

[AVFoundation](#) / AVAssetReaderOutput

Class

AVAssetReaderOutput

An abstract class that defines the interface to read media samples from an asset reader.

iOS 4.1+ | iPadOS 4.1+ | Mac Catalyst 13.1+ | macOS 10.7+ | tvOS 9.0+ | visionOS 1.0+

```
class AVAssetReaderOutput
```

Mentioned in

 Tagging media with video color information

Overview

You add concrete output instances, such as [AVAssetReaderTrackOutput](#) or [AVAssetReaderVideoCompositionOutput](#), to an asset reader to perform specific tasks.

Important

If you don't require modifying sample data in-place, set the value of the [alwaysCopiesSampleData](#) property to [false](#) to prevent the output from making unnecessary copies.

Topics

Configuring reading

```
var alwaysCopiesSampleData: Bool
```

A Boolean value that indicates whether the output vends copied sample data.

```
var supportsRandomAccess: Bool
```

A Boolean value that indicates whether the output supports reconfiguring the time ranges it reads.

```
func reset(forReadingTimeRanges: [NSValue])
```

Restarts reading with a new set of time ranges.

```
func markConfigurationAsFinal()
```

Tells the output that it's finished reconfiguring time ranges, and allows the asset reader to advance to a completed state.

Copying sample buffers

```
func copyNextSampleBuffer() -> CMSampleBuffer?
```

Copies the next sample buffer from the output.

```
class Provider
```

An object that reads a collection of samples of a common media type from an asset reader.

```
class RandomAccessController
```

Object used to reset an output provider to read specified time ranges.

```
protocol SupportedPayload
```

Inspecting the media type

```
var mediaType: AVMediaType
```

The media type of samples that the output reads.

Relationships

Inherits From

NSObject

Inherited By

AVAssetReaderAudioMixOutput
AVAssetReaderSampleReferenceOutput
AVAssetReaderTrackOutput
AVAssetReaderVideoCompositionOutput

Conforms To

CVarArg
CustomDebugStringConvertible
CustomStringConvertible
Equatable
Hashable
NSObjectProtocol

See Also

Media reading

`{}` Reading multiview 3D video files
Render single images for the left eye and right eye from a multiview High Efficiency Video Coding format file by reading individual video frames.

`class` AVAssetReader

An object that reads media data from an asset.

`class` AVAssetReaderTrackOutput

An object that reads media data from a single track of an asset.

`class` AVAssetReaderAudioMixOutput

An object that reads audio samples that result from mixing audio from one or more tracks.

`class` AVAssetReaderVideoCompositionOutput

An object that reads composited video frames from one or more tracks of an asset.

`class` AVAssetReaderSampleReferenceOutput

An object that reads sample references from an asset track.

```
class AVAssetReaderOutputMetadataAdaptor
```

An object that creates timed metadata group objects for an asset track.