Supercharge your Apps with NSOperations

by

iOS COACH FRANK

📍 Cocoaheads MTL - March 16th, 2017

WWDC 2015

Advanced NSOperations

What we'll talk about today

- What exactly is an NSOperation?

- What do Operations look like in the real world?

- A whole new world of Operations
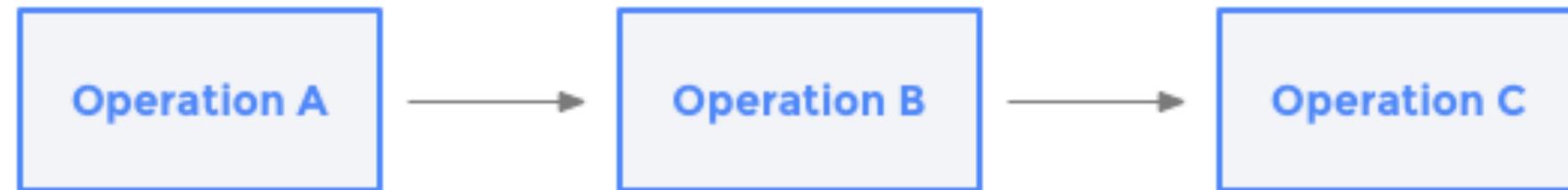
Part 1
What's an NSOperation?

What's an NSOperation?

- Wrapper around a block of code

- Run by an NSOperationQueue
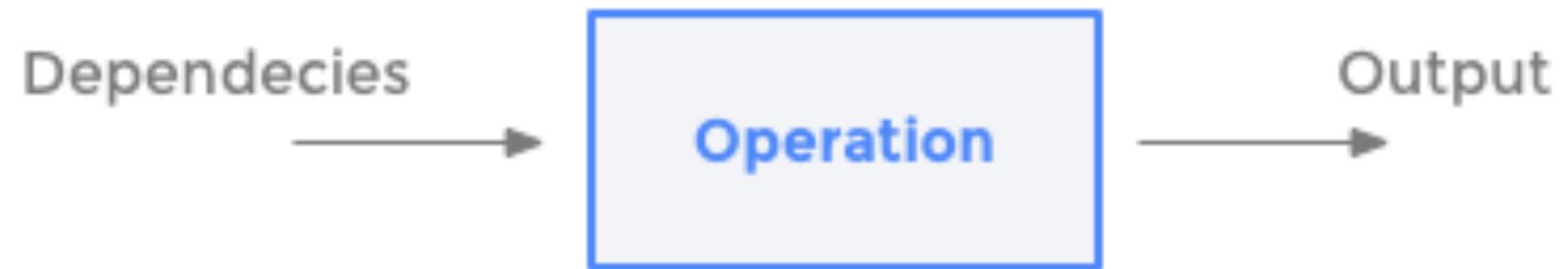
- With a bunch of cool features

Cancelable

Dependencies

Multi-Core Aware

Core 1

Op 1   Op 3

Core 2

Op 2

Black Box Approach

Dependecies → Operation → Output

Part 2
Operations in the Real World

Code that returns right away

- Parsing JSON into a model

- Checking for location permissions

- Saving to NSUserDefaults

Code that returns asynchronously

- Network requests

- Connecting to a Bluetooth device

- CloudKit operations

Code that runs UI

- Showing a UIAlertController

- Presenting complete flows of UI

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Part 3
A whole new world

Composable and Reusable

- Small blocks that can be composed and reused

- Because they share the same interface, it's easy to build components that run on Operations.

