

[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.

Topics

Resolving the type

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

Relationships

Inherits From

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

Inherited By

AssistantEnum, AssistantSchemaEnum, URLRepresentableEnum

Conforming Types

StringSearchScope, VideoCategory

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.