

[Translation](#) / [TranslationSession](#) / `translate(_:)`

Instance Method

translate(_:)

Translates a single string of text.

iOS 18.0+ | iPadOS 18.0+ | Mac Catalyst 26.0+ | macOS 15.0+

```
func translate(_ string: String) async throws -> TranslationSession.Response
```

Parameters

string

The string of text to translate.

Return Value

The response containing the text translation.

Discussion

This function translates a single line of text and might display different UI depending on the state of the translation. The required languages for translation don't have to be installed before calling this method.

If the required languages for translation have already downloaded and the source language is clear, this function returns results without showing any UI to the person.

If the source or target language aren't installed, the framework asks the person for permission to download the languages. During the download a progress indicator displays. After it completes, the framework performs the translation.

If the `sourceLanguage` is `nil` and the framework can't detect the source language from the content, the framework prompts the person to choose the source language.

This function throws an `Error` if:

- The person doesn't agree to downloading the languages
- The person dismisses the progress view during language downloads
- `TranslationSession` fails system validation
- The session doesn't allow requesting downloads and languages aren't installed
- You already cancelled the session
- Something goes wrong during translation

If a person dismisses the progress view while the languages download, the system throws a `userCancelled` error, and the languages continue to download in the background.

Note

This function call can take several minutes while languages download.

See Also

Translating the text

```
func translate(batch: [TranslationSession.Request]) -> TranslationSession.BatchResponse
```

Translates multiple strings of text of the same language, returning a sequence of responses as they're available.

```
func translations(from: [TranslationSession.Request]) async throws -> [TranslationSession.Response]
```

Translates multiple strings of text of the same language, returning the results all at once when complete.

```
struct Request
```

A translation request containing a single item of text to translate.

```
struct Response
```

The response to a translation request.

```
struct BatchResponse
```

A type that provides asynchronous access to translation responses.