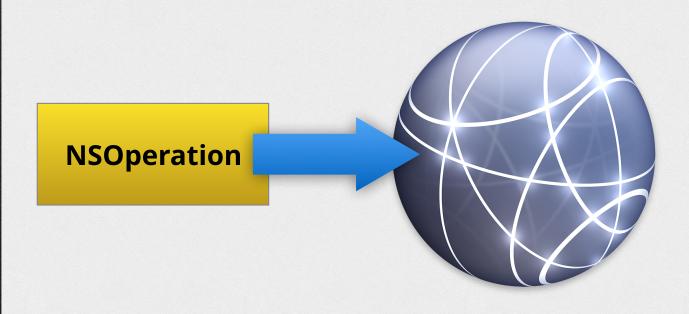
Introducing

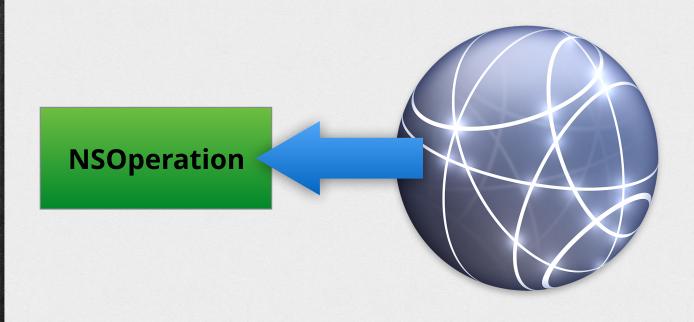
Concurrency

Asynchronous Operations









```
public class NSOperation : NSObject {
  public func start()

  public var asynchronous: Bool { get }

  public var ready: Bool { get }
  public var executing: Bool { get }
  public var finished: Bool { get }
}
```

```
ready = false
executing = false
finished = false
```

```
ready = true
executing = false
finished = false
```





Async Task

NSOperation

ready = true
executing = true
finished = false

Async Task

NSOperation

ready = true
executing = false
finished = true

Async Task

KVO Notifications

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

It's Challenge Time!

```
public func asyncAdd(lhs: Int, rhs: Int, callback: (Int) -> ()) {
  callback(lhs + rhs)
}
```