Director

Macromedia Director is basically an animation package. The main feature of the application is the timeline. The

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Member

timeline is separated into individual cells. Each cell is an individual frame of the animation and could potentially hold one segmented image of the animation. The default timing sequence for Director ie 30 frames per second. This means that 30 frames would take 1 second to play, 60 frames 2 seconds, etc.

Director, however, is much more that an animation application, it has, over the years developed into a full interactive multimedia package. With the inclusion of Lingo, Director's scripting language, it is possible to write a fully integrated and interactive application which is self standing and operates independent to Director.

Lingo

Director, with the 2004 version now allows you to script in either Lingo or JavaScript, depending on the language you feel more easy with.





To move from one frame in the timeline to another there are two methods The first is to name the frame you are going to, the second is to set up a marker in the marker

channel above the timeline. The example above has been named "**The Word**". To set up a marker simply click into the channel and a new marker icon (the triangle) appears with the title "**New Marker**". Click into the title to change it to what ever you wish to call the marker. The markers set the position where something happens or changes within the structure of your work.

The Lingo commands to go to the marker would normally be set into a Cast member - for example a button or into the scripting channel above the main timeline.



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Macromedia Director Lingo

The script command set into the Cast member would be:

```
on mouseUp
          go to "The Word"
       end
or -
       on mouseUp
          go to marker "The Word"
       end
When you are going to a marker name - or:
       on mouseUp
          go to 30
       end
or -
```

```
on mouseUp
  go to frame 30
end
```

When you wish to stipulate a specific frame number.

When the command is set into a cast member the script window automatically writes the "on mouseUp" it sees the Cast member is an active button. If however the command is set into the Scripting channel it would read:

```
on exitFrame me
  go to "The Word"
end
```

Or as above including the words either "Frame" or "Marker" into the script.

The Script Window

The script window contains all of the facilities to write scripts. If you know the exact syntax and wording of the script you wish to use you can simply type it into the window.

If however you are not sure you can go to the "L" icon in the script window menu bar, click into it, a sub menu appears on-screen which gives you all the scripting commands alphabetically. If you wish to use the -"go to" - command scan down to G

Script:Script of Cast Member 29 儿蛋乳蟹 mouseUp on mouseUp go to "The Word" L = 9. 9. 🗞 🔹 💊 📒 🗲 📃 🚍 end getaProp() getAV() on getBehaviorDescription getError) getErrorString() getTashProperty() getHastDypetFt() getLast() getLast() getLast() getNetAffersScook(c) getNetHesrorString() getPixe() sound getPlayList getPros() getPref() getProp() getPref() B to Bt B to Bt Bu to Cln Clo to Ct Cu to Dn Dnz to E F to Fl Fm to Fz getaProp() and highlight the "go to frame" command and it will be placed into the scripting I J K L to Lin Lio to Lz M to Mn Mo to Move Movf to No Np to O

Loop

window.

If you want to make the timeline active - for example within a menu page where the programme is working, but waiting for an input or button press the timeline is set into a loop. The loop makes the video play head fix within a time loop this makes it go round in a circle until the loop is broken.

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getProp()

getPropAt()

P to Pm Pn to Prel

Prem to Re

Red to Rz S to Sd

Se to Sn So to Sq

Sr to Sz

to Trac

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The loop is set into the time line in one of two ways:



This command seemingly freezes the video play head on the frame where the command has been set into the scripting channel.



This command is used when the

end

on exitFrame

go to frame 540

or

video head reaches the frame where the command has been set into the script channel. The script tells the video head to go back to a frame before the one holding the command (if the command is on 545 you tell the head to go to 540). This sets the head within a loop as above. The programme is now waiting for a mouse click or a stipulated event.

Cast Members and Sprites

A sprite is a cast member which has been placed on the stage (the main working screen). A sprite is made into a working button by putting a script into the cast member. A sprites image can be changed by a "**mouseEnter** / **mouseLeave**" command. This makes it possible for the button to toggle between two visual states simply by rolling the cursor over the button.

With HCl guidelines, buttons need to give feedback to the user to inform the user that this sprite/button is active. In some cases the button toggles between black and white - or the image changes.

The command is:







The sprite image changes as the cursor crosses over it. The changed image state is permanent until a command is set to tell it to change back.

Note here: - "set the membernum of sprite 1" refers to the sprite channel "1" in which the image is resident, and the "to 2" statement refers to the cast member number "2" (the image)

When your cursor rolls out of the



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image you need to set another script command (into the image you have changed the sprite to) - so that it reverts back to the original image.

This command is:



this will change the image back to the original as the cursor leaves the sprite.

The checkCursor Command

In certain circumstances you would use a "**handler event**" to make the application follow your scripts. A handler is similar to a go-subroutine where you set the command word (in this case "**checkCursor**") and then set a global movie script describing the programming to be executed when the command is initiated. The programme looks for the handler, when found it executes the code contained within the handler.

A handler could be used to activate several buttons where for example those buttons activate AVI or QuickTime films used within your work. The scripting could go so:

The command word:

on exitFrame me checkCursor end

This command in itself means nothing to the programme and would set up an error message if used by itself.

The handler script set into "global" and "Movie Script"



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