

Image2MultiArray
MultiArray2Image



Capturing and Displaying Photos

Capturing and Saving a Photo

Take photos with the camera, add them to your photo library, and display them in your app.

Smile! Click! A lot happens in quick succession when you take a photo. 📷

Microsoft Excel

8:43

84



指南針



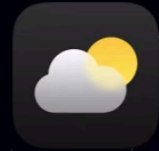
訊息



地圖



相機



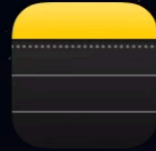
天氣



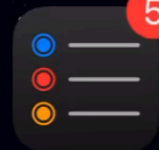
時鐘



TV



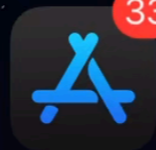
備忘錄



提醒事項



iTunes Store



App Store



書籍



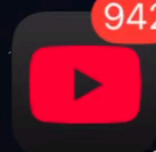
設定



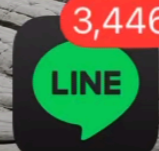
Pages



行事曆



YouTube



LINE



翻譯



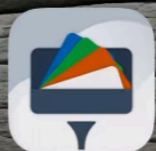
Messenger



家庭



語音備忘錄



高朋卡

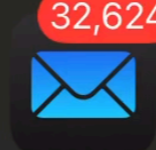


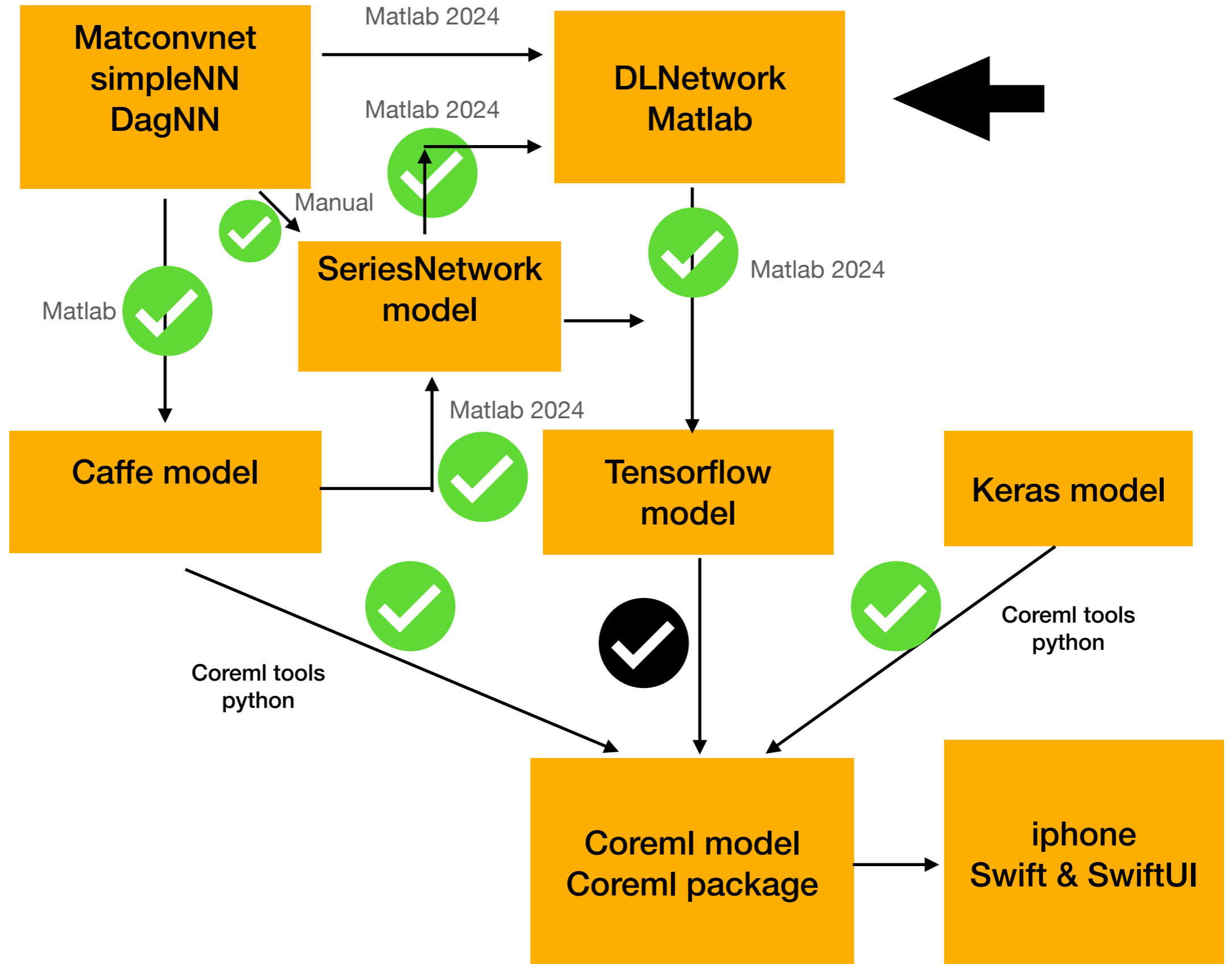
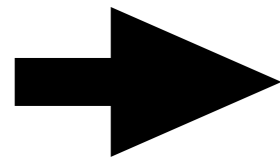
swiftDataMa...



