "Status=Connection Failed Please Check the path to the text File"; exit; }------

That Backend looks for the variables Title, Contact, About, News, Products, and Links and then writes them to a Text File called TextFile and generates a HTML Page telling you that the values were submitted. The Script works and is customizable. By Altering the names of the Vars in the First part of the script to mach the names you gave them in the SWF you created , remember to change them in the @New line.

HTML Coding

Tags in Dynamic Textfields

If a textfield has been to support HTML formatted content, either in the Properties window or dynamically with textField.html, the text can contain a subset of HTML formatting tags: , <I>, <U>, , , <P>,
, <A>, , , <TAB> and <TEXTFORMAT>.

Adding a Black Border

Use the following HTML code to add a black border to your movie:

```
<div style="border: 1px solid black;">
<!-- movie code here -->
</div>
```

Using KoolMoves to make a HTML Signature in Outlook

See this tutorial www.koolmoves.com/johnie/outlook/KoolMovesandOutlook.html.

Appendix D – Useful 3rd Party Software

Audio Editors

This is a limited listing of freeware and shareware audio editors:

- DigiDesign, a very powerful freeware audio editor, www.digidesign.com/flashnav/index.html
- ALF, a WAV to MP3 encoder, www.philnet.u-net.com
- Sound format converter www.dbpoweramp.com
- ASIA, a free wave editor, www.geocities.com/SiliconValley/Platform/9182/
- Audacity, a freeware audio editor, audacity.sourceforge.net/
- Windows media player and Windows sound recorder can be used to create WAV files and convert many formats to WAV.
- GoldWave, shareware \$40, www.goldwave.com
- Audio Mulch, shareware \$50, www.audiomulch.com/index.htm

Converting SWF to AVI

There are two methods.

Method 1: use SWF2Video, http://www.flashants.com, or SWF2AVI (freeware), http://www.pizzinini.net/?category=8&item=37. SWF2AVI converts any SWF into an AVI file. The AVI can then be exported as an Image Sequence from many Video Editing tools such as QuickTime. QuickTime is able to convert SWFs directly to image sequences.

Method 2: export as an image sequence and then make the AVI with your favorite AVI creation software (there are plenty of free ones) or convert to AVI using MS Movie Maker which comes with Windows XP.

To convert AVI to SWF, use CamStudio http://www.rendersoftware.com/products/camstudio/.

Flash Toolset

This is an inexpensive product (www.flashtoolset.com/FTS/features.html) which has many useful features:

- Automailer
- AS Editor
- Create Standalone Projector

- CD burner
- File operations
- and more

Vector Graphics Applications

The following applications are recommended for saving drawings in a vector format that can be imported into KoolMoves: Sun Open Office (http://www.openoffice.org), PhotoLine 32 (http://www.ciebv.com), Adobe Illustrator, Adobe Photoshop, and Adobe Streamline. Shapes made with Metafile Companion almost always import faithfully into KoolMoves.

Exe / Projector Creation

You can use a freeware tool obtainable at buraks.com/swifty/ to create a .exe file. SWF Studio at www.northcode.com is another useful product.

www.flashkeeper.com is a piece of shareware that costs \$29.99 and it can go either from EXE to SWF or the other way.

Another one that makes projectors is www.flash-player.us. It is \$19.99 for the full version 2.0 and has a free version and a trial version.

A whole list of them are at www.soft411.com/software/swf-to-exe.html.

Appendix E – Toolbar Library / Effect Listings

Text Effect Templates

Bounce in Crazy shadows 1 Crazy shadows 2 Crazy shadows 3 Crazy shadows 4 Crazy shadows 5 Crossover Drop from sky 1 Drop from sky 2 Drop from top and bounce Enter from both sides Enter on diagonal eyequake1 eyequake2 eyequake3 evequake4 Fade in and rotate Five rows flashing **FLIPFADE** Float up Float up with flip Float up with rotate get green b go orange b Jiggle 1 Jiggle 2 Jiggle 3 Jiggle 4 Jiggle 5 Jiggle with accordion 1 Jiggle with accordion 2 Jiggle with transparency Jiggle with twists 1 Jiggle with twists 2

