## **REDCV FUNCTIONS DOCUMENTATION**

Most of functions are calling Red/System routines implemented in /libs/core/rcvRoutines.red for faster image rendering. All redCV routines can be directly called from a red program (not for newbies). For a more convenient access, Red/System routines are "exported" to red functions. Only red functions are documented. Doc string summarizes the function and calling function from red code sample is in *italic*.

All includes to redCV libraries are declared in a single file (/libs/redcv.red).

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#include %core/rcvRoutines.red ; All Red/System routines #include %core/rcvImage.red ; Image creating functions

#include %core/rcvCore.red ; Basic image processing functions

#include %imgproc/rcvImgProc.red ; Color space conversions, Convolution and other #include %math/rcvRandom.red ; Random laws for generating random images

#include %math/rcvStats.red ; Statistical functions for images

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Just deactivate the #include if you don't need functions, but rcvRoutines.red, rcvImage.red and rcvCore are obligatory.

More documentation to come.

Library: redCV/libs/core/rcvImage.red

Functions: 12

Function	Doc String
Basic Image I/O	
rcvCreateImage: function [size [pair!] return: [image!]	Create empty (black) image
img: rcvCreateImage 640x480	
rcvReleaseImage: routine [src [image!]]	Delete image from memory
rcvRelease img	
rcvLoadImage: function [fileName [file!] return:	Load image from file
[image!]	
img: rcvLoadImage %test.jpg	
rcvLoadImageB: function [fileName [file!] return:	Load image from file and return
[binary!] /alpha	image as binary
bin: rcvLoadImageB %test.png (bin=rgb)	
bin: rcvLoadImageB/apha %test.png (bin=argb)	
rcvSaveImage: function [src [image!] fileName [file!]	Save image to file
rcvSaveImage img %test.jpg	
rcvCloneImage: function [src [image!] return: [image!]	Return a copy of source image
dst: rcvCloneImage src	
rcvCopyImage : function [src [image!] dst [image!]	Copy source image to
rcvCopyImage src dst	destination image
rcvRandomImage: function [size [pair!] value [tuple!]	Create a random uniform or
/uniform /alea return: [image!]]	pixel random image
dst: rcvRandomImage/uniform 640x480 red	
rcvZeroImage: function [src [image!]	All pixels to 0
rcvZeroImage src	
rcvDecodeImage	TBD
rcvDecodelmageM	TBD
cvEncodelmage	TBD

Library: redCV/libs/core/rcvcore.red

Functions: 42

Function	Doc String
Image Conversion	<u> </u>
rcv2Gray: function [ src [image!] dst [image!] /average	Convert RGB image to Grayscale
/luminosity /lightness return: [image!]	according to refinement
rcv2Gray/average src dst	
rcv2BGRA: function [src [image!] dst [image!]	Convert RGBA => BGRA
rcv2BGRA src dst	
rcv2RGBA: function [src [image!] dst [image!]	Convert BGRA => RGBA"
rcv2RGBA src dst	
rcv2BW: function [src [image!] dst [image!]	Convert RGB image => Black and
rcv2BW src dst	White
rcv2BWFilter: function [src [image!] dst [image!] thresh	Convert RGB image => Black and
[integer!]	White according to threshold
rcv2BWFilter src dst 64	
rcvSplit: function [src [image!] dst [image!]/red /green	Split source image in RGB
/blue	separate channels
rcvSplit/blue src dst (->blue channel)	
rcvInvert: function [source [image!] dst [image!]	Similar to NOT image
rcvInvert src dst	
Math Operators on image	
rcvAdd: function [src1 [image!] src2 [image!] dst	dst: src1 + src2
[image!]	
rcvAdd image1 image2 destImage	
rcvSub: function [src1 [image!] src2 [image!] dst	dst: src1 - src2
[image!]	
rcvSub image1 image2 destImage	
rcvMul: function [src1 [image!] src2 [image!] dst	dst: src1 * src2
[image!]	
rcvMul image1 image2 destImage	
rcvDiv: function [src1 [image!] src2 [image!] dst	dst: src1 / src2
[image!]	
rcvDiv image1 image2 destImage	
rcvMod: function [src1 [image!] src2 [image!] dst	dst: src1 // src2 (modulo)
[image!]	
rcvMod image1 image2 destImage	
rcvRem: function [src1 [image!] src2 [image!] dst	dst: src1 % src2 (remainder)
[image!]	
rcvRem image1 image2 destImage	
rcvAbsDiff: function [src1 [image!] src2 [image!] dst	dst: absolute difference src1
[image!]	src2
rcvAbsDiff image1 image2 destImage	

