

[AVFoundation](#) / AVAssetWriterInputPixelBufferAdaptor

Class

AVAssetWriterInputPixelBufferAdaptor

An object that appends video samples to an asset writer input.

iOS 4.1+ | iPadOS 4.1+ | Mac Catalyst 13.1+ | macOS 10.7–11.0 **Deprecated** | tvOS 9.0–26.2 **Deprecated** | visionOS 1.0+

```
class AVAssetWriterInputPixelBufferAdaptor
```

Overview

A pixel buffer adaptor provides a pixel buffer pool that you use to allocate pixel buffers to the output file. Using the provided pool for buffer allocation is typically more efficient than managing your own pool.

Topics

Creating an adaptor

```
init(assetWriterInput: AVAssetWriterInput, sourcePixelBufferAttributes: [String : Any]?)
```

Creates a new pixel buffer adaptor to receive pixel buffers for writing to the output file.

Appending pixel buffers

```
func append(CVPixelBuffer, withPresentationTime: CMTime) -> Bool
```

Appends a pixel buffer to the adaptor.

Accessing the pool

```
var pixelBufferPool: CVPixelBufferPool?
```

A pool of pixel buffers to append to the adaptor's input.

```
var sourcePixelBufferAttributes: [String : any Sendable]?
```

The attributes of the pixel buffers that the pool contains.

Inspecting a pixel buffer adaptor

```
var assetWriterInput: AVAssetWriterInput
```

The asset writer input to which the adaptor appends pixel buffers.

Relationships

Inherits From

NSObject

Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable






NSObjectProtocol

See Also

Media writing

`{}` [Converting projected video to Apple Projected Media Profile](#)

Convert content with equirectangular or half-equirectangular projection to APMP.

-  Converting side-by-side 3D video to multiview HEVC and spatial video
Create video content for visionOS by converting an existing 3D HEVC file to a multiview HEVC format, optionally adding spatial metadata to create a spatial video.
-  Writing fragmented MPEG-4 files for HTTP Live Streaming
Create an HTTP Live Streaming presentation by turning a movie file into a sequence of fragmented MPEG-4 files.
-  Creating spatial photos and videos with spatial metadata
Add spatial metadata to stereo photos and videos to create spatial media for viewing on Apple Vision Pro.
-  Tagging media with video color information
Inspect and set video color space information when writing and transcoding media.
-  Evaluating an app's video color
Check color reproduction for a video in your app by using test patterns, video test equipment, and light-measurement instruments.

`class AVOutputSettingsAssistant`

An object that builds audio and video output settings dictionaries.

`class AVAssetWriter`

An object that writes media data to a container file.

`class AVAssetWriterInput`

An object that appends media samples to a track in an asset writer's output file.

`class AVAssetWriterInputTaggedPixelBufferGroupAdaptor`

An object that appends tagged buffer groups to an asset writer input.

`class AVAssetWriterInputMetadataAdaptor`

An object that appends timed metadata groups to an asset writer input.

`class AVAssetWriterInputGroup`

A group of inputs with tracks that are mutually exclusive to each other for playback or processing.