WWDC 2019: Hidden Amazement

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LINE App Dev 2

App Store

- watchOS 6 Apps are not included in iOS cellular download limit
 - Older watchOS gets app thinning
- Review Guidelines
 - No 3rd party tracking in apps for Kids
 - No digital commerce in HTML games (inside apps)
 - "Sign in with Apple" *mandatory* if you support 3rd party sign in
- App Deletions can be viewed in App Store Analytics

Dependency Injection with UIStoryboard

```
// Link via Segue
@IBSequeAction func followMySeque(coder: NSCoder) -> MyViewController {
    return MyViewController(coder: coder, name: "Initial")
// Instantiate via Code
let initialVC = storyboard?.instantiateInitialViewController(creator:
{ coder -> UIViewController? in
    let viewController = MyViewController(coder: coder, name: "Initial")
    return viewController
})
let followupVC = storyboard?.instantiateViewController(identifier: "MyViewController",
                                                        creator:
{ coder -> UIViewController? in
    let myController = MyViewController(coder: coder, name: "ViewController Jr.")
    return myController
})
```

RelativeDateFormatter

```
let formatter = RelativeDateTimeFormatter()
let relativeTime = formatter.localizedString(for: dayOfLegend!, relativeTo: now)
let intervalTime = formatter.localizedString(fromTimeInterval: 300)
let timeByComponents = formatter.localizedString(from: untilWeekend)
```

let famousWords = "ビッグウェーブさん was \(relativeTime)"

ビッグウェーブさん was 10 years ago

let prediction = "My presentation will end \(intervalTime)"

My presentation will end in 5 minutes

let betterPrediction = "The weekend is \(timeByComponents)"

The weekend is in 3 days

ListFormatter

```
ListFormatter.localizedString(byJoining: ["Sushi", "Hamburger", "Pizza"]

let formatter = ListFormatter()
formatter.string(from: ["Sushi", "Hamburger", "Pizza"]

// Both return "Sushi, Hamburger, and Pizza"
```

Can read Siri's prompt style

```
AVAudioSession.PromptStyle.none
AVAudioSession.PromptStyle.normal
AVAudioSession.PromptStyle.short
```

Discresionary BG tasks

```
let config = URLSessionConfiguration.background(withIdentifier: "test.url")
config.isDiscretionary = true
config.allowsExpensiveNetworkAccess = false
let session = URLSession(configuration: config)
let downloadTask = session.downloadTask(with: url)
downloadTask.countOfBytesClientExpectsToReceive = 1_073_741_824

let processingRequest = BGProcessingTaskRequest(identifier: "test.request")
processingRequest.requiresExternalPower = true
processingRequest.requiresNetworkConnectivity = true
try BGTaskScheduler.shared.submit(processingRequest)
```

OperationQueue.addBarrierBlock

```
let operationQueue = OperationQueue()
operationQueue.maxConcurrentOperationCount = 5
var opCount = 0
operationQueue.addOperation {
    opCount += 1
    sleep(3)
    print("Ran and slept")
operationQueue.addOperation {
    opCount += 1
    print("Running a second time")
operationQueue.addOperation {
    opCount += 1
    print("Running a third time")
operationQueue.addBarrierBlock { print("Ran \(()) \() \() opCount() \() operations") }
operationQueue.addOperation {
    opCount += 1
    print("Finished running \((opCount) operations")
```

OperationQueue.addBarrierBlock



Running a second time
Running a third time
Ran and slept
Ran 3 operations
Finished running 4 operations

NSData.compress(using:)

```
let compressedData = try! data.compressed(using: .zlib)
print(data.length < compressedData.length) // true (usually)

let decompressedData: NSData = try! compressedData.decompressed(using: .zlib)
print(data.isEqual(to: decompressedData as Data)) // true

let decompressAgain = try? decompressedData.decompressed(using: .zlib) // nil</pre>
```

Show Popup



Swipe to Dismiss

Haptic Use

MetricKit

Low Data Mode

- Per-App Languages
- git stash in Xcode

Text Catalogs

WebSockets

- Collection Diffing
- Read / Write NFC

 Augmenting CoreML models on device

Thanks

https://github.com/brevansio/ wwdc2019meetup

