# UGemini 2.0.0-preview.3

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| 1 Breaking Changes Notice                 | 1  |
|---|----|
| 1.0.1 General Changes                     | 1  |
| 1.0.2 Namespace Changes                   | 1  |
| 2 QuickStart and Documentation            | 5  |
| 2.1 Basics                                | 5  |
| 2.1.1 Setup                               | 5  |
| 2.1.2 GeminiManager                       | 5  |
| 2.1.3 Beta API                            | 5  |
| 2.1.4 Models                              | 6  |
| 2.1.5 QuickStart: Multi-turn Chat Request | 6  |
| 2.2 All Supported Endpoints               | 6  |
| 2.2.1 Models                              | 6  |
| 2.2.1.1 Get                               | 7  |
| 2.2.1.2 List                              | 7  |
| 2.2.1.3 EmbedContent                      | 7  |
| 2.2.1.4 BatchEmbedContents                | 8  |
| 2.2.1.5 GenerateContent                   | 8  |
| 2.2.1.6 StreamGenerateContent             | 8  |
| 2.2.1.7 GenerateAnswer (Beta API)         | 9  |
| 2.2.1.8 CountTokens                       | 10 |
| 2.2.2 TunedModels (Unstable)              | 10 |
| 2.2.2.1 GenerateContent                   | 10 |
| 2.2.3 Files (Beta API)                    | 11 |
| 2.2.3.1 Delete                            | 11 |
| 2.2.3.2 Get                               | 11 |
| 2.2.3.3 List                              | 11 |
| 2.2.4 Media (Beta API)                    | 11 |
| 2.2.4.1 Upload                            |    |
| 2.3 GeminiChatRequest Features            | 12 |
| 2.3.1 Streaming Responses                 | 12 |
| 2.3.2 Adding Media Content to Requests    | 13 |
| 2.3.2.1 Utility Methods                   | 13 |
| 2.3.3 Function Calling                    | 14 |
| 2.3.4 JSON Response Mode                  | 16 |
| 2.4 Samples                               | 17 |
| 2.4.1 Mult-turn Chat                      | 17 |
| 2.4.2 Function Calling                    | 17 |
| 2.4.3 Streaming Generated Content         |    |
| 2.4.4 Question Answering                  |    |
| 2.4.5 Prompting with File API             |    |
| 2.4.6 JSON Response                       |    |

|   | 2.4.7 List and Get Model Metadata  | 17 |
|---|--|----|
|   | 2.4.8 Token Counting   | 17 |
| 3 | Namespace Index  | 19 |
|   | 3.1 Package List   | 19 |
| 4 | Hierarchical Index   | 21 |
|   | 4.1 Class Hierarchy  | 21 |
| 5 | Class Index  | 23 |
|   | 5.1 Class List   | 23 |
| 6 | Namespace Documentation  | 27 |
|   | 6.1 Uralstech Namespace Reference  | 27 |
|   | 6.2 Uralstech.UGemini Namespace Reference  | 27 |
|   | 6.2.1 Enumeration Type Documentation   | 28 |
|   | 6.2.1.1 GeminiContentType  | 28 |
|   | 6.3 Uralstech.UGemini.Exceptions Namespace Reference   | 28 |
|   | 6.4 Uralstech.UGemini.FileAPI Namespace Reference  | 29 |
|   | 6.4.1 Enumeration Type Documentation   | 29 |
|   | 6.4.1.1 GeminiFileState  | 29 |
|   | 6.5 Uralstech.UGemini.Models Namespace Reference   | 30 |
|   | 6.6 Uralstech.UGemini.Models.Content Namespace Reference   | 30 |
|   | 6.6.1 Enumeration Type Documentation   | 30 |
|   | 6.6.1.1 GeminiRole   | 30 |
|   | 6.7 Uralstech.UGemini.Models.Content.Attribution Namespace Reference                             | 31 |
|   | 6.8 Uralstech.UGemini.Models.Content.Citation Namespace Reference                                | 31 |
|   | 6.9 Uralstech.UGemini.Models.CountTokens Namespace Reference                                     | 31 |
|   | 6.10 Uralstech.UGemini.Models.Embedding Namespace Reference                                      | 32 |
|   | 6.10.1 Enumeration Type Documentation  | 32 |
|   | 6.10.1.1 GeminiEmbedTaskType   | 32 |
|   | 6.11 Uralstech.UGemini.Models.Generation Namespace Reference                                     | 32 |
|   | 6.11.1 Enumeration Type Documentation  | 33 |
|   | 6.11.1.1 GeminiResponseType  | 33 |
|   | 6.12 Uralstech.UGemini.Models.Generation.Candidate Namespace Reference                           | 33 |
|   | 6.12.1 Enumeration Type Documentation  | 33 |
|   | 6.12.1.1 GeminiFinishReason  | 33 |
|   | 6.13 Uralstech.UGemini.Models.Generation.Chat Namespace Reference                                | 34 |
|   | 6.14 Uralstech.UGemini.Models.Generation.QuestionAnswering Namespace Reference                   | 34 |
|   | 6.14.1 Enumeration Type Documentation  | 34 |
|   | 6.14.1.1 GeminiAnswerStyle   | 34 |
|   | 6.15 Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding Namespace Reference         | 35 |
|   | 6.16 Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever Namespace Reference | 35 |
|   | 6.16.1 Enumeration Type Documentation  | 35 |

| 6.16.1.1 GeminiMetadataConditionOperator  | 35 |
|---|----|
| 6.17 Uralstech.UGemini.Models.Generation.Safety Namespace Reference                             | 36 |
| 6.17.1 Enumeration Type Documentation   | 36 |
| 6.17.1.1 GeminiBlockReason  | 36 |
| 6.17.1.2 GeminiHarmProbability  | 37 |
| 6.17.1.3 GeminiSafetyHarmBlockThreshold   | 37 |
| 6.17.1.4 GeminiSafetyHarmCategory   | 37 |
| 6.18 Uralstech.UGemini.Models.Generation.Schema Namespace Reference                             | 38 |
| 6.18.1 Enumeration Type Documentation   | 38 |
| 6.18.1.1 GeminiSchemaDataFormat   | 38 |
| 6.18.1.2 GeminiSchemaDataType   | 39 |
| 6.19 Uralstech.UGemini.Models.Generation.Tools Namespace Reference                              | 39 |
| 6.20 Uralstech.UGemini.Models.Generation.Tools.CodeExecution Namespace Reference                | 39 |
| 6.20.1 Enumeration Type Documentation   | 40 |
| 6.20.1.1 GeminiCodeExecutionLanguage  | 40 |
| 6.20.1.2 GeminiCodeExecutionOutcome   | 40 |
| 6.21 Uralstech.UGemini.Models.Generation.Tools.Declaration Namespace Reference                  | 40 |
| 6.21.1 Enumeration Type Documentation   | 41 |
| 6.21.1.1 GeminiFunctionCallingMode  | 41 |
| 6.22 Uralstech.UGemini.Status Namespace Reference   | 41 |
| 6.23 Uralstech.UGemini.Utils Namespace Reference  | 41 |
| 6.24 Uralstech.UGemini.Utils.Singleton Namespace Reference                                      | 41 |
| 6.25 Uralstech.UGemini.Utils.Web Namespace Reference  | 41 |
| 7 Class Documentation   | 43 |
| 7.1 Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerRequest Class Reference . | 43 |
| 7.1.1 Detailed Description  | 44 |
| 7.1.2 Constructor & Destructor Documentation  | 44 |
| 7.1.2.1 GeminiAnswerRequest()   | 44 |
| 7.1.3 Member Function Documentation   | 44 |
| 7.1.3.1 GetEndpointUri()  | 44 |
| 7.1.3.2 GetUtf8EncodedData()  | 45 |
| 7.1.4 Member Data Documentation   | 45 |
| 7.1.4.1 Contents  | 45 |
| 7.1.4.2 InlinePassages  | 45 |
| 7.1.4.3 SafetySettings  | 46 |
| 7.1.4.4 SemanticRetriever   | 46 |
| 7.1.4.5 Temperature   | 46 |
| 7.1.5 Property Documentation  | 46 |
| 7.1.5.1 ContentType   | 46 |
| 7.2 Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerResponse Class Reference  | 47 |
| 7.2.1 Detailed Description  | 47 |

| 7.2.2 Member Data Documentation  | 47 |
|--|----|
| 7.2.2.1 Answer   | 47 |
| 7.2.2.2 AnswerableProbability  | 47 |
| 7.2.2.3 InputFeedback  | 48 |
| 7.3 Uralstech.UGemini.Models.Content.Attribution.GeminiAttributionSourceld Class Reference     | 48 |
| 7.3.1 Detailed Description   | 48 |
| 7.4 Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentRequest Class Reference          | 49 |
| 7.4.1 Detailed Description   | 50 |
| 7.4.2 Constructor & Destructor Documentation   | 50 |
| 7.4.2.1 GeminiBatchEmbedContentRequest()   | 50 |
| 7.4.3 Member Function Documentation  | 50 |
| 7.4.3.1 GetEndpointUri()   | 50 |
| 7.4.3.2 GetUtf8EncodedData()   | 50 |
| 7.4.4 Property Documentation   | 51 |
| 7.4.4.1 ContentType  | 51 |
| 7.5 Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentResponse Class Reference         | 51 |
| 7.5.1 Detailed Description   | 51 |
| 7.6 Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate Class Reference              | 51 |
| 7.6.1 Detailed Description   | 52 |
| 7.6.2 Member Data Documentation  | 52 |
| 7.6.2.1 CitationMetadata   | 52 |
| 7.6.2.2 GroundingAttributions  | 53 |
| 7.7 Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest Class Reference                 | 53 |
| 7.7.1 Detailed Description   | 54 |
| 7.7.2 Constructor & Destructor Documentation   | 54 |
| 7.7.2.1 GeminiChatRequest()  | 54 |
| 7.7.3 Member Data Documentation  | 55 |
| 7.7.3.1 CachedContent  | 55 |
| 7.7.3.2 Contents   | 55 |
| 7.7.3.3 SafetySettings   | 55 |
| 7.7.3.4 SystemInstruction  | 55 |
| 7.7.3.5 ToolConfig   | 56 |
| 7.7.3.6 Tools  | 56 |
| 7.8 Uralstech.UGemini.Models.Generation.Chat.GeminiChatResponse Class Reference                | 56 |
| 7.8.1 Detailed Description   | 57 |
| 7.9 Uralstech.UGemini.Models.Content.Citation.GeminiCitationMetadata Class Reference           | 57 |
| 7.9.1 Detailed Description   | 58 |
| 7.10 Uralstech.UGemini.Models.Content.Citation.GeminiCitationSource Class Reference            | 58 |
| 7.10.1 Detailed Description  | 58 |
| 7.10.2 Member Data Documentation   | 58 |
| 7.10.2.1 StartIndex  | 58 |
| 7.11 Uralstech UGemini Models Generation Tools Declaration GeminiCodeExecution Class Reference | 59 |

| 7.11.1 Detailed Description  |
|--|
| 7.12 Uralstech.UGemini.Models.Generation.Tools.CodeExecution.GeminiCodeExecutionResult Class Reference |
| 7.12.1 Detailed Description  |
| 7.13 Uralstech.UGemini.Models.Content.GeminiContent Class Reference                                    |
| 7.13.1 Detailed Description  |
| 7.13.2 Member Function Documentation   |
| 7.13.2.1 GetContent() [1/6]  |
| 7.13.2.2 GetContent() [2/6]  |
| 7.13.2.3 GetContent() [3/6]  |
| 7.13.2.4 GetContent() [4/6]  |
| 7.13.2.5 GetContent() [5/6]  |
| 7.13.2.6 GetContent() [6/6]  |
| 7.14 Uralstech.UGemini.Models.Content.GeminiContentBlob Class Reference                                |
| 7.14.1 Detailed Description  |
| 7.14.2 Member Function Documentation   |
| 7.14.2.1 GetContentBlob() [1/2]  |
| 7.14.2.2 GetContentBlob() [2/2]  |
| 7.14.3 Member Data Documentation   |
| 7.14.3.1 MimeType  |
| 7.15 Uralstech.UGemini.Models.Embedding.GeminiContentEmbedding Class Reference                         |
| 7.15.1 Detailed Description  |
| 7.16 Uralstech.UGemini.Models.Content.GeminiContentPart Class Reference                                |
| 7.16.1 Detailed Description  |
| 7.16.2 Member Function Documentation   |
| 7.16.2.1 IsAppendable()  |
| 7.16.3 Member Data Documentation   |
| 7.16.3.1 FileData  |
| 7.16.3.2 FunctionCall  |
| 7.16.3.3 FunctionResponse  |
| 7.17 Uralstech.UGemini.GeminiContentTypeExtensions Class Reference                                     |
| 7.17.1 Detailed Description  |
| 7.17.2 Member Function Documentation   |
| 7.17.2.1 ContentType()   |
| 7.17.2.2 MimeType()  |
| 7.18 Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest Class Reference                      |
| 7.18.1 Detailed Description  |
| 7.18.2 Constructor & Destructor Documentation  |
| 7.18.2.1 GeminiEmbedContentRequest()   |
| 7.18.3 Member Function Documentation   |
| 7.18.3.1 GetEndpointUri()  |
| 7.18.3.2 GetUtf8EncodedData()  |

| 7.18.4 Member Data Documentation  | 71 |
|---|----|
| 7.18.4.1 OutputDimensionality   | 71 |
| 7.18.4.2 TaskType   | 71 |
| 7.18.4.3 Title  | 71 |
| 7.18.5 Property Documentation   | 72 |
| 7.18.5.1 ContentType  | 72 |
| 7.19 Uralstech.UGemini.Models.Embedding.GeminiEmbedContentResponse Class Reference                                | 72 |
| 7.19.1 Detailed Description   | 72 |
| $7.20\ Ural steech. UGemini. Models. Generation. Tools. Code Execution. Gemini Executable Code\ Class\ Reference$ | 72 |
| 7.20.1 Detailed Description   | 73 |
| 7.21 Uralstech.UGemini.FileAPI.GeminiFile Class Reference   | 73 |
| 7.21.1 Detailed Description   | 73 |
| 7.21.2 Member Data Documentation  | 74 |
| 7.21.2.1 MimeType   | 74 |
| 7.22 Uralstech.UGemini.Models.Content.GeminiFileData Class Reference  | 74 |
| 7.22.1 Detailed Description   | 74 |
| 7.22.2 Constructor & Destructor Documentation   | 74 |
| 7.22.2.1 GeminiFileData()   | 74 |
| 7.23 Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest Class Reference  | 75 |
| 7.23.1 Detailed Description   | 75 |
| 7.23.2 Constructor & Destructor Documentation   | 76 |
| 7.23.2.1 GeminiFileDeleteRequest()  | 76 |
| 7.23.3 Member Function Documentation  | 76 |
| 7.23.3.1 GetEndpointUri()   | 76 |
| 7.24 Uralstech.UGemini.FileAPI.GeminiFileGetRequest Class Reference   | 76 |
| 7.24.1 Detailed Description   | 77 |
| 7.24.2 Constructor & Destructor Documentation   | 77 |
| 7.24.2.1 GeminiFileGetRequest()   | 77 |
| 7.24.3 Member Function Documentation  | 77 |
| 7.24.3.1 GetEndpointUri()   | 77 |
| 7.25 Uralstech.UGemini.FileAPI.GeminiFileListRequest Class Reference  | 78 |
| 7.25.1 Detailed Description   | 79 |
| 7.25.2 Constructor & Destructor Documentation   | 79 |
| 7.25.2.1 GeminiFileListRequest()  | 79 |
| 7.25.3 Member Function Documentation  | 79 |
| 7.25.3.1 GetEndpointUri()   | 79 |
| 7.26 Uralstech.UGemini.FileAPI.GeminiFileListResponse Class Reference   | 79 |
| 7.26.1 Detailed Description   | 80 |
| 7.27 Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData Class Reference   | 80 |
| 7.27.1 Detailed Description   | 80 |
| 7.27.2 Member Data Documentation  | 80 |
| 7.27.2.1 Name   | 80 |

| 7.28 Uralstech.UGemini.FileAPI.GeminiFileUploadRequest Class Reference  | 81 |
|---|----|
| 7.28.1 Detailed Description   | 82 |
| 7.28.2 Constructor & Destructor Documentation   | 82 |
| 7.28.2.1 GeminiFileUploadRequest() [1/2]  | 82 |
| 7.28.2.2 GeminiFileUploadRequest() [2/2]  | 82 |
| 7.28.3 Member Function Documentation  | 82 |
| 7.28.3.1 GetEndpointUri()   | 82 |
| 7.28.3.2 GetUtf8EncodedData()   | 83 |
| 7.29 Uralstech.UGemini.FileAPI.GeminiFileUploadResponse Class Reference                                       | 83 |
| 7.29.1 Detailed Description   | 83 |
| 7.30 Uralstech.UGemini.FileAPI.GeminiFileVideoMetaData Class Reference  | 84 |
| 7.30.1 Detailed Description   | 84 |
| 7.31 Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionCall Class Reference                             | 84 |
| 7.31.1 Detailed Description   | 84 |
| 7.31.2 Member Function Documentation  | 84 |
| 7.31.2.1 GetResponse()  | 84 |
| 7.31.3 Member Data Documentation  | 85 |
| 7.31.3.1 Arguments  | 85 |
| 7.32 Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiFunctionCallingConfiguration Class Reference | 85 |
| 7.32.1 Detailed Description   | 85 |
| 7.32.2 Member Data Documentation  | 86 |
| 7.32.2.1 AllowedFunctionNames   | 86 |
| 7.33 Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiFunctionDeclaration Class Reference          | 86 |
| 7.33.1 Detailed Description   | 86 |
| 7.34 Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionResponse Class Reference                         | 87 |
| 7.34.1 Detailed Description   | 87 |
| 7.35 Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionResponseContent Class Reference                  | 87 |
| 7.35.1 Detailed Description   | 87 |
| 7.36 Uralstech.UGemini.Models.Generation.GeminiGenerationConfiguration Class Reference                        | 88 |
| 7.36.1 Detailed Description   | 88 |
| 7.36.2 Member Data Documentation  | 88 |
| 7.36.2.1 CandidateCount   | 88 |
| 7.36.2.2 ResponseMimeType   | 88 |
| 7.36.2.3 ResponseSchema   | 89 |
| 7.36.2.4 TopK   | 89 |
| 7.36.2.5 TopP   | 89 |
| 7.37 Uralstech.UGemini.Models.Content.Attribution.GeminiGroundingAttribution Class Reference                  | 89 |
| 7.37.1 Detailed Description   | 90 |
| 7.38 Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.GeminiGroundingPassage                   |    |
| Class Reference   | 90 |
| 7.38.1 Detailed Description   | 90 |
| 7.39 Uralstech.UGemini.Models.Content.Attribution.GeminiGroundingPassageId Class Reference                    | 90 |

| 7.39.1 Detailed Description   | 91  |
|---|-----|
| 7.40 Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.GeminiGroundingPassages Class Reference            | 91  |
| 7.40.1 Detailed Description   | 91  |
| 7.41 Uralstech.UGemini.GeminiManager Class Reference  | 91  |
| 7.41.1 Detailed Description   |     |
| 7.41.2 Member Function Documentation  | 92  |
| 7.41.2.1 Request()  | 92  |
| 7.41.2.2 Request < TResponse >() [1/3]  | 92  |
| 7.41.2.3 Request< TResponse >() [2/3]   | 93  |
| 7.41.2.4 Request< TResponse >() [3/3]   | 93  |
| 7.41.2.5 SetApiKey()  | 94  |
| 7.41.2.6 StreamRequest< TResponse >()   | 94  |
| 7.42 Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiMetadata ← Condition Class Reference | 95  |
| 7.42.1 Detailed Description   |     |
| 7.42.2 Member Data Documentation  |     |
| 7.42.2.1 NumericValue   |     |
| 7.42.2.2 StringValue  |     |
| 7.43 Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiMetadata⇔                            |     |
| Filter Class Reference  | 96  |
| 7.43.1 Detailed Description   | 96  |
| 7.44 Uralstech.UGemini.Models.GeminiModel Class Reference   | 97  |
| 7.44.1 Detailed Description   | 99  |
| 7.44.2 Member Data Documentation  | 99  |
| 7.44.2.1 Aqa  | 99  |
| 7.44.2.2 DisplayName  | 99  |
| 7.44.2.3 Gemini1_0Pro   | 99  |
| 7.44.2.4 Gemini1_0ProVision   | 99  |
| 7.44.2.5 Gemini1_5Flash   | 100 |
| 7.44.2.6 Gemini1_5Pro   | 100 |
| 7.44.2.7 SupportedGenerationMethods   | 100 |
| 7.44.2.8 Temperature  | 100 |
| 7.44.2.9 TextEmbedding004   | 100 |
| 7.44.2.10 TopK  | 101 |
| 7.44.2.11 TopP  | 101 |
| 7.44.2.12 Version   | 101 |
| 7.45 Uralstech.UGemini.Models.GeminiModelGetRequest Class Reference   | 101 |
| 7.45.1 Detailed Description   | 102 |
| 7.45.2 Constructor & Destructor Documentation   | 102 |
| 7.45.2.1 GeminiModelGetRequest()  | 102 |
| 7.45.3 Member Function Documentation  | 102 |
| 7.45.3.1 GetEndpointUri()   | 102 |

| 7.46 Uralstech.UGemini.Models.GeminiModelld Class Reference   | 103 |
|---|-----|
| 7.46.1 Detailed Description   | 104 |
| 7.46.2 Constructor & Destructor Documentation   | 104 |
| 7.46.2.1 GeminiModelId() [1/2]  | 104 |
| 7.46.2.2 GeminiModelId() [2/2]  | 104 |
| 7.46.3 Member Data Documentation  | 104 |
| 7.46.3.1 Name   | 104 |
| 7.47 Uralstech.UGemini.Models.GeminiModelIdStringConverter Class Reference  | 105 |
| 7.47.1 Detailed Description   | 105 |
| 7.48 Uralstech.UGemini.Models.GeminiModelListRequest Class Reference  | 105 |
| 7.48.1 Detailed Description   | 106 |
| 7.48.2 Constructor & Destructor Documentation   | 106 |
| 7.48.2.1 GeminiModelListRequest()   | 106 |
| 7.48.3 Member Function Documentation  | 106 |
| 7.48.3.1 GetEndpointUri()   | 106 |
| 7.48.4 Member Data Documentation  | 107 |
| 7.48.4.1 MaxResponseModels  | 107 |
| 7.49 Uralstech.UGemini.Models.GeminiModelListResponse Class Reference   | 107 |
| 7.49.1 Detailed Description   | 107 |
| 7.50 Uralstech.UGemini.Models.Generation.Candidate.GeminiPromptFeedback Class Reference                                     | 108 |
| 7.50.1 Detailed Description   | 108 |
| 7.51 Uralstech.UGemini.Exceptions.GeminiRequestException Class Reference  | 108 |
| 7.51.1 Detailed Description   | 109 |
| 7.52 Uralstech.UGemini.GeminiRequestMetadata Class Reference  | 109 |
| 7.52.1 Detailed Description   | 109 |
| 7.53 Uralstech.UGemini.Models.Generation.Safety.GeminiSafetyRating Class Reference  | 109 |
| 7.53.1 Detailed Description   | 110 |
| 7.54 Uralstech.UGemini.Models.Generation.Safety.GeminiSafetySettings Class Reference  | 110 |
| 7.54.1 Detailed Description   | 110 |
| 7.55 Uralstech.UGemini.Models.Generation.Schema.GeminiSchema Class Reference  | 111 |
| 7.55.1 Detailed Description   | 111 |
| 7.55.2 Member Data Documentation  | 111 |
| 7.55.2.1 Enum   | 111 |
| $7.56\ Ural stech. UGemini. Models. Content. Attribution. Gemini Semantic Retriever Chunk\ Class\ Reference\ .\ .$          | 112 |
| 7.56.1 Detailed Description   | 112 |
| 7.57 Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemantic RetrieverConfig Class Reference | 112 |
| 7.57.1 Detailed Description   |     |
| 7.58 Uralstech.UGemini.Status.GeminiStatus Class Reference  |     |
| 7.58.1 Detailed Description   |     |
| 7.58.2 Member Data Documentation  |     |
| 7.58.2.1 Message  | 113 |

| 7.59 Uralstech.UGemini.Status.GeminiStatusDetails Class Reference  | 114 |
|--|-----|
| 7.59.1 Detailed Description  | 114 |
| 7.60 Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Class Reference                               | 114 |
| 7.60.1 Detailed Description  | 114 |
| 7.61 Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest Class Reference                        | 115 |
| 7.61.1 Detailed Description  | 116 |
| 7.61.2 Constructor & Destructor Documentation  | 116 |
| 7.61.2.1 GeminiTokenCountRequest()   | 116 |
| 7.61.3 Member Function Documentation   | 116 |
| 7.61.3.1 GetEndpointUri()  | 116 |
| 7.61.3.2 GetUtf8EncodedData()  | 116 |
| 7.61.4 Property Documentation  | 117 |
| 7.61.4.1 ContentType   | 117 |
| 7.62 Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse Class Reference                       | 117 |
| 7.62.1 Detailed Description  | 117 |
| 7.62.2 Member Data Documentation   | 117 |
| 7.62.2.1 TotalTokens   | 117 |
| 7.63 Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiTool Class Reference                    | 118 |
| 7.63.1 Detailed Description  | 118 |
| 7.63.2 Member Data Documentation   | 118 |
| 7.63.2.1 FunctionDeclarations  | 118 |
| 7.64 Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiToolConfiguration Class Reference       | 118 |
| 7.64.1 Detailed Description  | 119 |
| 7.64.2 Member Function Documentation   | 119 |
| 7.64.2.1 GetConfiguration()  | 119 |
| 7.65 Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMetadata Class Reference                   | 119 |
| 7.65.1 Detailed Description  | 120 |
| 7.65.2 Member Data Documentation   | 120 |
| 7.65.2.1 PromptTokenCount  | 120 |
| $7.66\ Ural steech. UGemini. IAppendable Data < T > Interface\ Template\ Reference\ .\ .\ .\ .\ .\ .\ .$ | 120 |
| 7.66.1 Detailed Description  | 120 |
| 7.66.2 Member Function Documentation   | 121 |
| 7.66.2.1 Append()  | 121 |
| 7.67 Uralstech.UGemini.IGeminiDeleteRequest Interface Reference  | 121 |
| 7.67.1 Detailed Description  | 122 |
| 7.68 Uralstech.UGemini.IGeminiGetRequest Interface Reference   | 122 |
| 7.68.1 Detailed Description  | 122 |
| 7.69 Uralstech.UGemini.IGeminiMultiPartPostRequest Interface Reference                                   | 122 |
| 7.69.1 Detailed Description  | 123 |
| 7.69.2 Member Function Documentation   | 123 |
| 7.69.2.1 GetUtf8EncodedData()  | 123 |
| 7.70 Uralstech.UGemini.IGeminiPostRequest Interface Reference  | 123 |

| 7.70.1 Detailed Description  | 124 |
|--|-----|
| 7.70.2 Member Function Documentation   | 124 |
| 7.70.2.1 GetUtf8EncodedData()  | 124 |
| 7.70.3 Property Documentation  | 124 |
| 7.70.3.1 ContentType   | 124 |
| 7.71 Uralstech.UGemini.IGeminiRequest Interface Reference  | 125 |
| 7.71.1 Detailed Description  | 125 |
| 7.71.2 Member Function Documentation   | 125 |
| 7.71.2.1 GetEndpointUri()  | 125 |
| $7.72\ Ural stech. UGemini. IGemini Streamable Post Request < TResponse > Interface\ Template\ Reference\ .$ | 126 |
| 7.72.1 Detailed Description  | 126 |
| 7.72.2 Member Function Documentation   | 127 |
| 7.72.2.1 ProcessStreamedData()   | 127 |
| 7.73 Uralstech.<br>UGemini.<br>Utils.Singleton.Singleton<br>< T > Class Template Reference                   | 127 |
| 7.73.1 Detailed Description  | 127 |
| 7.74 Uralstech.UGemini.Models.Content.UnityExtensions Class Reference  | 128 |
| 7.74.1 Detailed Description  | 128 |
| 7.74.2 Member Function Documentation   | 128 |
| 7.74.2.1 ToBase64JPEG()  | 128 |
| 7.74.2.2 ToBase64PNG()   | 128 |
| 7.74.2.3 ToBase64WAV()   | 129 |
| 7.74.2.4 ToWAV()   | 129 |
| 7.75 Uralstech.UGemini.Utils.Web.WebRequestHelper Class Reference  | 129 |
| 7.75.1 Detailed Description  | 130 |
| 7.75.2 Member Function Documentation   | 130 |
| 7.75.2.1 SendStreamingWebRequest()   | 130 |
| Index  | 131 |

# **Breaking Changes Notice**

UGemini v2.0.0 contains many breaking changes. To update your code to use UGemini 2.0.0, refer to the following list and table of changes:

# 1.0.1 General Changes

- EnumExtensions is now GeminiContentTypeExtensions.
- The fileId field in the constructors for GeminiFileDeleteRequest and GeminiFileGet ← Request has been renamed to fileNameOrId.
- All code previously marked as "deprecated" has been removed.

