

[Accelerate](#) / vImageMultidimensionalTable_Retain(_:)

Function

vImageMultidimensionalTable_Retain(_:)

Retrains a multidimensional table.

iOS 7.0+ | iPadOS 7.0+ | Mac Catalyst 13.1+ | macOS 10.9+ | tvOS 7.0+ | visionOS 1.0+ | watchOS 1.0+

```
func vImageMultidimensionalTable_Retain(_ table: vImage_MultidimensionalTable!) -> vImage_Error
```

Parameters

table

The multidimensional table to retain.

Return Value

`kvImageNoError`; otherwise, one of the error codes in [Data Types and Constants](#).

Discussion

This function increments the multidimensional table's reference count.

See Also

[Transforming with a multidimensional lookup table](#)

- Applying color transforms to images with a multidimensional lookup table
 - Precompute translation values to optimize color space conversion and other pointwise operations.
 - { } Cropping to the subject in a chroma-keyed image
 - Convert a chroma-key color to alpha values and trim transparent pixels using Accelerate.
 - { } Applying transformations to selected colors in an image
 - Desaturate a range of colors in an image with a multidimensional lookup table.
- ```
func vImageMultidimensionalTable_Create(UnsafePointer<UInt16>, UInt32, UInt32, UnsafePointer<UInt8>, vImageMDTableUsageHint, vImage_Flags, UnsafeMutablePointer<vImage_Error>!) -> vImage_MultidimensionalTable!
```
- Creates a multidimensional lookup table.
- ```
func vImageMultiDimensionalInterpolatedLookupTable_PlanarF(Unsafe Pointer<vImage_Buffer>, UnsafePointer<vImage_Buffer>, UnsafeMutableRaw Pointer!, vImage_MultidimensionalTable, vImage_InterpolationMethod, v Image_Flags) -> vImage_Error
```
- Uses a multidimensional lookup table to transform a 32-bit planar image.
- ```
func vImageMultiDimensionalInterpolatedLookupTable_Planar16Q12(Unsafe Pointer<vImage_Buffer>, UnsafePointer<vImage_Buffer>, UnsafeMutableRaw Pointer!, vImage_MultidimensionalTable, vImage_InterpolationMethod, v Image_Flags) -> vImage_Error
```
- Uses a multidimensional lookup table to transform a 16Q12 planar image.
- ```
func vImageMultidimensionalTable_Release(vImage_MultidimensionalTable!) -> vImage_Error
```
- Releases a multidimensional table.
- ```
typealias vImage_MultidimensionalTable
```
- An opaque pointer that represents a multidimensional lookup table.
- ```
struct vImageMDTableUsageHint
```
- Constants that indicate the use for a multidimensional lookup table.
- ```
struct vImage_InterpolationMethod
```
- Constants that represent different interpolation methods.