

[Vision](#) / `GenerateImageFeaturePrintRequest`

Structure

GenerateImageFeaturePrintRequest

An image-based request to generate feature prints from an image.

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

```
struct GenerateImageFeaturePrintRequest
```

Overview

This request generates an [FeaturePrintObservation](#) object with the features in an image.

Topics

Creating a request

```
init(GenerateImageFeaturePrintRequest.Revision?)
```

Creates an image-feature print request.

Getting the revision

```
let revision: GenerateImageFeaturePrintRequest.Revision
```

The algorithm or implementation the request uses.

```
static let supportedRevisions: [GenerateImageFeaturePrintRequest.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 cropAndScaleAction: ImageCropAndScaleAction

An optional setting that tells the algorithm how to scale an input image before generating the result.

enum ImageCropAndScaleAction

A scale to apply to an input image before performing a request.

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 FeaturePrintObservation
```

An observation that provides the recognized feature print.

Relationships

Conforms To

CustomStringConvertible

Equatable

Hashable

ImageProcessingRequest

Sendable

SendableMetatype

VisionRequest

See Also

Image feature print and background removal

```
struct GenerateForegroundInstanceMaskRequest
```

A request that generates an instance mask of noticeable objects to separate from the background.