

Pixel oriented functions	Use case	Signification
abs	abs (x)	Absolute value of x.
acos	acos (x)	Arc cosine of x.
acosh	acosh (x)	Hyperbolic arc cosine of x.
asin	asin (x)	Arc sine of x.
asinh	asinh (x)	Hyperbolic arc sine of x.
atan	atan (x)	Arc tangent of x.
atan2	atan2 (y, x)	Arc tangent of y/x.
atanh	atanh (x)	Hyperbolic arc tangent of x.
ceil	ceil (x)	Round x upwards to the nearest integer.
cos	cos (x)	Cosine of x.
cosh	cosh (x)	Hyperbolic cosine of x.
exp	exp (x)	Exponential function.
fac	fac(x)	Factorial function.
floor	floor (x)	Highest integer less than or equal to x.
ln	ln (x)	Natural logarithm of x.
log	log (x)	Base-10 logarithm of x.
log10	log10 (x)	Base-10 logarithm of x.
log2	log2 (x)	Base-2 logarithm of x.
max	max (x, y)	Maximum function.
min	min (x, y)	Minimum function.
ncr	ncr (x, y)	Combinations function.
npr	npr (x, y)	Permutations function.
pow	pow (x, y)	Exponentiation function.
sin	sin (x)	Sine of x.
sinh	sinh (x)	Hyperbolic sine of x.
sqrt	sqrt (x)	Square root of x.
tan	tan (x)	Tangent of x.
tanh	tanh (x)	Hyperbolic tangent of x.
trunc	trunc (x)	Truncated integer part of x.

Constants		
pi	pi	The constant $\Pi=3.141592\dots$
e	e	The constant $e=2.718282\dots$

Special function	Use case	Signification
mtf	mtf (m, x)	Midtones Transfer Function (MTF) of x for a midtones balance parameter m in the [0, 1] range.

Statistical functions	Use case	Signification
adev	adev (Image)	Average absolute deviation of the image.
bwmv	bwmv (Image)	Biweight midvariance of the image.
mad	mad (Image)	Median absolute deviation of the image.
max	max (Image)	Pixel maximum of the image.
mdev	mdev (Image)	Median absolute deviation of the image.
mean	mean (Image)	Mean of the image.
med	med (Image)	Median of the image.
median	median (Image)	Median of the image.
min	min (Image)	Pixel minimum of the image.
noise	noise (Image)	Estimation of Gaussian noise.
sdev	sdev (Image)	Standard deviation of the image.

Geometric functions	Use case	Signification
height	height (Image)	Height in pixels of the specified image.
width	width (Image)	Width in pixels of the specified image.

Operators	Use case	Signification
~	~x	Pixel Inversion operator ($\sim x = 1-x$).
^	x ^ y	Exponentiation operator.
*	x * y	Multiplication operator.
/	x / y	Division operator.
%	x % y	Modulus operator.
+	x + y	Addition operator.
-	x - y	Subtraction operator.

Flow Control	Use case	Signification
iif	iif(cond, expr_true, expr_false)	Conditional function.

Algebraic conditions		
<	x < y	Less Than relational operator.
<=	x <= y	Less Than Or Equal relational operator.
>	x > y	Greater Than relational operator.
>=	x >= y	Greater Than Or Equal relational operator.
sign	sign (x)	Sign of x (-1 if x<0, 0 if x=0, +1 if x>0)

Logical conditions		
!	!x	Logical NOT operator.
==	x == y	Equal To relational operator.
!=	x != y	Not Equal To relational operator.
&&	x AND y	Logical AND operator.
	x OR y	Logical OR operator.