

< All Technologies

Visual Intelligence

Essentials

- 📄 Integrating your app with visual intelligence
- { } Adopting App Intents to support system ex...

📄 SemanticContentDescriptor

Accessing semantic content

- 📄 let labels: [String]
- 📄 var pixelBuffer: CVReadOnlyPixelBuffer?

Protocol conformance

- 📄 static var defaultResolverSpecification: s...
- 📄 SemanticContentDescriptor.Specification
- 📄 SemanticContentDescriptor.ValueType
- 📄 SemanticContentDescriptor.UnwrappedT...

App intents essentials

- 📄 Making actions and content discoverable a...
- 📄 Creating your first app intent

≡ Filter

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[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

```
let labels: [String]

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

var pixelBuffer: CVReadOnlyPixelBuffer?

The pixel buffer that visual intelligence captures.
```

Protocol conformance

```
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.

typealias Specification

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

typealias ValueType

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

typealias UnwrappedType

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

Relationships

Conforms To

- [Copyable](#)
- [CustomLocalizedStringResourceConvertible](#)
- [CustomStringConvertible](#)
- [DisplayRepresentable](#)
- [InstanceDisplayRepresentable](#)
- [PersistentlyIdentifiable](#)
- [Sendable](#)
- [SendableMetatype](#)
- [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.

Platforms

- iOS
- iPadOS
- macOS
- tvOS
- visionOS
- watchOS
- Tools
- Swift
- SwiftUI
- Swift Playground
- TestFlight
- Xcode
- Xcode Cloud
- SF Symbols

Topics & Technologies

- Accessibility
- Accessories
- App Extension
- App Store
- Audio & Video
- Augmented Reality
- Design
- Distribution
- Education
- Fonts
- Games
- Health & Fitness
- In-App Purchase
- Localization
- Maps & Location
- Machine Learning & AI
- Open Source
- Security
- Safari & Web

Resources

- Documentation
- Tutorials
- Downloads
- Forums
- Videos
- Support
- Support Articles
- Contact Us
- Bug Reporting
- System Status
- Account
- Apple Developer
- App Store Connect
- Certificates, IDs, & Profiles
- Feedback Assistant

Programs

- Apple Developer Program
- Apple Developer Enterprise Program
- App Store Small Business Program
- WiFi Program
- News Partner Program
- Video Partner Program
- Security Bounty Program
- Security Research Device Program
- Events
- Meet with Apple
- Apple Developer Centers
- App Store Awards
- Apple Design Awards
- Apple Developer Academies
- WWDC