

[Speech](#) / SFCustomLanguageModelData

Class

SFCustomLanguageModelData

An object that generates and exports custom language model training data.

iOS 17.0+ | iPadOS 17.0+ | Mac Catalyst 17.0+ | macOS 14.0+ | visionOS 1.1+

```
class SFCustomLanguageModelData
```

Topics

Creating a model data container

```
convenience init(locale: Locale, identifier: String, version: String,  
builder: () -> any DataInsertable)
```

Constructs a data container using a builder

```
init(locale: Locale, identifier: String, version: String)
```

Constructs an empty data container.

```
struct DataInsertableBuilder
```

A custom parameter attribute that constructs custom language model data from closures.

Adding terms

```
func insert(term: SFCustomLanguageModelData.CustomPronunciation)
```

Add a custom term to the vocabulary.

```
static func supportedPhonemes(locale: Locale) -> [String]
```

List the supported subset of X-SAMPA pronunciations supported by this locale for the Speech framework.

`struct CustomPronunciation`

A term to be introduced into the speech recognition model's vocabulary.

Adding phrases

`func insert(phraseCount: SFCustomLanguageModelData.PhraseCount)`

Add a sample to the body of training data.

`struct PhraseCount`

A phrase used to bias the language model, along with a weight influencing the relative strength of the bias.

Adding parameterized sample data within a result builder

`struct PhraseCountsFromTemplates`

A type that can be used to construct custom language model data by specifying a set of template classes and using the result builder DSL to specify templates.

`struct TemplateInsertableBuilder`

A custom parameter attribute that constructs custom language model data from closures.

Adding parameterized sample data with a generator

`func insert(phraseCountGenerator: SFCustomLanguageModelData.PhraseCountGenerator)`

Add a stream of samples to the body of training data.

`class TemplatePhraseCountGenerator`

A `PhraseCountGenerator` that produces `PhraseCount` values based on templates.

`class PhraseCountGenerator`

Abstract base class defining the interface for classes that generate `PhraseCount` via an iterator.

Exporting model data

`func export(to: URL) async throws`

Export the accumulated data to a file.

Inspecting model data

```
let identifier: String
```

```
let locale: Locale
```

```
let version: String
```

Result builder support

```
struct CompoundTemplate
```

A class supporting the custom language model training data result builder. You are not intended to use this directly.

```
protocol DataInsertable
```

A protocol supporting the custom language model training data result builder.

```
protocol TemplateInsertable
```

A protocol supporting the custom language model training data result builder.

Relationships

Conforms To

Decodable

Encodable

Equatable

Hashable

See Also

Custom vocabulary

```
class AnalysisContext
```

Contextual information that may be shared among analyzers.

`class SFSpeechLanguageModel`

A language model built from custom training data.

`class Configuration`

An object describing the location of a custom language model and specialized vocabulary.