

Namespace AnthropicClient

Classes

[AnthropicApiClient](#)

Represents a client for interacting with the Anthropic API.

Interfaces

[IAnthropicApiClient](#)

Represents a client for interacting with the Anthropic API.

Class AnthropicApiClient

Namespace: [AnthropicClient](#)

Assembly: AnthropicClient.dll

Represents a client for interacting with the Anthropic API.

```
public class AnthropicApiClient : IAnthropicApiClient
```

Inheritance

[object](#) ← AnthropicApiClient

Implements

[IAnthropicApiClient](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

AnthropicApiClient(string, HttpClient)

Initializes a new instance of the [AnthropicApiClient](#) class.

```
public AnthropicApiClient(string apiKey, HttpClient httpClient)
```

Parameters

apiKey [string](#)

The API key to use for the client.

httpClient [HttpClient](#)

The HTTP client to use for the client.

Exceptions

[ArgumentNullException](#)

Thrown when the API key or HTTP client is null.

Methods

CreateMessageAsync(MessageRequest)

Creates a message asynchronously.

```
public Task<AnthropicResult<MessageResponse>> CreateMessageAsync(MessageRequest request)
```

Parameters

request [MessageRequest](#)

The message request to create.

Returns

[Task](#) <[AnthropicResult](#)<[MessageResponse](#)>>

A task that represents the asynchronous operation. The task result contains the response as an [AnthropicResult<T>](#).

CreateMessageAsync(StreamMessageRequest)

Creates a message asynchronously and streams the response.

```
public IAsyncEnumerable<AnthropicEvent> CreateMessageAsync(StreamMessageRequest request)
```

Parameters

request [StreamMessageRequest](#)

The message request to create.

Returns

[IAsyncEnumerable](#) <AnthropicEvent>

An asynchronous enumerable that yields the response event by event.

Interface IAnthropicApiClient

Namespace: [AnthropicClient](#)

Assembly: AnthropicClient.dll

Represents a client for interacting with the Anthropic API.

```
public interface IAnthropicApiClient
```

Methods

CreateMessageAsync(MessageRequest)

Creates a message asynchronously.

```
Task<AnthropicResult<MessageResponse>> CreateMessageAsync(MessageRequest request)
```

Parameters

request [MessageRequest](#)

The message request to create.

Returns

[Task](#) <[AnthropicResult](#)<[MessageResponse](#)>>

A task that represents the asynchronous operation. The task result contains the response as an [AnthropicResult<T>](#).

CreateMessageAsync(StreamMessageRequest)

Creates a message asynchronously and streams the response.

```
IAsyncEnumerable<AnthropicEvent> CreateMessageAsync(StreamMessageRequest request)
```

Parameters

request [StreamMessageRequest](#)

The message request to create.

Returns

[IAsyncEnumerable](#)<[AnthropicEvent](#)>

An asynchronous enumerable that yields the response event by event.

Namespace AnthropicClient.Models

Classes

[AnthropicError](#)

Represents an error response from the Anthropic API.

[AnthropicEvent](#)

Represents an event from the Anthropic API.

[AnthropicFunction](#)

Represents a function that can be provided as a tool.

[AnthropicHeaders](#)

Represents headers included in Anthropic API responses.

[AnthropicModels](#)

Provides constants for the Anthropic models.

[AnyToolChoice](#)

Represents the any tool choice mode.

[ApiError](#)

Represents an api_error response from the Anthropic API.

[AuthenticationError](#)

Represents an authentication_error response from the Anthropic API.

[AutoToolChoice](#)

Represents the auto tool choice mode.

[BaseMessageRequest](#)

Represents a message request.

[Content](#)

Represents part of the content of a message.

[ContentDelta](#)

Represents a content delta.

[ContentDeltaEventData](#)

Represents data for a content_block_delta event.

[ContentDeltaType](#)

Provides constants for content delta types.

[ContentStartEventData](#)

Represents data for a content_block_start event.

[ContentStopEventData](#)

Represents data for a content_block_stop event.

[ContentType](#)

Represents the content type.

[Error](#)

Represents an error.

[ErrorEventData](#)

Represents data for an error event.

[ErrorType](#)

Represents the error type.

[EventData](#)

Represents data for an event.

[EventType](#)

Provides constants for event types.

[FunctionParameterAttribute](#)

Attribute to describe a function parameter.

[FunctionPropertyAttribute](#)

Attribute to describe a property of a type that is used as a function parameter.

[ImageContent](#)

Represents image content that is part of a message.

[ImageSource](#)

Represents an image source.

[ImageType](#)

Represents the image type.

[InputProperty](#)

Represents an input property.

[InputSchema](#)

Represents an input schema.

[InvalidRequestError](#)

Represents an invalid_request error.

[JsonDelta](#)

Represents a JSON delta.

[Message](#)

Represents a message.

[MessageCompleteEventData](#)

Represents data for the message_complete event.

[MessageDelta](#)

Represents a message delta.

[MessageDeltaEventData](#)

Represents data for a message_delta event.

[MessageRequest](#)

Represents a message request.

[MessageResponse](#)

Represents a response.

[MessageRole](#)

Represents the message role.

[MessageStartEventData](#)

Represents data for a message_start event.

[MessageStopEventData](#)

Represents data for a message_stop event.

[NotFoundError](#)

Represents a not_found error.

[OverloadedError](#)

Represents an overloaded error.

[PermissionError](#)

Represents a permission error.

[PingEventData](#)

Represents data for a ping event.

[RateLimitError](#)

Represents a rate_limit error.

[SpecificToolChoice](#)

Represents the specific tool choice mode.

[StopReasonType](#)

Represents the stop reason type.

[StreamMessageRequest](#)

Represents a message request.

[TextContent](#)

Represents text content that is part of a message.

[TextDelta](#)

Represents a text delta.

[Tool](#)

Represents a tool that can be used.

[ToolCall](#)

Represents a tool call.

[ToolCallResult<T>](#)

Represents a tool call result.

[ToolChoice](#)

Represents a tool choice mode.

[ToolChoiceType](#)

Represents the tool choice type.

[ToolResultContent](#)

Represents tool result content that is part of a message.

[ToolUseContent](#)

Represents tool use content that is part of a message.

[Usage](#)

Represents the usage of a response.

Interfaces

[ITool](#)

Interface that a class can implement to be used to create a tool.

Class AnthropicError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an error response from the Anthropic API.

```
public class AnthropicError
```

Inheritance

[object](#) ← AnthropicError

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

AnthropicError(Error)

Initializes a new instance of the [AnthropicError](#) class.

```
public AnthropicError(Error error)
```

Parameters

error [Error](#)

The error as an [Error](#) object.

Properties

Error

The error object.

```
public Error Error { get; init; }
```

Property Value

[Error](#)

Type

The type of the error.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class AnthropicEvent

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an event from the Anthropic API.

```
public class AnthropicEvent
```

Inheritance

[object](#) ← AnthropicEvent

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

AnthropicEvent(string, EventData)

Initializes a new instance of the [AnthropicEvent](#) class.

```
public AnthropicEvent(string type, EventData data)
```

Parameters

type [string](#)

The type of the event.

data [EventData](#)

The data associated with the event.

