

Framework

# Intents

Empower people to customize interactions for your app on their device.

iOS 10.0+ | iPadOS 10.0+ | Mac Catalyst 13.0+ | macOS 12.0+ | tvOS 14.0+ | visionOS 1.0+ | watchOS 3.2+

## Overview

Use intents to enable people to interact with your app across Siri, Shortcuts, and widgets. Define custom intents for specific actions that someone can trigger with Siri or Shortcuts, and donate intents to help Siri learn someone's habits and suggest relevant shortcuts over time. You can also provide shortcut suggestions that appear in the Shortcuts app or in Siri's recommendations to help boost discoverability.

### Note

Intents is a [SiriKit](#) framework.

## Topics

### Intents

#### Dispatching intents to handlers

Provide SiriKit with an intent handler capable of handling a specific intent.

#### Resolving and Handling Intents

Resolve, confirm, and handle user requests for your app's services.

#### `class INIntent`

A request to fulfill in your app or Intents extension.

## class INIntentResponse

Your response to an intent object.

### ☰ Intent Handling Infrastructure

Specify required permissions and provide handlers for the intents your app supports, and configure app extensions.

### { } Providing Hands-Free App Control with Intents

Resolve, confirm, and handle intents without an extension.

### ☰ Resolution Results

Resolve common types of data like strings and dates into specific values that your app recognizes.

### ☰ Common Data Types

Manage common data types such as strings, dates, currencies, images, and contacts.

## Standard Intents

SiriKit groups intents into domains based on the type of app that's likely to support them.

### ☰ Car Commands

Manage vehicle door locks and get the vehicle's status.

### ☰ Lists and Notes

Create and manage notes and to-do list items.

### ☰ Media

Listen and control audio through Siri Intents, or listen and watch media content from your app with shortcuts.

### ☰ Messaging

Send messages and search the user's received messages.

### ☰ Payments

Send payments between users or pay bills.

### ☰ Restaurant Reservations

Create and manage restaurant reservations with help from the Maps app.

### ☰ Ride Booking

Book rides and report their status.

### ☰ VoIP Calling

Initiate calls and search the user's call history.

### ☰ Workouts

Start, end, and manage fitness routines.

### ☰ Intent Class Identifiers

Identify intents that user notifications specify.

## Shortcuts and Donations

### 📄 Offering Actions in the Shortcuts App

Suggest shortcuts users may want to add to Siri or combine with other actions in their own shortcuts.

### 📄 Adding User Interactivity with Siri Shortcuts and the Shortcuts App

Add custom intents and parameters to help users interact more quickly and effectively with Siri and the Shortcuts app.

### 📄 Donating Shortcuts

Tell Siri about shortcuts to actions that the user performed in your app.

### 📄 Deleting Donated Shortcuts

Remove your donations from Siri.

### {Soup Chef: Accelerating App Interactions with Shortcuts}

Make it easy for people to use Siri with your app by providing shortcuts to your app's actions.

### {Soup Chef with App Intents: Migrating custom intents}

Integrating App Intents to provide your app's actions to Siri and Shortcuts.

### {Adding Shortcuts for Wind Down}

Reveal your app's shortcuts inside the Health app.

### class INShortcutReference

An object representing an action available in your app that the system may suggest to a user or a user may add to Siri.

### class INInteraction

An interaction between the user and your app involving an intent object.

### enum INShortcut

An action available in your app that the system may suggest to a user or a user may add to Siri.

## class `INVoiceShortcutCenter`

Retrieve the user's shortcuts and make shortcut suggestions.

## class `INVoiceShortcut`

A shortcut the user added to Siri.

## struct `INShortcutAvailabilityOptions`

Defined contexts in which an intent or activity might be relevant to a user.

## class `INShortcutReference`

An object representing an action available in your app that the system may suggest to a user or a user may add to Siri.

## class `INIntentDonationMetadata`

### ☰ Apple Watch support

Display relevant shortcuts on the Siri watch face.

### ☰ Siri Event Suggestions

Provide users with current, actionable information connected to a reservation.

## Vocabulary

### ☰ Registering Custom Vocabulary with SiriKit

Register your app's custom terminology, and provide sample phrases for how to use your app with Siri.

## class `INVocabulary`

An object for registering user-specific vocabulary that Siri requests might include.

## Deprecated Symbols

### ☰ Deprecated Symbols

Review unsupported symbols and their replacements.

## Macros

### ☰ Macros

## Classes

```
class INParameter
```

A parameter of an interaction object.

## Protocols

```
protocol INIntentSetImageKeyPath
```

---

## See Also

### Frameworks

 IntentsUI

Customize content in the interface for Siri and Maps.