

Making Great SiriKit Experiences

Session 228

José Angel Castillo Sanchez, SiriKit Engineering
Rohit Dasari, SiriKit Engineering



Contact resolution

Security

Custom vocabulary

UI testing

Contact resolution

Security

Custom vocabulary

UI testing

Contact resolution

Security

Custom vocabulary

UI testing

Contact resolution

Security

Custom vocabulary

UI testing

Contact Resolution



UnicornChat



9:41 AM



Text John hello on UnicornChat

Tap to Edit >





9:41 AM

100%

🔍 John



Cancel

TOP NAME MATCHES

John Appleseed

John Baily

Contact Resolution

INPerson.siriMatches

```
extension INPerson : INSpeakable {  
    open var siriMatches: [INPerson]? { get }  
}
```

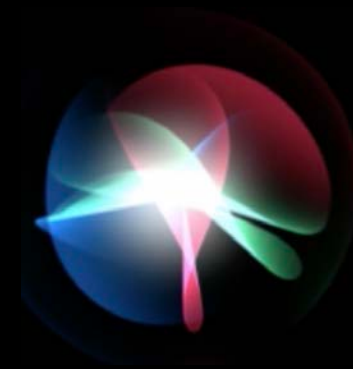
Contact Resolution

INPerson.siriMatches

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    open var siriMatches: [INPerson]? { get }  
}
```

Contact Resolution

INPerson.siriMatches



“Text John hello on UnicornChat”

Contact Resolution

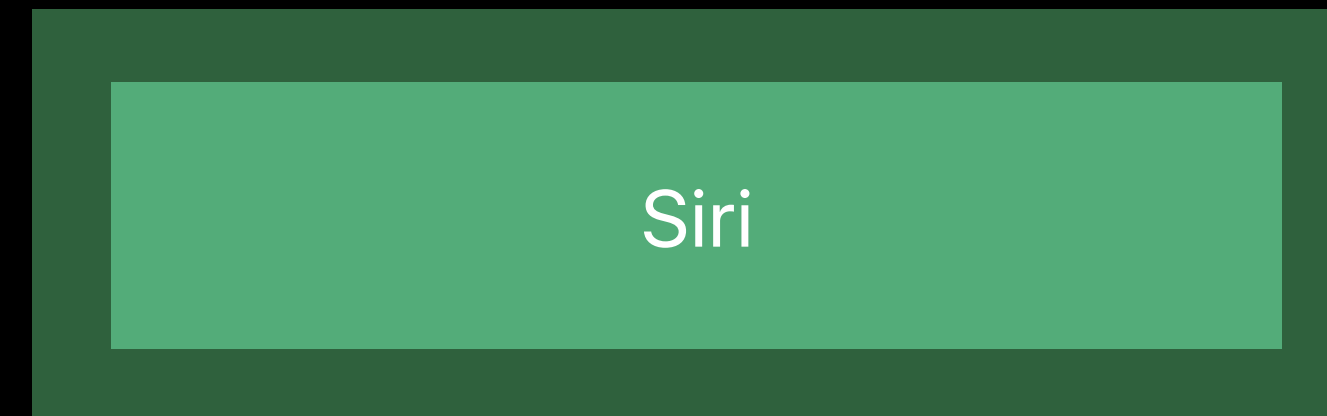
INPerson.siriMatches

"Text John hello on UnicornChat"

Contact Resolution

INPerson.siriMatches

"Text John hello on UnicornChat"



Contact Resolution

INPerson.siriMatches

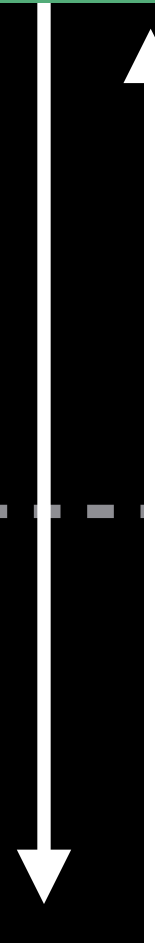
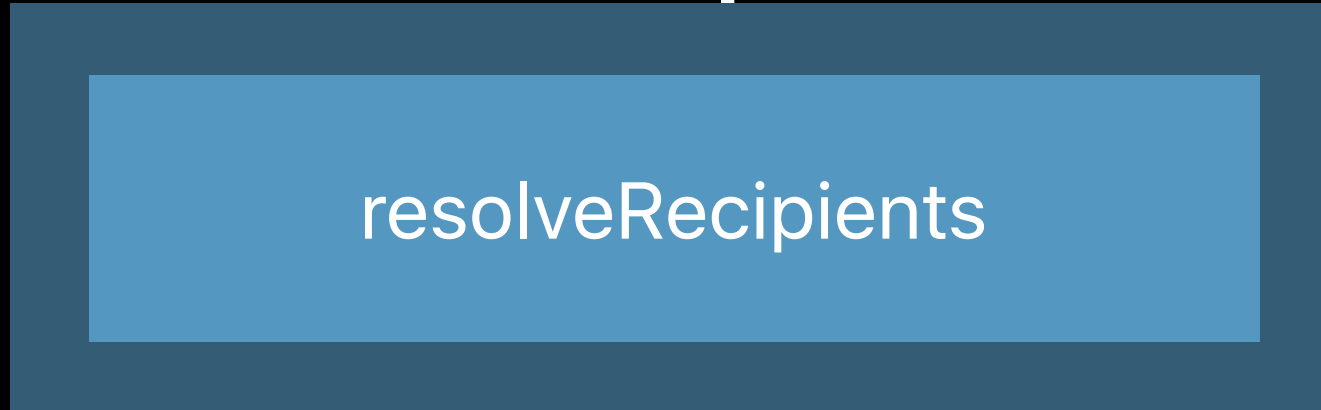
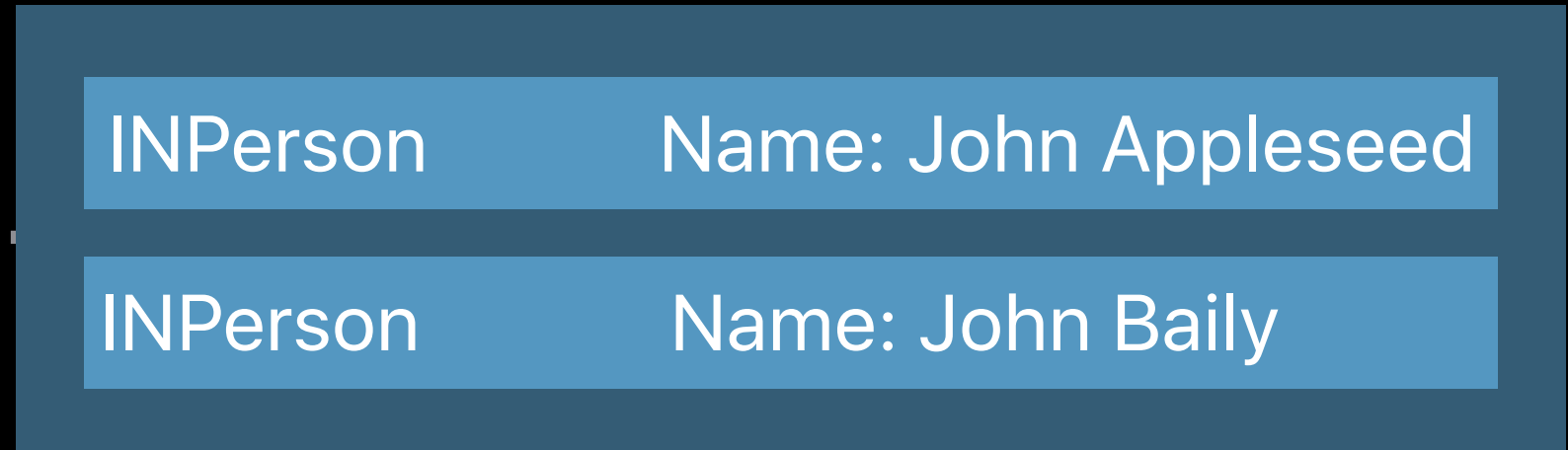
"Text John hello on UnicornChat"

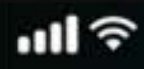


Contact Resolution

INPerson.siriMatches

"Text John hello on UnicornChat"





9:41 AM



Text John hello on UnicornChat

Tap to Edit >

Which one?

John Baily

John Appleseed



Contact Resolution

INPerson.siriMatches

"John Baily"

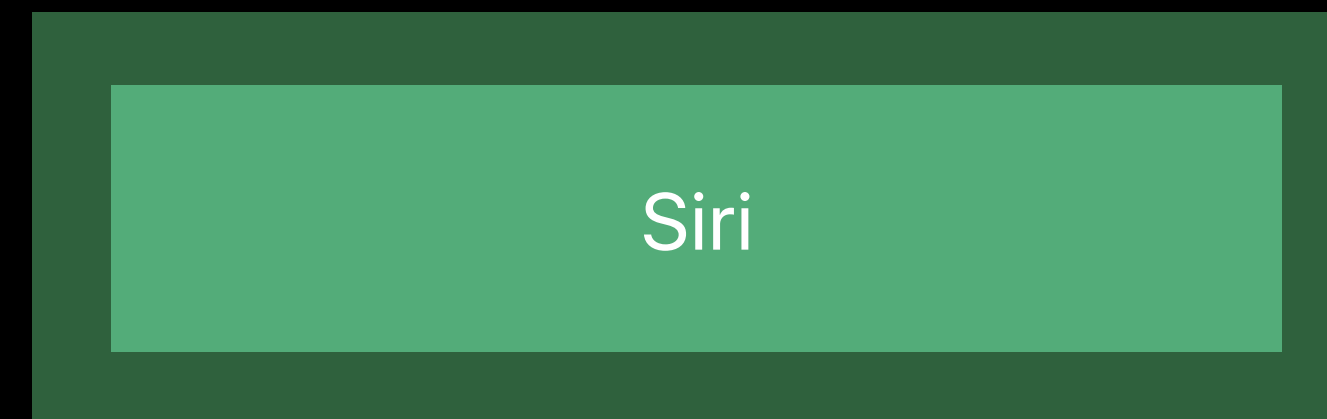
Application Extension

resolveRecipients

Contact Resolution

INPerson.siriMatches

"John Baily"



Siri

Application Extension



resolveRecipients

Contact Resolution

INPerson.siriMatches

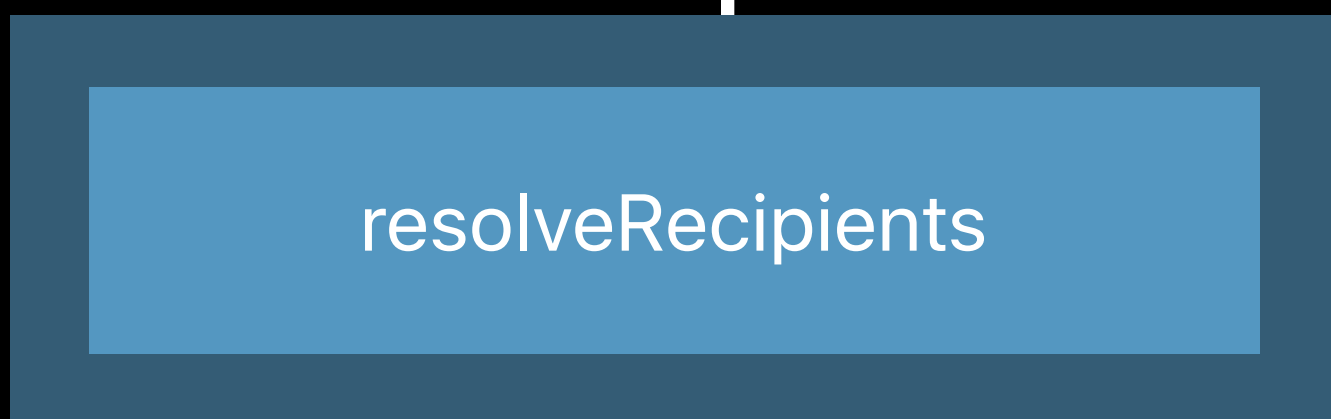
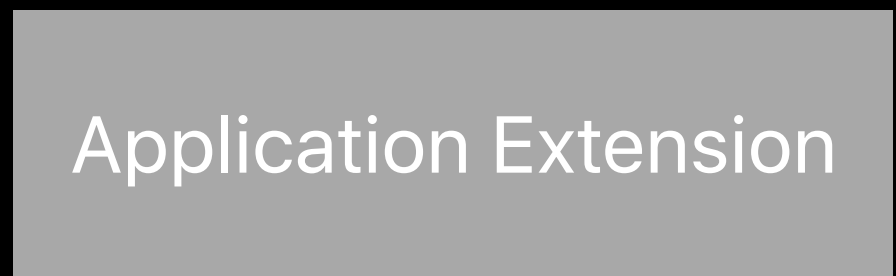
"John Baily"



Contact Resolution

INPerson.siriMatches

"John Baily"





9:41 AM

100%

🔍 John



Cancel

TOP NAME MATCHES

John Appleseed

John Baily

But what if...



9:41 AM

100%

[← Back](#)

[Edit](#)



John Baily



message



call



video



home



pay

home

[\(530\) 555-5980](tel:(530)555-5980)

work

[\(530\) 555-4909](tel:(530)555-4909)

mobile

[\(530\) 555-8862](tel:(530)555-8862)

home

johnbaily@icloud.com

Notes

[Send Message](#)

[Share Contact](#)

[Share My Location](#)

Contact Resolution

INPerson.siriMatches



"John Baily"

Contact Resolution

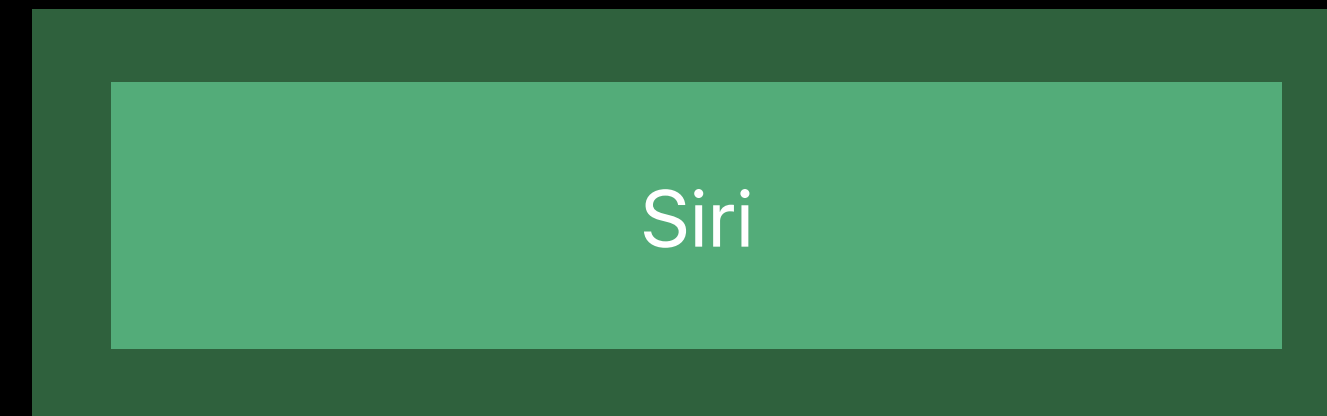
INPerson.siriMatches

"John Baily"

Contact Resolution

INPerson.siriMatches

"John Baily"



Contact Resolution

INPerson.siriMatches

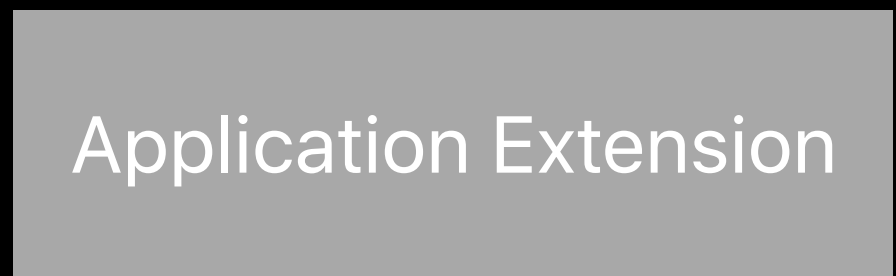
"John Baily"



Contact Resolution

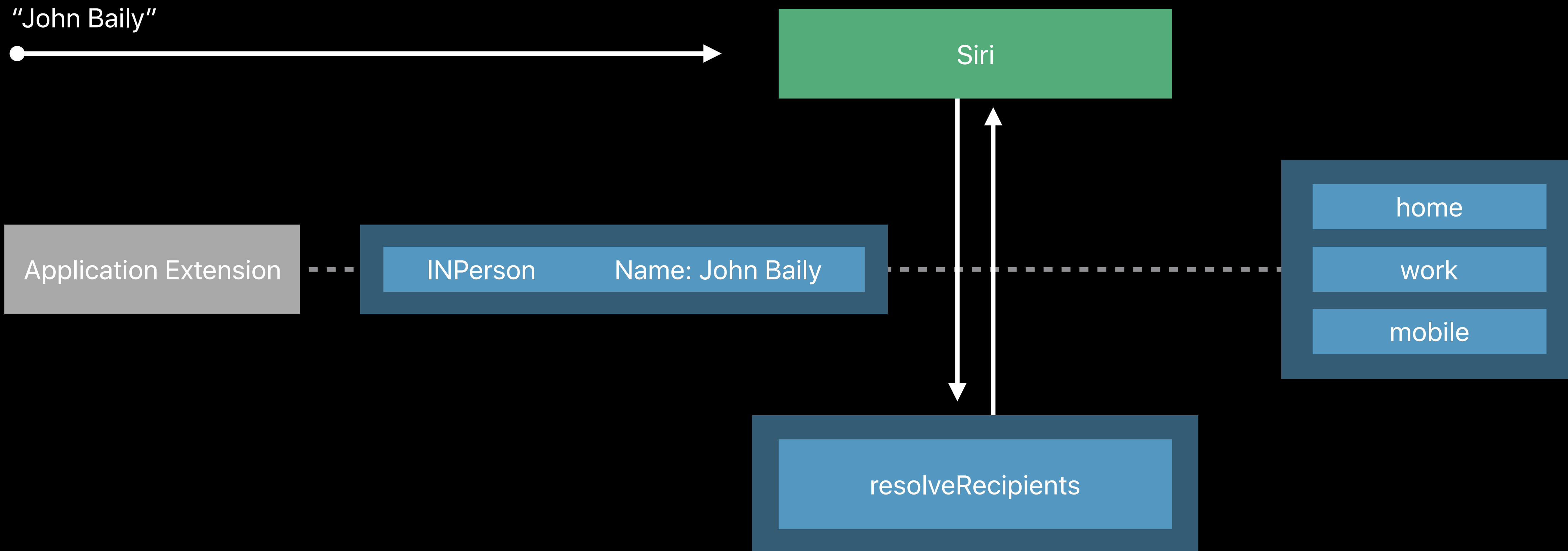
INPerson.siriMatches

"John Baily"



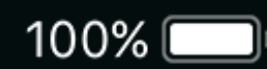
Contact Resolution

INPerson.siriMatches





9:41 AM



John Baily — John Baily

Which one?

John Baily — home

John Baily — work

John Baily — mobile



Contact Resolution

INPerson.siriMatches



“mobile”

Contact Resolution

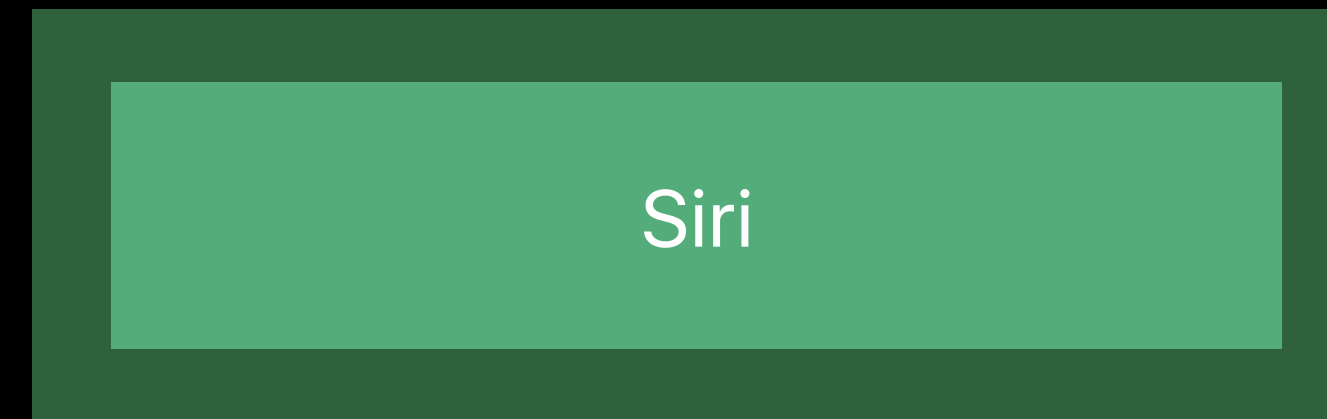
INPerson.siriMatches

"mobile"

Contact Resolution

INPerson.siriMatches

"mobile"



Contact Resolution

INPerson.siriMatches

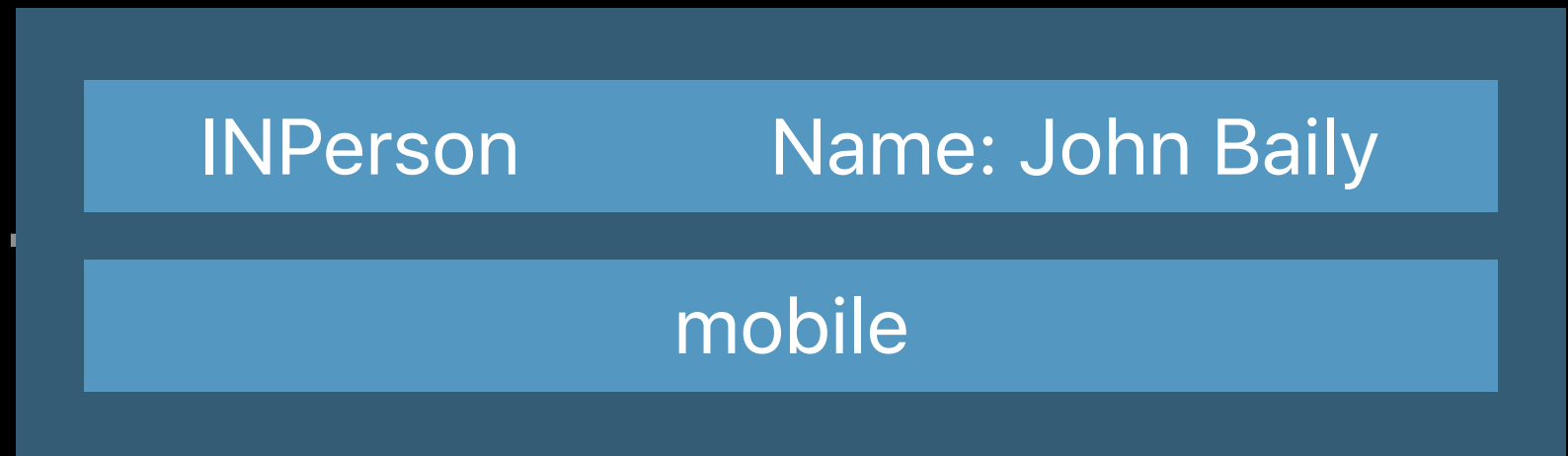
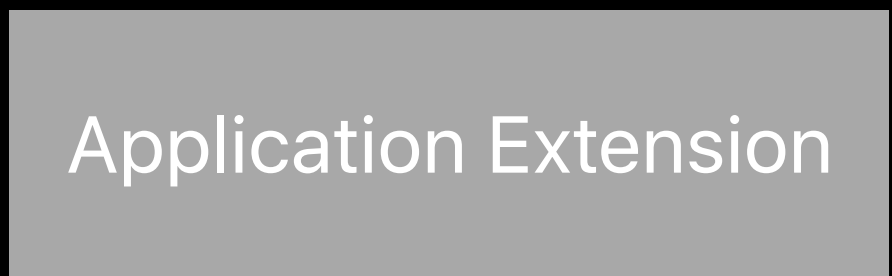
"mobile"



Contact Resolution

INPerson.siriMatches

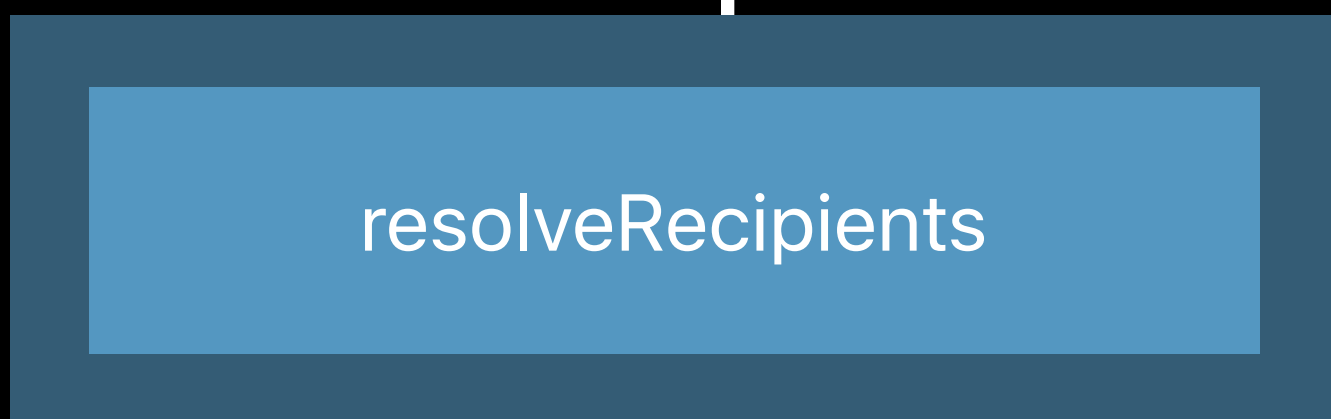
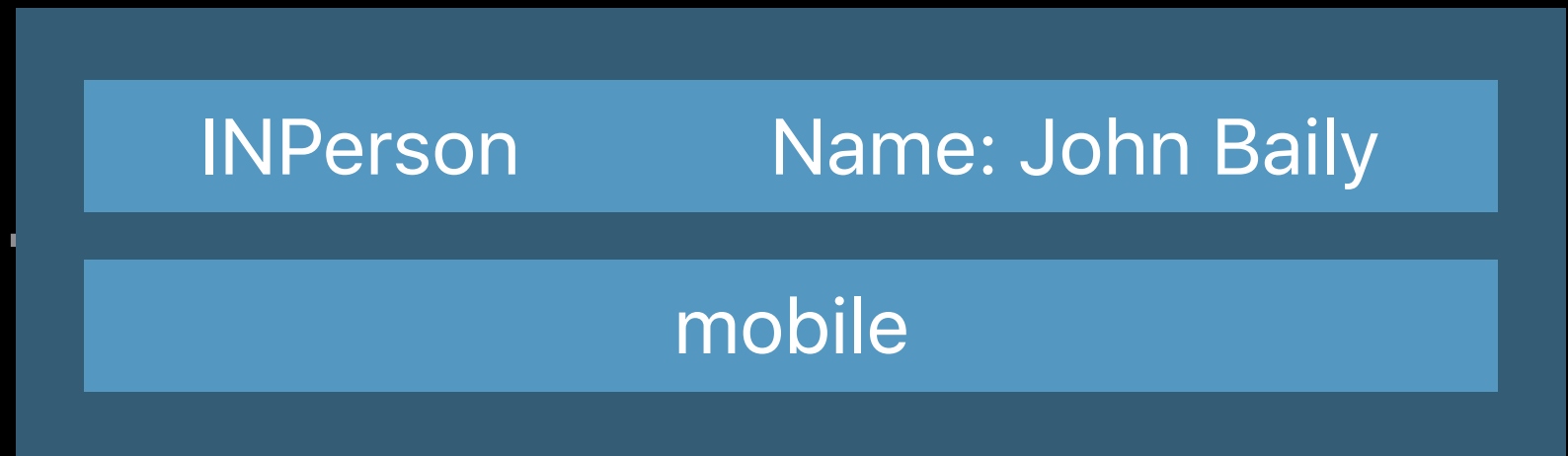
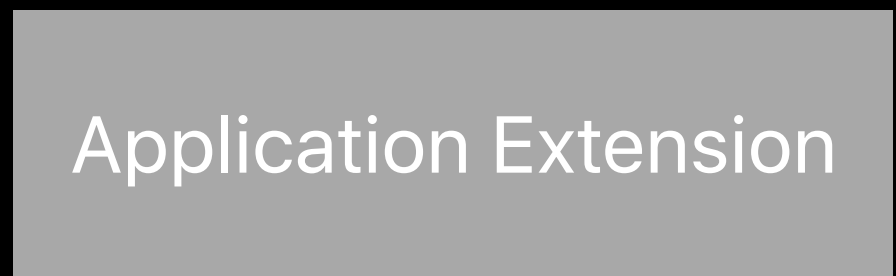
"mobile"



Contact Resolution

INPerson.siriMatches

"mobile"