# 1.0.2 Namespace Changes

| Class                             | Old Namespace                        | New Namespace            | 1            |
|-----------------------------------|--------------------------------------|--------------------------|--------------|
| GeminiContent                     | Uralstech.UGemini                    | Uralstech.UGemini.Models | .Content     |
| GeminiContentBlob                 | Uralstech.UGemini                    | Uralstech.UGemini.Models | .Content     |
| GeminiContentPart                 | Uralstech.UGemini                    | Uralstech.UGemini.Models | .Content     |
| GeminiFileData                    | Uralstech.UGemini                    | Uralstech.UGemini.Models | .Content     |
| GeminiRole                        | Uralstech.UGemini                    | Uralstech.UGemini.Models | .Content     |
| UnityExtensions                   | Uralstech.UGemini                    | Uralstech.UGemini.Models | .Content     |
| GeminiAttribution↔<br>SourceId    | Uralstech.UGemini.Chat               | Uralstech.UGemini.Models | .Content.Att |
| GeminiGrounding↔<br>Attribution   | Uralstech.UGemini.Chat               | Uralstech.UGemini.Models | .Content.Att |
| GeminiGrounding↔<br>PassageId     | Uralstech.UGemini.Chat               | Uralstech.UGemini.Models | .Content.Att |
| GeminiSemantic↔<br>RetrieverChunk | Uralstech.UGemini.Chat               | Uralstech.UGemini.Models | .Content.Att |
| GeminiCitationMetadata            | Uralstech.UGemini.Chat               | Uralstech.UGemini.Models | .Content.Cit |
| GeminiCitationSource              | Uralstech.UGemini.Chat               | Uralstech.UGemini.Models | .Content.Cit |
| GeminiTokenCountRequest           | Uralstech.UGemini.↔<br>TokenCounting | Uralstech.UGemini.Models | .CountTokens |
| GeminiTokenCount↔<br>Response     | Uralstech.UGemini.↔<br>TokenCounting | Uralstech.UGemini.Models | .CountTokens |

| Class                    | Old Namespace              | New Namespace                           |
|--------------------------|----------------------------|---|
| GeminiBatchEmbed↔        | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Embedding   |
| ContentRequest           | Embedding                  |   |
| GeminiBatchEmbed↔        | Uralstech.UGemini.↔        | Uralstech.UGemini.Models.Embedding      |
| ContentResponse          | Embedding                  |   |
| GeminiContentEmbedding   | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Embedding   |
|                          | Embedding                  |   |
| GeminiEmbedContent↔      | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Embedding   |
| Request                  | Embedding                  |   |
| GeminiEmbedContent↔      | Uralstech.UGemini.↔        | Uralstech.UGemini.Models.Embedding      |
| Response                 | Embedding                  |   |
| GeminiEmbedTaskType      | Uralstech.UGemini.↔        | Uralstech.UGemini.Models.Embedding      |
|                          | Embedding                  |   |
| GeminiGeneration↔        | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation  |
| Configuration            |                            |   |
| GeminiResponseType       | Uralstech.UGemini.Chat     | Uralstech.UGemini.Models.Generation     |
| GeminiCandidate          | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiPromptFeedback     | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiUsageMetadata      | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiFinishReason       | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiChatRequest        | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiChatResponse       | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiAnswerRequest      | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Generation. |
| 1                        | Answer                     |   |
| GeminiAnswerResponse     | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Generation. |
|                          | Answer                     |   |
| GeminiAnswerStyle        | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Generation. |
|                          | Answer                     |   |
| GeminiGroundingPassage   | Uralstech.UGemini.↔        | Uralstech. UGemini. Models Generation.  |
|                          | Answer                     |   |
| GeminiGroundingPassages  | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Generation. |
| GeminiMetadataCondition  | Answer Uralstech.UGemini.↔ | Uralstech.UGemini.Models.Generation.    |
| Geniinimetadatacondition | Answer                     | Oralstech. Odemini. Models. Generation. |
| GeminiMetadataFilter     | Uralstech.UGemini.↔        | Uralstech.UGemini.Models.Generation.    |
| Jeminine educated free!  | Answer                     | orarseem.odemini.noders.deneracion.     |
| GeminiSemantic↔          | Uralstech.UGemini.↔        | Uralstech.UGemini.Models.Generation.    |
| RetrieverConfig          | Answer                     |   |
|                          | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Generation. |
| ConditionOperator        | Answer                     |   |
| GeminiSafetyRating       | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiSafetySettings     | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiBlockReason        | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiHarmProbability    | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| GeminiSafetyHarmBlock↔   | Uralstech.UGemini.Chat     | Uralstech.UGemini.Models.Generation.    |
| Threshold                |                            |   |
| GeminiSafetyHarm↔        | Uralstech.UGemini.Chat     | Uralstech. UGemini. Models. Generation. |
| Category                 |                            |   |
| GeminiSchema             | Uralstech.UGemini.↔        | Uralstech. UGemini. Models. Generation. |
|                          | Schema                     |   |
| GeminiSchemaDataFormat   | Uralstech.UGemini.↔        | Uralstech.UGemini.Models.Generation.    |
|                          | Schema                     |   |
| GeminiSchemaDataType     | Uralstech.UGemini.↔        | Uralstech. UGemini. Models Generation.  |
|                          | Schema                     |   |
| GeminiFunctionCall       | Uralstech.UGemini.Tools    | Uralstech. UGemini. Models. Generation. |

| Class                   | Old Namespace           | New Namespace            |              |
|-------------------------|-------------------------|--------------------------|--------------|
| GeminiFunctionResponse  | Uralstech.UGemini.Tools | Uralstech.UGemini.Models | .Generation. |
| GeminiFunction↔         | Uralstech.UGemini.Tools | Uralstech.UGemini.Models | .Generation. |
| ResponseContent         |                         |                          | 1            |
| GeminiFunctionCalling↔  | Uralstech.UGemini.↔     | Uralstech.UGemini.Models | .Generation. |
| Configuration           | Tools.Declaration       | !                        | 1            |
| GeminiFunction↔         | Uralstech.UGemini.↔     | Uralstech.UGemini.Models | .Generation. |
| Declaration             | Tools.Declaration       |                          | _            |
| GeminiTool              | Uralstech.UGemini.↔     | Uralstech.UGemini.Models | .Generation. |
|                         | Tools.Declaration       |                          | ]            |
| GeminiToolConfiguration | Uralstech.UGemini.↔     | Uralstech.UGemini.Models | .Generation. |
|                         | Tools.Declaration       |                          | ]            |
| GeminiFunctionCalling↔  | Uralstech.UGemini.↔     | Uralstech.UGemini.Models | .Generation. |
| Mode                    | Tools.Declaration       |                          | _            |
|                         |                         |                          | _            |

# **QuickStart and Documentation**

## 2.1 Basics

# 2.1.1 Setup

Add an instance of <code>Uralstech.UGemini.GeminiManager</code> to your scene, and set it up with your Gemini API key. You can get your API key from <code>here</code>.

### 2.1.2 GeminiManager

There are only three methods in GeminiManager:

| Method         | What it does                                   |  |
|----------------|--|--|
| SetApiKey      | Sets the Gemini API key through code           |  |
| Request        | Computes a request on the Gemini API           |  |
| StreamRequest* | Computes a streaming request on the Gemini API |  |

\*Requires Utilities.Async.

All computations on the Gemini API are done through <code>GeminiManager.Request</code>, <code>GeminiManager.⇔</code> <code>StreamRequest</code> and their variants.

In this page, the fields, properties and methods of each type will not be explained. Every type has been fully documented in code, so please check the code docstrings or reference documentation to learn more about each type.

#### 2.1.3 Beta API

GeminiManager supports both the v1 and v1beta Gemini API versions. As a lot of features are still unsupported in the main v1 API, you may need to use the Beta API. You can set the useBetaApi boolean parameter in the request's constructor to do so.

#### 2.1.4 Models

Uralstech. UGemini. Models. GeminiModel has four static model IDs:

- Gemini1\_5Flash
- Gemini1\_5Pro
- Geminil OPro
- Gemini1\_OProVision
  - Gemini 1.0 Pro Vision is deprecated. Use Use 1.5 Flash (Gemini1\_5Flash) or 1.5 Pro (Gemini1 ← \_5Pro) instead.
- TextEmbedding004
- Aqa

You can provide these to the model parameter in the constructors for model-related requests. UGemini can also implicitly convert string model IDs to GeminiModelId objects.

## 2.1.5 QuickStart: Multi-turn Chat Request

This is a simple script that maintains the user's chat history with Gemini.

Here, we simply have a list of GeminiContent objects, which tracks the messages of the conversation. Every time OnChat is called, the user's request and the model's reply are added the the list.

# 2.2 All Supported Endpoints

### 2.2.1 Models

The Models endpoint contains methods that allow you to access and inference Gemini models.

#### 2.2.1.1 Get

Gets information about a specific Model such as its version number, token limits, parameters and other metadata.

```
using Uralstech.UGemini;
using Uralstech.UGemini.Models;

private async Task<GeminiModel> RunGetModelRequest(string modelId)
{
    return await GeminiManager.Instance.Request<GeminiModel>(new GeminiModelGetRequest(modelId));
}
```

See GeminiModel and GeminiModelGetRequest for more details.

Newer models will not be recognized by the request if you're not using the Beta API.

#### 2.2.1.2 List

Lists the Models available through the Gemini API.

See GeminiModelListResponse and GeminiModelListRequest for more details.

Newer models will not be recognized by the request if you're not using the Beta API.

#### 2.2.1.3 EmbedContent

Generates a text embedding vector from the input Content using the specified Gemini Embedding model.

See GeminiEmbedContentResponse and GeminiEmbedContentRequest for more details.

#### 2.2.1.4 BatchEmbedContents

Generates multiple embedding vectors from the input Content which consists of a batch of strings represented as EmbedContentRequest objects.

```
using Uralstech.UGemini;
using Uralstech.UGemini.Models;
using Uralstech.UGemini.Models.Content;
using Uralstech.UGemini.Models.Embedding;
private async void RunBatchEmbedContentRequest()
    Debug.Log("Running batch embedding request.");
    \ensuremath{//} Make sure the model used for the batch request is the same for all included requests.
    GeminiBatchEmbedContentResponse response = await
   GeminiManager.Instance.Request<GeminiBatchEmbedContentResponse>(
        new GeminiBatchEmbedContentRequest (GeminiModel.TextEmbedding004)
            Requests = new GeminiEmbedContentRequest[]
                Content = GeminiContent.GetContent("Hello! How are you?"),
                },
                new GeminiEmbedContentRequest(GeminiModel.TextEmbedding004)
                    Content = GeminiContent.GetContent("Lorem ipsum dolor sit amet, consectetur adipiscing
      elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua."),
                }
    );
    foreach (GeminiContentEmbedding embedding in response.Embeddings)
        Debug.Log($"Embedding values: {string.Join(", ", embedding.Values)}");
```

See GeminiBatchEmbedContentResponse and GeminiBatchEmbedContentRequest for more details.

#### 2.2.1.5 GenerateContent

Generates a model response given an input GenerateContentRequest.

See GeminiChatResponse and GeminiChatRequest for more details.

#### 2.2.1.6 StreamGenerateContent

Generates a streamed response from the model given an input GenerateContentRequest.

```
using Uralstech.UGemini;
using Uralstech. UGemini. Models;
using Uralstech. UGemini. Models. Content;
using Uralstech. UGemini. Models. Generation. Chat;
private async void RunStreamingChatRequest()
    Debug.Log("Running streamed chat request.");
    GeminiChatResponse response = await GeminiManager.Instance.StreamRequest(
        new GeminiChatRequest (GeminiModel.Gemini1_5Flash)
            Contents = new GeminiContent[]
                GeminiContent.GetContent("What's up? Tell me a story about airplanes.")
            OnPartialResponseReceived = partialResponse =>
                if (partialResponse.Candidates == null || partialResponse.Candidates.Length < 0)
                    return Task.CompletedTask;
                Debug.Log($"Gemini's partial response: {partialResponse.Parts[^1].Text}");
                return Task.CompletedTask;
    );
    Debug.Log($"Gemini's final response: {response.Parts[^1].Text}");
```

See GeminiChatResponse and GeminiChatRequest for more details.

#### 2.2.1.7 GenerateAnswer (Beta API)

Generates a grounded answer from the model given an input GenerateAnswerRequest.

```
using Uralstech. UGemini;
using Uralstech. UGemini. Models;
using Uralstech. UGemini. Models. Content;
using Uralstech.UGemini.Models.Content.Attribution;
using Uralstech.UGemini.Models.Generation.QuestionAnswering;
using Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding;
private asvnc void RunOuestionAnsweringRequest()
     Debug.Log("Running Q/A request.");
     GeminiAnswerResponse response = await GeminiManager.Instance.Request<GeminiAnswerResponse>(
    new GeminiAnswerRequest(GeminiModel.Aqa)
              Contents = new GeminiContent[]
                   GeminiContent.GetContent("What is ezr<sup>2</sup>?")
              },
              InlinePassages = new GeminiGroundingPassages()
                   Passages = new GeminiGroundingPassage[]
                        new GeminiGroundingPassage()
                            Id = "ezrSquaredContext",
                            Content = GeminiContent.GetContent(
    "ezr² is an easy to learn and practical interpreted programming language for
       beginners and experts alike made in C\#." +
       "The latest version of \exp^2 RE has been released! \exp^2 RE, or REwrite, is the project's initiative to rewrite \exp^2. " +

"The latest working version of \exp^2 RE has many more features than the latest version of \exp^2! But, it is still in " +
       "development, has some essential features missing. Like the include expression, or any built-in object methods like " +
                                 "\"a string\".length or [\"a\", \"list\"].insert. If you want to help in testing
       it out and fixing bugs, feel free to " + " download the latest version of \exp^2 RE from the \exp^2 GitHub releases page and
       https://github.com/Uralstech/ezrSquared/releases."
                        }
                   }
```

```
AnswerStyle = GeminiAnswerStyle.Verbose,
}
);

if (response.Answer.Content != null)
    Debug.Log($"Gemini's answer: {response.Answer.Content.Parts[^1].Text}");

foreach (GeminiGroundingAttribution attribution in response.Answer.GroundingAttributions)
    Debug.Log($"Attribution ID: {attribution.SourceId.GroundingPassage.PassageId} | Content:
{attribution.Content.Parts[^1].Text}");
```

See GeminiAnswerResponse and GeminiAnswerRequest for more details.

#### 2.2.1.8 CountTokens

Runs a model's tokenizer on input Content and returns the token count.

See GeminiTokenCountResponse and GeminiTokenCountRequest for more details.

#### 2.2.2 TunedModels (Unstable)

The TunedModels endpoint contains methods that allow you to access and inference fine-tuned Gemini models.

#### 2.2.2.1 GenerateContent

Generates a model response given an input GenerateContentRequest.

See GeminiChatResponse and GeminiChatRequest for more details.

### 2.2.3 Files (Beta API)

The Gemini File API can be used to store data on the cloud for future prompting with the Gemini models.

#### 2.2.3.1 Delete

Deletes the File.

```
using Uralstech.UGemini;
using Uralstech.UGemini.FileAPI;

private async void RunDeleteFileRequest(string fileId)
{
    Debug.Log("Deleting file...");
    await GeminiManager.Instance.Request(new GeminiFileDeleteRequest(fileId));
    Debug.Log("File deleted.");
}
```

See GeminiFileDeleteRequest for more details.

#### 2.2.3.2 Get

Gets the metadata for the given File.

```
using Uralstech.UGemini;
using Uralstech.UGemini.FileAPI;

private async Task<GeminiFile> RunGetFileRequest(string fileId)
{
    return await GeminiManager.Instance.Request<GeminiFile>(new GeminiFileGetRequest(fileId));
}
```

See GeminiFile and GeminiFileGetRequest for more details.

#### 2.2.3.3 List

Lists the metadata for Files owned by the requesting project.

See GeminiFileListResponse and GeminiFileListRequest for more details.

## 2.2.4 Media (Beta API)

The Gemini File API can be used to store data on the cloud for future prompting with the Gemini models.

#### 2.2.4.1 Upload

#### Creates a File.

See GeminiFileUploadResponse and GeminiFileUploadRequest for more details.

# 2.3 GeminiChatRequest Features

#### 2.3.1 Streaming Responses

GeminiChatRequest allows you to stream Gemini's response in real-time. You can do so by using Gemini← Manager.StreamRequest and utilizing the callback in GeminiChatRequest.

You can even stream function calls! Check out the Streaming Generated Content sample included in the package.

```
using Uralstech.UGemini;
using Uralstech.UGemini.Models;
using Uralstech. UGemini. Models. Content;
using Uralstech. UGemini. Models. Generation. Chat;
[SerializeField] private Text _chatResponse;
private async Task<string> OnChat(string text)
    GeminiChatResponse response = await GeminiManager.Instance.StreamRequest(new
      GeminiChatRequest (GeminiModel.Gemini1_5Flash)
        Contents = new GeminiContent[]
            GeminiContent.GetContent(text, GeminiRole.User),
        },
        OnPartialResponseReceived = streamedResponse =>
            _chatResponse.text = streamedResponse.Parts[0].Text;
            return Task.CompletedTask;
    });
    return response.Parts[0].Text;
```

If you do not want to use the callback, you can let the <code>StreamRequest</code> task run in the background, and access the streamed data from the <code>GeminiChatRequest.StreamedResponse</code> property.

## 2.3.2 Adding Media Content to Requests

GeminiContent.Parts contains the actual contents of each chat request and response. You can add media content to the Parts array, but you must only have one type of data in each part, like one part of text, one part of an image, and so on. The following samples shows data being read from a file and into a GeminiContent object.

```
using Uralstech. UGemini;
using Uralstech. UGemini. Models. Content;
private async Task<GeminiContent> GetFileContent(string filePath, GeminiContentType contentType)
    bvte[] data;
        data = await File.ReadAllBytesAsync(filePath);
    catch (SystemException exception)
        Debug.LogError($"Failed to load file: {exception.Message}");
    return new GeminiContent()
        Parts = new GeminiContentPart[]
            new GeminiContentPart()
                Text = "What's in this file?"
            new GeminiContentPart()
                InlineData = new GeminiContentBlob()
                    MimeType = contentType,
                    Data = Convert. ToBase 64String (data)
    } ;
```

Now, the GeminiContent returned by the method can be fed into a chat request!

### 2.3.2.1 Utility Methods

GeminiContent and GeminiContentBlob also contain static utility methods to help create them from Unity types like AudioClip or Texture2D:

- GeminiContent.GetContent
  - Can convert string messages, Texture2D images, AudioClip\* audio and GeminiFile data to GeminiContent objects.
- GeminiContentBlob.GetContentBlob
  - Can convert Texture2D images and AudioClip\* audio to GeminiContentBlob objects.

```
*Requires Utilities. Encoding. Wav.
```

## 2.3.3 Function Calling

First, we have to setup our tools and define our function schemas.

```
using Uralstech.UGemini;
using Uralstech.UGemini.Models;
using Uralstech.UGemini.Models.Content;
using Uralstech. UGemini. Models. Generation. Chat;
using Uralstech. UGemini. Models. Generation. Schema;
using Uralstech. UGemini. Models. Generation. Tools;
using Uralstech. UGemini. Models. Generation. Tools. Declaration;
private GeminiTool _geminiFunctions = new GeminiTool()
    FunctionDeclarations = new GeminiFunctionDeclaration[]
         new GeminiFunctionDeclaration()
             Name = "printToConsole",
             Parameters = new GeminiSchema()
                 Type = GeminiSchemaDataType.Object,
                 Properties = new Dictionary<string, GeminiSchema>()
                          "text", new GeminiSchema()
                              Type = GeminiSchemaDataType.String,
                              Description = "The text to print. e.g. \"Hello, World!\"",
                              Nullable = false,
                     },
                 Required = new string[] { "text" },
        },
        new GeminiFunctionDeclaration()
             Name = "changeTextColor",
             Description = "Change the color of the text.",
             Parameters = new GeminiSchema()
                 Type = GeminiSchemaDataType.Object.
                 Properties = new Dictionary<string, GeminiSchema>()
                 {
                          "color", new GeminiSchema()
                              Type = GeminiSchemaDataType.String,
Description = "The color to set. e.g. \"BLUE\"",
                              Format = GeminiSchemaDataFormat.Enum,
                              Enum = new string[]
                                  "RED"
                                  "GREEN",
                                  "BLUE",
                                  "WHITE",
                              Nullable = false,
                     },
                 Required = new string[] { "color" },
        }
    },
```

For each function, we need a declaration with a name and description. The parameters are an object of type GeminiSchema, which defines the schema of each of the parameters. The type is of GeminiSchemaDatacouple object, and contains the dictionary of parameter schemas.

The keys of the dictionary should be the parameter name, and the values should be GeminiSchema objects which define the type, description, format, etc. of the parameter.

Finally, we have the Required property which tells Gemini which fields are absolutely required in each call. Now, we can move on to the chat.

```
[SerializeField] private Text _chatResponse;
private async Task<string> OnChat(string text)
```

```
List<GeminiContent> contents = new()
       GeminiContent.GetContent(text, GeminiRole.User),
    };
    GeminiChatResponse response;
    GeminiFunctionCall functionCall;
    string responseText = string.Empty;
       response = await GeminiManager.Instance.Request<GeminiChatResponse>(new
     GeminiChatRequest(GeminiModel.Gemini1_5Flash, true)
            Contents = contents.ToArray(),
           Tools = new GeminiTool[] { _geminiFunctions },
ToolConfig = GeminiToolConfiguration.GetConfiguration(GeminiFunctionCallingMode.Any),
       });
        // Don't forget to do this! If the function call is not added to the chat
        // history, Gemini will throw an error when receiving the response!
        contents.Add(response.Candidates[0].Content);
        responseText = Array.Find(response.Parts, part => !string.IsNullOrEmpty(part.Text))?.Text;
       GeminiContentPart[] allFunctionCalls = Array.FindAll(response.Parts, part => part.FunctionCall !=
        functionCall = null;
        for (int i = 0; i < allFunctionCalls.Length; i++)</pre>
            functionCall = allFunctionCalls[i].FunctionCall;
            JObject functionResponse = null;
            switch (functionCall.Name)
               case "printToConsole":
                   Debug.Log(functionCall.Arguments["text"].ToObject<string>());
                   break;
               case "changeTextColor":
                   if (!TryChangeTextColor(functionCall.Arguments["color"].ToObject<string>()))
                       functionResponse = new JObject()
                            ["result"] = "Unknown color."
                    }
                   break:
               default:
                    functionResponse = new JObject()
                        ["result"] = "Sorry, but that function does not exist."
                   };
                   break;
            ["result"] = "Completed executing function successfully."
            })));
    } while (functionCall != null);
    _chatResponse.text = responseText;
    return responseText;
private bool TryChangeTextColor(string color)
    switch (color)
       case "RED":
           _chatResponse.color = Color.red; break;
        case "GREEN":
           _chatResponse.color = Color.green; break;
       case "BLUE":
           _chatResponse.color = Color.blue; break;
        case "WHITE":
           _chatResponse.color = Color.white; break;
       default:
```

```
return false;
}
Debug.Log("Changed text color!");
return true;
```

Here, we are going through each response, checking if a function was called, and calling the requested function.

The response is a JSON object, which is optional, but it is recommended to include. Note the use of GeminiToolConfiguration.GetConfiguration, which is a utility method to create a Gemini← ToolConfiguration with the given GeminiFunctionCallingMode. Here, it is GeminiFunction← CallingMode.Any, which means Gemini will always call at least one function in each conversation.

After the function is called, we respond by adding the calls and responses to the history. We use the GetResponse utility method to get a GeminiFunctionResponse object with the response JSON.

Function calling is, as of writing, only available in the Beta API.

#### 2.3.4 JSON Response Mode

In JSON mode, Gemini will always respond in the specified JSON response schema.

```
using Uralstech. UGemini. Models;
using Uralstech.UGemini.Models.Content;
using Uralstech.UGemini.Models.Generation;
using Uralstech. UGemini. Models. Generation. Chat;
using Uralstech. UGemini. Models. Generation. Schema;
private async Task<string> OnChat(string text)
    // Note: It seems GeminiModel.Geminil_5Flash is not very good at JSON.
    GeminiChatResponse response = await GeminiManager.Instance.Request<GeminiChatResponse>(new
      GeminiChatRequest (GeminiModel.Gemini1_5Pro, true)
        Contents = new GeminiContent[]
            GeminiContent.GetContent(text, GeminiRole.User),
        SystemInstruction = GeminiContent.GetContent("You are a helpful math teacher who teacher their
      students mathematics in the most helpful way possible."),
        GenerationConfig = new GeminiGenerationConfiguration()
            ResponseMimeType = GeminiResponseType.Json,
            ResponseSchema = new GeminiSchema()
                Type = GeminiSchemaDataType.Array,
                Description = "A list of mathematical expressions.",
                Items = new GeminiSchema()
                    Type = GeminiSchemaDataType.Object.
                    Properties = new Dictionary<string, GeminiSchema>()
                             "expression", new GeminiSchema()
                                Type = GeminiSchemaDataType.String,
                        },
                             "explanation", new GeminiSchema()
                                Type = GeminiSchemaDataType.String,
                        },
                    Required = new string[] { "expression", "explanation", },
                },
            },
    return response.Parts[0].Text;
```

2.4 Samples 17

Here, we used a schema for an array of objects, which contain two parameters: <code>expression</code> and <code>explanation</code>. We have told Gemini to split the response into the parameters, where a mathematical expression and its explanation is given.

The GeminiSchema object is the same type used for function calling.

JSON mode is also only available in the Beta API.

