Introducing SiriKit

“Hey Siri, say hello to apps”

Session 217

Robby Walker SiriKit Engineering
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Agenda

NEW

SiriKit

Agenda

NEW

SiriKit

Extensions

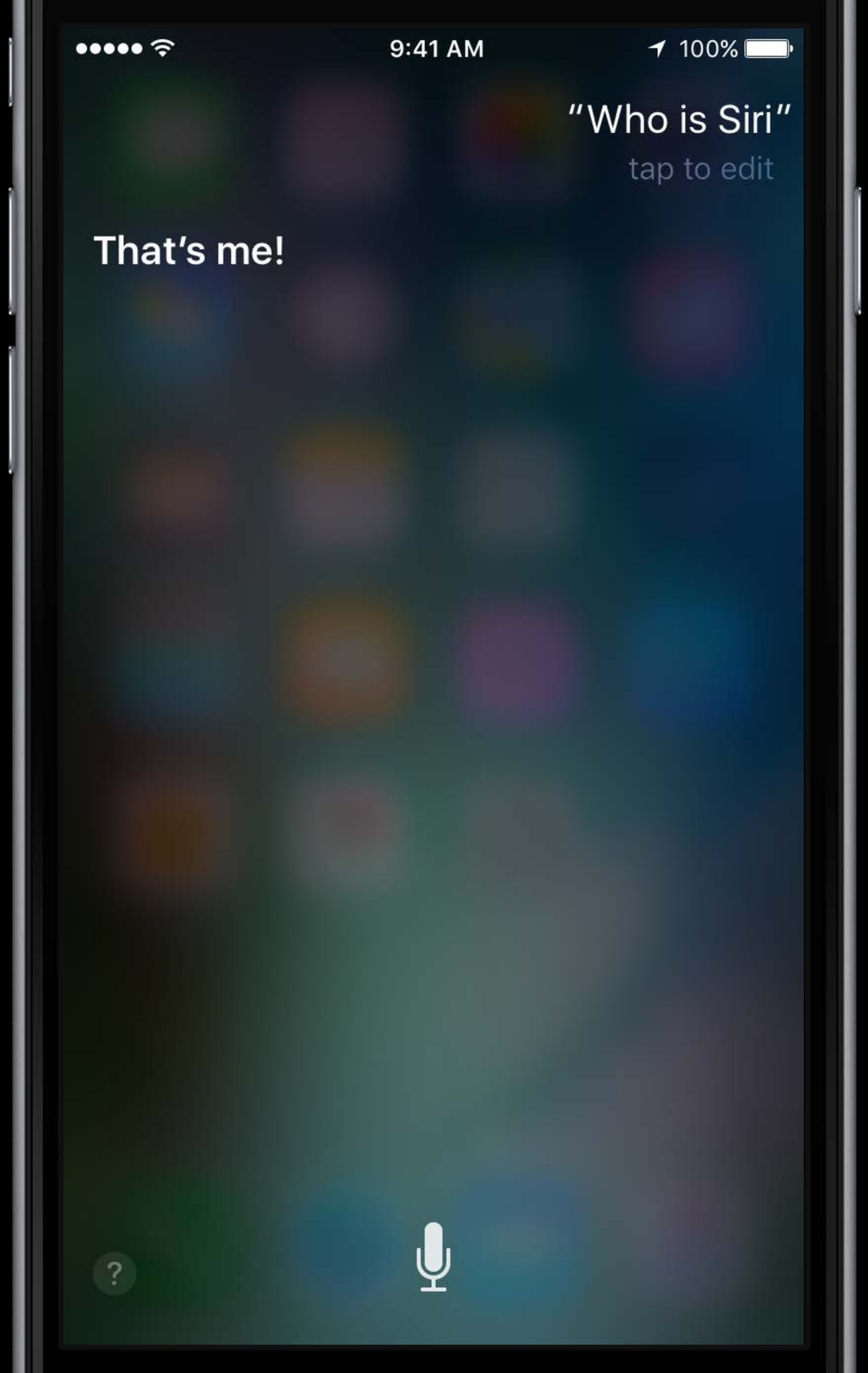
Agenda

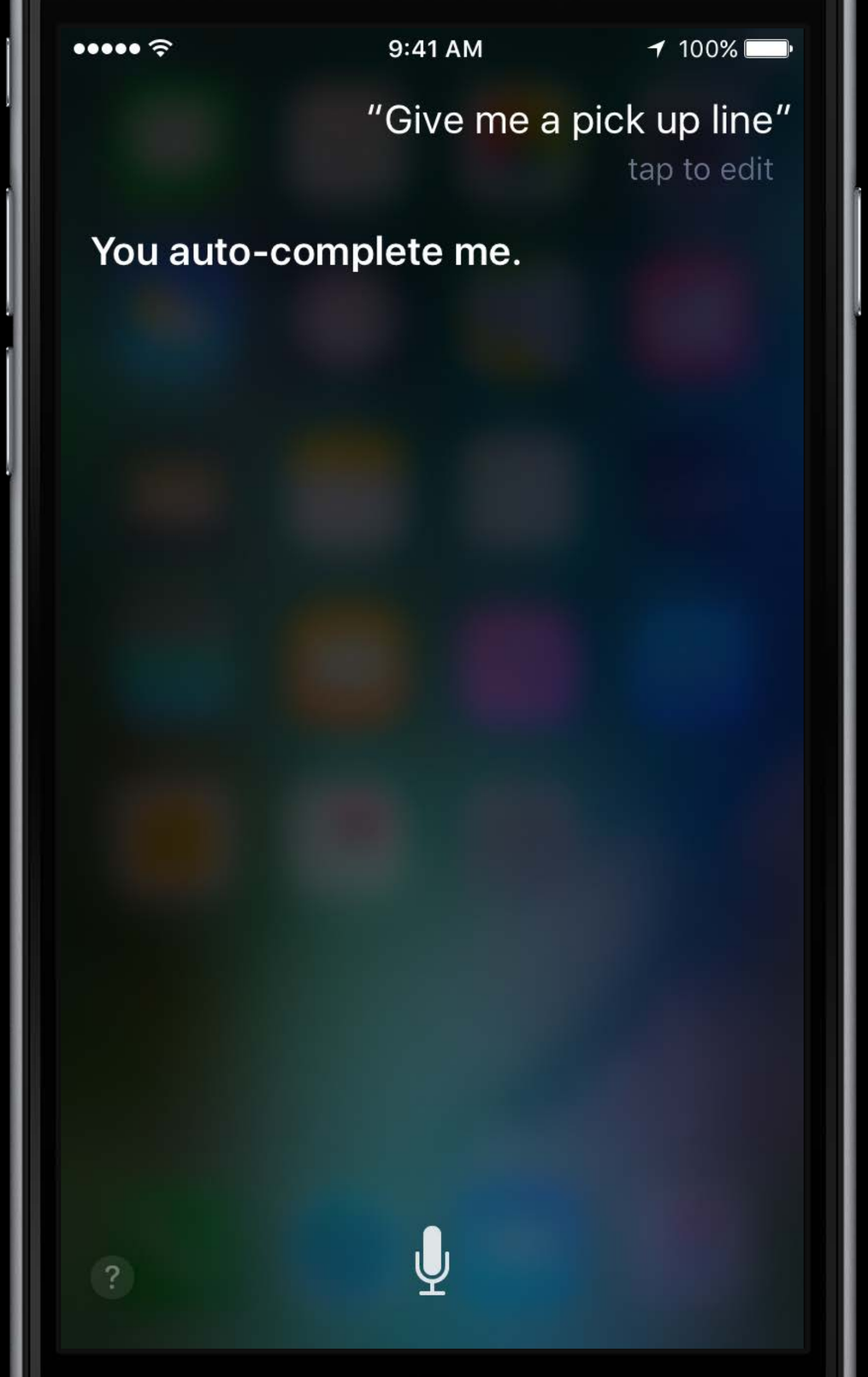
NEW

SiriKit

Extensions

Design


9:41 AM
100%
“Who is Siri”
tap to edit
That’s me!
?


9:41 AM
100%
“Give me a pick up line”
tap to edit
You auto-complete me.
?

9:41 AM 100%

"Add the Bash to my calendar from 7 to 10 PM on Thursday"

tap to edit

OK, I can create your meeting. Note that you already have an appointment about 'Writing unit tests' at 8 PM. Shall I schedule it anyway?

Calendar

Thursday, June 16, 2016

7:00 PM
10:00 PM
Bash

Cancel Yes

?

UnicornChat

UnicornChat

UnicornChat

"Hey Siri, send a UnicornChat message"

"Hey Siri, send a UnicornChat message"

To whom?

"Hey Siri, send a UnicornChat message"

To whom?

"Celestra"

"Hey Siri, send a UnicornChat message"

To whom?

"Celestra"

What do you want to say to Celestra?

"Hey Siri, send a UnicornChat message"

To whom?

"Celestra"

What do you want to say to Celestra?

"Let's add more sparkle transitions"

“Send a message to Celestra on UnicornChat”

“Send a message to Celestra on UnicornChat”

What do you want to say to Celestra?

“Let’s add more sparkle transitions”

“UnicornChat Celestra let’s add more sparkle transitions”

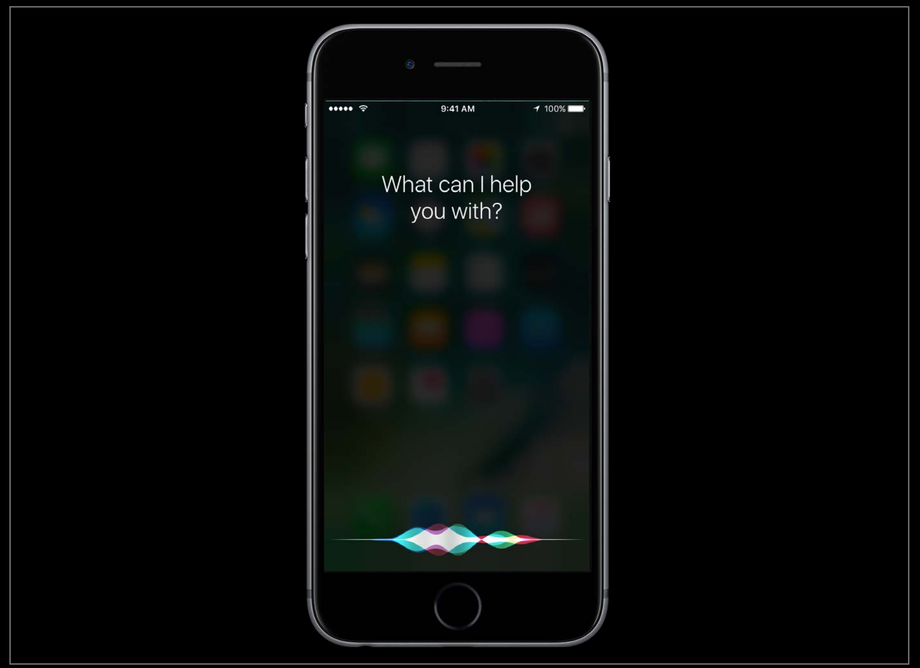
“独角兽快信 发信息给麒麟说 我们再加点闪亮的过渡效果吧”

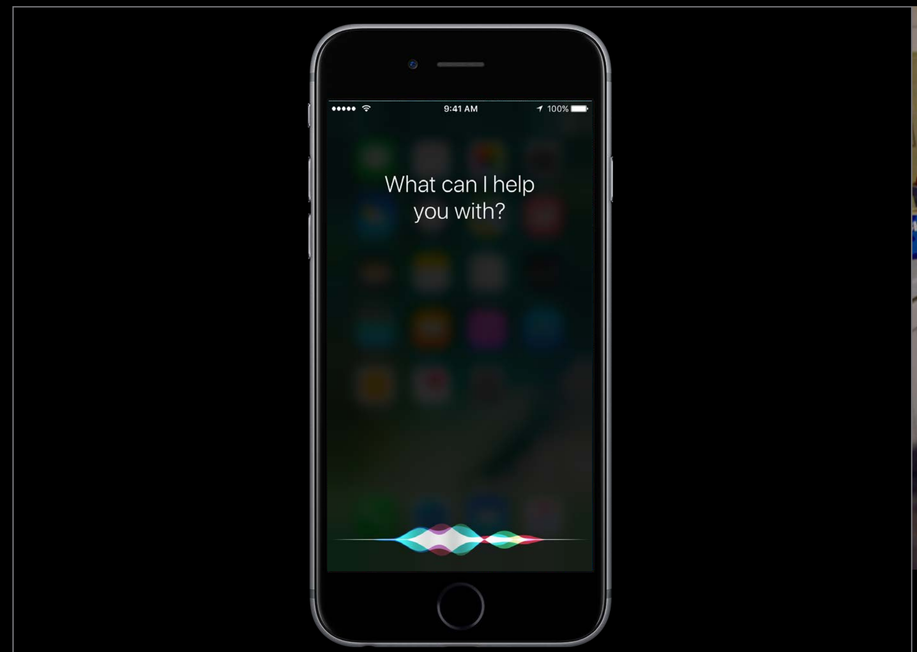
“Hey Siri, can you please do me a favor and launch the UnicornChat app to send a text with the message let’s add more sparkle transitions”

"Hey Siri, can you please do me a favor and launch the UnicornChat app to send a text with the message let's add more sparkle transitions"

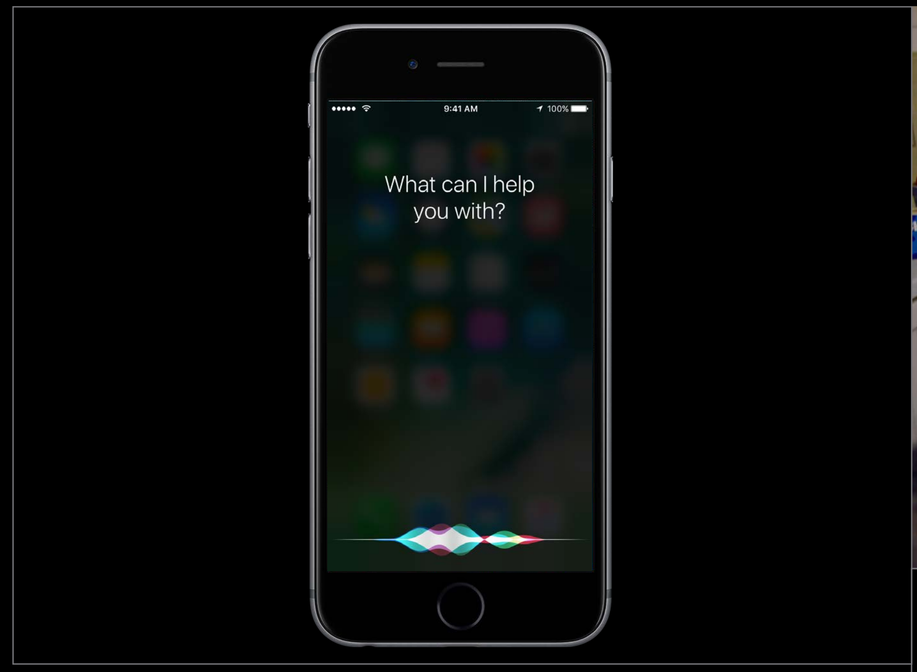
To whom?

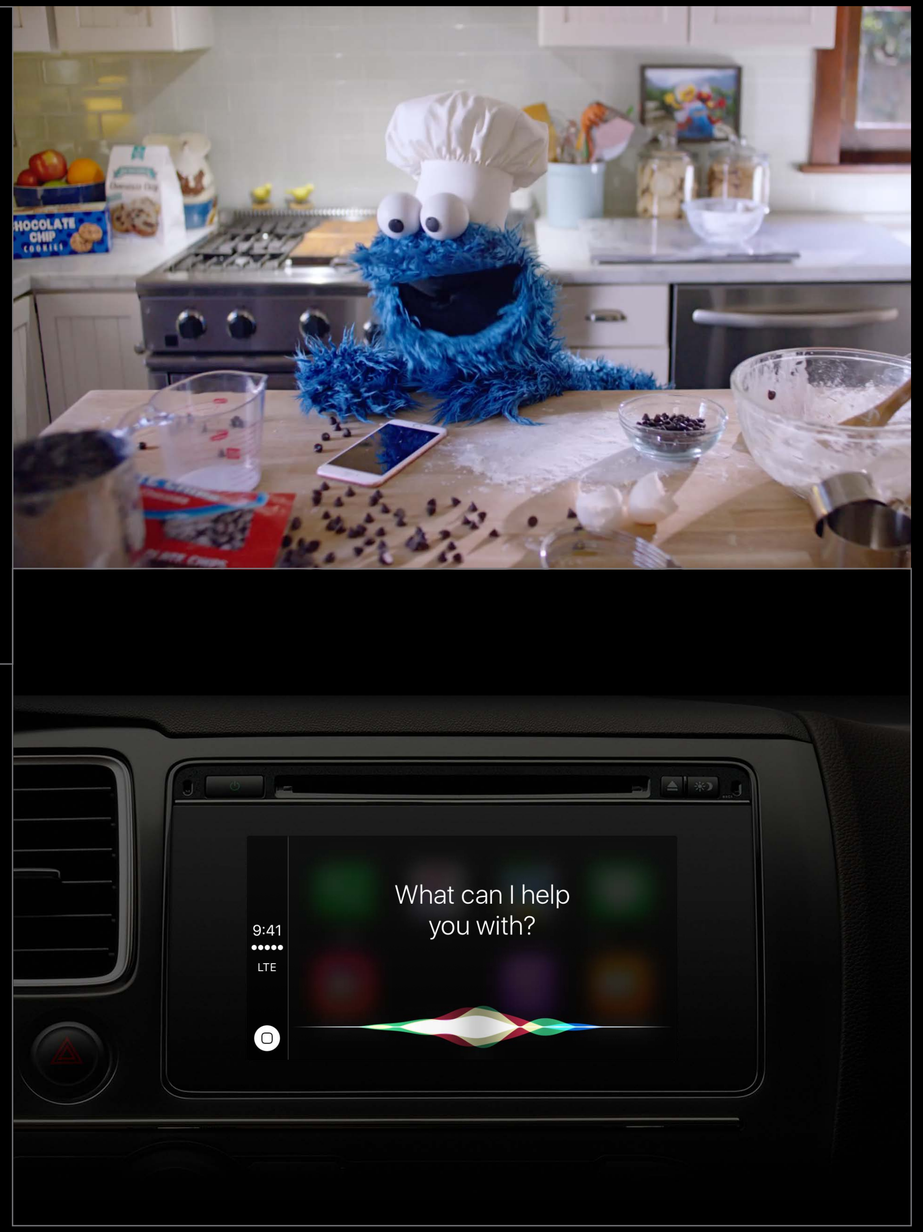
"My very best friend Celestra"


9:41 AM
100%
What can I help
you with?


9:41 AM
100%
What can I help you with?

HOCOLATE CHIP COOKIES


9:41 AM
100%
What can I help
you with?


HOCOLATE
CHIP
COOKIES
9:41
LTE
What can I help
you with?

9:41 AM
100%
What can I help you with?

HOCOLATE CHIP COOKIES

9:41
LTE
What can I help you with?