Properties

Data

The data associated with the event.

```
public EventData Data { get; init; }
```

Property Value

[EventData](#)

Type

The type of the event.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class AnthropicFunction

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a function that can be provided as a tool.

```
public class AnthropicFunction
```

Inheritance

[object](#) ← AnthropicFunction

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

Instance

Gets the instance on which the method is invoked.

```
public object? Instance { get; }
```

Property Value

[object](#)

Method

Gets the method of the function.

```
public MethodInfo Method { get; }
```

Property Value

Class AnthropicHeaders

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents headers included in Anthropic API responses.

```
public class AnthropicHeaders
```

Inheritance

[object](#) ← AnthropicHeaders

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

AnthropicHeaders(HttpResponseHeaders)

Initializes a new instance of the [AnthropicHeaders](#) class.

```
public AnthropicHeaders(HttpResponseHeaders headers)
```

Parameters

headers [HttpResponseHeaders](#)

The HTTP response headers.

Properties

RateLimitRequestsLimit

Gets the rate limit requests limit.

```
public int RateLimitRequestsLimit { get; init; }
```

Property Value

[int ↗](#)

RateLimitRequestsRemaining

Gets the rate limit requests remaining.

```
public int RateLimitRequestsRemaining { get; init; }
```

Property Value

[int ↗](#)

RateLimitRequestsReset

Gets the time of the rate limit requests reset.

```
public DateTimeOffset RateLimitRequestsReset { get; init; }
```

Property Value

[DateTimeOffset ↗](#)

RateLimitTokensLimit

Gets the rate limit tokens limit.

```
public int RateLimitTokensLimit { get; init; }
```

Property Value

[int ↗](#)

RateLimitTokensRemaining

Gets the rate limit tokens remaining.

```
public int RateLimitTokensRemaining { get; init; }
```

Property Value

[int](#)

RateLimitTokensReset

Gets the time of the rate limit tokens reset.

```
public DateTimeOffset RateLimitTokensReset { get; init; }
```

Property Value

[DateTimeOffset](#)

RequestId

Gets the request ID.

```
public string RequestId { get; init; }
```

Property Value

[string](#)

RetryAfter

Gets the retry after value.

```
public int RetryAfter { get; init; }
```

Property Value

[int ↗](#)

Class AnthropicModels

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Provides constants for the Anthropic models.

```
public static class AnthropicModels
```

Inheritance

[object](#) ← AnthropicModels

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

Claude35Sonnet

The Claude-3.5 Sonnet model.

```
public const string Claude35Sonnet = "claude-3-5-sonnet-20240620"
```

Field Value

[string](#)

Claude3Haiku

The Claude-3 Haiku model.

```
public const string Claude3Haiku = "claude-3-haiku-20240307"
```

Field Value

[string](#)

Claude3Opus

The Claude-3 Opus model.

```
public const string Claude3Opus = "claude-3-opus-20240229"
```

Field Value

[string](#)

Claude3Sonnet

The Claude-3 Sonnet model.

```
public const string Claude3Sonnet = "claude-3-sonnet-20240229"
```

Field Value

[string](#)

Class AnyToolChoice

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the any tool choice mode.

```
public class AnyToolChoice : ToolChoice
```

Inheritance

[object](#) ← [ToolChoice](#) ← AnyToolChoice

Inherited Members

[ToolChoice.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

AnyToolChoice()

Initializes a new instance of the [AnyToolChoice](#) class.

```
public AnyToolChoice()
```

Class ApiError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an api_error response from the Anthropic API.

```
public class ApiError : Error
```

Inheritance

[object](#) ← [Error](#) ← ApiError

Inherited Members

[Error.Type](#) , [Error.Message](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ApiError(string)

Initializes a new instance of the [ApiError](#) class.

```
public ApiError(string message)
```

Parameters

message [string](#)

The error message.

Class AuthenticationError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an authentication_error response from the Anthropic API.

```
public class AuthenticationError : Error
```

Inheritance

[object](#) ← [Error](#) ← AuthenticationError

Inherited Members

[Error.Type](#) , [Error.Message](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

AuthenticationError(string)

Initializes a new instance of the [AuthenticationError](#) class.

```
public AuthenticationError(string message)
```

Parameters

message [string](#)

The error message.

Class AutoToolChoice

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the auto tool choice mode.

```
public class AutoToolChoice : ToolChoice
```

Inheritance

[object](#) ← [ToolChoice](#) ← AutoToolChoice

Inherited Members

[ToolChoice.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

AutoToolChoice()

Initializes a new instance of the [AutoToolChoice](#) class.

```
public AutoToolChoice()
```

Class BaseMessageRequest

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a message request.

```
public abstract class BaseMessageRequest
```

Inheritance

[object](#) ← BaseMessageRequest

Derived

[MessageRequest](#), [StreamMessageRequest](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

BaseMessageRequest(string, List<Message>, int, string?, Dictionary<string, object>?, decimal, int?, decimal?, ToolChoice?, List<Tool>?, bool)

Initializes a new instance of the [BaseMessageRequest](#) class.

```
protected BaseMessageRequest(string model, List<Message> messages, int maxTokens = 1024,  
    string? system = null, Dictionary<string, object>? metadata = null, decimal temperature =  
    0.0, int? topK = null, decimal? topP = null, ToolChoice? toolChoice = null, List<Tool>?  
    tools = null, bool stream = false)
```

Parameters

model [string](#)

The model ID to use for the request.

messages [List](#) <[Message](#)>

The messages to send to the model.

maxTokens [int](#)

The maximum number of tokens to generate.

system [string](#)

The system ID to use for the request.

metadata [Dictionary](#) <[string](#), [object](#)>

The metadata to include with the request.

temperature [decimal](#)

The temperature to use for the request.

topK [int](#)?

The top-K value to use for the request.

topP [decimal](#)?

The top-P value to use for the request.

toolChoice [ToolChoice](#)

The tool choice mode to use for the request.

tools [List](#) <[Tool](#)>

The tools to use for the request.

stream [bool](#)

A value indicating whether the message should be streamed.

Exceptions

[ArgumentException](#)

Thrown when the model ID is invalid.

[ArgumentNullException](#)

Thrown when the model or messages is null.

[ArgumentException](#)

Thrown when the messages contain no messages.

[ArgumentException](#)

Thrown when the max tokens is less than one.

[ArgumentException](#)

Thrown when the temperature is less than zero or greater than one.

Properties

MaxTokens

Gets the maximum number of tokens to generate.

```
[JsonPropertyName("max_tokens")]
public int MaxTokens { get; init; }
```

Property Value

[int](#)

Messages

Gets the messages to send to the model.

```
public List<Message> Messages { get; init; }
```

Property Value

[List](#)<[Message](#)>

Metadata

Gets the metadata to include with the request.

```
public Dictionary<string, object>? Metadata { get; init; }
```

Property Value

[Dictionary](#)<[string](#), [object](#)>

Model

Gets the model ID to use for the request.

```
public string Model { get; init; }
```

Property Value

[string](#)

StopSequences

Gets the prompt stop sequences.

```
[JsonPropertyName("stop_sequences")]
public List<string> StopSequences { get; init; }
```

Property Value

[List](#)<[string](#)>

Stream

Gets a value indicating whether the message should be streamed.

```
public bool Stream { get; init; }
```

Property Value

[bool](#)

System

Gets the system ID to use for the request.

```
public string? System { get; init; }
```

Property Value

[string](#)

Temperature

Gets the temperature to use for the request.

```
public decimal Temperature { get; init; }
```

Property Value

[decimal](#)

ToolChoice

Gets the tool choice mode to use for the request.

```
[JsonPropertyName("tool_choice")]
public ToolChoice? ToolChoice { get; init; }
```

Property Value

[ToolChoice](#)

Tools

Gets the tools to use for the request.

```
public List<Tool>? Tools { get; init; }
```

Property Value

[List](#)<[Tool](#)>

TopK

Gets the top-K value to use for the request.

```
public int? TopK { get; init; }
```

Property Value

[int](#)?

