

## NAME

imgray - Convert an image to grayscale

## SYNOPSIS

imgray [options] infilename outfilename

## DESCRIPTION

imgray converts an input image to grayscale, then writes it to an output image file. If the input file contains multiple images, imgray converts each one and writes it to the output file. The input and output image file formats may be different.

## OPTIONS

imgray has a variety of options in the following four categories:

File Selection	What input and output files to use
Format Selection	What image file format to use
Format Control	What variant of a file format to generate
Standard	Standard generic options on all SDSC tools

File Selection, Format Selection, Format Control, and Standard options are common to all SDSC image tools and are discussed in depth in the man page for imconv(1IM).

All options can be abbreviated to the first few unique characters.

## NOTES

Conversion from color to grayscale computes the gray value for each pixel using the NTSC Y equation:

$$\text{Gray} = 0.30 * R + 0.59 * G + 0.11 * B$$

For notes regarding file format conversion and standard image tool options, see the man page on imconv(1IM).

Error messages are reported to stderr.

## EXAMPLES

To convert an RGB Alias pix file image to grayscale and store it in an hdf file, enter any of the following command lines:

```
imgray picture.pix picture.hdf
or
imgray -informat pix picture.pix -outformat hdf picture.hdf
or
imgray -informat pix - picture.hdf < picture.pix
or
imgray -informat pix picture.pix -outformat hdf - > picture.hdf
or
imgray -informat pix - -outformat hdf - < picture.pix > picture.hdf
or
cat picture.pix | imgray -informat pix - -outformat hdf - | cat > picture.hdf
```

## SEE ALSO

imconv (1IM), imfile (1IM), imformats (1IM), immono (1IM), ImVfbToGray (3IM), ImVfbToGrey (3IM)

For information on SDSC's image library, see imintro(3IM).

## AUTHOR

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See the individual file format man pages for the authors of the underlying format read and write code. The names of these man pages begin with the letters "im" followed by the format name. For example, the name of the TIFF man page is imtiff. To display it, enter man imtiff.

## CONTACT

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