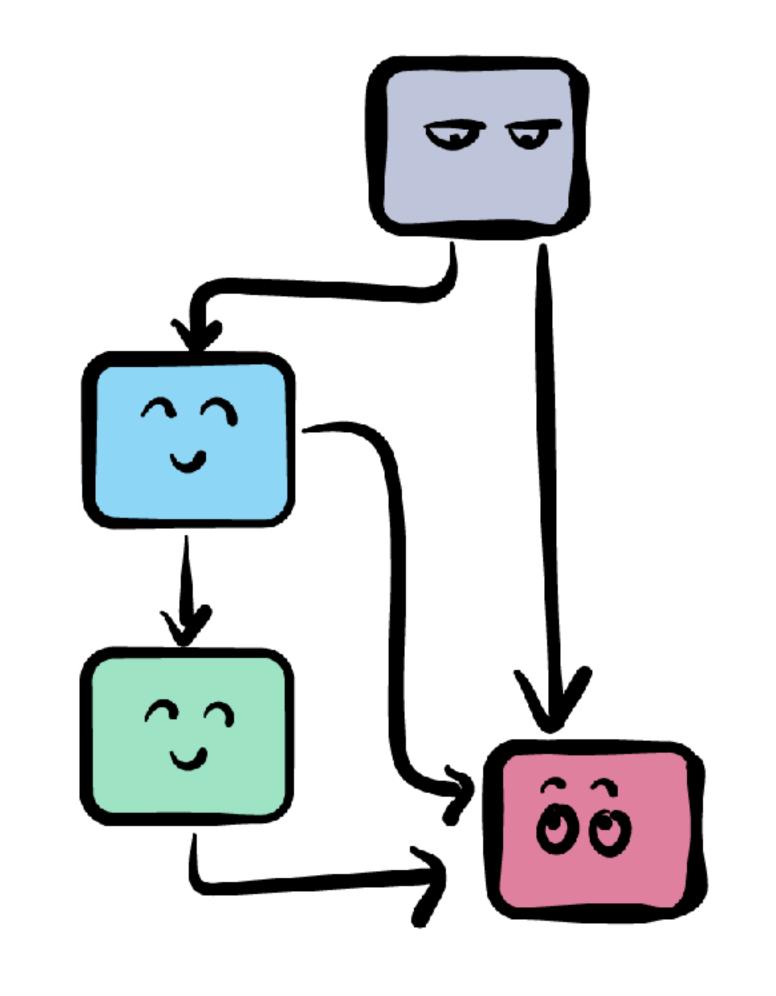
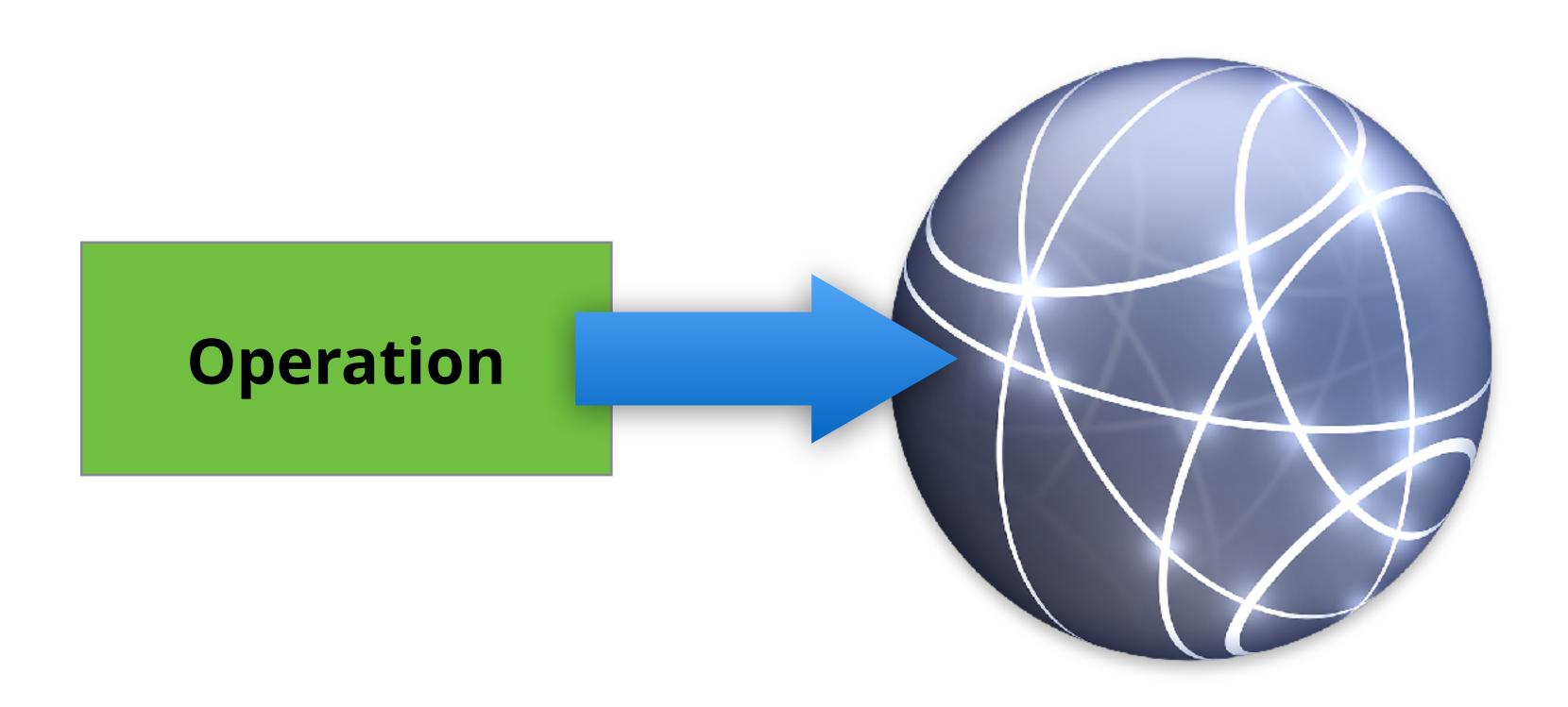
))))(S CONCURRENCY WITH GCD 3 OPERATIONS



