

[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
```

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## 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.