TopP

Gets the top-P value to use for the request.

```
public decimal? TopP { get; init; }
```

Property Value

[decimal](#)?

Class Content

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents part of the content of a message.

```
public abstract class Content
```

Inheritance

[object](#) ← Content

Derived

[ImageContent](#), [TextContent](#), [ToolResultContent](#), [ToolUseContent](#)

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

Content(string)

Initializes a new instance of the [Content](#) class.

```
protected Content(string type)
```

Parameters

type [string](#)

The type of the content.

Properties

Type

Gets the type of the content.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class ContentDelta

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a content delta.

```
public abstract class ContentDelta
```

Inheritance

[object](#) ← ContentDelta

Derived

[JsonDelta](#), [TextDelta](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ContentDelta(string)

Initializes a new instance of the [ContentDelta](#) class.

```
protected ContentDelta(string type)
```

Parameters

type [string](#)

The type of the content delta.

Properties

Type

Gets the type of the content delta.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class ContentDeltaEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for a content_block_delta event.

```
public class ContentDeltaEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← ContentDeltaEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ContentDeltaEventData(int, ContentDelta)

Initializes a new instance of the [ContentDeltaEventData](#) class.

```
public ContentDeltaEventData(int index, ContentDelta delta)
```

Parameters

index [int](#)

The index of the content block.

delta [ContentDelta](#)

The content delta.

Properties

Delta

Gets the content delta.

```
public ContentDelta Delta { get; init; }
```

Property Value

[ContentDelta](#)

Index

Gets the index of the content block.

```
public int Index { get; init; }
```

Property Value

[int↗](#)

Class ContentDeltaType

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Provides constants for content delta types.

```
public static class ContentDeltaType
```

Inheritance

[object](#) ← ContentDeltaType

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

JsonDelta

The input_json_delta.

```
public const string JsonDelta = "input_json_delta"
```

Field Value

[string](#)

TextDelta

The text_delta.

```
public const string TextDelta = "text_delta"
```

Field Value

[string](#) ↗

Class ContentStartEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for a content_block_start event.

```
public class ContentStartEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← ContentStartEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ContentStartEventData(int, Content)

Initializes a new instance of the [ContentStartEventData](#) class.

```
public ContentStartEventData(int index, Content contentBlock)
```

Parameters

index [int](#)

The index of the content block.

contentBlock [Content](#)

The content block.

Properties

ContentBlock

Gets the content block.

```
[JsonPropertyName("content_block")]
public Content ContentBlock { get; init; }
```

Property Value

[Content](#)

Index

Gets the index of the content block.

```
public int Index { get; init; }
```

Property Value

[int](#)

Class ContentStopEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for a content_block_stop event.

```
public class ContentStopEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← ContentStopEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ContentStopEventData(int)

Initializes a new instance of the [ContentStopEventData](#) class.

```
public ContentStopEventData(int index)
```

Parameters

index [int](#)

The index of the content block.

Properties

Index

Gets the index of the content block.

```
public int Index { get; init; }
```

Property Value

[int ↗](#)

Class ContentType

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the content type.

```
public static class ContentType
```

Inheritance

[object](#) ← ContentType

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

Image

Represents the image content type.

```
public const string Image = "image"
```

Field Value

[string](#)

Text

Represents the text content type.

```
public const string Text = "text"
```

Field Value

[string](#)

ToolResult

Represents the tool result content type.

```
public const string ToolResult = "tool_result"
```

Field Value

[string](#)

ToolUse

Represents the tool use content type.

```
public const string ToolUse = "tool_use"
```

Field Value

[string](#)

Class Error

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an error.

```
public abstract class Error
```

Inheritance

[object](#) ← Error

Derived

[ApiError](#), [AuthenticationError](#), [InvalidRequestError](#), [NotFoundError](#), [OverloadedError](#), [PermissionError](#),
[RateLimitError](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

Error(string)

Initializes a new instance of the [Error](#) class.

```
protected Error(string type)
```

Parameters

type [string](#)

The type of the error.

Properties

Message

Gets the message of the error.

```
public string Message { get; init; }
```

Property Value

[string](#) ↗

Type

Gets the type of the error.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class ErrorEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for an error event.

```
public class ErrorEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← ErrorEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ErrorEventData(Error)

Initializes a new instance of the [ErrorEventData](#) class.

```
public ErrorEventData(Error error)
```

Parameters

error [Error](#)

The error.

Properties

Error

Gets the error.

```
public Error Error { get; init; }
```

Property Value

[Error](#)

Class ErrorType

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the error type.

```
public class ErrorType
```

Inheritance

[object](#) ← ErrorType

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

ApiError

Represents the api_error type.

```
public const string ApiError = "api_error"
```

Field Value

[string](#)

AuthenticationError

Represents the authentication_error type.

```
public const string AuthenticationError = "authentication_error"
```

Field Value

[string](#)

InvalidRequestError

Represents the invalid_request error type.

```
public const string InvalidRequestError = "invalid_request_error"
```

Field Value

[string](#)

NotFoundError

Represents the not_found_error type.

```
public const string NotFoundError = "not_found_error"
```

Field Value

[string](#)

OverloadedError

Represents the overloaded_error type.

```
public const string OverloadedError = "overloaded_error"
```

Field Value

[string](#)

PermissionError

Represents the permission_error type.

```
public const string PermissionError = "permission_error"
```

Field Value

[string](#) ↗

RateLimitError

Represents the rate_limit_error type.

```
public const string RateLimitError = "rate_limit_error"
```

Field Value

[string](#) ↗

Class EventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for an event.

```
public abstract class EventData
```

Inheritance

[object](#) ← EventData

Derived

[ContentDeltaEventData](#), [ContentStartEventData](#), [ContentStopEventData](#), [ErrorEventData](#),
[MessageCompleteEventData](#), [MessageDeltaEventData](#), [MessageStartEventData](#), [MessageStopEventData](#),
[PingEventData](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

EventData(string)

Initializes a new instance of the [EventData](#) class.

```
protected EventData(string type)
```

Parameters

type [string](#)

The type of the event.

