

[AVKit / AVExperienceController](#)

Class

AVExperienceController

An object that controls video experiences.

visionOS 2.0+

```
@MainActor  
final class AVExperienceController
```

Overview

Use this class to control, observe, and respond to experience changes for an [AVPlayerView Controller](#). A player view controller's presentation APIs will no longer be honored after attaching an experience controller. Using the other presentation APIs may preclude the use of this class.

Topics

Configuring the experience

```
var allowedExperiences: AVExperienceController.Experiences
```

The set of experiences the application supports.

```
var availableExperiences: AVExperienceController.Experiences
```

The allowed experiences that are available to use on the device at this time.

```
struct Experiences
```

A structure that represents a collection of experiences to use with an experience controller.

```
var experience: AVExperienceController.Experience
```

The current experience.

```
enum Experience
```

The types of experiences the system supports.

```
var configuration: AVExperienceController.Configuration
```

The configuration options per experience.

```
struct Configuration
```

A structure that stores per-experience configuration.

Transitioning experiences

```
func transition(to: AVExperienceController.Experience) async -> AVExperienceController.TransitionContext.TransitionResult
```

Transitions the video to a different experience.

Configuring a delegate

```
var delegate: (any AVExperienceController.Delegate)?
```

A delegate object for the experience controller.

```
protocol Delegate
```

A protocol that defines the methods to implement to respond to experience changes.

Structures

```
struct ExpandedConfiguration
```

A structure that specifies options for an expanded experience.

```
struct TransitionContext
```

The state of the transition provided to the delegate object.

Relationships

Conforms To

See Also

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 AVMultiviewManager`

An object that manages viewing multiple videos at once.

`class AVGGroupExperienceCoordinator`

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