SiriKit and Your App

SiriKit and Your App

Quality

SiriKit and Your App

Quality

Consistency

SiriKit and Your App

Quality

Consistency

Easy to adopt

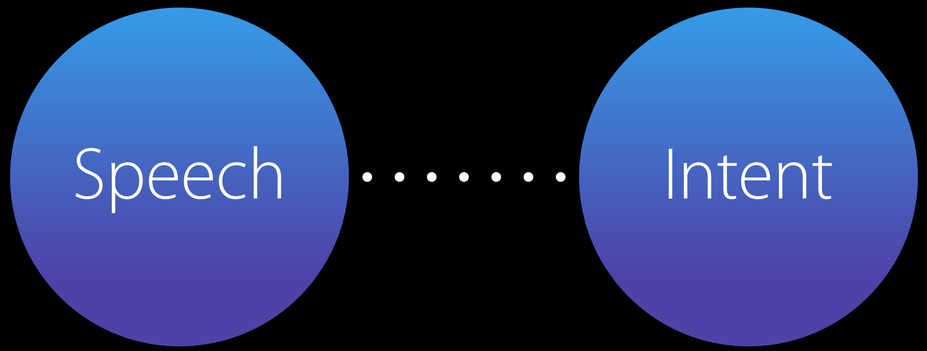
SiriKit and Your App

Quality

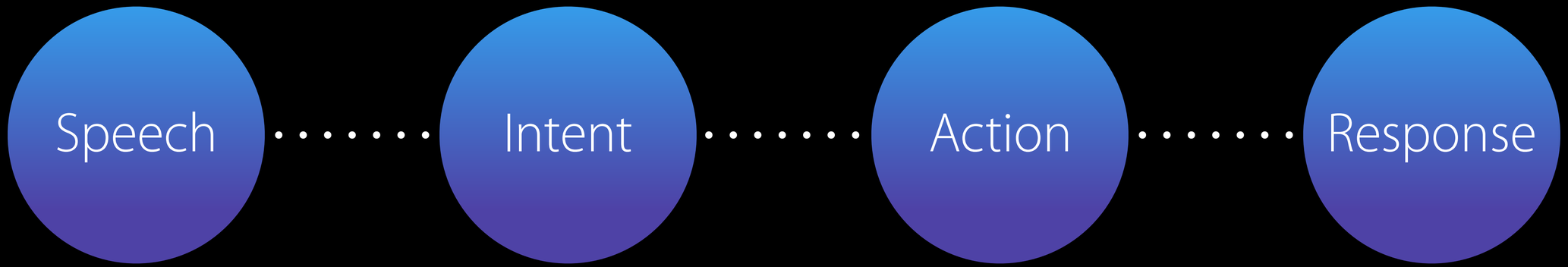
Consistency

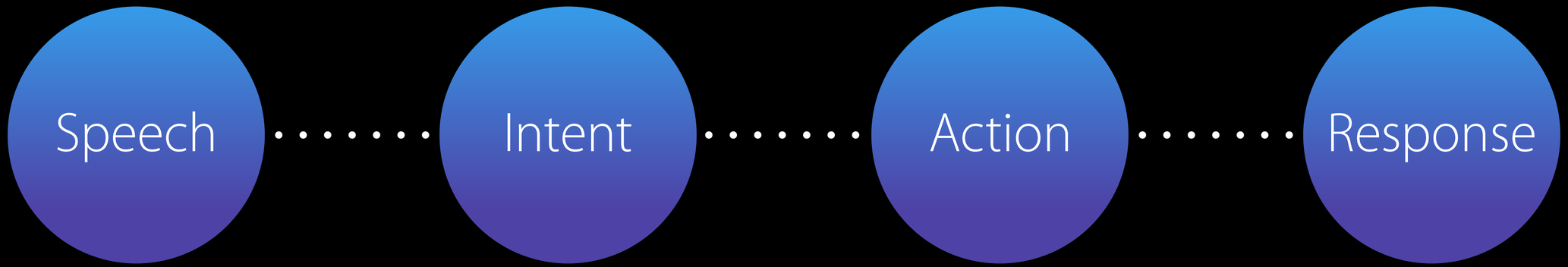
Easy to adopt

Speech


Speech
Intent

Speech
Intent
Action


Speech
Intent
Action
Response


Speech
Intent
Action
Response

Speech

Intent

Action

Response

Vocabulary

Speech

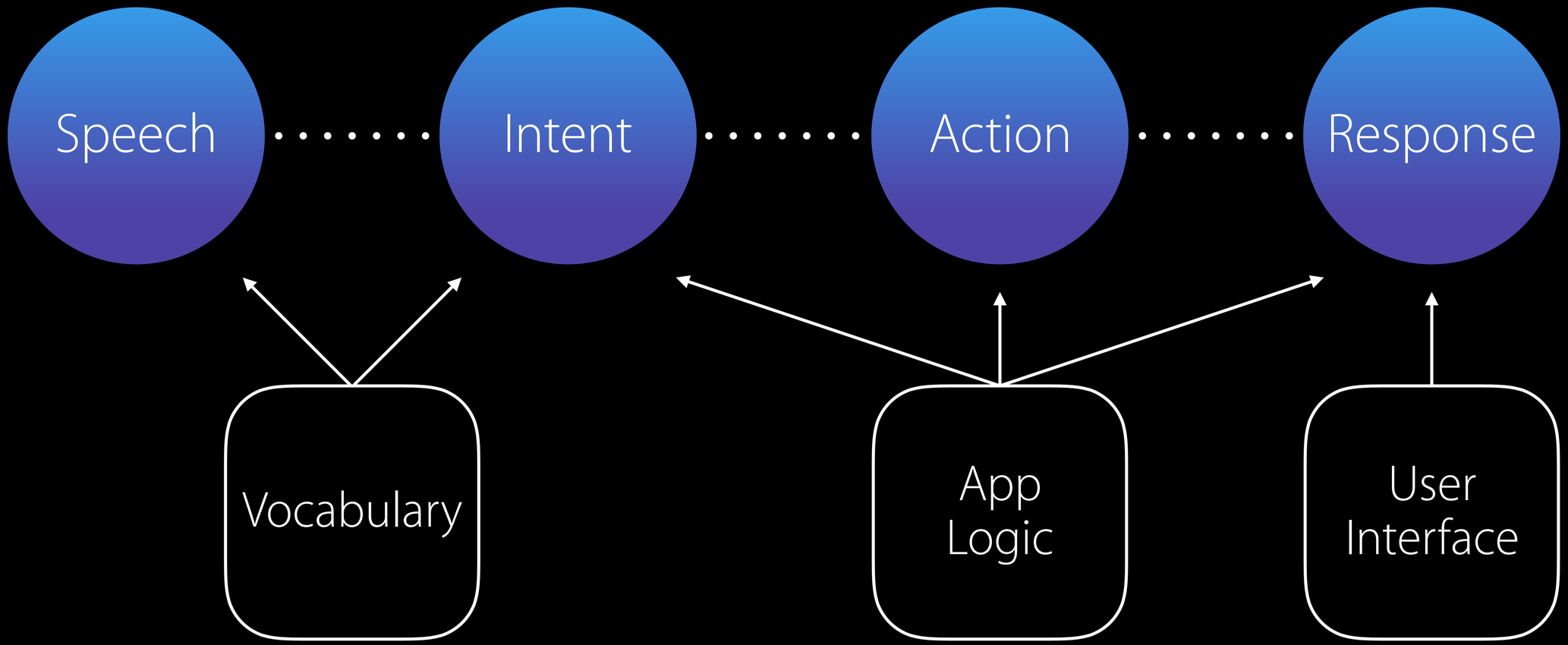
Intent

Action

Response

Vocabulary

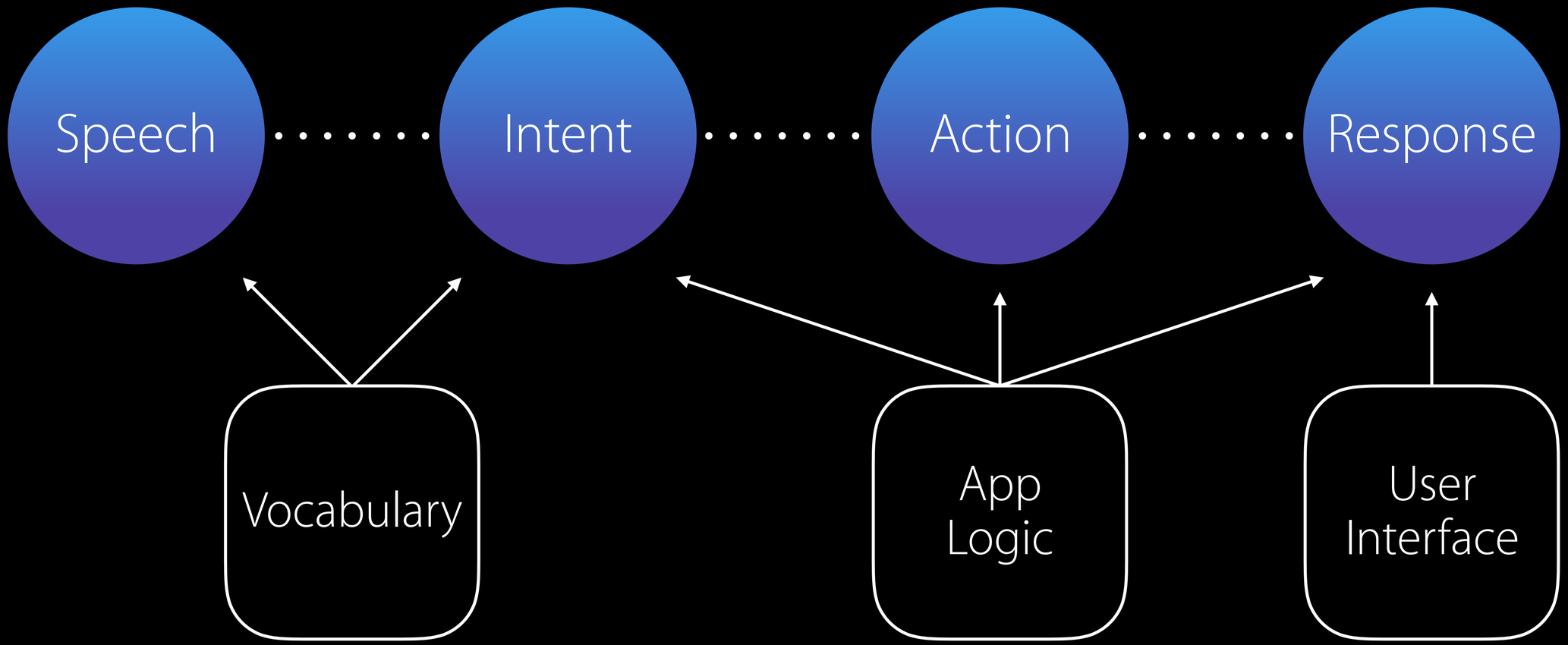
App
Logic


Speech
Intent
Action
Response
Vocabulary
App
Logic
User
Interface

“Hey Siri, send a UnicornChat message to Celestra”

What do you want to say to Celestra?

“Let’s add more sparkle transitions”


Speech
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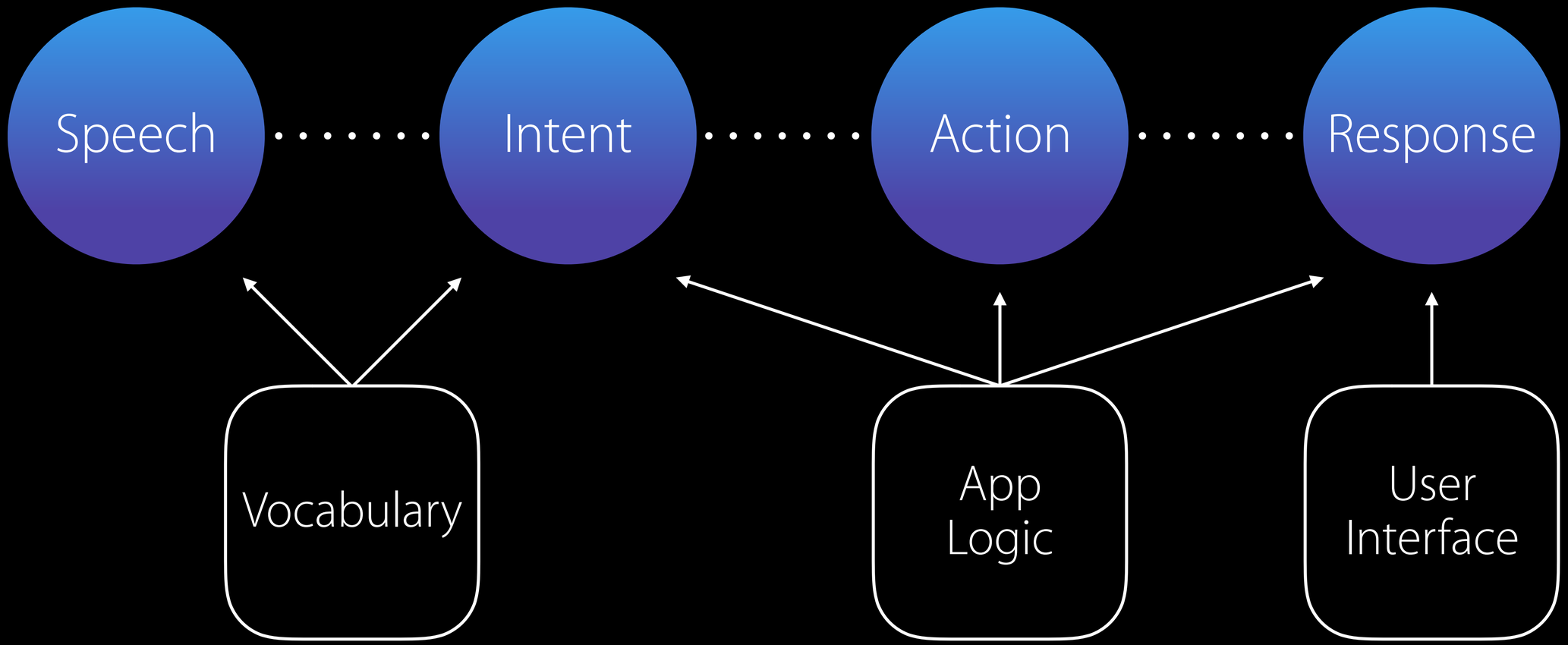
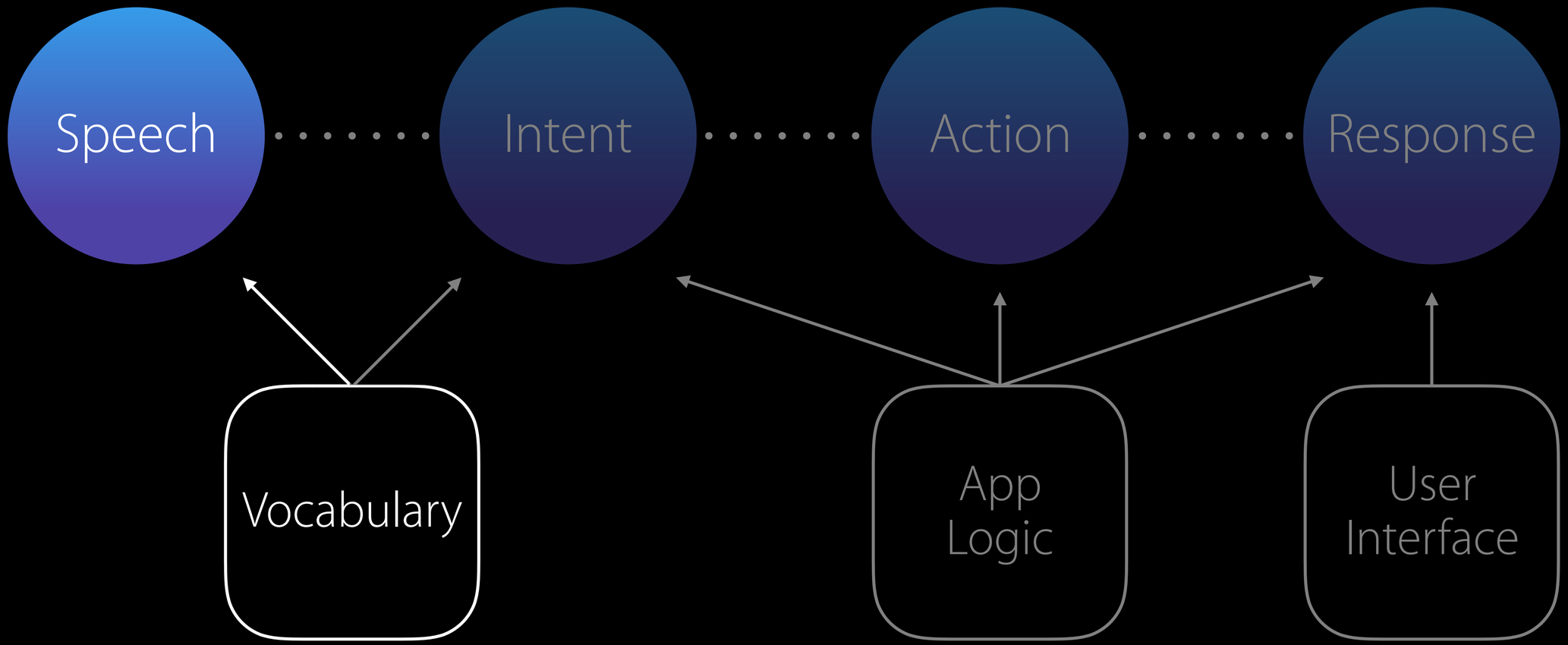
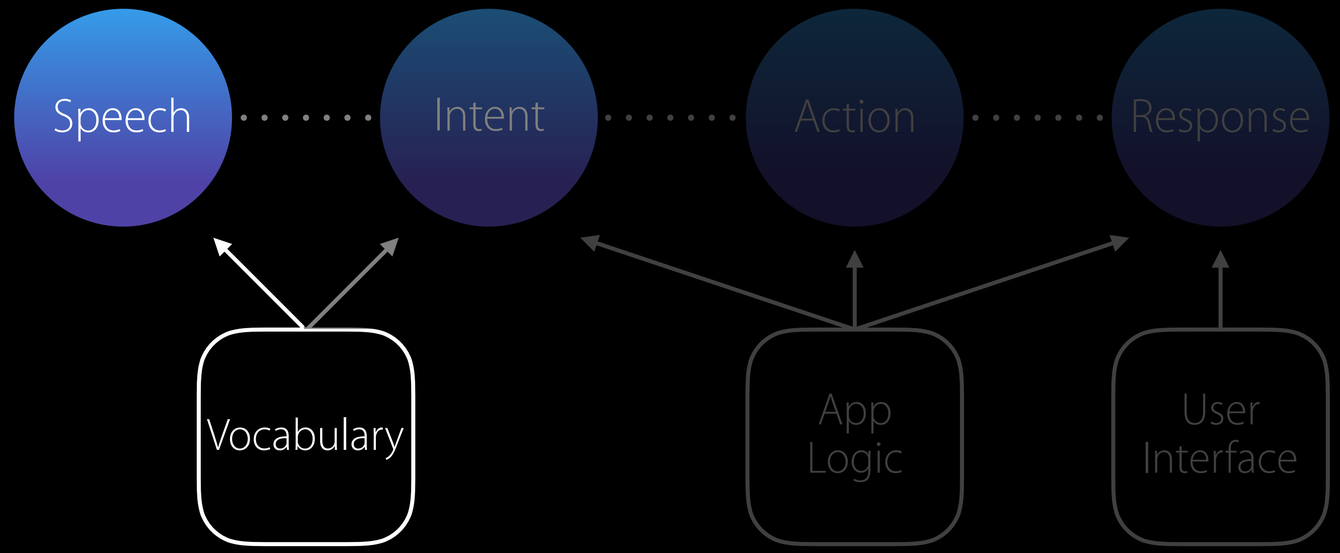


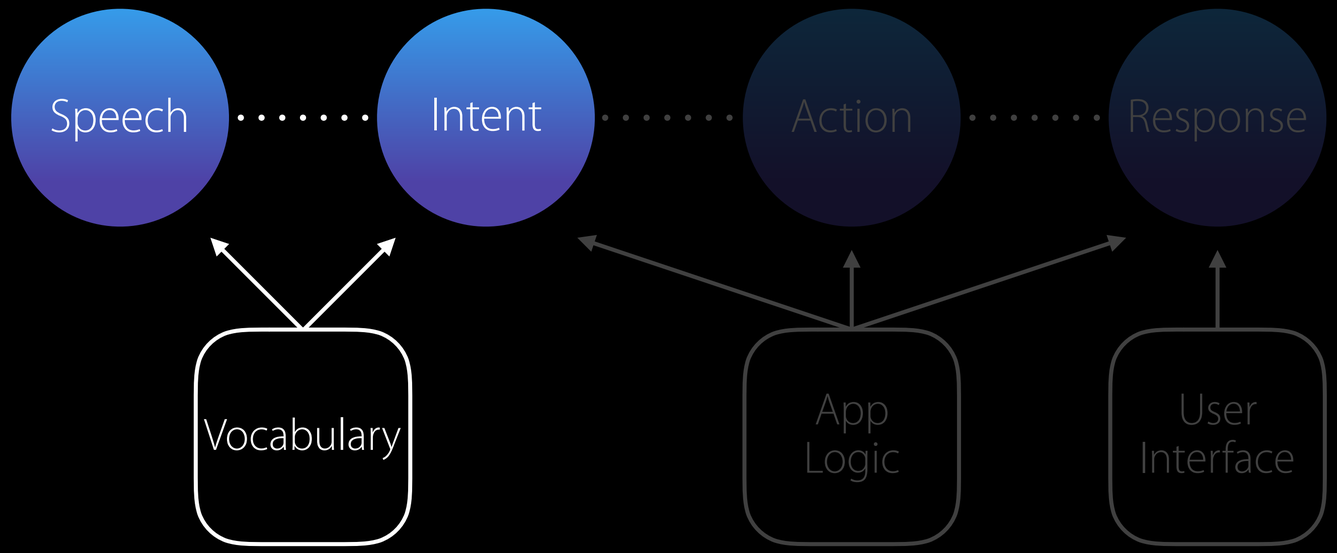
"Hey Siri, send a UnicornChat message to Celestra"



"Hey Siri, send a UnicornChat message to Celestra"

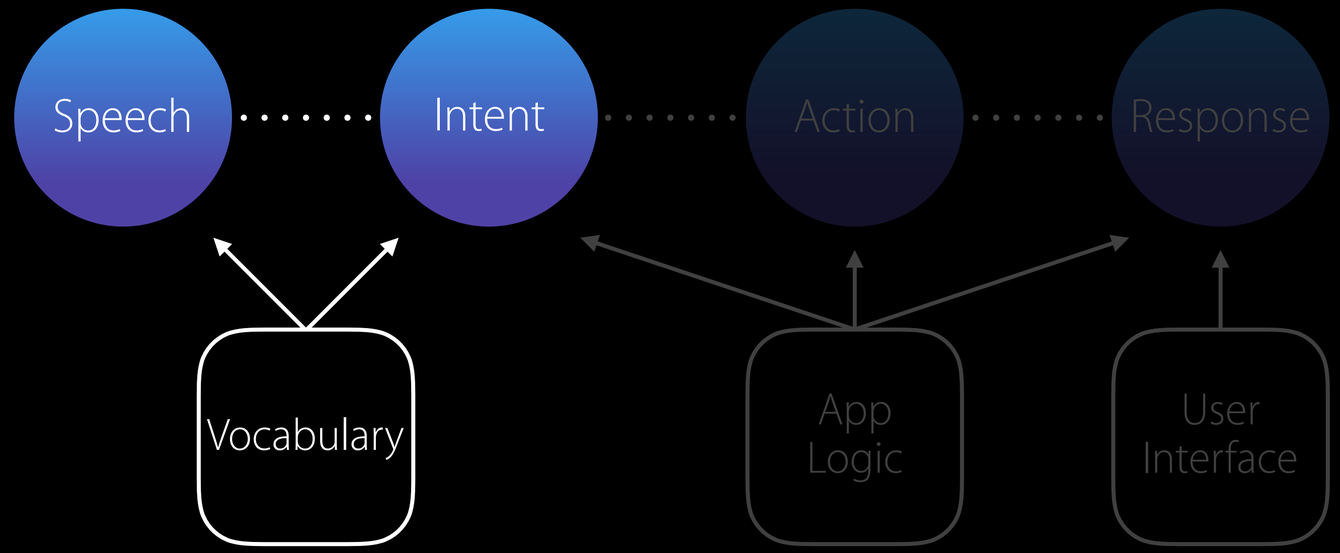


"Hey Siri, send a UnicornChat message to Celestra"



"Hey Siri, send a UnicornChat message to Celestra"

Recipient



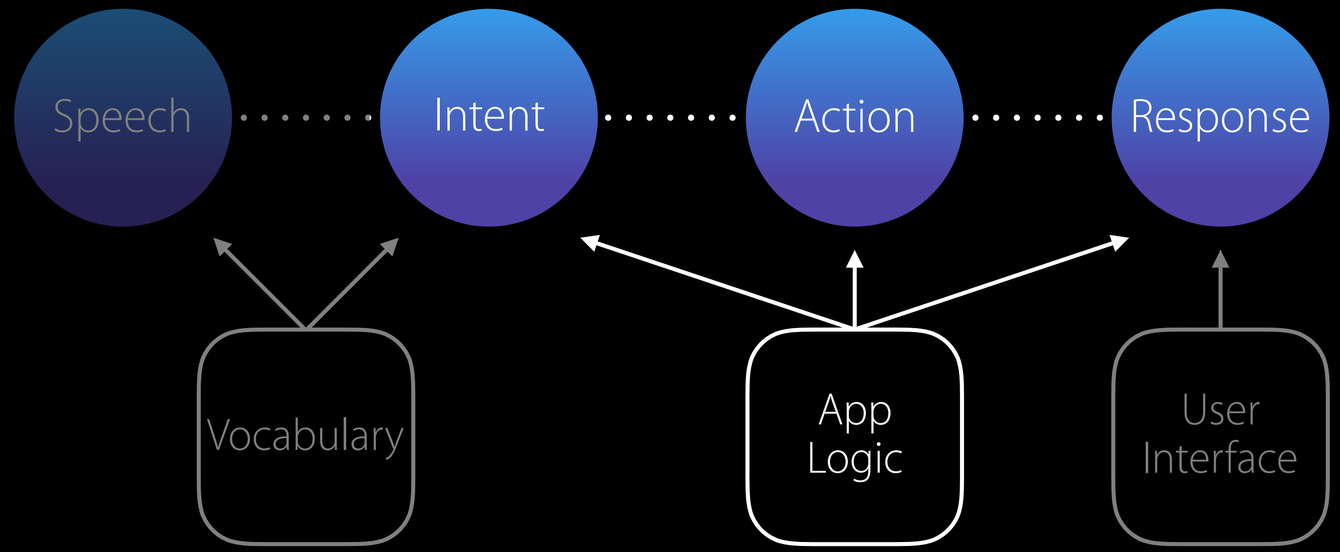
"Hey Siri, send a UnicornChat message to Celestra"

Recipient

What do you want to say to Celestra?

