

[App Intents](#) / [AppEnum](#)

## Protocol





# AppEnum

An interface to express that a custom type has a predefined, static set of valid values to display.

iOS 16.0+ | iPadOS 16.0+ | Mac Catalyst | macOS 13.0+ | tvOS 16.0+ | visionOS | watchOS 9.0+

```
protocol AppEnum : AppValue, StaticDisplayRepresentable, RawRepresentable where Self.RawValue : LosslessStringConvertible
```

## Mentioned in

-  Integrating actions with Siri and Apple Intelligence
-  Responding to the Action button on Apple Watch Ultra
-  Adding parameters to an app intent
-  Integrating custom data types into your intents

## Overview

Adopt the [AppEnum](#) protocol in a type that has a known set of valid values. You might use this protocol to specify that a variable of one of your intents has a fixed set of possible values. For example, you might use a variable to specify whether to navigate to the next or previous track in a music playlist.

Because this type conforms to the [StaticDisplayRepresentable](#) protocol, provide a string-based representation of your type's values in your implementation. For example, provide descriptions for each case of an enum type in the inherited [caseDisplayRepresentations](#) property.

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# Topics

## Resolving the type

```
static var defaultResolverSpecification: some ResolverSpecification
```

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# Relationships

## Inherits From

AppValue  
CaseDisplayRepresentable  
CaseIterable  
CustomLocalizedStringResourceConvertible  
Equatable  
Hashable  
PersistentlyIdentifiable  
RawRepresentable  
Sendable  
SendableMetatype  
StaticDisplayRepresentable  
TypeDisplayRepresentable

## Inherited By

AssistantEnum, AssistantSchemaEnum, URLRepresentableEnum

## Conforming Types

StringSearchScope, VideoCategory

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## See Also

## Entity content

`class` EntityProperty

A property wrapper that exposes the associated property to the system.

`protocol` AppValue

An interface that describes conceptual types you use in app intents.

`protocol` AnyIntentValue

A type the system uses to access a parameter or property value.

`protocol` URLRepresentableEnum

An app enum with a URL representation.