# 2.4 Samples

For full-fledged examples of the features of this package, check out the samples included in the package:

#### 2.4.1 Mult-turn Chat

A sample scene showing a multi-turn chat system. GitHub Source

#### 2.4.2 Function Calling

A sample scene showing a function calling system. GitHub Source

## 2.4.3 Streaming Generated Content

A sample showing a system which streams Gemini's responses, including function calls. GitHub Source

### 2.4.4 Question Answering

A sample scene with a system where Gemini answers questions based only on the given context. GitHub Source

## 2.4.5 Prompting with File API

A sample scene with a system to create, delete, retrieve, list and prompt Gemini with files stored in the File/Media API endpoints. *GitHub Source* 

#### 2.4.6 JSON Response

A sample scene showing a system where Gemini responds in a specified JSON format. GitHub Source

## 2.4.7 List and Get Model Metadata

A sample scene with a system to list, get and chat with models using the models.get and models.list endpoints. **GitHub Source** 

#### 2.4.8 Token Counting

A sample scene showing a token counting system using the countTokens endpoint. GitHub Source

# **Namespace Index**

# 3.1 Package List

Here are the packages with brief descriptions (if available):

| Uralstech   |
|---|
| Uralstech.UGemini   |
| Uralstech.UGemini.Exceptions  |
| Uralstech.UGemini.FileAPI   |
| Uralstech.UGemini.Models  |
| Uralstech.UGemini.Models.Content  |
| Uralstech.UGemini.Models.Content.Attribution                            |
| Uralstech.UGemini.Models.Content.Citation                               |
| Uralstech.UGemini.Models.CountTokens                                    |
| Uralstech.UGemini.Models.Embedding                                      |
| Uralstech.UGemini.Models.Generation                                     |
| Uralstech.UGemini.Models.Generation.Candidate                           |
| Uralstech.UGemini.Models.Generation.Chat                                |
| Uralstech.UGemini.Models.Generation.QuestionAnswering                   |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding         |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever |
| Uralstech.UGemini.Models.Generation.Safety                              |
| Uralstech.UGemini.Models.Generation.Schema                              |
| Uralstech.UGemini.Models.Generation.Tools                               |
| Uralstech.UGemini.Models.Generation.Tools.CodeExecution                 |
| Uralstech.UGemini.Models.Generation.Tools.Declaration                   |
| Uralstech.UGemini.Status  |
| Uralstech.UGemini.Utils   |
| Uralstech.UGemini.Utils.Singleton                                       |
| Uralstech.UGemini.Utils.Web   |

20 Namespace Index

# **Hierarchical Index**

# 4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

| Exce |  |
|------|--|
|      |  |
|      |  |
|      |  |

| Uralstech.UGemini.Exceptions.GeminiRequestException   | 8 |
|---|---|
| Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerResponse  | 7 |
| Uralstech.UGemini.Models.Content.Attribution.GeminiAttributionSourceld  | 8 |
| Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentResponse  | 1 |
| Uralstech.UGemini.Models.Content.Citation.GeminiCitationMetadata  | 7 |
| Uralstech.UGemini.Models.Content.Citation.GeminiCitationSource  | 8 |
| Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiCodeExecution   | 9 |
| $Ural stech. UGemini. Models. Generation. Tools. Code Execution. Gemini Code Execution Result \\ \\ 5$  |   |
| Uralstech.UGemini.Models.Content.GeminiContentBlob  | 4 |
| Uralstech.UGemini.Models.Embedding.GeminiContentEmbedding   | 5 |
| Uralstech.UGemini.GeminiContentTypeExtensions   | 8 |
| Uralstech.UGemini.Models.Embedding.GeminiEmbedContentResponse   | 2 |
| Uralstech.UGemini.Models.Generation.Tools.CodeExecution.GeminiExecutableCode  | 2 |
| Uralstech.UGemini.FileAPI.GeminiFile  | 3 |
| Uralstech.UGemini.Models.Content.GeminiFileData   | 4 |
| Uralstech.UGemini.FileAPI.GeminiFileListResponse  | 9 |
| Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData  | 0 |
| Uralstech.UGemini.FileAPI.GeminiFileUploadResponse  | 3 |
| Uralstech.UGemini.FileAPI.GeminiFileVideoMetaData   | 4 |
| Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionCall  | 4 |
| $\label{thm:continuous} Ur alstech. UGemini. Models. Generation. Tools. Declaration. GeminiFunction Calling Configuration \\ \dots \\ \dots \\ 8$ | 5 |
| Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiFunctionDeclaration   | 6 |
| Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionResponse  | 7 |
| $\label{thm:constraint} Ur alstech. U Gemini. Models. Generation. Tools. GeminiFunction Response Content {\tt$                                    | 7 |
| Uralstech.UGemini.Models.Generation.GeminiGenerationConfiguration   |   |
| Uralstech.UGemini.Models.Content.Attribution.GeminiGroundingAttribution   | 9 |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.GeminiGroundingPassage 9  | 0 |
| Uralstech.UGemini.Models.Content.Attribution.GeminiGroundingPassageId   | 0 |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.GeminiGroundingPassages 9   | 1 |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiMetadataCondition 9   | 5 |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiMetadataFilter 9  | 6 |
| Uralstech.UGemini.Models.GeminiModelId  | 3 |
| Uralstech.UGemini.Models.GeminiModel  | 7 |
| Uralstech.UGemini.Models.GeminiModelListResponse  | 7 |

22 Hierarchical Index

| Uralstech.UGemini.GeminiRequestMetadata   | 109 |
|---|-----|
| Uralstech.UGemini.Models.Generation.Safety.GeminiSafetyRating   |     |
| Uralstech.UGemini.Models.Generation.Safety.GeminiSafetySettings   |     |
| Uralstech.UGemini.Models.Generation.Schema.GeminiSchema   |     |
| Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk   |     |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriev   |     |
| Config  |     |
| Uralstech.UGemini.Status.GeminiStatus   |     |
| Uralstech.UGemini.Status.GeminiStatusDetails  |     |
| Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse   |     |
| Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiToolConfiguration   |     |
| Uralstech.UGemini.IAppendableData< T >  |     |
| Uralstech.UGemini.IAppendableData< GeminiCandidate >  |     |
| Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate   |     |
| Uralstech.UGemini.IAppendableData< GeminiChatResponse >   |     |
|   |     |
| Uralstech.UGemini.Models.Generation.Chat.GeminiChatResponse   |     |
| Uralstech.UGemini.IAppendableData< GeminiContent >  |     |
| Uralstech.UGemini.Models.Content.GeminiContent  |     |
| $\label{eq:content} \mbox{Ural stech.} \mbox{UGemini.} \mbox{IAppendable Data} < \mbox{GeminiContentPart} > \dots $ |     |
| Uralstech.UGemini.Models.Content.GeminiContentPart  | 66  |
| Uralstech.UGemini.IAppendableData< GeminiPromptFeedback >   | 120 |
| Uralstech.UGemini.Models.Generation.Candidate.GeminiPromptFeedback  | 108 |
| Uralstech.UGemini.IAppendableData< GeminiUsageMetadata >  | 120 |
| Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMetadata   |     |
| Uralstech.UGemini.IGeminiRequest  |     |
| Uralstech.UGemini.IGeminiDeleteRequest  |     |
| Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest   |     |
| Uralstech.UGemini.IGeminiGetRequest   |     |
| Uralstech.UGemini.FileAPI.GeminiFileGetRequest  |     |
| Uralstech.UGemini.FileAPI.GeminiFileListRequest   |     |
| Uralstech.UGemini.Models.GeminiModelGetRequest  |     |
| Uralstech.UGemini.Models.GeminiModelListRequest   |     |
| Uralstech.UGemini.IGeminiMultiPartPostRequest   |     |
| Uralstech.UGemini.FileAPI.GeminiFileUploadRequest   |     |
| Uralstech.UGemini.IGeminiPostRequest  |     |
| Uralstech.UGemini.IGeminiStreamablePostRequest< TResponse >   |     |
| Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest  |     |
| Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentRequest   |     |
| Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest  |     |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerRequest   | 43  |
| Uralstech.UGemini.IGeminiStreamablePostRequest< GeminiChatResponse >  | 126 |
| Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest  |     |
| JsonConverter   |     |
| Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter   | 114 |
| Uralstech.UGemini.Models.GeminiModelIdStringConverter   |     |
| MonoBehaviour   |     |
| $\label{thm:continuity} \mbox{Ural stech. UGemini. Utils. Singleton. Singleton} < \mbox{T} > \dots $                | 127 |
| Uralstech.UGemini.Utils.Singleton.Singleton< GeminiManager >  |     |
| Uralstech.UGemini.GeminiManager   | 91  |
| Uralstech.UGemini.Models.Content.UnityExtensions  |     |
| Uralstech.UGemini.Utils.Web.WebRequestHelper  |     |

# **Chapter 5**

# **Class Index**

# 5.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

| Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerRequest                         |    |
|---|----|
| Generates a grounded answer from the model  | 43 |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerResponse                        |    |
| Response from the model for a grounded answer   | 47 |
| Uralstech.UGemini.Models.Content.Attribution.GeminiAttributionSourceId                            |    |
| Identifier for the source contributing to this attribution  | 48 |
| Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentRequest                                 |    |
| Generates multiple embeddings from the model given input text in a synchronous call $\dots$       | 49 |
| Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentResponse                                |    |
| The response to a GeminiBatchEmbedContentRequest  | 51 |
| Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate                                     |    |
| p <b>3</b>  | 51 |
| Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest  |    |
| Request to generate a response from the model   | 53 |
| Uralstech.UGemini.Models.Generation.Chat.GeminiChatResponse                                       |    |
| Response from the model supporting multiple candidates  | 56 |
| Uralstech.UGemini.Models.Content.Citation.GeminiCitationMetadata                                  |    |
| A collection of source attributions for a piece of content  | 57 |
| Uralstech.UGemini.Models.Content.Citation.GeminiCitationSource                                    |    |
| A citation to a source for a portion of a specific response                                       | 58 |
| Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiCodeExecution                         |    |
| Tool that executes code generated by the model, and automatically returns the result to the model | 59 |
| Uralstech.UGemini.Models.Generation.Tools.CodeExecution.GeminiCodeExecutionResult                 |    |
| Result of executing the GeminiExecutableCode  | 59 |
| Uralstech.UGemini.Models.Content.GeminiContent  |    |
| The base structured datatype containing multi-part content of a message                           | 60 |
| Uralstech.UGemini.Models.Content.GeminiContentBlob  |    |
| Raw media bytes   | 64 |
| Uralstech.UGemini.Models.Embedding.GeminiContentEmbedding   |    |
| A list of floats representing an embedding  | 65 |
| Uralstech.UGemini.Models.Content.GeminiContentPart  |    |
| A datatype containing media that is part of a multi-part Content message. Must only contain one   |    |
| field at a time   | 66 |
| Uralstech.UGemini.GeminiContentTypeExtensions   |    |
| Extensions for Enum type objects  | 68 |

24 Class Index

| Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest                                      |     |
|---|-----|
| Generates an embedding from the model   | 69  |
| Uralstech.UGemini.Models.Embedding.GeminiEmbedContentResponse                                     |     |
| The response to a GeminiEmbedContentRequest   | 72  |
| Uralstech.UGemini.Models.Generation.Tools.CodeExecution.GeminiExecutableCode                      |     |
| Code generated by the model that is meant to be executed, and the result returned to the model    | 72  |
| Uralstech.UGemini.FileAPI.GeminiFile  |     |
| Metadata for a file uploaded to the File API  | 73  |
| Uralstech.UGemini.Models.Content.GeminiFileData   |     |
| URI based data  | 74  |
| Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest   |     |
| Requests the deletion of a file   | 75  |
| Uralstech.UGemini.FileAPI.GeminiFileGetRequest  | . • |
| Requests metadata for an existing file. Return type is GeminiFile                                 | 76  |
| Uralstech.UGemini.FileAPI.GeminiFileListRequest   | , 0 |
| Requests metadata for all existing files. Return type is GeminiFileListResponse                   | 78  |
| Uralstech.UGemini.FileAPI.GeminiFileListResponse  | 70  |
| The response for a GeminiFileListRequest call   | 79  |
| Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData  | 79  |
| ·   | 00  |
| Metadata for a GeminiFile to be uploaded  | 80  |
| Uralstech.UGemini.FileAPI.GeminiFileUploadRequest   | 0.4 |
| Uploads a file to the Gemini File API. Response type is GeminiFileUploadResponse                  | 81  |
| Uralstech.UGemini.FileAPI.GeminiFileUploadResponse  | 00  |
| Response for a file upload request  | 83  |
| Uralstech.UGemini.FileAPI.GeminiFileVideoMetaData   |     |
| Metadata for a video GeminiFile   | 84  |
| Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionCall                                      |     |
| A predicted FunctionCall returned from the model that contains a string representing the          |     |
| FunctionDeclaration.name with the arguments and their values                                      | 84  |
| Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiFunctionCallingConfiguration          |     |
| Configuration for specifying function calling behavior  | 85  |
| Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiFunctionDeclaration                   |     |
| Structured representation of a function declaration as defined by the OpenAPI 3.03 specification. |     |
| Included in this declaration are the function name and parameters. This FunctionDeclaration is    |     |
| a   |     |
| representation of a block of code that can be used as a Tool by the model and executed by the     |     |
| client  | 86  |
| Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionResponse                                  |     |
| The result output from a GeminiFunctionCall that contains a string representing the               |     |
| Declaration.GeminiFunctionDeclaration.Name and a structured JSON object containing any            |     |
| output from the function is used as context to the model. This should contain the result of a     |     |
| GeminiFunctionCall made based on model prediction   | 87  |
| Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionResponseContent                           |     |
| The response of a Gemini function call. Based on the Protocol Buffer Struct type                  | 87  |
| Uralstech.UGemini.Models.Generation.GeminiGenerationConfiguration                                 |     |
| Configuration options for model generation and outputs. Not all parameters may be configurable    |     |
| for every model   | 88  |
| Uralstech.UGemini.Models.Content.Attribution.GeminiGroundingAttribution                           |     |
| Attribution for a source that contributed to an answer  | 89  |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.GeminiGroundingPassage            | -   |
| Passage included inline with a grounding configuration  | 90  |
| Uralstech.UGemini.Models.Content.Attribution.GeminiGroundingPassageId                             | •   |
| Identifier for a part within a GroundingPassage   | 90  |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.GeminiGroundingPassages           | 30  |
| A repeated list of passages   | 91  |
| Uralstech.UGemini.GeminiManager   | 31  |
| The class for accessing the Gemini API!   | 91  |
| THE 01035 101 000000011119 LITE CHEMINITAL IT   | 31  |

5.1 Class List 25

| Ur als tech. UGe mini. Models. Generation. Question Answering. Semantic Retriever. Gemini Metadata Conditional Conditions and the Conditional Conditions and the Conditional Conditional Conditions and the Conditional Cond   | ion  |
|--|--|
| Filter condition applicable to a single key  | 95   |
| Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiMetadataFilter   |  |
| User provided filter to limit retrieval based on Chunk or Document level metadata values   | 96   |
| Uralstech.UGemini.Models.GeminiModel   |  |
| Information about a Generative Language Model  | 97   |
| Uralstech.UGemini.Models.GeminiModelGetRequest   |  |
| Gets information about a specific model. Return type is GeminiModel  | 10   |
| Uralstech.UGemini.Models.GeminiModelId   |  |
| Information about the unique ID of a Generative Language Model   | 103  |
| Uralstech.UGemini.Models.GeminiModelldStringConverter  |  |
| Custom JSON converter to handle conversion of GeminiModelld to a single string value a   | and  |
| vice-versa   |  |
| Uralstech.UGemini.Models.GeminiModelListRequest  |  |
| Requests metadata for all existing models. Return type is GeminiModelListResponse  | 105  |
| Uralstech.UGemini.Models.GeminiModelListResponse   |  |
| The response for a GeminiModelListResponse call  | 107  |
| Uralstech.UGemini.Models.Generation.Candidate.GeminiPromptFeedback   |  |
| A set of the feedback metadata for the prompt specified in a generation request  | 108  |
| Uralstech.UGemini.Exceptions.GeminiRequestException  | 100  |
| Thrown when a Gemini API request fails   | 108  |
| Uralstech.UGemini.GeminiRequestMetadata  | 100  |
| Metadata about a computation request   | 109  |
| Uralstech.UGemini.Models.Generation.Safety.GeminiSafetyRating  | 108  |
|  | 100  |
| Safety rating for a piece of content   | 109  |
| Uralstech.UGemini.Models.Generation.Safety.GeminiSafetySettings  |  |
| Safety setting, affecting the safety-blocking behavior   | 110  |
| Uralstech.UGemini.Models.Generation.Schema.GeminiSchema  |  |
| The Schema object allows the definition of input and output data types. These types can  | be   |
| 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |  |
| objects, but also primitives and arrays. Represents a select subset of an OpenAPI 3.0 sche   | ema  |
| object   | ema  |
| object   | ema<br>11  |
| object   | ema<br>11 <sup>-</sup><br>uest   |
| object   | ema<br>11 <sup>-1</sup><br>uest<br>112   |
| object   | ema<br>11 <sup>-</sup><br>uest<br>112<br>verConfig   |
| object   | ema 11  uest 112  verConfig the  |
| object   | ema 11  uest 112  verConfig the  |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetrieverConfiguration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API Uralstech.UGemini.Status.GeminiStatus   | ema<br>11 <sup>-</sup><br>uest<br>11 <sup>2</sup><br>verConfig<br>the<br>11 <sup>2</sup>   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetrie | ema 11  uest 11  verConfig the 112   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetrie | ema 11  uest 11  verConfig the 112   |
| object  Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk  Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig  Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Configuration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API  Uralstech.UGemini.Status.GeminiStatus  The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC  Uralstech.UGemini.Status.GeminiStatusDetails   | ema 11  uest 11  verConfig the 11  ning 11   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetrie | ema 11  uest 11  verConfig the 11  ning 11   |
| object  Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk  Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig  Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Configuration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API  Uralstech.UGemini.Status.GeminiStatus  The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC  Uralstech.UGemini.Status.GeminiStatusDetails   | ema 11  uest 11  verConfig the 11  ning 11   |
| object   | ema 11 <sup>-1</sup> uest 11 <sup>2</sup> verConfig the 11 <sup>2</sup> ning 11 <sup>3</sup>   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.GeminisemanticRetrie | ema 11 <sup>-1</sup> uest 11 <sup>2</sup> verConfig the 11 <sup>2</sup> ning 11 <sup>3</sup>   |
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| object   | ema 11 <sup>-1</sup> uest 11 <sup>2</sup> verConfig the 11 <sup>2</sup> ning 11 <sup>2</sup> 11 <sup>4</sup>                           |
| object   | ema 11 <sup>-1</sup> uest 11 <sup>2</sup> verConfig the 11 <sup>2</sup> ning 11 <sup>4</sup> 11 <sup>4</sup>                           |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig  Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Configuration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API  Uralstech.UGemini.Status.GeminiStatus  The GeminiStatus.GeminiStatus  The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC  Uralstech.UGemini.Status.GeminiStatusDetails  An object containing fields of an arbitrary type  Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter  Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan  Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest  Request to count tokens in given content  Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse  A response from CountTokens.   | ema 11 <sup>-1</sup> uest 11 <sup>2</sup> verConfig the 11 <sup>2</sup> ning 11 <sup>4</sup> 11 <sup>4</sup>                           |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiTemanticRetriever.GeminiTemanticRetrie | ema 11  uest 112 verConfig the 112 114 115   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Gonfiguration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API Uralstech.UGemini.Status.GeminiStatus The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC Uralstech.UGemini.Status.GeminiStatusDetails An object containing fields of an arbitrary type Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest Request to count tokens in given content Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse A response from CountTokens Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiTool Tool details that the model may use to generate response  | ema 11  uest 112 verConfig the 112 114 115   |
| object   | ema 11 <sup>2</sup> uest 11 <sup>2</sup> verConfig the 11 <sup>2</sup> 11 <sup>4</sup> 11 <sup>4</sup> 11 <sup>5</sup> 11 <sup>8</sup> |
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| object   | ema 11  uest 11  verConfig the 11  114 114 115 118 118   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Configuration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API Uralstech.UGemini.Status.GeminiStatus The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC Uralstech.UGemini.Status.GeminiStatusDetails An object containing fields of an arbitrary type Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest Request to count tokens in given content Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse A response from CountTokens Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiTool Tool details that the model may use to generate response Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiToolConfiguration The Tool configuration containing parameters for specifying Tool use in the request Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMetadata Metadata on the generation request's token usage   | ema 11  uest 11  verConfig the 11  114 114 115 118 118   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Configuration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API Uralstech.UGemini.Status.GeminiStatus The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC Uralstech.UGemini.Status.GeminiStatusDetails An object containing fields of an arbitrary type Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest Request to count tokens in given content Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse A response from CountTokens Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiTool Tool details that the model may use to generate response Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiToolConfiguration The Tool configuration containing parameters for specifying Tool use in the request Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMetadata Metadata on the generation request's token usage Uralstech.UGemini.IAppendableData< T > Uralstech.UGemini.IAppendableData< T   | ema 11  uest 11  verConfig the 112  ning 114 115 118 118 118   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequising SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Configuration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API Uralstech.UGemini.Status.GeminiStatus The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC Uralstech.UGemini.Status.GeminiStatusDetails An object containing fields of an arbitrary type Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest Request to count tokens in given content Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse A response from CountTokens Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiTool Tool details that the model may use to generate response Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiToolConfiguration The Tool configuration containing parameters for specifying Tool use in the request Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMetadata Metadata on the generation request's token usage Uralstech.UGemini.IAppendableData< T > An interface for data that is to be appended to at runtime   | ema 11  uest 11  verConfig the 112  ning 114 115 118 118 118   |
| object Uralstech.UGemini.Models.Content.Attribution.GeminiSemanticRetrieverChunk Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequusing SemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiSemanticRetriever.Configuration for retrieving grounding content from a Corpus or Document created using Semantic Retriever API Uralstech.UGemini.Status.GeminiStatus The GeminiStatus type defines a logical error model that is suitable for different programmenvironments, including REST APIs and RPC APIs. It is used by gRPC Uralstech.UGemini.Status.GeminiStatusDetails An object containing fields of an arbitrary type Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest Request to count tokens in given content Uralstech.UGemini.Models.CountTokens.GeminiTokenCountResponse A response from CountTokens Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiTool Tool details that the model may use to generate response Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiToolConfiguration The Tool configuration containing parameters for specifying Tool use in the request Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMetadata Metadata on the generation request's token usage Uralstech.UGemini.IAppendableData< T > Uralstech.UGemini.IAppendableData< T   | ema 11  uest 11  verConfig the 11  11  11  11  11  12  12  |

26 Class Index

| Uralstech.UGemini.IGeminiGetRequest  |     |
|--|-----|
| All Gemini API GET requests must inherit from this interface                       | 122 |
| Uralstech.UGemini.IGeminiMultiPartPostRequest                                      |     |
| All Gemini API POST requests with multi-part data must inherit from this interface | 122 |
| Uralstech.UGemini.IGeminiPostRequest   |     |
| All Gemini API POST requests must inherit from this interface                      | 123 |
| Uralstech.UGemini.IGeminiRequest   |     |
| All Gemini API requests must inherit from this interface                           | 125 |
| Uralstech.UGemini.IGeminiStreamablePostRequest< TResponse >                        |     |
| All streamed Gemini API POST requests must inherit from this interface             | 126 |
| Uralstech.UGemini.Utils.Singleton.Singleton < T >                                  |     |
| Utility class to make inheriting types singletons                                  | 127 |
| Uralstech.UGemini.Models.Content.UnityExtensions                                   |     |
| Extensions for Unity types   | 128 |
| Uralstech.UGemini.Utils.Web.WebRequestHelper                                       |     |
| Extensions for the UnityWebRequest type  | 129 |

# **Chapter 6**

# **Namespace Documentation**

# 6.1 Uralstech Namespace Reference

# 6.2 Uralstech. UGemini Namespace Reference

### Classes

class GeminiContentTypeExtensions

Extensions for Enum type objects.

· class GeminiManager

The class for accessing the Gemini API!

class GeminiRequestMetadata

Metadata about a computation request.

interface IAppendableData

An interface for data that is to be appended to at runtime.

• interface IGeminiDeleteRequest

All Gemini API DELETE requests must inherit from this interface.

• interface IGeminiGetRequest

All Gemini API GET requests must inherit from this interface.

• interface IGeminiMultiPartPostRequest

All Gemini API POST requests with multi-part data must inherit from this interface.

interface IGeminiPostRequest

All Gemini API POST requests must inherit from this interface.

interface IGeminiRequest

All Gemini API requests must inherit from this interface.

interface IGeminiStreamablePostRequest

All streamed Gemini API POST requests must inherit from this interface.

### **Enumerations**

```
    enum GeminiContentType {
        ImagePNG, ImageJPEG, ImageHEIC, ImageHEIF,
        ImageWebP, AudioWAV, AudioMP3, AudioAIFF,
        AudioAAC, AudioOGG, AudioFLAC, VideoMP4,
        VideoMPEG, VideoMOV, VideoAVI, VideoXFLV,
        VideoMPG, VideoWebM, VideoWMV, Video3GPP,
        TextPlain, TextHTML, TextCSS, TextJavaScript,
        TextXTypeScript, TextCSV, TextMarkdown, TextXPython,
        TextXML, TextRTF, ApplicationXJavaScript, ApplicationXTypeScript,
        ApplicationXPython, ApplicationJSON, ApplicationRTF}
```

Enum for the types of content able to be fed to the Gemini API.

# 6.2.1 Enumeration Type Documentation

# 6.2.1.1 GeminiContentType

enum Uralstech.UGemini.GeminiContentType

Enum for the types of content able to be fed to the Gemini API.

### Enumerator

| ImagePNG               | A PNG image.                               |
|------------------------|--|
| ImageJPEG              | A JPEG image.                              |
| ImageHEIC              | A HEIC image.                              |
| ImageHEIF              | A HEIF image.                              |
| ImageWebP              | A WebP image.                              |
| AudioWAV               | WAV encoded audio.                         |
| AudioMP3               | MP3 encoded audio.                         |
| AudioAIFF              | AIFF encoded audio.                        |
| AudioAAC               | AAC encoded audio.                         |
| AudioOGG               | OGG encoded audio.                         |
| AudioFLAC              | FLAC encoded audio.                        |
| VideoMP4               | MP4 encoded video.                         |
| VideoMPEG              | MPEG encoded video.                        |
| VideoMOV               | MOV encoded video.                         |
| VideoAVI               | AVI encoded video.                         |
| VideoXFLV              | FLV encoded video.                         |
| VideoMPG               | MPG encoded video.                         |
| VideoWebM              | WebM encoded video.                        |
| VideoWMV               | WMV encoded video.                         |
| Video3GPP              | 3GPP encoded video.                        |
| TextPlain              | (File API) Plain text.                     |
| TextHTML               | (File API) HTML text.                      |
| TextCSS                | (File API) CSS text.                       |
| TextJavaScript         | (File API) JavaScript text.                |
| TextXTypeScript        | (File API) TypeScript text.                |
| TextCSV                | (File API) CSV text.                       |
| TextMarkdown           | (File API) Markdown text.                  |
| TextXPython            | (File API) Python text.                    |
| TextXML                | (File API) XML text.                       |
| TextRTF                | (File API) RTF text.                       |
| ApplicationXJavaScript | (File API) Application JavaScript content. |
| ApplicationXTypeScript | (File API) Application TypeScript content. |
| ApplicationXPython     | (File API) Application Python content.     |
| ApplicationJSON        | (File API) Application JSON content.       |
| ApplicationRTF         | (File API) Application RTF content.        |
|                        |  |

# 6.3 Uralstech. UGemini. Exceptions Namespace Reference

### Classes

• class GeminiRequestException

Thrown when a Gemini API request fails.