"Let's add more sparkle transitions"

Content



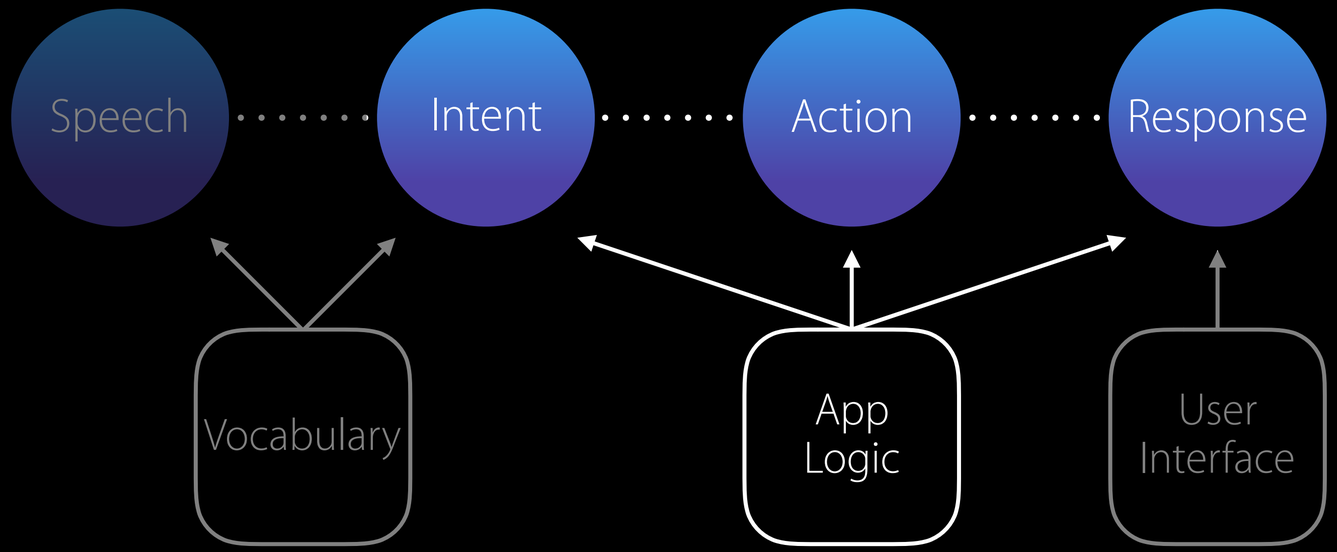
"Hey Siri, send a UnicornChat message to Celestra"

Recipient

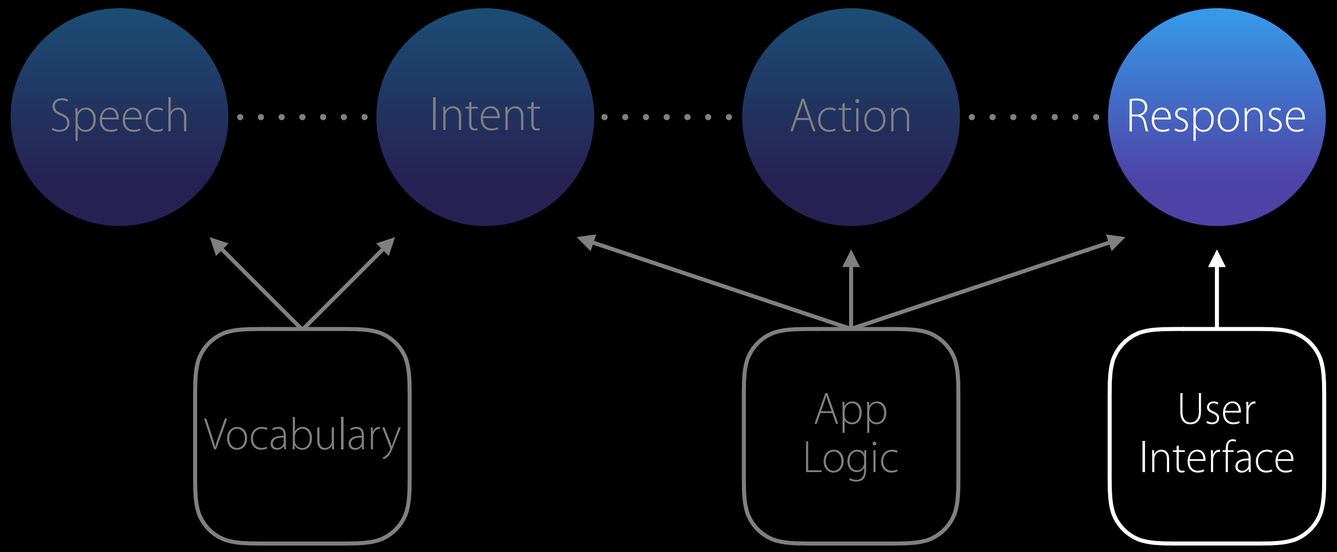
What do you want to say to Celestra?

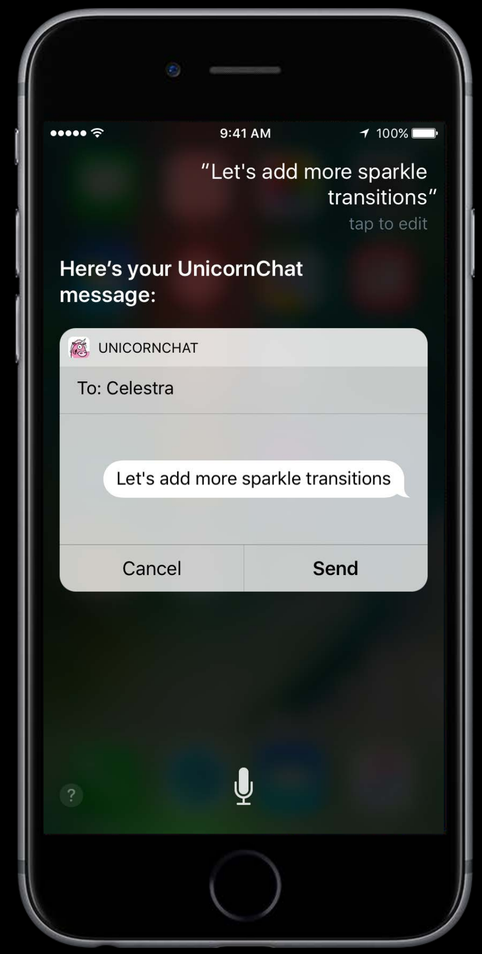
"Let's add more sparkle transitions"

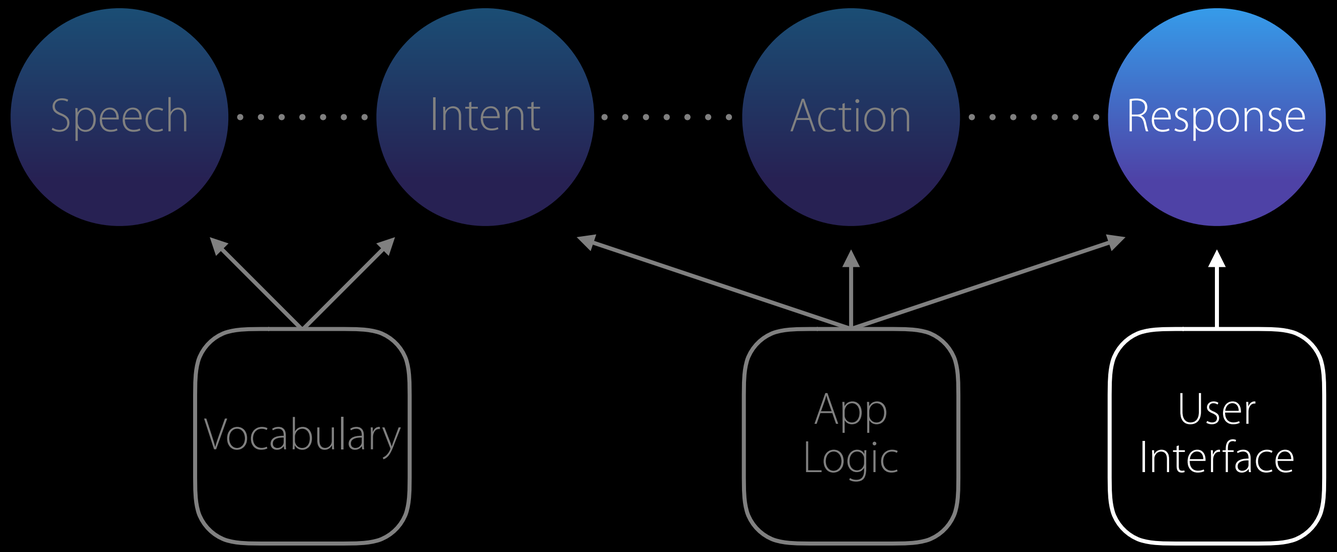
Content



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


Speech
Intent
Action
Response
Vocabulary
App Logic
User Interface


9:41 AM
100%
"Let's add more sparkle transitions"
tap to edit
Here's your UnicornChat message:
UNICORNCHAT
To: Celestra
Let's add more sparkle transitions
Cancel
Send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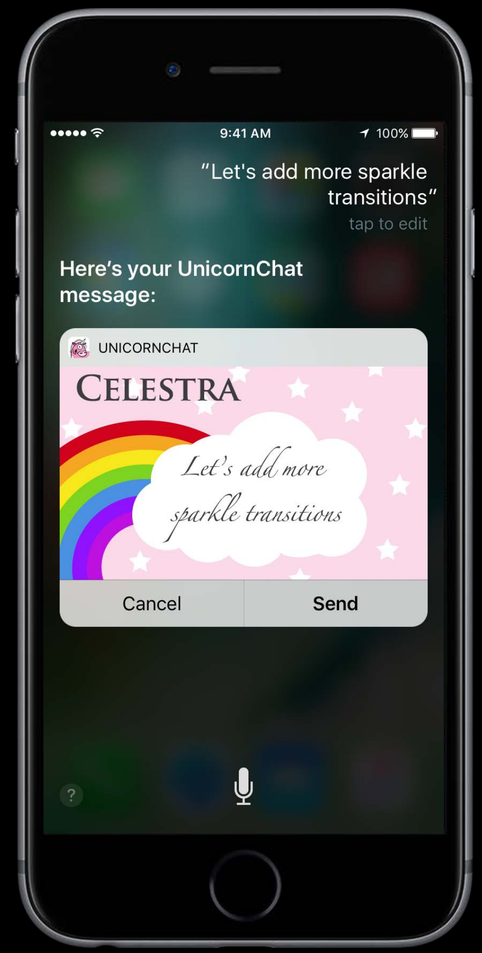

9:41 AM
100%
"Let's add more sparkle transitions"
tap to edit
Here's your UnicornChat message:
UNICORNCHAT
CELESTRA
Let's add more sparkle transitions
Cancel
Send

SiriKit

SiriKit

Simple

SiriKit

Simple

Powerful

Speaking Siri's Language

Brandon Newendorp SiriKit Engineering

Speaking Siri's Language

Speaking Siri's Language

Siri works in **domains**

Speaking Siri's Language

Siri works in **domains**

Messaging, VoIP calling, Payments, Workouts, Ride booking, Photo search

Speaking Siri's Language

Siri works in **domains**

Messaging, VoIP calling, Payments, Workouts, Ride booking, Photo search

Group of known actions, or **intents**

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Intent: sendPayment

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Intent: sendPayment

App: UnicornPay

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Intent: sendPayment

App: UnicornPay

Payee: Buttercup

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Intent: sendPayment

App: UnicornPay

Payee: Buttercup

Amount: 85

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Intent: sendPayment

App: UnicornPay

Payee: Buttercup

Amount: 85

Currency: USD

Speaking Siri's Language

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Intent: sendPayment

App: UnicornPay

Payee: Buttercup

Amount: 85

Currency: USD

Note: Rainbow polish

Speaking Siri's Language

Speaking Siri's Language

Common language

Speaking Siri's Language

Common language

Intents describe actions

Speaking Siri's Language

Common language

Intents describe actions

IntentResponses describe results

Speaking Siri's Language

Intent

Speaking Siri's Language

Intent

Action to be performed

Speaking Siri's Language

Intent

Action to be performed

Zero-to-many parameters

Speaking Siri's Language

Intent

Action to be performed

Zero-to-many parameters

Classified into a domain

Speaking Siri's Language

IntentResponse

Speaking Siri's Language

IntentResponse

Result of handling an intent

Speaking Siri's Language

IntentResponse

Result of handling an intent

Response code

Speaking Siri's Language

IntentResponse

Result of handling an intent

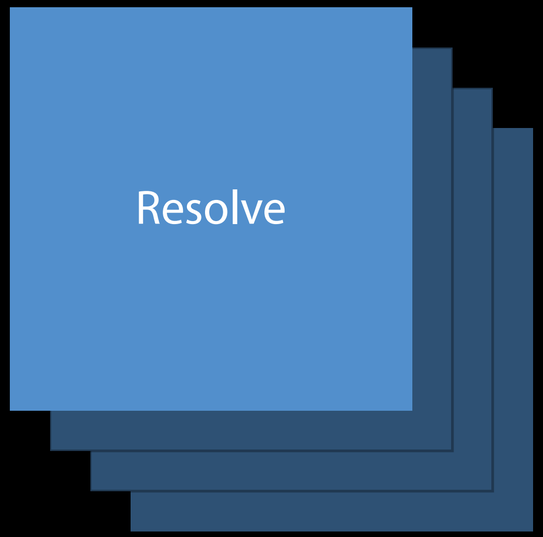
Response code

NSUserActivity

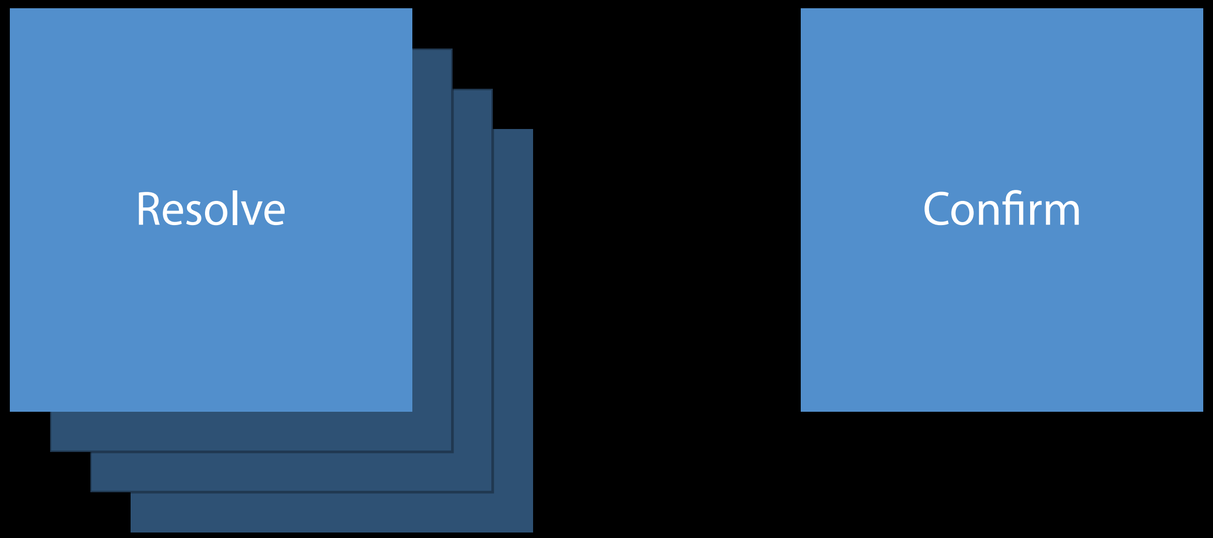
Lifecycle of an Intent

Lifecycle of an Intent

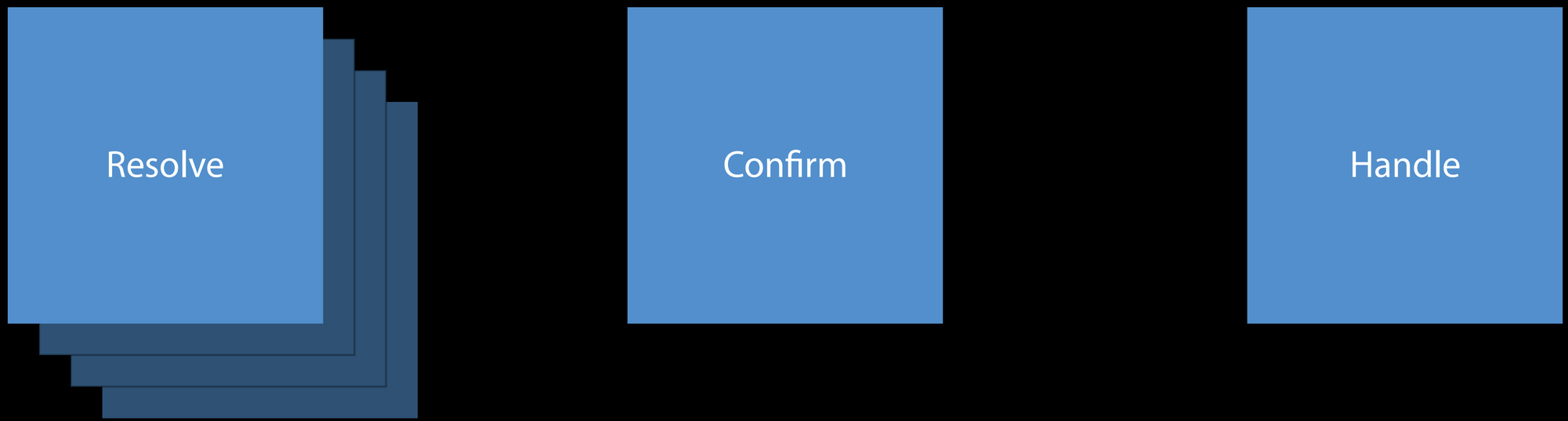
Lifecycle of an Intent



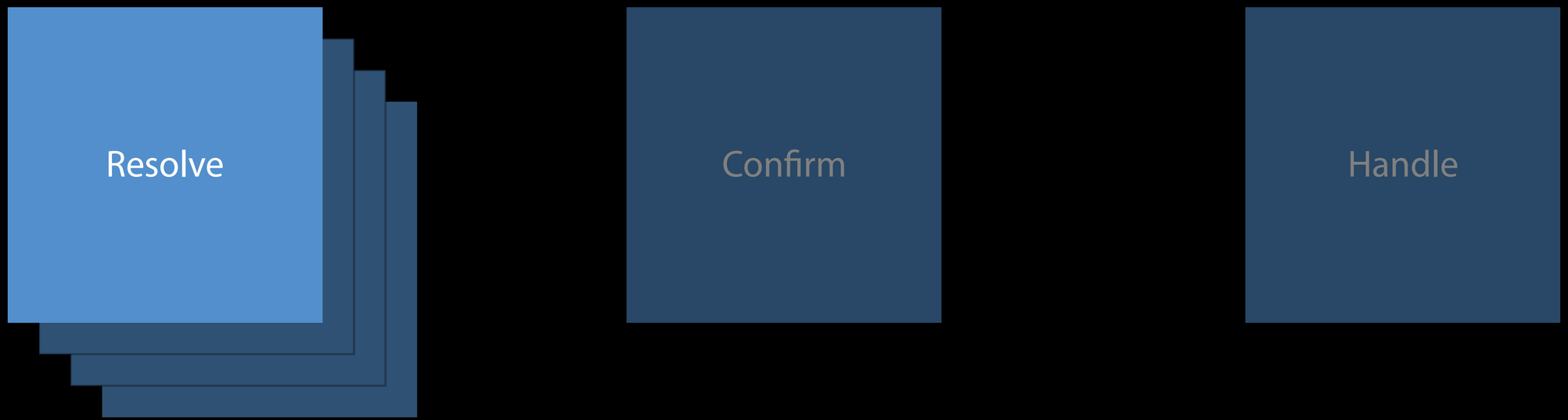
Lifecycle of an Intent



Lifecycle of an Intent



Lifecycle of an Intent



Lifecycle of an Intent

Resolve

Lifecycle of an Intent

Resolve

Help Siri understand the values the user provided

Lifecycle of an Intent

Resolve

Help Siri understand the values the user provided

Opportunity to influence Siri's behavior

Lifecycle of an Intent

Resolve

Help Siri understand the values the user provided

Opportunity to influence Siri's behavior

Provide resolution response

Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Domain: Payments

Intent: sendPayment

App: UnicornPay

Payee: Buttercup

Amount: 85

Currency: USD

Note: Rainbow polish

Lifecycle of an Intent

Resolve

`success(with:)`

Your app matched the user's request to a specific person

Lifecycle of an Intent

Resolve

`confirmationRequired(with:)`

Your app would like the user to confirm the resolved person

Lifecycle of an Intent

Resolve

`disambiguation(with:)`

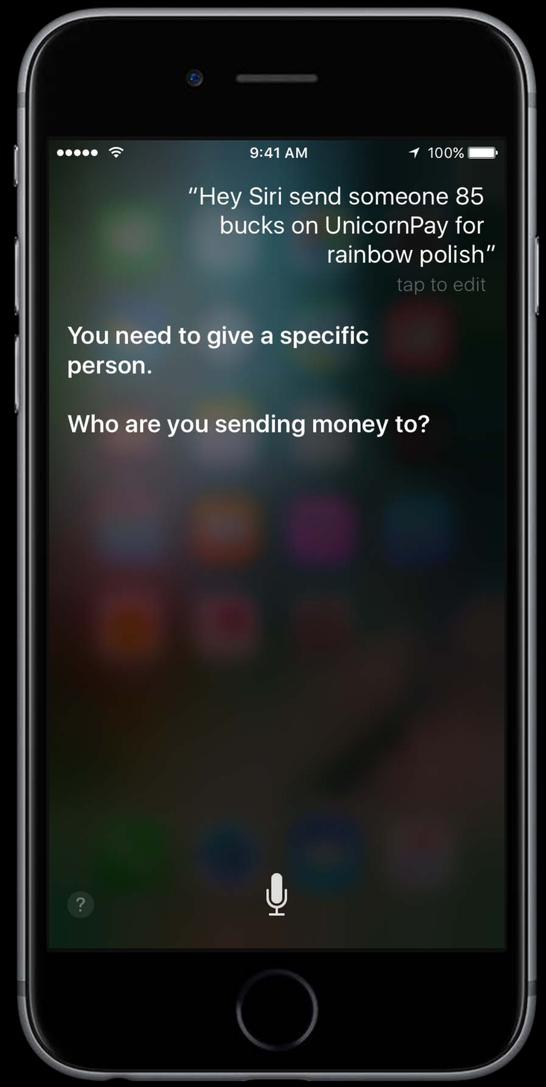
Your app needs the user to select from
a list of people

Lifecycle of an Intent

Resolve

`needsMoreDetails(for:)`

Your app had insufficient information to resolve the person, and would like Siri to ask the user to be more specific

