



CocoaHeads Aachen

Talking to SiriKit

2016-09-29

Michael Plagge

Agenda

- ✧ Learning to talk
- ✧ Limitations
- ✧ Domains
- ✧ Intent(ion)s
- ✧ Utilizing SiriKit
- ✧ Pitfalls

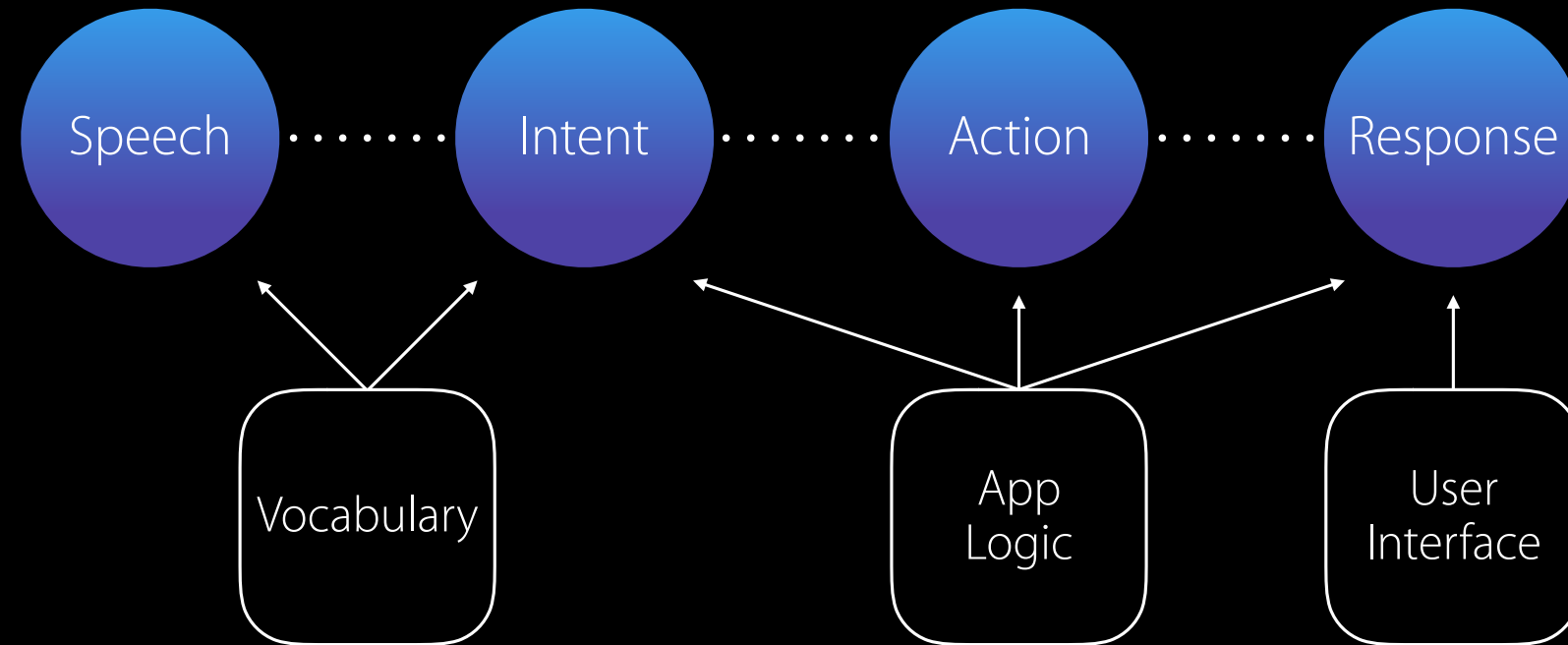
Learning to talk

Hey, Siri!

