

[Foundation Models](#) / GenerationSchema

Structure

GenerationSchema

A type that describes the properties of an object and any guides on their values.

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

```
struct GenerationSchema
```

Mentioned in

 Generating Swift data structures with guided generation

Overview

Generation schemas guide the output of a `SystemLanguageModel` to deterministically ensure the output is in the desired format.

Topics

Creating a generation schema

```
init(root: DynamicGenerationSchema, dependencies: [DynamicGenerationSchema]) throws
```

Creates a schema by providing an array of dynamic schemas.

```
init(type:description:anyOf:)
```

Creates a schema for a string enumeration.

```
init(type: any Generable.Type, description: String?, properties: [GenerationSchema.Property])
```

Creates a schema by providing an array of properties.

```
struct Property
```

A property that belongs to a generation schema.

Getting the debug description

```
var debugDescription: String
```

A string representation of the debug description.

Getting the generation schema error types

```
enum SchemaError
```

A error that occurs when there is a problem creating a generation schema.

Relationships

Conforms To

CustomDebugStringConvertible

Decodable

Encodable

Sendable

SendableMetatype

See Also

Getting the schema

```
static var generationSchema: GenerationSchema
```

An instance of the generation schema.

Required