Web Interfaces

archiboek1 archiboek2 bluewave bounce brique bleu classicgrid

Lateral motion 1 Lateral motion 2 open doorL open doorR open doorR2 open doorRL1 open doorRL2 open up2 open up2a open up2b open up2c open up2d Outline 1 Outline 2 Outline 3 Outline 4 Outline 5 Outline 6 Outline 7 Radiation Relfect 1 Reflect 2 Ripple roll over V roll over V VRS2 roll over Vboogie roll over VHF roll over VrayL2 roll over VrayR2 roll over VRS roll over VRS V VLS1 roll over VVF ROLL2RED1 Shutter 1

clouds desserts draw fashion bizarre folio green_navi

Shutter 2 **SPINREDOFF** Streak 1 Streak 2 Streak 3 Streak 4 Up down 1 Up down 2 Up down 3 Vertical to horizontal 1 Vertical to horizontal 2 Vertical to horizontal 3 Whirlpool Wild motion 1 Wild motion 2 Wild motion 3 Wild motion in and out 1 Wild motion in and out 2 Wild motion in and out 3 Wild motion in and out 4 Wipe 1 Wipe 2 Write on 1 Write on 2 Write on 3 Write on 4 Write on with colors Write on with transparency Write on with twists 1 Write on with twists 2 Write on with twists 3 Write on with twists 4 Write on with twists 5

loading intro menuslide music pagemaster probe scan scroll shapes slide station videotheek wavemenu website website2

Household

website3 wrappaper

Clip Art Gallery Categories (Folders)

Abstract Business Cartoon Characters 1 Cartoon Characters 2 Communications Computers Food Furniture Holidays & Events 1 Holidays and Events 2

Internet Music 1 Music 2 Nature Odds & Ends 1 Odds & Ends 2 People & Clothing Recreation 1 Recreation 2

Animated Clip Art

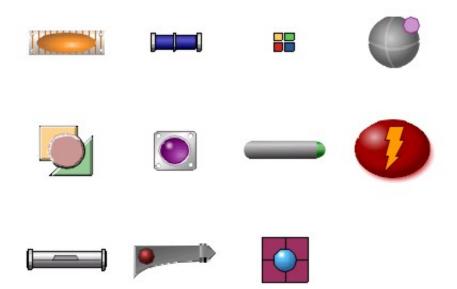
3dball 3dglasses butterfly lady lavalamp

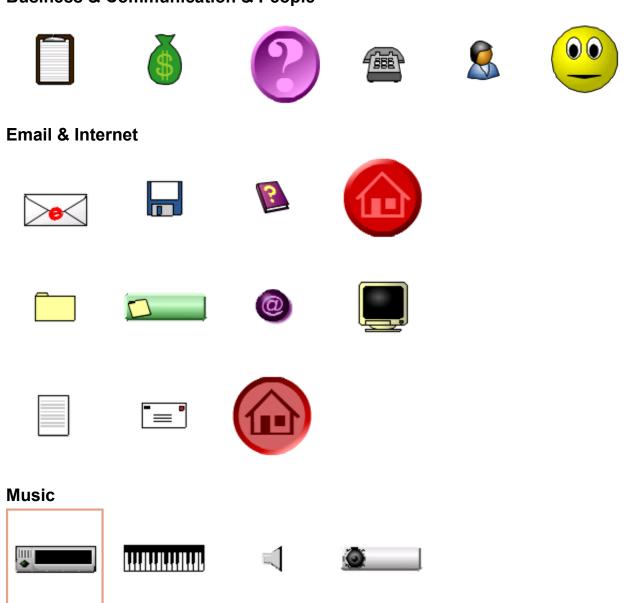
light motionmeter neongrid rotatecube rotateglobe Religious Scenery School & Play Sports Tools Transportation 1 Transportation 2 United States Weaponry

rotatepolyball soundwaves stagecurtain

Button Gallery Categories (Folders)

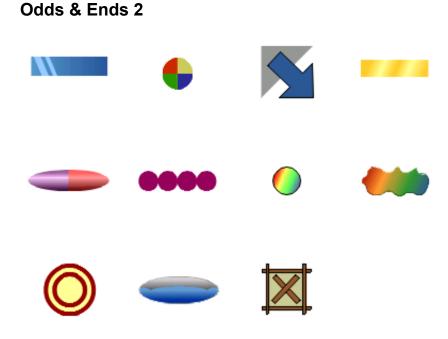
Abstract





Business & Communication & People

Navigation 1			
Navigation 2			
		\geq	
Odds & Ends	÷ 1		
X			X
_		(<u>- снак (</u>)	