# 6.4 Uralstech. UGemini. File API Namespace Reference

### Classes

· class GeminiFile

Metadata for a file uploaded to the File API.

· class GeminiFileDeleteRequest

Requests the deletion of a file.

· class GeminiFileGetRequest

Requests metadata for an existing file. Return type is GeminiFile.

class GeminiFileListRequest

Requests metadata for all existing files. Return type is GeminiFileListResponse.

class GeminiFileListResponse

The response for a GeminiFileListRequest call.

· class GeminiFileUploadMetaData

Metadata for a GeminiFile to be uploaded.

· class GeminiFileUploadRequest

Uploads a file to the Gemini File API. Response type is GeminiFileUploadResponse.

· class GeminiFileUploadResponse

Response for a file upload request.

· class GeminiFileVideoMetaData

Metadata for a video GeminiFile.

· class GeminiTimeSpanJsonConverter

Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan.

### **Enumerations**

• enum GeminiFileState { Unspecified , Processing , Active , Failed }

States for the lifecycle of a File.

## 6.4.1 Enumeration Type Documentation

### 6.4.1.1 GeminiFileState

enum Uralstech.UGemini.FileAPI.GeminiFileState

States for the lifecycle of a File.

### Enumerator

| Unspecified | The default value. This value is used if the state is omitted. |
|-------------|--|
| Processing  | File is being processed and cannot be used for inference yet.  |
| Active      | File is processed and available for inference.                 |
| Failed      | File failed processing.  |

# 6.5 Uralstech. UGemini. Models Namespace Reference

### Classes

· class GeminiModel

Information about a Generative Language Model.

· class GeminiModelGetRequest

Gets information about a specific model. Return type is GeminiModel.

· class GeminiModelId

Information about the unique ID of a Generative Language Model.

· class GeminiModelIdStringConverter

Custom JSON converter to handle conversion of GeminiModelld to a single string value and vice-versa.

· class GeminiModelListRequest

Requests metadata for all existing models. Return type is GeminiModelListResponse.

· class GeminiModelListResponse

The response for a GeminiModelListResponse call.

# 6.6 Uralstech. UGemini. Models. Content Namespace Reference

### **Classes**

· class GeminiContent

The base structured datatype containing multi-part content of a message.

· class GeminiContentBlob

Raw media bytes.

class GeminiContentPart

A datatype containing media that is part of a multi-part Content message. Must only contain one field at a time.

· class GeminiFileData

URI based data.

class UnityExtensions

Extensions for Unity types.

### **Enumerations**

• enum GeminiRole { Unspecified , User , Assistant , ToolResponse }

The role of a Gemini content creator.

## 6.6.1 Enumeration Type Documentation

### 6.6.1.1 GeminiRole

enum Uralstech.UGemini.Models.Content.GeminiRole

The role of a Gemini content creator.

| Unspecified                                  | Don't use this.   |  |
|--|---|--|
| User   | The content was made by the user.                                   |  |
| Assistant The content was made by the model. |   |  |
| ToolResponse                                 | The content was made by a function. Only available in the beta API. |  |

# 6.7 Uralstech.UGemini.Models.Content.Attribution Namespace Reference

### Classes

· class GeminiAttributionSourceId

Identifier for the source contributing to this attribution.

· class GeminiGroundingAttribution

Attribution for a source that contributed to an answer.

· class GeminiGroundingPassageId

Identifier for a part within a GroundingPassage.

· class GeminiSemanticRetrieverChunk

Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequest using Semantic← RetrieverConfig.

# 6.8 Uralstech.UGemini.Models.Content.Citation Namespace Reference

### Classes

· class GeminiCitationMetadata

A collection of source attributions for a piece of content.

· class GeminiCitationSource

A citation to a source for a portion of a specific response.

# 6.9 Uralstech. UGemini. Models. Count Tokens Namespace Reference

### Classes

· class GeminiTokenCountRequest

Request to count tokens in given content.

• class GeminiTokenCountResponse

A response from CountTokens.

# 6.10 Uralstech. UGemini. Models. Embedding Namespace Reference

### Classes

· class GeminiBatchEmbedContentRequest

Generates multiple embeddings from the model given input text in a synchronous call.

· class GeminiBatchEmbedContentResponse

The response to a GeminiBatchEmbedContentRequest.

· class GeminiContentEmbedding

A list of floats representing an embedding.

class GeminiEmbedContentRequest

Generates an embedding from the model.

• class GeminiEmbedContentResponse

The response to a GeminiEmbedContentRequest.

### **Enumerations**

enum GeminiEmbedTaskType {
 Unspecified , RetrievalQuery , RetrievalDocument , SemanticSimilarity ,
 Classification , Clustering , QuestionAnswering , FactVerification }

Type of task for which the embedding will be used.

## 6.10.1 Enumeration Type Documentation

## 6.10.1.1 GeminiEmbedTaskType

 ${\tt enum~Uralstech.UGemini.Models.Embedding.GeminiEmbedTaskType}$ 

Type of task for which the embedding will be used.

### **Enumerator**

| Unspecified  | Unset value.   |
|--|--|
| RetrievalQuery Specifies the given text is a query in a search/retrieval set |  |
| RetrievalDocument  | Specifies the given text is a document from the corpus being searched. |
| SemanticSimilarity   | Specifies the given text will be used for STS.                         |
| Classification   | Specifies that the given text will be classified.                      |
| Clustering   | Specifies that the embeddings will be used for clustering.             |
| QuestionAnswering  | Specifies that the given text will be used for question answering.     |
| FactVerification   | Specifies that the given text will be used for fact verification.      |

# 6.11 Uralstech. UGemini. Models. Generation Namespace Reference

### **Classes**

· class GeminiGenerationConfiguration

Configuration options for model generation and outputs. Not all parameters may be configurable for every model.

### **Enumerations**

• enum GeminiResponseType { Unspecified , PlainText , Json }

The response type for Gemini model responses.

## 6.11.1 Enumeration Type Documentation

### 6.11.1.1 GeminiResponseType

enum Uralstech.UGemini.Models.Generation.GeminiResponseType

The response type for Gemini model responses.

### **Enumerator**

| Unspecified | Unspecified, don't use.             |
|-------------|-------------------------------------|
| PlainText   | (default) Plain text response type. |
| Json        | JSON response type.                 |

# 6.12 Uralstech.UGemini.Models.Generation.Candidate Namespace Reference

### Classes

· class GeminiCandidate

A response candidate generated from the model.

class GeminiPromptFeedback

A set of the feedback metadata for the prompt specified in a generation request.

class GeminiUsageMetadata

Metadata on the generation request's token usage.

### **Enumerations**

enum GeminiFinishReason {
 Unspecified , Stop , MaxTokens , Safety ,
 Recitation , Other , BlockList , ProhibitedContent ,
 SPII , MalformedFunctionCall }

Defines the reason why the model stopped generating tokens.

## 6.12.1 Enumeration Type Documentation

### 6.12.1.1 GeminiFinishReason

enum Uralstech. UGemini. Models. Generation. Candidate. GeminiFinish Reason

Defines the reason why the model stopped generating tokens.

| Unspecified           | Default value. This value is unused.  |
|-----------------------|---|
| Stop                  | Natural stop point of the model or provided stop sequence.                  |
| MaxTokens             | The maximum number of tokens as specified in the request was reached.       |
| Safety                | The candidate content was flagged for safety reasons.                       |
| Recitation            | The candidate content was flagged for recitation reasons.                   |
| Other                 | Unknown reason.   |
| BlockList             | Token generation stopped because the content contains forbidden terms.      |
| ProhibitedContent     | Token generation stopped for potentially containing prohibited content.     |
| SPII                  | Token generation stopped because the content potentially contains Sensitive |
|                       | Personally Identifiable Information (SPII).                                 |
| MalformedFunctionCall | The function call generated by the model is invalid.                        |

# 6.13 Uralstech.UGemini.Models.Generation.Chat Namespace Reference

### Classes

· class GeminiChatRequest

Request to generate a response from the model.

· class GeminiChatResponse

Response from the model supporting multiple candidates.

# 6.14 Uralstech.UGemini.Models.Generation.QuestionAnswering Namespace Reference

### **Classes**

· class GeminiAnswerRequest

Generates a grounded answer from the model.

• class GeminiAnswerResponse

Response from the model for a grounded answer.

### **Enumerations**

enum GeminiAnswerStyle { Unspecified , Abstractive , Extractive , Verbose }
 Style for grounded answers.

# 6.14.1 Enumeration Type Documentation

### 6.14.1.1 GeminiAnswerStyle

enum Uralstech. UGemini. Models. Generation. Question Answering. Gemini Answer Style

Style for grounded answers.

| Unspecified  | Unspecified answer style.        |
|--|----------------------------------|
| Abstractive  | Succint but abstract style.      |
| Extractive   | Very brief and extractive style. |
| Verbose Verbose style including extra details. The response may be formatted as a sentence, paragraph, multiple paragraphs, or bullet points, etc. |                                  |

# 6.15 Uralstech.UGemini.Models.Generation.QuestionAnswering. Grounding Namespace Reference

### **Classes**

· class GeminiGroundingPassage

Passage included inline with a grounding configuration.

· class GeminiGroundingPassages

A repeated list of passages.

# 6.16 Uralstech.UGemini.Models.Generation.QuestionAnswering. SemanticRetriever Namespace Reference

### **Classes**

• class GeminiMetadataCondition

Filter condition applicable to a single key.

· class GeminiMetadataFilter

User provided filter to limit retrieval based on Chunk or Document level metadata values.

· class GeminiSemanticRetrieverConfig

Configuration for retrieving grounding content from a Corpus or Document created using the Semantic Retriever API.

### **Enumerations**

enum GeminiMetadataConditionOperator {
 Unspecified , LessThan , LessThanOrEqual , Equal ,
 GreaterThanOrEqual , GreaterThan , NotEqual , Includes ,
 Excludes }

Defines the valid operators that can be applied to a key-value pair.

# 6.16.1 Enumeration Type Documentation

### 6.16.1.1 GeminiMetadataConditionOperator

enum Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiMetadataConditionOperator

Defines the valid operators that can be applied to a key-value pair.

| Unspecified        | The default value. This value is unused.   |
|--------------------|--|
| LessThan           | Supported by numeric.  |
| LessThanOrEqual    | Supported by numeric.  |
| Equal              | Supported by numeric and string.   |
| GreaterThanOrEqual | Supported by numeric.  |
| GreaterThan        | Supported by numeric.  |
| NotEqual           | Supported by numeric and string.   |
| Includes           | Supported by string only when CustomMetadata value type for the given key has a stringListValue. |
| Excludes           | Supported by string only when CustomMetadata value type for the given key has a stringListValue. |

# 6.17 Uralstech.UGemini.Models.Generation.Safety Namespace Reference

### Classes

· class GeminiSafetyRating

Safety rating for a piece of content.

· class GeminiSafetySettings

Safety setting, affecting the safety-blocking behavior.

### **Enumerations**

```
    enum GeminiBlockReason {
        Unspecified , Safety , Other , BlockList ,
        ProhibitedContent }
```

Specifies what was the reason why prompt was blocked.

enum GeminiHarmProbability {
 Unspecified , Negligible , Low , Medium ,
 High }

The probability that a piece of content is harmful.

enum GeminiSafetyHarmBlockThreshold {
 Unspecified , LowAndAbove , MediumAndAbove , OnlyHigh ,
 None }

Block at and beyond a specified harm probability.

enum GeminiSafetyHarmCategory {
 Unspecified , Derogatory , Toxicity , Violence ,
 Sexual , Medical , Dangerous , Harassment ,
 HateSpeech , SexuallyExplicit , DangerousContent }

The category of a rating.

## 6.17.1 Enumeration Type Documentation

### 6.17.1.1 GeminiBlockReason

enum Uralstech.UGemini.Models.Generation.Safety.GeminiBlockReason

Specifies what was the reason why prompt was blocked.

| Unspecified       | Default value. This value is unused.   |
|-------------------|--|
| Safety            | Prompt was blocked due to safety reasons. You can inspect                              |
|                   | Candidate.GeminiPromptFeedback.SafetyRatings to understand which safety category       |
|                   | blocked it.  |
| Other             | Prompt was blocked due to unknown reasons.   |
| BlockList         | Prompt was blocked due to the terms which are included from the terminology blocklist. |
| ProhibitedContent | Prompt was blocked due to prohibited content.  |

## 6.17.1.2 GeminiHarmProbability

enum Uralstech.UGemini.Models.Generation.Safety.GeminiHarmProbability

The probability that a piece of content is harmful.

The classification system gives the probability of the content being unsafe. This does not indicate the severity of harm for a piece of content.

### Enumerator

| Unspecified | Probability is unspecified.                      |
|-------------|--|
| Negligible  | Content has a negligible chance of being unsafe. |
| Low         | Content has a low chance of being unsafe.        |
| Medium      | Content has a medium chance of being unsafe.     |
| High        | Content has a high chance of being unsafe.       |

# 6.17.1.3 GeminiSafetyHarmBlockThreshold

 $enum\ Uralstech. UGemini. Models. Generation. Safety. Gemini Safety Harm Block Threshold$ 

Block at and beyond a specified harm probability.

### Enumerator

| Unspecified    | Threshold is unspecified.   |
|----------------|---|
| LowAndAbove    | Content with GeminiHarmProbability.Negligible will be allowed.  |
| MediumAndAbove | Content with GeminiHarmProbability.Negligible and GeminiHarmProbability.Low will be allowed.                                |
| OnlyHigh       | Content with GeminiHarmProbability.Negligible, GeminiHarmProbability.Low, and GeminiHarmProbability.Medium will be allowed. |
| None           | All content will be allowed.  |

### 6.17.1.4 GeminiSafetyHarmCategory

 $\textbf{enum} \ \ \textbf{Uralstech.} \textbf{UGemini.} \textbf{Models.} \textbf{Generation.} \textbf{Safety.} \textbf{GeminiSafetyHarmCategory}$ 

The category of a rating.

| Unspecified      | Category is unspecified.  |
|------------------|---|
| Derogatory       | Negative or harmful comments targeting identity and/or protected attribute.       |
| Toxicity         | Content that is rude, disrespectful, or profane.                                  |
| Violence         | Describes scenarios depicting violence against an individual or group, or general |
|                  | descriptions of gore.   |
| Sexual           | Contains references to sexual acts or other lewd content.                         |
| Medical          | Promotes unchecked medical advice.  |
| Dangerous        | Dangerous content that promotes, facilitates, or encourages harmful acts.         |
| Harassment       | Harasment content.  |
| HateSpeech       | Hate speech and content.  |
| SexuallyExplicit | Sexually explicit content.  |
| DangerousContent | Dangerous content.  |

# 6.18 Uralstech.UGemini.Models.Generation.Schema Namespace Reference

### Classes

· class GeminiSchema

The Schema object allows the definition of input and output data types. These types can be objects, but also primitives and arrays. Represents a select subset of an OpenAPI 3.0 schema object.

### **Enumerations**

enum GeminiSchemaDataFormat {
 Unspecified , Float , Double , Int ,
 Long , Enum , Base64Bytes , Binary ,
 Date , DateTime }

Defines the format of schema data.

enum GeminiSchemaDataType {
 Unspecified , String , Float , Integer ,
 Boolean , Array , Object }

Contains the list of OpenAPI data types as defined by the OpenAPI Specification.

# 6.18.1 Enumeration Type Documentation

### 6.18.1.1 GeminiSchemaDataFormat

enum Uralstech.UGemini.Models.Generation.Schema.GeminiSchemaDataFormat

Defines the format of schema data.

## Enumerator

| Unspecified | Unspecified, don't use. |
|-------------|-------------------------|
| Float       | Equivalent to float.    |

| Double      | Equivalent to double.                                    |  |
|-------------|--|--|
| Int         | Equivalent to int.                                       |  |
| Long        | Equivalent to long.                                      |  |
| Enum        | A string enum value.                                     |  |
| Base64Bytes | A base64 encoded string of bytes.                        |  |
| Binary      | A string of "any sequence of octets".                    |  |
| Date        | Date string as defined by full-date - RFC 3339.          |  |
| DateTime    | Date and time string as defined by date-time - RFC 3339. |  |

### 6.18.1.2 GeminiSchemaDataType

enum Uralstech.UGemini.Models.Generation.Schema.GeminiSchemaDataType

Contains the list of OpenAPI data types as defined by the OpenAPI Specification.

### **Enumerator**

| Unspecified | Not specified, should not be used. |
|-------------|------------------------------------|
| String      | String type.                       |
| Float       | Number/Float type.                 |
| Integer     | Integer type.                      |
| Boolean     | Boolean type.                      |
| Array       | Array type.                        |
| Object      | Object type.                       |

# 6.19 Uralstech. UGemini. Models. Generation. Tools Namespace Reference

### Classes

· class GeminiFunctionCall

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaration.name with the arguments and their values.

class GeminiFunctionResponse

The result output from a GeminiFunctionCall that contains a string representing the Declaration.GeminiFunctionDeclaration.Name and a structured JSON object containing any output from the function is used as context to the model. This should contain the result of a GeminiFunctionCall made based on model prediction.

class GeminiFunctionResponseContent

The response of a Gemini function call. Based on the Protocol Buffer Struct type.

# 6.20 Uralstech.UGemini.Models.Generation.Tools.CodeExecution Namespace Reference

### Classes

· class GeminiCodeExecutionResult

Result of executing the GeminiExecutableCode.

· class GeminiExecutableCode

Code generated by the model that is meant to be executed, and the result returned to the model.

### **Enumerations**

• enum GeminiCodeExecutionLanguage { Unspecified , Python }

Supported programming languages for the generated code.

• enum GeminiCodeExecutionOutcome { Unspecified , Ok , Failed , DeadlineExceeded }

Enumeration of possible outcomes of the code execution.

# 6.20.1 Enumeration Type Documentation

### 6.20.1.1 GeminiCodeExecutionLanguage

enum Uralstech.UGemini.Models.Generation.Tools.CodeExecution.GeminiCodeExecutionLanguage

Supported programming languages for the generated code.

#### Enumerator

| Unspecified | Unspecified language. This value should not be used. |
|-------------|--|
| Python      | Python >= 3.10, with numpy and simpy available.      |

### 6.20.1.2 GeminiCodeExecutionOutcome

enum Uralstech. UGemini. Models. Generation. Tools. CodeExecution. GeminiCodeExecutionOutcome

Enumeration of possible outcomes of the code execution.

### Enumerator

| Unspecified      | Unspecified status. This value should not be used.  |
|------------------|---|
| Ok               | Code execution completed successfully.  |
| Failed           | Code execution finished but with a failure. stderr should contain the reason.                         |
| DeadlineExceeded | Code execution ran for too long, and was cancelled. There may or may not be a partial output present. |

# 6.21 Uralstech.UGemini.Models.Generation.Tools.Declaration Namespace Reference

### **Classes**

• class GeminiCodeExecution

Tool that executes code generated by the model, and automatically returns the result to the model.

· class GeminiFunctionCallingConfiguration

Configuration for specifying function calling behavior.

· class GeminiFunctionDeclaration

Structured representation of a function declaration as defined by the OpenAPI 3.03 specification. Included in this declaration are the function name and parameters. This FunctionDeclaration is a representation of a block of code that can be used as a Tool by the model and executed by the client.

· class GeminiTool

Tool details that the model may use to generate response.

· class GeminiToolConfiguration

The Tool configuration containing parameters for specifying Tool use in the request.

### **Enumerations**

enum GeminiFunctionCallingMode { Unspecified , Auto , Any , None }
 Defines the execution behavior for function calling by defining the execution mode.

## 6.21.1 Enumeration Type Documentation

### 6.21.1.1 GeminiFunctionCallingMode

 $\textbf{enum} \ \ \textbf{Uralstech}. \textbf{UGemini.Models}. \textbf{Generation}. \textbf{Tools}. \textbf{Declaration}. \textbf{GeminiFunctionCallingModels}. \textbf{Models}. \textbf$ 

Defines the execution behavior for function calling by defining the execution mode.

#### Enumerator

| Unspecified | Unspecified function calling mode. This value should not be used.                                       |
|-------------|---|
| Auto        | Default model behavior, model decides to predict either a function call or a natural language response. |
|             | response.   |
| Any         | Model is constrained to always predicting a function call only. If                                      |
|             | GeminiFunctionCallingConfiguration.AllowedFunctionNames is set, the predicted function call             |
|             | will be limited to any one of GeminiFunctionCallingConfiguration.AllowedFunctionNames, else             |
|             | the predicted function call will be any one of the provided GeminiTool.FunctionDeclarations.            |
| None        | Model will not predict any function call. Model behavior is same as when not passing any                |
|             | function declarations.  |

# 6.22 Uralstech. UGemini. Status Namespace Reference

### Classes

· class GeminiStatus

The GeminiStatus type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by gRPC.

class GeminiStatusDetails

An object containing fields of an arbitrary type.

# 6.23 Uralstech.UGemini.Utils Namespace Reference

# 6.24 Uralstech. UGemini. Utils. Singleton Namespace Reference

### Classes

class Singleton

Utility class to make inheriting types singletons.

# 6.25 Uralstech.UGemini.Utils.Web Namespace Reference

### Classes

· class WebRequestHelper

Extensions for the UnityWebRequest type.

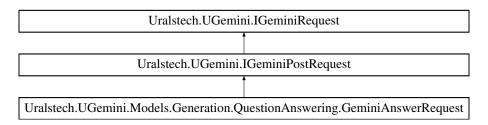
# **Chapter 7**

# **Class Documentation**

# 7.1 Uralstech.UGemini.Models.Generation.QuestionAnswering.Gemini AnswerRequest Class Reference

Generates a grounded answer from the model.

 $Inheritance\ diagram\ for\ Ural stech. UGemini. Models. Generation. Question Answering. Gemini Answer Request:$ 



### **Public Member Functions**

string GetEndpointUri (GeminiRequestMetadata metadata)
 Gets the URI to the API endpoint.

### **Parameters**

metadata The metadata of the request to be carried out on the URI.

Returns

The URI.

GeminiAnswerRequest (GeminiModelId model, bool useBetaApi=true)

Creates a new GeminiAnswerRequest.

• string GetUtf8EncodedData ()

Converts the request object to a UTF-8 encoded string. Returns

The string data.

### **Public Attributes**

· GeminiContent[] Contents

The content of the current conversation with the model.

GeminiAnswerStyle AnswerStyle

Style in which answers should be returned.

• GeminiSafetySettings[] SafetySettings = null

A list of unique GeminiSafetySettings instances for blocking unsafe content.

• GeminiGroundingPassages InlinePassages = null

Passages provided inline with the request.

GeminiSemanticRetrieverConfig SemanticRetriever = null

Content retrieved from resources created via the Semantic Retriever API.

• float Temperature = -1f

Controls the randomness of the output.

GeminiModelId Model

The model to use.

· string ApiVersion

The API version to use.

### **Properties**

• string ContentType [get]

The MIME type of the request content.

## Properties inherited from Uralstech.UGemini.IGeminiPostRequest

## 7.1.1 Detailed Description

Generates a grounded answer from the model.

### 7.1.2 Constructor & Destructor Documentation

### 7.1.2.1 GeminiAnswerRequest()

Creates a new GeminiAnswerRequest.

### **Parameters**

| model      | The model to use.                    |
|------------|--------------------------------------|
| useBetaApi | Should the request use the Beta API? |

### 7.1.3 Member Function Documentation

## 7.1.3.1 GetEndpointUri()

 $string \ Ural stech. UGemini. Models. Generation. Question Answering. Gemini Answer Request. Get Endpoint \\ \leftarrow Uri \ ($ 

GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

### **Parameters**

### Returns

The URI.

Implements Uralstech. UGemini. IGemini Request.

### 7.1.3.2 GetUtf8EncodedData()

 $string \ Ural stech. UGemini. Models. Generation. Question Answering. Gemini Answer Request. Get Utf 8 \hookleftarrow Encoded Data ()$ 

Converts the request object to a UTF-8 encoded string.

### Returns

The string data.

Implements Uralstech.UGemini.IGeminiPostRequest.

### 7.1.4 Member Data Documentation

### 7.1.4.1 Contents

 ${\tt GeminiContent} \hbox{ [] Uralstech.} {\tt UGemini.Models.Generation.} {\tt QuestionAnswering.GeminiAnswerRequest.} \leftarrow {\tt Contents}$ 

The content of the current conversation with the model.

For single-turn queries, this is a single instance. For multi-turn queries, this is a repeated field that contains conversation history + latest request.

generateAnswer currently only supports queries in English.

### 7.1.4.2 InlinePassages

 $\label{thm:condingPassages} $$\operatorname{Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswer} \leftarrow \\ \operatorname{Request.InlinePassages} = \operatorname{null}$ 

Passages provided inline with the request.

This or SemanticRetriever are must be provided at a time.

### 7.1.4.3 SafetySettings

GeminiSafetySettings [] Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswer↔
Request.SafetySettings = null

A list of unique GeminiSafetySettings instances for blocking unsafe content.

This will be enforced on Contents and GeminiAnswerResponse.Answer.

There should not be more than one setting for each GeminiSafetyHarmCategory type. The API will block any contents and responses that fail to meet the thresholds set by these settings. This list overrides the default settings for each GeminiSafetyHarmCategory specified in the SafetySettings. If there is no GeminiSafetySettings for a given GeminiSafetyHarmCategory provided in the list, the API will use the default safety setting for that category. Harm categories GeminiSafetyHarmCategory.HateSpeech, GeminiSafetyHarmCategory.SexuallyExplicit, GeminiSafetyHarmCategory.DangerousContent and GeminiSafetyHarmCategory.Harassment are supported.

### 7.1.4.4 SemanticRetriever

GeminiSemanticRetrieverConfig Uralstech.UGemini.Models.Generation.QuestionAnswering.Gemini←
AnswerRequest.SemanticRetriever = null

Content retrieved from resources created via the Semantic Retriever API.

This or InlinePassages are must be provided at a time.

### 7.1.4.5 Temperature

float Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerRequest.Temperature =
-1f

Controls the randomness of the output.

Values can range from [0.0,1.0], inclusive. A value closer to 1.0 will produce responses that are more varied and creative, while a value closer to 0.0 will typically result in more straightforward responses from the model. A low temperature ( $\sim$ 0.2) is usually recommended for Attributed-Question-Answering use cases.

## 7.1.5 Property Documentation

### 7.1.5.1 ContentType

string Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerRequest.ContentType [get]

The MIME type of the request content.

Implements Uralstech.UGemini.IGeminiPostRequest.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Answer/Gemini
 — AnswerRequest.cs

# 7.2 Uralstech.UGemini.Models.Generation.QuestionAnswering.Gemini AnswerResponse Class Reference

Response from the model for a grounded answer.

### **Public Attributes**

· GeminiCandidate Answer

Candidate answer from the model.

float AnswerableProbability

The model's estimate of the probability that its answer is correct and grounded in the input passages.

· GeminiPromptFeedback InputFeedback

Feedback related to the input data used to answer the question, as opposed to model-generated response to the question.

## 7.2.1 Detailed Description

Response from the model for a grounded answer.

### 7.2.2 Member Data Documentation

### 7.2.2.1 Answer

 ${\tt GeminiCandidate} \ \ {\tt Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAnswerResponse.} \leftarrow {\tt Answer}$ 

Candidate answer from the model.

The model always attempts to provide a grounded answer, even when the answer is unlikely to be answerable from the given passages.