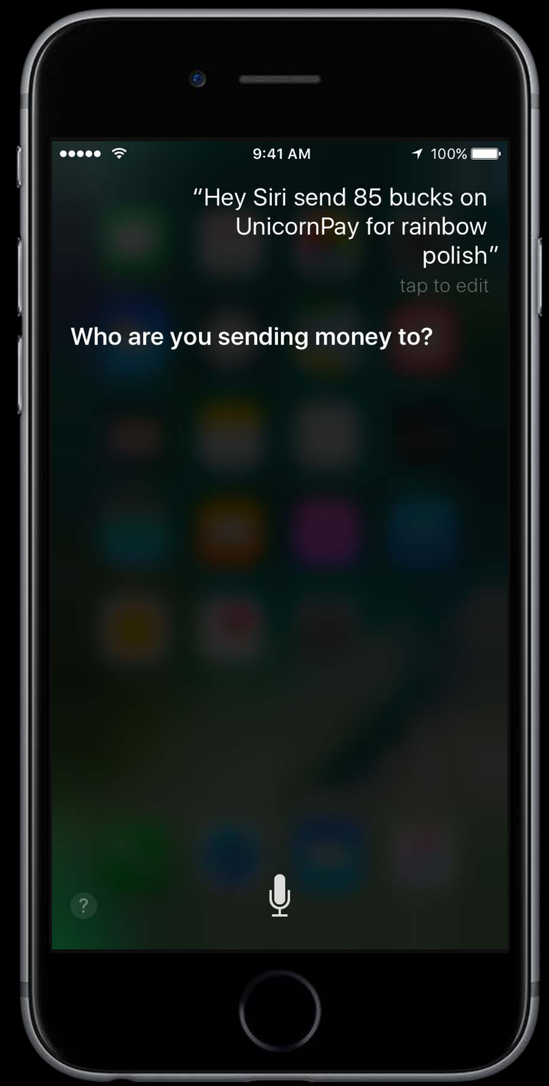


Lifecycle of an Intent

Resolve

`needsValue`

Your app requires a value be specified,
but no value was provided



Lifecycle of an Intent

Resolve

`unsupportedWithReason`

Your app can’t use the specified value

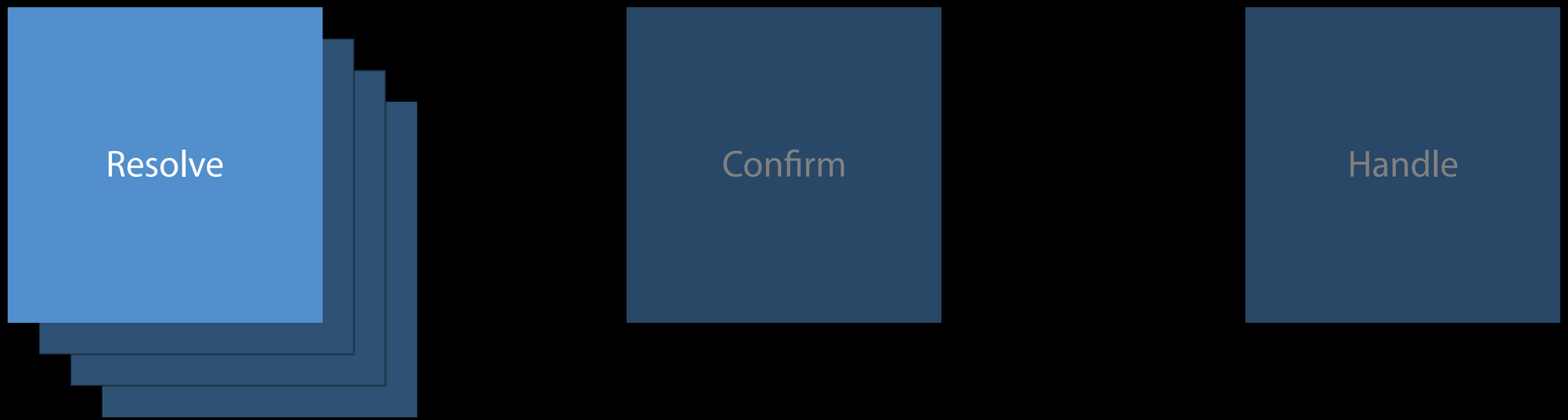
Lifecycle of an Intent

Resolve

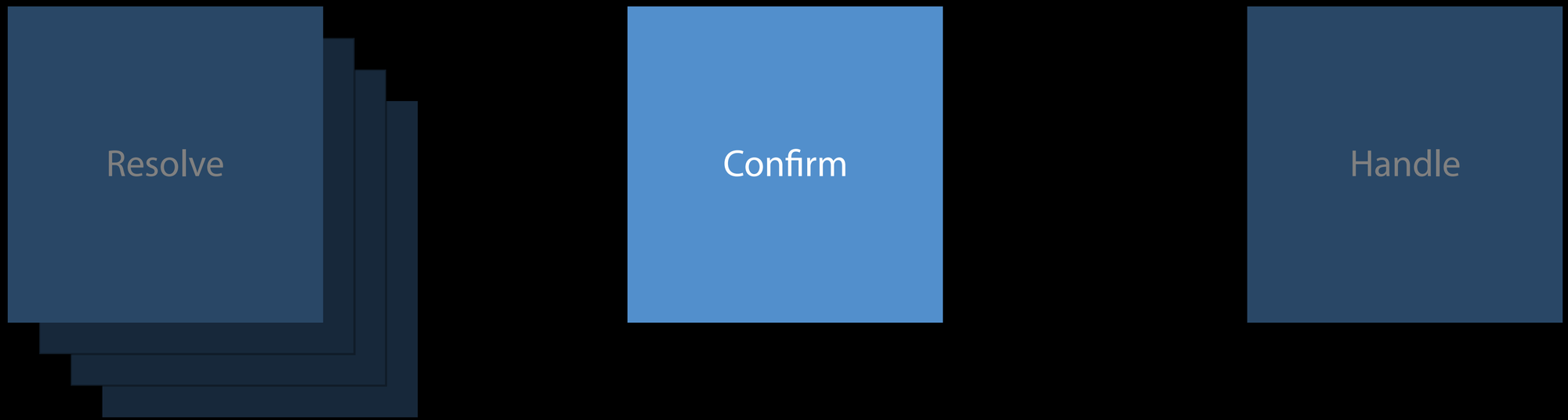
`notRequired`

Your app doesn’t require a value for this parameter

Lifecycle of an Intent



Lifecycle of an Intent



Lifecycle of an Intent

Confirm

Lifecycle of an Intent

Confirm

Tell Siri the expected result of an intent

Lifecycle of an Intent

Confirm

Tell Siri the expected result of an intent

Check required state

Lifecycle of an Intent

Confirm

Tell Siri the expected result of an intent

Check required state

Provide an intent response

Lifecycle of an Intent

Confirm

Tell Siri the expected result of an intent

Check required state

Provide an intent response

Siri prompts for confirmation as necessary

Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Service available? ✓

Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Service available? ✓

Signed in? ✓

Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Service available? ✓

Signed in? ✓

Sufficient balance? ✓

Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Service available?

Signed in?

Sufficient balance?

IntentResponse

ResultCode: Success

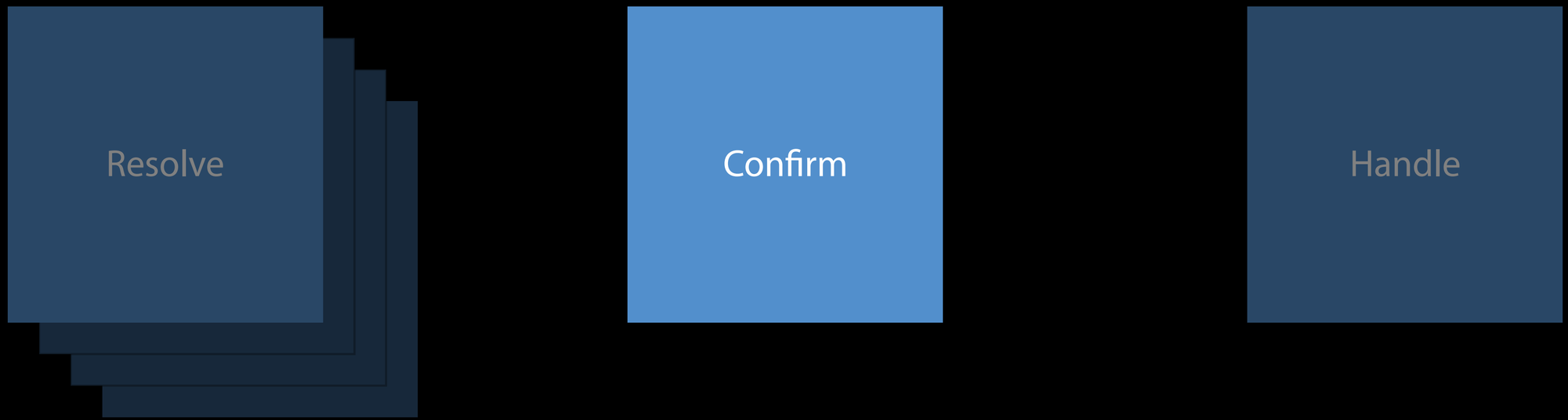
Payee: Buttercup

Amount: 85

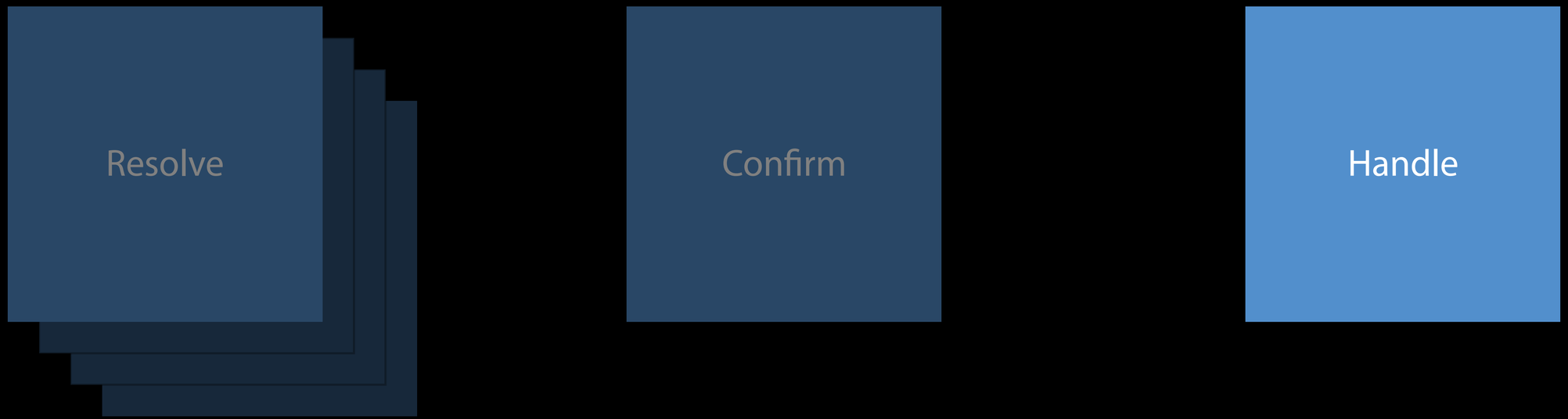
Currency: USD

Note: Rainbow polish

Lifecycle of an Intent



Lifecycle of an Intent



Lifecycle of an Intent

Handle

Lifecycle of an Intent

Handle

Perform the requested action

Lifecycle of an Intent

Handle

Perform the requested action

Provide as much information about the result as possible

Lifecycle of an Intent

Handle

Lifecycle of an Intent

Handle

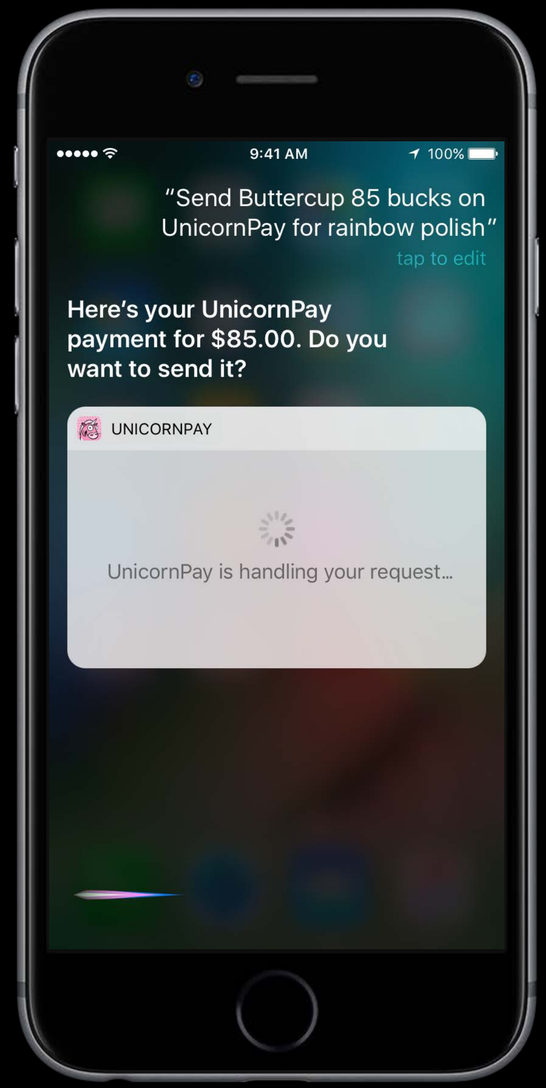
Network calls can take time

Lifecycle of an Intent

Handle

Network calls can take time

Siri shows waiting UI



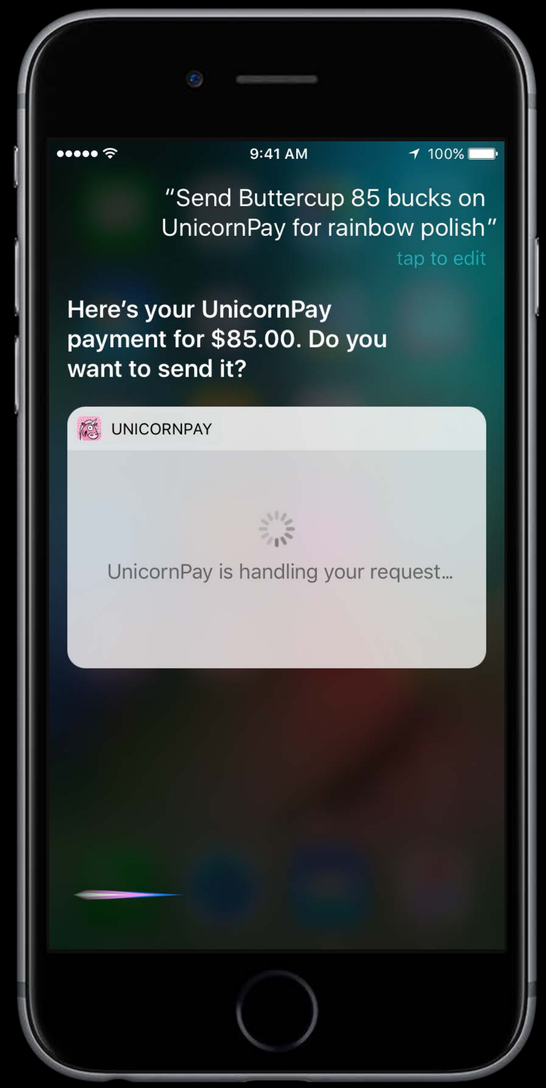
Lifecycle of an Intent

Handle

Network calls can take time

Siri shows waiting UI

Provide response within a few seconds



Lifecycle of an Intent

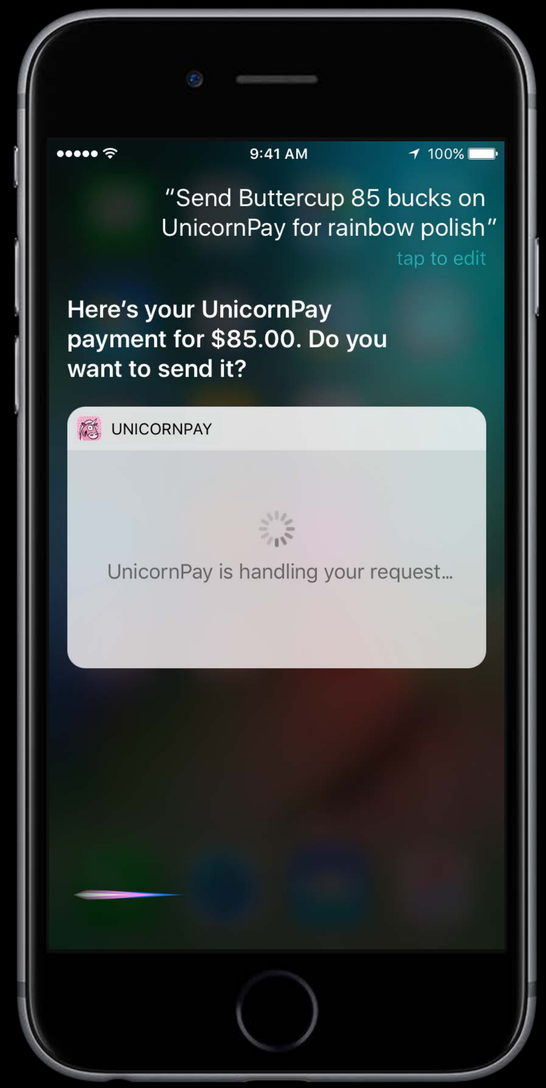
Handle

Network calls can take time

Siri shows waiting UI

Provide response within a few seconds

Otherwise use `InProgress` response code



Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

Lifecycle of an Intent

"Hey Siri, send Buttercup 85 bucks on UnicornPay for rainbow polish"

IntentResponse

ResultCode: Success

Payee: Buttercup

Amount: 85

Currency: USD

Note: Rainbow polish

Adding SiriKit to Your App

Adding SiriKit

Adding SiriKit

Two new extension points

Adding SiriKit

Two new extension points

- Intents extension

Adding SiriKit

Two new extension points

- Intents extension
- Intents UI extension

Adding SiriKit

Two new extension points

- Intents extension
- Intents UI extension

Provide words and phrases to aid recognition

Adding SiriKit

Two new extension points

- Intents extension
- Intents UI extension

Provide words and phrases to aid recognition

- App vocabulary

Adding SiriKit

Two new extension points

- Intents extension
- Intents UI extension

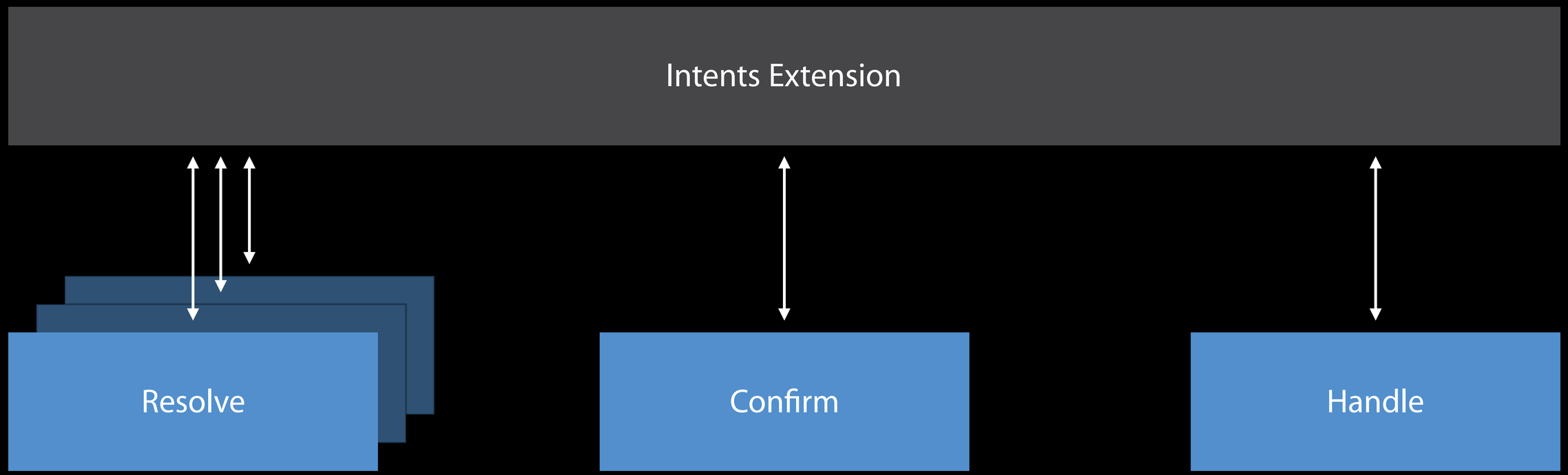
Provide words and phrases to aid recognition

- App vocabulary
- User vocabulary

Adding SiriKit

Intents Extension

Adding SiriKit



Adding SiriKit

Intents extension

Adding SiriKit

Intents extension

Basis of SiriKit

Adding SiriKit

Intents extension

Basis of SiriKit

Supports one or more intents

Adding SiriKit

Intents extension

Basis of SiriKit

Supports one or more intents

Runs in the background while Siri is active

Adding SiriKit

Intents extension

Basis of SiriKit

Supports one or more intents

Runs in the background while Siri is active

Implements resolve, confirm, and handle methods

Adding SiriKit

Security

Adding SiriKit

Security

Restrict while locked

Adding SiriKit

Security

Restrict while locked

Local Authentication framework

Keychain and Authentication with Touch ID

WWDC 2014

Adding SiriKit

Security

NEW

Restrict while locked

Local Authentication framework

Apple Pay support

What's New with Wallet and Apple Pay	Mission	Tuesday 3:00PM
Keychain and Authentication with Touch ID		WWDC 2014