```
func resolveRecipients(forSendMessage intent: INSendMessageIntent, with completion: @escaping
([INPersonResolutionResult]) -> Void) {
    guard let recipients = intent.recipients, !recipients.isEmpty else {
        completion([.needsValue()])
        return
    }

    let results = recipients.map { recipient in
        database.resolvePerson(for: recipient.user)
    }

    completion(results)
}
```

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func resolveRecipients(forSendMessage intent: INSendMessageIntent, with completion: @escaping
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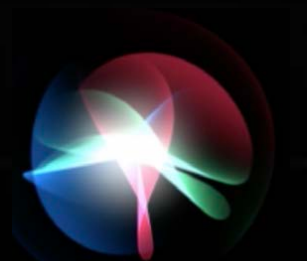
    completion(results)
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    }

    completion(results)
}
```

Demo



“Read my messages on UnicornChat”

```
open class INMessage : NSObject, NSCopying, NSSecureCoding {  
  
    open var identifier: String { get }  
  
    @available(iOS 11.0, *)  
    open var conversationIdentifier: String? { get }  
  
    open var content: String? { get }  
  
    open var dateSent: Date? { get }  
  
    @NSCopying open var sender: INPerson? { get }  
  
    open var recipients: [INPerson]? { get }  
}
```

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open class INMessage : NSObject, NSCopying, NSSecureCoding {  
  
    open var identifier: String { get }  
  
    @available(iOS 11.0, *)  
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    open var content: String? { get }  
  