In that case, a low-quality or ungrounded answer may be provided, along with a low Answerable Probability.

### 7.2.2.2 AnswerableProbability

 ${\tt float\ Uralstech. UGemini. Models. Generation. Question Answering. Gemini Answer Response. Answerable} \leftarrow {\tt Probability}$ 

The model's estimate of the probability that its answer is correct and grounded in the input passages.

A low answerable Probability indicates that the answer might not be grounded in the sources.

When answerable Probability is low, some clients may wish to:

- Display a message to the effect of "We couldn't answer that question" to the user.
- Fall back to a general-purpose LLM that answers the question from world knowledge. The threshold and nature of such fallbacks will depend on individual clients' use cases. 0.5 is a good starting threshold.

### 7.2.2.3 InputFeedback

 $\label{local_continuity} {\tt GeminiPromptFeedback} \ \ {\tt Ural stech. UGemini. Models. Generation. Question Answering. GeminiAnswer} \leftarrow {\tt Response. InputFeedback}$ 

Feedback related to the input data used to answer the question, as opposed to model-generated response to the question.

"Input data" can be one or more of the following:

- · Question specified by the last entry in GeminiAnswerRequest.Contents
- · Conversation history specified by the other entries in GeminiAnswerRequest.Contents
- Grounding sources (GeminiAnswerRequest.SemanticRetriever or GeminiAnswerRequest.InlinePassages)

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Answer/Gemini

 — AnswerResponse.cs

# 7.3 Uralstech.UGemini.Models.Content.Attribution.GeminiAttribution. Sourceld Class Reference

Identifier for the source contributing to this attribution.

### **Public Attributes**

- $\bullet \ \ GeminiGrounding Passage Id \ \ Grounding Passage$ 
  - Identifier for an inline passage.
- GeminiSemanticRetrieverChunk SemanticRetrieverChunk

Identifier for a Chunk fetched via Semantic Retriever.

## 7.3.1 Detailed Description

Identifier for the source contributing to this attribution.

The documentation for this class was generated from the following file:

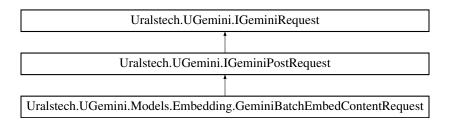
UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/Attribution/Gemini

AttributionSourceId.cs

# 7.4 Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContent← Request Class Reference

Generates multiple embeddings from the model given input text in a synchronous call.

Inheritance diagram for Uralstech. UGemini. Models. Embedding. Gemini Batch Embed Content Request:



### **Public Member Functions**

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

### **Parameters**

|  | metadata | The metadata of the request to be carried out on the URI. |  |
|--|----------|---|--|
|--|----------|---|--|

Returns

The URI.

• GeminiBatchEmbedContentRequest (GeminiModelId model, bool useBetaApi=false)

Creates a new GeminiBatchEmbedContentRequest.

• string GetUtf8EncodedData ()

Converts the request object to a UTF-8 encoded string. Returns

The string data.

### **Public Attributes**

GeminiEmbedContentRequest[] Requests

Embed requests for the batch. The model in each of these requests must match the model specified in Model.

• GeminiModelId Model

The model to use.

string ApiVersion

The API version to use.

### **Properties**

• string ContentType [get]

The MIME type of the request content.

## Properties inherited from Uralstech.UGemini.IGeminiPostRequest

# 7.4.1 Detailed Description

Generates multiple embeddings from the model given input text in a synchronous call.

### 7.4.2 Constructor & Destructor Documentation

### 7.4.2.1 GeminiBatchEmbedContentRequest()

Creates a new GeminiBatchEmbedContentRequest.

#### **Parameters**

| model      | The model to use.                    |
|------------|--------------------------------------|
| useBetaApi | Should the request use the Beta API? |

### 7.4.3 Member Function Documentation

# 7.4.3.1 GetEndpointUri()

 $string \ Ural stech. U Gemini. Models. Embedding. Gemini Batch Embed Content Request. Get Endpoint Uri \ ( \\ Gemini Request Metadata \ metadata)$ 

Gets the URI to the API endpoint.

### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

### Returns

The URI.

 $Implements\ Ural stech. UGemini. IGemini Request.$ 

### 7.4.3.2 GetUtf8EncodedData()

 $\verb| string Ural stech. UGemini. Models. Embedding. GeminiBatch EmbedContent Request. Get Utf8 Encoded Data () \\$ 

Converts the request object to a UTF-8 encoded string.

### Returns

The string data.

 $Implements\ Ural stech. UGemini. IGemini Post Request.$ 

## 7.4.4 Property Documentation

### 7.4.4.1 ContentType

string Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentRequest.ContentType [get]

The MIME type of the request content.

 $Implements\ Ural stech. UGemini. IGemini Post Request.$ 

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Embedding/BatchEmbedContent/Gemini

BatchEmbedContentRequest.cs

# 7.5 Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContent ← Response Class Reference

The response to a GeminiBatchEmbedContentRequest.

### **Public Attributes**

GeminiContentEmbedding[] Embeddings

The embeddings for each request, in the same order as provided in the batch request.

### 7.5.1 Detailed Description

The response to a GeminiBatchEmbedContentRequest.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Embedding/BatchEmbedContent/Gemini

BatchEmbedContentResponse.cs

# 7.6 Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate Class Reference

A response candidate generated from the model.

Inheritance diagram for Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate:

Uralstech.UGemini.IAppendableData< GeminiCandidate >

Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate

# **Public Member Functions**

void Append (GeminiCandidate data)

# Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiCandidate >

· void Append (T data)

Appends the data to the current IAppendableData<T>.

### **Public Attributes**

• GeminiContent Content

Generated content returned from the model.

· GeminiFinishReason FinishReason

The reason why the model stopped generating tokens.

GeminiSafetyRating[] SafetyRatings

List of ratings for the safety of a response candidate There is at most one rating per category.

• GeminiCitationMetadata CitationMetadata

Citation information for model-generated candidate.

int TokenCount

Token count for this candidate.

• GeminiGroundingAttribution[] GroundingAttributions

Attribution information for sources that contributed to a grounded answer.

• int Index

Index of the candidate in the list of candidates.

## 7.6.1 Detailed Description

A response candidate generated from the model.

### 7.6.2 Member Data Documentation

### 7.6.2.1 CitationMetadata

GeminiCitationMetadata Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate.Citation← Metadata

Citation information for model-generated candidate.

This field may be populated with recitation information for any text included in Content.

These are passages that are "recited" from copyrighted material in the foundational LLM's training data.

### 7.6.2.2 GroundingAttributions

 $\begin{tabular}{ll} GeminiGroundingAttribution [] Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate.$\longleftrightarrow GroundingAttributions \end{tabular}$ 

Attribution information for sources that contributed to a grounded answer.

This field is populated for GenerateAnswer calls.

Only available in the beta API.

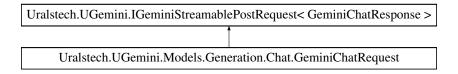
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Candidate/Gemini
 —
 Candidate.cs

# 7.7 Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest Class Reference

Request to generate a response from the model.

Inheritance diagram for Uralstech. UGemini. Models. Generation. Chat. GeminiChat Request:



### **Public Member Functions**

- string GetEndpointUri (GeminiRequestMetadata metadata)
- GeminiChatRequest (GeminiModelId model, bool useBetaApi=false)

Creates a new GeminiChatRequest.

- string GetUtf8EncodedData ()
- $\bullet \ \ \text{async Task } \textbf{ProcessStreamedData} \ (\text{List} < \text{JToken} > \text{allEvents}, \ \text{JToken lastEvent}) \\$

### **Public Member Functions inherited from**

 $\label{lem:uralstech} \textbf{Uralstech.} \textbf{UGemini.} \textbf{IGeminiStreamablePostRequest} < \textbf{GeminiChatResponse} >$ 

Task ProcessStreamedData (List< JToken > allEvents, JToken lastEvent)
 Callback to process Server Sent Events (SSEs).

### **Public Attributes**

• GeminiContent[] Contents

The content of the current conversation with the model.

• GeminiTool[] Tools = null

A list of Tools the model may use to generate the next response.

• GeminiToolConfiguration ToolConfig = null

Tool configuration for any Tool specified in the request.

• GeminiSafetySettings[] SafetySettings = null

A list of unique GeminiSafetySettings instances for blocking unsafe content.

• GeminiContent SystemInstruction = null

Developer set system instruction. Currently, text only.

• GeminiGenerationConfiguration GenerationConfig = null

Configuration options for model generation and outputs.

string CachedContent = null

The name of the cached content used as context to serve the prediction. Format: cachedContents/{cachedContent}.

• GeminiModelId Model

The model to use.

string ApiVersion

The API version to use.

 $\bullet \ \, \mathsf{Func} \! < \! \mathsf{GeminiChatResponse}, \mathsf{Task} > \mathbf{OnPartialResponseReceived} \\$ 

Callback for receiving streamed responses.

### **Properties**

- string ContentType [get]
- GeminiChatResponse StreamedResponse [get]

The streamed response.

### **Properties inherited from**

Uralstech.UGemini.IGeminiStreamablePostRequest< GeminiChatResponse >

• TResponse StreamedResponse [get]

The response being streamed.

### 7.7.1 Detailed Description

Request to generate a response from the model.

### 7.7.2 Constructor & Destructor Documentation

### 7.7.2.1 GeminiChatRequest()

Creates a new GeminiChatRequest.

#### **Parameters**

| model      | The model to use.                    |
|------------|--------------------------------------|
| useBetaApi | Should the request use the Beta API? |

### 7.7.3 Member Data Documentation

### 7.7.3.1 CachedContent

string Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest.CachedContent = null

The name of the cached content used as context to serve the prediction. Format: cachedContents/{cachedContent}.

Note: only used in explicit caching, where users can have control over caching (e.g. what content to cache) and enjoy guaranteed cost savings.

Only available in the beta API.

### **7.7.3.2 Contents**

GeminiContent [] Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest.Contents

The content of the current conversation with the model.

For single-turn queries, this is a single instance. For multi-turn queries, this is a repeated field that contains conversation history + latest request.

# 7.7.3.3 SafetySettings

GeminiSafetySettings [] Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest.Safety← Settings = null

A list of unique GeminiSafetySettings instances for blocking unsafe content.

This will be enforced on Contents and GeminiChatResponse.Candidates.

There should not be more than one setting for each GeminiSafetyHarmCategory type. The API will block any contents and responses that fail to meet the thresholds set by these settings. This list overrides the default settings for each GeminiSafetyHarmCategory specified in the SafetySettings. If there is no GeminiSafetySettings for a given GeminiSafetyHarmCategory provided in the list, the API will use the default safety setting for that category. Harm categories GeminiSafetyHarmCategory.HateSpeech, GeminiSafetyHarmCategory.SexuallyExplicit, GeminiSafetyHarmCategory.DangerousContent and GeminiSafetyHarmCategory.Harassment are supported.

### 7.7.3.4 SystemInstruction

GeminiContent Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest.SystemInstruction =
null

Developer set system instruction. Currently, text only.

Only available in the beta API.

### 7.7.3.5 ToolConfig

GeminiToolConfiguration Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest.ToolConfig
= null

Tool configuration for any Tool specified in the request.

Only available in the beta API.

### 7.7.3.6 Tools

```
GeminiTool [] Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest.Tools = null
```

A list of Tools the model may use to generate the next response.

A Tool is a piece of code that enables the system to interact with external systems to perform an action, or set of actions,

outside of knowledge and scope of the model. The only supported tool is currently Function.

Only available in the beta API.

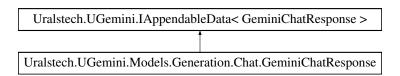
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Chat/GeminiChat
 — Request.cs

# 7.8 Uralstech.UGemini.Models.Generation.Chat.GeminiChatResponse Class Reference

Response from the model supporting multiple candidates.

Inheritance diagram for Uralstech.UGemini.Models.Generation.Chat.GeminiChatResponse:



### **Public Member Functions**

· void Append (GeminiChatResponse data)

### **Public Member Functions inherited from**

Uralstech.UGemini.IAppendableData < GeminiChatResponse >

void Append (T data)

Appends the data to the current IAppendableData<T>.

### **Public Attributes**

• GeminiCandidate[] Candidates

Candidate responses from the model.

GeminiPromptFeedback
 PromptFeedback

Returns the prompt's feedback related to the content filters.

• GeminiUsageMetadata UsageMetadata

Metadata on the generation requests' token usage.

### **Properties**

GeminiContentPart[] Parts [get]

The parts of the GeminiChatResponse message.

### 7.8.1 Detailed Description

Response from the model supporting multiple candidates.

Note on safety ratings and content filtering. They are reported for both prompt in PromptFeedback and for each candidate in GeminiCandidate.FinishReason and in GeminiCandidate.SafetyRatings. The API contract is that:

- either all requested candidates are returned or no candidates at all
- no candidates are returned only if there was something wrong with the prompt (see PromptFeedback)
- feedback on each candidate is reported on GeminiCandidate.FinishReason and GeminiCandidate.SafetyRatings.

The documentation for this class was generated from the following file:

# 7.9 Uralstech.UGemini.Models.Content.Citation.GeminiCitationMetadata Class Reference

A collection of source attributions for a piece of content.

## **Public Attributes**

• GeminiCitationSource[] CitationSources

Citations to sources for a specific response.

## 7.9.1 Detailed Description

A collection of source attributions for a piece of content.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/Citation/GeminiCitation
 —
 Metadata.cs

# 7.10 Uralstech.UGemini.Models.Content.Citation.GeminiCitationSource Class Reference

A citation to a source for a portion of a specific response.

### **Public Attributes**

· int StartIndex

Start of segment of the response that is attributed to this source.

int EndIndex

End of the attributed segment, exclusive.

· string Uri

URI that is attributed as a source for a portion of the text.

• string License

License for the GitHub project that is attributed as a source for segment.

## 7.10.1 Detailed Description

A citation to a source for a portion of a specific response.

### 7.10.2 Member Data Documentation

### 7.10.2.1 StartIndex

int Uralstech. UGemini. Models. Content. Citation. GeminiCitationSource. StartIndex

Start of segment of the response that is attributed to this source.

Index indicates the start of the segment, measured in bytes.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/Citation/GeminiCitation
 — Source.cs

## 7.11 Uralstech.UGemini.Models.Generation.Tools.Declaration.Gemini CodeExecution Class Reference

Tool that executes code generated by the model, and automatically returns the result to the model.

## 7.11.1 Detailed Description

Tool that executes code generated by the model, and automatically returns the result to the model.

See CodeExecution.GeminiExecutableCode and CodeExecution.GeminiCodeExecutionResult which are only generated when using this tool.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/Declaration/Gemini
 — CodeExecution.cs

## 7.12 Uralstech.UGemini.Models.Generation.Tools.CodeExecution. GeminiCodeExecutionResult Class Reference

Result of executing the GeminiExecutableCode.

#### **Public Attributes**

• GeminiCodeExecutionOutcome Outcome

Outcome of the code execution.

• string **Output** = null

Contains stdout when code execution is successful, stderr or other description otherwise.

## 7.12.1 Detailed Description

Result of executing the GeminiExecutableCode.

Only generated when using the Declaration. GeminiCode Execution tool, and always follows a part containing the GeminiExecutableCode.

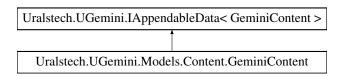
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/CodeExecution/Gemini
 — CodeExecutionResult.cs

## 7.13 Uralstech.UGemini.Models.Content.GeminiContent Class Reference

The base structured datatype containing multi-part content of a message.

Inheritance diagram for Uralstech.UGemini.Models.Content.GeminiContent:



#### **Public Member Functions**

· void Append (GeminiContent data)

## Public Member Functions inherited from Uralstech.UGemini.IAppendableData < GeminiContent >

· void Append (T data)

Appends the data to the current IAppendableData<T>.

#### **Static Public Member Functions**

- static GeminiContent GetContent (string message, GeminiRole role=GeminiRole.Unspecified)

  Creates a new GeminiContent from a role and message.
- static GeminiContent GetContent (string message, Texture2D image, GeminiRole role=GeminiRole.Unspecified)

  Creates a new GeminiContent from a role, message and Texture2D.
- static GeminiContent GetContent (string message, AudioClip audio, GeminiRole role=GeminiRole.Unspecified)
   Creates a new GeminiContent from a role, message and AudioClip.
- static GeminiContent GetContent (string message, GeminiFile file, GeminiRole role=GeminiRole.Unspecified)

  Creates a new GeminiContent from a role, message and GeminiFile.
- static GeminiContent GetContent (GeminiFunctionCall functionCall)

Creates a new GeminiContent from a GeminiFunctionCall.

static GeminiContent GetContent (GeminiFunctionResponse functionResponse)

Creates a new GeminiContent from a GeminiFunctionResponse.

#### **Public Attributes**

GeminiContentPart[] Parts

Ordered Parts that constitute a single message. Parts may have different MIME types.

GeminiRole Role

Optional. The producer of the content.

## 7.13.1 Detailed Description

The base structured datatype containing multi-part content of a message.

## 7.13.2 Member Function Documentation

## 7.13.2.1 GetContent() [1/6]

 $\begin{tabular}{ll} {\tt Static GeminiContent Uralstech.UGemini.Models.Content.GeminiContent.GetContent} & {\tt GeminiFunctionCall functionCall} \\ & {\tt Static} \\ \end{tabular} \label{table:content.geminiContent.GetContent} & {\tt GeminiFunctionCall functionCall} \\ \end{tabular} \end{tabular} \begin{tabular}{ll} \en$ 

Creates a new GeminiContent from a GeminiFunctionCall.

#### **Parameters**

| functionCall The function call. |
|---------------------------------|
|---------------------------------|

#### Returns

A new GeminiContent object.

## 7.13.2.2 GetContent() [2/6]

Creates a new GeminiContent from a GeminiFunctionResponse.

#### **Parameters**

| functionResponse | The function response. |
|------------------|------------------------|
|------------------|------------------------|

#### Returns

A new GeminiContent object.

## 7.13.2.3 GetContent() [3/6]

Creates a new GeminiContent from a role, message and AudioClip.

```
Requires Utilities. Encoding. Wav.
```

#### **Parameters**

| role    | The role of the content creator. |
|---------|----------------------------------|
| message | The message.                     |
| audio   | The audio clip.                  |

#### Returns

A new GeminiContent object.

## 7.13.2.4 GetContent() [4/6]

Creates a new GeminiContent from a role, message and GeminiFile.

| role    | The role of the content creator. |
|---------|----------------------------------|
| message | The message.                     |
| file    | The GeminiFile.                  |

#### Returns

A new GeminiContent object.

## 7.13.2.5 GetContent() [5/6]

Creates a new GeminiContent from a role and message.

#### **Parameters**

| role    | The role of the content creator. |
|---------|----------------------------------|
| message | The message.                     |

#### Returns

A new GeminiContent object.

## 7.13.2.6 GetContent() [6/6]

Creates a new GeminiContent from a role, message and Texture2D.

#### **Parameters**

| role    | The role of the content creator. |
|---------|----------------------------------|
| message | The message.                     |
| image   | The image texture.               |

#### Returns

A new GeminiContent object.

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/GeminiContent.cs

## 7.14 Uralstech.UGemini.Models.Content.GeminiContentBlob Class Reference

Raw media bytes.

#### **Static Public Member Functions**

• static GeminiContentBlob GetContentBlob (AudioClip audio)

Converts the given AudioClip to a GeminiContentBlob.

static GeminiContentBlob GetContentBlob (Texture2D image, bool useJPEG=false)

Converts the given Texture2D to a GeminiContentBlob.

#### **Public Attributes**

GeminiContentType MimeType

The type of the data.

• string Data

The base64 encoded bytes of data.

## 7.14.1 Detailed Description

Raw media bytes.

Text should not be sent as raw bytes, use the GeminiContentPart.Text field.

## 7.14.2 Member Function Documentation

## 7.14.2.1 GetContentBlob() [1/2]

Converts the given AudioClip to a GeminiContentBlob.

Requires Utilities. Encoding. Wav.

## **Parameters**

| audio | The AudioClip to use. |
|-------|-----------------------|
|-------|-----------------------|

#### Returns

A new GeminiContentBlob object.

## 7.14.2.2 GetContentBlob() [2/2]

Converts the given Texture2D to a GeminiContentBlob.

| image   | The Texture2D to use.                       |
|---------|---|
| useJPEG | Should the encoder use JPEG instead of PNG? |

#### Returns

A new GeminiContentBlob object.

## 7.14.3 Member Data Documentation

## 7.14.3.1 MimeType

GeminiContentType Uralstech.UGemini.Models.Content.GeminiContentBlob.MimeType

The type of the data.

You can use GeminiContentTypeExtensions.ContentType(string) to convert string values to their GeminiContentType equivalents, like: "image/png".ContentType()

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/GeminiContentBlob.cs

## 7.15 Uralstech.UGemini.Models.Embedding.GeminiContentEmbedding Class Reference

A list of floats representing an embedding.

## **Public Attributes**

float[] Values

The embedding values.

## 7.15.1 Detailed Description

A list of floats representing an embedding.

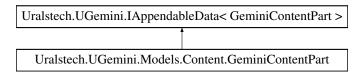
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Embedding/GeminiContent
 ←
 Embedding.cs

## 7.16 Uralstech.UGemini.Models.Content.GeminiContentPart Class Reference

A datatype containing media that is part of a multi-part Content message. Must only contain one field at a time.

Inheritance diagram for Uralstech.UGemini.Models.Content.GeminiContentPart:



#### **Public Member Functions**

- void Append (GeminiContentPart data)
- bool IsAppendable (GeminiContentPart data)

Is the data to be appended compatible with the current GeminiContentPart?

## Public Member Functions inherited from Uralstech.UGemini.IAppendableData< GeminiContentPart >

void Append (T data)

Appends the data to the current IAppendableData<T>.

#### **Public Attributes**

• string Text = null

Inline text.

• GeminiContentBlob InlineData = null

Inline media bytes.

• GeminiFunctionCall FunctionCall = null

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaratio.name with the arguments and their values.

• GeminiFunctionResponse FunctionResponse = null

The result output of a FunctionCall that contains a string representing the FunctionDeclaration.name and a structured JSON object containing any output from the function is used as context to the model.

• GeminiFileData FileData = null

URI based data.

• GeminiExecutableCode ExecutableCode = null

Code generated by the model that is meant to be executed.

• GeminiCodeExecutionResult CodeExecutionResult = null

Result of executing the ExecutableCode.

## **Properties**

• bool **IsEmpty** [get]

Is there no content stored in this GeminiContentPart?

## 7.16.1 Detailed Description

A datatype containing media that is part of a multi-part Content message. Must only contain one field at a time.

#### 7.16.2 Member Function Documentation

#### 7.16.2.1 IsAppendable()

Is the data to be appended compatible with the current GeminiContentPart?

#### **Parameters**

## 7.16.3 Member Data Documentation

#### 7.16.3.1 FileData

```
GeminiFileData Uralstech.UGemini.Models.Content.GeminiContentPart.FileData = null
```

URI based data.

Only available in the beta API.

#### 7.16.3.2 FunctionCall

```
GeminiFunctionCall Uralstech.UGemini.Models.Content.GeminiContentPart.FunctionCall = null
```

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaratio.name with the arguments and their values.

Only available in the beta API.

#### 7.16.3.3 FunctionResponse

GeminiFunctionResponse Uralstech.UGemini.Models.Content.GeminiContentPart.FunctionResponse =
null

The result output of a FunctionCall that contains a string representing the FunctionDeclaration.name and a structured JSON object containing any output from the function is used as context to the model.

Only available in the beta API.

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/GeminiContentPart.cs

## 7.17 Uralstech. UGemini. GeminiContent Type Extensions Class Reference

Extensions for Enum type objects.

#### **Static Public Member Functions**

static string MimeType (this GeminiContentType enumValue)
 Converts a GeminiContentType to its MIME type.

static GeminiContentType ContentType (this string mimeType)

Converts a string MIME type to a GeminiContentType.

## 7.17.1 Detailed Description

Extensions for Enum type objects.

## 7.17.2 Member Function Documentation

## 7.17.2.1 ContentType()

Converts a string MIME type to a GeminiContentType.

#### **Parameters**

| mimeType | The MIME type string. |
|----------|-----------------------|

### Returns

The GeminiContentType equivalent.

#### **Exceptions**

| NotImplementedException | Thrown if GeminiContentType does not have an equivalent MIME type to mimeType. |
|-------------------------|--|
| - I                     |  |

## 7.17.2.2 MimeType()

Converts a GeminiContentType to its MIME type.

| enumValue | The GeminiContentType value. |
|-----------|------------------------------|
|-----------|------------------------------|

#### Returns

The MIME type as a string.

#### **Exceptions**

| NotImplementedException | Thrown if the MIME type of the enum value could not be found. |
|-------------------------|---|
|-------------------------|---|

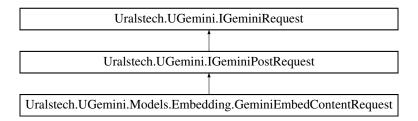
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/GeminiContentTypeExtensions.cs

# 7.18 Uralstech.UGemini.Models.Embedding.GeminiEmbedContent Request Class Reference

Generates an embedding from the model.

Inheritance diagram for Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest:



#### **Public Member Functions**

string GetEndpointUri (GeminiRequestMetadata metadata)
 Gets the URI to the API endpoint.

#### Parameters

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

Returns

The URI.

• GeminiEmbedContentRequest (GeminiModelId model, bool useBetaApi=false)

Creates a new GeminiEmbedContentRequest.

string GetUtf8EncodedData ()

Converts the request object to a UTF-8 encoded string. Returns

The string data.

## **Public Attributes**

· GeminiContent Content

The content to embed. Only the GeminiContentPart. Text fields will be counted.

• GeminiEmbedTaskType TaskType = GeminiEmbedTaskType.Unspecified

Optional task type for which the embeddings will be used.

• string Title = null

An optional title for the text. Only applicable when TaskType is GeminiEmbedTaskType.RetrievalDocument.

• int OutputDimensionality = -1

Optional reduced dimension for the output embedding.

• GeminiModelId Model

The model to use.

· string ApiVersion

The API version to use.

#### **Properties**

• string ContentType [get]

The MIME type of the request content.

## Properties inherited from Uralstech.UGemini.IGeminiPostRequest

## 7.18.1 Detailed Description

Generates an embedding from the model.

## 7.18.2 Constructor & Destructor Documentation

## 7.18.2.1 GeminiEmbedContentRequest()

## Creates a new GeminiEmbedContentRequest.

#### **Parameters**

| model      | The model to use.                    |
|------------|--------------------------------------|
| useBetaApi | Should the request use the Beta API? |

## 7.18.3 Member Function Documentation

## 7.18.3.1 GetEndpointUri()

Gets the URI to the API endpoint.

| metadata   The metadata of the request to be carried out on the UH | metadata | The metadata of the request to be carried out on the URI. |
|--|----------|---|
|--|----------|---|

#### Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

#### 7.18.3.2 GetUtf8EncodedData()

string Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest.GetUtf8EncodedData ()

Converts the request object to a UTF-8 encoded string.

#### Returns

The string data.

Implements Uralstech. UGemini. IGeminiPostRequest.

#### 7.18.4 Member Data Documentation

#### 7.18.4.1 OutputDimensionality

int Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest.OutputDimensionality = -1

Optional reduced dimension for the output embedding.

If set, excessive values in the output embedding are truncated from the end. Supported by newer models since 2024, and the earlier model (models/embedding-001) cannot specify this value.

