Structure

PixelBufferObservation

An object that represents an image that an image-analysis request produces.

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

```
struct PixelBufferObservation
```

Topics

Creating an observation

`init?(VNPixelBufferObservation)`

Creates a pixel buffer observation.

Inspecting an observation

`enum RequestDescriptor`

A type that describes the request and revision combination.

`var cgImage: CGImage`

A Core Graphics image created from the pixel buffer observation.

`var pixelFormat: OSType`

The four-character code that identifies the pixel format.

`var size: CGSize`

The size of the image.

Getting pixel data

```
func pixel(at: NormalizedPoint) -> Float
```
    Returns the pixel data for the specified location in the image.

Accessing the memory

```
func withUnsafePointer<R>((UnsafeRawPointer) -> R) -> R
```
    Invokes the given closure with a pointer to the given argument.

Relationships

Conforms To

```
CustomStringConvertible
Decodable
Encodable
Equatable
Hashable
Sendable
SendableMetatype
VisionObservation
```

See Also

Machine learning image analysis

```
struct CoreMLRequest
```
    An image-analysis request that uses a Core ML model to process images.

```
struct CoreMLFeatureValueObservation
```
    An object that represents a collection of key-value information that a Core ML image-analysis request produces.

struct ClassificationObservation

An object that represents classification information that an image-analysis request produces.