Properties

Type

Gets the type of the event.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class EventType

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Provides constants for event types.

```
public static class EventType
```

Inheritance

[object](#) ← EventType

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

ContentBlockDelta

Represents the content_block_delta event type.

```
public const string ContentBlockDelta = "content_block_delta"
```

Field Value

[string](#)

ContentBlockStart

Represents the content_block_start event type.

```
public const string ContentBlockStart = "content_block_start"
```

Field Value

[string](#)

ContentBlockStop

Represents the content_block_stop event type.

```
public const string ContentBlockStop = "content_block_stop"
```

Field Value

[string](#)

Error

Represents the error event type.

```
public const string Error = "error"
```

Field Value

[string](#)

MessageComplete

Represents the message_complete event type.

```
public const string MessageComplete = "message_complete"
```

Field Value

[string](#)

MessageDelta

Represents the message_delta event type.

```
public const string MessageDelta = "message_delta"
```

Field Value

[string](#)

MessageStart

Represents the message_start event type.

```
public const string MessageStart = "message_start"
```

Field Value

[string](#)

MessageStop

Represents the message_stop event type.

```
public const string MessageStop = "message_stop"
```

Field Value

[string](#)

Ping

Represents the ping event type.

```
public const string Ping = "ping"
```

Field Value

[string](#)

Class FunctionParameterAttribute

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Attribute to describe a function parameter.

```
[AttributeUsage(AttributeTargets.Parameter)]
public sealed class FunctionParameterAttribute : Attribute
```

Inheritance

[object](#) ← [Attribute](#) ← FunctionParameterAttribute

Inherited Members

[Attribute.Equals\(object\)](#) , [Attribute.GetCustomAttribute\(Assembly, Type\)](#) ,
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#) ,
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#) ,
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#) ,
[Attribute.GetCustomAttribute\(Module, Type\)](#) , [Attribute.GetCustomAttribute\(Module, Type, bool\)](#) ,
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#) ,
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#) , [Attribute.GetCustomAttributes\(Assembly\)](#) ,
[Attribute.GetCustomAttributes\(Assembly, bool\)](#) , [Attribute.GetCustomAttributes\(Assembly, Type\)](#) ,
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#) , [Attribute.GetCustomAttributes\(MemberInfo\)](#) ,
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#) ,
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#) ,
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#) , [Attribute.GetCustomAttributes\(Module\)](#) ,
[Attribute.GetCustomAttributes\(Module, bool\)](#) , [Attribute.GetCustomAttributes\(Module, Type\)](#) ,
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#) , [Attribute.GetCustomAttributes\(ParameterInfo\)](#) ,
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#) ,
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#) ,
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#) , [Attribute.GetHashCode\(\)](#) ,
[Attribute.IsDefaultAttribute\(\)](#) , [Attribute.IsDefined\(Assembly, Type\)](#) ,
[Attribute.IsDefined\(Assembly, Type, bool\)](#) , [Attribute.IsDefined\(MemberInfo, Type\)](#) ,
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#) , [Attribute.IsDefined\(Module, Type\)](#) ,
[Attribute.IsDefined\(Module, Type, bool\)](#) , [Attribute.IsDefined\(ParameterInfo, Type\)](#) ,
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#) , [Attribute.Match\(object\)](#) , [Attribute.TypeId](#) ,
[object.Equals\(object, object\)](#) , [object.GetType\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

FunctionParameterAttribute(string, string, bool)

Initializes a new instance of the [FunctionParameterAttribute](#) class.

```
public FunctionParameterAttribute(string description, string name = "", bool required = false)
```

Parameters

description [string](#)

The description of the parameter.

name [string](#)

The name of the parameter.

required [bool](#)

Whether the parameter is required.

Properties

Description

The description of the parameter.

```
public string Description { get; }
```

Property Value

[string](#)

Name

The name of the parameter.

```
public string Name { get; }
```

Property Value

string ↗

Required

Whether the parameter is required.

```
public bool Required { get; }
```

Property Value

bool ↗

Class FunctionPropertyAttribute

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Attribute to describe a property of a type that is used as a function parameter.

```
[AttributeUsage(AttributeTargets.Property | AttributeTargets.Field)]
public class FunctionPropertyAttribute : Attribute
```

Inheritance

[object](#) ← [Attribute](#) ← FunctionPropertyAttribute

Inherited Members

[Attribute.Equals\(object\)](#) , [Attribute.GetCustomAttribute\(Assembly, Type\)](#) ,
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#) ,
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#) ,
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#) ,
[Attribute.GetCustomAttribute\(Module, Type\)](#) , [Attribute.GetCustomAttribute\(Module, Type, bool\)](#) ,
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#) ,
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#) , [Attribute.GetCustomAttributes\(Assembly\)](#) ,
[Attribute.GetCustomAttributes\(Assembly, bool\)](#) , [Attribute.GetCustomAttributes\(Assembly, Type\)](#) ,
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#) , [Attribute.GetCustomAttributes\(MemberInfo\)](#) ,
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#) ,
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#) ,
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#) , [Attribute.GetCustomAttributes\(Module\)](#) ,
[Attribute.GetCustomAttributes\(Module, bool\)](#) , [Attribute.GetCustomAttributes\(Module, Type\)](#) ,
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#) , [Attribute.GetCustomAttributes\(ParameterInfo\)](#) ,
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#) ,
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#) ,
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#) , [Attribute.GetHashCode\(\)](#) ,
[Attribute.IsDefaultAttribute\(\)](#) , [Attribute.IsDefined\(Assembly, Type\)](#) ,
[Attribute.IsDefined\(Assembly, Type, bool\)](#) , [Attribute.IsDefined\(MemberInfo, Type\)](#) ,
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#) , [Attribute.IsDefined\(Module, Type\)](#) ,
[Attribute.IsDefined\(Module, Type, bool\)](#) , [Attribute.IsDefined\(ParameterInfo, Type\)](#) ,
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#) , [Attribute.Match\(object\)](#) , [Attribute.TypeId](#) ,
[object.Equals\(object, object\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

FunctionPropertyAttribute(string, bool, object?, object[]?)

Initializes a new instance of the [FunctionPropertyAttribute](#) class.

```
public FunctionPropertyAttribute(string description, bool required = false, object?  
defaultValue = null, object[]? possibleValues = null)
```

Parameters

description [string](#)

Description of the property.

required [bool](#)

Whether the property is required.

defaultValue [object](#)

Default value of the property.

possibleValues [object\[\]](#)

Possible values of the property.

Properties

DefaultValue

Default value of the property.

```
public object? DefaultValue { get; }
```

Property Value

[object](#)

Description

Description of the property.

```
public string Description { get; }
```

Property Value

[string](#)

PossibleValues

Possible values of the property.

```
public object[]? PossibleValues { get; }
```

Property Value

[object](#)[]

Required

Whether the property is required.

```
public bool Required { get; }
```

Property Value

[bool](#)

Interface ITool

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Interface that a class can implement to be used to create a tool.

```
public interface ITool
```

Properties

Description

Gets the description of the tool. Should not be null or empty.

```
string Description { get; }
```

Property Value

[string](#)

Function

Gets the input schema of the tool. Should not be null.

```
MethodInfo Function { get; }
```

Property Value

[MethodInfo](#)

Name

Gets the name of the tool. Should not be null or empty.

```
string Name { get; }
```

Property Value

[string](#) ↗

Class ImageContent

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents image content that is part of a message.

```
public class ImageContent : Content
```

Inheritance

[object](#) ← [Content](#) ← ImageContent

Inherited Members

[Content.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ImageContent(string, string)

Initializes a new instance of the [ImageContent](#) class.

```
public ImageContent(string mediaType, string data)
```

Parameters

mediaType [string](#)

The media type of the image.

data [string](#)

The data of the image.

Exceptions

[ArgumentNullException](#)

Thrown when the media type or data is null.

Properties

Source

Gets the source of the image.

```
public ImageSource Source { get; init; }
```

Property Value

[ImageSource](#)

Class ImageSource

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an image source.

```
public class ImageSource
```

Inheritance

[object](#) ← ImageSource

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ImageSource(string, string)

Initializes a new instance of the [ImageSource](#) class.

```
public ImageSource(string mediaType, string data)
```

Parameters

mediaType [string](#)

The media type of the image.

data [string](#)

The data of the image.