    open var dateSent: Date? { get }  
  
    @NSCopying open var sender: INPerson? { get }  
  
    open var recipients: [INPerson]? { get }  
}
```



```
open class INSendMessageIntent : INIntent {  
  
    open var recipients: [INPerson]? { get }  
  
    open var content: String? { get }  
  
    open var groupName: String? { get }  
  
    open var serviceName: String? { get }  
  
    @available(iOS 11.0, *)  
    open var conversationIdentifier: String? { get }  
  
    @NSCopying open var sender: INPerson? { get }  
}
```

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open class INSendMessageIntent : INIntent {  
  
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```

Contact Resolution

Conversation identifier



“Read my messages on UnicornChat”

Contact Resolution

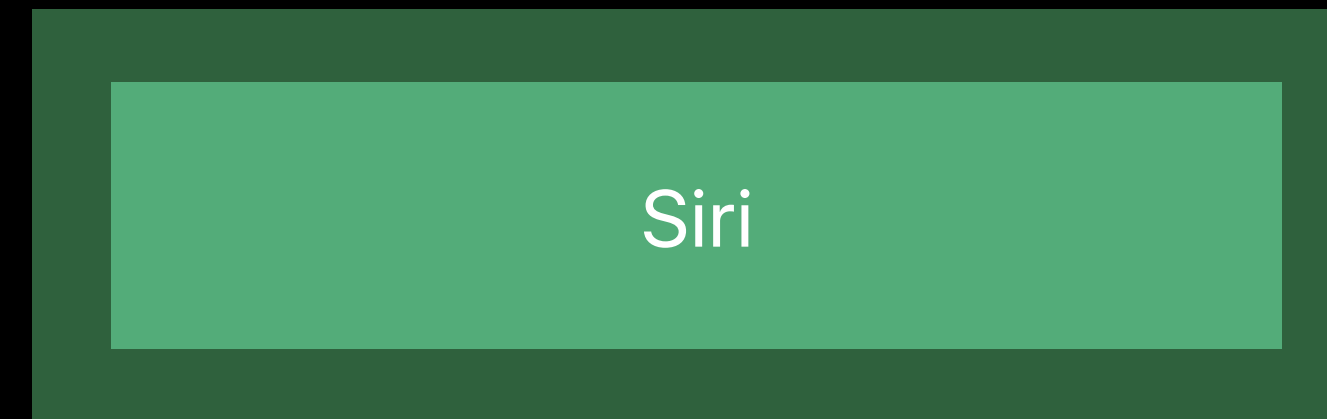
Conversation identifier

"Read my messages on UnicornChat"

Contact Resolution

Conversation identifier

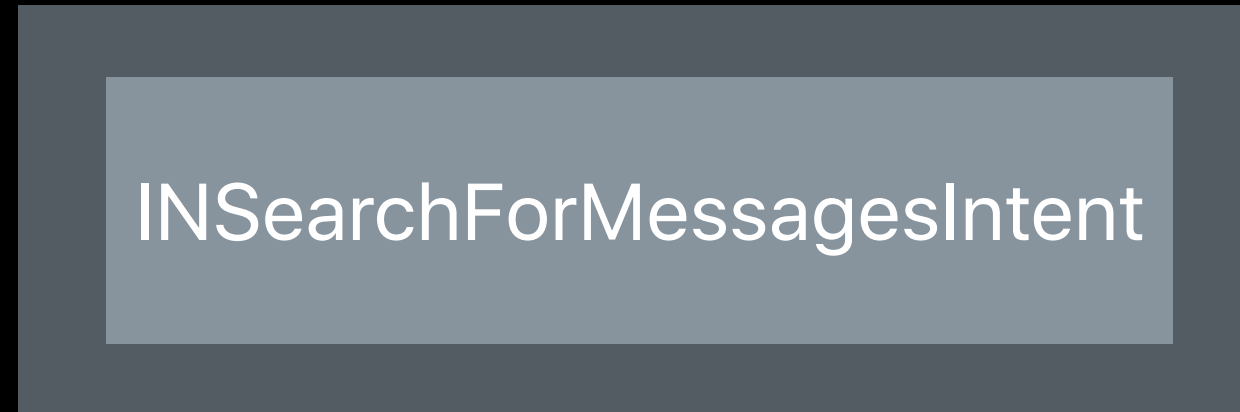
"Read my messages on UnicornChat"



Contact Resolution

Conversation identifier

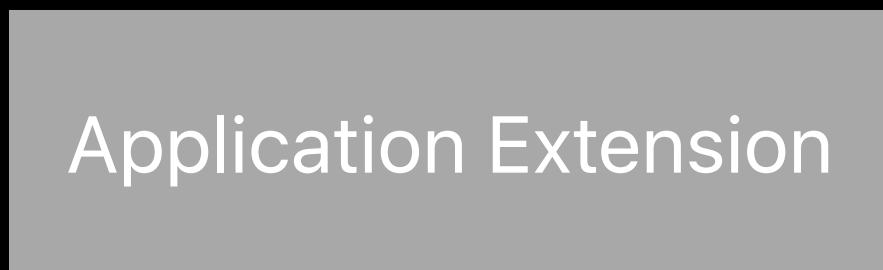
"Read my messages on UnicornChat"



Contact Resolution

Conversation identifier

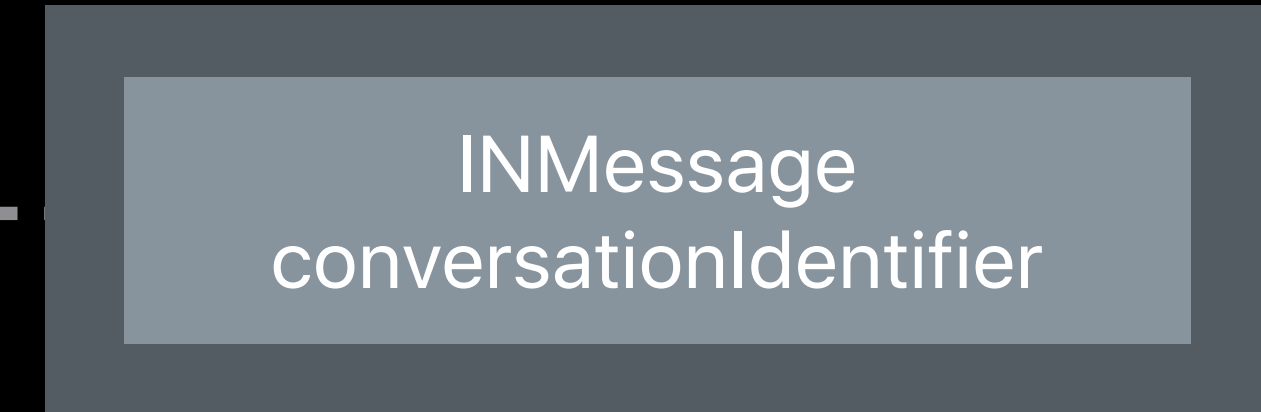
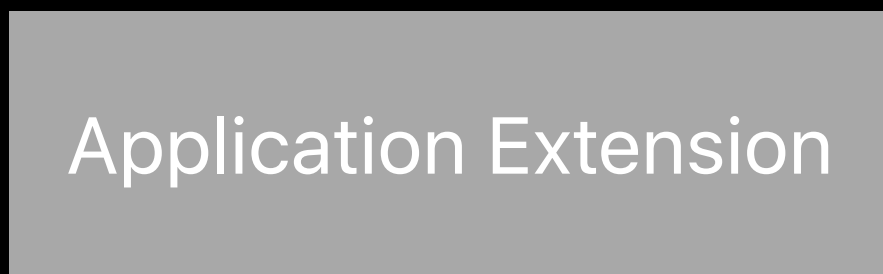
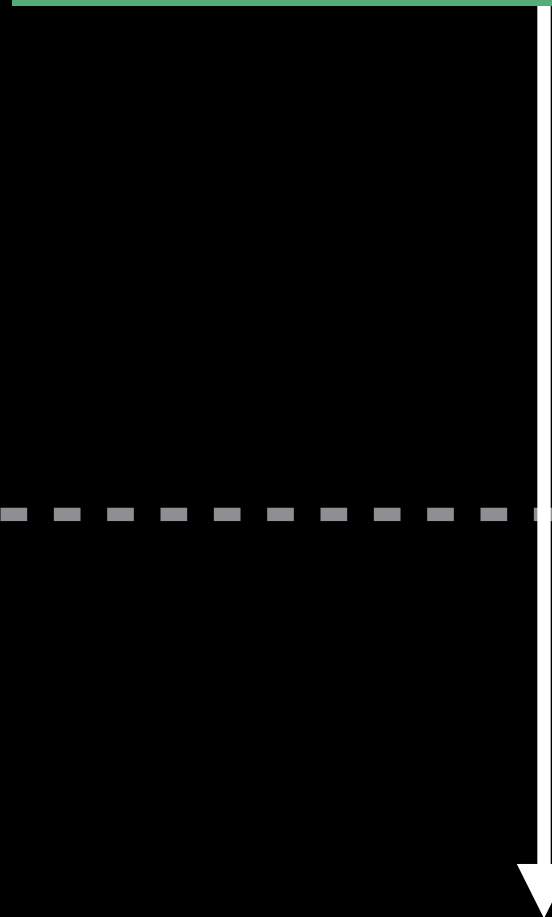
"Read my messages on UnicornChat"



Contact Resolution

Conversation identifier

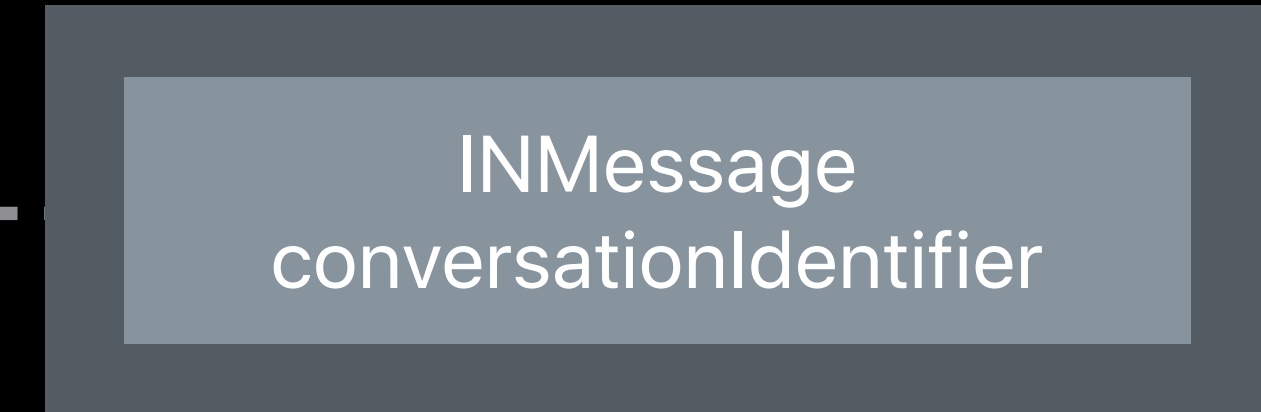
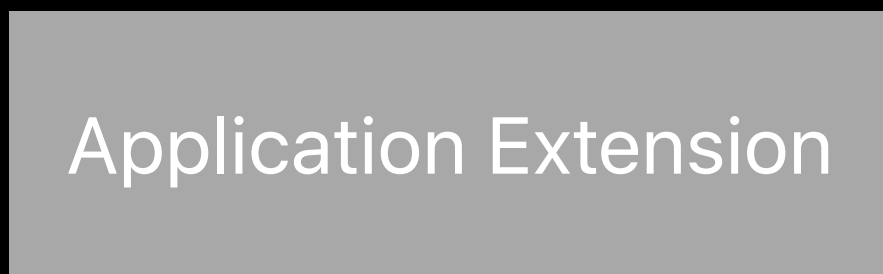
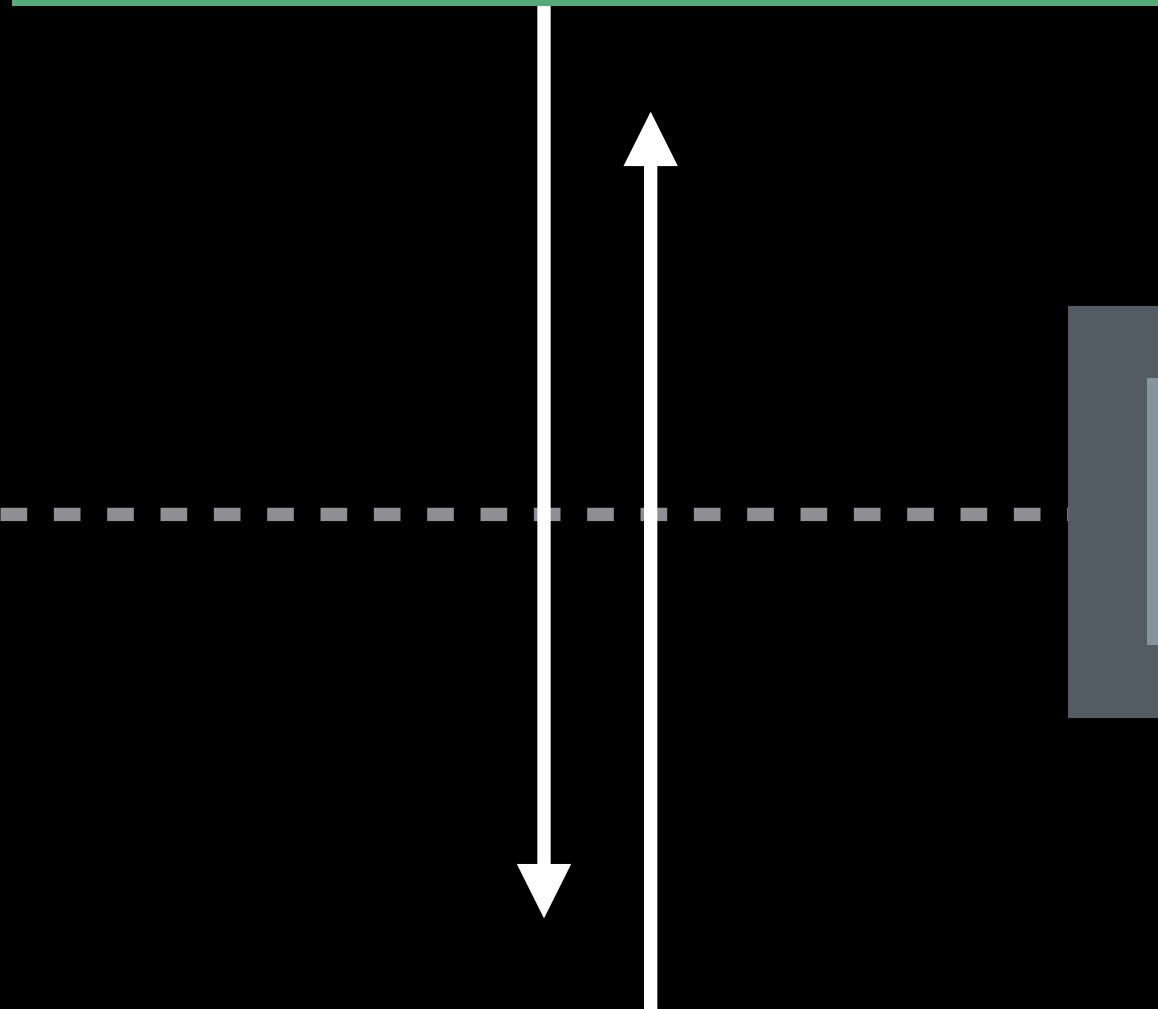
"Read my messages on UnicornChat"



Contact Resolution

Conversation identifier

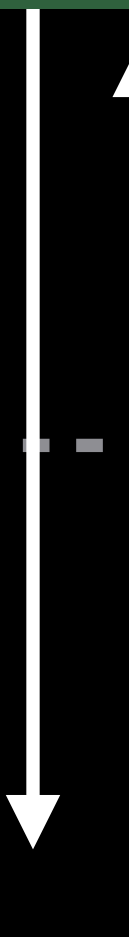
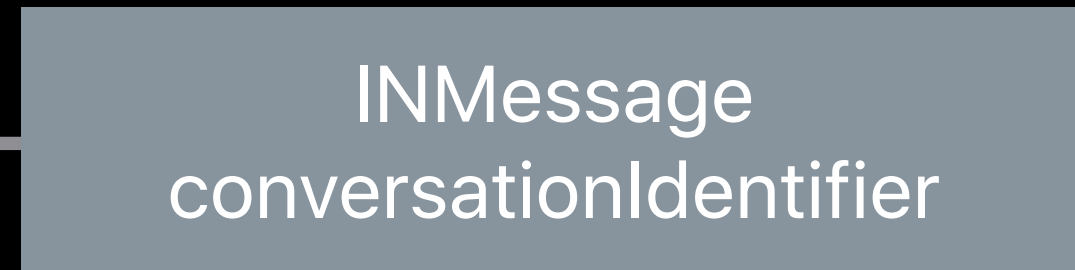
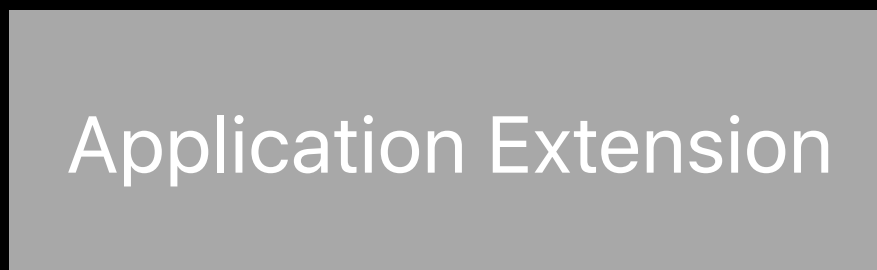
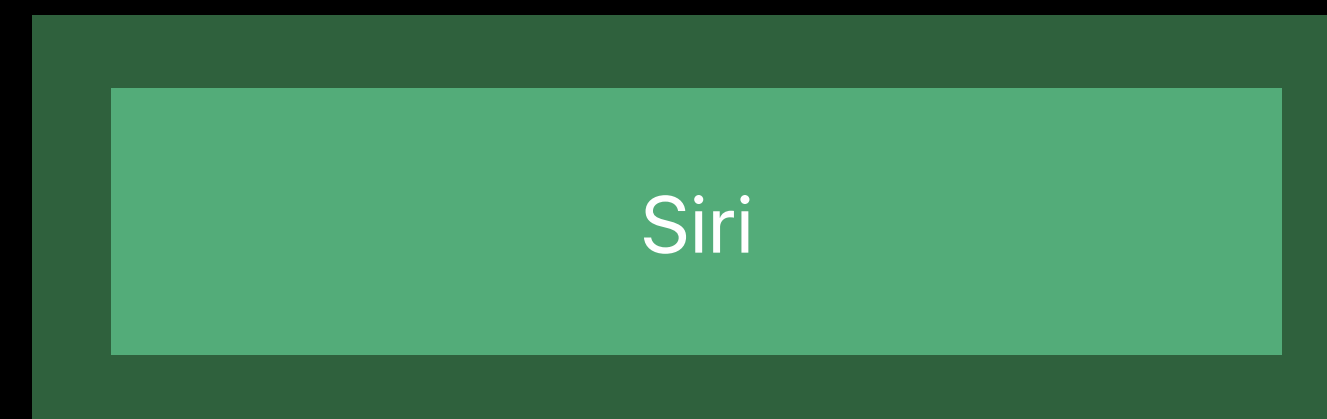
"Read my messages on UnicornChat"



Contact Resolution

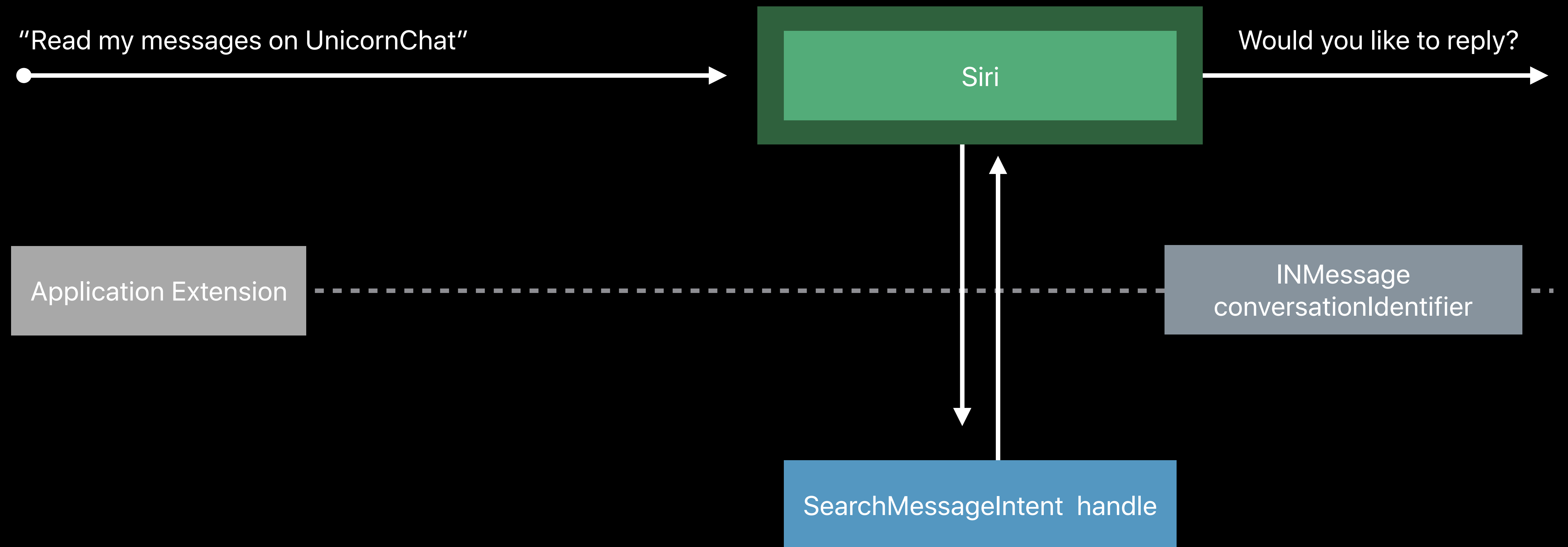
Conversation identifier

"Read my messages on UnicornChat"



Contact Resolution

Conversation identifier



Contact Resolution

Conversation identifier

"Yes, hello"

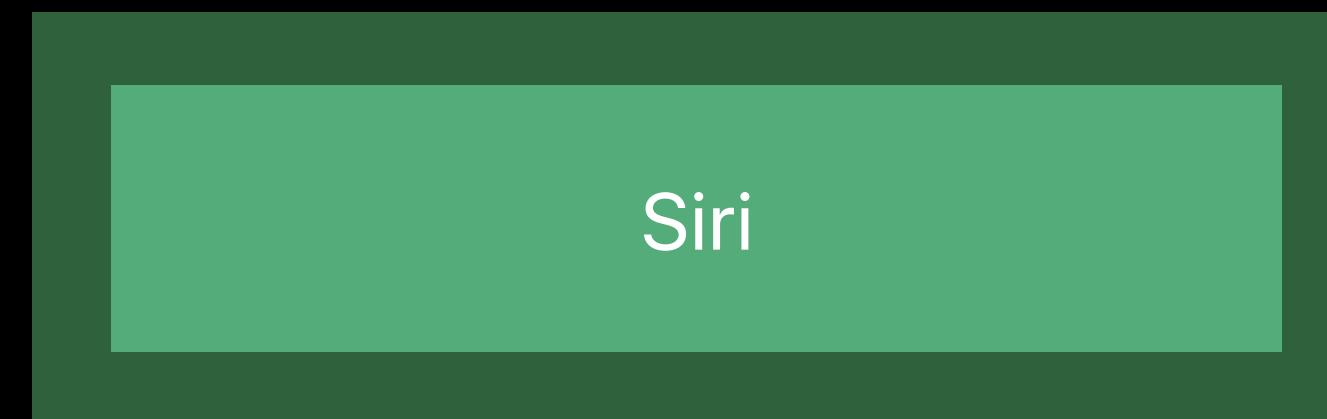
Application Extension



Contact Resolution

Conversation identifier

"Yes, hello"



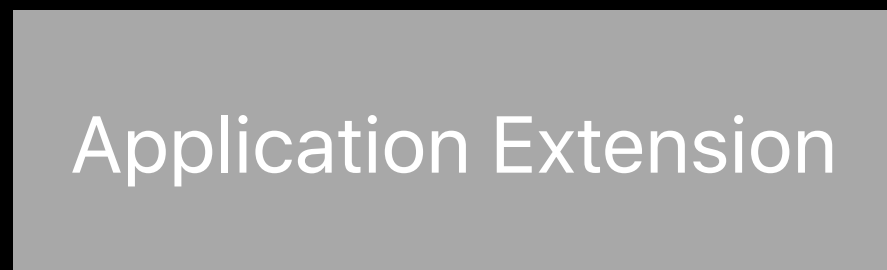
Application Extension



Contact Resolution

Conversation identifier

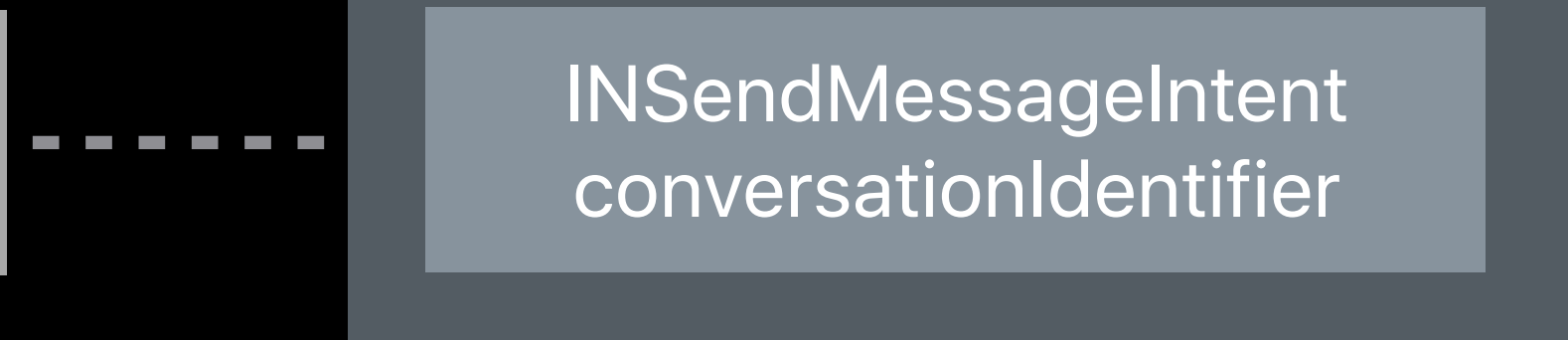
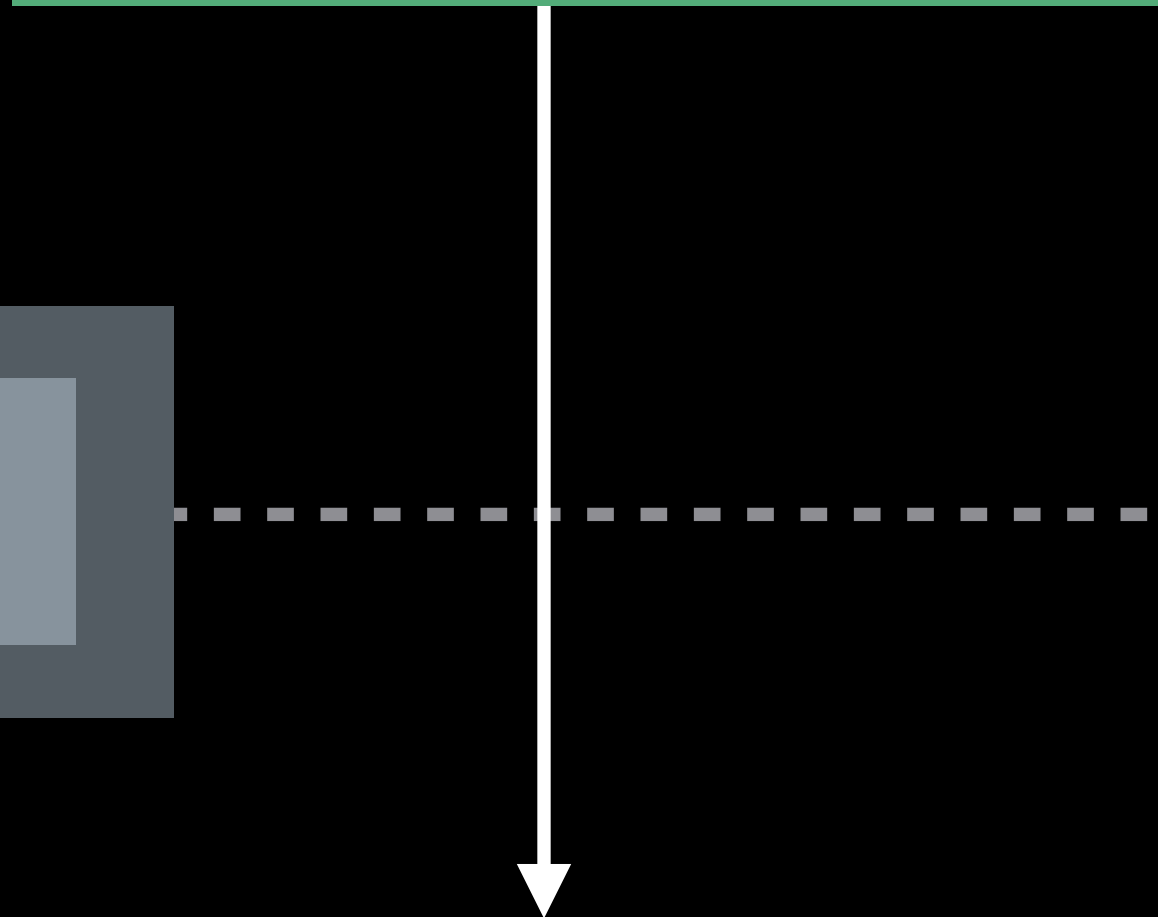
"Yes, hello"



Contact Resolution

Conversation identifier

"Yes, hello"



Contact Resolution

Conversation identifier

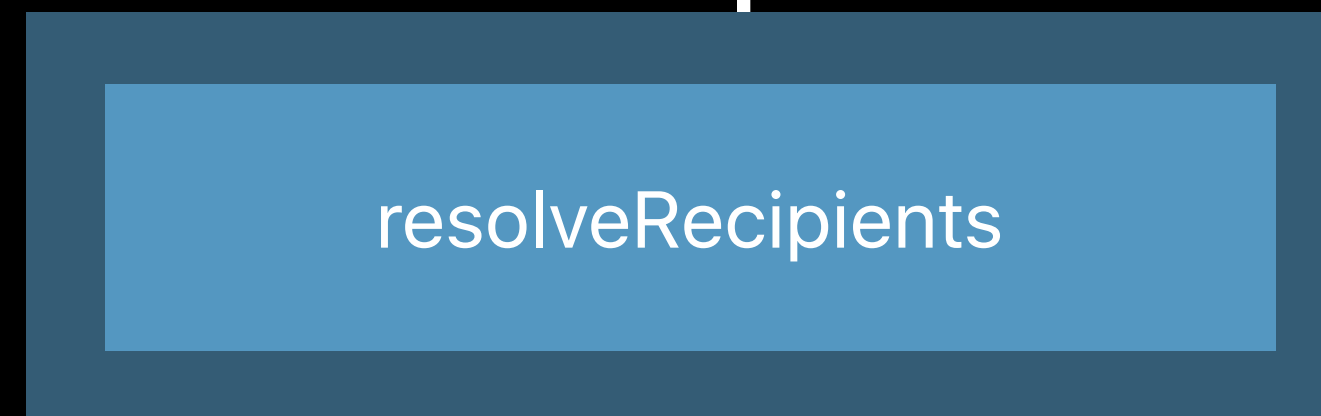
"Yes, hello"



Contact Resolution

Conversation identifier

"Yes, hello"



Related Session

[Enabling Your App for CarPlay](#)

[WWDC 2017 Video](#)



9:41 AM



Sorry, the messaging service is temporarily not available for this app.

Open UnicornChat



