

[RealityKit](#) / Images

API Collection

# Images

Present images and spatial scenes in your RealityKit experiences.

## Topics

### Images and spatial scenes

`struct ImagePresentationComponent`

A component that supports general image presentation.

`class Spatial3DImage`

A 3D spatial scene created from a 2D image.

### Image presentation viewing modes

`struct ViewingMode`

Image content's rendering mode.

### Image presentation events

`enum ImagePresentationEvents`

Events associated with viewing mode transitions for image presentation components.

### SwiftUI image presentation

`{}` Presenting images in RealityKit

## See Also

### Scene content

- {}** Hello World  
Use windows, volumes, and immersive spaces to teach people about the Earth.
- {}** Enabling video reflections in an immersive environment  
Create a more immersive experience by adding video reflections in a custom environment.
- {}** Creating a spatial drawing app with RealityKit  
Use low-level mesh and texture APIs to achieve fast updates to a person's brush strokes by integrating RealityKit with ARKit and SwiftUI.
- {}** Generating interactive geometry with RealityKit  
Create an interactive mesh with low-level mesh and low-level texture.
- {}** Combining 2D and 3D views in an immersive app  
Use attachments to place 2D content relative to 3D content in your visionOS app.
- {}** Transforming RealityKit entities using gestures  
Build a RealityKit component to support standard visionOS gestures on any entity.
- {}** Responding to gestures on an entity  
Respond to gestures performed on RealityKit entities using input target and collision components.
- ☰** Models and meshes  
Display virtual objects in your scene with mesh-based models.
- ☰** Materials, textures, and shaders  
Apply textures to the surface of your scene's 3D objects to give each object a unique appearance.
- ☰** Anchors  
Lock virtual content to the real world.
- ☰** Lights and cameras

Control the lighting and point of view for a scene.

☰ Content synchronization

Synchronize the contents of entities locally or across the network.

☰ Audio

Create personalized and realistic spatial audio experiences.

☰ Videos

Present videos in your RealityKit experiences.