

AGENDA

- 01. What is Cornerback?
- 02. Main concepts
- 03. Constraints
- 04. The WKWebView affaire
- 05. CornerbackWebView
- 06. Demo







WHAT IS CORNERBACK?

Cornerback is a library developed 100% in Swift that

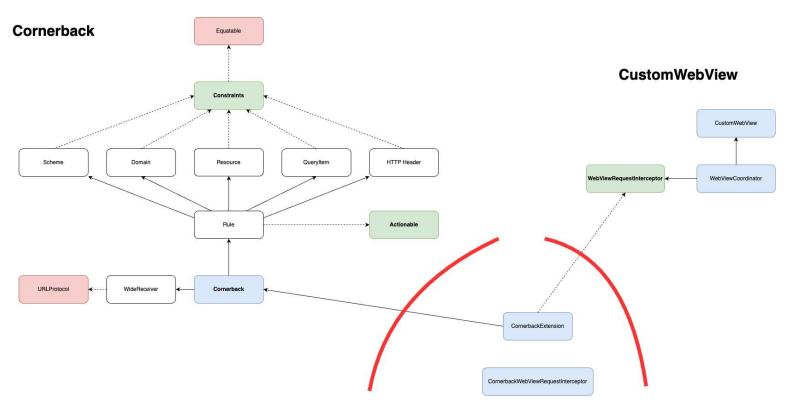
captures outgoing network traffic from an

application based on rules defined by the developer

and is capable of modifying those requests.



WHAT IS CORNERBACK?



CornerbackWebView



CORNERBACK. MAIN CONCEPTS

Cornerback functionality is based on two main concepts

- Rule. A set of constraints that could be enabled or disabled during the application execution.
- Constraints. A equality constraint for one of the request components



CORNERBACK. CONSTRAINTS

Cornerback provides the following constraints

- Scheme
- Domain
- Resource
- Query item
- Headers

Developers can add new constraints thanks to the Constraint protocol.



CORNERBACK. THE WKWEBVIEW AFFAIRE

The current web view component recommended by Apple presents a problem.

The security policy allows WKWebView to *bypass* the request catching from inside the application.

But we got the solution



CORNERBACKWEBVIEW

And what happened if we got our webview component in an independent package? Design patterns comes to the rescue.

- 1. **Custom WKWebView component**. Declares a protocol for an external request interceptor that is invoke in the navigation WKNavigationDelegate protocol using a (simple) state machine.
- CornerbackWebView. Following the Adapter Pattern implements a
 Cornerback extension for the custom WKWebView component interceptor definition



CORNERBACKWEBVIEW

Cornerback and Custom WKWebView

component packages remains independent.

No dependencies between them.



IT'S...

Demotime





CORNERBACK. MAIN CONCEPTS

The safest way to protect information traffic is

not to send information.

Thanks!

