

Documentation

◀ All Technologies

Visual Intelligence

Essentials

📄 Integrating your app with visual intelligence

{} Adopting App Intents to support system ex...

SemanticContentDescriptor

Accessing semantic content

PropertyParams labels: [String]

PropertyParams pixelBuffer: CVReadOnlyPixelBuffer?

Protocol conformance

PropertyParams static var defaultResolverSpecification: s...

PropertyParams SemanticContentDescriptor.Specification

PropertyParams SemanticContentDescriptor.ValueType

PropertyParams SemanticContentDescriptor.UnwrappedT...

App intents essentials

📄 Making actions and content discoverable a...

📄 Creating your first app intent

≡ Filter

/

[Visual Intelligence](#) / [SemanticContentDescriptor](#)

Structure

SemanticContentDescriptor

A type that represents a scene that visual intelligence captures, like a screenshot, photo, or photo and video stream.

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+

struct SemanticContentDescriptor

Mentioned in

📄 [Integrating your app with visual intelligence](#)

Topics

Accessing semantic content

PropertyParams labels: [String]

A list of labels that visual intelligence uses to classify items onscreen or visual intelligence camera.

PropertyParams pixelBuffer: CVReadOnlyPixelBuffer?

The pixel buffer that visual intelligence captures.

Protocol conformance

PropertyParams static var defaultResolverSpecification: some Resolver Specification

A default implementation of an internal type that the App Intents framework uses to convert data values with resolvers.

PropertyParams typealias Specification

A type that specifies how the system resolves a semantic content descriptor.

PropertyParams typealias ValueType

A type that represents the value of a semantic content descriptor.

PropertyParams typealias UnwrappedType

A type that represents the unwrapped value of a semantic content descriptor.

Relationships

Conforms To

PropertyParams Copyable

PropertyParams CustomLocalizedStringResourceConvertible

PropertyParams CustomStringConvertible

PropertyParams DisplayRepresentable

PropertyParams InstanceDisplayRepresentable

PropertyParams PersistentlyIdentifiable

PropertyParams Sendable

PropertyParams SendableMetatype

PropertyParams TypeDisplayRepresentable

See Also

Essentials

📄 [Integrating your app with visual intelligence](#)

Enable people to find app content that matches their surroundings or objects onscreen with visual intelligence.

{} [Adopting App Intents to support system experiences](#)

Create app intents and entities to incorporate system experiences such as Spotlight, visual intelligence, and Shortcuts.

Apple > Developer > Documentation

Platforms	Topics & Technologies	Resources	Programs
iOS	Accessibility	Documentation	Apple Developer Program
iPadOS	Accessories	Tutorials	Apple Developer Enterprise Program
macOS	App Extension	Downloads	App Store Small Business Program
tvOS	App Store	Forums	MFi Program
visionOS	Audio & Video	Videos	News Partner Program
watchOS	Augmented Reality		Video Partner Program
Tools	Design	Support	Security Bounty Program
Swift	Distribution	Support Articles	Security Research Device Program
SwiftUI	Education	Contact Us	
Swift Playground	Fonts	Bug Reporting	
TestFlight	Games	System Status	Meet with Apple
Xcode	Health & Fitness	Apple Developer	Apple Developer Centers
Xcode Cloud	In-App Purchase	App Store Connect	App Store Awards
SF Symbols	Localization	Certificates, IDs, & Profiles	Apple Design Awards
	Maps & Location	Feedback Assistant	Apple Developer Academies
	Machine Learning & AI		WWDC
	Open Source		
	Security		
	Safari & Web		

To submit feedback on documentation, visit [Feedback Assistant](#).

Light Dark Auto