

Arexx_CineMorph

COLLABORATORS

	<i>TITLE :</i> Arexx_CineMorph		
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REVISION HISTORY

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Chapter 1

Arexx_CineMorph

1.1 CineMorph Arexx Commands

ActivePoint
GetGridSize
GetImageSize
GetPoint
GetSelectedPoints
GetStatus
LockGUI
RedrawGrid
RequestNotify
RequestNumber
RequestResponse
SetPoint
UnlockGUI

1.2 ActivePoint

ACTIVEPOINT

FORMAT

ActivePoint Column/N/A, Row/N/A, Add/S

FUNCTION

Activate a grid point.

INPUTS

Column, Row

Grid point to activate.

Add

If specified, any existing active points will not be deselected.

RESULT

None.

1.3 GetGridSize

GETGRIDSIZE

FORMAT

GetGridSize

FUNCTION

Obtain the number of rows and columns in the grid.

INPUTS

None.

RESULT

Returns the number of columns and rows as "columns rows".

1.4 GetImageSize

GETIMAGESIZE

FORMAT

GetImageSize

FUNCTION

Obtain the pixel width and height of the current image.

INPUTS

None.

RESULT

Returns the pixel width and height as "width height".

1.5 GetPoint

GETPOINT

FORMAT

GetPoint Source/S, Dest/S, Col/N/A, Row/N/A

FUNCTION

Retrieve the pixel position of a grid point.

INPUTS

Source, Dest

Select whether to read from the source or destination grid.

Col, Row

Select the row and column of the grid point to examine.

RESULT

Returns the (possibly fractional) pixel position of grid point in an "X Y" format.

1.6 GetSelectedPoints

GETSELECTEDPOINTS

FORMAT

GetSelectedPoints Stem

FUNCTION

Retrieve all currently selected grid points.

INPUTS

Stem

Stem of variable in which to store the grid point information.

If not provided, then the stem variable SELECTED will be used.

RESULT

The zeroeth element of the stem variable will contain the number of selected points. The remaining elements will each contain the row and column of a selected grid point as shown in the example below.

EXAMPLES

```
GetSelectedPoints
DO j = 1 TO selected.0
  thiscol = selected.j.col
  thisrow = selected.j.row
END
```

1.7 GetStatus

GETSTATUS

FORMAT

GetStatus Object/A

FUNCTION

Return information about CineMorph.

INPUTS

Object

The name of an attribute to retrieve information on.
Currently defined attributes are:

ImageSize	Returns the pixel size of the image as "width height".
GridSize	Returns the grid columns and rows as "columns rows".
ActivePoint	Returns the column and row of the most recently active grid point as "column row".

RESULT

See above.

1.8 LockGUI

LOCKGUI

FORMAT

LockGUI

FUNCTION

Disable GUI updates. This is useful when performing many changes to the morphing grid.

INPUTS

None.

RESULT

None.

1.9 RedrawGrid

REDRAWGRID

FORMAT

RedrawGrid Source/S, Dest/S

FUNCTION

Redraw the source and/or destination grid points, presumably after making changes to them.

INPUTS

Source, Dest

Select either the source or destination grid. If neither is specified, then both grids are redrawn.

RESULT

None.

1.10 RequestNotify

REQUESTNOTIFY

FORMAT

RequestNotify Prompt/A

FUNCTION

Present an informational requester to the user. This function does not return until the user clicks Okay.

INPUTS

Prompt
Text of the requester.

RESULT

None.

1.11 RequestNumber

REQUESTNUMBER

FORMAT

RequestNumber Prompt/A,Default/N

FUNCTION

Ask the user to enter a numeric value. This function does not return until the user enters a value or clicks Cancel.

INPUTS

Prompt
Title of the requester.

Default

Default value to appear in the requester.

RESULT

Returns the number entered by the user.

1.12 RequestResponse

REQUESTRESPONSE**FORMAT**

RequestResponse Prompt/A

FUNCTION

Present a boolean (Okay/Cancel) requester to the user. This function does not return until the user clicks either Okay or Cancel. The RC variable will be non-zero if the user cancels the requester.

INPUTS

Prompt
Text of the requester.

RESULT

None.

EXAMPLES

RequestResponse Click Okay or Cancel
IF rc ~= 0 THEN RequestNotify You cancelled!

1.13 SetPoint

SETPOINT**FORMAT**

SetPoint Source/S, Dest/S, Col/N/A, Row/N/A, X/A, Y/A

FUNCTION

Set the pixel position of a grid point.

INPUTS

Source, Dest
Select whether you are setting a source or destination grid point.

Col, Row
Row and column of the grid point you are affecting. The upper-left grid point is designated as 0, 0.

X, Y
New pixel position for this grid point. Fractional values are accepted.

RESULT

None.

1.14 UnlockGUI

UNLOCKGUI

FORMAT

UnlockGUI

FUNCTION

Enable GUI updates. Note that you must redraw the grid yourself if you have made changes to it using the RedrawGrid call.

INPUTS

None.

RESULT

None.
