AVFoundation / Additional data capture

API Collection

Additional data capture

Capture additional data including depth and metadata, and synchronize capture from multiple outputs.

Topics

Depth data capture

📄 Capturing photos with depth

Get a depth map with a photo to create effects like the system camera's Portrait mode (on compatible devices).

📄 Creating auxiliary depth data manually

Generate a depth image and attach it to your own image.

{} Capturing depth using the LiDAR camera

Access the LiDAR camera on supporting devices to capture precise depth data.

{} AVCamFilter: Applying filters to a capture stream

Render a capture stream with rose-colored filtering and depth effects.

{} Streaming depth data from the TrueDepth camera

Visualize depth data in 2D and 3D from the TrueDepth camera.

{} Enhancing live video by leveraging TrueDepth camera data

Apply your own background to a live capture feed streamed from the front-facing TrueDepth camera.

`class AVCaptureDepthDataOutput`

A capture output that records scene depth information on compatible camera devices.

`class AVDepthData`

A container for per-pixel distance or disparity information captured by compatible camera devices.

`class AVCameraCalibrationData`

Information about the camera characteristics used to capture images and depth data.

Metadata capture

`class AVCaptureMetadataInput`

A capture input for providing timed metadata to a capture session.

`class AVCaptureMetadataOutput`

A capture output for processing timed metadata produced by a capture session.

`class AVMetadataObject`

The abstract superclass for objects provided by a metadata capture output.

☰ Metadata types

Inspect the supported metadata object types that the framework supports.

Synchronized capture

`class AVCaptureDataOutputSynchronizer`

An object that coordinates time-matched delivery of data from multiple capture outputs.

`class AVCaptureSynchronizedDataCollection`

A set of data samples collected simultaneously from multiple capture outputs.

`class AVCaptureSynchronizedSampleBufferData`

A container for video or audio samples collected using synchronized capture.

`class AVCaptureSynchronizedMetadataObjectData`

A container for metadata objects collected using synchronized capture.

`class AVCaptureSynchronizedDepthData`

A container for scene depth information collected using synchronized capture.

`class AVCaptureSynchronizedData`

The abstract superclass for media samples collected using synchronized capture.

See Also

Capture

☰ Capture setup

Configure built-in cameras and microphones, and external capture devices, for media capture.

☰ Photo capture

Capture high-quality still images, Live Photos, and supporting photo data.

☰ Audio and video capture

Capture audio and video directly to media files, or capture streams of media for direct access to media sample buffers.