API Collection

VTPixelTransferSession

An object converts video data from source pixel buffers to destination pixel buffers.

Overview

A pixel transfer session supports the copying and/or conversion of images from source pixel buffers to destination pixel buffers. The basic workflow used when working with a pixel transfer session is as follows:

1. Create a pixel transfer session by calling `VTPixelTransferSessionCreate(allocator:pixelTransferSessionOut:)`.
2. Optionally, configure the session with your desired Pixel Transfer Properties by calling `VTSessionSetProperty(_:key:value:)` or `VTSessionSetProperties(_:propertyDictionary:)`.
3. Transfer images by calling `VTPixelTransferSessionTransferImage(_:from:to:)`.
4. When you finish with the pixel transfer session, call `VTPixelTransferSessionInvalidate(_:)` to tear it down, and `CFRelease` to free its memory.

Topics

Creating Sessions

```
func VTPixelTransferSessionCreate(allocator: CFAllocator?, pixelTransferSessionOut: UnsafeMutablePointer<VTPixelTransferSession?>) -> OSStatus
```

Creates a session for transferring images between Core Video image buffers that hold pixels in main memory.

Configuring Sessions

Pixel Transfer Properties

Properties used to configure a VideoToolbox pixel transfer session.

Converting Image Data

```
func VTPixelTransferSessionTransferImage(VTPixelTransferSession, from: CVPixelBuffer, to: CVPixelBuffer) -> OSStatus
```

Copies and/or converts an image from one pixel buffer to another.

Inspecting Sessions

```
func VTPixelTransferSessionGetTypeID() -> CFTypeID
```

Retrieves the Core Foundation type identifier for the pixel transfer session.

Ending Sessions

```
func VTPixelTransferSessionInvalidate(VTPixelTransferSession)
```

Tears down a pixel transfer session.

Data Types

```
class VTPixelTransferSession
```

A reference to a VideoToolbox pixel transfer session.

See Also

Transformation

VTPixelRotationSession

An object that rotates source pixel buffers to destination pixel buffers.