Structure

RecognizeAnimalsRequest

A request that recognizes animals in an image.

iOS 18.0+ | iPadOS 18.0+ | macOS 15.0+ | tvOS 18.0+ | visionOS 2.0+

```
struct RecognizeAnimalsRequest
```

Overview

This request generates a collection of <u>RecognizedObjectObservation</u> objects that describe the animals the request detects.

Topics

Creating a request

`init(RecognizeAnimalsRequest.Revision?)`
    Creates an animal-recognition request.

Getting the revision

`let revision: RecognizeAnimalsRequest.Revision`
    The algorithm or implementation the request uses.

`static let supportedRevisions: [RecognizeAnimalsRequest.Revision]`
    The collection of revisions the request supports.

```
enum Revision
```
A type that describes the algorithm or implementation that the request performs.

Inspecting a request

```
var supportedAnimals: [RecognizeAnimalsRequest.Animal]
```
The collection of animals that the request can detect.

```
enum Animal
```
An identifier for a recognizable animal.

Performing a request

```
func perform(on: URL, orientation: CGImagePropertyOrientation?) async
throws -> Self.Result
```
Performs the request on an image URL and produces observations.

Required Default implementations provided.

```
func perform(on: Data, orientation: CGImagePropertyOrientation?) async
throws -> Self.Result
```
Performs the request on image data and produces observations.

Required Default implementations provided.

```
func perform(on: CGImage, orientation: CGImagePropertyOrientation?)
async throws -> Self.Result
```
Performs the request on a Core Graphics image and produces observations.

Required Default implementations provided.

```
func perform(on: CVPixelBuffer, orientation: CGImagePropertyOrientation
?) async throws -> Self.Result
```
Performs the request on a pixel buffer and produces observations.

Required Default implementations provided.

```
func perform(on: CMSampleBuffer, orientation: CGImageProperty
Orientation?) async throws -> Self.Result
```
Performs the request on a Core Media buffer and produces observations.

Required Default implementations provided.

```
func perform(on: CIImage, orientation: CGImagePropertyOrientation?)
async throws -> Self.Result
```
Performs the request on a Core Image image and produces observations.

Required Default implementations provided.

struct `RecognizedObjectObservation`

An observation with an array of classification labels that classify the recognized object.

Relationships

Conforms To

CustomStringConvertible
Equatable
Hashable
ImageProcessingRequest
Sendable
SendableMetatype
VisionRequest

See Also

Animal detection

struct `DetectAnimalBodyPoseRequest`

A request that detects an animal body pose.