

[ARKit](#) / DataProvider

Protocol

DataProvider

A source of live data from ARKit.

macOS 26.0+ | visionOS 1.0+

```
protocol DataProvider : AnyObject, CustomStringConvertible, Sendable
```

Overview

Most providers supply an asynchronous sequence of updated anchors for the provider's data type. For example, a [HandTrackingProvider](#) instance's [anchorUpdates](#) property gives updates over time for hand anchors.

Topics

Inspecting a data provider

```
var state: DataProviderState
```

The current status of data coming from this provider.

Required

Inspecting a data provider type

```
static var requiredAuthorizations: [ARKitSession.AuthorizationType]
```

The kinds of authorization you need to use a particular data provider type.

Required

`static var isSupported: Bool`

A Boolean value that indicates whether the current runtime environment supports a particular provider type.

Required

Relationships

Inherits From

CustomStringConvertible, Sendable, SendableMetatype

Conforming Types

AccessoryTrackingProvider
BarcodeDetectionProvider
CameraFrameProvider
CameraRegionProvider
EnvironmentLightEstimationProvider
HandTrackingProvider
ImageTrackingProvider
ObjectTrackingProvider
PlaneDetectionProvider
RoomTrackingProvider
SceneReconstructionProvider
SharedCoordinateSpaceProvider
StereoPropertiesProvider
WorldTrackingProvider

See Also

visionOS



Setting up access to ARKit data

Check whether your app can use ARKit and respect people's privacy.

`class ARKitSession`

The main entry point for receiving data from ARKit.

`protocol Anchor`

The identity, location, and orientation of an object in world space.

☰ ARKit in visionOS

Create immersive augmented reality experiences.