

[Foundation](#) / `AttributeDynamicLookup`

## Enumeration

# AttributeDynamicLookup

A type to support dynamic member lookup of attributes and containers.

iOS 15.0+ | iPadOS 15.0+ | Mac Catalyst 15.0+ | macOS 12.0+ | tvOS 15.0+ | visionOS 1.0+ | watchOS 8.0+

```
@dynamicMemberLookup @frozen
enum AttributeDynamicLookup
```

## Overview

This type allows attribute owners to add extensions that enable dynamic member lookup access to attributes. Supporting types — including [AttributedString](#), [AttributedSubstring](#), and [AttributeContainer](#) — gain dynamic lookup support by extending this type.

You can enable dynamic member lookup for your own [AttributedStringKey](#) attributes by defining them as implementations, collecting them into an [AttributeScope](#) and extending [AttributeDynamicLookup](#), like in the following example:

```
public extension AttributeDynamicLookup {
    subscript<T: AttributedStringKey>(dynamicMember keyPath: KeyPath<AttributeScope, T>)
        return self[T.self]
}
}
```

## Topics

## Accessing Key Values

```
subscript<T>(T.Type) -> T
```

Returns an attributed string key that corresponds to a specified type.

## Accessing Framework Attribute Scopes

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.Foundation  
Attributes, T>) -> T
```

Returns the attributed string key for a specified Foundation key path.

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.Foundation  
Attributes.NumberFormatAttributes, T>) -> T
```

Returns the attributed string key for a specified Foundation number format key path.

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.SwiftUIAttributes  
, T>) -> T
```

Returns the attributed string key for a specified SwiftUI key path.

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.UIKitAttributes,  
T>) -> T
```

Returns the attributed string key for a specified UIKit key path.

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.AppKitAttributes,  
T>) -> T
```

Returns the attributed string key for a specified AppKit key path.

## Subscripts

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.Foundation  
Attributes.LocalizedStringArgumentAttributes, T>) -> T
```

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.SpeechAttributes,  
T>) -> T
```

```
subscript<T>(dynamicMember _: KeyPath<AttributeScopes.Accessibility  
Attributes, T>) -> T
```

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# Relationships

## Conforms To

BitwiseCopyable, Copyable

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## See Also

### Using Defined Attributes

- `enum AttributeScopes`  
Collections of attributes that system frameworks define.
- `struct ScopedAttributeContainer`  
An attribute container that allows dynamic member lookup of its contents within the specified attribute scope.