## 7.18.4.2 TaskType

GeminiEmbedTaskType Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest.TaskType =
GeminiEmbedTaskType.Unspecified

Optional task type for which the embeddings will be used.

Can only be set for "models/embedding-001" model.

#### 7.18.4.3 Title

string Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest.Title = null

An optional title for the text. Only applicable when TaskType is GeminiEmbedTaskType.RetrievalDocument.

Specifying a this for GeminiEmbedTaskType.RetrievalDocument provides better quality embeddings for retrieval.

## 7.18.5 Property Documentation

### 7.18.5.1 ContentType

string Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest.ContentType [get]

The MIME type of the request content.

Implements Uralstech.UGemini.IGeminiPostRequest.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Embedding/EmbedContent/Gemini
← EmbedContentRequest.cs

# 7.19 Uralstech.UGemini.Models.Embedding.GeminiEmbedContent Response Class Reference

The response to a GeminiEmbedContentRequest.

## **Public Attributes**

• GeminiContentEmbedding Embedding

The embedding generated from the input content.

## 7.19.1 Detailed Description

The response to a GeminiEmbedContentRequest.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Embedding/EmbedContent/Gemini
← EmbedContentResponse.cs

## 7.20 Uralstech.UGemini.Models.Generation.Tools.CodeExecution. GeminiExecutableCode Class Reference

Code generated by the model that is meant to be executed, and the result returned to the model.

#### **Public Attributes**

GeminiCodeExecutionLanguage Language

Programming language of the Code.

• string Code

The code to be executed.

## 7.20.1 Detailed Description

Code generated by the model that is meant to be executed, and the result returned to the model.

Only generated when using the Declaration.GeminiCodeExecution tool, in which the code will be automatically executed, and a corresponding GeminiCodeExecutionResult will also be generated.

The documentation for this class was generated from the following file:

## 7.21 Uralstech.UGemini.FileAPI.GeminiFile Class Reference

Metadata for a file uploaded to the File API.

#### **Public Attributes**

· string Name

The GeminiFile resource name.

• string **DisplayName** = null

The human-readable display name for the GeminiFile.

string MimeType

MIME type of the file.

long SizeBytes

Size of the file in bytes.

· DateTime CreateTime

The timestamp of when the GeminiFile was created.

• DateTime UpdateTime

The timestamp of when the GeminiFile was last updated.

• DateTime ExpirationTime

The timestamp of when the GeminiFile will be deleted. Only set if the GeminiFile is scheduled to expire.

string Sha256Hash

SHA-256 hash of the uploaded bytes. A base64-encoded string.

• string Uri

The uri of the GeminiFile.

• GeminiFileState State

Processing state of the GeminiFile.

· GeminiStatus Status

Error status if GeminiFile processing failed.

GeminiFileVideoMetaData VideoMetadata

Metadata for a video.

## 7.21.1 Detailed Description

Metadata for a file uploaded to the File API.

## 7.21.2 Member Data Documentation

## 7.21.2.1 MimeType

```
string Uralstech.UGemini.FileAPI.GeminiFile.MimeType
```

MIME type of the file.

You can use GeminiContentTypeExtensions.ContentType(string) to convert string values to their GeminiContentType equivalents, like: "image/png".ContentType()

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/GeminiFile.cs

## 7.22 Uralstech.UGemini.Models.Content.GeminiFileData Class Reference

URI based data.

#### **Public Member Functions**

• GeminiFileData ()

Creates a new GeminiFileData object.

GeminiFileData (GeminiContentType contentType, string fileUri)

Creates a new GeminiFileData object.

#### **Public Attributes**

• string **MimeType** = null

The IANA standard MIME type of the source data.

• string FileUri

URI.

## 7.22.1 Detailed Description

URI based data.

## 7.22.2 Constructor & Destructor Documentation

## 7.22.2.1 GeminiFileData()

Creates a new GeminiFileData object.

| contentType | The type of the file's contents. |
|-------------|----------------------------------|
| fileUri     | The URI to the file.             |

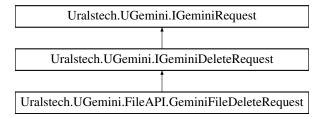
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/GeminiFileData.cs

## 7.23 Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest Class Reference

Requests the deletion of a file.

 $Inheritance\ diagram\ for\ Ural stech. UGemini. File API. Gemini File Delete Request:$ 



#### **Public Member Functions**

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

Returns

The URI.

 $\bullet \ \ GeminiFileDeleteRequest \ (string \ fileNameOrld, bool \ useBetaApi=true)$ 

Creates a new GeminiFileDeleteRequest.

#### **Public Attributes**

string ApiVersion

The API version to use.

string FileId

The ID of the file to delete.

## 7.23.1 Detailed Description

Requests the deletion of a file.

#### 7.23.2 Constructor & Destructor Documentation

## 7.23.2.1 GeminiFileDeleteRequest()

Creates a new GeminiFileDeleteRequest.

#### **Parameters**

| fileName←  | The name (format 'files/{fileId}') or ID of the file to delete. |
|------------|---|
| Orld       |   |
| useBetaApi | Should the request use the Beta API?                            |

## 7.23.3 Member Function Documentation

#### 7.23.3.1 GetEndpointUri()

Gets the URI to the API endpoint.

#### **Parameters**

| meta | data | The metadata of the request to be carried out on the URI. |
|------|------|---|
|------|------|---|

### Returns

The URI.

Implements Uralstech. UGemini. IGemini Request.

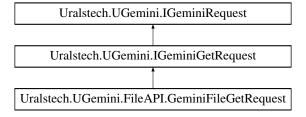
The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/Delete/GeminiFileDeleteRequest.cs

## 7.24 Uralstech. UGemini. File API. Gemini File Get Request Class Reference

Requests metadata for an existing file. Return type is GeminiFile.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiFileGetRequest:



#### **Public Member Functions**

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

| metadata | The metadata of the request to be carried out on the URI. |  |
|----------|---|--|
|----------|---|--|

Returns

The URI.

• GeminiFileGetRequest (string fileNameOrld, bool useBetaApi=true)

Creates a new GeminiFileGetRequest.

## **Public Attributes**

· string ApiVersion

The API version to use.

string FileId

The ID of the file to get.

## 7.24.1 Detailed Description

Requests metadata for an existing file. Return type is GeminiFile.

## 7.24.2 Constructor & Destructor Documentation

## 7.24.2.1 GeminiFileGetRequest()

Creates a new GeminiFileGetRequest.

## Parameters

| fileName <i>⊷</i><br>Orld | The name (format 'files/{fileId}') or ID of the file to get. |
|---------------------------|--|
| useBetaApi                | Should the request use the Beta API?                         |

## 7.24.3 Member Function Documentation

## 7.24.3.1 GetEndpointUri()

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. | ] |
|----------|---|---|
|----------|---|---|

#### Returns

The URL

Implements Uralstech. UGemini. IGemini Request.

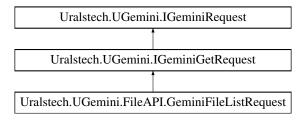
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/Get/GeminiFileGetRequest.cs

## 7.25 Uralstech.UGemini.FileAPI.GeminiFileListRequest Class Reference

Requests metadata for all existing files. Return type is GeminiFileListResponse.

 $Inheritance\ diagram\ for\ Ural stech. UGemini. File API. Gemini File List Request:$ 



## **Public Member Functions**

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

## **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|

Returns

The URI.

• GeminiFileListRequest (bool useBetaApi=true)

Creates a new GeminiFileListRequest.

## **Public Attributes**

string ApiVersion

The API version to use.

• int MaxResponseFiles = 10

Maximum number of Files to return per page. If unspecified, defaults to 10. Maximum pageSize is 100.

• string **PageToken** = string.Empty

A page token from a previous files.list call.

## 7.25.1 Detailed Description

Requests metadata for all existing files. Return type is GeminiFileListResponse.

## 7.25.2 Constructor & Destructor Documentation

## 7.25.2.1 GeminiFileListRequest()

Creates a new GeminiFileListRequest.

#### **Parameters**

| useBetaApi | Should the request use the Beta API? |
|------------|--------------------------------------|
|------------|--------------------------------------|

## 7.25.3 Member Function Documentation

#### 7.25.3.1 GetEndpointUri()

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

#### Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/List/GeminiFileListRequest.cs

# 7.26 Uralstech.UGemini.FileAPI.GeminiFileListResponse Class Reference

The response for a GeminiFileListRequest call.

#### **Public Attributes**

· GeminiFile[] Files

The list of files.

string NextPageToken

A token that can be sent as a GeminiFileListRequest.PageToken into a subsequent GeminiFileListRequest call.

## 7.26.1 Detailed Description

The response for a GeminiFileListRequest call.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/List/GeminiFileListResponse.cs

## 7.27 Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData Class Reference

Metadata for a GeminiFile to be uploaded.

## **Public Attributes**

• string Name = null

The GeminiFileUploadRequest resource name. This does not work right now.

• string **DisplayName** = null

The human-readable display name for the GeminiFileUploadRequest. The display name must be no more than 512 characters in length, including spaces. Example: "Welcome Image".

## 7.27.1 Detailed Description

Metadata for a GeminiFile to be uploaded.

## 7.27.2 Member Data Documentation

## 7.27.2.1 Name

string Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData.Name = null

The GeminiFileUploadRequest resource name. This does not work right now.

The ID (name excluding the "files/" prefix) can contain up to 40 characters that are lowercase alphanumeric or dashes (-).

The ID cannot start or end with a dash. If the name is empty on create, a unique name will be generated. Example: files/123-456

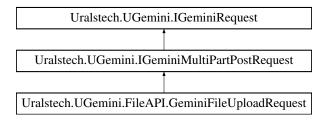
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/Upload/GeminiFileUploadMeta
 — Data.cs

## 7.28 Uralstech.UGemini.FileAPI.GeminiFileUploadRequest Class Reference

Uploads a file to the Gemini File API. Response type is GeminiFileUploadResponse.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiFileUploadRequest:



#### **Public Member Functions**

string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

Returns

The URI.

• GeminiFileUploadRequest (string contentType, bool useBetaApi=true)

Creates a new GeminiFileUploadRequest.

GeminiFileUploadRequest (GeminiContentType contentType, bool useBetaApi=true)

Creates a new GeminiFileUploadRequest.

string GetUtf8EncodedData (string dataSeperator)

Converts the request object to a UTF-8 encoded multi-part string.

#### **Parameters**

| dataSeperator | The boundary to seperate each part of the data. |
|---------------|---|
|---------------|---|

Returns

The string data.

### **Public Attributes**

• GeminiFileUploadMetaData File = null

Optional metadata for the GeminiFile to be uploaded.

string MimeType

The IANA standard MIME type of the GeminiFileUploadRequest.

byte[] RawData

The raw file data to upload.

· string ApiVersion

The API version to use.

## **Properties**

string ContentType [get]

## 7.28.1 Detailed Description

Uploads a file to the Gemini File API. Response type is GeminiFileUploadResponse.

This feature is currently being worked on and is unstable.

## 7.28.2 Constructor & Destructor Documentation

## 7.28.2.1 GeminiFileUploadRequest() [1/2]

Creates a new GeminiFileUploadRequest.

#### **Parameters**

| contentType | The content type of the data.        |
|-------------|--------------------------------------|
| useBetaApi  | Should the request use the Beta API? |

## 7.28.2.2 GeminiFileUploadRequest() [2/2]

Creates a new GeminiFileUploadRequest.

## **Parameters**

| contentType | The content type of the data.        |
|-------------|--------------------------------------|
| useBetaApi  | Should the request use the Beta API? |

## 7.28.3 Member Function Documentation

## 7.28.3.1 GetEndpointUri()

```
string Uralstech.
UGemini.
File<br/>API.
Gemini
File<br/>UploadRequest.
GetEndpointUri (<br/> {\tt GeminiRequestMetadata} \ \textit{metadata})
```

Gets the URI to the API endpoint.

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|          |   |

#### Returns

The URI.

Implements Uralstech. UGemini. IGemini Request.

#### 7.28.3.2 GetUtf8EncodedData()

```
\label{thm:condition} \mbox{string Uralstech.UGemini.FileAPI.GeminiFileUploadRequest.GetUtf8EncodedData (} \\ \mbox{string } \mbox{$dataSeperator})
```

Converts the request object to a UTF-8 encoded multi-part string.

#### **Parameters**

| dataSeperator | The boundary to seperate each part of the data. |
|---------------|---|
|---------------|---|

#### Returns

The string data.

Implements Uralstech. UGemini. IGemini MultiPartPostRequest.

The documentation for this class was generated from the following file:

 $\bullet \ \ UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/Upload/GeminiFileUploadRequest.cs$ 

## 7.29 Uralstech.UGemini.FileAPI.GeminiFileUploadResponse Class Reference

Response for a file upload request.

#### **Public Attributes**

• GeminiFile File

Metadata for the created file.

## 7.29.1 Detailed Description

Response for a file upload request.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/Upload/GeminiFileUploadResponse. ← cs

## 7.30 Uralstech.UGemini.FileAPI.GeminiFileVideoMetaData Class Reference

Metadata for a video GeminiFile.

#### **Public Attributes**

· TimeSpan VideoDuration

Duration of the video.

## 7.30.1 Detailed Description

Metadata for a video GeminiFile.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/GeminiFileVideoMetaData.cs

## 7.31 Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionCall Class Reference

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaration.name with the arguments and their values.

#### **Public Member Functions**

GeminiFunctionResponse GetResponse (JObject responseJson=null)

Creates a GeminiFunctionResponse for this function call.

#### **Public Attributes**

· string Name

The name of the function to call. Must be a-z, A-Z, 0-9, or contain underscores and dashes, with a maximum length of 63.

• JObject Arguments = null

Optional. The function parameters and values in JSON object format.

#### 7.31.1 Detailed Description

A predicted FunctionCall returned from the model that contains a string representing the FunctionDeclaration.name with the arguments and their values.

## 7.31.2 Member Function Documentation

#### 7.31.2.1 GetResponse()

```
\begin{tabular}{ll} GeminiFunctionResponse Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionCall.Get $\longleftrightarrow$ \\ Response ( & JObject $response Json = null) \end{tabular}
```

Creates a GeminiFunctionResponse for this function call.

| responseJson Th |
|-----------------|
|-----------------|

Returns

A new GeminiFunctionResponse object.

#### 7.31.3 Member Data Documentation

## 7.31.3.1 Arguments

JObject Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionCall.Arguments = null

Optional. The function parameters and values in JSON object format.

See Protocol Buffer Struct.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/GeminiFunction
 — Call.cs

# 7.32 Uralstech.UGemini.Models.Generation.Tools.Declaration.Gemini FunctionCallingConfiguration Class Reference

Configuration for specifying function calling behavior.

### **Public Attributes**

- GeminiFunctionCallingMode **Mode** = GeminiFunctionCallingMode.Auto
  - Specifies the mode in which function calling should execute. If unspecified, the default value will be set to AUTO.
- string[] AllowedFunctionNames = null

A set of function names that, when provided, limits the functions the model will call.

## 7.32.1 Detailed Description

Configuration for specifying function calling behavior.

## 7.32.2 Member Data Documentation

#### 7.32.2.1 AllowedFunctionNames

 $string \ [\ ] \ Uralstech. UGemini. Models. Generation. Tools. Declaration. GeminiFunction Calling Configuration. \\ \leftarrow Allowed Function Names = null$ 

A set of function names that, when provided, limits the functions the model will call.

This should only be set when Mode is GeminiFunctionCallingMode.Any.

Function names should match [GeminiFunctionDeclaration.Name]. With mode set to GeminiFunctionCallingMode.Any, model will predict a function call from the set of function names provided.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/Declaration/Gemini

FunctionCallingConfiguration.cs

## 7.33 Uralstech.UGemini.Models.Generation.Tools.Declaration.Gemini FunctionDeclaration Class Reference

Structured representation of a function declaration as defined by the OpenAPI 3.03 specification. Included in this declaration are the function name and parameters. This FunctionDeclaration is a representation of a block of code that can be used as a Tool by the model and executed by the client.

#### **Public Attributes**

· string Name

The name of the function. Must be a-z, A-Z, 0-9, or contain underscores and dashes, with a maximum length of 63.

· string Description

A brief description of the function.

• GeminiSchema Parameters = null

Describes the parameters to this function. Reflects the Open API 3.03 Parameter Object string Key: the name of the parameter.

Parameter names are case sensitive.

Schema Value: the Schema defining the type used for the parameter.

#### 7.33.1 Detailed Description

Structured representation of a function declaration as defined by the OpenAPI 3.03 specification. Included in this declaration are the function name and parameters. This FunctionDeclaration is a representation of a block of code that can be used as a Tool by the model and executed by the client.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/Declaration/Gemini

— FunctionDeclaration.cs

# 7.34 Uralstech.UGemini.Models.Generation.Tools.GeminiFunction Response Class Reference

The result output from a GeminiFunctionCall that contains a string representing the Declaration.GeminiFunctionDeclaration.Name and a structured JSON object containing any output from the function is used as context to the model. This should contain the result of a GeminiFunctionCall made based on model prediction.

## **Public Attributes**

· string Name

The name of the function to call. Must be a-z, A-Z, 0-9, or contain underscores and dashes, with a maximum length of 63.

• GeminiFunctionResponseContent Response = null

The function response data.

## 7.34.1 Detailed Description

The result output from a GeminiFunctionCall that contains a string representing the Declaration.GeminiFunctionDeclaration.Name and a structured JSON object containing any output from the function is used as context to the model. This should contain the result of a GeminiFunctionCall made based on model prediction.

The documentation for this class was generated from the following file:

# 7.35 Uralstech.UGemini.Models.Generation.Tools.GeminiFunction ResponseContent Class Reference

The response of a Gemini function call. Based on the Protocol Buffer Struct type.

## **Public Attributes**

· string Name

The name of the function.

• JObject ResponseData

The actual JSON response data of the function.

## 7.35.1 Detailed Description

The response of a Gemini function call. Based on the Protocol Buffer Struct type.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/GeminiFunction
 — ResponseContent.cs

# 7.36 Uralstech.UGemini.Models.Generation.GeminiGeneration Configuration Class Reference

Configuration options for model generation and outputs. Not all parameters may be configurable for every model.

#### **Public Attributes**

• string[] StopSequences = null

The set of character sequences (up to 5) that will stop output generation. If specified, the API will stop at the first appearance of a stop sequence. The stop sequence will not be included as part of the response.

GeminiResponseType ResponseMimeType = GeminiResponseType.Unspecified

Output response type of the generated candidate text.

GeminiSchema ResponseSchema = null

Output response schema of the generated candidate text when response mime type can have schema.

• int CandidateCount = 1

Number of generated responses to return.

• int MaxOutputTokens = -1

The maximum number of tokens to include in a candidate.

• float Temperature = -1f

Controls the randomness of the output. Values can range from 0.0 - 2.0.

float TopP = -1f

The maximum cumulative probability of tokens to consider when sampling.

• int TopK = -1

The maximum number of tokens to consider when sampling.

#### 7.36.1 Detailed Description

Configuration options for model generation and outputs. Not all parameters may be configurable for every model.

#### 7.36.2 Member Data Documentation

#### 7.36.2.1 CandidateCount

int Uralstech. UGemini. Models. Generation. GeminiGeneration Configuration. CandidateCount = 1

Number of generated responses to return.

Currently, this value can only be set to 1. If unset, this will default to 1.

### 7.36.2.2 ResponseMimeType

GeminiResponseType Uralstech.UGemini.Models.Generation.GeminiGenerationConfiguration.Response←
MimeType = GeminiResponseType.Unspecified

Output response type of the generated candidate text.

Only available in the beta API.

#### 7.36.2.3 ResponseSchema

GeminiSchema Uralstech.UGemini.Models.Generation.GeminiGenerationConfiguration.ResponseSchema
= null

Output response schema of the generated candidate text when response mime type can have schema.

If set, a compatible GeminiResponseType must also be set. Compatible types: GeminiResponseType.Json 

∴ Schema for JSON response.

Only available in the beta API.

## 7.36.2.4 TopK

int Uralstech.UGemini.Models.Generation.GeminiGenerationConfiguration.TopK = -1

The maximum number of tokens to consider when sampling.

Models use nucleus sampling or combined Top-k and nucleus sampling. Top-k sampling considers the set of topK most

probable tokens. Models running with nucleus sampling don't allow topK setting.

### 7.36.2.5 TopP

float Uralstech.UGemini.Models.Generation.GeminiGenerationConfiguration.TopP = -1f

The maximum cumulative probability of tokens to consider when sampling.

The model uses combined Top-k and nucleus sampling.

Tokens are sorted based on their assigned probabilities so that only the most likely tokens are considered. Top-k sampling directly limits the maximum number of tokens to consider, while Nucleus sampling limits number of tokens based on the cumulative probability.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/GeminiGeneration
 — Configuration.cs

## 7.37 Uralstech.UGemini.Models.Content.Attribution.GeminiGrounding Attribution Class Reference

Attribution for a source that contributed to an answer.

#### **Public Attributes**

• GeminiAttributionSourceId SourceId

Identifier for the source contributing to this attribution.

• GeminiContent Content

Grounding source content that makes up this attribution.

## 7.37.1 Detailed Description

Attribution for a source that contributed to an answer.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/Attribution/Gemini
 GroundingAttribution.cs

# 7.38 Uralstech.UGemini.Models.Generation.QuestionAnswering. Grounding.GeminiGroundingPassage Class Reference

Passage included inline with a grounding configuration.

#### **Public Attributes**

· string Id

Identifier for the passage for attributing this passage in grounded answers.

• GeminiContent Content

Content of the passage.

## 7.38.1 Detailed Description

Passage included inline with a grounding configuration.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Answer/Grounding/Gemini
 GroundingPassage.cs

# 7.39 Uralstech.UGemini.Models.Content.Attribution.GeminiGrounding Passageld Class Reference

Identifier for a part within a GroundingPassage.

#### **Public Attributes**

· string PassageId

ID of the passage matching the GenerateAnswerRequest's GeminiAttributionSourceId.GroundingPassage.

· int PartIndex

Index of the part within the GenerateAnswerRequest's GeminiAttributionSourceId.GroundingPassage.

## 7.39.1 Detailed Description

Identifier for a part within a GroundingPassage.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/Attribution/Gemini
 GroundingPassageId.cs

# 7.40 Uralstech.UGemini.Models.Generation.QuestionAnswering. Grounding.GeminiGroundingPassages Class Reference

A repeated list of passages.

#### **Public Attributes**

GeminiGroundingPassage[] Passages
 List of passages.

## 7.40.1 Detailed Description

A repeated list of passages.

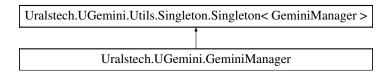
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Answer/Grounding/Gemini
 GroundingPassages.cs

## 7.41 Uralstech.UGemini.GeminiManager Class Reference

The class for accessing the Gemini API!

Inheritance diagram for Uralstech.UGemini.GeminiManager:



#### **Public Member Functions**

void SetApiKey (string apiKey)

Sets the Gemini API key.

async Task< TResponse > Request< TResponse > (IGeminiPostRequest request)

Computes a POST request on the Gemini API.

async Task < TResponse > Request < TResponse > (IGeminiMultiPartPostRequest request)

Computes a multi-part POST request on the Gemini API.

async Task< TResponse > Request< TResponse > (IGeminiGetRequest request)

Computes a GET request on the Gemini API.

• async Task Request (IGeminiDeleteRequest request)

Computes a DELETE request on the Gemini API.

async Task< TResponse > StreamRequest< TResponse > (IGeminiStreamablePostRequest< TResponse > request)

Computes a streaming POST request on the Gemini API.

#### **Additional Inherited Members**

## **Properties inherited from**

Uralstech.UGemini.Utils.Singleton.Singleton< GeminiManager >

• static T Instance [get]

The active instance of type T.

## 7.41.1 Detailed Description

The class for accessing the Gemini API!

## 7.41.2 Member Function Documentation

#### 7.41.2.1 Request()

Computes a DELETE request on the Gemini API.

## **Parameters**

| request | The request object. |
|---------|---------------------|
|---------|---------------------|

#### **Exceptions**

| GeminiRequestException | Thrown when the API request fails. |
|------------------------|------------------------------------|
|------------------------|------------------------------------|

## 7.41.2.2 Request< TResponse >() [1/3]

```
\label{eq:async} \verb| Task< TResponse > Uralstech.UGemini.GeminiManager.Request< TResponse > ( \\ IGeminiGetRequest \ request) \\
```

Computes a GET request on the Gemini API.

## **Template Parameters**

#### TResponse

The response type. For example, a request of type Models.Generation.Chat.GeminiChatRequest corresponds to a response type of Models.Generation.Chat.GeminiChatResponse, and a request of type Models.CountTokens.GeminiTokenCountRequest corresponds to a response of type Models.CountTokens.GeminiTokenCountResponse.

#### **Parameters**

| request | The request object. |
|---------|---------------------|
|---------|---------------------|

## **Exceptions**

| GeminiRequestException | Thrown when the API request fails. |
|------------------------|------------------------------------|
|                        |                                    |

#### 7.41.2.3 Request < TResponse >() [2/3]

```
\label{eq:async_task} {\tt async\ Task<\ TResponse\ >\ Uralstech.UGemini.GeminiManager.Request<\ TResponse\ >\ (} \\ {\tt IGeminiMultiPartPostRequest\ } request)
```

Computes a multi-part POST request on the Gemini API.

## **Template Parameters**

#### TResponse

The response type. For example, a request of type Models.Generation.Chat.GeminiChatRequest corresponds to a response type of Models.Generation.Chat.GeminiChatResponse, and a request of type Models.CountTokens.GeminiTokenCountRequest corresponds to a response of type Models.CountTokens.GeminiTokenCountResponse.

#### **Parameters**

| request The r | request object. |
|---------------|-----------------|
|---------------|-----------------|

#### Returns

The computed response.

#### **Exceptions**

## 7.41.2.4 Request < TResponse >() [3/3]

Computes a POST request on the Gemini API.

## **Template Parameters**

## TResponse

The response type. For example, a request of type Models.Generation.Chat.GeminiChatRequest corresponds to a response type of Models.Generation.Chat.GeminiChatResponse, and a request of type Models.CountTokens.GeminiTokenCountRequest corresponds to a response of type Models.CountTokens.GeminiTokenCountResponse.

#### **Parameters**

| request The request object | t. |
|----------------------------|----|
|----------------------------|----|

#### Returns

The computed response.

## **Exceptions**

| GeminiRequestException | Thrown when the API request fails. |
|------------------------|------------------------------------|
| , , ,                  |                                    |

## 7.41.2.5 SetApiKey()

Sets the Gemini API key.

#### **Parameters**

| apiKey | The new API key. |
|--------|------------------|

## 7.41.2.6 StreamRequest< TResponse >()

Computes a streaming POST request on the Gemini API.

Use callbacks in the request object to receive the streamed data.

## **Template Parameters**

## TResponse

The response type. For example, a request of type Models.Generation.Chat.GeminiChatRequest corresponds to a response type of Models.Generation.Chat.GeminiChatResponse, and a request of type Models.CountTokens.GeminiTokenCountRequest corresponds to a response of type Models.CountTokens.GeminiTokenCountResponse.

### Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetriever.GeminiMetadataCondition Class Reference

**Parameters** 

request The request object.