Exceptions

[ArgumentException](#)

Thrown when the media type is invalid.

[ArgumentNullException](#)

Thrown when the media type or data is null.

Properties

Data

Gets the data of the image.

```
public string Data { get; init; }
```

Property Value

[string](#)

MediaType

Gets the media type of the image.

```
[JsonPropertyName("media_type")]
public string MediaType { get; init; }
```

Property Value

[string](#)

Class ImageType

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the image type.

```
public static class ImageType
```

Inheritance

[object](#) ← ImageType

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

Gif

Represents the GIF image type.

```
public const string Gif = "image/gif"
```

Field Value

[string](#)

Jpg

Represents the JPEG image type.

```
public const string Jpg = "image/jpeg"
```

Field Value

[string](#)

Png

Represents the PNG image type.

```
public const string Png = "image/png"
```

Field Value

[string](#)

Webp

Represents the WebP image type.

```
public const string Webp = "image/webp"
```

Field Value

[string](#)

Class InputProperty

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an input property.

```
public class InputProperty
```

Inheritance

[object](#) ← InputProperty

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

InputProperty(string, string)

Initializes a new instance of the [InputProperty](#) class.

```
public InputProperty(string type, string description)
```

Parameters

type [string](#)

The type of the input property.

description [string](#)

The description of the input property.

Exceptions

[ArgumentNullException](#)

Thrown when the type or description is null.

Properties

Description

Gets the description of the input property.

```
public string Description { get; init; }
```

Property Value

[string](#) ↗

Type

Gets the type of the input property.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class InputSchema

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an input schema.

```
public class InputSchema
```

Inheritance

[object](#) ← InputSchema

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

InputSchema(Dictionary<string, InputProperty>, List<string>)

Initializes a new instance of the [InputSchema](#) class.

```
public InputSchema(Dictionary<string, InputProperty> properties, List<string> required)
```

Parameters

properties [Dictionary](#)<[string](#), [InputProperty](#)>

The properties of the input schema.

required [List](#)<[string](#)>

The required properties of the input schema.

Exceptions

[ArgumentNullException](#)

Thrown when the properties or required is null.

[ArgumentException](#)

Thrown when the required properties are not present in the properties dictionary.

Properties

Properties

Gets the properties of the input schema.

```
public Dictionary<string, InputProperty> Properties { get; init; }
```

Property Value

[Dictionary](#)<[string](#), [InputProperty](#)>

Required

Gets the required properties of the input schema.

```
public List<string> Required { get; init; }
```

Property Value

[List](#)<[string](#)>

Type

Gets the type of the input schema.

```
public string Type { get; init; }
```

Property Value

[string](#)

Class InvalidRequestError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an invalid_request error.

```
public class InvalidRequestError : Error
```

Inheritance

[object](#) ← [Error](#) ← InvalidRequestError

Inherited Members

[Error.Type](#) , [Error.Message](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

InvalidRequestError(string)

Initializes a new instance of the [InvalidRequestError](#) class.

```
public InvalidRequestError(string message)
```

Parameters

message [string](#)

The message of the error.

Class JsonDelta

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a JSON delta.

```
public class JsonDelta : ContentDelta
```

Inheritance

[object](#) ← [ContentDelta](#) ← JsonDelta

Inherited Members

[ContentDelta.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

JsonDelta(string)

Initializes a new instance of the [JsonDelta](#) class.

```
public JsonDelta(string partialJson)
```

Parameters

partialJson [string](#)

The partial JSON.

Properties

PartialJson

Gets the partial JSON.

```
[JsonPropertyName("partial_json")]
public string PartialJson { get; init; }
```

Property Value

string ↗

Class Message

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a message.

```
public class Message
```

Inheritance

[object](#) ← Message

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

Message(string, List<Content>)

Initializes a new instance of the [Message](#) class.

```
public Message(string role, List<Content> content)
```

Parameters

role [string](#)

The role of the message.

content [List](#)<[Content](#)>

The contents of the message.

Exceptions

[ArgumentException](#)

Thrown when the role is invalid.

[ArgumentNullException](#)

Thrown when the role or content is null.

Properties

Content

Gets the contents of the message.

```
public List<Content> Content { get; init; }
```

Property Value

[List](#)<[Content](#)>

Role

Gets the role of the message.

```
public string Role { get; init; }
```

Property Value

[string](#)

Class MessageCompleteEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for the message_complete event.

```
public class MessageCompleteEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← MessageCompleteEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

MessageCompleteEventData(MessageResponse, AnthropicHeaders)

Initializes a new instance of the [MessageCompleteEventData](#) class.

```
public MessageCompleteEventData(MessageResponse message, AnthropicHeaders headers)
```

Parameters

message [MessageResponse](#)

The response message.

headers [AnthropicHeaders](#)

The anthropic headers.

Properties

Headers

Gets the anthropic headers.

```
public AnthropicHeaders Headers { get; init; }
```

Property Value

[AnthropicHeaders](#)

Message

Gets the response message.

```
public MessageResponse Message { get; init; }
```

Property Value

[MessageResponse](#)

Class MessageDelta

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a message delta.

```
public class MessageDelta
```

Inheritance

[object](#) ← MessageDelta

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

MessageDelta(string, string)

Initializes a new instance of the [MessageDelta](#) class.

```
public MessageDelta(string stopReason, string stopSequence)
```

Parameters

stopReason [string](#)

The stop reason.

stopSequence [string](#)

The stop sequence.

Properties

StopReason

Gets the stop reason.

```
[JsonPropertyName("stop_reason")]
public string StopReason { get; init; }
```

Property Value

[string](#)

StopSequence

Gets the stop sequence.

```
[JsonPropertyName("stop_sequence")]
public string? StopSequence { get; init; }
```

Property Value

[string](#)

Class MessageDeltaEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for a message_delta event.

```
public class MessageDeltaEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← MessageDeltaEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

MessageDeltaEventData(MessageDelta, Usage)

Initializes a new instance of the [MessageDeltaEventData](#) class.

```
public MessageDeltaEventData(MessageDelta delta, Usage usage)
```

Parameters

delta [MessageDelta](#)

The message delta.

usage [Usage](#)

The usage.

Properties

Delta

Gets the message delta.

```
public MessageDelta Delta { get; init; }
```

Property Value

[MessageDelta](#)

Usage

Gets the usage.

```
public Usage Usage { get; init; }
```

Property Value

[Usage](#)

Class MessageRequest

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a message request.

```
public class MessageRequest : BaseMessageRequest
```

Inheritance

[object](#) ← [BaseMessageRequest](#) ← MessageRequest

Inherited Members

[BaseMessageRequest.Model](#), [BaseMessageRequest.System](#), [BaseMessageRequest.Messages](#),
[BaseMessageRequest.MaxTokens](#), [BaseMessageRequest.Metadata](#),
[BaseMessageRequest.StopSequences](#), [BaseMessageRequest.Temperature](#), [BaseMessageRequest.TopK](#),
[BaseMessageRequest.TopP](#), [BaseMessageRequest.ToolChoice](#), [BaseMessageRequest.Tools](#),
[BaseMessageRequest.Stream](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#),
[object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#),
[object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

MessageRequest(string, List<Message>, int, string?, Dictionary<string, object>?, decimal, int?, decimal?, ToolChoice?, List<Tool>?)

