Foundation Models / Transcript

Structure

Transcript

A linear history of entries that reflect an interaction with a session.

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+ | macOS 26.0+ | visionOS 26.0+

```
struct Transcript
```

Mentioned in

Generating content and performing tasks with Foundation Models

Overview

Use a `Transcript` to visualize previous instructions, prompts and model responses. If you use tool calling, a `Transcript` includes a history of tool calls and their results.

```
struct HistoryView: View {
    let session: LanguageModelSession

    var body: some View {
        ScrollView {
            ForEach(session.transcript) { entry in
                switch entry {
                case let .instructions(instructions):
                    MyInstructionsView(instructions)
                case let .prompt(prompt)
                    MyPromptView(prompt)
                case let .toolCalls(toolCalls):
                    MyToolCallsView(toolCalls)
                case let .toolOutput(toolOutput):
                    MyToolOutputView(toolOutput)
                case let .response(response):
                    MyResponseView(response)
                }
            }
        }
    }
}
```

When you create a new `LanguageModelSession` it doesn’t contain the state of a previous session. You can initialize a new session with a list of entries you get from a session `transcript`:

```
// Create a new session with the first and last entries from a previous session.
func newContextualSession(with originalSession: LanguageModelSession) -> LanguageMod
    let allEntries = originalSession.transcript

    // Collect the entries to keep from the original session.
    let entries = [allEntries.first, allEntries.last].compactMap { $0 }
    let transcript = Transcript(entries: entries)

    // Create a new session with the result and preload the session resources.
    var session = LanguageModelSession(transcript: transcript)
    session.prewarm()
    return session
}
```

Topics

Creating a transcript

`init(entries: some Sequence<Transcript.Entry>)`

Creates a transcript.

`enum Entry`

An entry in a transcript.

`enum Segment`

The types of segments that may be included in a transcript entry.

Getting the transcript types

`struct Instructions`

Instructions you provide to the model that define its behavior.

`struct Prompt`

A prompt from the user to the model.

`struct Response`

A response from the model.

`struct ResponseFormat`

Specifies a response format that the model must conform its output to.

`struct StructuredSegment`

A segment containing structured content.

`struct TextSegment`

A segment containing text.

`struct ToolCall`

A tool call generated by the model containing the name of a tool and arguments to pass to it.

`struct ToolCalls`

A collection tool calls generated by the model.

`struct ToolDefinition`

A definition of a tool.

`struct ToolOutput`

A tool output provided back to the model.

Relationships

Conforms To

`BidirectionalCollection`
`Collection`

```
Copyable
Decodable
Encodable
Equatable
RandomAccessCollection
Sendable
SendableMetatype
Sequence
```

See Also

Prompting

`class LanguageModelSession`

An object that represents a session that interacts with a language model.

`struct Instructions`

Details you provide that define the model’s intended behavior on prompts.

`struct Prompt`

A prompt from a person to the model.

`struct GenerationOptions`

Options that control how the model generates its response to a prompt.