#### **Exceptions**

| GeminiRequestException | Thrown when the API request fails. |
|------------------------|------------------------------------|
|------------------------|------------------------------------|

**Type Constraints** 

TResponse: IAppendableData<TResponse>

The documentation for this class was generated from the following file:

· UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Managers/GeminiManager.cs

### 7.42 Uralstech.UGemini.Models.Generation.QuestionAnswering. SemanticRetriever.GeminiMetadataCondition Class Reference

Filter condition applicable to a single key.

#### **Public Attributes**

GeminiMetadataConditionOperator Operation

Operator applied to the given key-value pair to trigger the condition.

• string StringValue = null

The string value to filter the metadata on.

• float? NumericValue = null

The numeric value to filter the metadata on.

#### 7.42.1 Detailed Description

Filter condition applicable to a single key.

#### 7.42.2 Member Data Documentation

#### 7.42.2.1 NumericValue

 $\label{thm:prop:condition} Float? Ural stech. U Gemini. Models. Generation. Question Answering. Semantic Retriever. Gemini Metadata \leftarrow Condition. Numeric Value = null$ 

The numeric value to filter the metadata on.

If this is provided, DO NOT provide StringValue.

The value type must be consistent with the value type defined in the field for the corresponding key. If the value types are not consistent, the result will be an empty set. When the CustomMetadata has a StringList value type, the filtering condition should use StringValue paired with an GeminiMetadataConditionOperator.Includes/GeminiMetadataConditionOperator.Excludes operation, otherwise the result will also be an empty set.

#### 7.42.2.2 StringValue

 $string \ Ural stech. UGemini. Models. Generation. Question \\ Answering. Semantic Retriever. GeminiMetadata \\ Condition. String Value = null$ 

The string value to filter the metadata on.

If this is provided, DO NOT provide NumericValue.

The value type must be consistent with the value type defined in the field for the corresponding key. If the value types are not consistent, the result will be an empty set. When the CustomMetadata has a StringList value type, the filtering condition should use StringValue paired with an GeminiMetadataConditionOperator.Includes/GeminiMetadataConditionOperator.Excludes operation, otherwise the result will also be an empty set.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Answer/Semantic
 — Retriever/GeminiMetadataCondition.cs

### 7.43 Uralstech.UGemini.Models.Generation.QuestionAnswering. SemanticRetriever.GeminiMetadataFilter Class Reference

User provided filter to limit retrieval based on Chunk or Document level metadata values.

#### **Public Attributes**

· string Key

The key of the metadata to filter on.

• GeminiMetadataCondition[] Conditions

The Conditions for the given key that will trigger this filter. Multiple Conditions are joined by logical ORs.

#### 7.43.1 Detailed Description

User provided filter to limit retrieval based on Chunk or Document level metadata values.

Example (genre = drama OR genre = action): key = "document.custom\_metadata.genre" conditions = [{stringValue = "drama", operation = EQUAL}, {stringValue = "action", operation = EQUAL}]

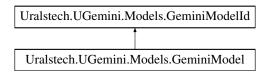
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Answer/Semantic
 — Retriever/GeminiMetadataFilter.cs

#### 7.44 Uralstech.UGemini.Models.GeminiModel Class Reference

Information about a Generative Language Model.

Inheritance diagram for Uralstech. UGemini. Models. Gemini Model:



#### **Public Attributes**

string Version

The version number of the model.

string DisplayName

The human-readable name of the model. E.g. "Chat Bison".

string Description

A short description of the model.

• int InputTokenLimit

Maximum number of input tokens allowed for this model.

int OutputTokenLimit

Maximum number of output tokens available for this model.

• string[] SupportedGenerationMethods

The model's supported generation methods.

float Temperature

Controls the randomness of the output.

float TopP

For Nucleus sampling.

• int TopK

For Top-k sampling.

#### Public Attributes inherited from Uralstech. UGemini. Models. Gemini Modelld

· string Name

The resource name of the Model.

string BaseModelId

The ID of the base model, pass this to the generation request.

#### **Static Public Attributes**

• static readonly GeminiModelld Gemini1 0ProVision = "gemini-pro-vision"

Note: Gemini 1.0 Pro Vision is deprecated. Use 1.5 Flash or 1.5 Pro instead.

Gemini 1.0 Pro Vision is a performance-optimized multimodal model that can perform visual-related tasks.

For example, 1.0 Pro Vision can generate image descriptions, identify objects present in images, provide

information about places or objects present in images, and more.

• static readonly GeminiModelld Gemini1 0Pro = "gemini-1.0-pro"

Gemini 1.0 Pro is an NLP model that handles tasks like multi-turn text and code chat, and code generation.

static readonly GeminiModelld Gemini1\_5Pro = "gemini-1.5-pro"

Gemini 1.5 Pro is a mid-size multimodal model that is optimized for a wide-range of reasoning tasks.

1.5 Pro can process large amounts of data at once, including 2 hours of video, 19 hours of audio,

codebases with 60,000 lines of code, or 2,000 pages of text.

static readonly GeminiModelld Gemini1\_5Flash = "gemini-1.5-flash"

Gemini 1.5 Flash is a fast and versatile multimodal model for scaling across diverse tasks.

static readonly GeminiModelId TextEmbedding004 = "text-embedding-004"

text-embedding-004 achieves a stronger retrieval performance and outperforms existing models with comparable dimensions, on the standard MTEB embedding benchmarks.

static readonly GeminiModelId Aqa = "aqa"

You can use the AQA model to perform Attributed Question-Answering (AQA)-related tasks over a document, corpus, or a set of passages. The AQA model returns answers to questions that are grounded in provided sources, along with estimating answerable probability.

#### Static Public Attributes inherited from Uralstech. UGemini. Models. Gemini Modelld

• const string **DefaultModelResourceLocation** = "models/"

The default resource location for all models.

#### **Additional Inherited Members**

#### Public Member Functions inherited from Uralstech. UGemini. Models. Gemini Modelld

GeminiModelId (string nameOrBaseModelId)

Creates a new GeminiModelld.

• GeminiModelId (string name, string baseModelId)

Creates a new GeminiModelld.

#### Static Public Member Functions inherited from Uralstech.UGemini.Models.GeminiModelId

• static implicit operator string (GeminiModelId model)

Gets the base model ID of the GeminiModelld.

• static implicit operator GeminiModelld (string nameOrBaseModelld)

Creates a new GeminiModelld with the full name of the model resource (see Name) or the unique ID of the base model.

#### 7.44.1 Detailed Description

Information about a Generative Language Model.

#### 7.44.2 Member Data Documentation

#### 7.44.2.1 Aqa

```
readonly GeminiModelId Uralstech.UGemini.Models.GeminiModel.Aqa = "aqa" [static]
```

You can use the AQA model to perform Attributed Question-Answering (AQA)-related tasks over a document, corpus, or a set of passages. The AQA model returns answers to questions that are grounded in provided sources, along with estimating answerable probability.

Supports text input.

#### 7.44.2.2 DisplayName

string Uralstech. UGemini. Models. Gemini Model. Display Name

The human-readable name of the model. E.g. "Chat Bison".

The name can be up to 128 characters long and can consist of any UTF-8 characters.

#### 7.44.2.3 Gemini1 0Pro

```
readonly GeminiModelId Uralstech.UGemini.Models.GeminiModel.Gemini1_OPro = "gemini-1.0-pro"
[static]
```

Gemini 1.0 Pro is an NLP model that handles tasks like multi-turn text and code chat, and code generation.

Supports text input.

#### 7.44.2.4 Gemini1\_0ProVision

```
readonly GeminiModelId Uralstech.UGemini.Models.GeminiModel.Gemini1_0ProVision = "gemini-pro-vision"
[static]
```

Note: Gemini 1.0 Pro Vision is deprecated. Use 1.5 Flash or 1.5 Pro instead.

Gemini 1.0 Pro Vision is a performance-optimized multimodal model that can perform visual-related tasks.

For example, 1.0 Pro Vision can generate image descriptions, identify objects present in images, provide information about places or objects present in images, and more.

information about places of objects present in images, and more

Supports image, video and text input.

#### 7.44.2.5 Gemini1\_5Flash

```
readonly GeminiModelId Uralstech.UGemini.Models.GeminiModel.Gemini1_5Flash = "gemini-1.↔
5-flash" [static]

Gemini 1.5 Flash is a fast and versatile multimodal model for scaling across diverse tasks.
```

Supports audio, image, video and text input.

#### 7.44.2.6 Gemini1\_5Pro

```
readonly GeminiModelId Uralstech.UGemini.Models.GeminiModel.Gemini1_5Pro = "gemini-1.5-pro" [static]

Gemini 1.5 Pro is a mid-size multimodal model that is optimized for a wide-range of reasoning tasks.

1.5 Pro can process large amounts of data at once, including 2 hours of video, 19 hours of audio, codebases with 60,000 lines of code, or 2,000 pages of text.
```

Supports audio, image, video and text input.

#### 7.44.2.7 SupportedGenerationMethods

```
string [] Uralstech.UGemini.Models.GeminiModel.SupportedGenerationMethods
```

The model's supported generation methods.

The method names are defined as Pascal case strings, such as <code>generateMessage</code> which correspond to API methods.

#### 7.44.2.8 Temperature

```
float Uralstech. UGemini. Models. Gemini Model. Temperature
```

Controls the randomness of the output.

Values can range over [0.0,2.0], inclusive. A higher value will produce responses that are more varied, while a value closer to

0.0 will typically result in less surprising responses from the model. This value specifies default to be used by the backend

while making the call to the model.

#### 7.44.2.9 TextEmbedding004

```
readonly GeminiModelId Uralstech.UGemini.Models.GeminiModel.TextEmbedding004 = "text-embedding-004"
[static]
```

text-embedding-004 achieves a stronger retrieval performance and outperforms existing models with comparable dimensions, on the standard MTEB embedding benchmarks.

Supports text input.

#### 7.44.2.10 TopK

int Uralstech.UGemini.Models.GeminiModel.TopK

For Top-k sampling.

Top-k sampling considers the set of topK most probable tokens. This value specifies default to be used by the backend while making the call

to the model. If unset, indicates the model doesn't use top-k sampling, and topK isn't allowed as a generation parameter.

#### 7.44.2.11 TopP

float Uralstech.UGemini.Models.GeminiModel.TopP

For Nucleus sampling.

Nucleus sampling considers the smallest set of tokens whose probability sum is at least topP. This value specifies default to be used

by the backend while making the call to the model.

#### 7.44.2.12 Version

string Uralstech. UGemini. Models. Gemini Model. Version

The version number of the model.

This represents the major version

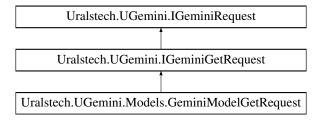
The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/GeminiModel.cs

### 7.45 Uralstech.UGemini.Models.GeminiModelGetRequest Class Reference

Gets information about a specific model. Return type is GeminiModel.

Inheritance diagram for Uralstech.UGemini.Models.GeminiModelGetRequest:



#### **Public Member Functions**

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

Returns

The URI.

• GeminiModelGetRequest (GeminiModelId modelId, bool useBetaApi=false)

Creates a new GeminiModelGetRequest.

#### **Public Attributes**

· string ApiVersion

The API version to use.

· string ModelName

The resource name of the model to get, in the format models/{model}.

#### 7.45.1 Detailed Description

Gets information about a specific model. Return type is GeminiModel.

#### 7.45.2 Constructor & Destructor Documentation

#### 7.45.2.1 GeminiModelGetRequest()

Creates a new GeminiModelGetRequest.

Some newer models do not work with this request unless through the Beta API.

#### **Parameters**

| modelld    | The ID of the model to get.          |
|------------|--------------------------------------|
| useBetaApi | Should the request use the Beta API? |

#### 7.45.3 Member Function Documentation

#### 7.45.3.1 GetEndpointUri()

```
string Uralstech.
UGemini.
Models.
Gemini<br/>ModelGetRequest.
GetEndpointUri ( {\tt GeminiRequestMetadata} \ metadata)
```

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

#### Returns

The URI.

Implements Uralstech. UGemini. IGeminiRequest.

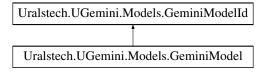
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Get/GeminiModelGetRequest.cs

#### 7.46 Uralstech.UGemini.Models.GeminiModelld Class Reference

Information about the unique ID of a Generative Language Model.

Inheritance diagram for Uralstech. UGemini. Models. Gemini Modelld:



#### **Public Member Functions**

GeminiModelId (string nameOrBaseModelId)

Creates a new GeminiModelld.

• GeminiModelId (string name, string baseModelId)

Creates a new GeminiModelld.

#### **Static Public Member Functions**

static implicit operator string (GeminiModelld model)

Gets the base model ID of the GeminiModelld.

• static implicit operator GeminiModelld (string nameOrBaseModelld)

Creates a new GeminiModelId with the full name of the model resource (see Name) or the unique ID of the base model.

#### **Public Attributes**

string Name

The resource name of the Model.

string BaseModelId

The ID of the base model, pass this to the generation request.

#### **Static Public Attributes**

• const string **DefaultModelResourceLocation** = "models/"

The default resource location for all models.

#### 7.46.1 Detailed Description

Information about the unique ID of a Generative Language Model.

#### 7.46.2 Constructor & Destructor Documentation

#### 7.46.2.1 GeminiModelld() [1/2]

Creates a new GeminiModelld.

#### **Parameters**

| nameOrBase← | The full name of the model resource (see Name) or the unique ID of the base model. |
|-------------|--|
| Modelld     |  |

#### 7.46.2.2 GeminiModelld() [2/2]

Creates a new GeminiModelld.

#### **Parameters**

| name    | The resource name of the Model, see Name. |
|---------|---|
| base←   | The ID of the base model.                 |
| Modelld |   |

#### 7.46.3 Member Data Documentation

#### 7.46.3.1 Name

string Uralstech. UGemini. Models. Gemini Model Id. Name

The resource name of the Model.

Format: models/{model} with a {model} naming convention of: "{baseModelId}-{version}"

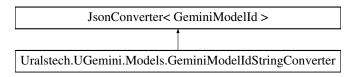
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/GeminiModelId.cs

### 7.47 Uralstech.UGemini.Models.GeminiModelldStringConverter Class Reference

Custom JSON converter to handle conversion of GeminiModelld to a single string value and vice-versa.

Inheritance diagram for Uralstech.UGemini.Models.GeminiModelIdStringConverter:



#### **Public Member Functions**

- override GeminiModelld ReadJson (JsonReader reader, Type objectType, GeminiModelld existingValue, bool hasExistingValue, JsonSerializer serializer)
- override void **WriteJson** (JsonWriter writer, GeminiModelld value, JsonSerializer serializer)

#### 7.47.1 Detailed Description

Custom JSON converter to handle conversion of GeminiModelId to a single string value and vice-versa.

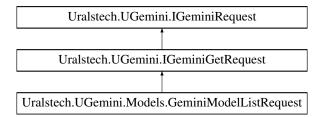
The documentation for this class was generated from the following file:

 $\bullet \ \ UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/GeminiModelldStringConverter.cs$ 

### 7.48 Uralstech.UGemini.Models.GeminiModelListRequest Class Reference

Requests metadata for all existing models. Return type is GeminiModelListResponse.

 $Inheritance\ diagram\ for\ Ural stech. UGemini. Models. Gemini Model List Request:$ 



#### **Public Member Functions**

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### **Parameters**

metadata The metadata of the request to be carried out on the URI.

Returns

The URI.

• GeminiModelListRequest (bool useBetaApi=false)

Creates a new GeminiModelListRequest.

#### **Public Attributes**

· string ApiVersion

The API version to use.

• int MaxResponseModels = 50

The maximum number of Models to return (per page).

• string **PageToken** = string.Empty

A page token from a previous models.list call.

#### 7.48.1 Detailed Description

Requests metadata for all existing models. Return type is GeminiModelListResponse.

#### 7.48.2 Constructor & Destructor Documentation

#### 7.48.2.1 GeminiModelListRequest()

```
\label{thm:continuous} \mbox{Uralstech.UGemini.Models.GeminiModelListRequest.GeminiModelListRequest} \  \, ( \mbox{bool } useBetaApi = \mbox{false})
```

Creates a new GeminiModelListRequest.

Some newer models do not work with this request unless through the Beta API.

#### **Parameters**

```
useBetaApi Should the request use the Beta API?
```

#### 7.48.3 Member Function Documentation

#### 7.48.3.1 GetEndpointUri()

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

Returns

The URI.

Implements Uralstech.UGemini.IGeminiRequest.

#### 7.48.4 Member Data Documentation

#### 7.48.4.1 MaxResponseModels

int Uralstech.UGemini.Models.GeminiModelListRequest.MaxResponseModels = 50

The maximum number of Models to return (per page).

This method returns at most 1000 models per page, even if you pass a larger MaxResponseModels.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/List/GeminiModelListRequest.cs

### 7.49 Uralstech.UGemini.Models.GeminiModelListResponse Class Reference

The response for a GeminiModelListResponse call.

#### **Public Attributes**

• GeminiModel[] Models

The list of models.

• string NextPageToken

A token that can be sent as a GeminiModelListRequest.PageToken into a subsequent GeminiModelListRequest call.

#### 7.49.1 Detailed Description

The response for a GeminiModelListResponse call.

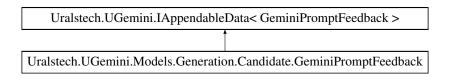
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/List/GeminiModelListResponse.cs

### 7.50 Uralstech.UGemini.Models.Generation.Candidate.GeminiPrompt Feedback Class Reference

A set of the feedback metadata for the prompt specified in a generation request.

Inheritance diagram for Uralstech. UGemini. Models. Generation. Candidate. Gemini Prompt Feedback:



#### **Public Member Functions**

void Append (GeminiPromptFeedback data)

#### **Public Member Functions inherited from**

Uralstech.UGemini.IAppendableData < GeminiPromptFeedback >

void Append (T data)

Appends the data to the current IAppendableData<T>.

#### **Public Attributes**

• GeminiBlockReason BlockReason

If set, the prompt was blocked and no candidates are returned. Rephrase your prompt.

GeminiSafetyRating[] SafetyRatings

Ratings for safety of the prompt. There is at most one rating per category.

#### 7.50.1 Detailed Description

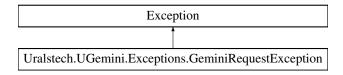
A set of the feedback metadata for the prompt specified in a generation request.

The documentation for this class was generated from the following file:

### 7.51 Uralstech.UGemini.Exceptions.GeminiRequestException Class Reference

Thrown when a Gemini API request fails.

Inheritance diagram for Uralstech. UGemini. Exceptions. GeminiRequest Exception:



#### **Public Attributes**

• Uri RequestEndpoint

The endpoint of the failed request.

long RequestErrorCode

The response code returned by the request.

string RequestError

The name of the request's error.

• string RequestErrorMessage

The request's error message.

bool IsBetaApi

Was the request on a beta API?

#### 7.51.1 Detailed Description

Thrown when a Gemini API request fails.

The documentation for this class was generated from the following file:

· UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Exceptions/GeminiRequestException.cs

#### 7.52 Uralstech. UGemini. Gemini Request Metadata Class Reference

Metadata about a computation request.

#### **Public Attributes**

· bool IsStreaming

Is the request being streamed?

#### 7.52.1 Detailed Description

Metadata about a computation request.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/GeminiRequestMetadata.cs

### 7.53 Uralstech.UGemini.Models.Generation.Safety.GeminiSafetyRating Class Reference

Safety rating for a piece of content.

#### **Public Attributes**

• GeminiSafetyHarmCategory Category

The category for this rating.

GeminiHarmProbability

The probability of harm for this content.

· bool Blocked

Was this content blocked because of this rating?

#### 7.53.1 Detailed Description

Safety rating for a piece of content.

The safety rating contains the category of harm and the harm probability level in that category for a piece of content is classified for safety across a number of harm categories and the probability of the harm classification is included here.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Safety/GeminiSafety
 — Rating.cs

### 7.54 Uralstech.UGemini.Models.Generation.Safety.GeminiSafetySettings Class Reference

Safety setting, affecting the safety-blocking behavior.

#### **Public Attributes**

GeminiSafetyHarmCategory Category

The category for this setting.

GeminiSafetyHarmBlockThreshold Threshold

Controls the probability threshold at which harm is blocked.

#### 7.54.1 Detailed Description

Safety setting, affecting the safety-blocking behavior.

Passing a safety setting for a category changes the allowed probability that content is blocked.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Safety/GeminiSafety
 Settings.cs

### 7.55 Uralstech.UGemini.Models.Generation.Schema.GeminiSchema Class Reference

The Schema object allows the definition of input and output data types. These types can be objects, but also primitives and arrays. Represents a select subset of an OpenAPI 3.0 schema object.

#### **Public Attributes**

GeminiSchemaDataType Type

Data type.

• GeminiSchemaDataFormat Format = GeminiSchemaDataFormat.Unspecified

The format of the data. This is used only for primitive datatypes.

• string **Description** = null

A brief description of the parameter. This could contain examples of use. Parameter description may be formatted as Markdown.

• bool? Nullable = null

Indicates if the value may be null.

string[] Enum = null

Possible values of the element of GeminiSchemaDataType.String with enum format.

• long? MaxItems = null

Optional. Maximum number of the elements for GeminiSchemaDataType.Array.

• Dictionary< string, GeminiSchema > Properties = null

The properties of GeminiSchemaDataType.Object.

string[] Required = null

Required properties of GeminiSchemaDataType.Object.

• GeminiSchema Items = null

Schema of the elements of GeminiSchemaDataType.Array.

#### 7.55.1 Detailed Description

The Schema object allows the definition of input and output data types. These types can be objects, but also primitives and arrays. Represents a select subset of an OpenAPI 3.0 schema object.

#### 7.55.2 Member Data Documentation

#### 7.55.2.1 Enum

```
string [] Uralstech.UGemini.Models.Generation.Schema.GeminiSchema.Enum = null
```

Possible values of the element of GeminiSchemaDataType.String with enum format.

For example we can define an Enum Direction as:

```
GeminiSchema enumSchema = new()
{
    Type = GeminiSchemaDataType.String,
    Format = GeminiSchemaDataFormat.Enum,
    Enum = new string[]
    {
        "EAST",
        "NORTH",
        "SOUTH",
        "WEST",
    },
}
```

The documentation for this class was generated from the following file:

### 7.56 Uralstech.UGemini.Models.Content.Attribution.GeminiSemantic RetrieverChunk Class Reference

Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequest using Semantic← RetrieverConfig.

#### **Public Attributes**

· string Source

Name of the source matching the request's SemanticRetrieverConfig.source. Example: corpora/123 or corpora/123/documents/abc.

string Chunk

Name of the Chunk containing the attributed text. Example: corpora/123/documents/abc/chunks/xyz.

#### 7.56.1 Detailed Description

Identifier for a Chunk retrieved via Semantic Retriever specified in the GenerateAnswerRequest using Semantic← RetrieverConfig.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/Attribution/Gemini
 — SemanticRetrieverChunk.cs

# 7.57 Uralstech.UGemini.Models.Generation.QuestionAnswering. SemanticRetriever.GeminiSemanticRetrieverConfig Class Reference

Configuration for retrieving grounding content from a Corpus or Document created using the Semantic Retriever

#### **Public Attributes**

· string Source

Name of the resource for retrieval, e.g. corpora/123 or corpora/123/documents/abc.

GeminiContent Query

Query to use for similarity matching Chunks in the given resource.

• GeminiMetadataFilter[] MetadataFilters = null

Filters for selecting Documents and/or Chunks from the resource.

• int MaxChunksCount = -1

Maximum number of relevant Chunks to retrieve.

• float MinimumRelevanceScore = -1f

Minimum relevance score for retrieved relevant Chunks.

#### 7.57.1 Detailed Description

Configuration for retrieving grounding content from a Corpus or Document created using the Semantic Retriever API.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Answer/Semantic
 — Retriever/GeminiSemanticRetrieverConfig.cs

#### 7.58 Uralstech. UGemini. Status. Gemini Status Class Reference

The GeminiStatus type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by gRPC.

#### **Public Attributes**

· int Code

The status code, which should be an enum value of google.rpc.Code.

string Message

A developer-facing error message, which should be in English.

GeminiStatusDetails[] Details

A list of messages that carry the error details. There is a common set of message types for APIs to use.

#### 7.58.1 Detailed Description

The GeminiStatus type defines a logical error model that is suitable for different programming environments, including REST APIs and RPC APIs. It is used by gRPC.

Each GeminiStatus message contains three pieces of data: error code, error message, and error details.

#### 7.58.2 Member Data Documentation

#### 7.58.2.1 Message

string Uralstech.UGemini.Status.GeminiStatus.Message

A developer-facing error message, which should be in English.

Any user-facing error message should be localized and sent in the google.rpc.Status.details field, or localized by the client.

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Status/GeminiStatus.cs

#### 7.59 Uralstech.UGemini.Status.GeminiStatusDetails Class Reference

An object containing fields of an arbitrary type.

#### **Public Attributes**

· string Type

Contains a URI identifying the type.

Dictionary< string, JToken > Data

The actual details of the GeminiStatusDetails object.

#### 7.59.1 Detailed Description

An object containing fields of an arbitrary type.

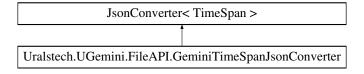
The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Status/GeminiStatusDetails.cs

### 7.60 Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter Class Reference

Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan.

Inheritance diagram for Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter:



#### **Public Member Functions**

override TimeSpan ReadJson (JsonReader reader, Type objectType, TimeSpan existingValue, bool has

 ExistingValue, JsonSerializer serializer)

override void WriteJson (JsonWriter writer, TimeSpan value, JsonSerializer serializer)

#### 7.60.1 Detailed Description

Custom JSON converter to convert a time string of a format like "10.334s" to a TimeSpan.

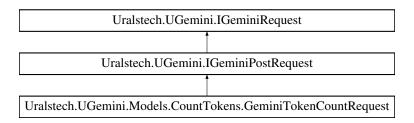
The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Files/GeminiTimeSpanJsonConverter.cs

# 7.61 Uralstech.UGemini.Models.CountTokens.GeminiTokenCount Request Class Reference

Request to count tokens in given content.

Inheritance diagram for Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest:



#### **Public Member Functions**

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

Returns

The URI.

• GeminiTokenCountRequest (GeminiModelId model, bool useBetaApi=false)

Creates a new GeminiTokenCountRequest.

• string GetUtf8EncodedData ()

Converts the request object to a UTF-8 encoded string. Returns

The string data.

#### **Public Attributes**

• GeminiContent[] Contents = null

The input given to the model as a prompt. This field is ignored when CompleteRequest is set.

• GeminiChatRequest CompleteRequest = null

The overall input given to the model. CountTokens will count prompt, function calling, etc.

• GeminiModelld Model

The model to use.

string ApiVersion

The API version to use.

#### **Properties**

string ContentType [get]

The MIME type of the request content.

#### Properties inherited from Uralstech.UGemini.IGeminiPostRequest

#### 7.61.1 Detailed Description

Request to count tokens in given content.

#### 7.61.2 Constructor & Destructor Documentation

#### 7.61.2.1 GeminiTokenCountRequest()

Creates a new GeminiTokenCountRequest.

#### **Parameters**

| model      | The model to use.                    |
|------------|--------------------------------------|
| useBetaApi | Should the request use the Beta API? |

#### 7.61.3 Member Function Documentation

#### 7.61.3.1 GetEndpointUri()

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

#### Returns

The URI.

Implements Uralstech. UGemini. IGeminiRequest.