```
public enum INStartVideoCallIntentResponseCode : Int {  
    case unspecified  
    case ready  
    case continueInApp  
    case failure  
    case failureRequiringAppLaunch  
    case failureAppConfigurationRequired  
    case failureCallingServiceNotAvailable  
  
    @available(iOS 11.0, *)  
    case failureInvalidNumber  
}
```

```
public enum INStartVideoCallIntentResponseCode : Int {  
    case unspecified  
    case ready  
    case continueInApp  
    case failure  
    case failureRequiringAppLaunch  
    case failureAppConfigurationRequired  
    case failureCallingServiceNotAvailable  
  
    @available(iOS 11.0, *)  
    case failureInvalidNumber  
}
```

INPerson.siriMatches

INPerson.siriMatches

Multiple handles

INPerson.siriMatches

Multiple handles

Conversation identifier

INPerson.siriMatches

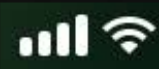
Multiple handles

Conversation identifier

Response codes

Security

Device unlock, authentication, and payments



9:41 AM



Send a UnicornChat to Ryan Orr saying I'm on my way

Here's your UnicornChat message:



UNICORNCHAT

To: Ryan Orr

I'm on my way

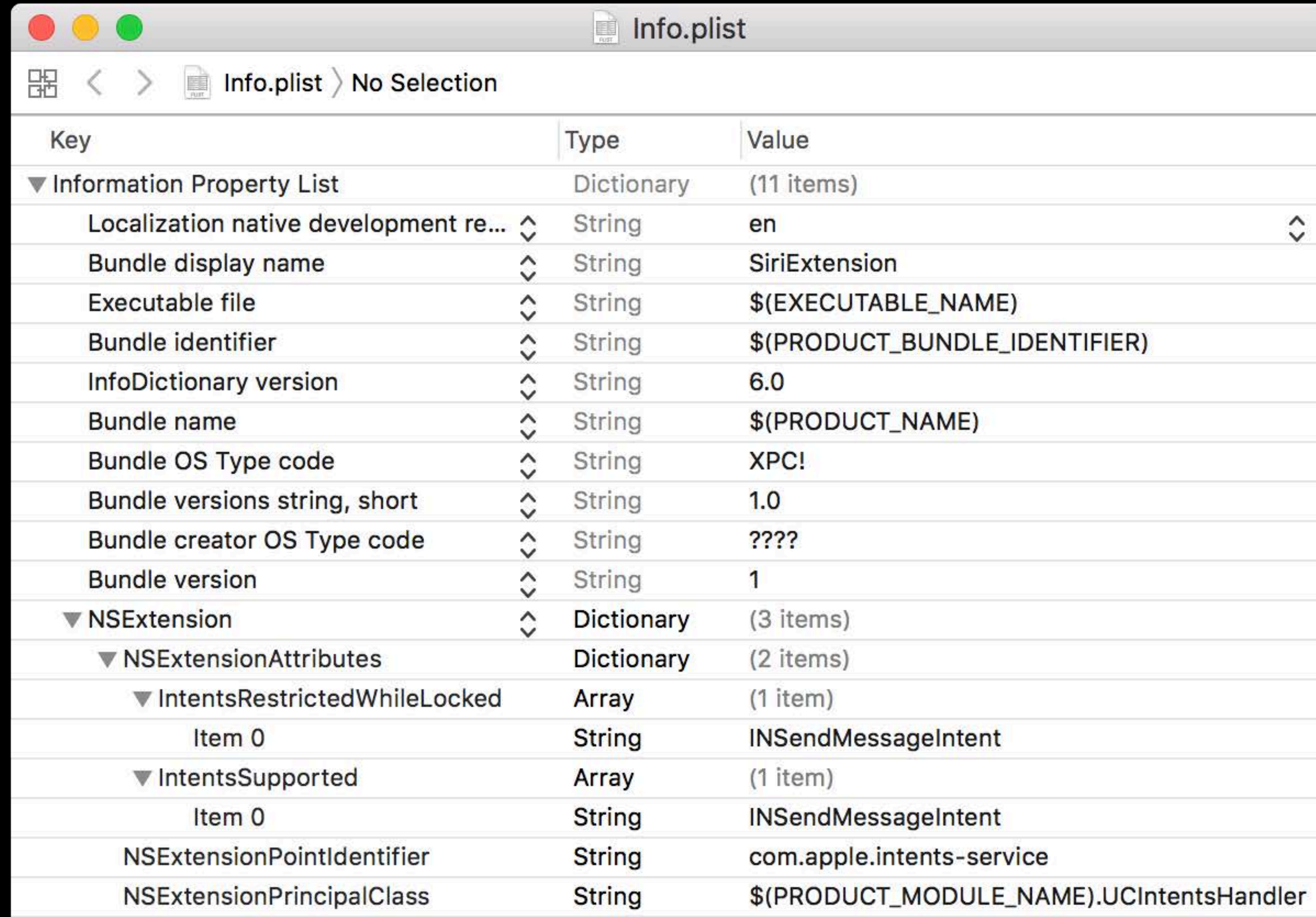
Cancel

Send



Security

Requiring device unlock



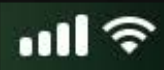
Key	Type	Value
▼ Information Property List	Dictionary	(11 items)
Localization native development re...	String	en
Bundle display name	String	SiriExtension
Executable file	String	\$(EXECUTABLE_NAME)
Bundle identifier	String	\$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version	String	6.0
Bundle name	String	\$(PRODUCT_NAME)
Bundle OS Type code	String	XPC!
Bundle versions string, short	String	1.0
Bundle creator OS Type code	String	????
Bundle version	String	1
▼ NSExtension	Dictionary	(3 items)
▼ NSExtensionAttributes	Dictionary	(2 items)
▼ IntentsRestrictedWhileLocked	Array	(1 item)
Item 0	String	INSendMessageIntent
▼ IntentsSupported	Array	(1 item)
Item 0	String	INSendMessageIntent
NSExtensionPointIdentifier	String	com.apple.intents-service
NSExtensionPrincipalClass	String	\$(PRODUCT_MODULE_NAME).UCIntentsHandler

Security

Requiring device unlock

The screenshot shows an Info.plist file with the following structure:

Key	Type	Value
Information Property List	Dictionary	(11 items)
Localization native development re...	String	en
Bundle display name	String	SiriExtension
Executable file	String	\$(EXECUTABLE_NAME)
Bundle identifier	String	\$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version	String	6.0
Bundle name	String	\$(PRODUCT_NAME)
Bundle OS Type code	String	XPC!
Bundle versions string, short	String	1.0
Bundle creator OS Type code	String	????
Bundle version	String	1
NSExtension	Dictionary	(3 items)
NSExtensionAttributes	Dictionary	(2 items)
IntentsRestrictedWhileLocked	Array	(1 item)
Item 0	String	INSendMessageIntent
IntentsSupported	Array	(1 item)
Item 0	String	INSendMessageIntent
NSExtensionPointIdentifier	String	com.apple.intents-service
NSExtensionPrincipalClass	String	\$(PRODUCT_MODULE_NAME).UCIntentsHandler



9:41 AM

100% 

Send a UnicornChat to Ryan
Orr saying I'm on my way

**You'll need to unlock your
iPhone first.**

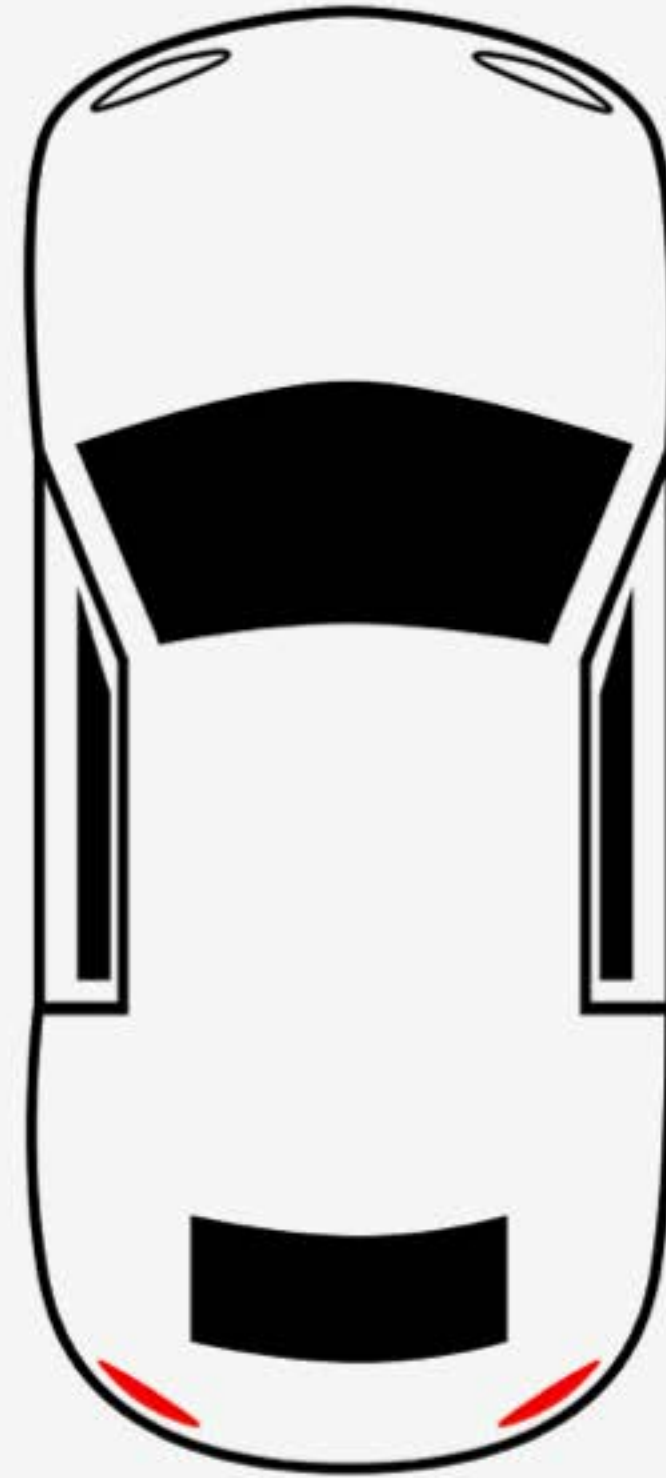




9:41 AM

100%

First Car

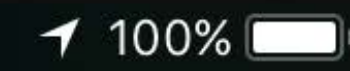


First

Second



9:41 AM



Unlock my car

OK, I've unlocked it.

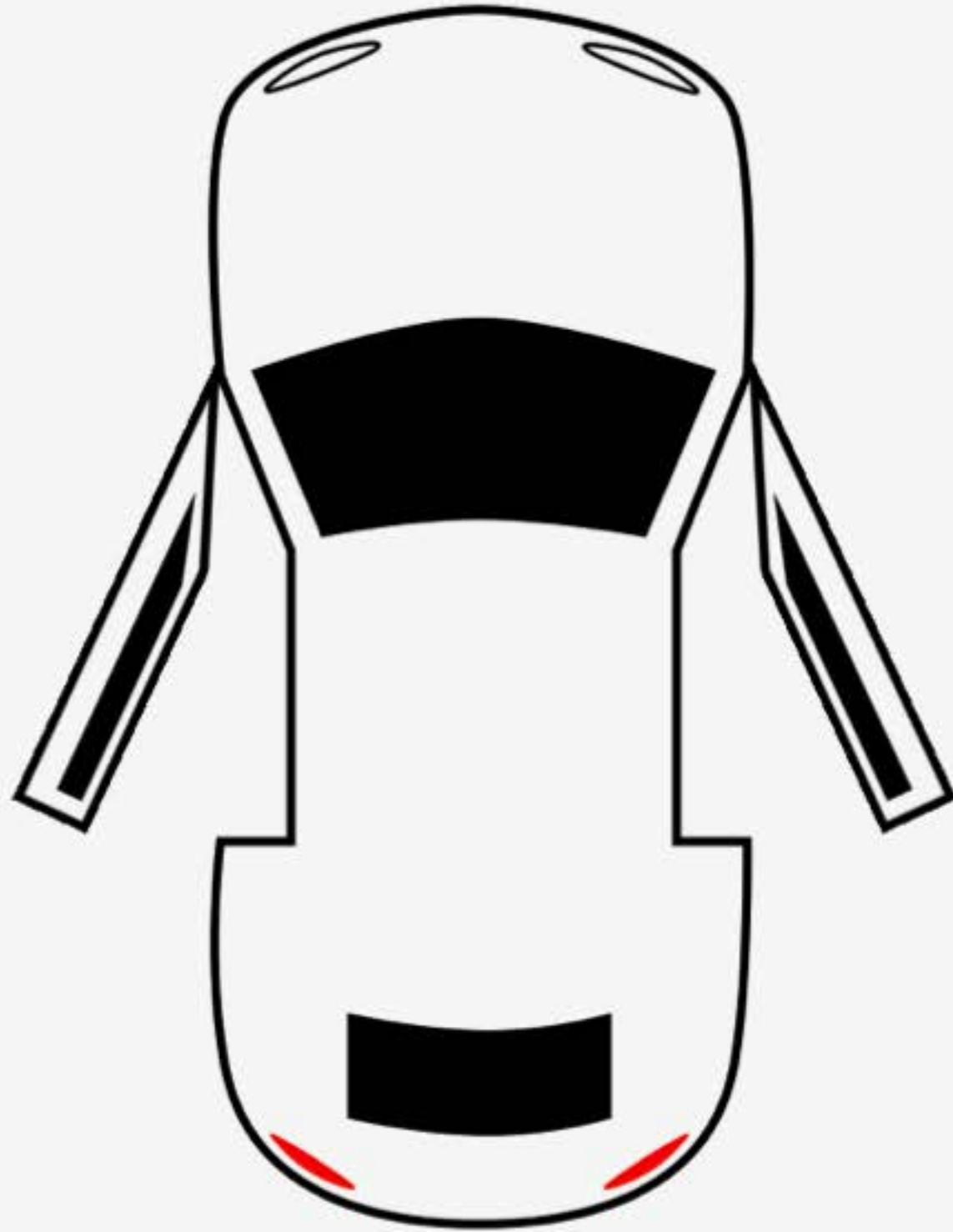




9:41 AM

100%

First Car



First

Second



9:41 AM

100%

Unlock my car
You'll need to authorize this.



Touch ID

Allow Siri to unlock your car

Cancel





9:41 AM

100%

Unlock my car
You'll need to authorize this.



Touch ID

Allow Siri to unlock your car

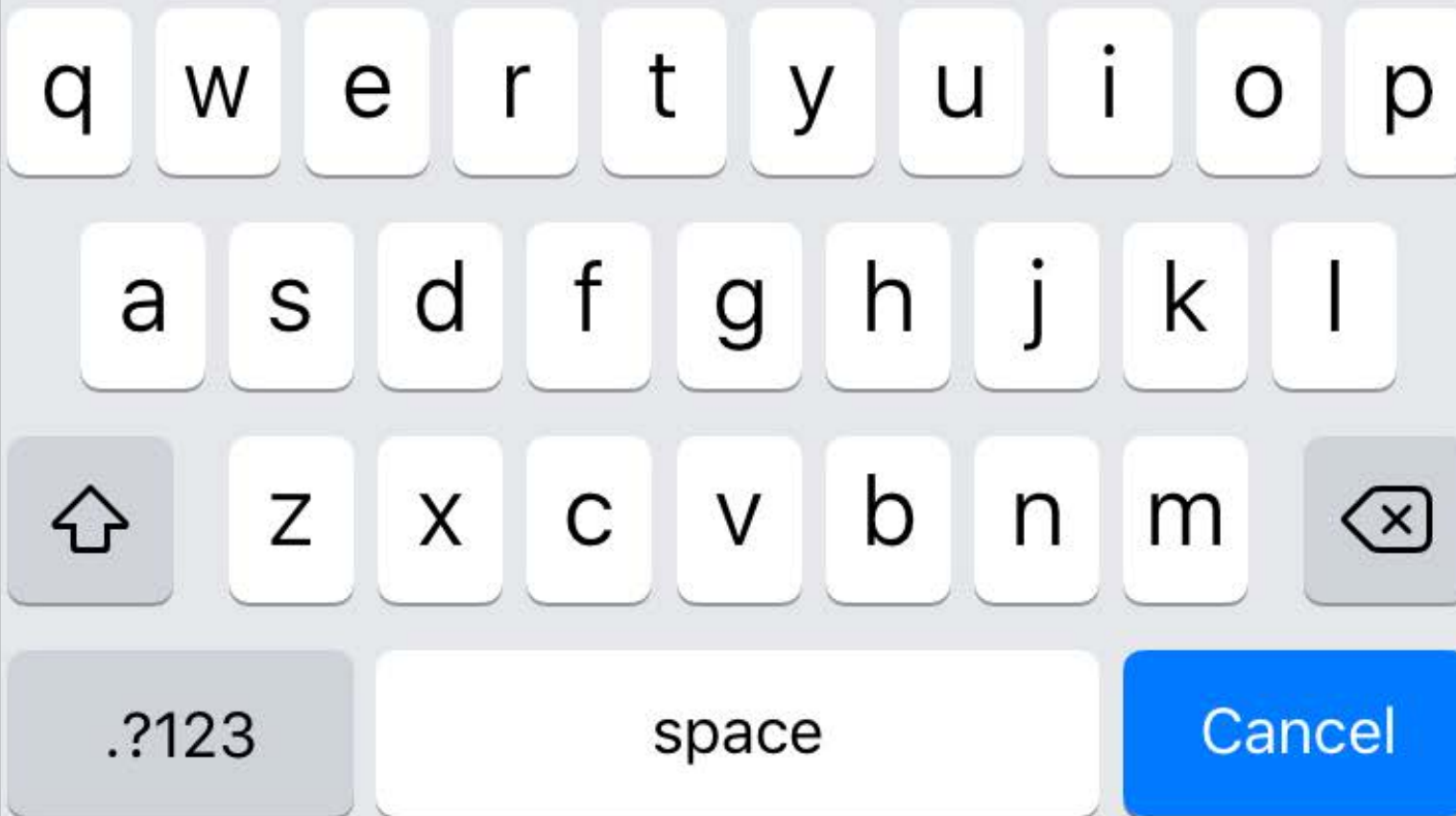
Cancel



Enter iPhone passcode

Allow Siri to unlock your car

|



Enter iPhone passcode

Allow Siri to unlock your car

|

q w e r t y u i o p

a s d f g h j k l

⌵ z x c v b n m ⌫

.?123

space

Cancel

Demo

Security

LocalAuthentication.framework

Security

LocalAuthentication.framework

Multiple forms of authentication

Security

LocalAuthentication.framework

