

[AVFoundation](#) / [AVCaptureSpatialAudioMetadataSampleGenerator](#)

Class

AVCaptureSpatialAudioMetadataSampleGenerator

An interface for generating a spatial audio timed metadata sample.

iOS 26.0+ | iPadOS 26.0+

```
class AVCaptureSpatialAudioMetadataSampleGenerator
```

Topics

Analyzing audio samples

```
func analyzeAudioSample(CMSampleBuffer) -> OSStatus
```

Analyzes the provided audio sample buffer for its contribution to the spatial audio timed metadata value.

```
func newTimedMetadataSampleBufferAndResetAnalyzer() -> Unmanaged<CMSampleBuffer>?
```

Creates a sample buffer containing a spatial audio timed metadata sample computed from all analyzed audio buffers, and resets the analyzer to its initial state.

```
var timedMetadataSampleBufferFormatDescription: CMFormatDescription
```

Returns the format description of the sample buffer returned from the [newTimedMetadataSampleBufferAndResetAnalyzer\(\)](#) method.

```
func resetAnalyzer()
```

Calling this method resets the analyzer to its initial state so that a new run of audio sample buffers can be analyzed.

Relationships

Inherits From

NSObject

Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable

NSObjectProtocol

See Also

Stream capture

{ } Capturing Spatial Audio in your iOS app

Enhance your app's audio recording capabilities by supporting Spatial Audio capture.

class AVCaptureVideoDataOutput

A capture output that records video and provides access to video frames for processing.

class AVCaptureAudioDataOutput

A capture output that records audio and provides access to audio sample buffers as they are recorded.