Math apprators with scalar lintager I	
Math operators with scalar (integer !)	
rcvAddS: function [src [image!] dst [image!] val [integer!]	dst: src + integer! value
rcvAddS source destination 128	
rcvSubS: function [src [image!] dst [image!] val	dst: src - integer! value
[integer!]	
rcvSubS source destination 128	
rcvMulS: function [src [image!] dst [image!] val	dst: src * integer! value
[integer!]	
rcvMubS source destination 2	
rcvDivS: function [src [image!] dst [image!] val	dst: src / integer! value
[integer!]	
rcvDivS source destination 2	
rcvModS: function [src [image!] dst [image!] val	dst: src // integer! value
[integer!]	(modulo)
rcvModS source destination 4	
rcvRemS: function [src [image!] dst [image!] val	dst: src % integer! value
[integer!]	(remainder)
rcvRemS source destination 2	
rcvPow: function [src [image!] dst [image!] val	dst: src ^integer! value
[integer!]	
rcvPow source destination 2	
rcvLSH: function [src [image!] dst [image!]val [integer!]	Left shift image by value
rcvLSH source destination 2	
rcvRSH: function [src [image!] dst [image!] val [integer!]	Right Shift image by value
rcvRSH source destination 2	
rcvSQR: function [src [image!] dst [image!] val [integer!]	Image square root
rcvSQR source destination 2	
Math operators with scalar (tuple!)	
rcvAddT: function [src [image!] dst [image!] val [tuple!] rcvAddT source destination 128.128.128	dst: src + tuple! value
rcvSubT: function [src [image!] dst [image!] val [tuple!] rcvSubT source destination 32.32.32	dst: src - tuple! value
rcvMulT: function [src [image!] dst [image!] val [tuple!]	dst: src * tuple! value
rcvMulT source destination 2.2.2	
rcvDivT: function [src [image!] dst [image!] val [tuple!]	dst: src / tuple! value
rcvDivT source destination 2.2.2	, , , , , , , , , , , , , , , , , , , ,
rcvModT: function [src [image!] dst [image!] val [tuple!]	dst: src // tuple! value (modulo)
rcvModT source destination 2.2.2	, , , , , ,
rcvRemT: function [src [image!] dst [image!] val [tuple!]	dst: src % tuple! value
rcvRemT source destination 2.2.2	(remainder)
Logical operators on Image	
rouAND, function [cro1 [image]] cro2 [image]] det	det. evel AND evel
rcvAND: function [src1 [image!] src2 [image!] dst	dst: src1 AND src2
[image!]	

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## Library: redCV/libs/imgproc/cvImgProc.red

Functions: 3

Function	Doc String
Space Color Conversion	
rcvRGB2XYZ: function [src [image!] dst [image!]	BGR to CIE XYZ color conversion
rcvRGB2XYZ src dst	
rcvXYZ2RGB: function [src [image!] dst [image!]	CIE XYZ to RBG color conversion
rcvXYZ2RGB src dst	
Image transformation	
rcvFlip: function [src [image!] dst [image!] /horizontal	Left Right, Up down or both
/vertical /both return: [image!]	directions flip
rcvFlip/horizontal src dst	
rcvFlip/vertical src dst	
rcvFlip/both src dst	
Image Convolution	
rcvConvolve: function [src [image!] dst [image!] kernel	Convolve an image with the
[block!] factor [float!] delta [float!]	kernel
rcvConvolve src dst noFilter 1.0 0.0	
rcvFilter2D: function [src [image!] dst [image!] kernel	Basic convolution Filter
[block!] delta [integer!]	
rcvFilter2D src dst noFilter 0	
rcvFastFilter2D: function [src [image!] dst [image!]	Faster convolution Filter
kernel [block!]	
rcvFastFilter2D src dst Filter	