- ✦ Speech recognition is very complex
- ✦ Adaptive User Interface
 - ✦ hands-free
 - ✦ visual support
 - ✦ ...
- ✦ Some mystery remains

Learning to talk

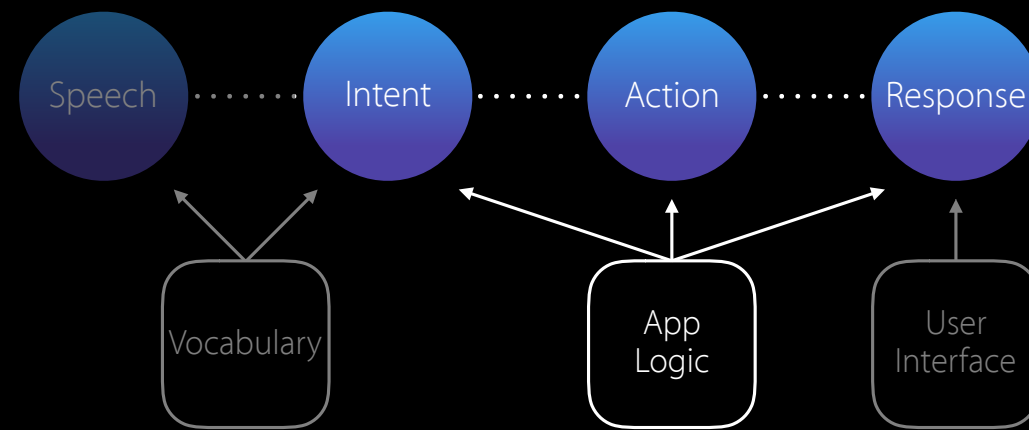
General workflow



<https://developer.apple.com/videos/play/wwdc2016/217>

Learning to talk

General workflow



“Hey Siri, send a UnicornChat message to Celestra”

What do you want to say to Celestra?

Recipient

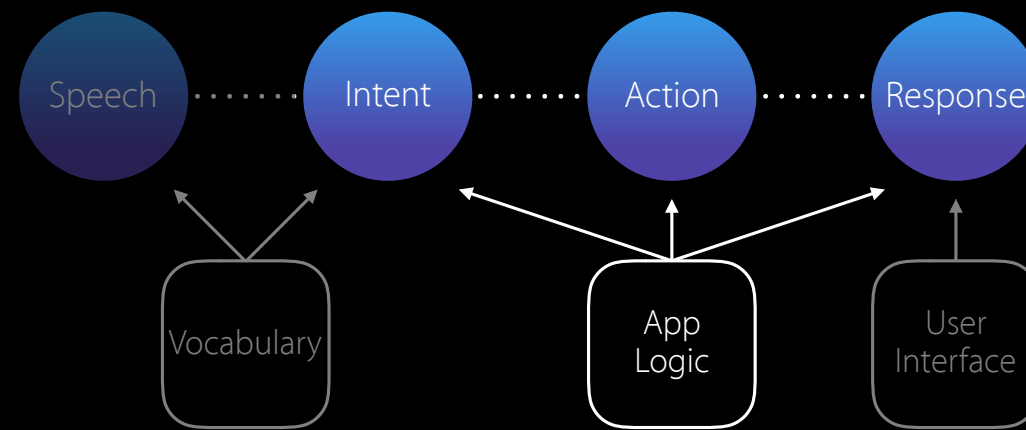
“Let’s add more sparkle transitions”

Content

<https://developer.apple.com/videos/play/wwdc2016/217>

Learning to talk

General workflow

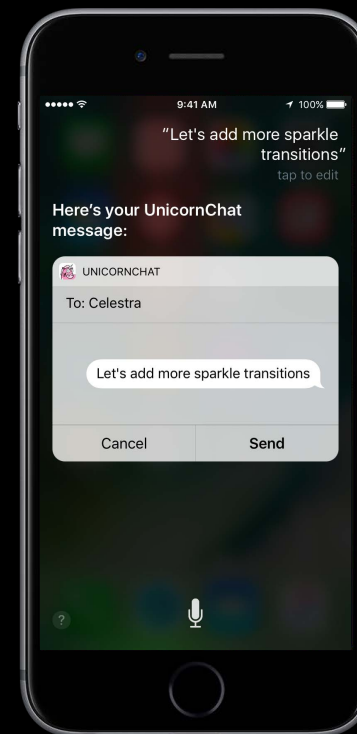
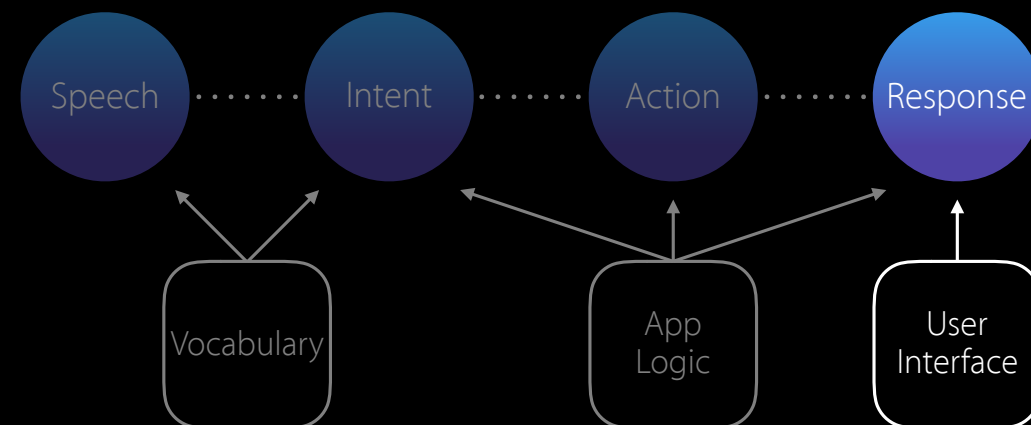