Multiple forms of authentication

- TouchID

Security

LocalAuthentication.framework

Multiple forms of authentication

- TouchID
- Passcode

Security

LocalAuthentication.framework

Multiple forms of authentication

- TouchID
- Passcode

Call in your handle method

Security

LocalAuthentication.framework

Multiple forms of authentication

- TouchID
- Passcode

Call in your handle method

Siri waits for user input

Security

LocalAuthentication.framework

Multiple forms of authentication

- TouchID
- Passcode

Call in your handle method

Siri waits for user input



9:41 AM

100%

Book a RainbowCar on
UnicornRides

**UnicornRides can get you a
RainbowCar in 5 minutes.
Do you want to request it?**



UNICORNRIDES

Get a Ride



Type RainbowCar

From 1000 Stockton St >

Cancel

Request





9:41 AM

100%

Book a RainbowCar on
UnicornRides

**UnicornRides can get you a
RainbowCar in 5 minutes.
Do you want to request it?**



UNICORNRIDES



UnicornRides is handling your reque...

Pay

Cancel

SIMULATED CARD - AMEX
(•••• 1234)

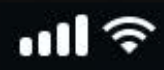
PAY RIDE FEE \$30.00



Pay with Touch ID

Custom Vocabulary

User-specific and app global



9:41 AM

100% 

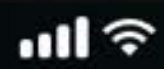
Check balance on
UnicornPay

**Which account are you
looking for?**

NestEgg

SharedAccount





9:41 AM



Check balance in my nest
egg on UnicornPay

**UnicornPay didn't find that
account.**

Ok, Which account?



Custom Vocabulary

User-specific

Custom Vocabulary

User-specific

Help Siri understand words unique to users

Custom Vocabulary

User-specific

Help Siri understand words unique to users

- Contact, photo album and keyword, car, workout, bank, account, note, list item

Custom Vocabulary

User-specific

Help Siri understand words unique to users

- Contact, photo album and keyword, car, workout, bank, account, note, list item

Use INVocabulary API

Custom Vocabulary

User-specific

Help Siri understand words unique to users

- Contact, photo album and keyword, car, workout, bank, account, note, list item

Use INVocabulary API

Introducing SiriKit

WWDC 2016

Extending your apps with SiriKit

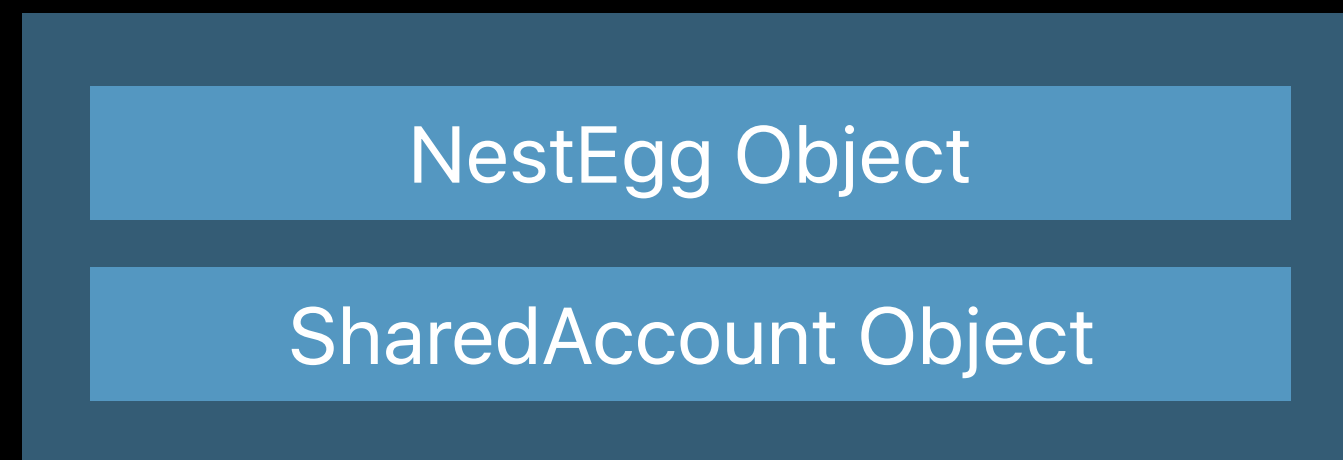
WWDC 2016

Custom Vocabulary

INVocabulary

Siri

Application



Custom Vocabulary

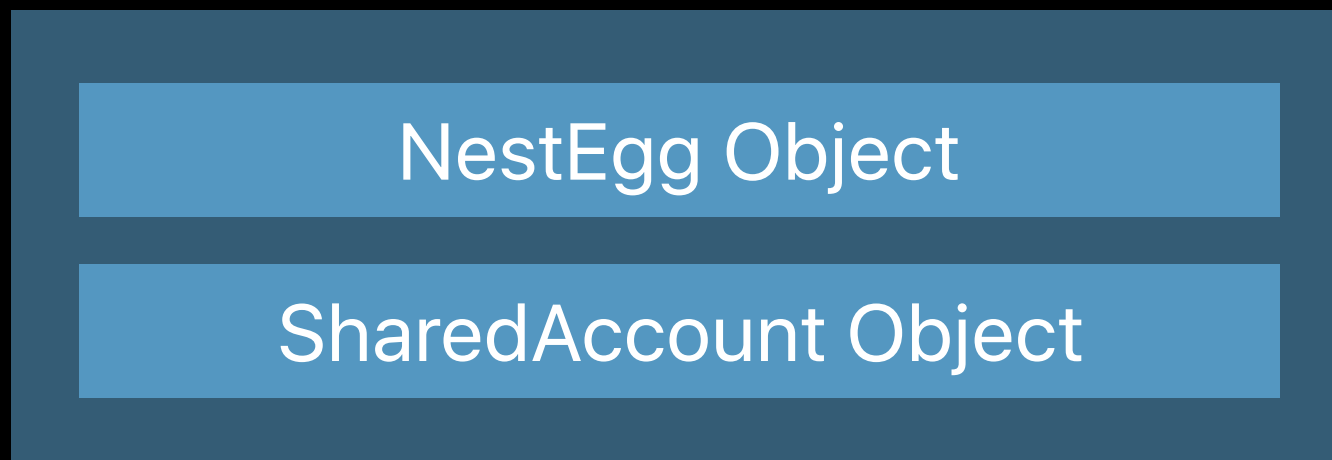
IN Vocabulary

Siri

Application

"NestEgg"

"SharedAccount"

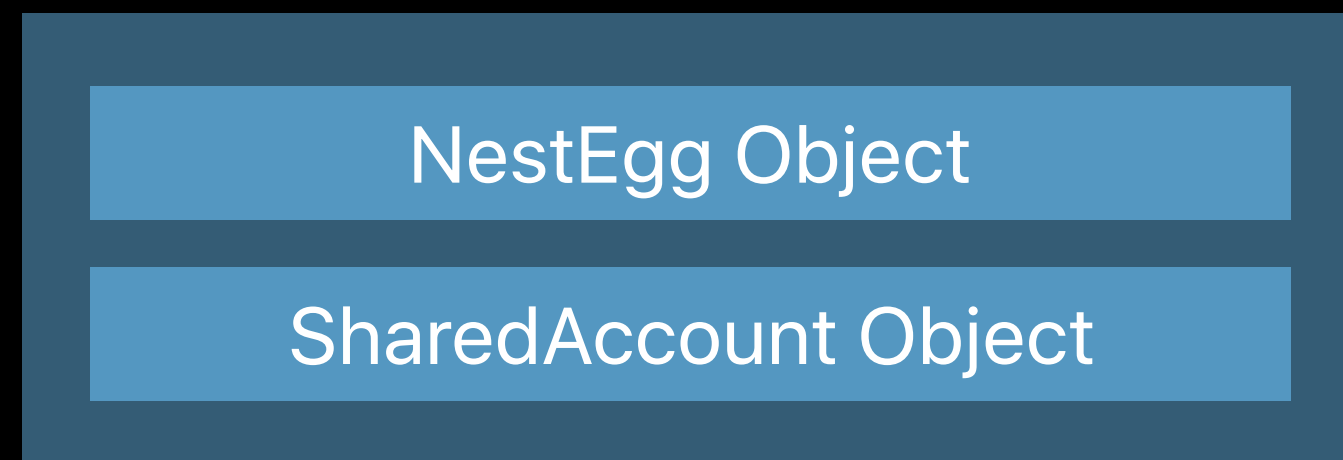


Custom Vocabulary

INVocabulary

Siri

Application



Custom Vocabulary

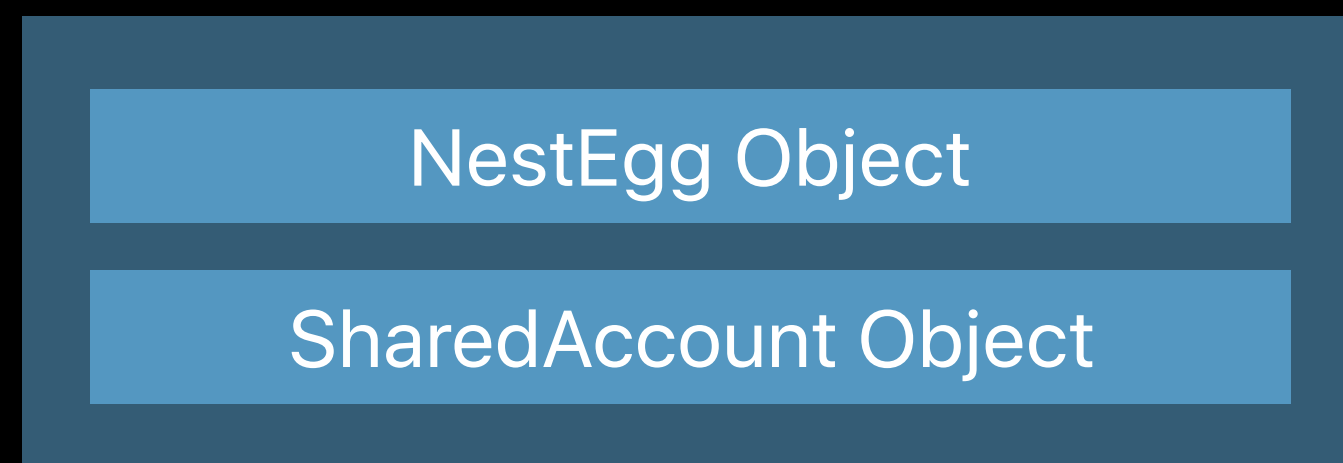
IN Vocabulary

Siri

"NestEgg"

"SharedAccount"

Application



Custom Vocabulary

IN Vocabulary

Siri

"NestEgg"
"SharedAccount"

Application



NestEgg Object
SharedAccount Object

Custom Vocabulary

INVocabulary



“Show my nest egg balance”

Custom Vocabulary

IN Vocabulary

"Show my nest egg balance"

Siri

"NestEgg"

"SharedAccount"

Application

NestEgg Object

SharedAccount Object

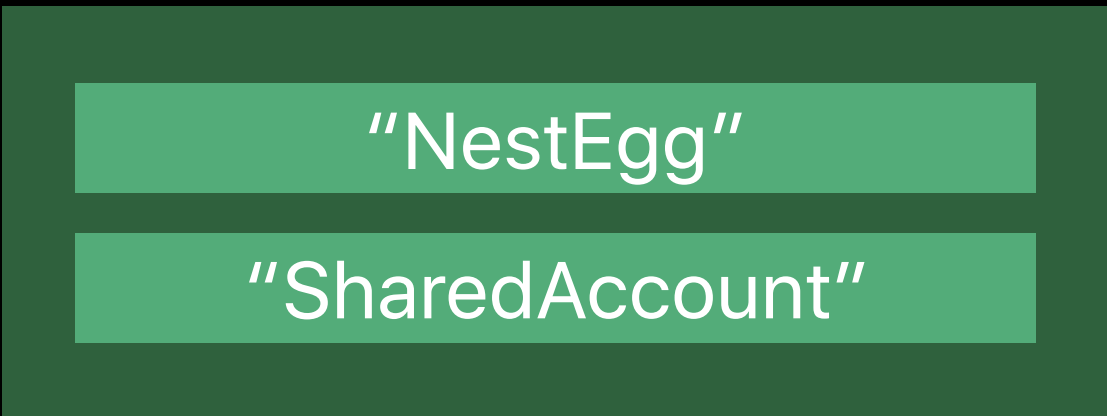
Custom Vocabulary

INVocabulary

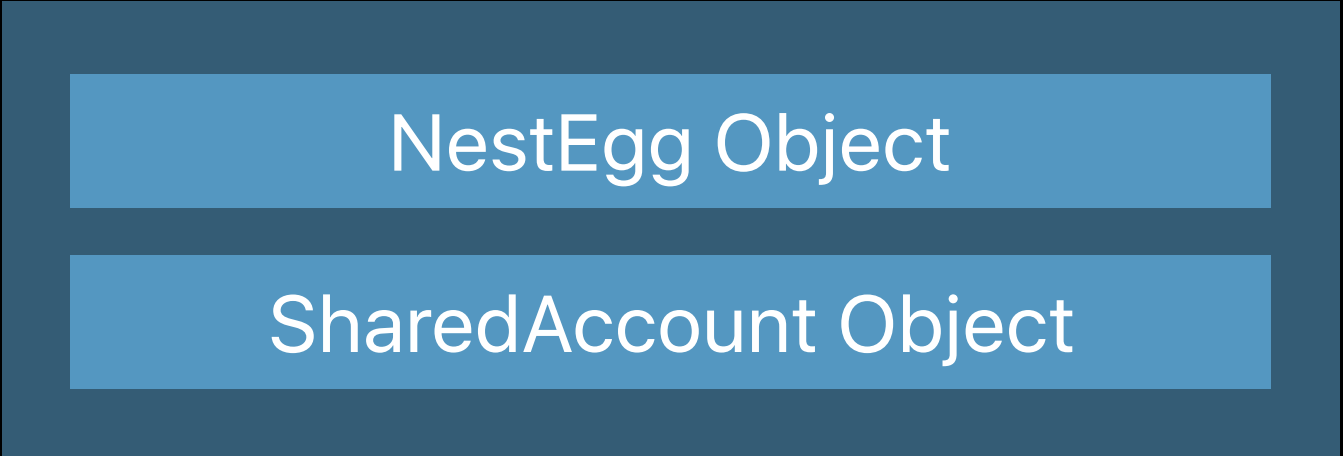
"Show my nest egg balance"



Siri



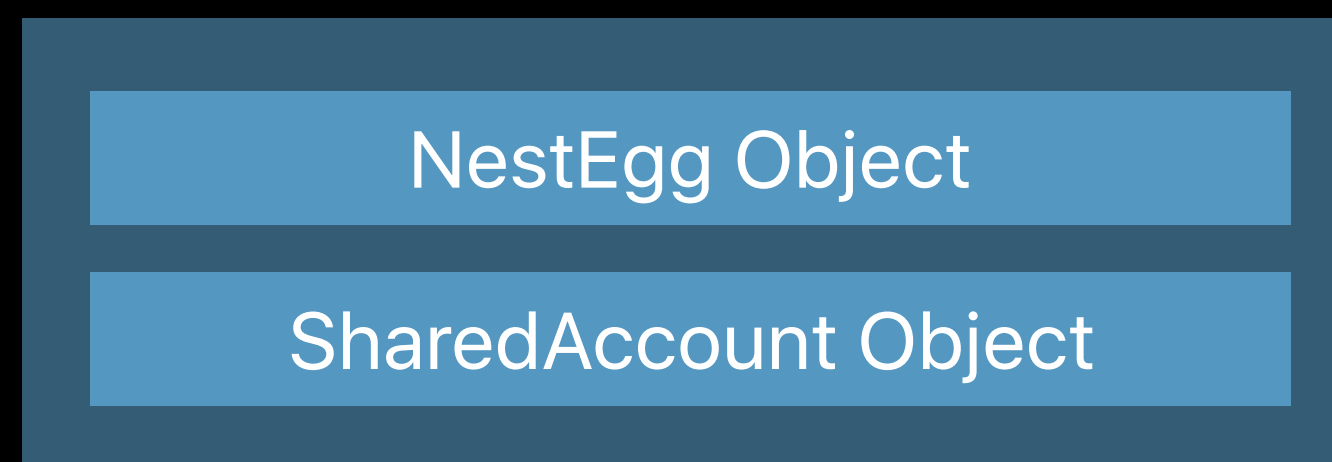
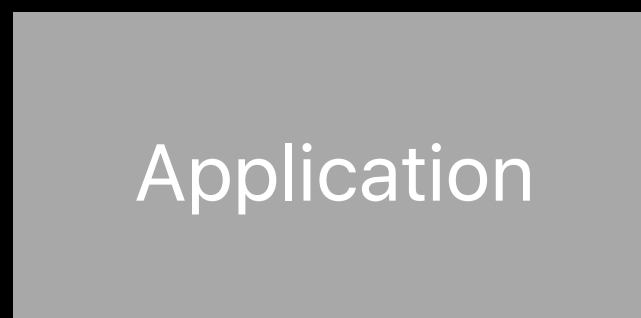
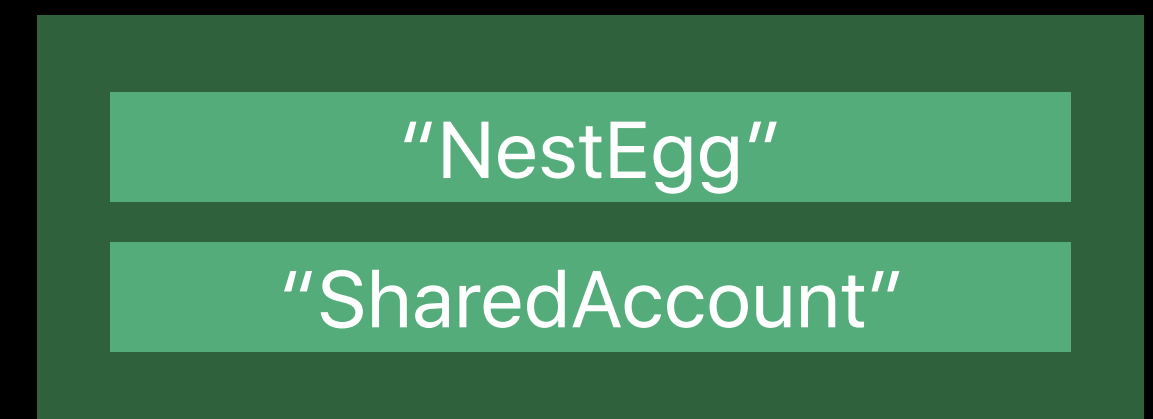
Application



Custom Vocabulary

INVocabulary

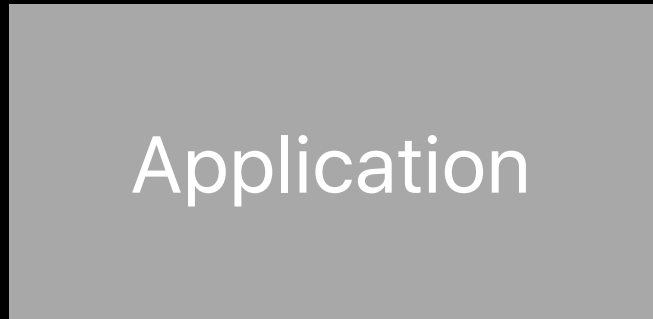
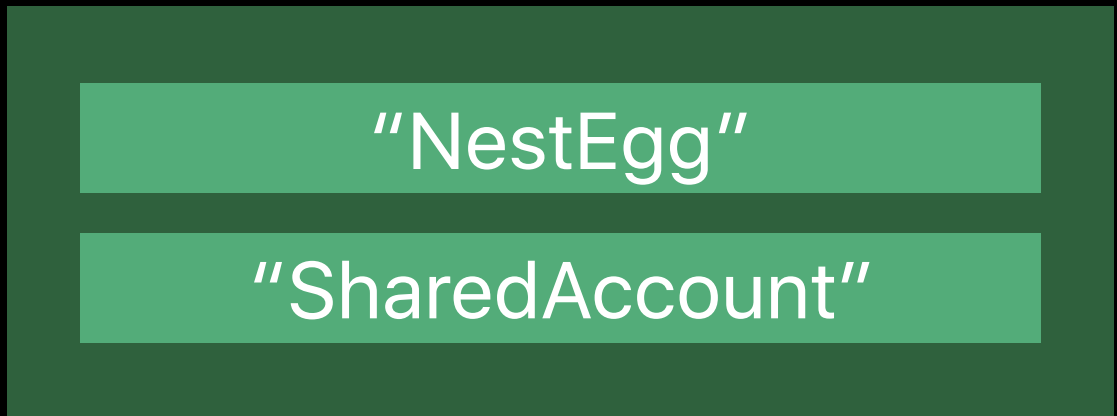
"Show my nest egg balance"



Custom Vocabulary

INVocabulary

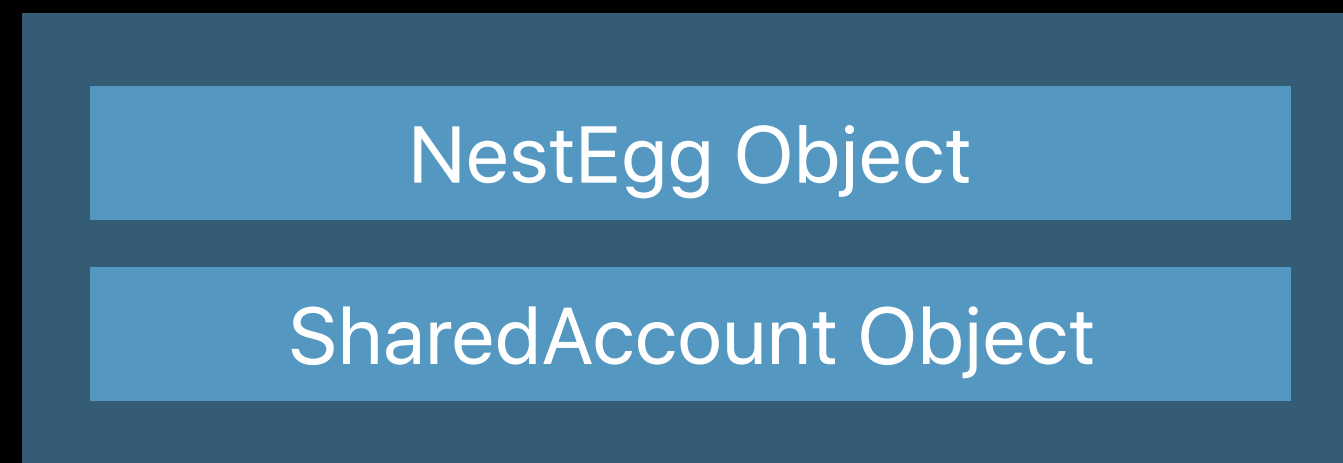
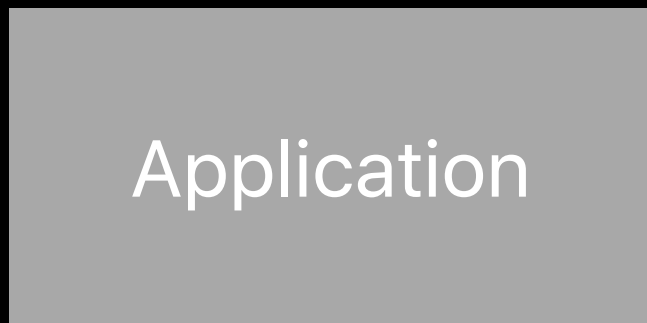
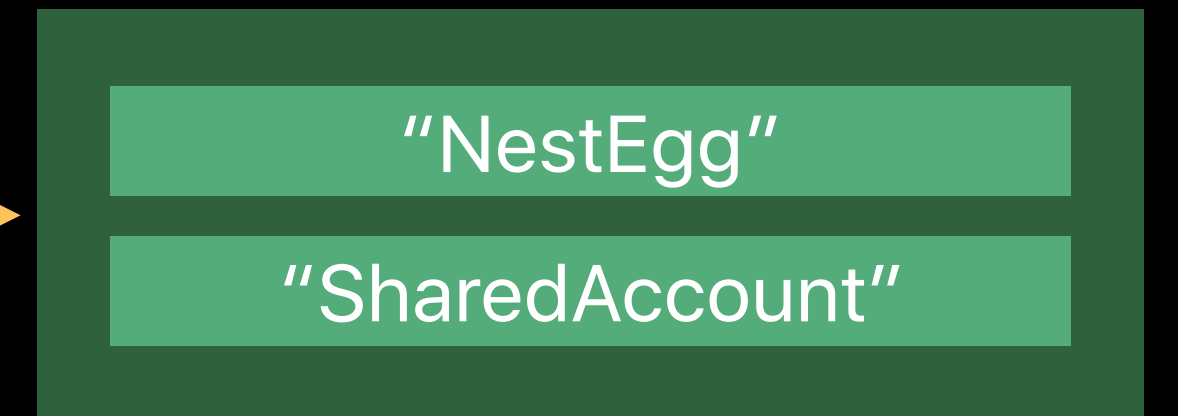
"Show my nest egg balance"



Custom Vocabulary

IN Vocabulary

"Show my NestEgg balance"



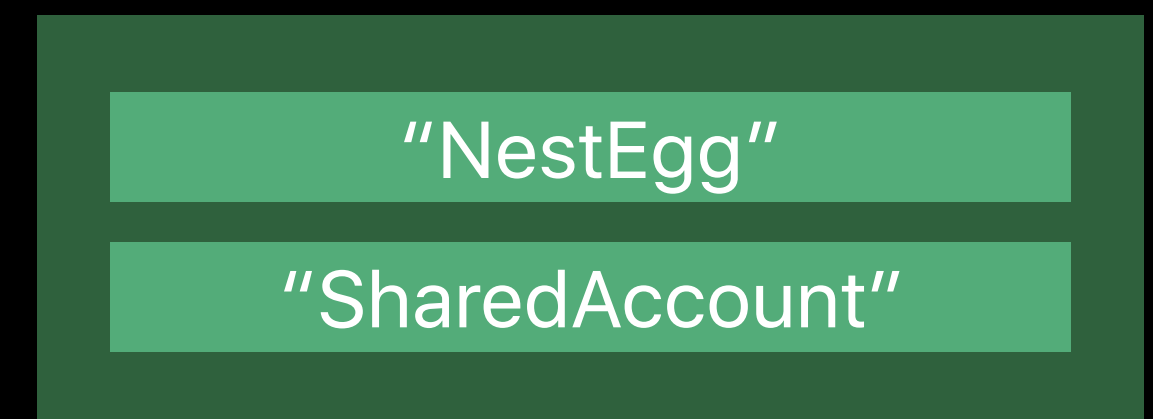
Custom Vocabulary

INVocabulary

"Show my NestEgg balance"



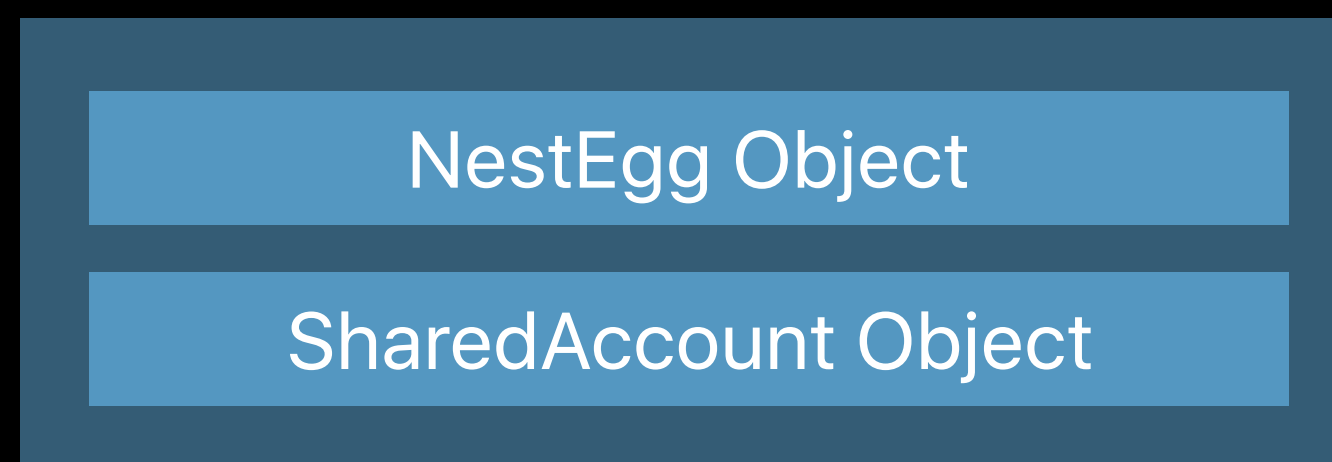
Siri



Application



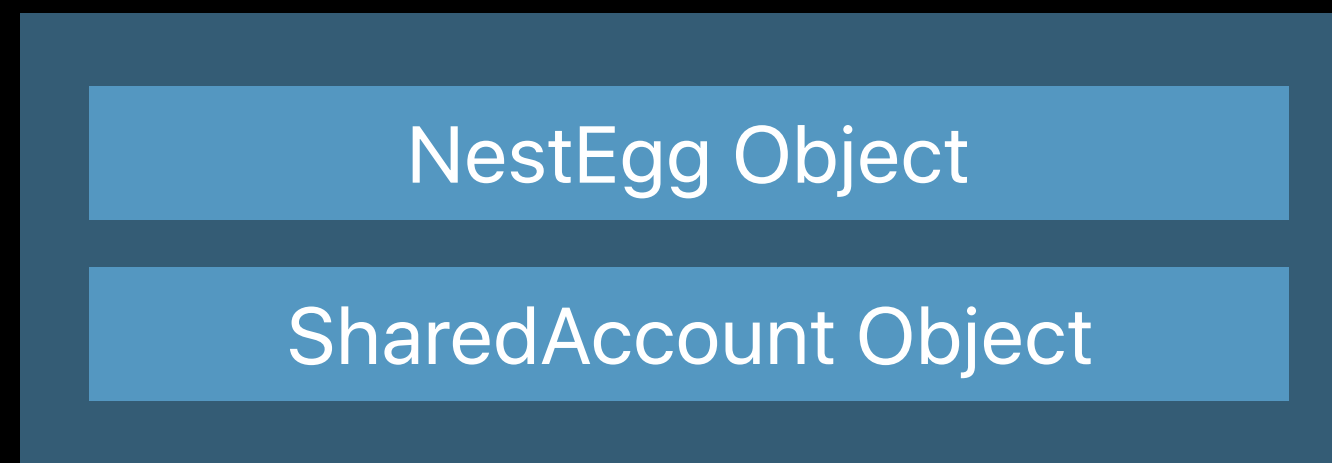
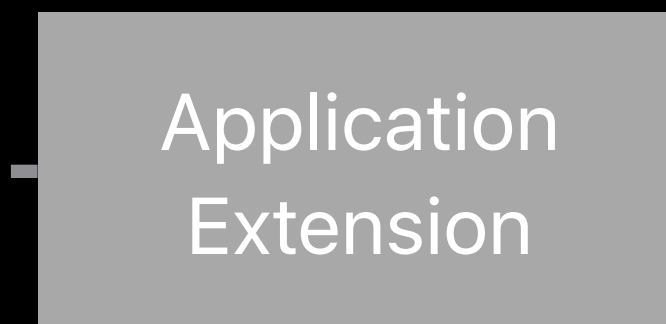
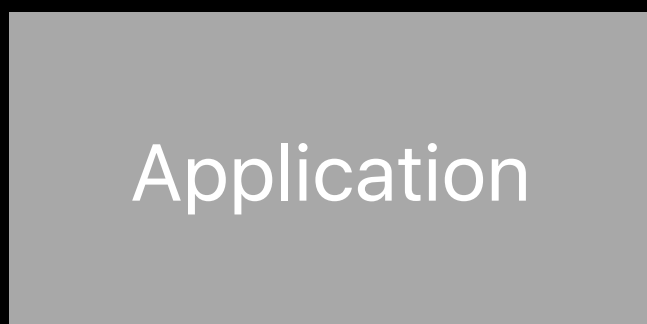
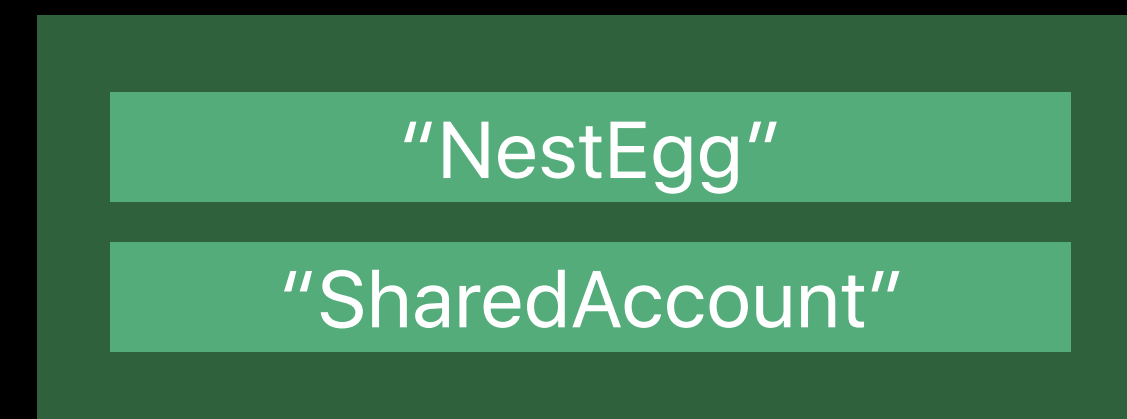
Application Extension



Custom Vocabulary

IN Vocabulary

"Show my NestEgg balance"



Fuzzy match Object for "NestEgg"