Adding SiriKit

Intents Extension

Adding SiriKit

Intents Extension

Adding SiriKit

Intents Extension

Intents UI Extension

Adding SiriKit

Intents Extension

Intents UI Extension

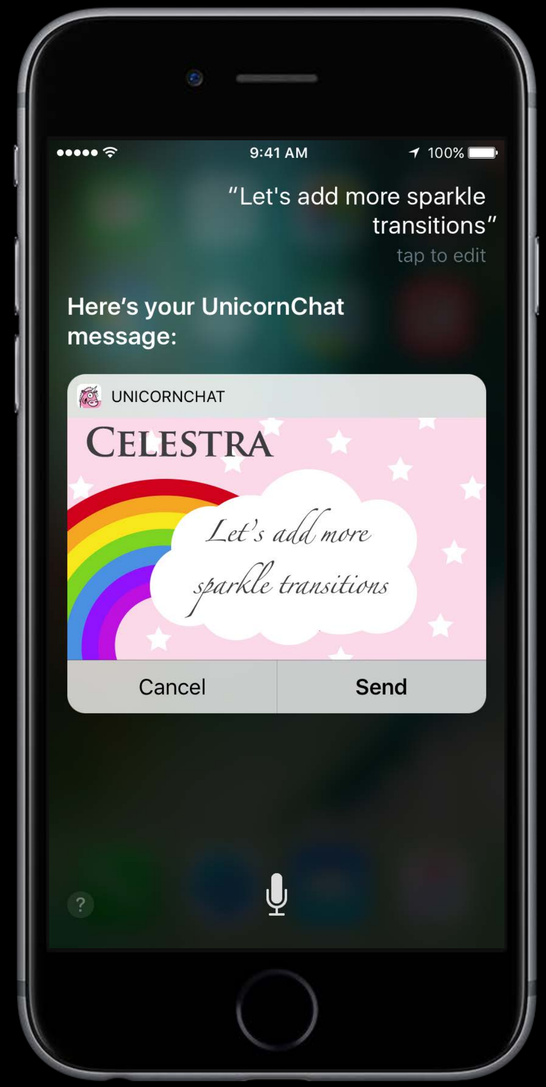
Adding SiriKit

Intents UI extension

Adding SiriKit

Intents UI extension

Bring your app's interface into Siri

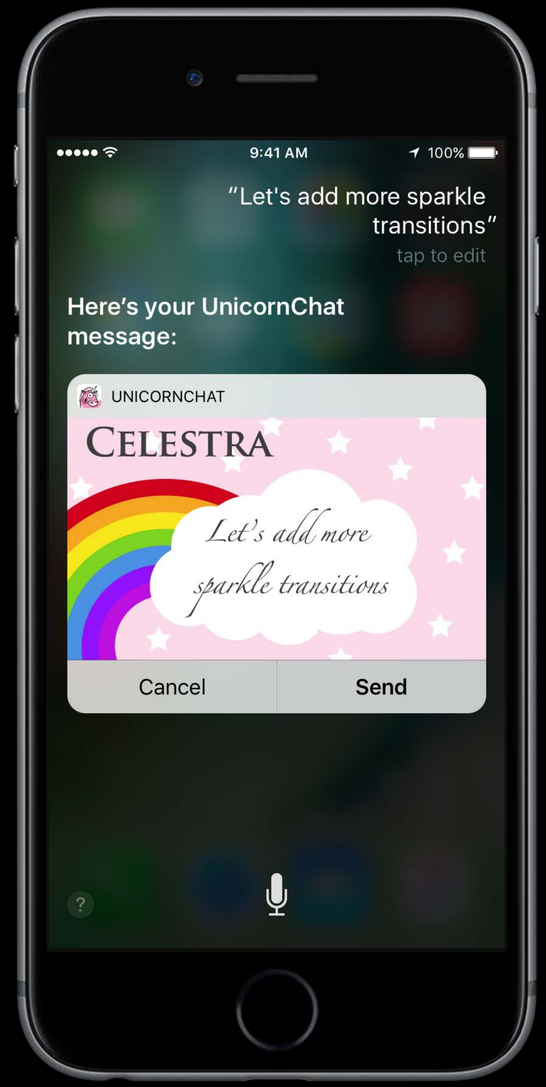


Adding SiriKit

Intents UI extension

Bring your app's interface into Siri

Provide a UIViewController



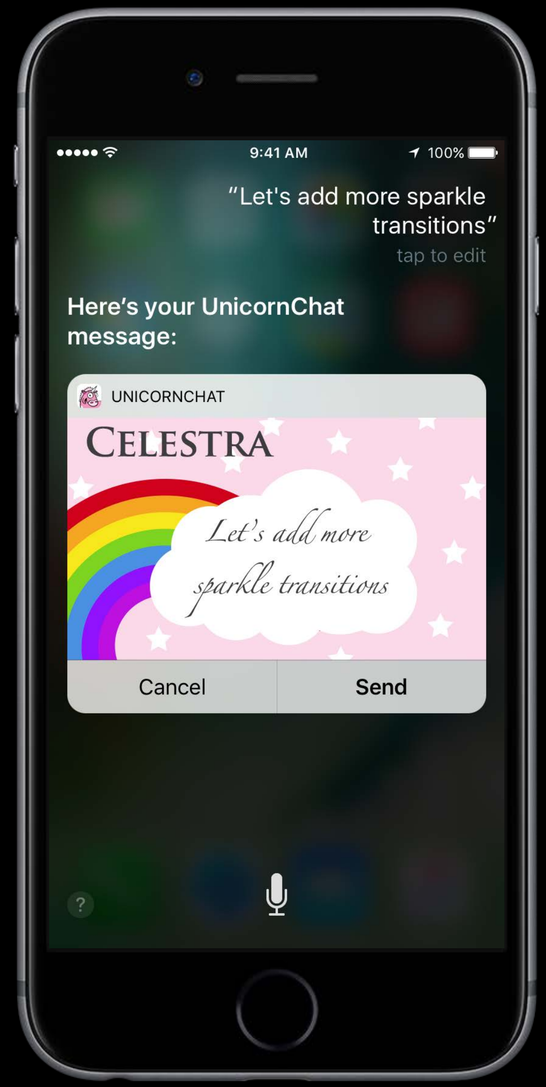
Adding SiriKit

Intents UI extension

Bring your app's interface into Siri

Provide a UIViewController

Optional



Adding SiriKit

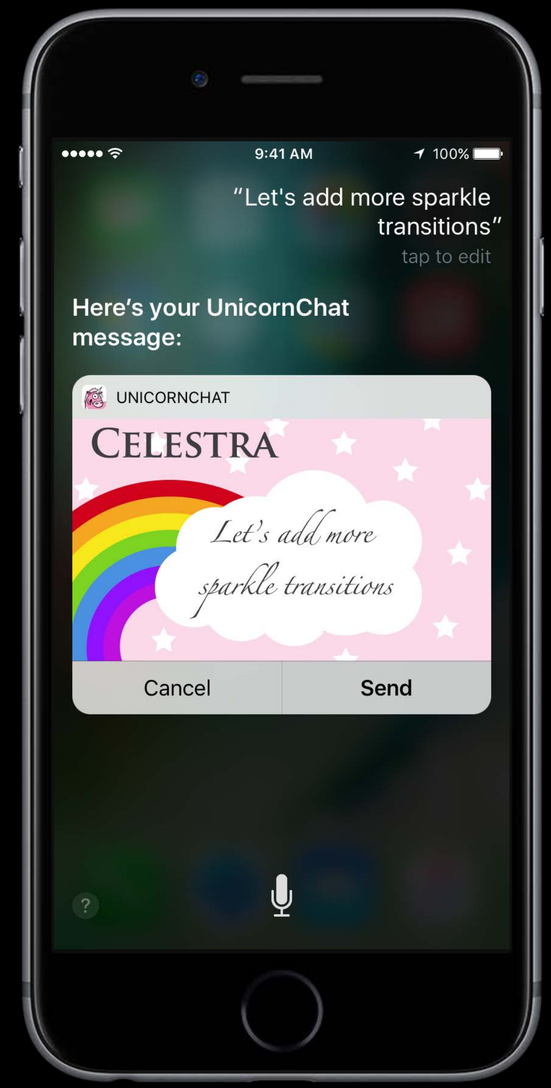
Intents UI extension

Bring your app's interface into Siri

Provide a UIViewController

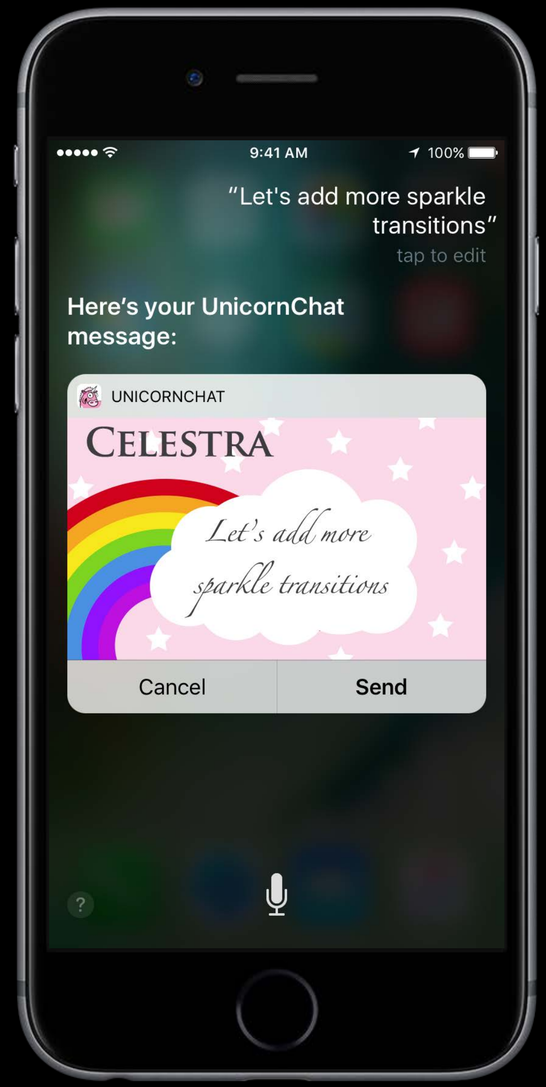
Optional

Available for certain intents



Adding SiriKit

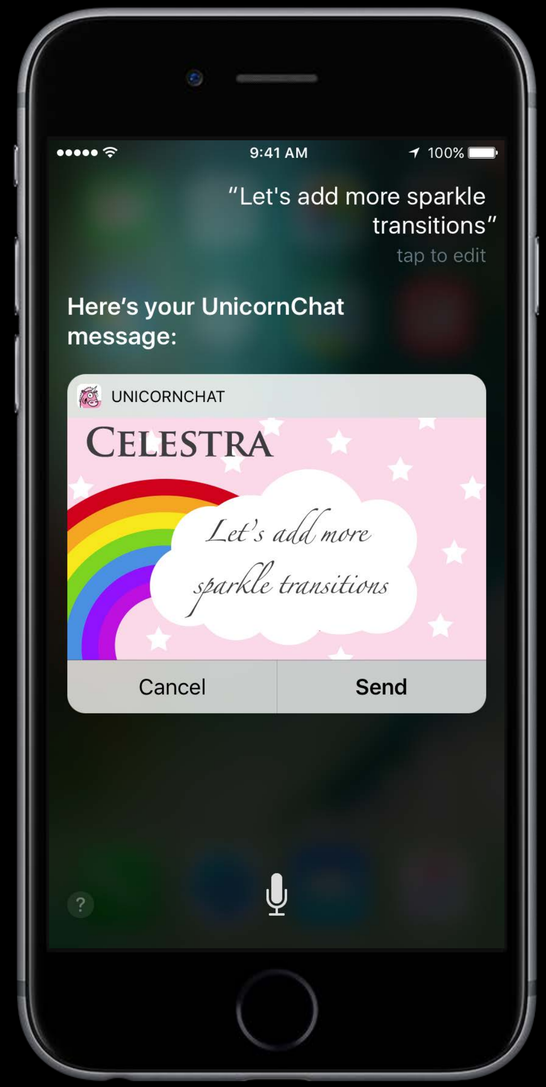
Intents UI extension



Adding SiriKit

Intents UI extension

Show additional information

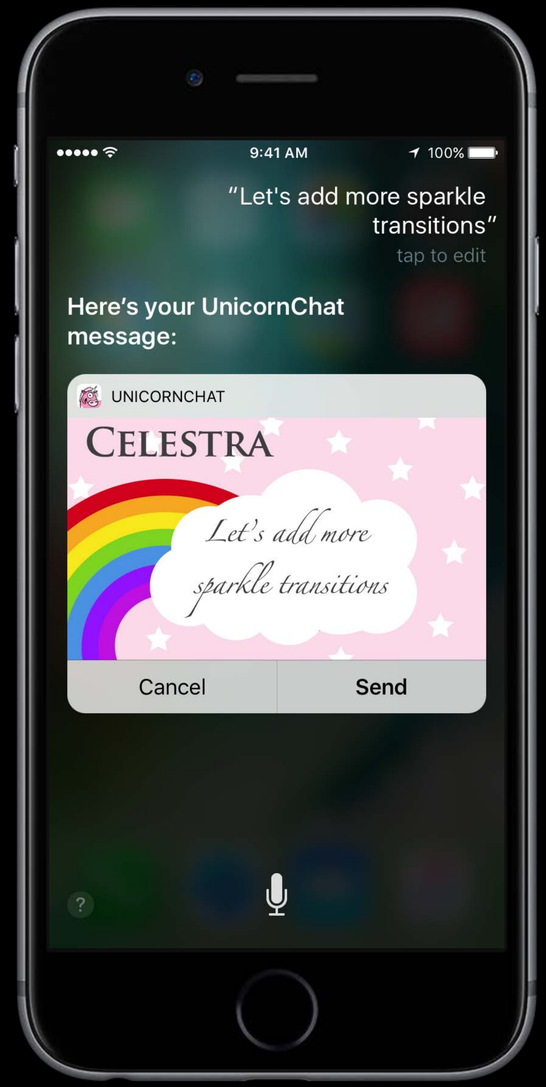


Adding SiriKit

Intents UI extension

Show additional information

Update status



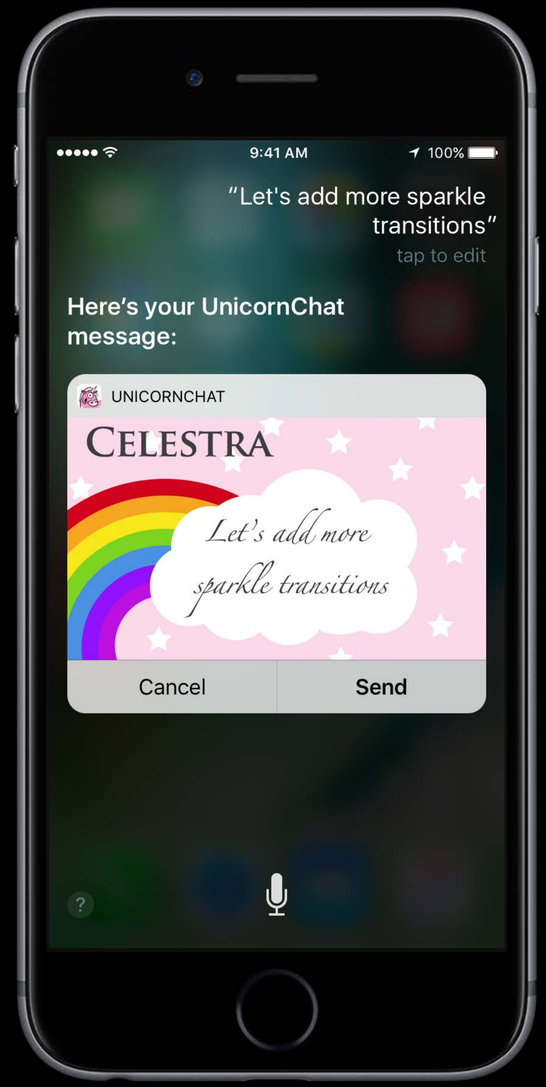
Adding SiriKit

Intents UI extension

Show additional information

Update status

Displayed alongside Siri content



Adding SiriKit

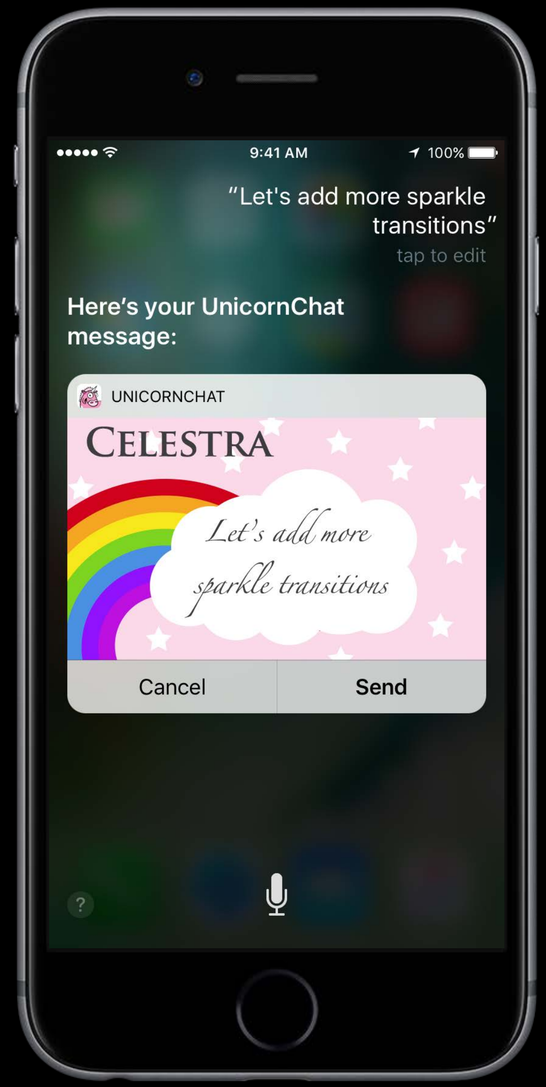
Intents UI extension

Show additional information

Update status

Displayed alongside Siri content

Can replace select Siri interface elements



Adding SiriKit

Intents UI extension

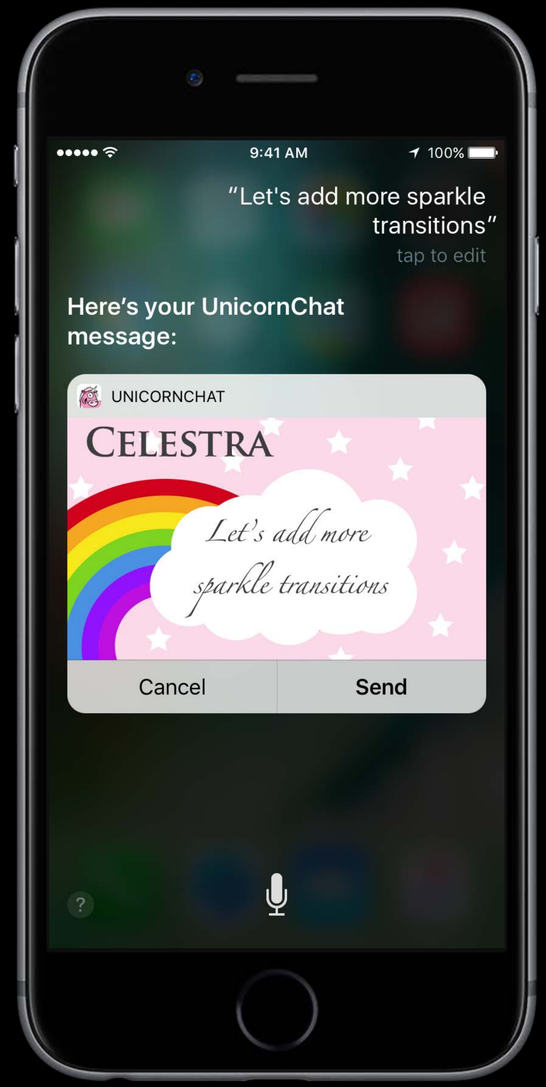
Show additional information

Update status

Displayed alongside Siri content

Can replace select Siri interface elements

Not interactive



Adding SiriKit

Intents Extension

Intents UI Extension

Adding SiriKit

Intents Extension

Intents UI Extension

Adding SiriKit

Intents Extension

Intents UI Extension

App

Adding SiriKit

Intents Extension

Intents UI Extension

App

Adding SiriKit

Vocabulary

Adding SiriKit

Vocabulary

Many apps have unique ways of describing things

Adding SiriKit

Vocabulary

Many apps have unique ways of describing things

Siri needs your assistance to understand words and phrases unique to your app

Adding SiriKit

Vocabulary

Many apps have unique ways of describing things

Siri needs your assistance to understand words and phrases unique to your app

Some phrases are part of your app

Adding SiriKit

Vocabulary

Many apps have unique ways of describing things

Siri needs your assistance to understand words and phrases unique to your app

Some phrases are part of your app

Other phrases are unique to the user of your app

Adding SiriKit

App-specific vocabulary

Adding SiriKit

App-specific vocabulary

Words and phrases that are part of your app

Adding SiriKit

App-specific vocabulary

Words and phrases that are part of your app

Known to all users of your app

Adding SiriKit

App-specific vocabulary

Words and phrases that are part of your app

Known to all users of your app

Defined in a plist

Adding SiriKit

App-specific vocabulary

Words and phrases that are part of your app

Known to all users of your app

Defined in a plist

Localized

Adding SiriKit

App-specific vocabulary

Vocabulary plist

Adding SiriKit

App-specific vocabulary

Vocabulary plist

Example Uses for App

Start a workout with UnicornFit

Adding SiriKit

App-specific vocabulary

Vocabulary plist

Example Uses for App

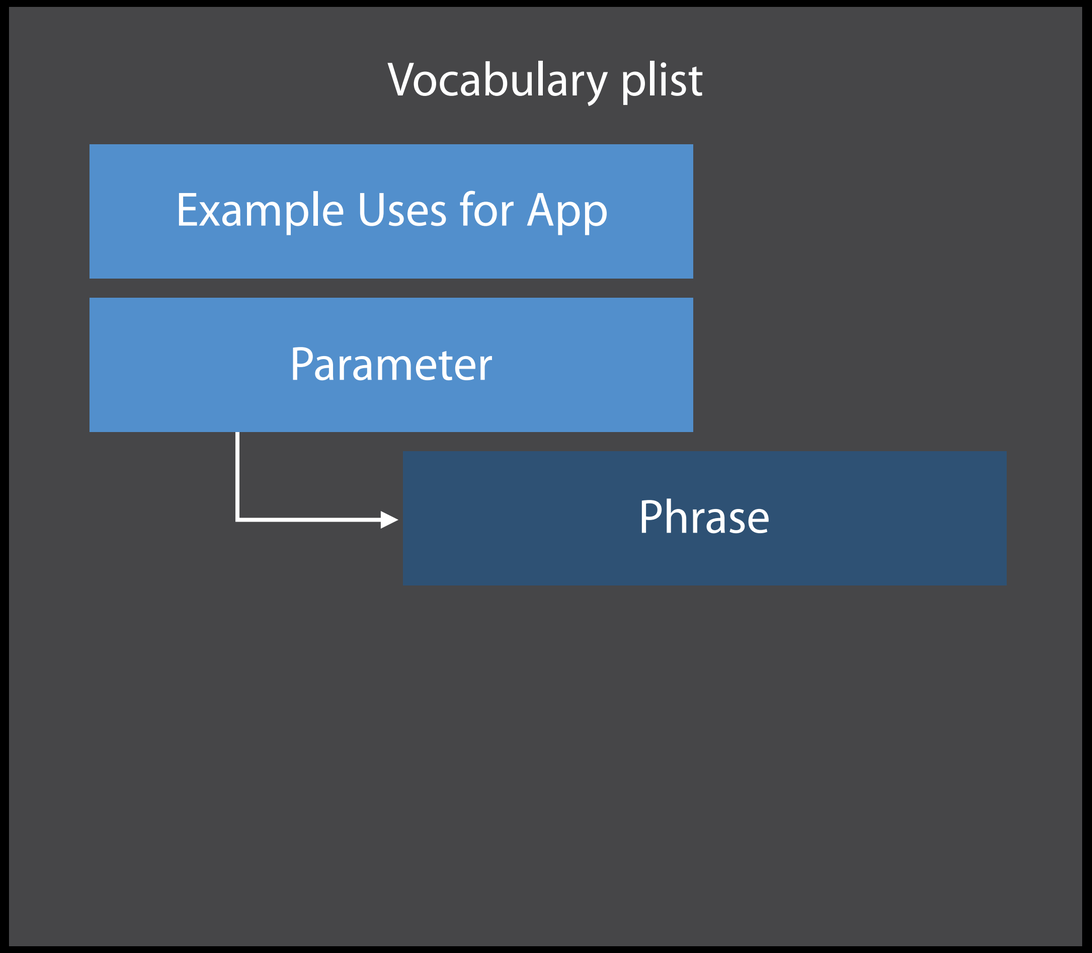
Parameter

Start a workout with UnicornFit

workoutName

Adding SiriKit

App-specific vocabulary



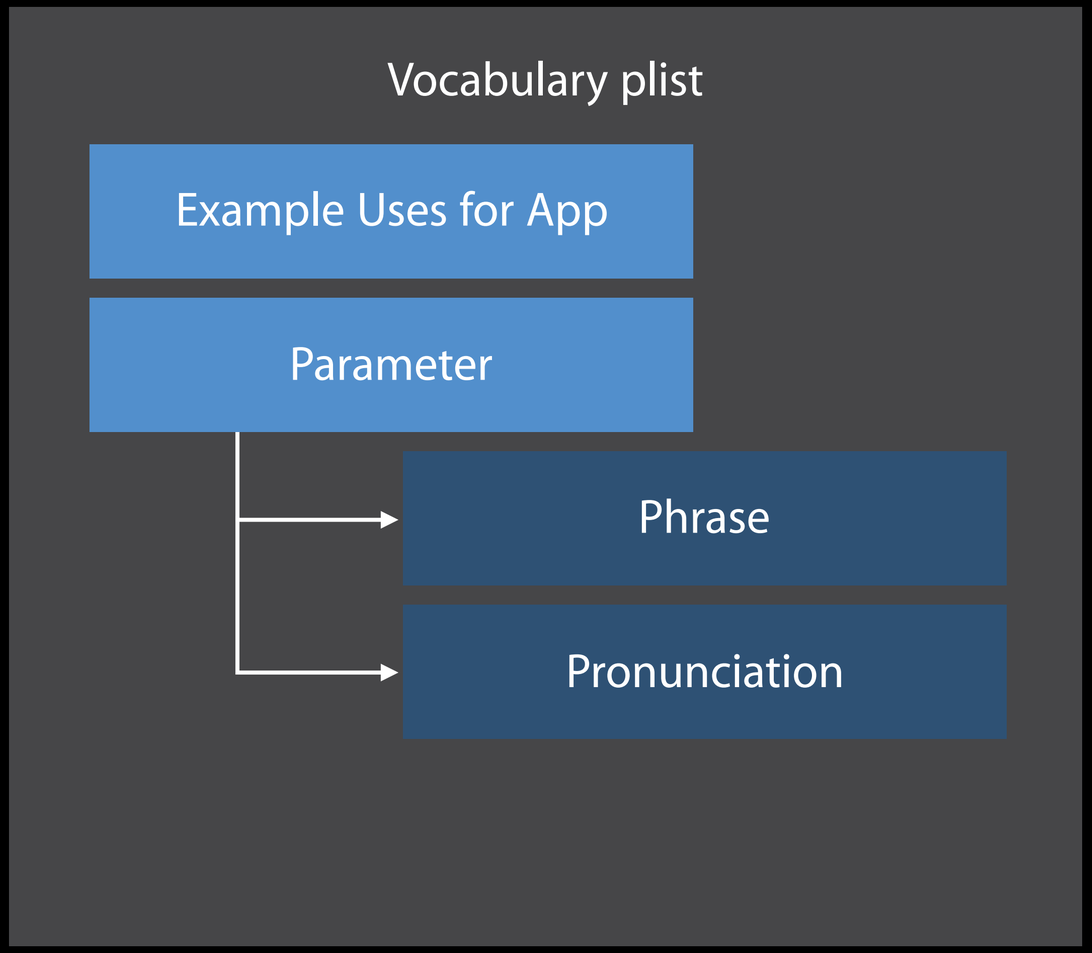
Start a workout with UnicornFit

workoutName

Colorlicious

Adding SiriKit

App-specific vocabulary



Start a workout with UnicornFit

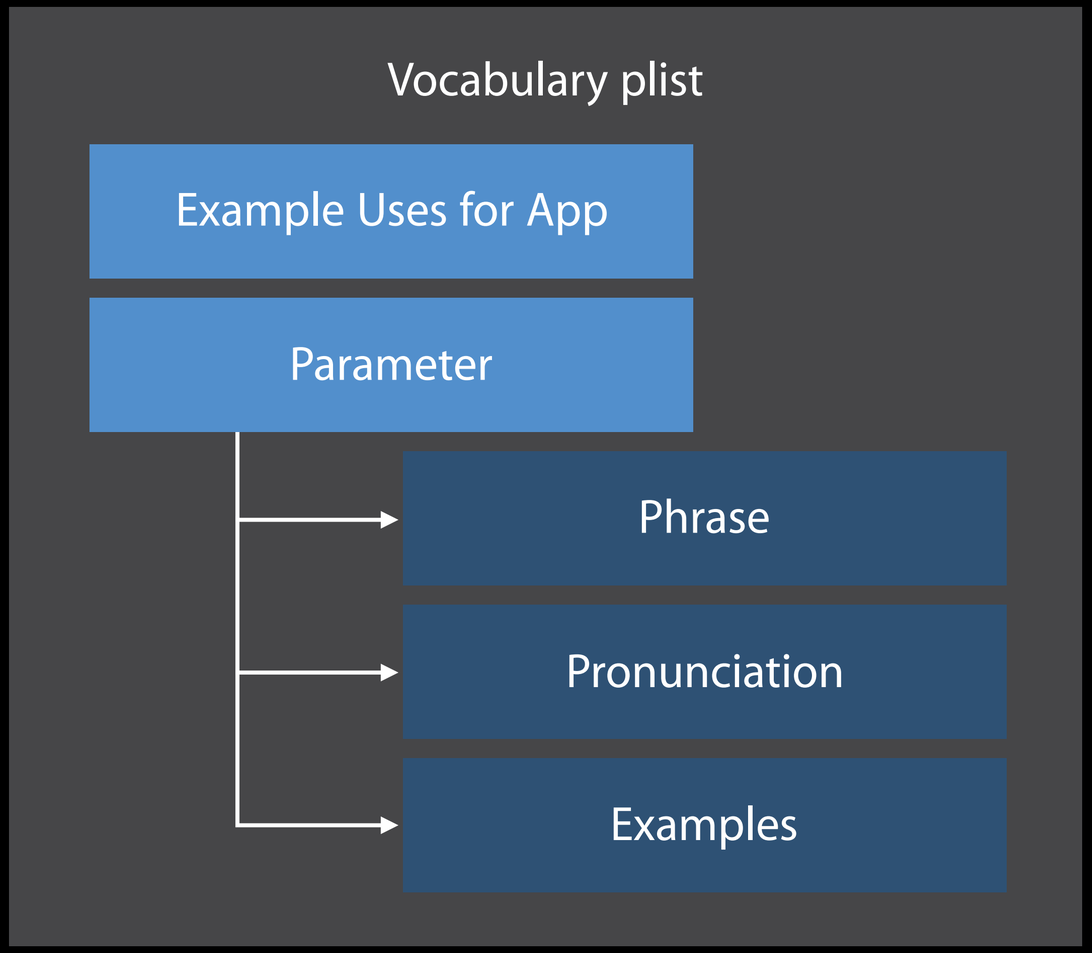
workoutName

Colorlicious

colorlishus

Adding SiriKit

App-specific vocabulary



Start a workout with UnicornFit

workoutName

Colorlicious

colorlishus

Do a Colorlicious in UnicornFit

Adding SiriKit

User-specific vocabulary

Adding SiriKit

User-specific vocabulary

Terminology that's specific to an individual user

Adding SiriKit

User-specific vocabulary

Terminology that's specific to an individual user

Provided by your app

Adding SiriKit

User-specific vocabulary

Terminology that's specific to an individual user

Provided by your app

`OrderedSet` of terms

Adding SiriKit

User-specific vocabulary

All Contacts

Adding SiriKit

User-specific vocabulary

Other Contacts

Adding SiriKit

User-specific vocabulary

Recent Contacts

Other Contacts

Adding SiriKit

User-specific vocabulary

Recent Contacts

Other Contacts

Adding SiriKit

User-specific vocabulary

Favorites

Recent Contacts

Other Contacts

Adding SiriKit

User-specific vocabulary

Adding SiriKit

User-specific vocabulary

Contacts, workout names, photo albums, photo keywords

Adding SiriKit

User-specific vocabulary

Contacts, workout names, photo albums, photo keywords

- iOS address book is already available to Siri

