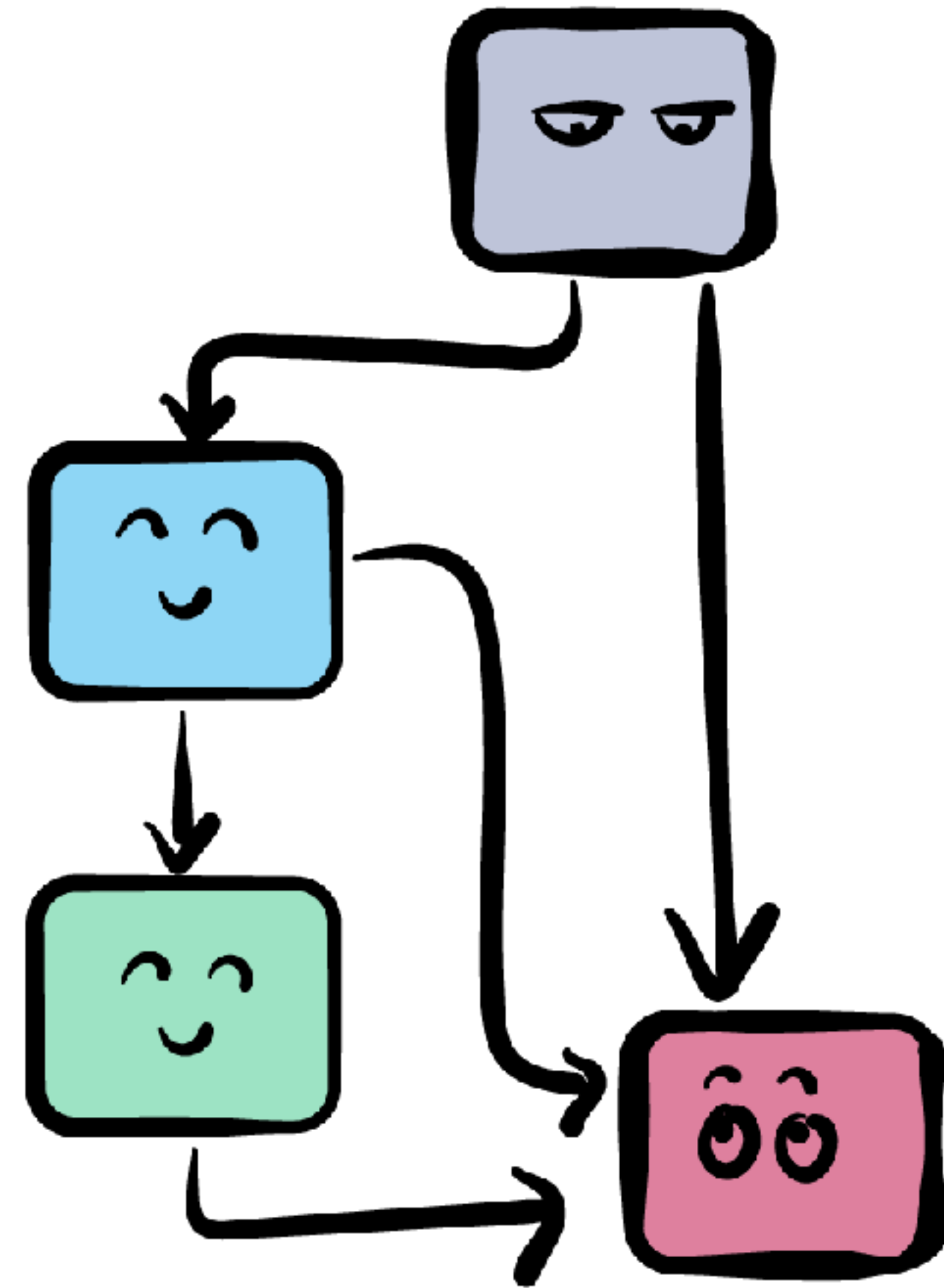


»»» iOS ««« CONCURRENCY WITH GCD & OPERATIONS



PART 3: SIMPLE USE CASES

ALREADY ASYNCHRONOUS: NO PROBLEM!

```
let downloadSession = URLSession(configuration: .ephemeral)
for url in urls {
    let _ = downloadSession.dataTask(with: url) { data, _, _ in
        self.image = UIImage(data: data!)
        DispatchQueue.main.async {
            // update UI with image
        }
    }
}
```



ALREADY ASYNCHRONOUS: NO PROBLEM!

```
loadData { (data) in
    loadImages(data, callback: { (images) in
        processImages(images, callback: { (result) in
            secondaryProcessing(result, callback: { (output) in
                DispatchQueue.main.async {
                    print("This is your processed data:")
                    for value in output {
                        print(value)
                    }
                }
            })
        })
    })
}
```

MAKE SYNCHRONOUS ASYNCHRONOUS

```
open func dataTask(with url: URL, completionHandler: @escaping  
    (Data?, URLResponse?, Error?) -> Swift.Void) -> URLSessionDataTask
```

```
public func asyncSyncFunction(_ input: inputType, runQueue: DispatchQueue,  
    completionQueue: DispatchQueue,  
    completion:@escaping (resultType, Error) -> ()) {  
    runQueue.async {  
        let result = syncFunction(input)  
        completionQueue.async {  
            completion(result, error)  
        }  
    }  
}
```

CHALLENGE TIME!

