Meliora Software

Magic Tools Xtras Set

Windows ® 95

Windows ® 98

Windows Me™

Windows NT™

Windows 2000™

Windows XP™

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Content

Product description

MagicTools Xtras Set is a set of scripting Xtras for Macromedia Director 6.0 and above that provide additional functionality to Director applications. MagicRes Xtra allows you to change display resolution and frequency rate. MagicVolumer Xtra allows you to change system MIDI volume.

MagicRes Xtra

MagicRes Xtra exports the following Lingo functions:

NewRes (Xres,Yres, ColorDepth)

Sets the screen resolution to Xres x Yres and new color depth if ColorDepth is specified.

Example:

```
NewRes (800,600) c- changes the screen resolution only.
NewRes (800,600,24) c- changes the screen resolution and the color
depth.
```

Be sure to provide parameters in exactly the same order as stated above.
Please note that expressions like `NewRes(600,800)` will not work.

RestoreRes ()

Restores the resolution and color depth to the original values (the ones that were in effect before your projector started and made any changes).

NewRefreshRate (integer)

Changes display refresh rate. Integer - the new refresh rate value.

Example:

```
NewRefreshRate(80)
```

RestoreRefreshRate ()

Restores the original refresh rate value.
NewRefreshRate() and RestoreRefreshRate() functions work on Windows
NT4/2000/XP only. On Windows 95/98/Me they have no effect.

Technique

We'd like to provide you with some basic explanations how the get the demo movies we supply with the Xtra to work. We recommend you the following technique to change display resolution.

1. Create the stub movie and the main movie (we call them MagicResStart.dir and MagicResDemo.dir accordingly). We use the stub movie just to open the main movie. So, add the NewRes() function to the stub movie (MagicResStart.dir) into on startMovie handler:

[MagicResStart.dir]
```
on startMovie
    NewRes (800,600)
    -- It would be great if we add a one second pause here,
    -- so our customers will not see the main movie before the
    -- resolutions has been changed (resolution change takes some
    -- time).
    put the ticks into t
    repeat while the ticks < t + the frameTempo
    end repeat
    play movie "MagicResDemo.dir"
end
```

2. Add RestoreRes() function to on stopMovie handler of the main movie:

[MagicResDemo.dir]
```
on stopMovie
    RestoreRes()
    -- Again, one second pause here would be great.
    put the ticks into t
    repeat while the ticks < t + the frameTempo
    end repeat
end
```

3. Some words about the movie settings for both movies - to access movie settings select **Modify>Movie>Properties**. The first movie MagicResStart.dir can be any size, 320x240 for example, but it should be centered. When you create a projector using it take a look at the the following **Create Projector Options**:

Options: You don't need to change display resolution if your projector is running in a Window (not in the fullscreen mode). Set the Options to Full Screen.

Stage Size: Use Movie Settings. That allows each movie to run with own settings like position and size (not with the first movie settings). Uncheck the Center box if it is checked.

4. IMPORTANT NOTES.

A. To get or set display color depth use Director's 'the colorDepth' system property:
```
on prepareMovie
    the colorDepth = 24
end
```

B. Before you change display resolution please note that you may also scale your movie using "the desktopRectList" system property:
```
on prepareMovie
    (the stage).rect = the desktopRectList[1]
    (the stage).drawrect = the desktopRectList[1]
end
```
Please, refer to Director's help for more details.

C. Sometimes NewRes() function changes refresh rate as well. To fully restore a monitor setting changed by NewRes() you'll need to call both RestoreRes() and RestoreRefreshRate() in the on stopMovie handler even if you never changed refresh rate in the on startMovie handler.

MagicVolumer Xtra

Director has a great build-in ability to change wave sounds volume but it doesn't have one for the midi sounds. MagicVolumer Xtra allows to get and set system midi volume. It exports the following Lingo functions:

MidiVolumeSupport()

This function is to determine if it's possible to change MIDI volume on the current computer. It returns:
1 - if it's possible to change MIDI volume;
0 – if it's not possible.

Example:

```
IsPossible = MidiVolumeSupport()
put IsPossible
-- 1
```

There are some reasons why it's not possible to change MIDI volume on a certain machine. It doesn't have a sound card for example, or the sound card drivers are not MCI compliant.

MidiGetVolume()

Returns the current MIDI volume as an integer.

Example:

```
CurrentMIDIVolume = MidiGetVolume()
put CurrentMIDIVolume
-- 23567
```

Usually the range of values from 5000 to 50000 is used for MIDI volume.

MidiSetVolume (value)

Allows to set current MIDI volume.

Example:

```
MidiSetVolume (36423)
```

Technical Support

If you encounter a problem, which you cannot solve yourself and choose to contact us for technical support, please, send a message to support@meliorasoft.com. Be sure to provide the following information in your message:

- Director version

- Windows version

- Service packs installed (if any)

- CPU type and frequency rate

- RAM size

- Error description