

Image Functions

To use these functions, the Image Feature is required.

Fill(Image i, Number c)

Fills the image with the given color

Example
<pre>SELECT fill(image, 0.5) FROM Stream</pre>

Inv(Image i)

Inverts the pixel values of the given image

Example
<pre>SELECT inv(image) FROM Stream</pre>

Get(Image i, Number x, Number y)

Return the value of the pixel at the given location

Example
<pre>SELECT get(image, 100, 100) FROM Stream</pre>

Set(Image i, Number x, Number y, Number c)

Set the pixel at the given location to the given value

Example
<pre>SELECT set(image, 100, 100, 0.5) FROM Stream</pre>

Rotate(Image i, Number angle)

Rotates the image at the given angle in degree.

Example
<pre>SELECT rotate(image, 90.0) FROM Stream</pre>

Resize(Image i, Number width, Number height)

Resize the image to the given width and height

Example
<pre>SELECT resize(image, 500, 500) FROM Stream</pre>

Sub(Image i, Number x, Number y, Number width, Number height)

Returns a sub image at the given location and the given width and height.

- [Fill\(Image i, Number c\)](#)
- [Inv\(Image i\)](#)
- [Get\(Image i, Number x, Number y\)](#)
- [Set\(Image i, Number x, Number y, Number c\)](#)
- [Rotate\(Image i, Number angle\)](#)
- [Resize\(Image i, Number width, Number height\)](#)
- [Sub\(Image i, Number x, Number y, Number width, Number height\)](#)
- [ToImage\(<Number width, Number height>|<Matrix matrix>\)](#)
- [ToMatrix\(Image i\)](#)

Example

```
SELECT sub(image, 5, 5, 200, 200) FROM Stream
```

ToImage(<Number width, Number height>|<Matrix matrix>)

Creates a new image with the given width and height

Example

```
SELECT toImage(500, 500) FROM Stream
```

ToMatrix(Image i)

Return the pixel values of the given image as a matrix