Initializes a new instance of the [MessageRequest](#) class.

```
public MessageRequest(string model, List<Message> messages, int maxTokens = 1024, string?  
system = null, Dictionary<string, object>? metadata = null, decimal temperature = 0.0, int?  
topK = null, decimal? topP = null, ToolChoice? toolChoice = null, List<Tool>? tools = null)
```

Parameters

model [string](#)

The model ID to use for the request.

messages [List](#) <[Message](#)>

The messages to send to the model.

maxTokens [int](#)

The maximum number of tokens to generate.

system [string](#)

The system ID to use for the request.

metadata [Dictionary](#) <[string](#), [object](#)>

The metadata to include with the request.

temperature [decimal](#)

The temperature to use for the request.

topK [int](#)?

The top-K value to use for the request.

topP [decimal](#)?

The top-P value to use for the request.

toolChoice [ToolChoice](#)

The tool choice mode to use for the request.

tools [List](#) <[Tool](#)>

The tools to use for the request.

Exceptions

[ArgumentException](#)

Thrown when the model ID is invalid.

[ArgumentNullException](#)

Thrown when the model or messages is null.

[ArgumentException](#)

Thrown when the messages contain no messages.

[ArgumentException](#)

Thrown when the max tokens is less than one.

[ArgumentException](#)

Thrown when the temperature is less than zero or greater than one.

Class MessageResponse

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a response.

```
public class MessageResponse
```

Inheritance

[object](#) ← MessageResponse

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

Content

Gets the contents of the response.

```
public List<Content> Content { get; init; }
```

Property Value

[List](#)<[Content](#)>

Id

Gets the ID of the response.

```
public string Id { get; init; }
```

Property Value

[string](#)

Model

Gets the model used for the response.

```
public string Model { get; init; }
```

Property Value

[string](#)

Role

Gets the role of the response.

```
public string Role { get; init; }
```

Property Value

[string](#)

StopReason

Gets the stop reason of the response.

```
[JsonPropertyName("stop_reason")]
public string? StopReason { get; init; }
```

Property Value

[string](#)

StopSequence

Gets the stop sequence of the response.

```
[JsonPropertyName("stop_sequence")]
public string? StopSequence { get; init; }
```

Property Value

[string](#) ↗

ToolCall

Gets the tool call of the response. If the response does not contain a tool call, this property is null.

```
[JsonIgnore]
public ToolCall? ToolCall { get; set; }
```

Property Value

[ToolCall](#)

Type

Gets the type of the response.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Usage

Gets the usage of the response.

```
public Usage Usage { get; init; }
```

Property Value

Usage

Class MessageRole

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the message role.

```
public static class MessageRole
```

Inheritance

[object](#) ← MessageRole

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

Assistant

Represents the assistant role.

```
public const string Assistant = "assistant"
```

Field Value

[string](#)

User

Represents the user role.

```
public const string User = "user"
```

Field Value

[string ↗](#)

Class MessageStartEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for a message_start event.

```
public class MessageStartEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← MessageStartEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

MessageStartEventData(MessageResponse)

Initializes a new instance of the [MessageStartEventData](#) class.

```
public MessageStartEventData(MessageResponse message)
```

Parameters

message [MessageResponse](#)

The message.

Properties

Message

Gets the message.

```
public MessageResponse Message { get; init; }
```

Property Value

[MessageResponse](#)

Class MessageStopEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for a message_stop event.

```
public class MessageStopEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← MessageStopEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

MessageStopEventData()

Initializes a new instance of the [MessageStopEventData](#) class.

```
public MessageStopEventData()
```

Class NotNotFoundError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a not_found error.

```
public class NotNotFoundError : Error
```

Inheritance

[object](#) ← [Error](#) ← NotNotFoundError

Inherited Members

[Error.Type](#) , [Error.Message](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

NotNotFoundError(string)

Initializes a new instance of the [NotNotFoundError](#) class.

```
public NotNotFoundError(string message)
```

Parameters

message [string](#)

The message of the error.

Class OverloadedError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents an overloaded error.

```
public class OverloadedError : Error
```

Inheritance

[object](#) ← [Error](#) ← OverloadedError

Inherited Members

[Error.Type](#) , [Error.Message](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

OverloadedError(string)

Initializes a new instance of the [OverloadedError](#) class.

```
public OverloadedError(string message)
```

Parameters

message [string](#)

The message of the error.

Class PermissionError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a permission error.

```
public class PermissionError : Error
```

Inheritance

[object](#) ↴ ← [Error](#) ← PermissionError

Inherited Members

[Error.Type](#) , [Error.Message](#) , [object.Equals\(object\)](#) ↴ , [object.Equals\(object, object\)](#) ↴ ,
[object.GetHashCode\(\)](#) ↴ , [object.GetType\(\)](#) ↴ , [object.MemberwiseClone\(\)](#) ↴ ,
[object.ReferenceEquals\(object, object\)](#) ↴ , [object.ToString\(\)](#) ↴

Constructors

PermissionError(string)

Initializes a new instance of the [PermissionError](#) class.

```
public PermissionError(string message)
```

Parameters

message [string](#) ↴

The message of the error.

Class PingEventData

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents data for a ping event.

```
public class PingEventData : EventData
```

Inheritance

[object](#) ← [EventData](#) ← PingEventData

Inherited Members

[EventData.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

PingEventData()

Initializes a new instance of the [PingEventData](#) class.

```
public PingEventData()
```

Class RateLimitError

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a rate_limit error.

```
public class RateLimitError : Error
```

Inheritance

[object](#) ← [Error](#) ← RateLimitError

Inherited Members

[Error.Type](#) , [Error.Message](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

RateLimitError(string)

Initializes a new instance of the [RateLimitError](#) class.

```
public RateLimitError(string message)
```

Parameters

message [string](#)

The message of the error.

Class SpecificToolChoice

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the specific tool choice mode.

```
public class SpecificToolChoice : ToolChoice
```

Inheritance

[object](#) ← [ToolChoice](#) ← SpecificToolChoice

Inherited Members

[ToolChoice.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

SpecificToolChoice(string)

Initializes a new instance of the [SpecificToolChoice](#) class.

```
public SpecificToolChoice(string name)
```

Parameters

name [string](#)

The name of the tool.

Exceptions

[ArgumentNullException](#)

Thrown when the name is null.

Properties

Name

Gets the name of the tool.

```
public string Name { get; init; }
```

Property Value

[string](#) ↗

Class StopReasonType

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the stop reason type.

```
public static class StopReasonType
```

Inheritance

[object](#) ← StopReasonType

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

EndTurn

Represents the end_turn stop reason.

```
public const string EndTurn = "end_turn"
```

Field Value

[string](#)

MaxTokens

Represents the max_tokens stop reason.

```
public const string MaxTokens = "max_tokens"
```

Field Value

[string](#)

StopSequence

Represents the stop_sequence stop reason.

```
public const string StopSequence = "stop_sequence"
```

Field Value

[string](#)

ToolUse

Represents the tool_use stop reason.

```
public const string ToolUse = "tool_use"
```

Field Value

[string](#)

Class StreamMessageRequest

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a message request.

```
public class StreamMessageRequest : BaseMessageRequest
```

Inheritance

[object](#) ← [BaseMessageRequest](#) ← StreamMessageRequest

Inherited Members

[BaseMessageRequest.Model](#), [BaseMessageRequest.System](#), [BaseMessageRequest.Messages](#),
[BaseMessageRequest.MaxTokens](#), [BaseMessageRequest.Metadata](#),
[BaseMessageRequest.StopSequences](#), [BaseMessageRequest.Temperature](#), [BaseMessageRequest.TopK](#),
[BaseMessageRequest.TopP](#), [BaseMessageRequest.ToolChoice](#), [BaseMessageRequest.Tools](#),
[BaseMessageRequest.Stream](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#),
[object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#),
[object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

StreamMessageRequest(string, List<Message>, int, string?, Dictionary<string, object>?, decimal, int?, decimal?, ToolChoice?, List<Tool>?)

