

[Foundation Models](#) / [SystemLanguageModel](#) / SystemLanguageModel.Adapter

Structure


SystemLanguageModel.Adapter

Specializes the system language model for custom use cases.

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

```
struct Adapter
```

Mentioned in

 [Loading and using a custom adapter with Foundation Models](#)

Overview

Use the base system model for most prompt engineering, guided generation, and tools. If you need to specialize the model, train a custom `Adapter` to alter the system model weights and optimize it for your custom task. Use custom adapters only if you're comfortable training foundation models in Python.


Important

Be sure to re-train the adapter for every new version of the base system model that Apple releases. Adapters consume a large amount of storage space and isn't recommended for most apps.

For more on custom adapters, see [Get started with Foundation Models adapter training](#).

Topics

Creating an adapter

 Loading and using a custom adapter with Foundation Models

Specialize the behavior of the system language model by using a custom adapter you train.

```
com.apple.developer.foundation-model-adapter
```

A Boolean value that indicates whether the app can enable custom adapters for the Foundation Models framework.

```
init(fileURL: URL) throws
```

Creates an adapter from the file URL.

```
init(name: String) throws
```

Creates an adapter downloaded from the background assets framework.

Prepare the adapter

```
func compile() async throws
```

Prepares an adapter before being used with a [LanguageModelSession](#). You should call this if your adapter has a draft model.

Getting the metadata

```
var creatorDefinedMetadata: [String : Any]
```

Values read from the creator defined field of the adapter's metadata.

Removing obsolete adapters

```
static func removeObsoleteAdapters() throws
```

Remove all obsolete adapters that are no longer compatible with current system models.

Checking compatibility

```
static func compatibleAdapterIdentifiers(name: String) -> [String]
```

Get all compatible adapter identifiers compatible with current system models.

```
static func isCompatible(AssetPack) -> Bool
```

Returns a Boolean value that indicates whether an asset pack is an on-device foundation model adapter and is compatible with the system base model version on the runtime device.

Getting the asset error

```
enum AssetError
```

See Also

Loading the model with an adapter



Loading and using a custom adapter with Foundation Models

Specialize the behavior of the system language model by using a custom adapter you train.

```
com.apple.developer.foundation-model-adapter
```

A Boolean value that indicates whether the app can enable custom adapters for the Foundation Models framework.

```
convenience init(adapter: SystemLanguageModel.Adapter, guardrails: SystemLanguageModel.Guardrails)
```

Creates the base version of the model with an adapter.