## remap()

```
void cv::remap ( InputArray src,

OutputArray dst,

InputArray map1,

InputArray map2,

int interpolation,

int borderMode = BORDER_CONSTANT,

const Scalar & borderValue = Scalar()
```

## Python:

cv.remap( src, map1, map2, interpolation[, dst[, borderMode[, borderValue]]] ) -> dst

#include <opencv2/imgproc.hpp>

Applies a generic geometrical transformation to an image

The function remap transforms the source image using the specified map:

$$\mathtt{dst}(x,y) = \mathtt{src}(map_x(x,y), map_y(x,y))$$

where values of pixels with non-integer coordinates are computed using one of available interpolation methods.  $map_x$  and  $map_y$  can be encoded as separate floating-point maps in  $map_1$  and  $map_2$  respectively, or interleaved floating-point maps of (x,y) in  $map_1$ , or fixed-point maps created by using convertMaps. The reason you might want to convert from floating to fixed-point representations of a map is that they can yield much faster (2x) remapping operations. In the converted case,  $map_1$  contains pairs (cvFloor(x), cvFloor(y)) and  $map_2$  contains indices in a table of interpolation coefficients.

This function cannot operate in-place.

## **Parameters**

src Source image.

dst Destination image. It has the same size as map1 and the same type as src.

map1 The first map of either (x,y) points or just x values having the type CV\_16SC2 , CV\_32FC1, or CV\_32FC2. See convertMaps for

details on converting a floating point representation to fixed-point for speed.

map2 The second map of y values having the type CV\_16UC1, CV\_32FC1, or none (empty map if map1 is (x,y) points), respectively.

interpolation Interpolation method (see InterpolationFlags). The methods INTER\_AREA and INTER\_LINEAR\_EXACT are not supported by this

function.

borderMode Pixel extrapolation method (see BorderTypes). When borderMode=BORDER\_TRANSPARENT, it means that the pixels in the

destination image that corresponds to the "outliers" in the source image are not modified by the function.

borderValue Value used in case of a constant border. By default, it is 0.

## Note

Due to current implementation limitations the size of an input and output images should be less than 32767x32767.

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