Domain: Messages
Intent: sendMessage
Recipient: Celestra
Content: Let's add more sparkle transitions

<https://developer.apple.com/videos/play/wwdc2016/217>

Learning to talk

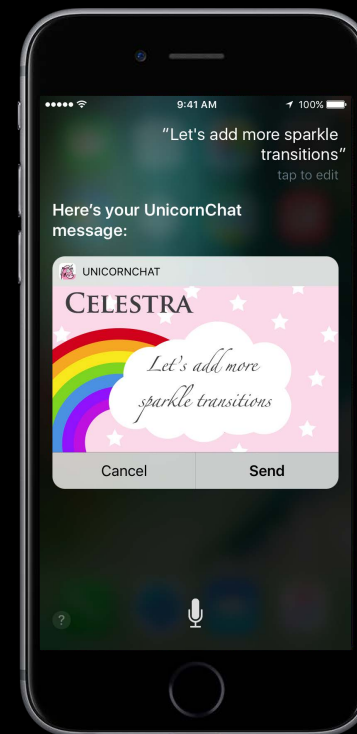
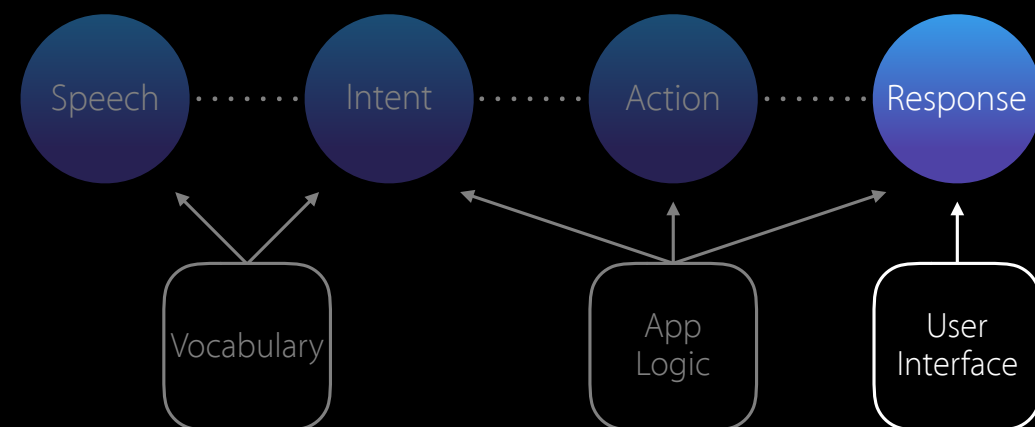
General workflow



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Learning to talk

General workflow



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Restricting conditions Limitations

- ✧ Complexity
- ✧ Response time
 - ✧ computation / preprocessing
 - ✧ network latency
- ✧ Disambiguation
- ✧ Utterance

What are we talking about?

Domains

- ✦ Messaging
- ✦ VoIP calling
- ✦ Payments
- ✦ Workouts
- ✦ Ride booking
- ✦ Photo Search

What are we talking about?

