

EdgePoints

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Chapter 1

EdgePoints

1.1 EdgePoints.guide

EdgePoints 4.4 Contents

EdgePoints is a command which can either edge detect an image and produce a one bitplane output file or edge detect two images and produce an ARexx script for MPMorph to add the points.

From the GUI the O key can be used to action the requester. The C or Esc key can be used to cancel the requester.

The shell parameters are:

```
FROM1/K/A          First input file
FROM2/K            Second input file
TO/K               Output file
PERCENT1=PERC1/N/K/A  Percentage of first file
PERCENT2=PERC2/N/K   Percentage of second file
MINPOINTS=MINP/N/K   Number of points to add
MAXPOINTS=MAXP/N/K   Number of points to test
MINDIFF/N/K         Minimum points seperation
```

X/N/K/A
Width of output

Y/N/K/A
Height of output

PUBSCREEN/K
Public screen name

GRID/S
Random or grid

There is also a GUI with an extra gadget:

Mode gadget
Add Points or Edge Detect

Distribution
Copyright and distribution requirements

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1.2 EdgePoints.guide/FROM1

FROM1/K/A - First input file

This gives the name of the first input file.

From the GUI if the
Mode

gadget is set to Add Points then this defaults
to first image and can not be changed, if it is set to Edge Detect then
it defaults to the first image but can be changed.

The I key can be used to activate this gadget. With the right shift key
a file requester is displayed.

1.3 EdgePoints.guide/FROM2

FROM2/K/A - Second input file

This gives the name of the second input file.

If this is supplied then all of

```

    TO
    ,
    PERC2
    ,
    MINP
    ,
    MAXP
    and
    MINDIFF
    must
  
```

be supplied

From the GUI this defaults to the second image and can not be changed.

1.4 EdgePoints.guide/TO

TO/K - Output file

If

FROM2

is not supplied then this parameter is optional. If not supplied then the edge detected image is displayed on a screen. Any key can be pressed to stop the image being displayed. Click in the top left corner and try again if the key is ignored. If it is supplied then it gives the name of the file to save the edge detected ILBM Black and White image.

If

FROM2

is supplied then this parameter must be supplied and gives the name of the file to save the MPMorph ARexx script.

This can not be changed from the GUI.

1.5 EdgePoints.guide/PERC1

PERCENT1=PERC1/N/K/A - Percentage of first file

This gives the percentage of the first image which is considered to be an edge.

From the GUI this defaults to 10 which is a reasonable value.

The P key can be used to increase this value. With the shift key the value is decreased.

1.6 EdgePoints.guide/PERC2

PERCENT2=PERC2/N/K - Percentage of second file

When

FROM2
 is supplied or the
 Mode
 is set to Add Points this gives the
 percentage of the second image which is considered to be an edge.

From the GUI this defaults to 10 which is a reasonable value.

The E key can be used to increase this value. With the shift key the value is decreased.

1.7 EdgePoints.guide/MINP

MINPOINTS=MINP/N/K - Number of points to add

When

FROM2
 is supplied or the
 Mode
 is set to Add Points this gives the
 number of points which should be added to the morph. This should be
 smaller than the
 MAXP/Test Points
 value.

Depending on the
 MINDIFF/Min Separation
 value the actual number of
 points may be smaller than the number requested.

From the GUI this defaults to 50 which may be a reasonable value.

The A key can be used to increase this value. With the shift key the value is decreased.

1.8 EdgePoints.guide/MAXP

MAXPOINTS=MAXP/N/K - Number of points to test

When

FROM2

is supplied or the

Mode

is set to Add Points this gives the

number of points which are tested. This should be larger than the

MINP/Add Points

value.

If the

GRID/Grid

parameter is provided/gadget is selected then this

number of points is initially added in a square grid, otherwise they are added randomly.

From the GUI this defaults to 150 which may be a reasonable value.

The T key can be used to increase this value. With the shift key the value is decreased.

1.9 EdgePoints.guide/MINDIFF

MINDIFF/N/K - Minimum points separation

When

FROM2

is supplied or the

Mode

is set to Add Points this gives the

minimum separation of points to add to the morph.

From the GUI this defaults to 5 which may be a reasonable value.

The S key can be used to increase this value. With the shift key the value is decreased.

1.10 EdgePoints.guide/X

X/N/K/A - Width of output

This gives the width of the output. The input images are scaled to this size.

From the GUI this defaults to the width of the morph and can not be changed.

1.11 EdgePoints.guide/Y

Y/N/K/A - Height of output

This gives the height of the output. The input images are scaled to this size.

From the GUI this defaults to the height of the morph and can not be changed.

1.12 EdgePoints.guide/GRID

GRID/S - Random or grid

If this parameter is supplied/gadget selected then points are initially added in a grid. Otherwise they are added at random.

From the GUI this defaults to selected. The G key toggles the selection.

1.13 EdgePoints.guide/PUBSCREEN

PUBSCREEN/K - Public screen name

This parameter can be used to select a screen on which to display progress requesters.

From the GUI this defaults to the screen that MPMorph is running on and can not be changed.

1.14 EdgePoints.guide/Mode

Add Points or Edge Detect

This gadget defaults to Add Points which add points to the morph. It can also be set to Edge Detect which displays the result of edge detecting an image.

The M key can be used to cycle this gadget.

1.15 EdgePoints.guide/Distribution

Copyright and distribution requirements

EdgePoints - Edge detection for MPMorph
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Add Points

Mode

Add Points gadget

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Y