```
open class INVocabulary : NSObject {
    open func setVocabularyStrings(_ vocabulary: NSOrderedSet, of type: INVocabularyStringType)

    @available(iOS 11.0, *)
    open func setVocabulary(_ vocabulary: NSOrderedSet, of type: INVocabularyStringType)
    // vocabulary items can be of any type that conforms to the INSpeakable protocol
}
```



NEW

```
open class INVocabulary : NSObject {  
    open func setVocabularyStrings(_ vocabulary: NSOrderedSet, of type: INVocabularyStringType)  
  
    @available(iOS 11.0, *)  
    open func setVocabulary(_ vocabulary: NSOrderedSet, of type: INVocabularyStringType)  
    // vocabulary items can be of any type that conforms to the INSpeakable protocol  
}
```



```
public protocol INSpeakable : NSObjectProtocol {

    public var spokenPhrase: String { get }
    // "NestEgg", "Spyn"

    public var pronunciationHint: String? { get }
    // "nest egg", "spin"

    public var vocabularyIdentifier: String? { get }
    // "nestegg", "object-id:456ABCDEF1237890"

    public var alternativeSpeakableMatches: [INSpeakable]? { get }
}
```

```
public protocol INSpeakable : NSObjectProtocol {  
  
    public var spokenPhrase: String { get }  
    // "NestEgg", "Spyn"  
  
    public var pronunciationHint: String? { get }  
    // "nest egg", "spin"  
  
    public var vocabularyIdentifier: String? { get }  
    // "nestegg", "object-id:456ABCDEF1237890"  
  
    public var alternativeSpeakableMatches: [INSpeakable]? { get }  
}
```

```
public protocol INSpeakable : NSObjectProtocol {  
  
    public var spokenPhrase: String { get }  
    // "NestEgg", "Spyn"  
  
    public var pronunciationHint: String? { get }  
    // "nest egg", "spin"  
  
    public var vocabularyIdentifier: String? { get }  
    // "nestegg", "object-id:456ABCDEF1237890"  
  
    public var alternativeSpeakableMatches: [INSpeakable]? { get }  
}
```

```
public protocol INSpeakable : NSObjectProtocol {  
  
    public var spokenPhrase: String { get }  
    // "NestEgg", "Spyn"  
  
    public var pronunciationHint: String? { get }  
    // "nest egg", "spin"  
  
    public var vocabularyIdentifier: String? { get }  
    // "nestegg", "object-id:456ABCDEF1237890"  
  
    public var alternativeSpeakableMatches: [INSpeakable]? { get }  
}
```

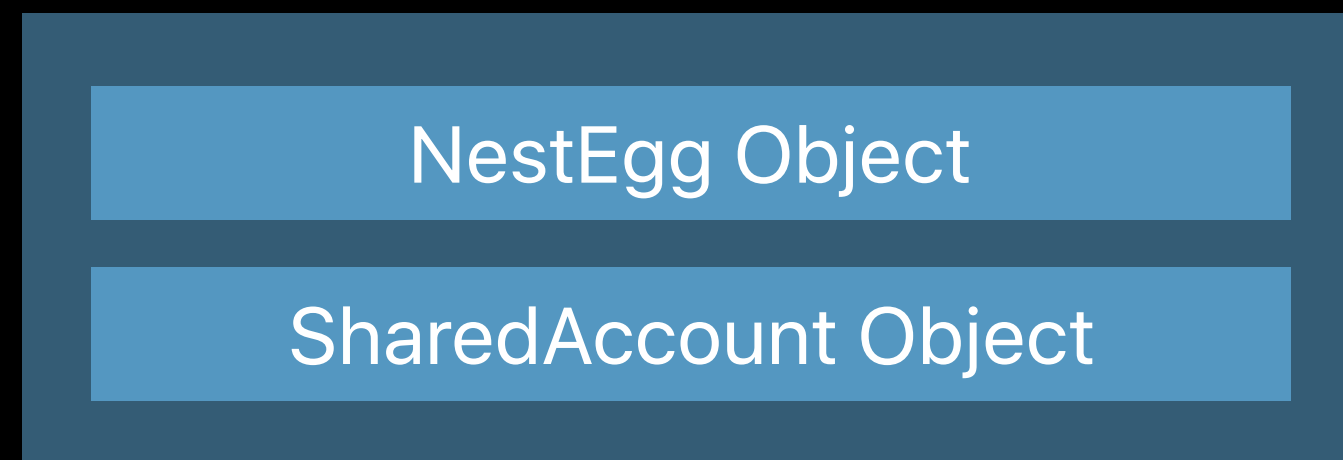
```
public protocol INSpeakable : NSObjectProtocol {  
  
    public var spokenPhrase: String { get }  
    // "NestEgg", "Spyn"  
  
    public var pronunciationHint: String? { get }  
    // "nest egg", "spin"  
  
    public var vocabularyIdentifier: String? { get }  
    // "nestegg", "object-id:456ABCDEF1237890"  
  