Intents

- ✦ Actions to be performed
- ✦ Classified into a domain
- ✦ ...and responses: `IntentResponse`
 - ✦ `NSUserActivity`
- ✦ <https://developer.apple.com/reference/intents>

Lifecycle Intents

- ✧ Resolve
 - ✧ Parameters, Defaults
 - ✧ `success(with:)`, `confirmationRequired(with:)`,
`disambiguation(with:)`, `needsMoreDetails(for:)`, `needsValue`,
`unsupportedWithReason`, `notRequired`
- ✧ Confirm
- ✧ Handle

Utilizing SiriKit

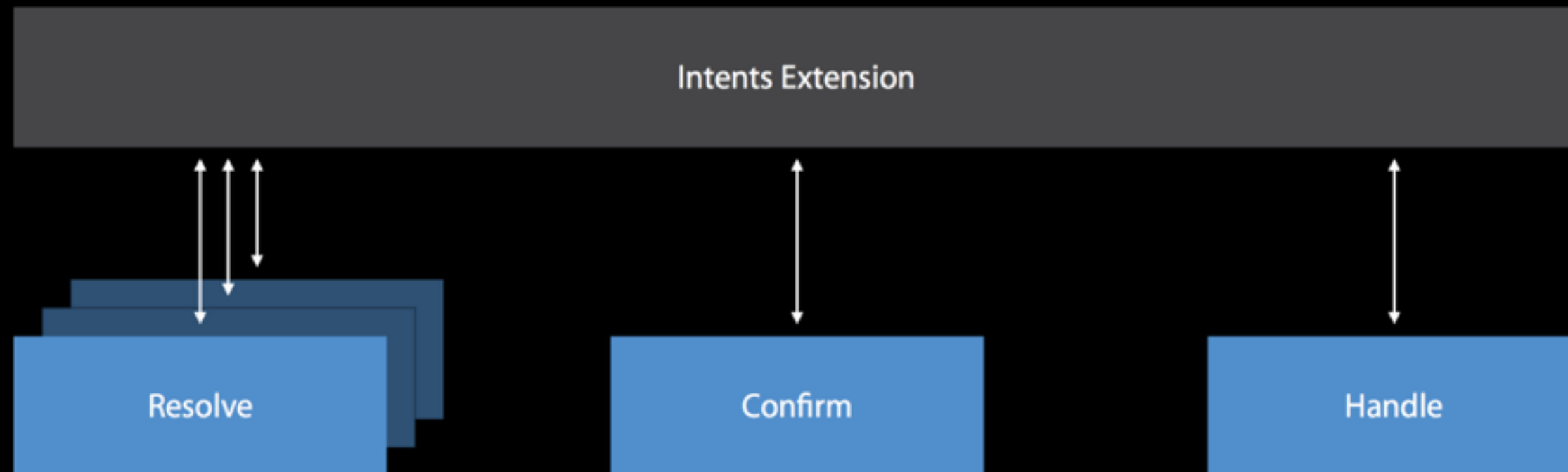
Implementing

- ✦ New Project Targets
 - ✦ Intents extension
 - ✦ Intents UI extension
- ✦ New Metadata (.plist)
 - ✦ App vocabulary
 - ✦ User vocabulary

Utilizing SiriKit

Intents extension

- ✧ SiriKit's basis
- ✧ background process
- ✧ supports Intent(s)

