Siri and SiriKit: an *Intents* topic

Alexsander Akers · @a2

Swift Alps

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Who am I?

- Alex
- @a2
- Microsoft To-Do
- Berlin



Overview

- Introduction to Siri and SiriKit 15 minutes
- Implementing SiriKit 1 hour, 30 minutes
- Wrap-up and Questions 15 minutes

What does SiriKit allow people to do?

- Send a message in your app
- Book a ride in your app
- Start a workout in your app
- Perform an action in your app

What's inside SiriKit?

Frameworks

- Intents
- IntentsUI

App Extensions

- Intents app extension
- Intents UI app extension

How does SiriKit work?

- 1. Users make requests to Siri
- 2. SiriKit launches your app extension in the background and asks you to resolve and handle the user's intent
- 3. You perform the relevant, context-specific actions
- 4. Siri displays result data to the user (optionally with a custom UI)

Supported Request Domains

- System-defined
- Custom (since iOS 12)

Supported Request Domains

- Messaging
- Lists and Notes
- Workouts
- Payments
- VoIP Calling
- Visual Codes

Supported Request Domains

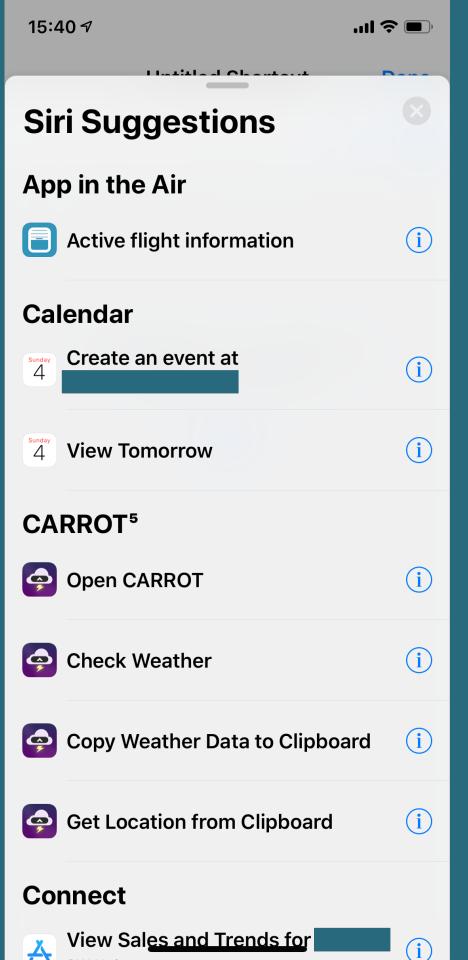
- Photos
- Ride Booking
- Car Commands
- CarPlay
- Restaurant Reservations

Custom Intent Domains

- Defined in Xcode in an Intents.intentdefinition file.
- Exposed by Siri in the Shortcuts app, Settings app, and in your app.

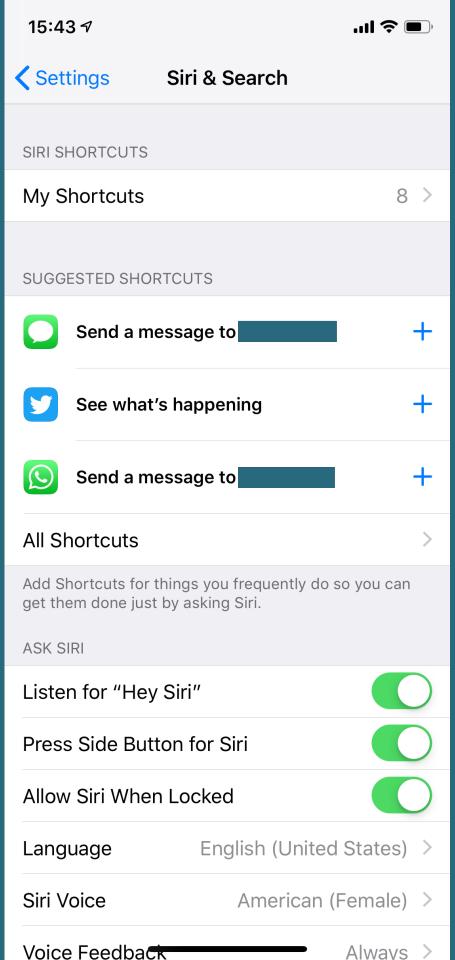
Shortcuts App

- Allows you to coordinate actions to create workflows
- Extremely limited input/ output
 - Clipboard as "scratch pad"



