API Collection

Frame processing

An interface for accessing a range of different video-processing features.

Overview

A `Configuration` object defines each processor implementation by passing initialization and configuration parameters for the processor, and a `Parameter` object provides the parameters for each individual processing operation.

Topics

Frame processor

`{}` **Enhancing your app with machine learning-based video effects**

Add powerful effects to your videos using the VideoToolbox VTFrameProcessor API.

`class` **VTFrameProcessor**

A class that creates a new frame processor for the configured video effect.

`class` **VTFrameProcessorFrame**

An object that wraps video frames to send to the processor, as source, reference, or output frames.

`protocol` **VTFrameProcessorConfiguration**

A protocol that describes the configuration of a processor to use during a video processing session.

`protocol` `VTFrameProcessorParameters`

The base protocol for input and output processing parameters for a frame processor implementation.

Frame rate conversion

`class` `VTFrameRateConversionConfiguration`

An object that enables the frame rate conversion on a frame processing session.

`class` `VTFrameRateConversionParameters`

An object that contains the required input and output parameters to run a frame rate conversion processor on a frame.

Optical flow

`class` `VTFrameProcessorOpticalFlow`

A class to wrap bidirectional optical flow to send to the processor.

`class` `VTOpticalFlowConfiguration`

A configuration object that enables optical flow on a frame processing session.

`class` `VTOpticalFlowParameters`

An object that describes frame-level optical flow parameters.

Motion blur

`class` `VTMotionBlurConfiguration`

A configuration object to enable motion blur on a frame processing session.

`class` `VTMotionBlurParameters`

This object contains both input and output parameters necessary to run the motion blur processor on a frame.

Errors

`struct` `VTFrameProcessorError`

Error codes generated by a frame processor.

`let` `VTFrameProcessorErrorDomain:` `String`

The error domain of Video Toolbox errors.