Motion Scripts

Alpha Bars Alpha Letters Bar Slide In Blinds Block Mask Blur Blur 2 Blur and Fade Bounce Cartwheel **Clockwise Sweep** Cross Cursor Write On Decode Displacement Drop In Elastic Explode

3D Effects

Arch Ascension Astroids

Explosion Fall Forward Falling Leaves Flames Float to Center Flow on Curved Flow on Straight Flow on Stretched Frame From a Distance Growing Mask Jigsaw Jigsaw Tumble Light Projection Line Dissolve Matrix Merging Parts Motion Path 1

Back Flip

Badge Boomerang

Mouse Sensitivity Mouse Trail Moving Bars Moving Mask Multi Fade Multi Wipe **Opposing Motion** Particles Punch Wave Rainbow Random Reveal One by One Ripple Ripples Rising Water Scratchy Video Shake Shapes

Bullet Clockwise Elastic

Simple Write On Slide In/Out Snake Sparkles Spin Spiral In Starburst Sweeping Arc Sweeping Highlight Ticker Tape Tumble In Twirl One by One Twirl 2 One by One Vanish Write On with Bar Zoom In Zoom Out

Disco Lights Dragon Helicopter

Interlace	Recoiler	Spiral	Tumbling In
Jump Out Left	Retroscope	Sticks	Turning
Krazy	Rods	Swarm	Twister
Light Beam	Rods 2	Tarzan	Zed Rotor
Orbital	Roll In	T-Birds	Zoom 180
Pulse	Roll Over	Tornado	Zoom Y
Punch Left	Rotate 180	Tossing	
Punch Wave	Shuffle	Trail Blazer	

Filter Effects

Adjust Color	Blur	Glow	Gradient Glow
Bevel	Drop Shadow	Gradient Bevel	

Blend Mode Effects

Normal	Lighten	Substract	Overlay
Layer	Darken	Invert	Hardlight
Multiply	Difference	Alpha	
Screen	Add	Erase	

Appendix F – Frequently Asked Questions (FAQ)

Q. I can't find the answer to my problem here. Where can I find it?

A. There is extensive help under Help in the program and on the support page of the KoolMoves web site. Try searching the KoolMoves forum at www.flashkit.com using keywords. If you did not find an answer, post your question on the forum. Email support@koolmoves.com if you still need help.

Q. When I preview animations, the animations are missing. How can I fix this?

A. Double-click on windowssecurity.htm in KoolMoves / Flash Help folder to read about possible causes for this problem.

Q. How do I add my animation to my web page?

A. Use File > Export Movie. The first menu item, a wizard, will guide you through the process.

Q. Why can't I import my .fla files to KoolMoves?

A. KoolMoves uses .fun as its project extension; fla is a proprietary Adobe format. You can import swf files into KoolMoves as editable movies.

Q. What are the best formats to use when importing graphic files?

A. For ordinary picture files you can use jpg and for graphics with transparencies you can use gif and png files. 24 bit png format will give much crisper graphics than gif files although it does make the exported swf a bit larger.

Q. My movie will not display on my web page. Why not?

A. Going through these steps will help to debug the problem: If you double-click on the html file on your local disk, does the movie play on the web page? Did you ftp the swf file to your server as binary? Is the file name spelled exactly the same on the server as in the html JavaScript? Is the file in the correct location (compare with the relative path in the html JavaScript)?

Q. My movie keeps looping. How can I get it to stop?

A. Open Views > Sounds and Actions Overview and put a Stop command on the key frame where you want the movie to stop. Alternatively, set the looping option in File > Export Settings > Html.

Q. I've tried that, I want to stop my movie on key frame 1 but now it runs through the whole movie once and then stops on key frame 1.

A. Flash will often skip commands placed on the first frame of a movie. It is best to add a copy of the first key frame and put your commands on key frame 2.

Q. My movie takes 48 minutes to load on a T1 Cable/DSL connection and then my computer crashes. Does KoolMoves have a bug that causes this?

A. Your movie is way too big. Try splitting your movie into small chunks that can load quickly when you need them. For example make a button that says Go to key frame 3 and Stop, then on key frame 3 in the Sounds and Actions Overview put Load Movie mymusic1.swf.

