Framework

AVKit

Create user interfaces for media playback, complete with transport controls, chapter navigation, picture-in-picture support, and display of subtitles and closed captions.

iOS 8.0+ | iPadOS 8.0+ | Mac Catalyst 13.0+ | macOS 10.9+ | tvOS 9.0+ | visionOS 1.0+ | watchOS 9.0+

Topics

iOS playback and capture

{} Playing video content in a standard user interface

Play media full screen, embedded inline, or in a floating Picture in Picture (PiP) window using a player view controller.

`class AVPlayerViewController`

A view controller that displays content from a player and presents a native user interface to control playback.

`protocol AVPlayerViewControllerDelegate`

A protocol that defines the methods to implement to respond to player view controller events.

`class AVCaptureEventInteraction`

An object that registers handlers to respond to capture events from system hardware buttons.

`class AVCaptureEvent`

An object that describes a user interaction with a system hardware button.

`class AVCaptureEventSound`

A sound object for a capture event.

`class` `AVInputPickerInteraction`

Use `AVInputPickerInteraction` to present an input picker.

tvOS playback and capture

Customizing the tvOS Playback Experience

Adopt the latest features of the redesigned tvOS player user interface to provide a more streamlined way to watch your content.

Presenting Navigation Markers

Present navigation markers in the Chapters panel to help users quickly navigate your content.

Working with Interstitial Content

Present additional content alongside your main media presentation using HTTP Live Streaming support.

Presenting Content Proposals in tvOS

Display a preview of an upcoming media item at the conclusion of the currently playing media item.

{} Working with Overlays and Parental Controls in tvOS

Add interactive overlays, parental controls, and livestream channel flipping using a player view controller.

{} Supporting Continuity Camera in your tvOS app

Capture high-quality photos, video, and audio in your Apple TV app by connecting an iPhone or iPad as a continuity device.

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A view controller that displays content from a player and presents a native user interface to control playback.

`protocol` `AVPlayerViewControllerDelegate`

A protocol that defines the methods to implement to respond to player view controller events.

`class` `AVInterstitialTimeRange`

A time range in an audiovisual presentation for content with an interstitial designation, such as advertisements or legal notices.

`class` `AVNavigationMarkersGroup`

A set of markers for navigating playback of an audiovisual presentation.

`class` `AVContentProposalViewController`

A view controller that proposes content to watch next.

`class` `AVDisplayManager`

A tvOS management object that controls whether a TV switches modes to match the video's native mode.

`class` `AVContinuityDevicePickerViewController`

A view controller that provides an interface to a person so they can select and connect a continuity device to the system.

`protocol` `AVContinuityDevicePickerViewControllerDelegate`

An interface that responds to events from a continuity device picker view controller.

visionOS playback

{} Playing immersive media with AVKit

Adopt the system playback interface to provide an immersive video watching experience.

{} Creating a multiview video playback experience in visionOS

Build an interface that plays multiple videos simultaneously and handles transitions to different experience types gracefully.

Adopting the system player interface in visionOS

Provide an optimized viewing experience for watching 3D video content.

Trimming and exporting media in visionOS

Display standard controls in your app to edit the timeline of the currently playing media.

`class` `AVPlayerViewController`

A view controller that displays content from a player and presents a native user interface to control playback.

`protocol` `AVPlayerViewControllerDelegate`

A protocol that defines the methods to implement to respond to player view controller events.

`class` `AVExperienceController`

An object that controls video experiences.

`class` `AVMultiviewManager`

An object that manages viewing multiple videos at once.

`class` `AVGroupExperienceCoordinator`

An object that synchronizes viewing environment state across participants in a SharePlay session.

macOS playback and capture

Implementing Trimming in a macOS Player

Provide a QuickTime media-trimming experience in your macOS app.

`class` `AVPlayerView`

A view that displays content from a player and presents a native user interface to control playback.

`class` `AVCaptureView`

A view that displays standard user interface controls for capturing media data.

Multiplatform playback and capture

`struct` `VideoPlayer`

A view that displays content from a player and a native user interface to control playback.

Picture in Picture

{} Adopting Picture in Picture Playback in tvOS

Add advanced multitasking capabilities to your video apps by using Picture in Picture playback in tvOS.

Adopting Picture in Picture in a Standard Player

Add Picture in Picture (PiP) playback to your app using a player view controller.

Adopting Picture in Picture in a Custom Player

Add controls to your custom player user interface to invoke Picture in Picture (PiP) playback.

Adopting Picture in Picture for video calls

Add multitasking capability to your video-call apps by using Picture in Picture (PiP).

Accessing the camera while multitasking on iPad

Operate the camera in Split View, Slide Over, Picture in Picture, and Stage Manager modes.

`class` `AVPictureInPictureController`

A controller that responds to user-initiated Picture in Picture playback of video in a floating, resizable window.

Playback route selection

`class AVRoutePickerView`

A view that presents a list of nearby media receivers.

Metadata

AVKit Metadata Identifiers

Additional metadata that an asset contains.

Errors

`let AVKitErrorDomain: String`

The domain of errors the framework generates.

`struct AVKitError`

A structure that represents a framework error.

`enum Code`

Constants that identify framework error codes.

Macros

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