If you can draw a flowchart
you can use NSOperations

Some Examples

- Activating Geofence Push Notifications
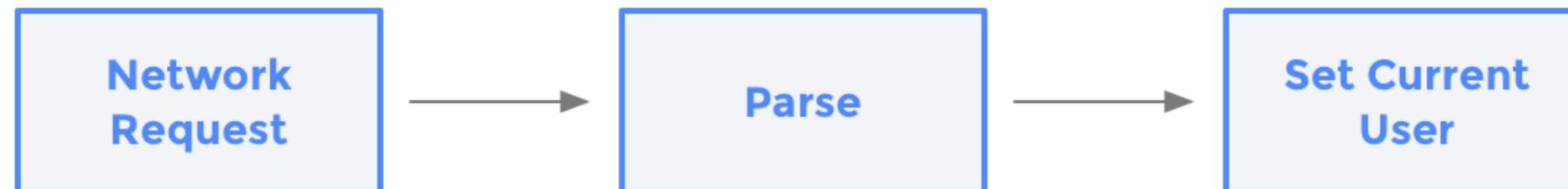
- Facebook Login
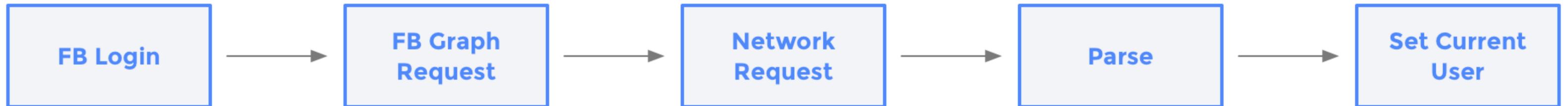
- Parsing Large Datasets

Activating Geofence Push

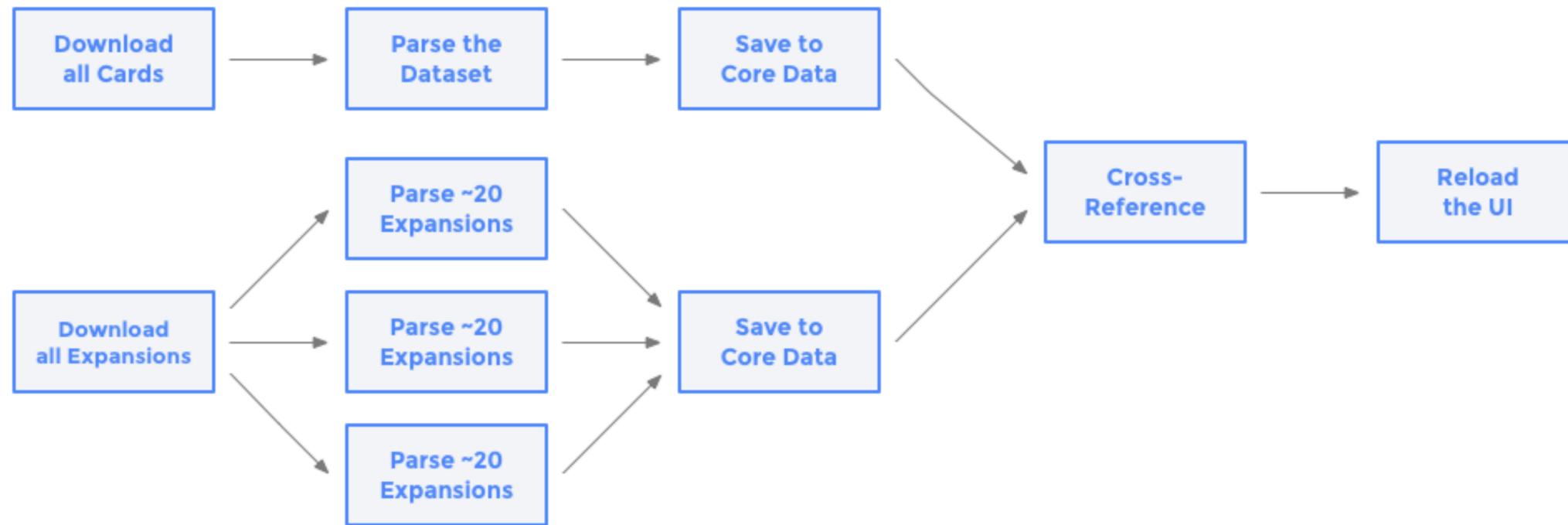Prime for Access → Ask for Location → Ask for Push → Create Geofence

Activating Geofence Push

Normal Login

Facebook Login

FB Login → FB Graph Request → Network Request → Parse → Set Current User

Parsing Large Datasets

Let's keep in touch 🤝

@Frankacy