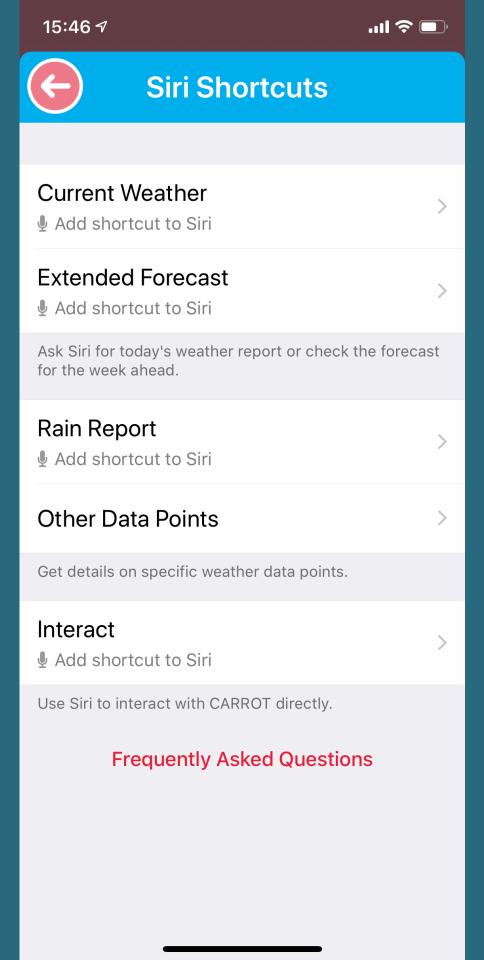
Settings App

- Settings > Siri & Search > Suggested Shortcuts
- Allows you to create Siri shortcuts from recently or frequently performed actions



In Your App

- INVoiceShortcutCenter
 - Manages user-created Siri shortcuts and appsuggested shortcut suggestions
- INUIAddVoiceShortcutButton
 - A UIButton subclass that displays "Add to Siri" with a consistent style across apps that support Siri shortcuts



In Your App

- INUIAddVoiceShortcut- ViewController
 - Guides the user through the steps for adding a shortcut to Siri

15:50 ⋪



Cancel



You can say something like...

"Weather report"

After you record your personalized phrase, Siri can use it to tell CARROT⁵ to run this shortcut.



Supporting an Intents or IntentsUI extension

- Private shared framework for common code
 - Link your app and app extensions against this
 - Minimizes the size of executables
 - Easier testing because all executables use the same code path

Supporting an Intents or IntentsUI extension (pt. 2)

- Use a shared container to store important resources
 - Passwords and access tokens in a shared keychain group
 - Databases and user records in a shared app group container

System Domain

- You: Send a message
- Siri: To whom should I send your message?
- You: Alex
- Siri: Which of the following people named Alex?
- You: Alex Akers
- Siri: What do you want the message to say?

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Custom Domains

Apple Sample Code: Soup Chef

- Allows people to order soup
- An *Intent* with three parameters
 - soup: type of soup
 - quantity: number of bowls
 - options: optional toppings

Custom Domains

Wouldn't it be nice...

- You: Order me a soup
- Siri: What soup would you like?
- You: Tomato
- Siri: Great, how many tomato soups do you want?
- You: 2

Custom Domains

This is what we get... (no dialogs)

- You: Order my regular soup
- Siri: Ordering you 2 tomato soups with croutons

What will we be doing?

- Add SiriKit to an app of your choice
 - Could be a work or personal project
 - System or custom domain
- Implement SiriKit in a sample project github.com/davedelong/MVCTodo