API Collection

Speech Recognition in Objective-C

Use these classes to perform speech recognition in Objective-C code.

Topics

Essentials

📄 **Asking Permission to Use Speech Recognition**

Ask the user's permission to perform speech recognition using Apple's servers.

class **SFSpeechRecognizer**

An object you use to check for the availability of the speech recognition service, and to initiate the speech recognition process.

protocol **SFSpeechRecognizerDelegate**

A protocol that you adopt in your objects to track the availability of a speech recognizer.

enum **SFSpeechRecognitionTaskHint**

The type of task for which you are using speech recognition.

enum **SFSpeechRecognizerAuthorizationStatus**

The app's authorization to perform speech recognition.

Audio sources

{} **Recognizing speech in live audio**

Perform speech recognition on audio coming from the microphone of an iOS device.

class **SFSpeechURLRecognitionRequest**

A request to recognize speech in a recorded audio file.

`class SFSpeechAudioBufferRecognitionRequest`

A request to recognize speech from captured audio content, such as audio from the device's microphone.

`class SFSpeechRecognitionRequest`

An abstract class that represents a request to recognize speech from an audio source.

In-progress requests

`class SFSpeechRecognitionTask`

A task object for monitoring the speech recognition progress.

`protocol SFSpeechRecognitionTaskDelegate`

A protocol with methods for managing multi-utterance speech recognition requests.

`enum SFSpeechRecognitionTaskState`

The state of the task associated with the recognition request.

Transcription results

`class SFSpeechRecognitionResult`

An object that contains the partial or final results of a speech recognition request.

`class SFSpeechRecognitionMetadata`

The metadata of speech in the audio of a speech recognition request.

`class SFTranscription`

A textual representation of the specified speech in its entirety, as recognized by the speech recognizer.

`class SFTranscriptionSegment`

A discrete part of an entire transcription, as identified by the speech recognizer.

Voice analytics

`class SFVoiceAnalytics`

A collection of vocal analysis metrics.

`class SFAcousticFeature`

The value of a voice analysis metric.

Errors

```
let SFSpeechErrorDomain: String
```

```
struct SFSpeechError
```

```
enum Code
```
Error codes that can be thrown under the Speech framework's error domain.