Adding SiriKit

User-specific vocabulary

Contacts, workout names, photo albums, photo keywords

- iOS address book is already available to Siri

Only provide necessary values

Adding SiriKit

User-specific vocabulary

Contacts, workout names, photo albums, photo keywords

- iOS address book is already available to Siri

Only provide necessary values

Send data on changes

Adding SiriKit

User-specific vocabulary

Contacts, workout names, photo albums, photo keywords

- iOS address book is already available to Siri

Only provide necessary values

Send data on changes

Delete promptly

Adding SiriKit

User-specific vocabulary

Contacts, workout names, photo albums, photo keywords

- iOS address book is already available to Siri

Only provide necessary values

Send data on changes

Delete promptly

Remove all vocabulary when needed

Adding SiriKit

Permissions

Adding SiriKit

Permissions

Request authorization

Adding SiriKit

Permissions

Request authorization

Adding SiriKit

Permissions

Request authorization

Explain what data goes to Siri

Adding SiriKit

Permissions

Request authorization

Explain what data goes to Siri

Request permission from your app

SiriKit and iOS

SiriKit and iOS

SiriKit and iOS

Siri is an integral part of iOS

SiriKit and iOS

Siri is an integral part of iOS

`Intents.framework`

SiriKit and iOS

Siri is an integral part of iOS

`Intents.framework`

Contacts integration

SiriKit and iOS

Siri is an integral part of iOS

`Intents.framework`

Contacts integration

CallKit

9:41 AM 100%

To Boulevard
From Your Location

PURPLECAB

PurpleCab
2 min wait · Max 4 people
$7-12 BOOK

PurplePool
2 min wait · Max 2 people
$4.75 BOOK

PurpleSUV
4 min wait · Max 4 people
$16-20 BOOK

PurpleLimo
4 min wait · Max 4 people
$16-20 BOOK

Open PurpleCab

Drive Walk Transit Ride

9:41 AM 100%

Move the map to set your pickup location.

Fay Park
Cobb's Comedy Club
Beacon Coffee & Pantry
Lombard St
Greenwich St
Michelangelo Playground
Leavenworth St
Filbert St
Taylor St
Havens St
Blue Cafe
Union St
Macondray Ln
Jones St
2 min

To Boulevard
From 2165 Jones St

Requesting PurpleCab...

9:41 AM 100%

Francisco St
San Francisco Art Institute
Fay Park
Lombard St
LOMBARD STREET
Hyde St
RUSSIAN HILL
Greenwich St
Michelangelo Playground
Filbert St
Havens St
Jones St
2 min

To Boulevard
From My Location

PurpleCab arrives in 2 min
Brett · 1APL941

For Free!

Selecting Your App

Selecting Your App

User must say the name of your app

Selecting Your App

User must say the name of your app

Bundle display name

Selecting Your App

User must say the name of your app

Bundle display name

Can be used in many parts of speech

Selecting Your App

User must say the name of your app

Bundle display name

Can be used in many parts of speech

Verbing the app name

Selecting Your App

User must say the name of your app

Bundle display name

Can be used in many parts of speech

Verbing the app name

- “UnicornChat Celestra order five rainbow rolls please”

End my UniDuel in UnicornFit

Call Lucky Moontrotter using UnicornChat

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

Designing a Great Siri Experience

Corey Peterson SiriKit Design

Design Topics

Design Topics

How Siri helps you

Design Topics

How Siri helps you

Design guidelines

Design Topics

How Siri helps you

Design guidelines

Polish the design

User Interface

Send

Conversational Interface

Conversational Interface

Context through conversation

Conversational Interface

Context through conversation

Information in the user's head

Conversational Interface

Context through conversation

Information in the user's head

Shaped by questions and responses

Conversational Interface

Context through conversation

Information in the user's head

Shaped by questions and responses

- Important to think about *how* Siri asks and responds

Ready to Send It?

Ready to Send It?

“Send it”

Ready to Send It?

“Send it”

“No”

Ready to Send It?

“Send it”

“No”

“Cancel”

Ready to Send It?

"Send it"

"No"

"Cancel"

"Read it to me again"

Ready to Send It?

"Send it"

"No"

"Cancel"

"Read it to me again"

"Change it"

Ready to Send It?

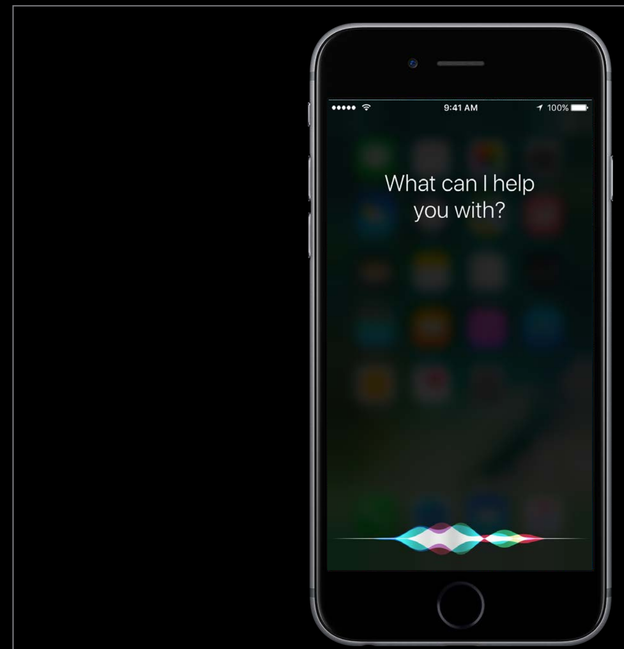
"Yes" "Yes please" "Send" "Send it" "OK" "Yes thank you" "Do i

anks" "Don't do it" "Not yet" "No" "I'm not ready" "Nope" "Nah"

rd the message" "Cancel it" "Cancel" "Cancel the message" "Disc

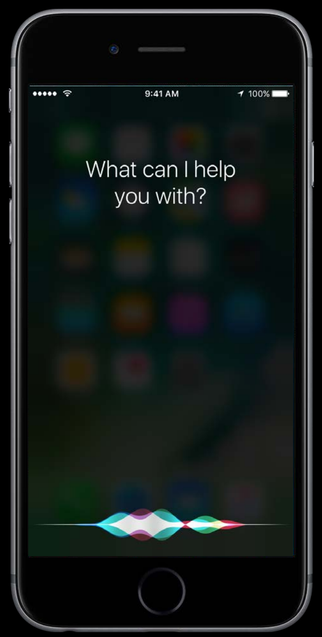
it" "What does it say" "Read it to me again" "Read it back to me"

t" "Send it to Eric instead" "Change it" "Edit the message" "Chan


9:41 AM
100%
What can I help you with?

HOCOLATE CHIP COOKIES

9:41
LTE
What can I help you with?


9:41 AM
100%
What can I help
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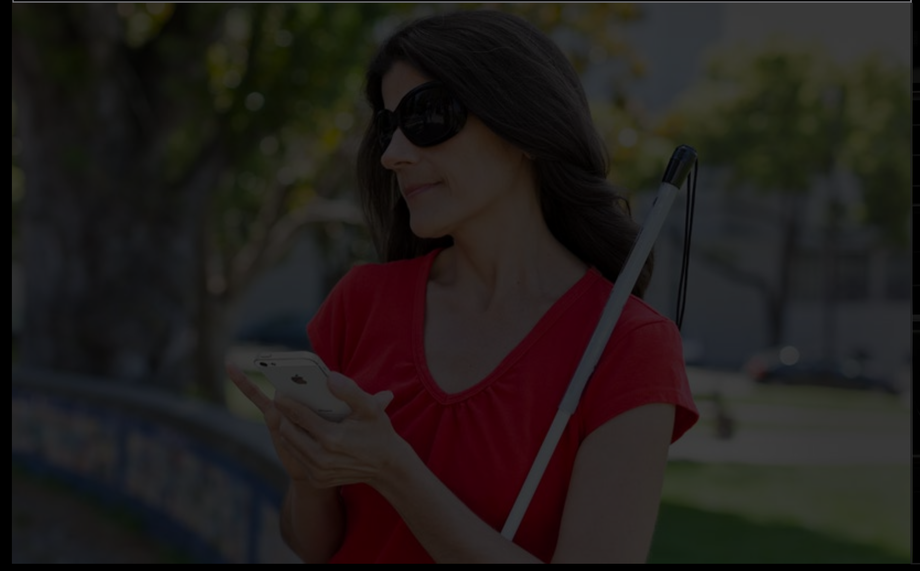
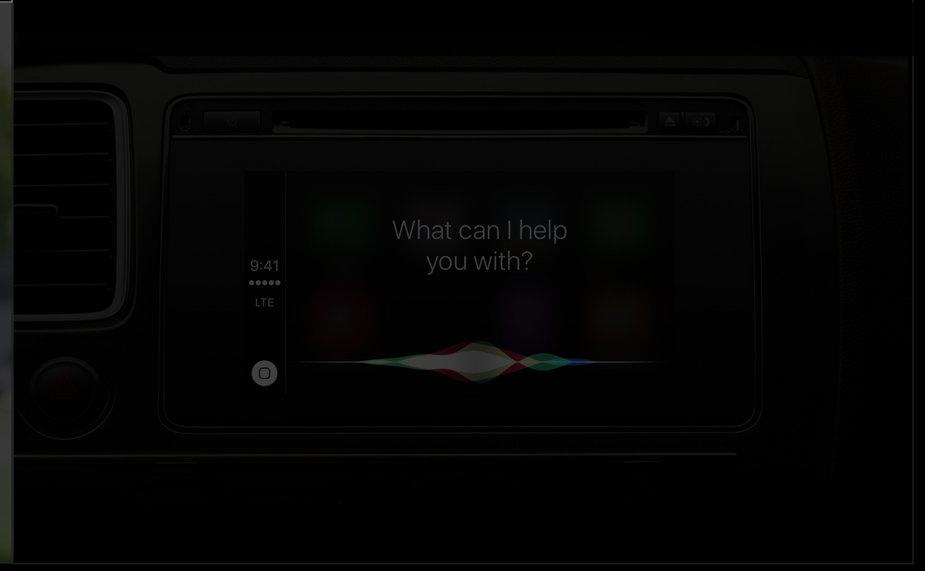
HOCOLATE
CHIP
COOKIES




9:41
LTE
What can I help
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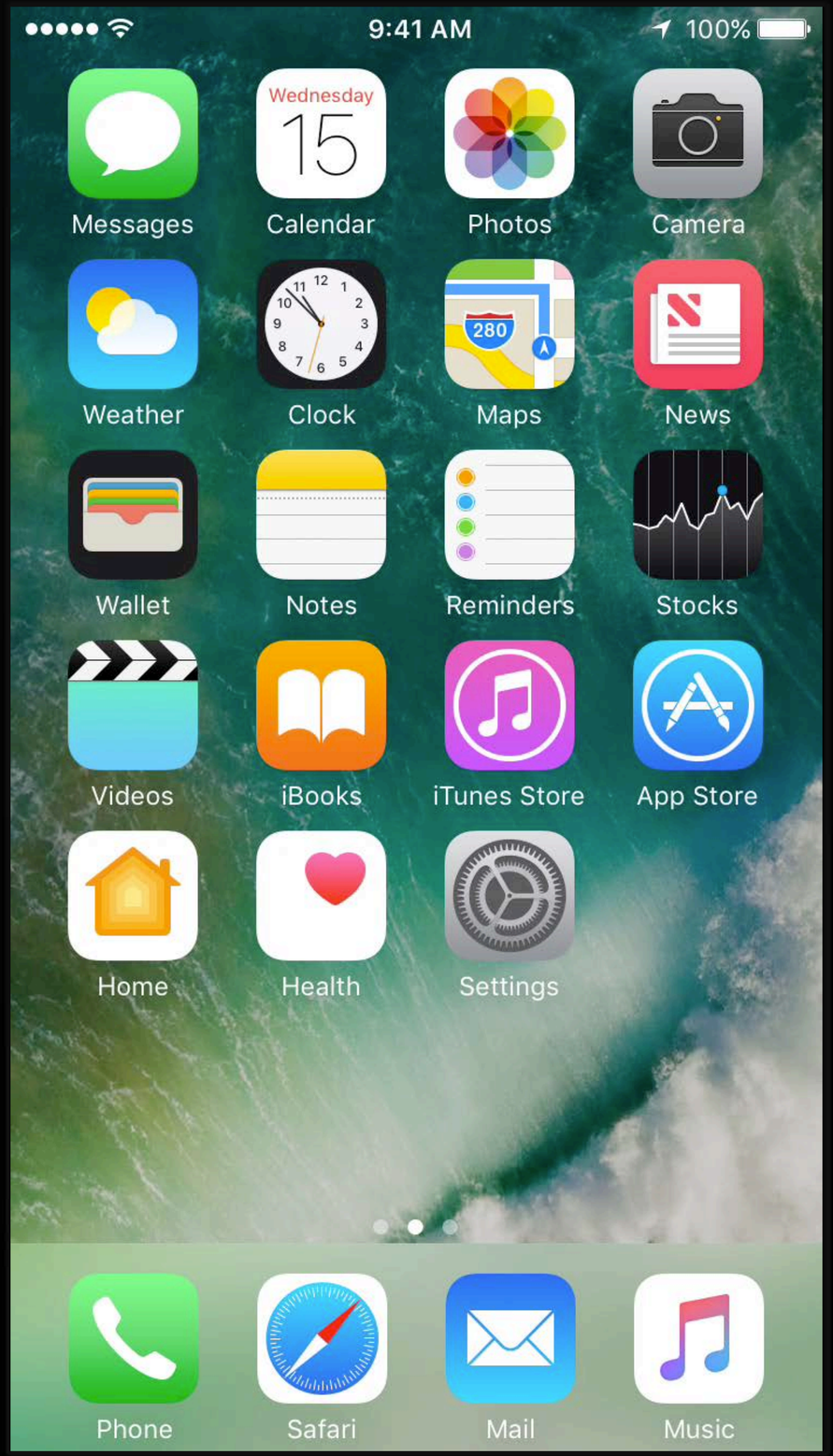
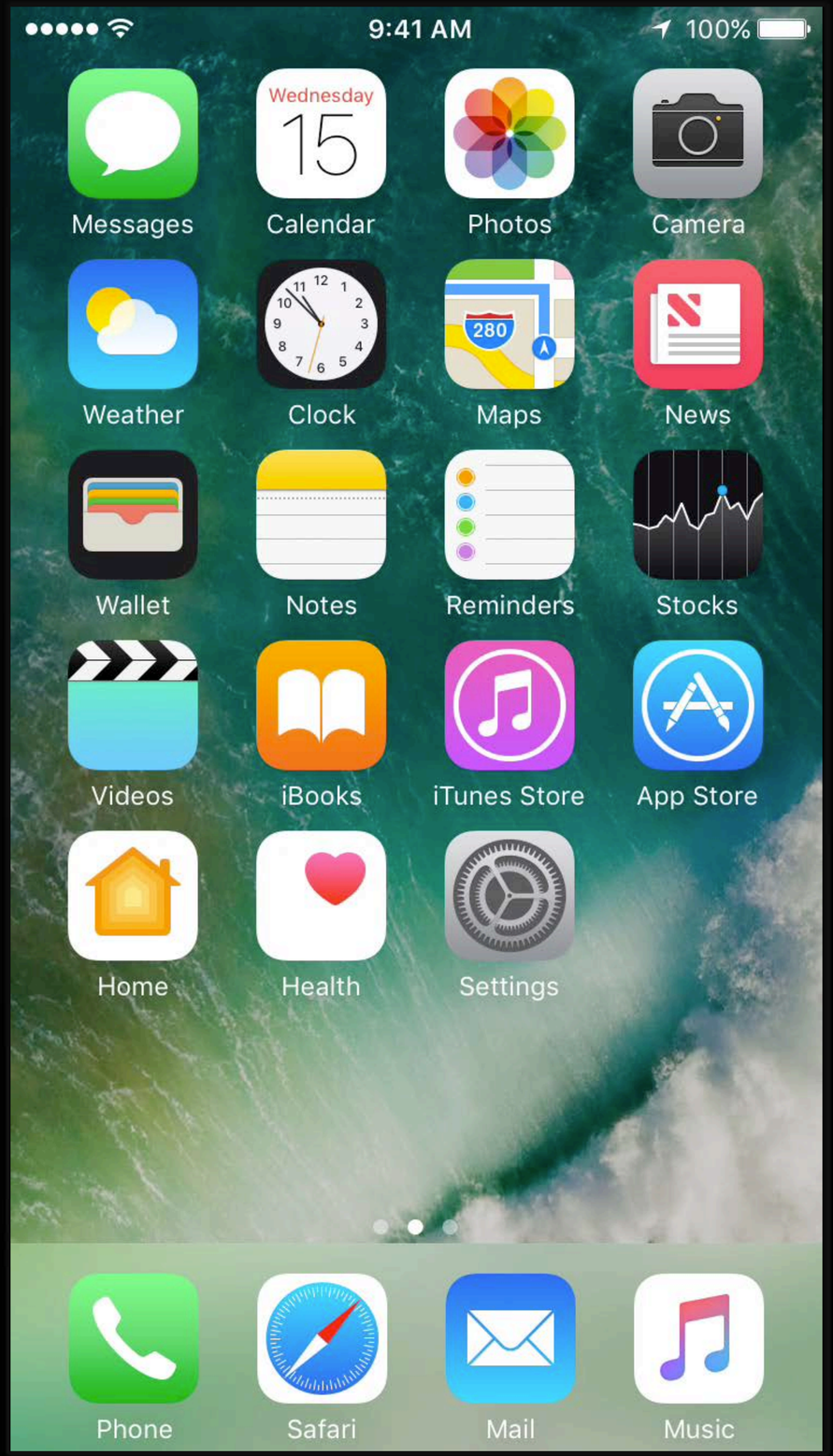