    public var alternativeSpeakableMatches: [INSpeakable]? { get }  
}
```

Custom Vocabulary

INVocabulary

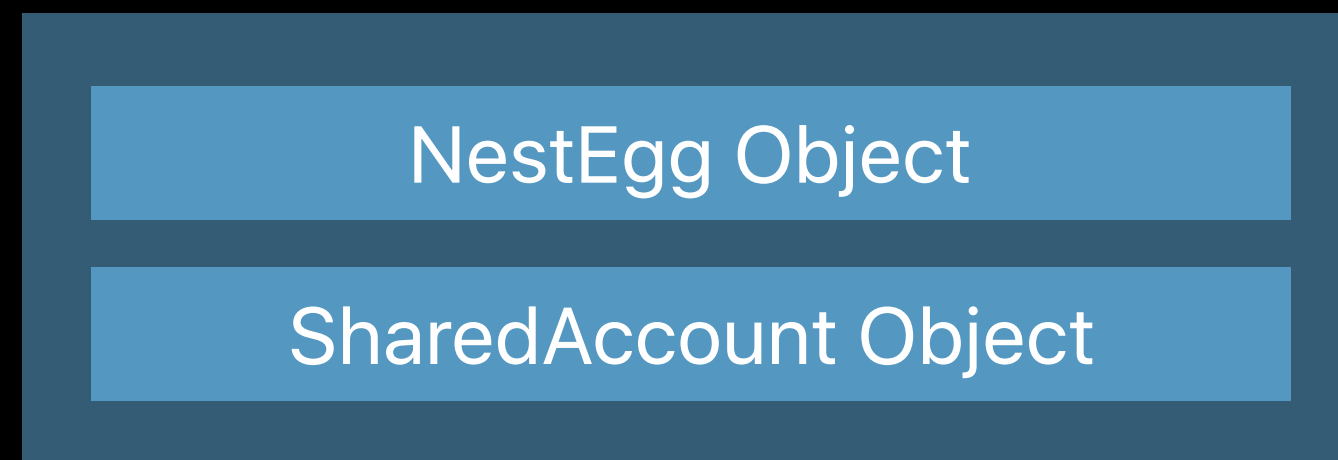
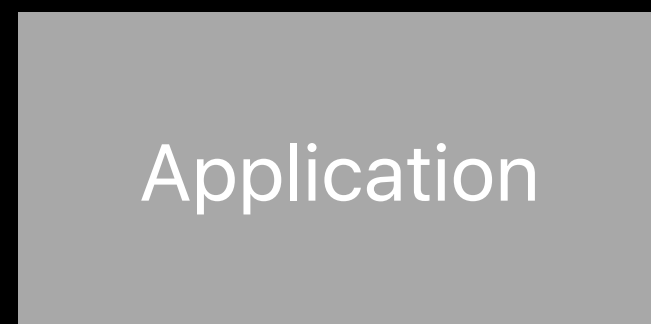
Siri

Application



Custom Vocabulary

INVocabulary



Custom Vocabulary

INVocabulary

Siri

Application



NestEgg Object

SharedAccount Object

Custom Vocabulary

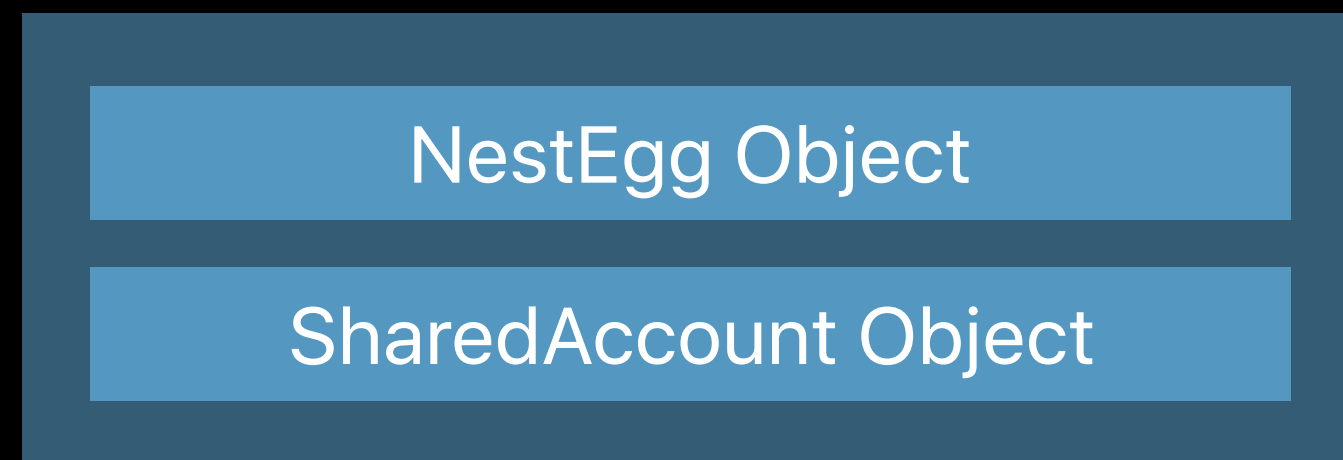
IN Vocabulary

Siri

NestEgg <INSpeakable>

SharedAccount <INSpeakable>

Application



Custom Vocabulary

INVocabulary

Siri

NestEgg <INSpeakable>
SharedAccount <INSpeakable>

Application



NestEgg Object
SharedAccount Object

Custom Vocabulary

INVocabulary



“Show my nest egg balance”

Custom Vocabulary

INVocabulary

"Show my nest egg balance"

Siri

NestEgg <INSpeakable>

SharedAccount <INSpeakable>

Application

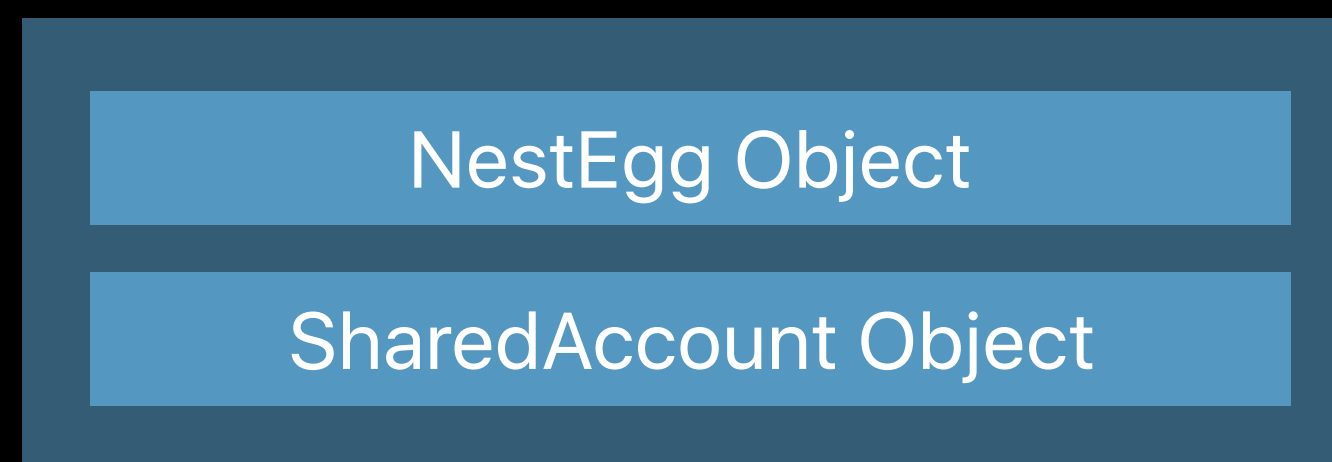
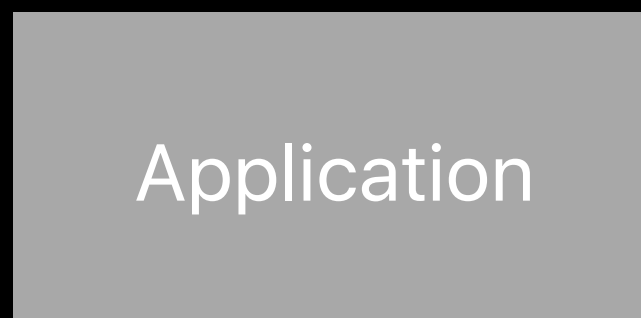
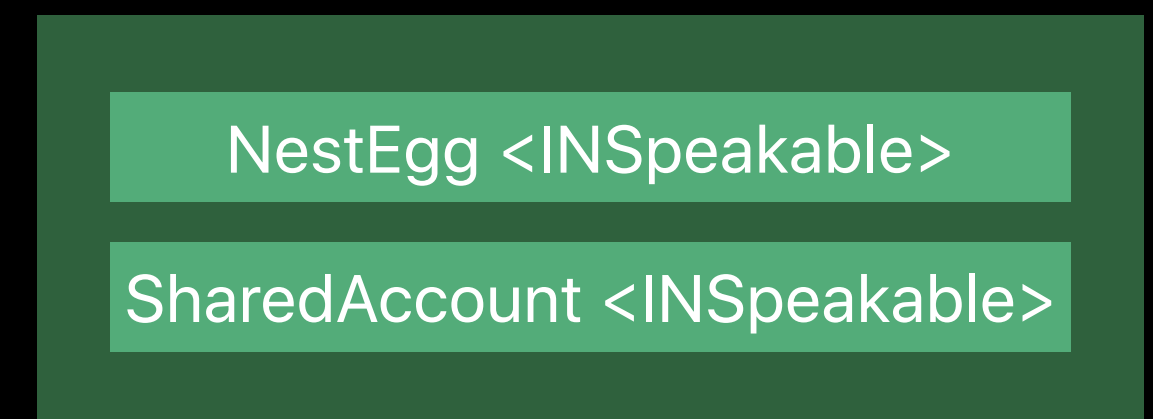
NestEgg Object

SharedAccount Object

Custom Vocabulary

INVocabulary

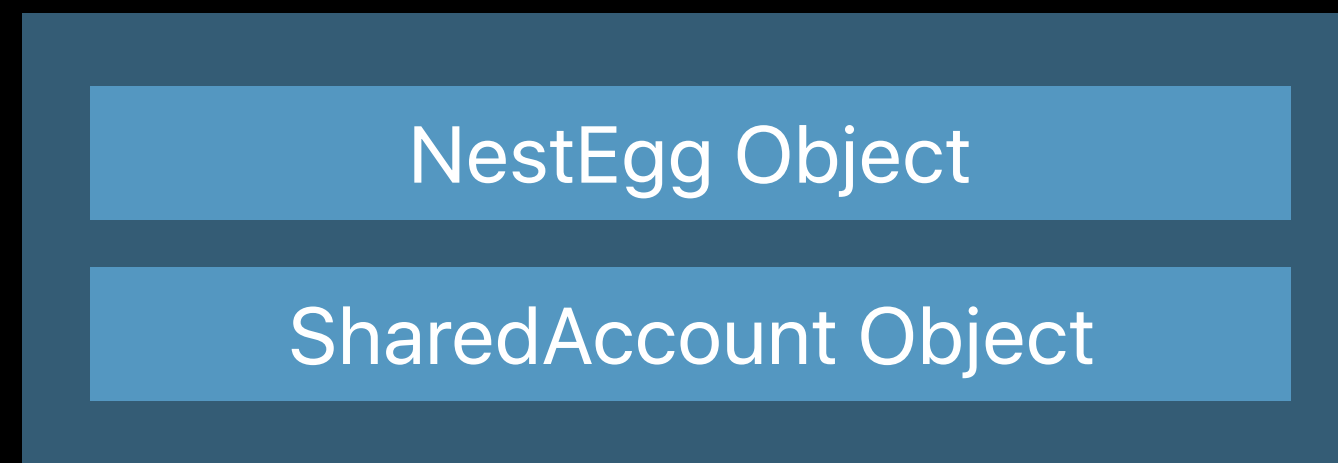
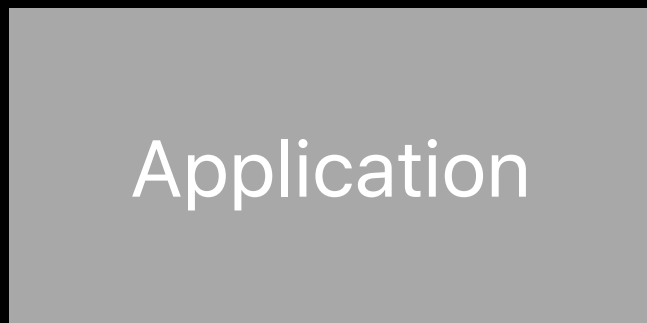
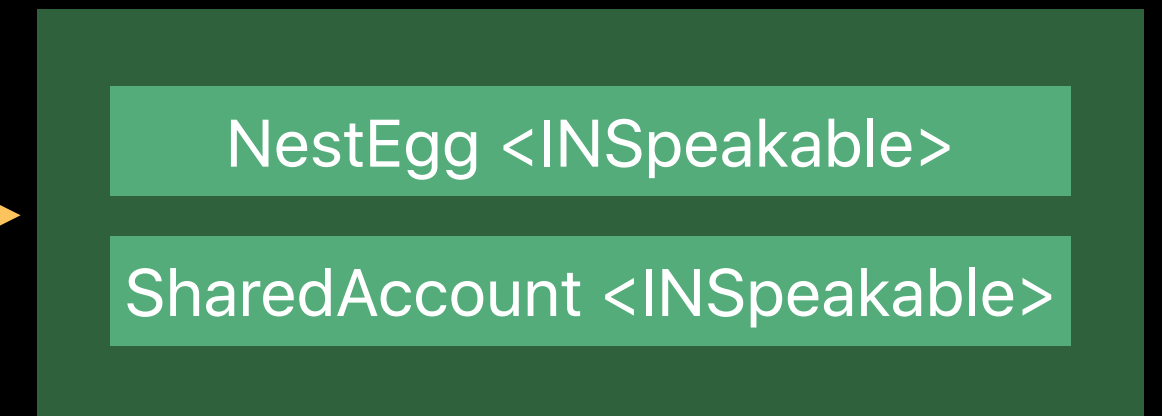
"Show my nest egg balance"



Custom Vocabulary

INVocabulary

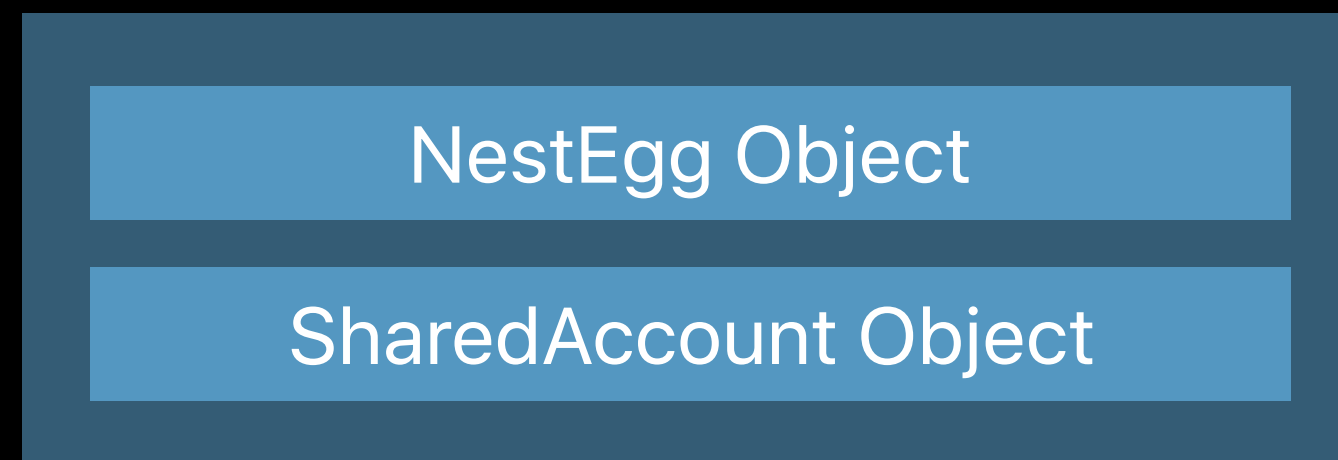
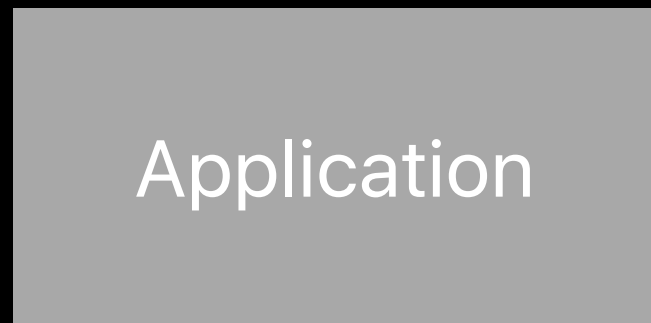
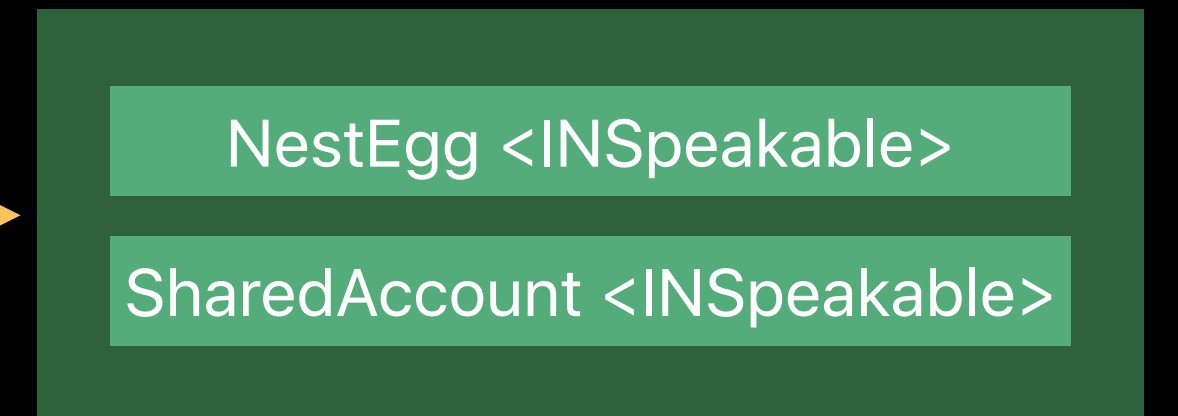
"Show my nest egg balance"



Custom Vocabulary

IN Vocabulary

"Show my **NestEgg** balance"



Custom Vocabulary

INVocabulary

"Show my NestEgg balance"



Siri

NestEgg <INSpeakable>
SharedAccount <INSpeakable>

Application



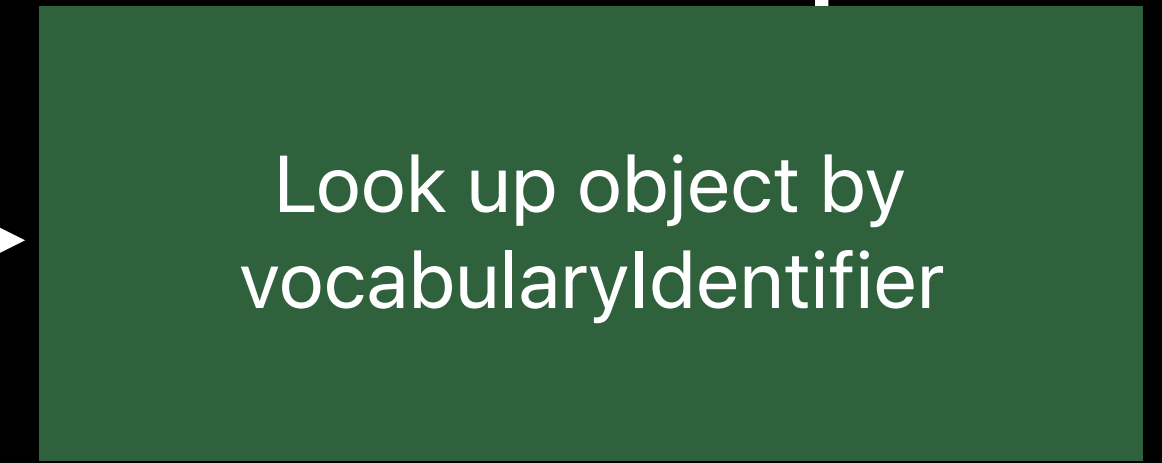
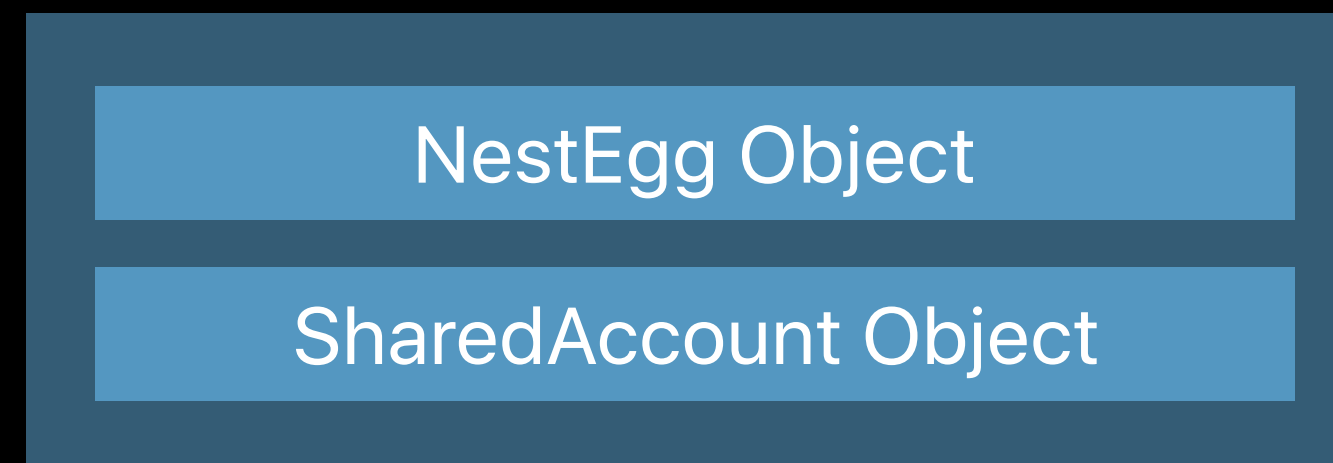
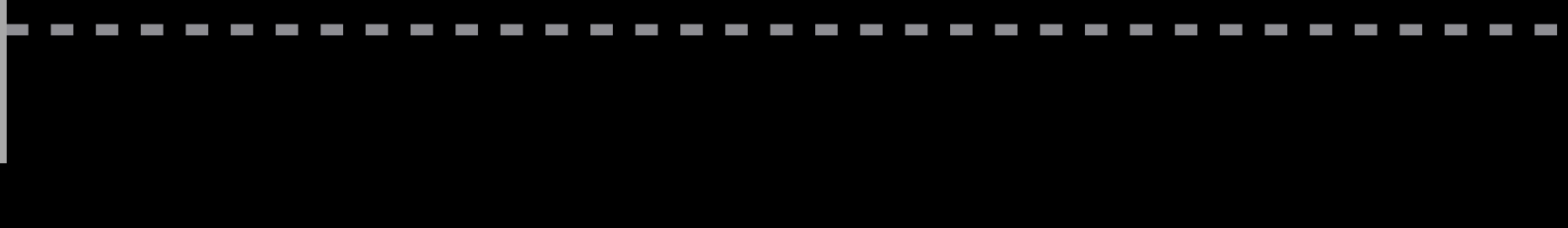
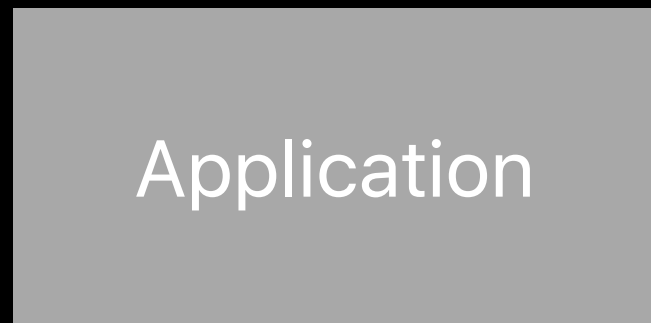
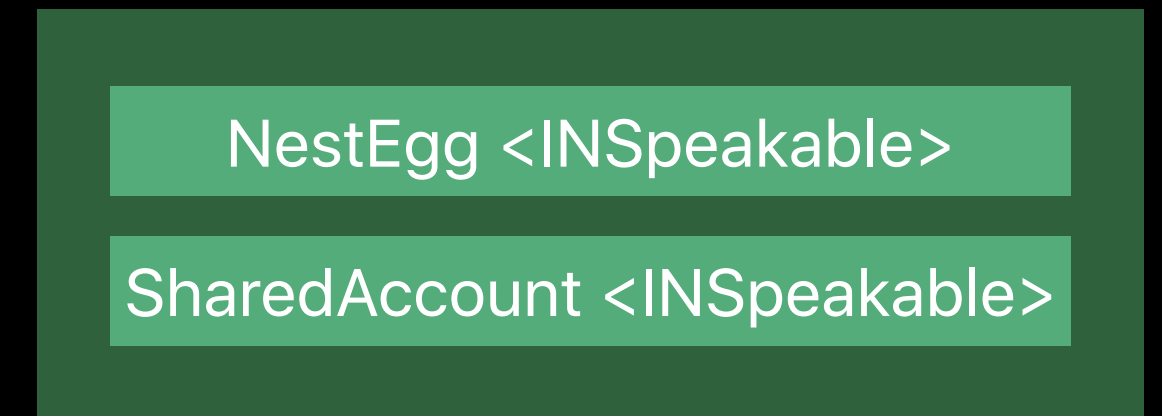
Application Extension

NestEgg Object
SharedAccount Object

Custom Vocabulary

INVocabulary

"Show my NestEgg balance"





9:41 AM

100%

Check balance in my
NestEgg on UnicornPay

Here you go:



UNICORNPAY

Unicorn Bank

Account Number XXXX1234

Account NestEgg

Balance \$42.42



Custom Vocabulary

App global

Custom Vocabulary

App global

Help Siri understand words unique to your app

Custom Vocabulary

App global

Help Siri understand words unique to your app

Common to all of your users

Custom Vocabulary

App global

Help Siri understand words unique to your app

Common to all of your users

- Ride name, workout names

Custom Vocabulary

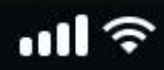
App global

Help Siri understand words unique to your app

Common to all of your users

- Ride name, workout names

Use `AppIntentVocabulary.plist`



9:41 AM



Book a car on UnicornRides

**What type of ride do
you want?**

SparkleCar

RainbowCar





9:41 AM



Book a sparkle car on
UnicornRides

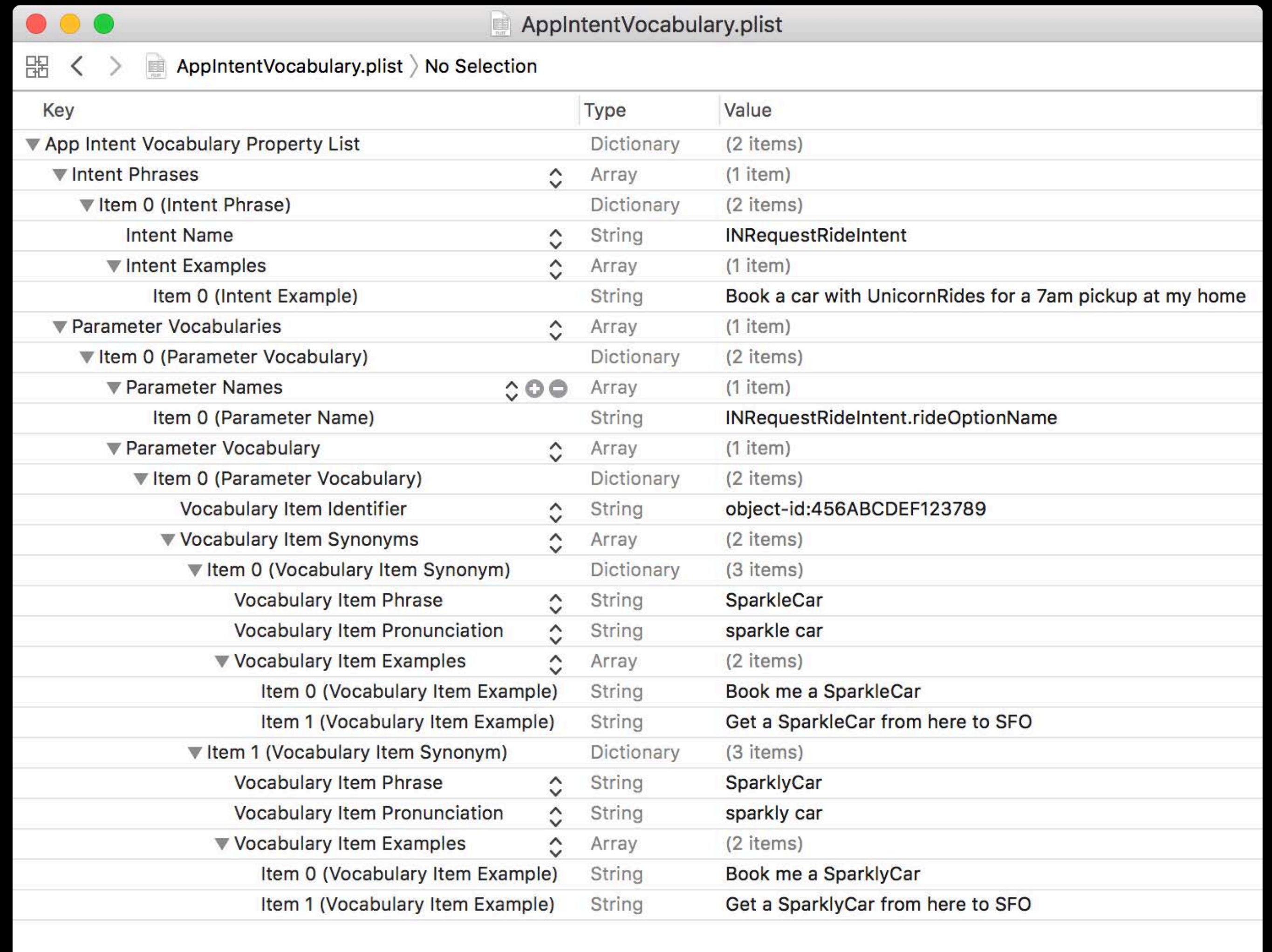
Sorry, I can't do that.

Open the UnicornRides app



Custom Vocabulary

App global



Key	Type	Value
▼ App Intent Vocabulary Property List	Dictionary	(2 items)
▼ Intent Phrases	Array	(1 item)
▼ Item 0 (Intent Phrase)	Dictionary	(2 items)
Intent Name	String	INRequestRideIntent
▼ Intent Examples	Array	(1 item)
Item 0 (Intent Example)	String	Book a car with UnicornRides for a 7am pickup at my home
▼ Parameter Vocabulary	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
▼ Parameter Names	Array	(1 item)
Item 0 (Parameter Name)	String	INRequestRideIntent.rideOptionName
▼ Parameter Vocabulary	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
Vocabulary Item Identifier	String	object-id:456ABCDEF123789
▼ Vocabulary Item Synonyms	Array	(2 items)
▼ Item 0 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparkleCar
Vocabulary Item Pronunciation	String	sparkle car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparkleCar
Item 1 (Vocabulary Item Example)	String	Get a SparkleCar from here to SFO
▼ Item 1 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparklyCar
Vocabulary Item Pronunciation	String	sparkly car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparklyCar
Item 1 (Vocabulary Item Example)	String	Get a SparklyCar from here to SFO

Custom Vocabulary

App global

INSpeakable

Key	Type	Value
▼ App Intent Vocabulary Property List	Dictionary	(2 items)
▼ Intent Phrases	Array	(1 item)
▼ Item 0 (Intent Phrase)	Dictionary	(2 items)
Intent Name	String	INRequestRideIntent
▼ Intent Examples	Array	(1 item)
Item 0 (Intent Example)	String	Book a car with UnicornRides for a 7am pickup at my home
▼ Parameter Vocabularies	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
▼ Parameter Names	Array	(1 item)
Item 0 (Parameter Name)	String	INRequestRideIntent.rideOptionName
▼ Parameter Vocabulary	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
Vocabulary Item Identifier	String	object-id:456ABCDEF123789
▼ Vocabulary Item Synonyms	Array	(2 items)
▼ Item 0 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparkleCar
Vocabulary Item Pronunciation	String	sparkle car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparkleCar
Item 1 (Vocabulary Item Example)	String	Get a SparkleCar from here to SFO
▼ Item 1 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparklyCar
Vocabulary Item Pronunciation	String	sparkly car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparklyCar
Item 1 (Vocabulary Item Example)	String	Get a SparklyCar from here to SFO

Custom Vocabulary

App global

INSpeakable

vocabularyIdentifier

Key	Type	Value
▼ App Intent Vocabulary Property List	Dictionary	(2 items)
▼ Intent Phrases	Array	(1 item)