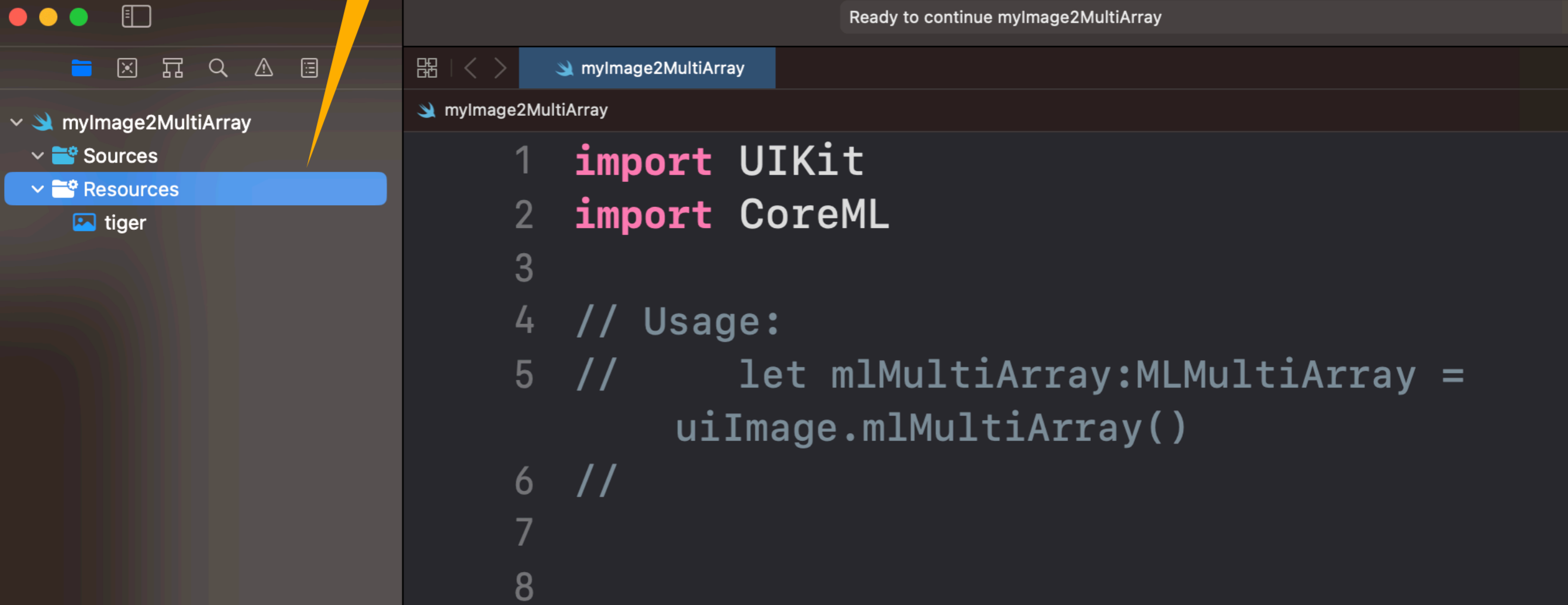
CapturingPh...

Q 搜尋





Drag an image file to Resources



```
let sourceImage = self
```

w 527 h 361



Center cropped image

```
return imgCropped
```

w 361 h 361





572

105

105

361

```
extension UIImage {  
func cropCenter() -> UIImage?
```

```
func cropCenter() -> UIImage? {  
    let sourceImage = self  
    // The shortest side  
    let sideLength = min(  
        sourceImage.size.width,  
        sourceImage.size.height  
    )
```

```
    let sourceSize = sourceImage.size  
    let xOffset = (sourceSize.width - sideLength) / 2.0  
    let yOffset = (sourceSize.height - sideLength) / 2.0
```

```
    // The cropRect is the rect of the image to keep,  
    // in this case centered  
    let cropRect = CGRect(  
        x: xOffset,  
        y: yOffset,  
        width: sideLength,  
        height: sideLength  
    ).integral
```

```
// Center crop the image
let sourceCGImage = sourceImage.cgImage!
let croppedCGImage = sourceCGImage.cropping(
    to: cropRect
)!
// Use the cropped cgImage to initialize a cropped
// UIImage with the same image scale and orientation
let imgCropped = UIImage(
    cgImage: croppedCGImage,
    scale: sourceImage.imageRendererFormat.scale,
    orientation: sourceImage.imageOrientation
)
return imgCropped
}
```


```
48 if let img = UIImage(named: "tiger") {
49     print(img.size)
50     print(img.scale)
51     if let imgCropped = img.cropCenter(){
52         print(imgCropped.size)
53     }
54 }
```

myImageCrop2025 tiger monkey

myImageCrop2025

- Sources
- Resources
 - monkey
 - tiger

```
1 import UIKit
2
3 extension UIImage {
4     func cropCenter() -> UIImage? {
5         let sourceImage = self
6         // The shortest side
7         let sideLength = min(
8             sourceImage.size.width,
9             sourceImage.size.height
10        )
11        let sourceSize = sourceImage.size
```



```
□
(450.0, 301.0)
1.0
(302.0, 301.0)
```

32

return imgCropped



33

}