Class

# ImageRequestHandler

An object that processes one or more image-analysis requests pertaining to a single image.

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

```
final class ImageRequestHandler
```

## Overview

Instantiate this handler to perform Vision requests on a single image. You specify the image, and then call <u>perform(_:)</u> to begin executing the request.

## Topics

### Creating a request handler

convenience **init**(URL, **orientation**: CGImagePropertyOrientation?)

Creates a handler for performing requests on an image at the specified URL.

convenience **init**(Data, **orientation**: CGImagePropertyOrientation?)

Creates a handler for performing requests on an image contained in a data object.

convenience **init**(CGImage, **orientation**: CGImagePropertyOrientation?)

Creates a handler for performing requests on Core Graphics images.

```
convenience init(CVPixelBuffer, depthData: AVDepthData?, orientation:
CGImagePropertyOrientation?)
```
Creates a handler for performing requests on a Core Video pixel buffer.

```
convenience init(CMSampleBuffer, depthData: AVDepthData?, orientation:
CGImagePropertyOrientation?)
```
Creates a request handler that performs requests on an image contained within a sample buffer.

```
convenience init(CIImage, orientation: CGImagePropertyOrientation?)
```
Creates a handler for performing requests on Core Image images.

## Performing the request

```
func perform<each T>(repeat each T) async throws -> (repeat (each T).
Result)
```
Performs one or more framework requests on the handler's image.

```
func perform<T>(T) async throws -> T.Result
```
Performs a framework request on the handler's image.

```
func performAll(some Collection<any VisionRequest>) -> some Async
Sequence<VisionResult, Never>
```
Schedules a collection of framework requests to perform on the handler's image.

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# Relationships

## Conforms To

`Sendable`, `SendableMetatype`

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# See Also

## Still-image analysis

{} Classifying images for categorization and search

Analyze and label images using a Vision classification request.

struct ClassifyImageRequest

A request to classify an image.

protocol ImageProcessingRequest

A type for image-analysis requests that focus on a specific part of an image.

protocol VisionRequest

A type for image-analysis requests.

protocol VisionObservation

A type for objects produced by image-analysis requests.

struct DetectLensSmudgeRequest

A request that detects a smudge on a lens from an image or video frame capture.

struct SmudgeObservation

An observation that provides an overall score of the presence of a smudge in an image or video frame capture.