Initializes a new instance of the [StreamMessageRequest](#) class.

```
public StreamMessageRequest(string model, List<Message> messages, int maxTokens = 1024,  
    string? system = null, Dictionary<string, object>? metadata = null, decimal temperature =  
    0.0, int? topK = null, decimal? topP = null, ToolChoice? toolChoice = null, List<Tool>?  
    tools = null)
```

Parameters

model [string](#)

The model ID to use for the request.

messages [List](#)<[Message](#)>

The messages to send to the model.

maxTokens [int](#)

The maximum number of tokens to generate.

system [string](#)

The system ID to use for the request.

metadata [Dictionary](#)<[string](#), [object](#)>

The metadata to include with the request.

temperature [decimal](#)

The temperature to use for the request.

topK [int](#)?

The top-K value to use for the request.

topP [decimal](#)?

The top-P value to use for the request.

toolChoice [ToolChoice](#)

The tool choice mode to use for the request.

tools [List](#)<[Tool](#)>

The tools to use for the request.

Exceptions

[ArgumentException](#)

Thrown when the model ID is invalid.

[ArgumentNullException](#)

Thrown when the model or messages is null.

[ArgumentException](#)

Thrown when the messages contain no messages.

[ArgumentException](#)

Thrown when the max tokens is less than one.

[ArgumentException](#)

Thrown when the temperature is less than zero or greater than one.

Class TextContent

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents text content that is part of a message.

```
public class TextContent : Content
```

Inheritance

[object](#) ↗ ← [Content](#) ← TextContent

Inherited Members

[Content.Type](#) , [object.Equals\(object\)](#) ↗ , [object.Equals\(object, object\)](#) ↗ , [object.GetHashCode\(\)](#) ↗ ,
[object.GetType\(\)](#) ↗ , [object.MemberwiseClone\(\)](#) ↗ , [object.ReferenceEquals\(object, object\)](#) ↗ ,
[object.ToString\(\)](#) ↗

Constructors

TextContent(string)

Initializes a new instance of the [TextContent](#) class.

```
public TextContent(string text)
```

Parameters

text [string](#) ↗

The text of the content.

Exceptions

[ArgumentNullException](#) ↗

Thrown when the text is null.

Properties

Text

Gets the text of the content.

```
public string Text { get; init; }
```

Property Value

[string](#) ↗

Class TextDelta

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a text delta.

```
public class TextDelta : ContentDelta
```

Inheritance

[object](#) ← [ContentDelta](#) ← TextDelta

Inherited Members

[ContentDelta.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

TextDelta(string)

Initializes a new instance of the [TextDelta](#) class.

```
public TextDelta(string text)
```

Parameters

text [string](#)

The text.

Properties

Text

Gets the text.

```
public string Text { get; set; }
```

Property Value

[string](#) ↗

Class Tool

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a tool that can be used.

```
public class Tool
```

Inheritance

[object](#) ← Tool

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

Description

Gets the description of the tool.

```
public string Description { get; }
```

Property Value

[string](#)

DisplayName

Gets the display name of the tool.

```
[JsonIgnore]  
public string DisplayName { get; }
```

Property Value

[string](#) ↗

Function

Gets the function of the tool.

```
[JsonIgnore]  
public AnthropicFunction Function { get; }
```

Property Value

[AnthropicFunction](#)

InputSchema

Gets the input schema of the tool.

```
[JsonPropertyName("input_schema")]  
public JsonObject InputSchema { get; }
```

Property Value

[JsonObject](#) ↗

Name

Gets the name of the tool. This name will conform to the Anthropic tool naming rules.

```
public string Name { get; }
```

Property Value

[string](#) ↗

Methods

CreateFromClass<T>()

Creates a tool from a type that implements [ITool](#).

```
public static Tool CreateFromClass<T>() where T : ITool, new()
```

Returns

[Tool](#)

The created tool as instance of [Tool](#).

Type Parameters

T

The type that implements [ITool](#).

Remarks

The implementation of [ITool](#) must have a parameterless constructor.

Exceptions

[ArgumentException](#)

Thrown when the name or description of the tool is null or empty.

[ArgumentNullException](#)

Thrown when the function of the tool is null.

CreateFromFunction<TResult>(string, string, Func<TResult>)

Creates a tool from a function.

```
public static Tool CreateFromFunction<TResult>(string name, string description,
Func<TResult> func)
```

Parameters

name [string](#)

The name of the tool.

description [string](#)

The description of the tool.

func [Func](#)<TResult>

The function.

Returns

[Tool](#)

The created tool as instance of [Tool](#).

Type Parameters

TResult

The type of the result for the delegate.

Remarks

The name of the tool will be sanitized to conform to the Anthropic tool naming rules.

Exceptions

[ArgumentNullException](#)

Thrown when **func** is null.

CreateFromFunction<T1, TResult>(string, string, Func<T1, TResult>)

Creates a tool from a function.

```
public static Tool CreateFromFunction<T1, TResult>(string name, string description, Func<T1, TResult> func)
```

Parameters

`name` [string](#)

The name of the tool.

`description` [string](#)

The description of the tool.

`func` [Func](#)<T1, TResult>

The function.

Returns

[Tool](#)

The created tool as instance of [Tool](#).

Type Parameters

`T1`

The type of the first parameter for the delegate.

`TResult`

The type of the result for the delegate.

Remarks

The name of the tool will be sanitized to conform to the Anthropic tool naming rules.

Exceptions

[ArgumentNullException](#)

Thrown when `func` is null.

CreateFromFunction<T1, T2, TResult>(string, string, Func<T1, T2, TResult>)

Creates a tool from a function.

```
public static Tool CreateFromFunction<T1, T2, TResult>(string name, string description,  
Func<T1, T2, TResult> func)
```

Parameters

name [string](#)

The name of the tool.

description [string](#)

The description of the tool.

func [Func](#)<T1, T2, TResult>

The function.

Returns

[Tool](#)

The created tool as instance of [Tool](#).

Type Parameters

T1

The type of the first parameter for the delegate.

T2

The type of the second parameter for the delegate.

TResult

The type of the result for the delegate.

Remarks

The name of the tool will be sanitized to conform to the Anthropic tool naming rules.

Exceptions

[ArgumentException](#)

Thrown when `func` is null.

CreateFromInstanceMethod(string, string, object, string)

Creates a tool from an instance method.

```
public static Tool CreateFromInstanceMethod(string name, string description, object
instance, string methodName)
```

Parameters

`name` [string](#)

The name of the tool.

`description` [string](#)

The description of the tool.

`instance` [object](#)

The instance that contains the method.

`methodName` [string](#)

The name of the method.

Returns

[Tool](#)

The created tool as instance of [Tool](#).

Remarks

The name of the tool will be sanitized to conform to the Anthropic tool naming rules.