9:41 AM
100%
Messages
Wednesday
15
Calendar
Photos
Camera
Weather
Clock
280
Maps
News
Wallet
Notes
Reminders
Stocks
Videos
iBooks
iTunes Store
App Store
Home
Health
Settings
Phone
Safari
Mail
Music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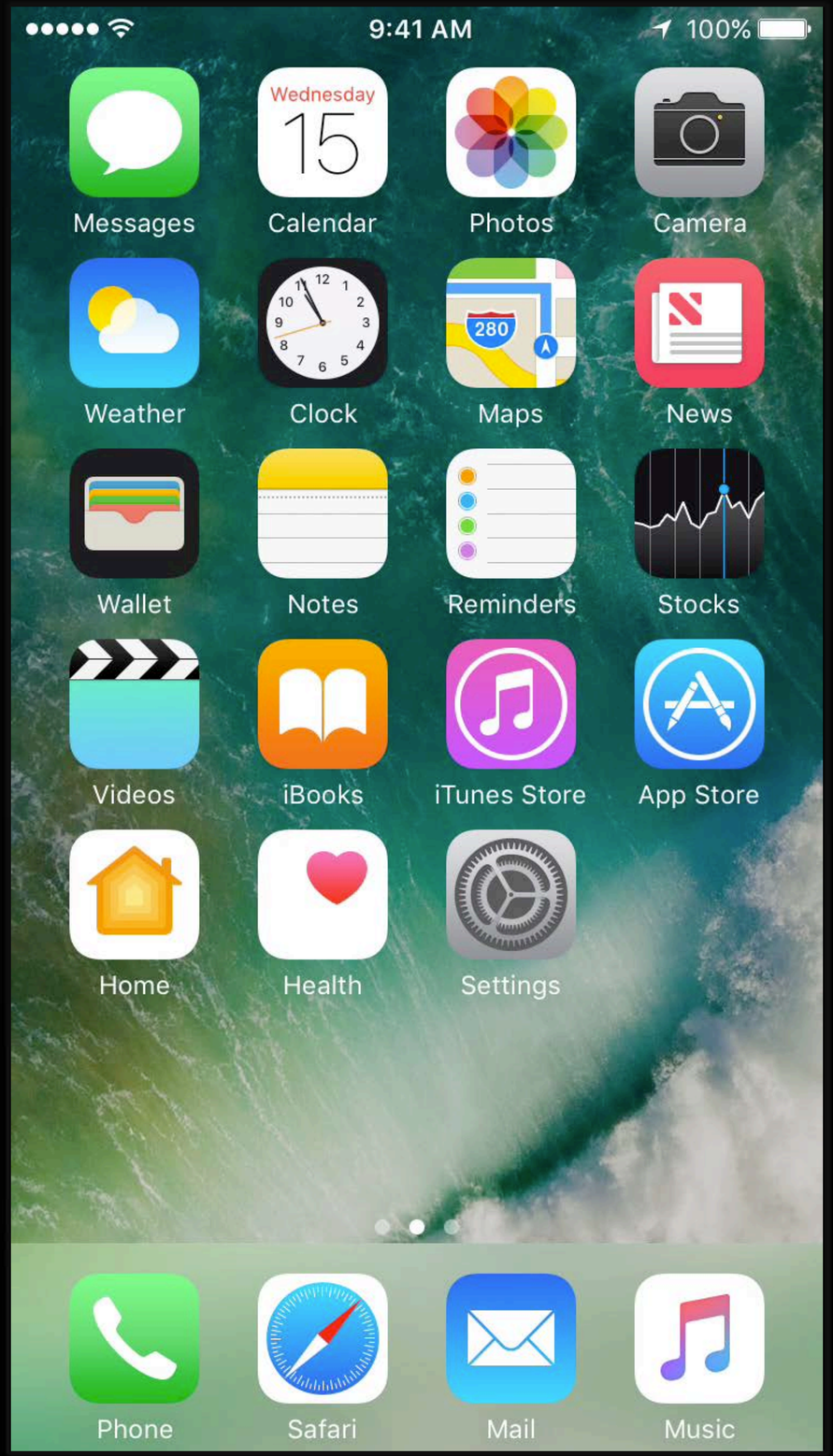
Videos
iBooks
iTunes Store
App Store
Home
Health
Settings
Phone
Safari
Mail
Music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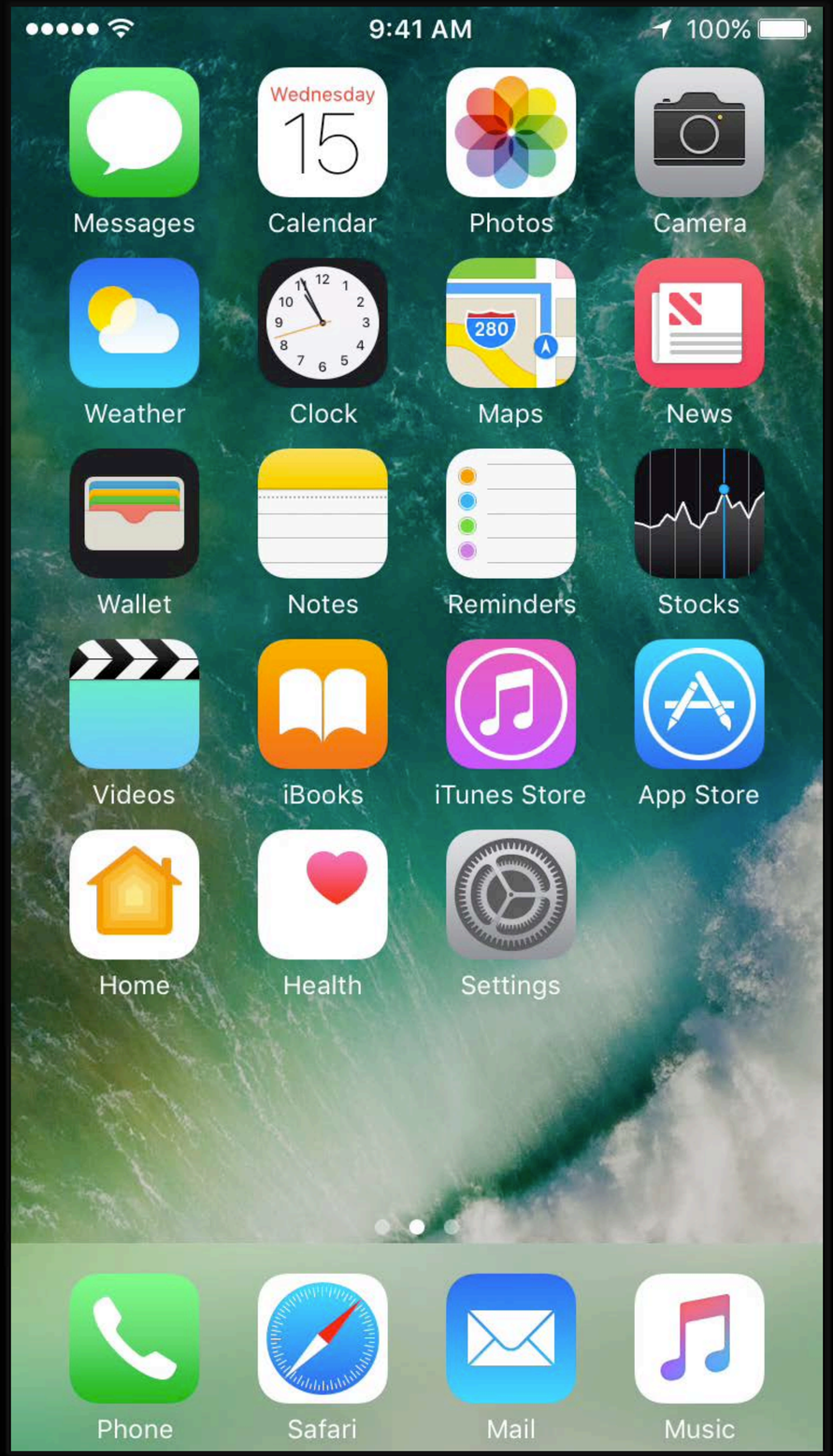
Safari
Mail
Music


9:41 AM
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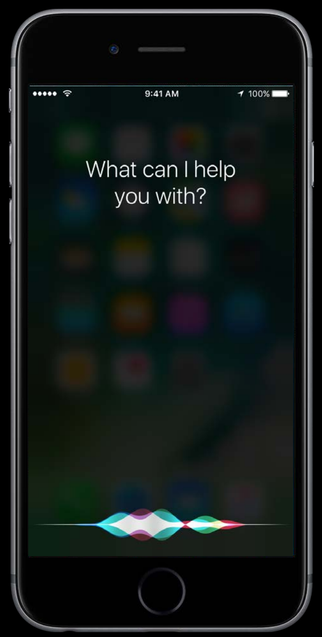
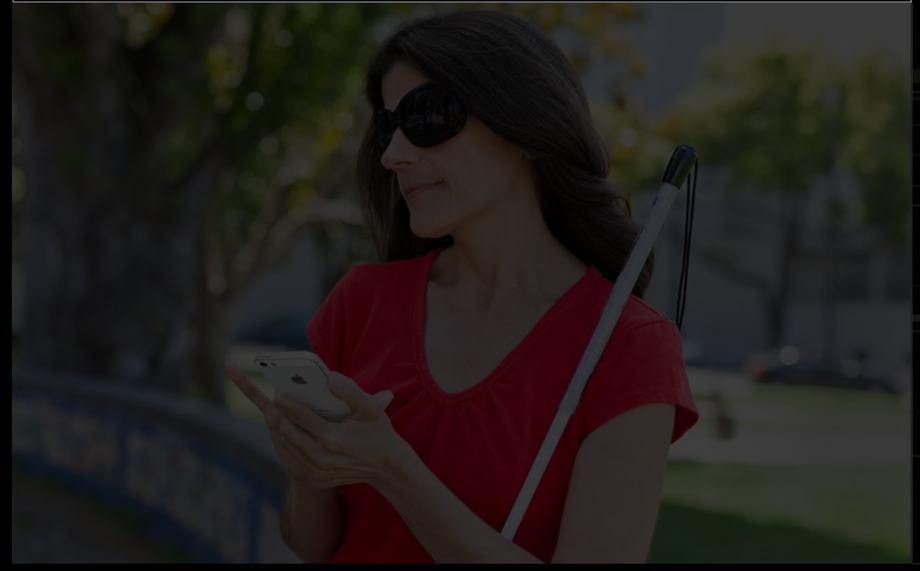
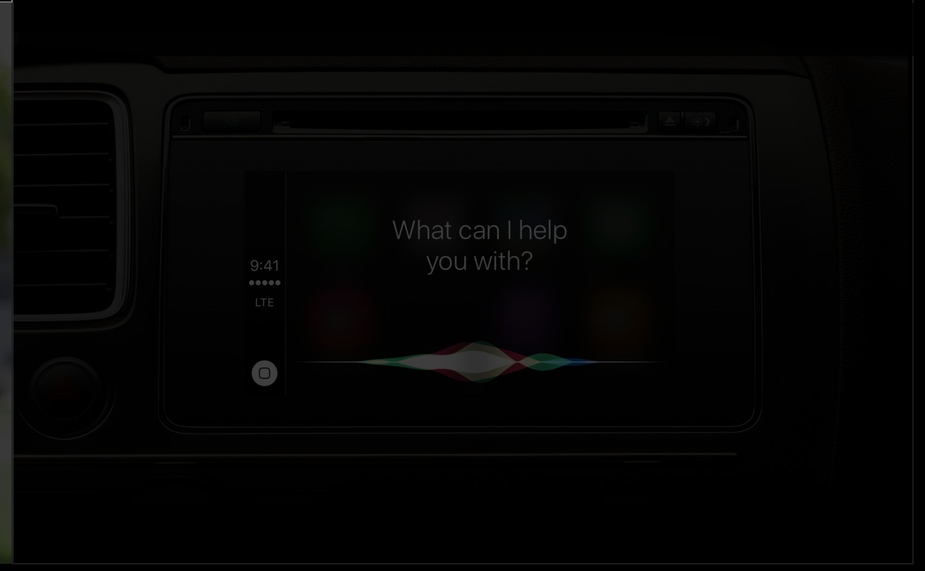
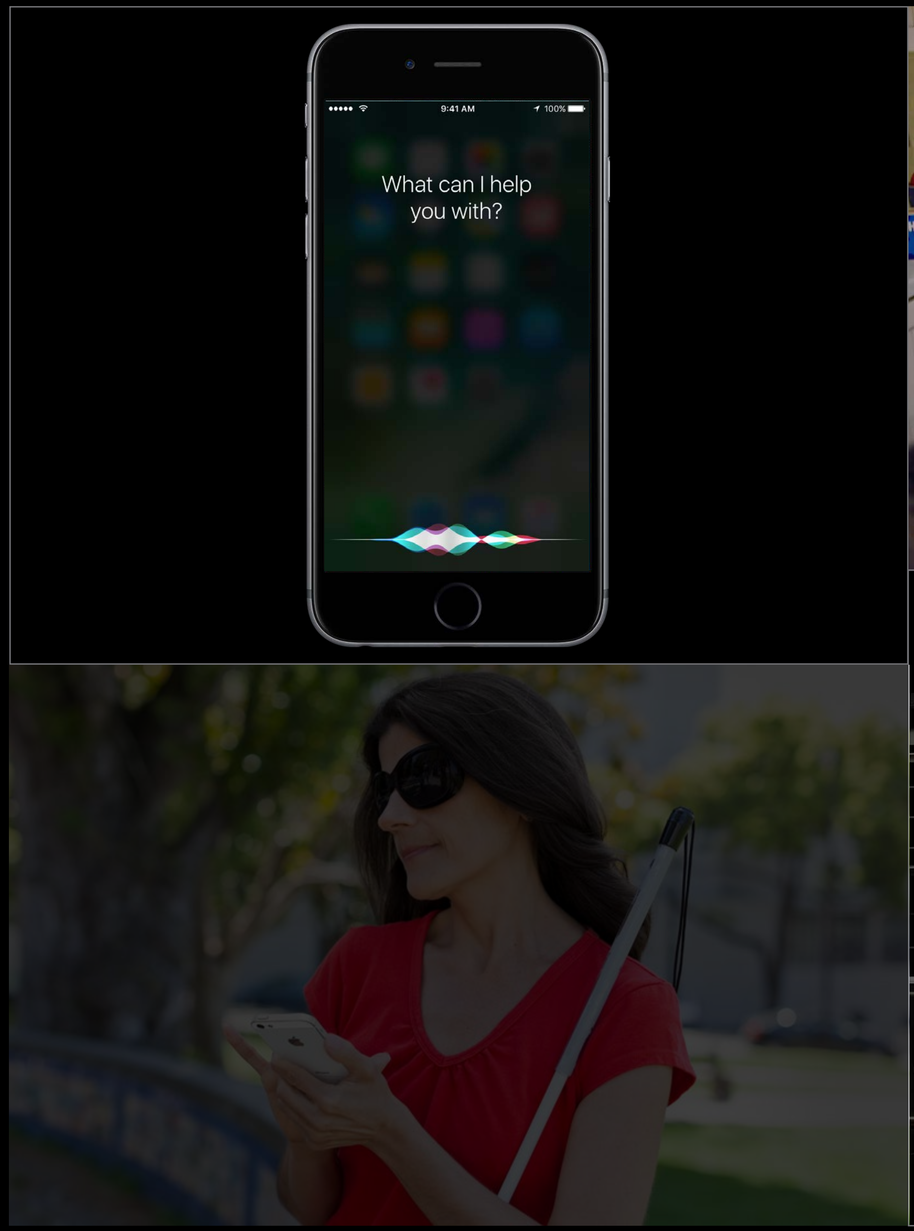
Camera
Weather
Clock
280
Maps
News
Wallet
Notes
Reminders
Stocks
Videos
iBooks
iTunes Store
App Store
Home
Health
Settings
Phone
Safari
Mail
Music


9:41 AM
100%
What can I help
you with?

HOCOLATE
CHIP
COOKIES




9:41
LTE
What can I help
you with?

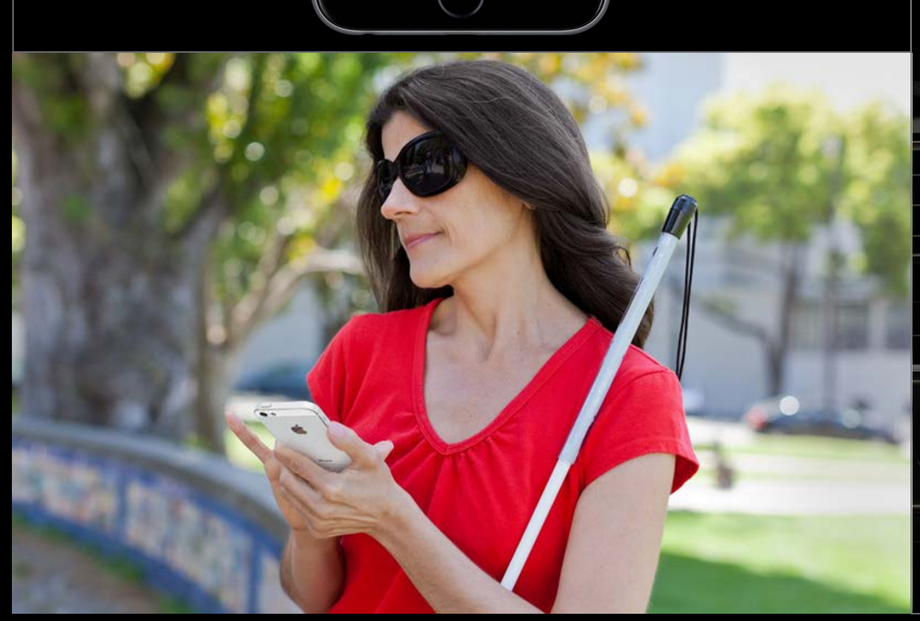

9:41 AM
100%
What can I help you with?

HOCOLATE CHIP COOKIES

9:41
LTE
What can I help you with?

9:41 AM
100%
What can I help you with?

HOCOLATE CHIP COOKIES



9:41
LTE
What can I help you with?

How Siri Helps You

And how you can help, too

How Siri Helps You

And how you can help, too

Test with many different requests

How Siri Helps You

And how you can help, too

Test with many different requests

Test in different situations

How Siri Helps You

And how you can help, too

Test with many different requests

Test in different situations

Provide info to Siri

Design Guidelines

Design Guidelines

A conversation with your users

Design Guidelines

A conversation with your users

Prepare

Design Guidelines

A conversation with your users

Prepare

Be a good listener

Design Guidelines

A conversation with your users

Prepare

Be a good listener

Ask questions

Design Guidelines

A conversation with your users

Prepare

Be a good listener

Ask questions

Respond to the request

Design Guidelines

Prepare

Design Guidelines

Prepare

Users aren’t exactly like you

Design Guidelines

Prepare

Users aren’t exactly like you

Ask real people—“What would you say to Siri?”

"Get a ride"

"Get a ride"

"Get me to SFO with UnicornRides"

"Get a ride"

"Get me to SFO with UnicornRides"

"Ask UnicornRides to get me a Pegasus for 6 people from 300 Post Street to Bill Graham Auditorium"

Design Guidelines

Be a good listener

Design Guidelines

Be a good listener

Use the original request

Design Guidelines

Be a good listener

Use the original request

Pick good defaults

Design Guidelines

Be a good listener

Use the original request

Pick good defaults

Make educated guesses

Design Guidelines

Be a good listener

Use the original request

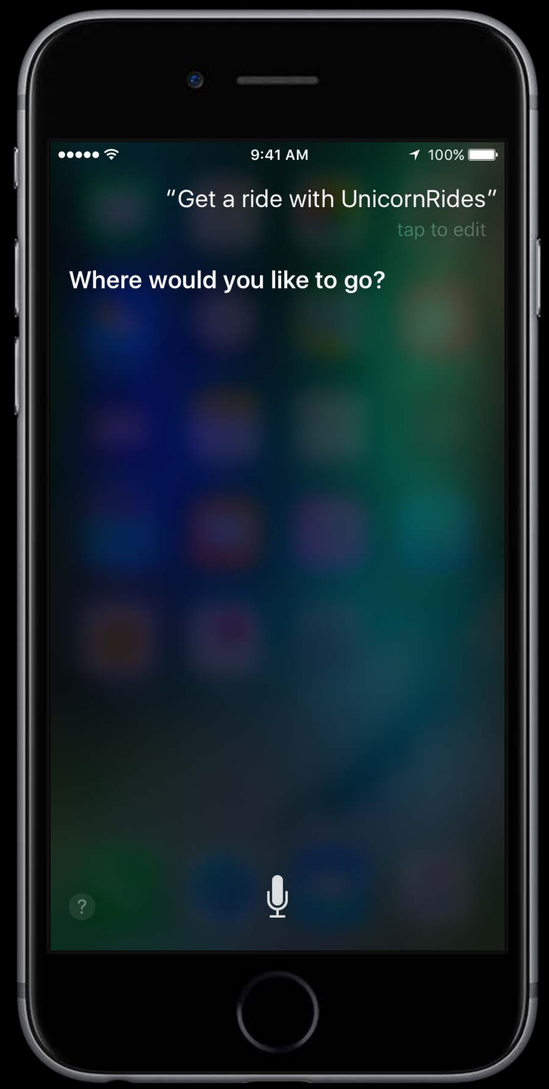
Pick good defaults

Make educated guesses

Avoid bad surprises

Design Guidelines

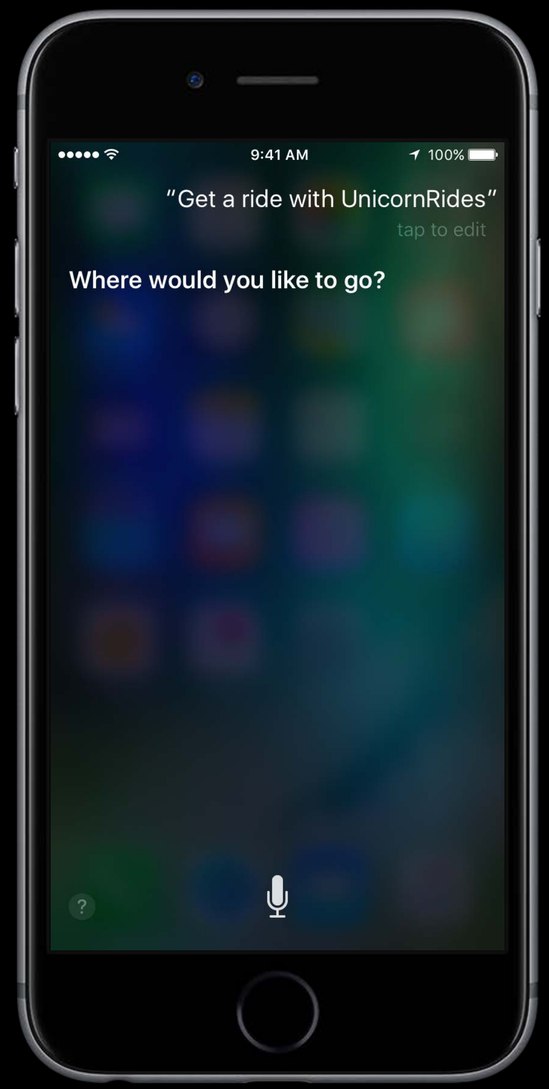
Ask questions



Design Guidelines

Ask questions

Keep it simple!

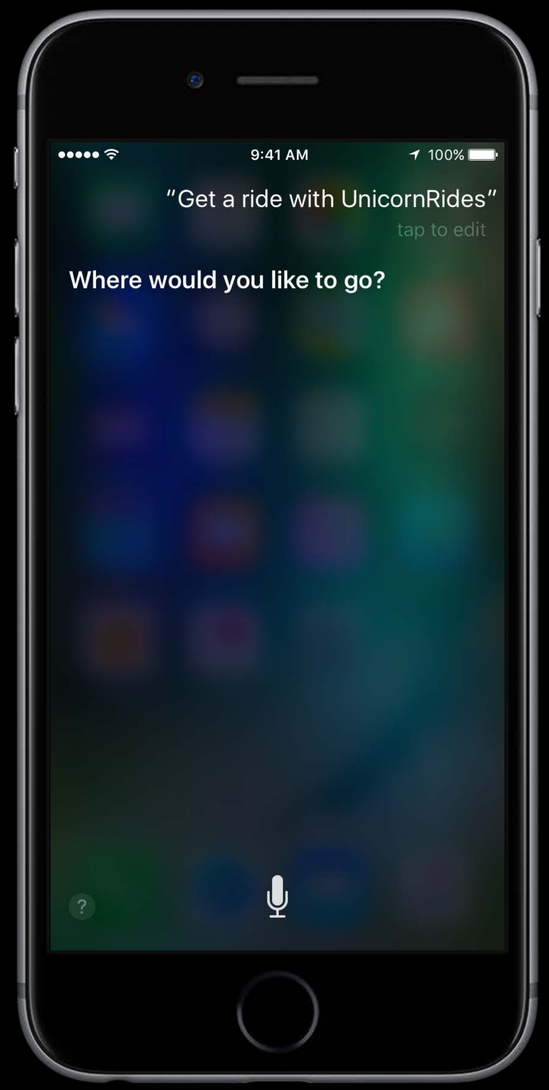


Design Guidelines

Ask questions

Keep it simple!