Q. How do I make an entire swf a link on a web page?

A. Put a shape the size of the movie frame filled with the background color in all frames, send it to the bottom and make it a button OR put a shape the size of the movie frame filled with a totally transparent color in all frames and make it a button.

Q. What are Tweens?

A. Tweens are non-editable movie frames that sit between the movie key frames. They are used to add movement to your movie or to add time between key frames. For example, if you draw a box at the top of your screen in key frame 3, Add Copy of Frame to End with 6 tweens to create key frame 4, and in key frame 4 move the box to the bottom of the screen. When you play back your movie, the box will smoothly slide from the top of the screen to the bottom.

Q. I've made a flash banner in KoolMoves but I want to save it as an animated gif as well. Can I save it as a gif in KoolMoves?

A. No, but if you go to File >Export, you can save your movie as frame captures. You can then recompile them in an animated gif compiler like Paint Shop Pro/Animator.

Q. I'd like to study some examples of flash movies made with KoolMoves.

A. Go to the main KoolMoves site www.koolmoves.com, support page, where there is a list of different sites with downloadable examples.

Q. My computer crashed and now KoolMoves needs to be reloaded. Where can I get the program?

A. Email support@koolmoves.com.

Q. My Logitech mouse moves very slowly. How can I fix this?

A. This is a windows setting. Uncheck checkbox "Disable acceleration in games" at Control Panel > Mouse > Motion tab or turn off the "Enable game detection" setting under Start > Settings > Control Panel > Mouse (or Logitech MouseWare program).

Q. How do I select a shape or points when they are under another shape?

A. Select the shape on top and then press CTRL H to hide the shape thus revealing what is underneath. Press CTRL H again to undo the hide.

Q. How do I change the fill of a shape everywhere in the movie?

A. Select the shape with the selection scope set to All Frames. Whatever you do to the shape is now reflected everywhere. You are prompted first before global changes are implemented.

Q. How do I rename a shape, select a shape by name, or select a hard to get at shape?

A. Use the Shape List tool. Using this tool, you can select individual shapes or multiple shapes with CTRL and SHIFT select.

Q. Is there a way to combine KoolMoves, Swish, and Flash[™] authored movies?

A. Use the frame or button load movie action to load movies created by other tools or import the movies as objects.

Q. How do I create a tiled background?

A. Create a rectangle slightly larger than the movie frame in the first frame and send it to the back. Use the fill tool to fill the rectangle with your image. It will tile. Copy the rectangle, go to the second frame and use Edit > Paste to end of movie.

Q. Is there a way to overcome Flash[™] movie size (memory) limitation?

A. The Flash[™] player sets a limit on the size of the main swf. If you are including a large sound file, make it a separate swf and use load movie action to load it into the main movie. In this way you can effectively double the allowed size of the movie. This approach works in general for creating large movies. Moreover, breaking the movie into pieces results in faster internet loading.

Q. What do I use to reposition the movie frame in the main editing window?

A. Use Options > Reposition Movie Frame.

Q. Why can't I get the Bones feature to work?

Change your user Interface Style to Cartooning.

Q. When I rotate something object shrinks as it rotates.

A. The shape distortion is usually proportional to the number of degrees per Key Frame beyond a certain threshold. Two methods that work in eliminating this distortion: replace tweens with key frames to bring the number of degrees / KM below the threshold (ie, break up the rotation into smaller pieces) or use the Effects > Rotate menu command to rotate the object.

Q. When I move points on shapes that I have drawn, the borders become detached from the shapes. How can I fix this?

A. Uncheck checkbox "Enable OpenGL rendering" in File > Preferences, Drawing/Selection page.

Useful Flashkit Forum Threads.

You might like to review the following FAQ before posting to the KoolMoves forum (it explains a lot about the mechanics of posting to a forum):

http://www.flashkit.com/board/showthread.php?t=599674

Welcome to Flash Kit FAQ. Addresses the following: Posting Rules, Footer Rules, Footer Specs, Avatars and Titles, Post Count exception, Useful Forums, How to Become a Forum Moderator, and Multiple Accounts.

The following FAQ has a lot on sound file issue not related to KoolMoves:

http://www.flashkit.com/board/showthread.php?t=649910 Sounds and Music Forum > Common Sound Problems

Questions about, comments on, and/or suggested changes to the KoolMoves Forum Guidelines? Please Private Message (PM) pherbrick.

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