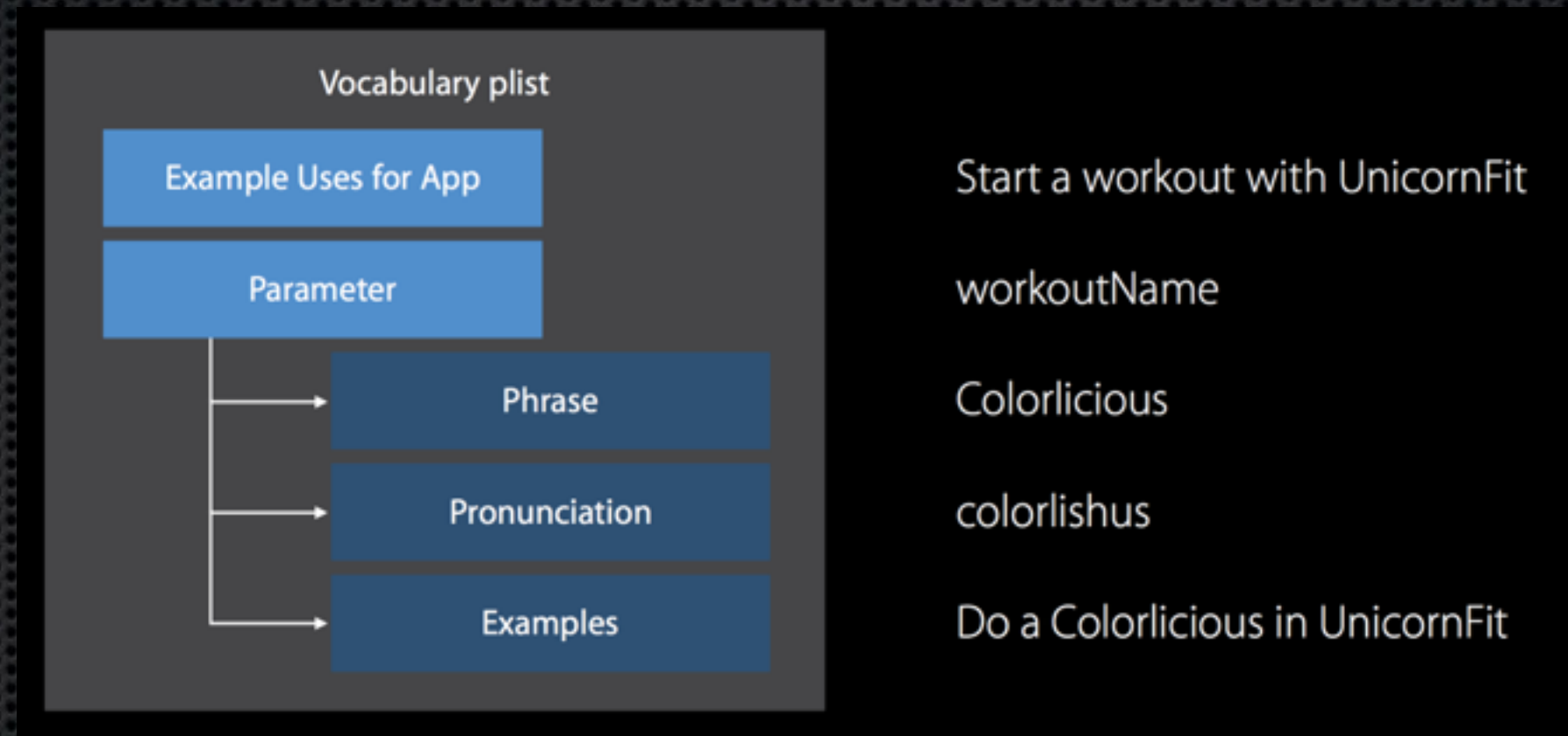


<https://developer.apple.com/videos/play/wwdc2016/217>

Utilizing SiriKit

App vocabulary

- ✧ words and phrases that are part of the app
- ✧ defined in a plist
- ✧ localized



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Pitfalls

- ✦ Choose your App name wisely
 - ✦ users **must** say the App name (can be hard to recognize for Siri)
- ✦ Provide sufficient example strings
- ✦ Possible usage:

Call Lucky Moontrötter using UnicornChat

<https://developer.apple.com/videos/play/wwdc2016/217>

Get me a bicorn ride on UnicornRide to the forest

I need a UnicornRide to get me home

UnicornChat Celestra order five rainbow rolls please

UnicornPay 18 dollars to Sparkle Sparkly

Ask CJ to UnicornPay me 25 dollars to cover dinner at Noon's Grill

Start a 15-minute trot with UnicornFit

Using UnicornChat tell Pinky Nose that I'm running late

Demo

Resources

- **WWDC2016**

- Session 217: „Introducing SiriKit“

- <https://developer.apple.com/videos/play/wwdc2016/217>

- Session 225: „Extending Your Apps with SiriKit“

- <https://developer.apple.com/videos/play/wwdc2016/225>

- **WWDC2015: „App Extension Best Practices“**

- <https://developer.apple.com/library/content/documentation/Intents/Conceptual/SiriIntegrationGuide/>

- <https://www.raywenderlich.com/60870/building-ios-app-like-siri>

Thank you!

Michael Plagge, cocoaheads@plagge-it.de