Only ask for things that are necessary



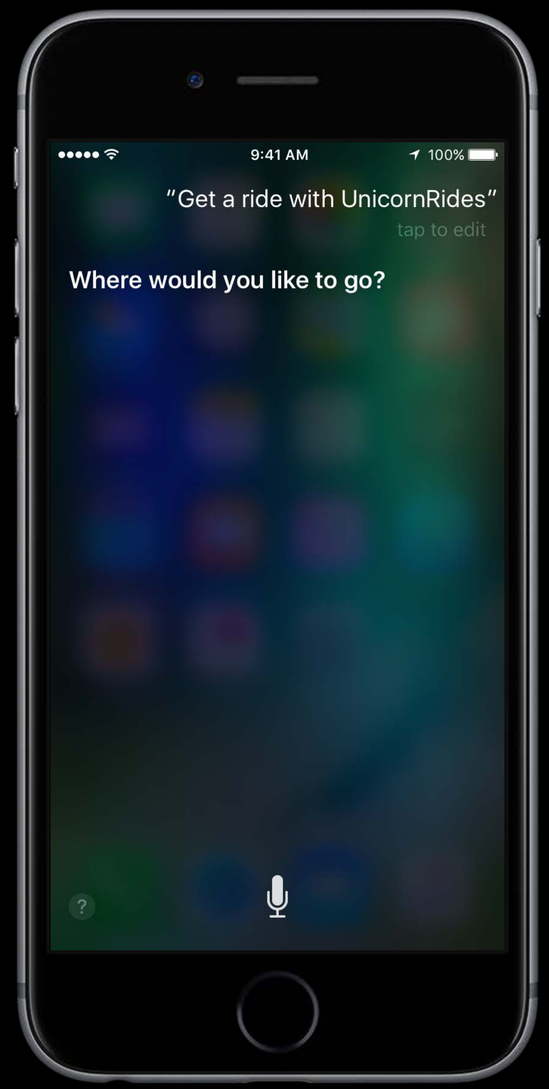
Design Guidelines

Ask questions

Keep it simple!

Only ask for things that are necessary

Handle errors



Design Guidelines

Confirmation

Design Guidelines

Confirmation

Presenting a single option

Design Guidelines

Confirmation

Presenting a single option

Check with the user:

Design Guidelines

Confirmation

Presenting a single option

Check with the user:

- If you made an educated guess

Design Guidelines

Confirmation

Presenting a single option

Check with the user:

- If you made an educated guess
- If there is a big impact

Design Guidelines

Disambiguation

Design Guidelines

Disambiguation

Presenting multiple options

Design Guidelines

Disambiguation

Presenting multiple options

- Small number of possibilities

Design Guidelines

Disambiguation

Presenting multiple options

- Small number of possibilities
- Filtered list from the user's request

Design Guidelines

Disambiguation

Presenting multiple options

- Small number of possibilities
- Filtered list from the user's request

Siri can read the list

Design Guidelines

Final confirmation

Design Guidelines

Final confirmation

Siri checks with your extension

Design Guidelines

Final confirmation

Siri checks with your extension

- Send info to Siri to present

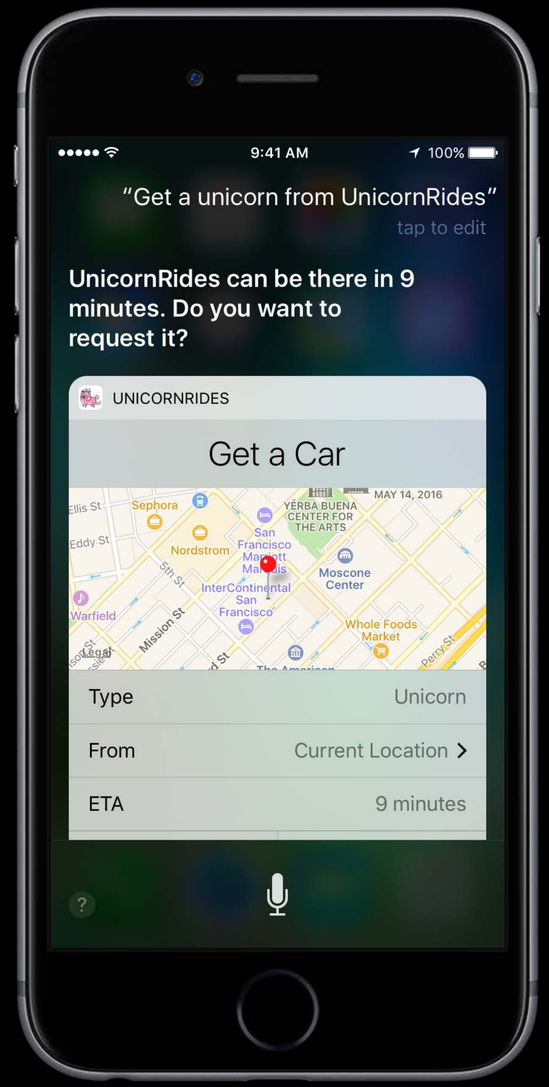
Design Guidelines

Final confirmation

Siri checks with your extension

- Send info to Siri to present

Siri checks with the user



Respond to the Request

Siri gives the results

Respond to the Request

Siri gives the results

Matches the request

Respond to the Request

Siri gives the results

Matches the request

Works everywhere (CarPlay, “Hey Siri”)

Respond to the Request

Siri gives the results

Matches the request

Works everywhere (CarPlay, “Hey Siri”)

Siri provides visual UI

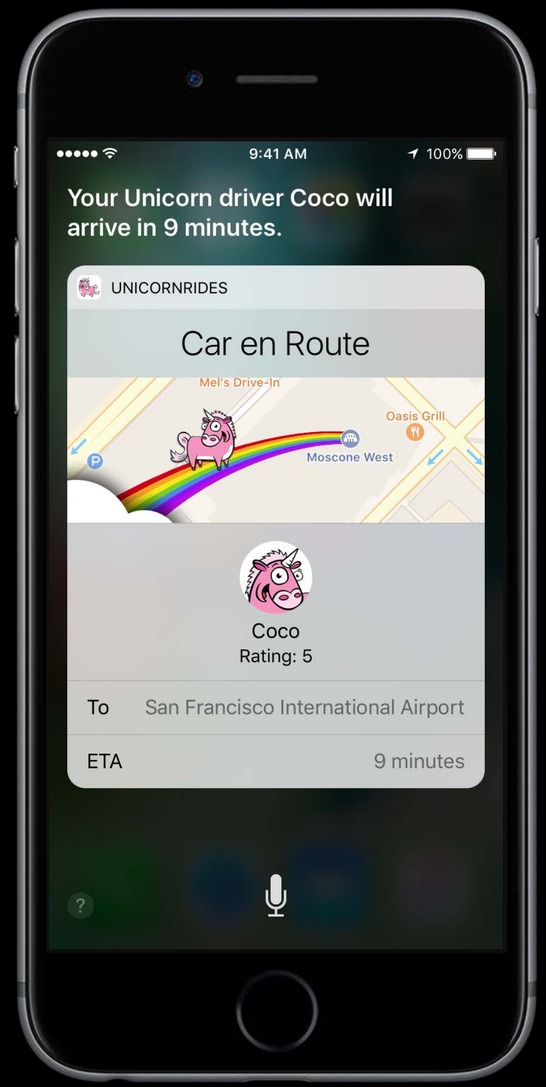
Respond to the Request

Custom UI (optional)

Respond to the Request

Custom UI (optional)

Bring the feel of your app into Siri

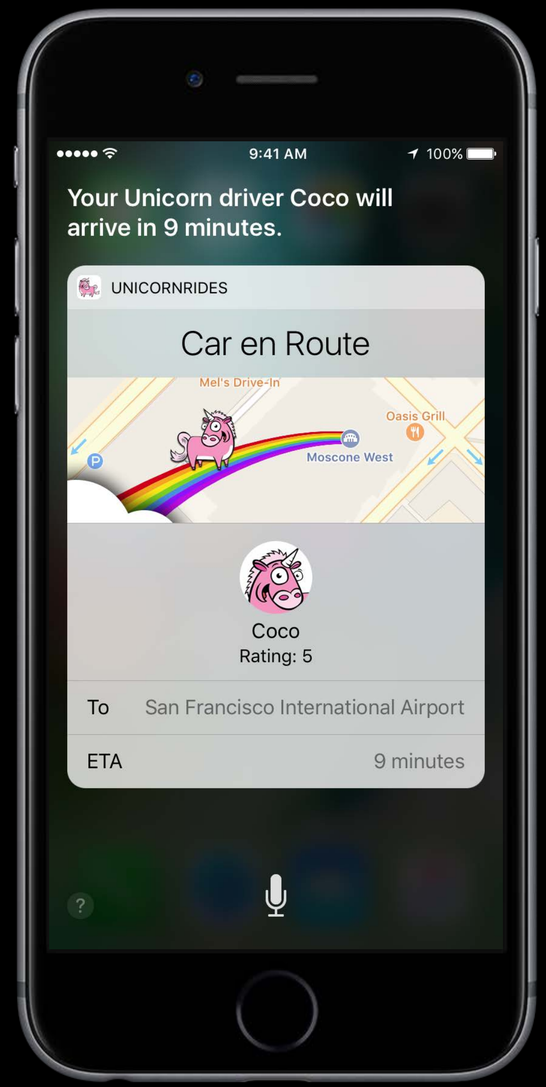


Respond to the Request

Custom UI (optional)

Bring the feel of your app into Siri

Limit what you show



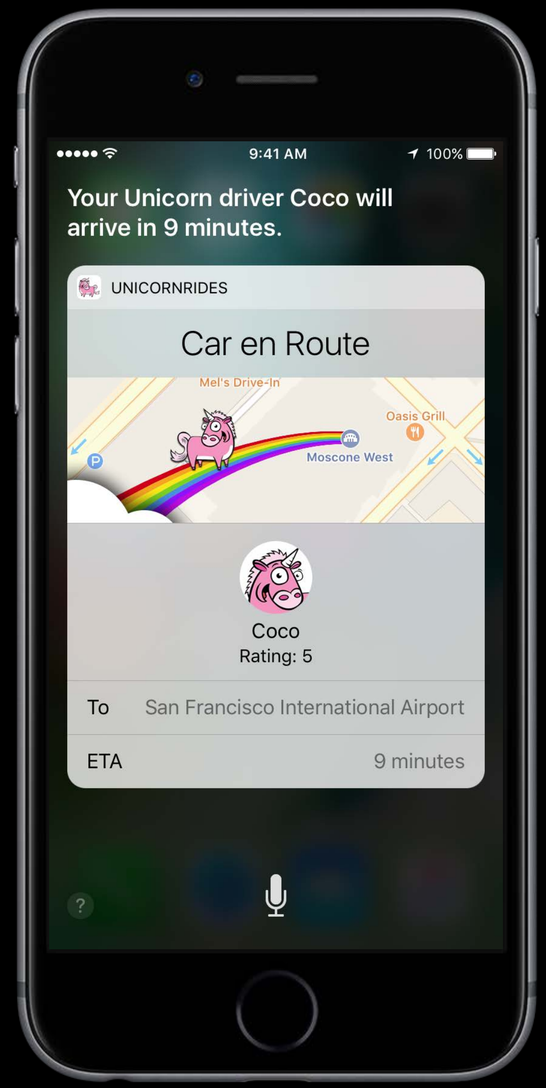
Respond to the Request

Custom UI (optional)

Bring the feel of your app into Siri

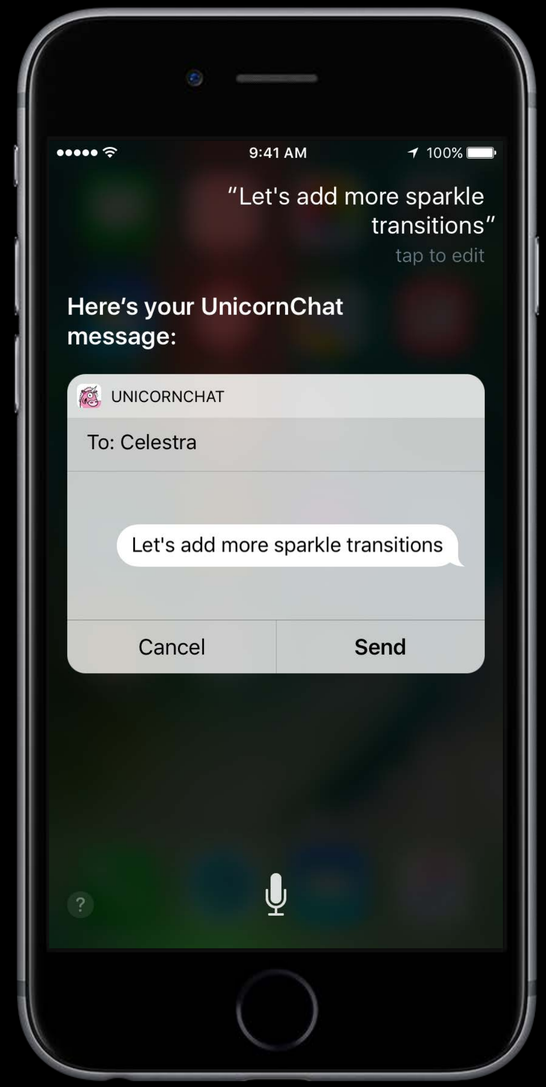
Limit what you show

Design for multiple device sizes



Respond to the Request

Custom UI (optional)



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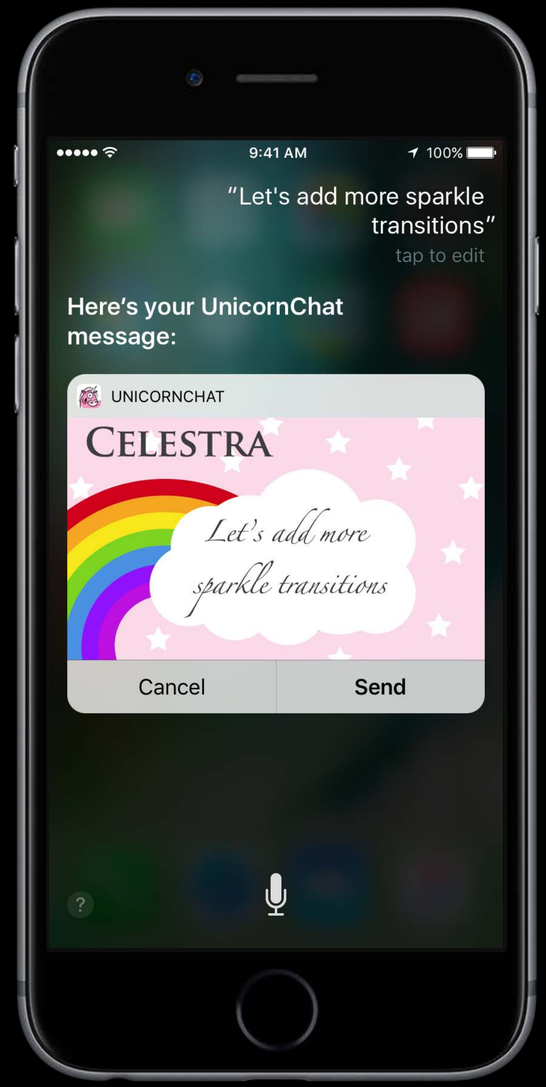
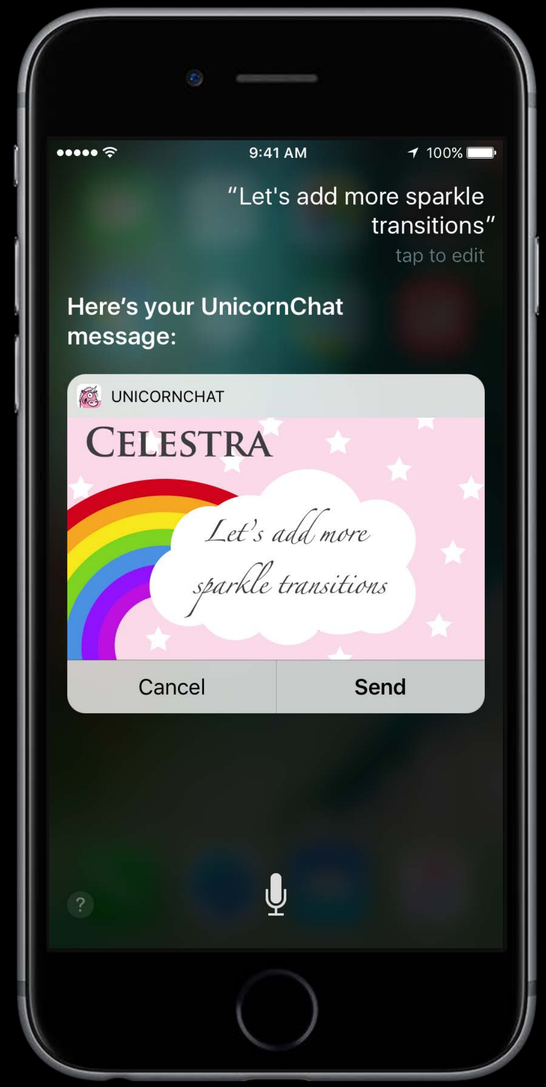


Respond to the Request

Custom UI (optional)

Use API to hide redundant info

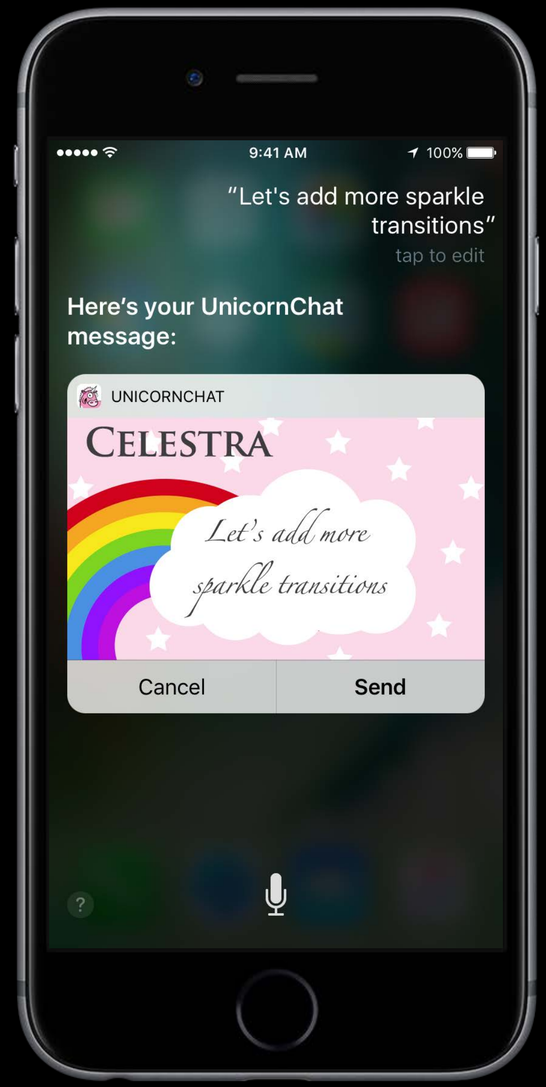


Respond to the Request

Custom UI (optional)

Use API to hide redundant info

Represent everything visually



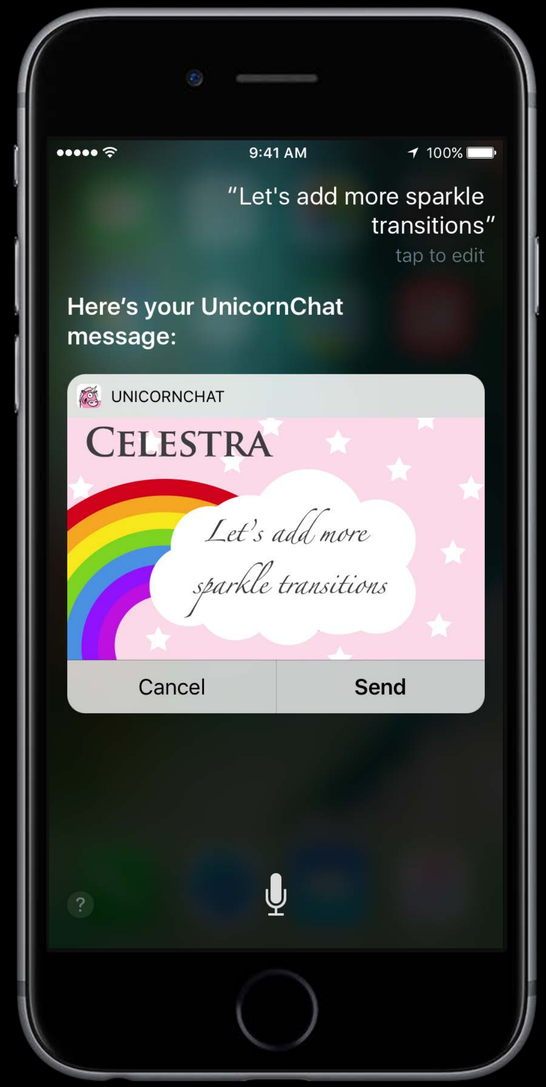
Respond to the Request

Custom UI (optional)

Use API to hide redundant info

Represent everything visually

Still send all info to Siri



Respond to the Request

In your app

Respond to the Request

In your app

App provides follow up actions

Respond to the Request

In your app

App provides follow up actions

Don’t surprise the user

Polish the Design

9:41 AM
100%
Messages
Wednesday
15
Calendar
Photos
Camera
Weather
Clock
280
Maps
News
Wallet
Notes
Reminders
Stocks
Videos
iBooks
iTunes Store
App Store
Home
Health
Settings
Phone
Safari
Mail
Music

9:41 AM
100%
Messages
Wednesday
15
Calendar
Photos
Camera
Weather
Clock
280
Maps
News
Wallet
Notes
Reminders
Stocks
Videos
iBooks
iTunes Store
App Store
Home
Health
Settings
Phone
Safari
Mail
Music

Guide Examples

Guidelines

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Include your app name

Guide Examples

Guidelines

Include your app name

Keep your examples short

Guide Examples

Guidelines

Include your app name

Keep your examples short

Provide multiple examples for each intent

Guide Examples

Guidelines

- Include your app name
- Keep your examples short
- Provide multiple examples for each intent
- Prioritize intents and examples

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- Localized examples

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Keep your examples short

Provide multiple examples for each intent

- Prioritize intents and examples
- Localized examples

Make sure they work

Guide Examples

Avoid

“Hey Siri, get a ride with UnicornRides”

“Would you please tell me where is my UnicornRide?”

Guide Examples

Good

“Get a ride with UnicornRides”

“Where is my UnicornRide?”

Iterate on the Experience

Iterate on the Experience

Experiment

Iterate on the Experience

Experiment

Try it with real people

Iterate on the Experience

Experiment

Try it with real people

Try it in different situations

Iterate on the Experience

Experiment

Try it with real people

Try it in different situations

Does it feel right?

Summary

Summary

SiriKit

Summary

SiriKit

Extensions, Intents, Vocabulary

Summary

SiriKit

Extensions, Intents, Vocabulary

Design the conversation

More Information

https://developer.apple.com/wwdc16/217

Related Sessions

What's New with Wallet and Apple Pay	Mission	Tuesday 3:00PM
Engineering Privacy for Your Users	Pacific Heights	Wednesday 4:00PM
Enhancing VoIP Apps with CallKit	Mission	Thursday 5:00PM

Related Sessions

Extending Your Apps with SiriKit	Nob Hill	Thursday 1:40PM

Labs

SiriKit Lab	Frameworks Lab C	Thursday 3:00PM
SiriKit Lab	Frameworks Lab B	Friday 9:00AM

WWDC16