LEARNING

avfoundation

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About

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Chapter 1: Getting started with avfoundation

Remarks

This section provides an overview of what avfoundation is, and why a developer might want to use it.

It should also mention any large subjects within avfoundation, and link out to the related topics. Since the Documentation for avfoundation is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

A minimal setup for camera output preview (Swift 2, Swift 3)

```
import UIKit
import AVFoundation

class ViewController: UIViewController {
    var session: AVCaptureSession?
    var cameraPreviewLayer: AVCaptureVideoPreviewLayer?

    override func viewDidLoad() {
        super.viewDidLoad()
        setupSession()
        if let cameraPreviewLayer = AVCaptureVideoPreviewLayer(session: session) {
            view.layer.addSublayer(cameraPreviewLayer)
            self.cameraPreviewLayer = cameraPreviewLayer
            session?.startRunning()
        }
    }

    func setupSession() {
        session = AVCaptureSession()
        //setup input
        let device =  AVCaptureDevice.defaultDevice(withMediaType: AVMediaTypeVideo)
        do {
            let input = try AVCaptureDeviceInput(device: device)
            if session?.canAddInput(input) == true {
                session?.addInput(input)
            }
        } catch {
            print("An error occured: \(error.localizedDescription)")
        }


        //setup output
        let output = AVCaptureVideoDataOutput()
        output.videoSettings = [kCVPixelBufferPixelFormatTypeKey as AnyHashable:
kCVPixelFormatType_32BGRA]
        if session?.canAddOutput(output) == true {
```

```
            session?.addOutput(output)
        }

    }

    override func viewDidLayoutSubviews() {
        super.viewDidLayoutSubviews()
        self.cameraPreviewLayer?.frame = self.view.layer.bounds
    }
}
```

Read Getting started with avfoundation online:
https://riptutorial.com/avfoundation/topic/10603/getting-started-with-avfoundation

Credits

S. No	Chapters	Contributors
1	Getting started with avfoundation	Community, ninjaproger