PART 7: ASYNCOPERATION



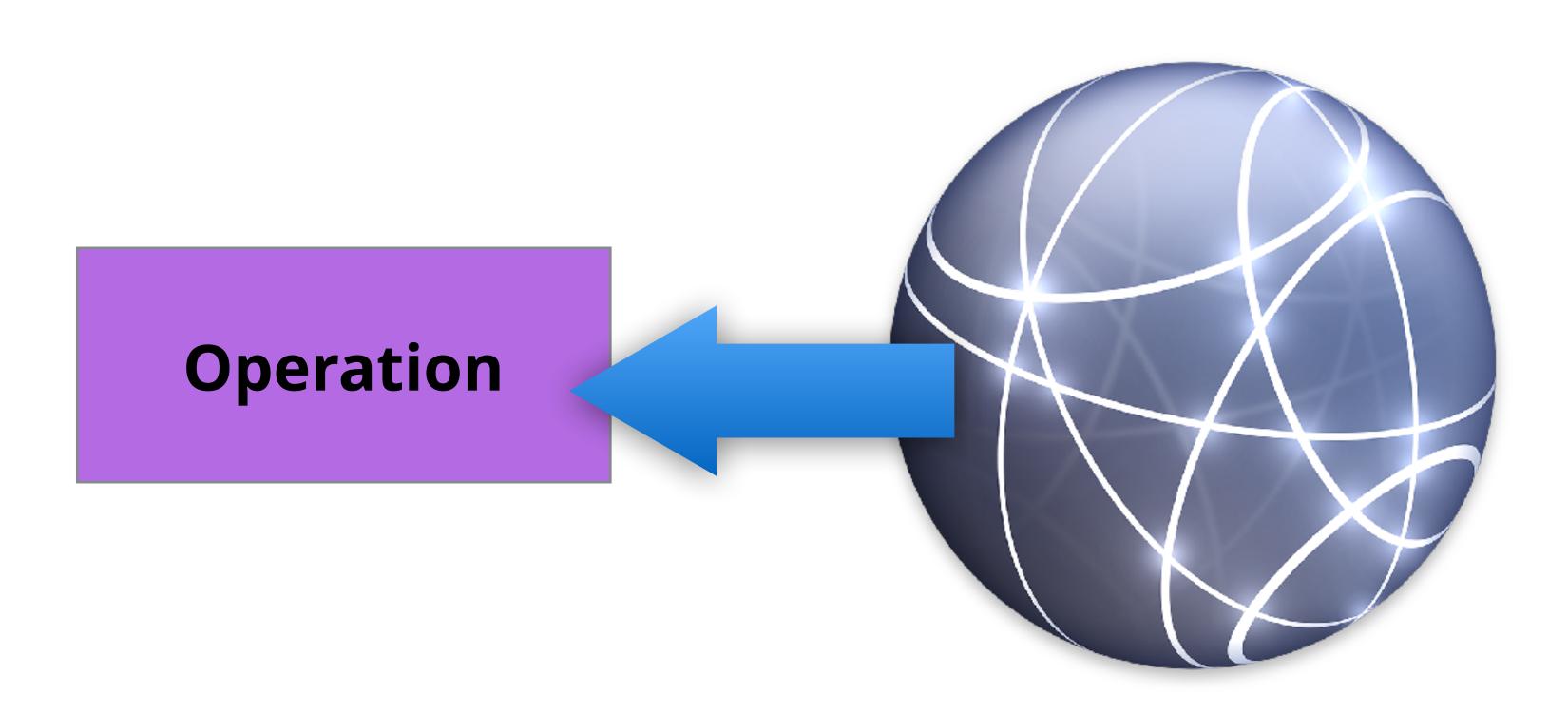














```
open class Operation : NSObject {
  open func start()
  open var isAsynchronous: Bool { get }
  open var isReady: Bool { get }
  open var isExecuting: Bool { get }
  open var isFinished: Bool { get }
  ...
}
```

