

[Vision](#) / DetectTextRectanglesRequest

Structure

DetectTextRectanglesRequest

An image-analysis request that finds regions of visible text in an image.

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

```
struct DetectTextRectanglesRequest
```

Overview

This request generates a collection of [TextObservation](#) objects that describe each text region the request detects.

Topics

Creating a request

```
init(DetectTextRectanglesRequest.Revision?)
```

Creates a text rectangles detection request.

Getting the revision

```
let revision: DetectTextRectanglesRequest.Revision
```

The algorithm or implementation the request uses.

```
static let supportedRevisions: [DetectTextRectanglesRequest.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 reportCharacterBoxes: Bool`

A Boolean value that indicates whether the request detects character-bounding boxes.

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: CGImagePropertyOrientation?) 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 TextObservation`

Information about regions of text that an image-analysis request detects.

Relationships

Conforms To

CustomStringConvertible
Equatable
Hashable
ImageProcessingRequest
Sendable
SendableMetatype
VisionRequest

See Also

Text detection

- `{}` Recognizing tables within a document
Scan a document containing a contact table and extract the content within the table in a formatted way.
- `{}` Locating and displaying recognized text
Perform text recognition on a photo using the Vision framework's text-recognition request.

`struct RecognizeDocumentsRequest`

An image-analysis request to scan an image of a document and provide information about its structure.

`struct DocumentObservation`

Information about the sections of content that an image-analysis request detects in a document.

`struct RecognizeTextRequest`

An image-analysis request that recognizes text in an image.