Exceptions

[ArgumentException](#)

Thrown when `methodName` is null or empty.

[ArgumentNullException](#)

Thrown when `instance` is null.

[ArgumentException](#)

Thrown when `methodName` is not found in the type of `instance`.

CreateFromStaticMethod(string, string, Type, string)

Creates a tool from a static method.

```
public static Tool CreateFromStaticMethod(string name, string description, Type type,  
string methodName)
```

Parameters

`name` [string](#)

The name of the tool.

`description` [string](#)

The description of the tool.

`type` [Type](#)

The type that contains the method.

`methodName` [string](#)

The name of the method.

Returns

[Tool](#)

The created tool as instance of [Tool](#).

Remarks

The name of the tool will be sanitized to conform to the Anthropic tool naming rules.

Exceptions

[ArgumentException](#)

Thrown when `methodName` is null or empty.

[ArgumentNullException](#)

Thrown when `type` is null.

[ArgumentException](#)

Thrown when the method is not found in the type.

Class ToolCall

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a tool call.

```
public class ToolCall
```

Inheritance

[object](#) ← ToolCall

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ToolCall(Tool, ToolUseContent)

Initializes a new instance of the [ToolCall](#) class.

```
public ToolCall(Tool tool, ToolUseContent toolUse)
```

Parameters

tool [Tool](#)

The tool of the tool call.

toolUse [ToolUseContent](#)

The tool use of the tool call.

Properties

Tool

Gets the tool of the tool call.

```
public Tool Tool { get; }
```

Property Value

[Tool](#)

ToolUse

Gets the tool use of the tool call.

```
public ToolUseContent ToolUse { get; }
```

Property Value

[ToolUseContent](#)

Methods

InvokeAsync()

Invokes the tool call.

```
public Task<ToolCallResult<object>> InvokeAsync()
```

Returns

[Task](#) <[ToolCallResult](#)<[object](#)>>

The result of the tool call as an instance of [ToolCallResult<T>](#).

InvokeAsync<T>()

Invokes the tool call.

```
public Task<ToolCallResult<T>> InvokeAsync<T>()
```

Returns

[Task](#)<[ToolCallResult](#)<T>>

The result of the tool call as an instance of [ToolCallResult<T>](#).

Type Parameters

T

The type of the result value.

Exceptions

[ArgumentException](#)

Thrown when a parameter name is not found.

[ArgumentException](#)

Thrown when an argument is missing.

Class ToolCallResult<T>

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a tool call result.

```
public class ToolCallResult<T>
```

Type Parameters

T

Inheritance

[object](#) ← ToolCallResult<T>

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ToolCallResult(T?, Exception, bool)

Initializes a new instance of the [ToolCallResult<T>](#) class.

```
protected ToolCallResult(T? value, Exception error, bool isSuccess)
```

Parameters

value T

The value of the tool call result.

error [Exception](#)

The error of the tool call result.

isSuccess [bool](#)

Indicates whether the tool call was successful.

Properties

Error

The error of the tool call result.

```
public Exception Error { get; }
```

Property Value

[Exception](#)

Exceptions

[InvalidOperationException](#)

Thrown when the result is successful.

IsFailure

Indicates whether the tool call failed.

```
public bool IsFailure { get; }
```

Property Value

[bool](#)

IsSuccess

Indicates whether the tool call was successful.

```
public bool IsSuccess { get; }
```

Property Value

[bool](#) ↗

Value

The value of the tool call result. Can be null if the call failed, the call was successful but the return type is void or Task, or the call was successful but the return value is null

```
public T? Value { get; }
```

Property Value

T

Exceptions

[InvalidOperationException](#) ↗

Thrown when the result is not successful.

Methods

Failure(Exception)

Creates a failed tool call result.

```
public static ToolCallResult<T> Failure(Exception error)
```

Parameters

error [Exception](#) ↗

The error of the tool call result.

Returns

[ToolCallResult](#)<T>

A new instance of the [ToolCallResult<T>](#) class.

Success(T?)

Creates a successful tool call result.

```
public static ToolCallResult<T> Success(T? value)
```

Parameters

value T

The value of the tool call result.

Returns

[ToolCallResult<T>](#)

A new instance of the [ToolCallResult<T>](#) class.

Class ToolChoice

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents a tool choice mode.

```
public abstract class ToolChoice
```

Inheritance

[object](#) ← ToolChoice

Derived

[AnyToolChoice](#), [AutoToolChoice](#), [SpecificToolChoice](#)

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

ToolChoice(string)

Initializes a new instance of the [ToolChoice](#) class.

```
protected ToolChoice(string type)
```

Parameters

type [string](#)

The type of the tool choice.

Properties

Type

Gets the type of the tool choice.

```
public string Type { get; init; }
```

Property Value

[string](#) ↗

Class ToolChoiceType

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the tool choice type.

```
public class ToolChoiceType
```

Inheritance

[object](#) ← ToolChoiceType

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Fields

Any

Represents the any tool choice type.

```
public const string Any = "any"
```

Field Value

[string](#)

Auto

Represents the auto tool choice type.

```
public const string Auto = "auto"
```

Field Value

[string](#) ↗

Tool

Represents the specific tool choice type.

```
public const string Tool = "tool"
```

Field Value

[string](#) ↗

Class ToolResultContent

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents tool result content that is part of a message.

```
public class ToolResultContent : Content
```

Inheritance

[object](#) ← [Content](#) ← ToolResultContent

Inherited Members

[Content.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ToolResultContent(string, string)

Initializes a new instance of the [ToolResultContent](#) class.

```
public ToolResultContent(string toolUseId, string content)
```

Parameters

toolUseId [string](#)

The tool use ID of the content.

content [string](#)

The content of the tool result.

Exceptions

[ArgumentNullException](#)

Thrown when the tool use ID or content is null.

Properties

Content

Gets the content of the tool result.

```
public string Content { get; init; }
```

Property Value

[string](#)

ToolUseId

Gets the tool use ID of the content.

```
[JsonPropertyName("tool_use_id")]
public string ToolUseId { get; init; }
```

Property Value

[string](#)

Class ToolUseContent

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents tool use content that is part of a message.

```
public class ToolUseContent : Content
```

Inheritance

[object](#) ← [Content](#) ← ToolUseContent

Inherited Members

[Content.Type](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) ,
[object.ToString\(\)](#)

Constructors

ToolUseContent()

Initializes a new instance of the [ToolUseContent](#) class.

```
public ToolUseContent()
```

Properties

Id

Gets the ID of the tool use.

```
public string Id { get; init; }
```

Property Value

[string](#)

Input

Gets the input of the tool.

```
public Dictionary<string, object?> Input { get; init; }
```

Property Value

[Dictionary](#)<[string](#), [object](#)>

Name

Gets the name of the tool.

```
public string Name { get; init; }
```

Property Value

[string](#)

Class Usage

Namespace: [AnthropicClient.Models](#)

Assembly: AnthropicClient.dll

Represents the usage of a response.

```
public class Usage
```

Inheritance

[object](#) ← Usage

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Properties

InputTokens

Gets the number of input tokens used.

```
[JsonPropertyName("input_tokens")]
public int InputTokens { get; init; }
```

Property Value

[int](#)

OutputTokens

Gets the number of output tokens used.

```
[JsonPropertyName("output_tokens")]
public int OutputTokens { get; init; }
```

Property Value

[int ↗](#)