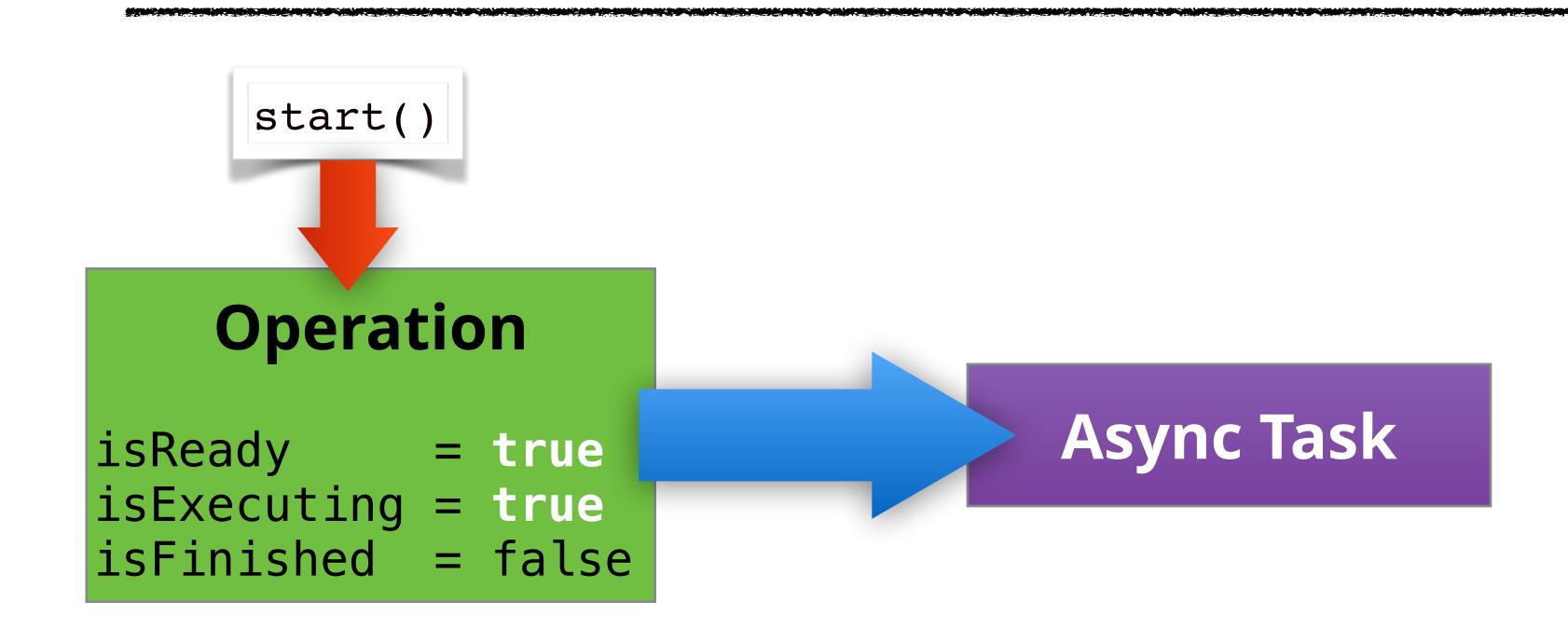


```
isReady = false
isExecuting = false
isFinished = false
```



```
isReady = true
isExecuting = false
isFinished = false
```







Operation

```
isReady = true
isExecuting = true
isFinished = false
```

Async Task



Operation

```
isReady = true
isExecuting = false
isFinished = true
```

Async Task



KYO NOTIFICATIONS

```
var state = State.Ready {
 willSet {
    willChangeValueForKey(newValue keyPath)
    willChangeValueForKey(state keyPath)
  didSet {
    didChangeValueForKey(oldValue keyPath)
    didChangeValueForKey(state keyPath)
```

CHALLENGE TIME!

```
open func simulateAsyncNetworkLoadImage(named: String?,
   callback: @escaping (UIImage?) -> ()) {
   OperationQueue().addOperation {
     let image = simulateNetworkLoadImage(named: named)
     callback(image)
   }
}
```

