

[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.

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# Relationships

## Conforms To

CustomDebugStringConvertible

Decodable

Encodable

Sendable

SendableMetatype

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## See Also

## Getting the schema

```
static var generationSchema: GenerationSchema
```

An instance of the generation schema.