▼ Item 0 (Intent Phrase)	Dictionary	(2 items)
Intent Name	String	INRequestRideIntent
▼ Intent Examples	Array	(1 item)
Item 0 (Intent Example)	String	Book a car with UnicornRides for a 7am pickup at my home
▼ Parameter Vocabularies	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
▼ Parameter Names	Array	(1 item)
Item 0 (Parameter Name)	String	INRequestRideIntent.rideOptionName
▼ Parameter Vocabulary	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
Vocabulary Item Identifier	String	object-id:456ABCDEF123789
▼ Vocabulary Item Synonyms	Array	(2 items)
▼ Item 0 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparkleCar
Vocabulary Item Pronunciation	String	sparkle car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparkleCar
Item 1 (Vocabulary Item Example)	String	Get a SparkleCar from here to SFO
▼ Item 1 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparklyCar
Vocabulary Item Pronunciation	String	sparkly car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparklyCar
Item 1 (Vocabulary Item Example)	String	Get a SparklyCar from here to SFO

Custom Vocabulary

App global

INSpeakable

vocabularyIdentifier

spokenPhrase

Key	Type	Value
▼ App Intent Vocabulary Property List	Dictionary	(2 items)
▼ Intent Phrases	Array	(1 item)
▼ Item 0 (Intent Phrase)	Dictionary	(2 items)
Intent Name	String	INRequestRideIntent
▼ Intent Examples	Array	(1 item)
Item 0 (Intent Example)	String	Book a car with UnicornRides for a 7am pickup at my home
▼ Parameter Vocabularies	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
▼ Parameter Names	Array	(1 item)
Item 0 (Parameter Name)	String	INRequestRideIntent.rideOptionName
▼ Parameter Vocabulary	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
Vocabulary Item Identifier	String	object-id:456ABCDEF123789
▼ Vocabulary Item Synonyms	Array	(2 items)
▼ Item 0 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparkleCar
Vocabulary Item Pronunciation	String	sparkle car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparkleCar
Item 1 (Vocabulary Item Example)	String	Get a SparkleCar from here to SFO
▼ Item 1 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparklyCar
Vocabulary Item Pronunciation	String	sparkly car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparklyCar
Item 1 (Vocabulary Item Example)	String	Get a SparklyCar from here to SFO

Custom Vocabulary

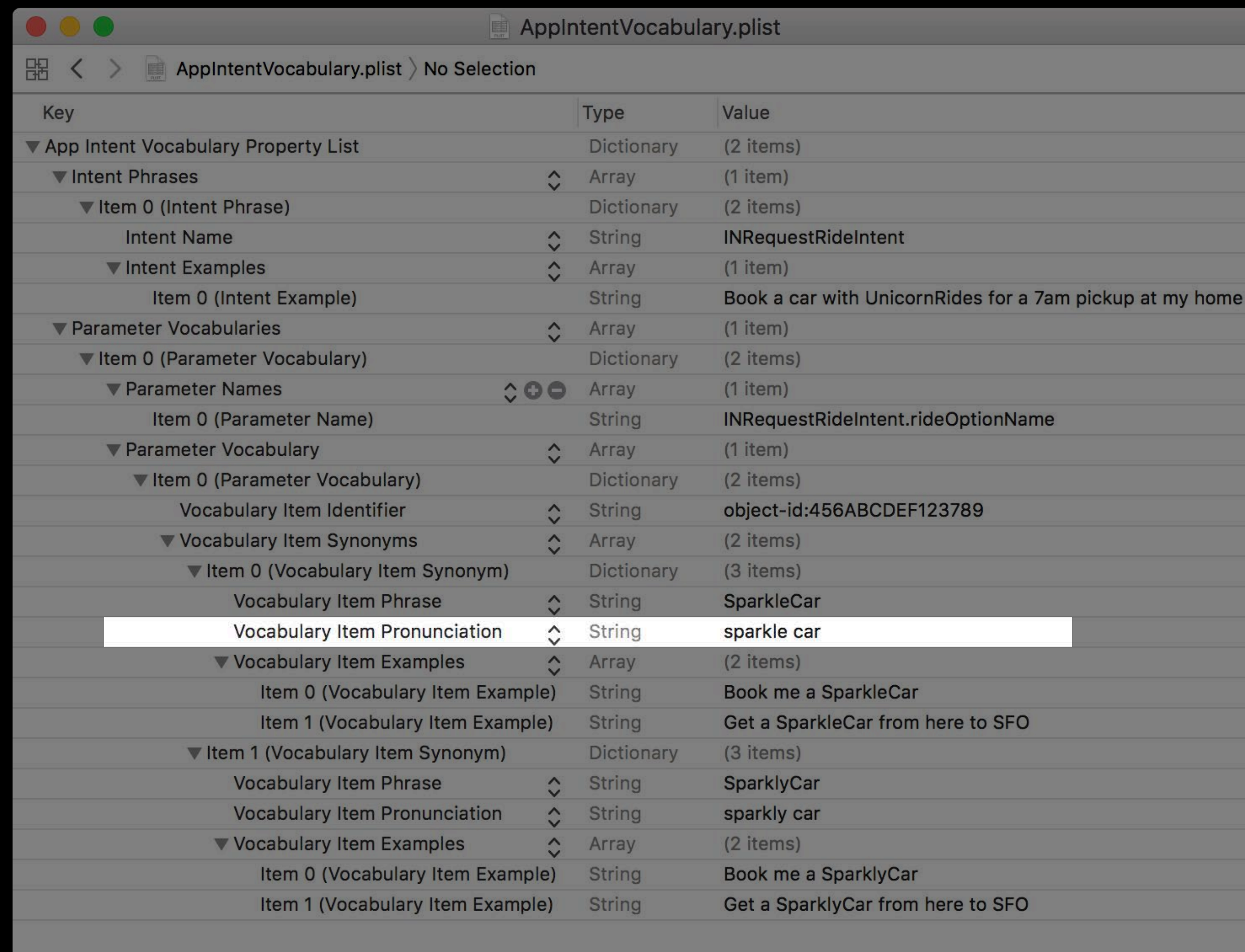
App global

INSpeakable

vocabularyIdentifier

spokenPhrase

pronunciationHint



The screenshot shows a plist file named 'AppIntentVocabulary.plist' with the following structure:

Key	Type	Value
▼ App Intent Vocabulary Property List	Dictionary	(2 items)
▼ Intent Phrases	Array	(1 item)
▼ Item 0 (Intent Phrase)	Dictionary	(2 items)
Intent Name	String	INRequestRideIntent
▼ Intent Examples	Array	(1 item)
Item 0 (Intent Example)	String	Book a car with UnicornRides for a 7am pickup at my home
▼ Parameter Vocabularies	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
▼ Parameter Names	Array	(1 item)
Item 0 (Parameter Name)	String	INRequestRideIntent.rideOptionName
▼ Parameter Vocabulary	Array	(1 item)
▼ Item 0 (Parameter Vocabulary)	Dictionary	(2 items)
Vocabulary Item Identifier	String	object-id:456ABCDEF123789
▼ Vocabulary Item Synonyms	Array	(2 items)
▼ Item 0 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparkleCar
Vocabulary Item Pronunciation	String	sparkle car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparkleCar
Item 1 (Vocabulary Item Example)	String	Get a SparkleCar from here to SFO
▼ Item 1 (Vocabulary Item Synonym)	Dictionary	(3 items)
Vocabulary Item Phrase	String	SparklyCar
Vocabulary Item Pronunciation	String	sparkly car
▼ Vocabulary Item Examples	Array	(2 items)
Item 0 (Vocabulary Item Example)	String	Book me a SparklyCar
Item 1 (Vocabulary Item Example)	String	Get a SparklyCar from here to SFO



9:41 AM

100%

Book a SparkleCar on UnicornRides

UnicornRides can get you a SparkleCar in 5 minutes. Do you want to request it?



UNICORNRIDES

Get a Ride



Type SparkleCar

From 1000 Stockton St >

Cancel

Request



UI Testing

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Inside your project in Xcode

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Siri in simulator lets you test on multiple devices

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Siri in simulator lets you test on multiple devices

Automate your tests to check and maintain quality

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UI Testing in Xcode

WWDC 2015

Continuous Integration and Code Coverage in Xcode 7

WWDC 2015

```
let siriService = XCUIDevice.shared.siriService
```



NEW

```
let siriService = XCUIDevice.shared.siriService
siriService.activate(voiceRecognitionText: "Unlock my car")
```



NEW

Demo

Summary

Summary

Contact resolution

Summary

Contact resolution

Security

Summary

Contact resolution

Security

Custom vocabulary

Summary

Contact resolution

Security

Custom vocabulary

UI testing

More Information

<https://developer.apple.com/wwdc17/228>

Related Sessions

What's New in ApplePay and Wallet

Executive Ballroom

Thursday 5:10PM

Enabling Your App for CarPlay

WWDC 2017 Video

Introducing SiriKit

WWDC 2016

Extending your apps with SiriKit

WWDC 2016

Continuous Integration and Code Coverage in Xcode 7

WWDC 2015

UI Testing in Xcode

WWDC 2015

Keychain and Authentication with Touch ID

WWDC 2014

Labs

SiriKit Lab

Technology Lab C

Fri 9:00AM–12:00PM