#### 7.61.3.2 GetUtf8EncodedData()

```
\verb|string Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest.GetUtf8EncodedData ()| \\
```

Converts the request object to a UTF-8 encoded string.

#### Returns

The string data.

 $Implements\ Ural stech. UGemini. IGemini Post Request.$ 

#### 7.61.4 Property Documentation

#### 7.61.4.1 ContentType

string Uralstech. UGemini. Models. Count Tokens. Gemini Token Count Request. Content Type [get]

The MIME type of the request content.

Implements Uralstech.UGemini.IGeminiPostRequest.

The documentation for this class was generated from the following file:

## 7.62 Uralstech.UGemini.Models.CountTokens.GeminiTokenCount Response Class Reference

A response from CountTokens.

#### **Public Attributes**

· int TotalTokens

The number of tokens that the model tokenizes the prompt into.

#### 7.62.1 Detailed Description

A response from CountTokens.

#### 7.62.2 Member Data Documentation

#### 7.62.2.1 TotalTokens

int Uralstech. UGemini. Models. CountTokens. GeminiToken CountResponse. Total Tokens

The number of tokens that the model tokenizes the prompt into.

Always non-negative. When cachedContent is set, this is still the total effective prompt size.l.e.this includes the number of tokens in the cached content.

Cached content is not supported in this package.

The documentation for this class was generated from the following file:

### 7.63 Uralstech.UGemini.Models.Generation.Tools.Declaration.Gemini — Tool Class Reference

Tool details that the model may use to generate response.

#### **Public Attributes**

• GeminiFunctionDeclaration[] FunctionDeclarations = null

A list of FunctionDeclarations available to the model that can be used for function calling.

• GeminiCodeExecution CodeExecution = null

Enables the model to execute code as part of generation.

#### 7.63.1 Detailed Description

Tool details that the model may use to generate response.

A Tool is a piece of code that enables the system to interact with external systems to perform an action, or set of actions, outside of knowledge and scope of the model.

#### 7.63.2 Member Data Documentation

#### 7.63.2.1 FunctionDeclarations

GeminiFunctionDeclaration [] Uralstech.UGemini.Models.Generation.Tools.Declaration.Gemini↔
Tool.FunctionDeclarations = null

A list of FunctionDeclarations available to the model that can be used for function calling.

The model or system does not execute the function. Instead the defined function may be returned as a [GeminiFunctionCall][GeminiContent.GeminiContentPart.FunctionCall] with arguments to the client side for execution. The model may decide to call a subset of these functions by populating [GeminiFunctionCall][GeminiContent.GeminiContentPart.FunctionCall] in the response.

The next conversation turn may contain a [GeminiFunctionResponse][GeminiContent.GeminiContentPart.FunctionResponse] with the [GeminiContent.Role] GeminiRole.ToolResponse generation context for the next model turn.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/Declaration/Gemini

Tool.cs

### 7.64 Uralstech.UGemini.Models.Generation.Tools.Declaration.Gemini — ToolConfiguration Class Reference

The Tool configuration containing parameters for specifying Tool use in the request.

#### **Static Public Member Functions**

• static GeminiToolConfiguration GetConfiguration (GeminiFunctionCallingMode callingMode, string[] allowedFunctions=null)

Creates a new GeminiToolConfiguration.

#### **Public Attributes**

• GeminiFunctionCallingConfiguration FunctionCallingConfig = null Function calling config.

#### 7.64.1 Detailed Description

The Tool configuration containing parameters for specifying Tool use in the request.

#### 7.64.2 Member Function Documentation

#### 7.64.2.1 GetConfiguration()

Creates a new GeminiToolConfiguration.

#### **Parameters**

| callingMode      | Specifies the mode in which function calling should execute.                           |
|------------------|--|
| allowedFunctions | A set of function names that, when provided, limits the functions the model will call. |

#### Returns

The documentation for this class was generated from the following file:

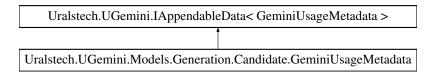
UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Tools/Declaration/Gemini

ToolConfiguration.cs

## 7.65 Uralstech.UGemini.Models.Generation.Candidate.GeminiUsage Metadata Class Reference

Metadata on the generation request's token usage.

Inheritance diagram for Uralstech. UGemini. Models. Generation. Candidate. Gemini Usage Metadata:



#### **Public Member Functions**

• void Append (GeminiUsageMetadata data)

#### **Public Member Functions inherited from**

#### Uralstech.UGemini.IAppendableData < GeminiUsageMetadata >

void Append (T data)

Appends the data to the current IAppendableData<T>.

#### **Public Attributes**

• int PromptTokenCount

Number of tokens in the prompt. When cachedContent is set, this is still the total effective prompt size. I.e. this includes the number of tokens in the cached content.

int CachedContentTokenCount

Number of tokens in the cached part of the prompt, i.e. in the cached content.

• int CandidatesTokenCount

Total number of tokens across the generated candidates.

· int TotalTokenCount

Total token count for the generation request (prompt + candidates).

#### 7.65.1 Detailed Description

Metadata on the generation request's token usage.

#### 7.65.2 Member Data Documentation

#### 7.65.2.1 PromptTokenCount

int Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMetadata.PromptTokenCount

Number of tokens in the prompt. When cachedContent is set, this is still the total effective prompt size. I.e. this includes the number of tokens in the cached content.

Cached content is not supported in this package.

The documentation for this class was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Generation/Candidate/Gemini

UsageMetadata.cs

### 7.66 Uralstech.UGemini.IAppendableData< T > Interface Template Reference

An interface for data that is to be appended to at runtime.

#### **Public Member Functions**

void Append (T data)

Appends the data to the current IAppendableData<T>.

#### 7.66.1 Detailed Description

An interface for data that is to be appended to at runtime.

**Template Parameters** 

T The type that can be appended to the IAppendableData<T>.

#### 7.66.2 Member Function Documentation

#### 7.66.2.1 Append()

```
void Uralstech.UGemini.IAppendableData< T >.Append ( T data)
```

Appends the *data* to the current IAppendableData<T>.

#### **Parameters**

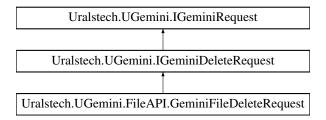
The documentation for this interface was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/IAppendableData.cs

#### 7.67 Uralstech.UGemini.IGeminiDeleteRequest Interface Reference

All Gemini API DELETE requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiDeleteRequest:



#### Additional Inherited Members

#### Public Member Functions inherited from Uralstech. UGemini. IGeminiRequest

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### 7.67.1 Detailed Description

All Gemini API DELETE requests must inherit from this interface.

The documentation for this interface was generated from the following file:

UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiDeleteRequest.cs

#### 7.68 Uralstech. UGemini. IGeminiGet Request Interface Reference

All Gemini API GET requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiGetRequest:



#### **Additional Inherited Members**

#### Public Member Functions inherited from Uralstech. UGemini. IGemini Request

string GetEndpointUri (GeminiRequestMetadata metadata)
 Gets the URI to the API endpoint.

#### 7.68.1 Detailed Description

All Gemini API GET requests must inherit from this interface.

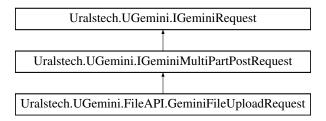
The documentation for this interface was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiGetRequest.cs

### 7.69 Uralstech.UGemini.IGeminiMultiPartPostRequest Interface Reference

All Gemini API POST requests with multi-part data must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiMultiPartPostRequest:



#### **Public Member Functions**

string GetUtf8EncodedData (string dataSeperator)
 Converts the request object to a UTF-8 encoded multi-part string.

#### Public Member Functions inherited from Uralstech. UGemini. IGeminiRequest

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### 7.69.1 Detailed Description

All Gemini API POST requests with multi-part data must inherit from this interface.

#### 7.69.2 Member Function Documentation

#### 7.69.2.1 GetUtf8EncodedData()

```
\label{thm:condition} string \ Ural stech. UGemini. IGeminiMultiPartPostRequest. GetUtf8 Encoded Data \ (string \ dataSeperator)
```

Converts the request object to a UTF-8 encoded multi-part string.

#### **Parameters**

| dataSeperator | The boundary to seperate each part of the data. |
|---------------|---|
|---------------|---|

Returns

The string data.

Implemented in Uralstech.UGemini.FileAPI.GeminiFileUploadRequest.

The documentation for this interface was generated from the following file:

 $\bullet \ \ UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiMultiPartPostRequest.cs$ 

#### 7.70 Uralstech.UGemini.IGeminiPostRequest Interface Reference

All Gemini API POST requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiPostRequest:



#### **Public Member Functions**

string GetUtf8EncodedData ()

Converts the request object to a UTF-8 encoded string.

#### Public Member Functions inherited from Uralstech.UGemini.IGeminiRequest

string GetEndpointUri (GeminiRequestMetadata metadata)
 Gets the URI to the API endpoint.

#### **Properties**

• string ContentType [get]

The MIME type of the request content.

#### 7.70.1 Detailed Description

All Gemini API POST requests must inherit from this interface.

#### 7.70.2 Member Function Documentation

#### 7.70.2.1 GetUtf8EncodedData()

```
string Uralstech.UGemini.IGeminiPostRequest.GetUtf8EncodedData ()
```

Converts the request object to a UTF-8 encoded string.

#### Returns

The string data.

Implemented in Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest, Uralstech.UGemini.Models.Embedding.GeminiUralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest, and Uralstech.UGemini.Models.Generation.QuestionAnsweri

#### 7.70.3 Property Documentation

#### 7.70.3.1 ContentType

```
string Uralstech.UGemini.IGeminiPostRequest.ContentType [get]
```

The MIME type of the request content.

Implemented in Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest, Uralstech.UGemini.Models.Embedding.GeminiUralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest, and Uralstech.UGemini.Models.Generation.QuestionAnsweri

The documentation for this interface was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiPostRequest.cs

#### 7.71 Uralstech.UGemini.IGeminiRequest Interface Reference

All Gemini API requests must inherit from this interface.

Inheritance diagram for Uralstech. UGemini. IGeminiRequest:



#### **Public Member Functions**

string GetEndpointUri (GeminiRequestMetadata metadata)
 Gets the URI to the API endpoint.

#### 7.71.1 Detailed Description

All Gemini API requests must inherit from this interface.

#### 7.71.2 Member Function Documentation

#### 7.71.2.1 GetEndpointUri()

Gets the URI to the API endpoint.

#### **Parameters**

| metadata | The metadata of the request to be carried out on the URI. |
|----------|---|
|----------|---|

#### Returns

The URI.

Implemented in Uralstech. UGemini. File API. Gemini File Delete Request, Uralstech. UGemini. File API. Gemini File Get Request, Uralstech. UGemini. File API. Gemini File Upload Request, Uralstech. UGemini. Models. Embedding. Gemini Batch Embed Content Request, Uralstech. UGemini. Models. Embedding. Gemini Embed Curalstech. UGemini. Models. Gemini Mo

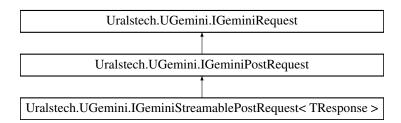
The documentation for this interface was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Requests/IGeminiRequest.cs

### 7.72 Uralstech.UGemini.IGeminiStreamablePostRequest< TResponse > Interface Template Reference

All streamed Gemini API POST requests must inherit from this interface.

Inheritance diagram for Uralstech.UGemini.IGeminiStreamablePostRequest< TResponse >:



#### **Public Member Functions**

Task ProcessStreamedData (List< JToken > allEvents, JToken lastEvent)
 Callback to process Server Sent Events (SSEs).

#### Public Member Functions inherited from Uralstech.UGemini.IGeminiPostRequest

string GetUtf8EncodedData ()
 Converts the request object to a UTF-8 encoded string.

#### Public Member Functions inherited from Uralstech. UGemini. IGeminiRequest

• string GetEndpointUri (GeminiRequestMetadata metadata)

Gets the URI to the API endpoint.

#### **Properties**

• TResponse **StreamedResponse** [get] The response being streamed.

#### Properties inherited from Uralstech.UGemini.IGeminiPostRequest

string ContentType [get]
 The MIME type of the request content.

#### 7.72.1 Detailed Description

All streamed Gemini API POST requests must inherit from this interface.

#### **Template Parameters**

| TResponse   The streamed response | type. |
|-----------------------------------|-------|
|-----------------------------------|-------|

**Type Constraints** 

TResponse: IAppendableData<TResponse>

#### 7.72.2 Member Function Documentation

#### 7.72.2.1 ProcessStreamedData()

Callback to process Server Sent Events (SSEs).

#### **Parameters**

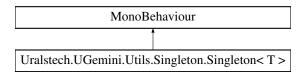
| allEvents | All previously sent SSEs. |
|-----------|---------------------------|
| lastEvent | The latest SSE.           |

The documentation for this interface was generated from the following file:

### 7.73 Uralstech.UGemini.Utils.Singleton.Singleton< T > Class Template Reference

Utility class to make inheriting types singletons.

 $Inheritance\ diagram\ for\ Uralstech. UGemini. Utils. Singleton. Singleton < T>:$ 



#### **Properties**

• static T Instance [get]

The active instance of type T.

#### 7.73.1 Detailed Description

Utility class to make inheriting types singletons.

#### **Template Parameters**

 $T \mid$  The type to be made a singleton.

**Type Constraints** 

#### T: Component

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Utils/Singleton.cs

### 7.74 Uralstech.UGemini.Models.Content.UnityExtensions Class Reference

Extensions for Unity types.

#### **Static Public Member Functions**

- static byte[] ToWAV (this AudioClip clip)
  - Converts the given AudioClip to WAV bytes.
- static string ToBase64WAV (this AudioClip clip)

Converts the given AudioClip to a WAV Base64 encoded string.

- static string ToBase64PNG (this Texture2D image)
  - Converts the given Texture2D to a PNG Base64 encoded string.
- static string ToBase64JPEG (this Texture2D image)

Converts the given Texture2D to a JPEG Base64 encoded string.

#### 7.74.1 Detailed Description

Extensions for Unity types.

#### 7.74.2 Member Function Documentation

#### 7.74.2.1 ToBase64JPEG()

```
static string Uralstech. UGemini. Models. Content. Unity Extensions. To Base 64 JPEG ( this Texture 2D image) [static]
```

Converts the given Texture2D to a JPEG Base64 encoded string.

#### **Parameters**

```
image The Texture2D.
```

Returns

The Base64 encoded string.

#### 7.74.2.2 ToBase64PNG()

```
static string Uralstech.
UGemini.
Models.Content.UnityExtensions.ToBase64PNG ( this Texture2D image) [static]
```

Converts the given Texture2D to a PNG Base64 encoded string.

#### **Parameters**

| image | The Texture2D. |
|-------|----------------|
|-------|----------------|

#### Returns

The Base64 encoded string.

#### 7.74.2.3 ToBase64WAV()

```
static string Uralstech.
UGemini.
Models.Content.
UnityExtensions.ToBase64WAV ( this AudioClip clip) [static]
```

Converts the given AudioClip to a WAV Base64 encoded string.

#### **Parameters**

```
clip The AudioClip.
```

#### Returns

The Base64 encoded string.

#### 7.74.2.4 ToWAV()

```
static byte[] Uralstech.UGemini.Models.Content.UnityExtensions.ToWAV ( this AudioClip clip) [static]
```

Converts the given AudioClip to WAV bytes.

#### **Parameters**

```
clip The AudioClip.
```

#### Returns

The WAV encoded byte array.

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Data/Models/Content/UnityExtensions.cs

#### 7.75 Uralstech.UGemini.Utils.Web.WebRequestHelper Class Reference

Extensions for the UnityWebRequest type.

#### **Static Public Member Functions**

static async Task SendStreamingWebRequest (this UnityWebRequest webRequest, Func< List< JToken >,
 JToken, Task > serverSentEventHandler)

Sends a streaming web request.

#### 7.75.1 Detailed Description

Extensions for the UnityWebRequest type.

#### 7.75.2 Member Function Documentation

#### 7.75.2.1 SendStreamingWebRequest()

Sends a streaming web request.

#### **Parameters**

| webRequest             | The request to send.  |
|------------------------|---|
| serverSentEventHandler | The callback to handle Server Sent Events (SSEs). Parameters: |
|                        | List <jtoken> : All SSEs, excluding the latest one.</jtoken>  |
|                        | JToken : The latest SSE.     Return type: Task                |

The documentation for this class was generated from the following file:

• UGemini/Packages/com.uralstech.ugemini/Runtime/Scripts/Utils/WebRequestHelper.cs

### Index

| Abstractive                                      | AudioWAV   |
|--|--|
| Uralstech.UGemini.Models.Generation.QuestionAns  | sweringUralstech.UGemini, 28   |
| 35   | Auto   |
| Active   | Uralstech.UGemini.Models.Generation.Tools.Declaration,   |
| Uralstech.UGemini.FileAPI, 29                    | 41   |
| AllowedFunctionNames                             |  |
| Uralstech.UGemini.Models.Generation.Tools.Declar | rateaseeARMFenctionCallingConfiguration,   |
| 86   | Uralstech.UGemini.Models.Generation.Schema,  |
| Answer   | 39   |
| Uralstech.UGemini.Models.Generation.QuestionAns  | sweinକ୍ୟGeminiAnswerResponse.  |
| 47   | Uralstech.UGemini.Models.Generation.Schema,  |
| AnswerableProbability                            | 39   |
| Uralstech.UGemini.Models.Generation.QuestionAns  | swell96kl.ĠaminiAnswerResponse.  |
| 47   | Uralstech.UGemini.Models.Generation.Candidate,   |
| Any  | 34   |
| Uralstech.UGemini.Models.Generation.Tools.Declar | ration. Uralstech.UGemini.Models.Generation.Safety, 37   |
| 41   | Boolean  |
|  | Uralstech.UGemini.Models.Generation.Schema,  |
| Append   | 39   |
| Uralstech.UGemini.IAppendableData< T >, 121      | Breaking Changes Notice, 1   |
| ApplicationJSON                                  | Dieaking Onlinges Notice, 1  |
| Uralstech.UGemini, 28                            | CachedContent  |
| ApplicationRTF                                   | Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest,  |
| Uralstech.UGemini, 28                            | 55   |
| ApplicationXJavaScript                           | CandidateCount   |
| Uralstech.UGemini, 28                            |  |
| ApplicationXPython                               | Uralstech.UGemini.Models.Generation.GeminiGenerationConfigurati  |
| Uralstech.UGemini, 28                            | 88<br>- O'' - M  |
| ApplicationXTypeScript                           | CitationMetadata   |
| Uralstech.UGemini, 28                            | Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate,   |
| Aqa  | 52   |
| Uralstech.UGemini.Models.GeminiModel, 99         | Classification   |
| Arguments  | Uralstech.UGemini.Models.Embedding, 32   |
| Uralstech.UGemini.Models.Generation.Tools.Gemin  | niFGHetteriegii.   |
| 85   | Uralstech.UGemini.Models.Embedding, 32   |
| Array  | Contents   |
| Uralstech.UGemini.Models.Generation.Schema,      | Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest, 55   |
| Assistant  | Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAn |
|  | 45   |
| Uralstech.UGemini.Models.Content, 31             | ContentType  |
| AudioAAC   | Uralstech.UGemini.GeminiContentTypeExtensions,   |
| Uralstech.UGemini, 28                            | 68   |
| AudioAIFF  | Uralstech.UGemini.IGeminiPostRequest, 124  |
| Uralstech.UGemini, 28                            | Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest   |
| AudioFLAC  | 117  |
| Uralstech.UGemini, 28                            | Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentF  |
| AudioMP3   | 51   |
| Uralstech.UGemini, 28                            |  |
| AudioOGG   | Uralstech.UGemini.Models.Embedding.GeminiEmbedContentReque   |

Uralstech.UGemini, 28

AudioOGG

| Uralstech.UGemini.Models.Generation.QuestionAns   | wering <b>L©ælsteriArls@enReiqMexd</b> els.Content.GeminiContentPart,  |
|---|--|
| 40  | 07   |
| Dangerous   | Gemini1_0Pro   |
| Uralstech.UGemini.Models.Generation.Safety, 38    | Uralstech.UGemini.Models.GeminiModel, 99   |
| DangerousContent                                  | Gemini1_0ProVision   |
| Uralstech.UGemini.Models.Generation.Safety, 38    | Uralstech.UGemini.Models.GeminiModel, 99   |
| Date  | Gemini1_5Flash   |
| Uralstech.UGemini.Models.Generation.Schema,       | Uralstech.UGemini.Models.GeminiModel, 99   |
| 39  | Gemini1_5Pro Uralstech.UGemini.Models.GeminiModel, 100   |
| DateTime  | GeminiAnswerRequest  |
| Uralstech.UGemini.Models.Generation.Schema,       | Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAr   |
| DeadlineExceeded                                  | 44   |
| Uralstech.UGemini.Models.Generation.Tools.CodeE   |  |
| 40  | Uralstech.UGemini.Models.Generation.QuestionAnswering,   |
| Derogatory  | 34   |
| Uralstech.UGemini.Models.Generation.Safety, 38    | GeminiBatchEmbedContentRequest   |
| DisplayName                                       | Ur als tech. UGe mini. Models. Embedding. Ge miniBatch Embed Content Foundation of the content |
| Uralstech.UGemini.Models.GeminiModel, 99          | 50   |
| Double  | GeminiBlockReason  |
| Uralstech.UGemini.Models.Generation.Schema,       | Uralstech.UGemini.Models.Generation.Safety, 36   |
| 39  | GeminiChatRequest  |
| Enum  | Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest,  |
| Uralstech.UGemini.Models.Generation.Schema,       | 54 GeminiCodeExecutionLanguage   |
| 39  | Uralstech.UGemini.Models.Generation.Tools.CodeExecution,   |
| Uralstech.UGemini.Models.Generation.Schema.Gen    |  |
| 111   | GeminiCodeExecutionOutcome   |
| Equal   | Uralstech.UGemini.Models.Generation.Tools.CodeExecution,   |
| Uralstech.UGemini.Models.Generation.QuestionAns   |  |
| 36  | GeminiContentType  |
| Excludes  | Uralstech.UGemini, 28  |
| Uralstech.UGemini.Models.Generation.QuestionAns   | -  |
| 36  | Uralstech.UGemini.Models.Embedding.GeminiEmbedContentReque   |
| Extractive  | 70   |
| Uralstech.UGemini.Models.Generation.QuestionAns   |  |
| 35  | Uralstech.UGemini.Models.Embedding, 32 GeminiFileData  |
| FactVerification                                  | Uralstech.UGemini.Models.Content.GeminiFileData,   |
| Uralstech.UGemini.Models.Embedding, 32            | 74   |
| Failed  | GeminiFileDeleteRequest  |
| Uralstech.UGemini.FileAPI, 29                     | Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest,   |
| Uralstech.UGemini.Models.Generation.Tools.CodeE   | xecution, 76   |
| 40  | GeminiFileGetRequest   |
| FileData  | Uralstech.UGemini.FileAPI.GeminiFileGetRequest,  |
| Uralstech.UGemini.Models.Content.GeminiContentP   |  |
| 67  | GeminiFileListRequest  |
| Float Uralstech.UGemini.Models.Generation.Schema, | Uralstech.UGemini.FileAPI.GeminiFileListRequest,   |
|   | 79   |
| FunctionCall                                      | GeminiFileState  |
| Uralstech.UGemini.Models.Content.GeminiContentP   | Uralstech.UGemini.FileAPI, 29  |
| 67  | Uralstech.UGemini.FileAPI.GeminiFileUploadRequest,   |
| FunctionDeclarations                              | 82   |
| Uralstech.UGemini.Models.Generation.Tools.Declara |  |
| 118   | Uralstech.UGemini.Models.Generation.Candidate,   |
| FunctionResponse                                  | 33   |
|   | GeminiFunctionCallingMode  |

```
Uralstech.UGemini.Models.Generation.Tools.Declaration,
                                                               102
                                                          Uralstech.UGemini.Models.GeminiModelListRequest,
GeminiHarmProbability
    Uralstech.UGemini.Models.Generation.Safety, 37
                                                           Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAr
GeminiMetadataConditionOperator
    Uralstech.UGemini.Models.Generation.QuestionAnsweitligeSemanticRetriever,
                                                           Uralstech. UGemini. Models. Generation. Tools. GeminiFunction Call,
GeminiModelGetRequest
                                                               84
    Uralstech.UGemini.Models.GeminiModelGetRequest,GetUtf8EncodedData
                                                           Uralstech.UGemini.FileAPI.GeminiFileUploadRequest,
GeminiModelId
    Uralstech.UGemini.Models.GeminiModelld, 104
                                                          Uralstech.UGemini.IGeminiMultiPartPostRequest,
GeminiModelListRequest
    Uralstech.UGemini.Models.GeminiModelListRequest,
                                                           Uralstech. UGemini. IGeminiPostReguest, 124
                                                           Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest
         106
GeminiResponseType
    Uralstech.UGemini.Models.Generation, 33
                                                          Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentF
GeminiRole
    Uralstech. UGemini. Models. Content, 30
                                                          Uralstech.UGemini.Models.Embedding.GeminiEmbedContentReque
GeminiSafetyHarmBlockThreshold
    Uralstech. UGemini. Models. Generation. Safety, 37
                                                           Uralstech.UGemini.Models.Generation.QuestionAnswering.GeminiAr
GeminiSafetyHarmCategory
    Uralstech.UGemini.Models.Generation.Safety, 37
                                                      GreaterThan
GeminiSchemaDataFormat
                                                          Uralstech.UGemini.Models.Generation.QuestionAnswering.Semantic
    Uralstech.UGemini.Models.Generation.Schema,
                                                      GreaterThanOrEqual
GeminiSchemaDataType
                                                          Uralstech.UGemini.Models.Generation.QuestionAnswering.Semantic
    Uralstech.UGemini.Models.Generation.Schema,
                                                               36
                                                      GroundingAttributions
GeminiTokenCountRequest
                                                           Uralstech.UGemini.Models.Generation.Candidate.GeminiCandidate,
    Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRequest,
         116
                                                      Harassment
GetConfiguration
    Uralstech.UGemini.Models.Generation.Tools.Declaration.GeralatrobidGaminaModels.Generation.Safety, 38
                                                      HateSpeech
                                                           Uralstech.UGemini.Models.Generation.Safety, 38
GetContent
    Uralstech.UGemini.Models.Content.GeminiContent. High
                                                          Uralstech.UGemini.Models.Generation.Safety, 37
         61-63
GetContentBlob
    Uralstech.UGemini.Models.Content.GeminiContentBldmageHEIC
                                                           Uralstech.UGemini, 28
         64
                                                      ImageHEIF
GetEndpointUri
                                                           Uralstech. UGemini, 28
    Uralstech.UGemini.FileAPI.GeminiFileDeleteRequest
                                                      lmageJPEG
                                                           Uralstech.UGemini, 28
    Uralstech.UGemini.FileAPI.GeminiFileGetRequest,
                                                      ImagePNG
                                                           Uralstech.UGemini, 28
    Uralstech.UGemini.FileAPI.GeminiFileListRequest,
                                                      ImageWebP
                                                          Uralstech.UGemini, 28
    Uralstech.UGemini.FileAPI.GeminiFileUploadRequest
                                                      includes
                                                           Uralstech. UGemini. Models. Generation. Question Answering. Semantic
    Uralstech. UGemini. IGemini Request, 125
    Uralstech.UGemini.Models.CountTokens.GeminiTokenCountRediest
InlinePassages
    Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContenthequest, Models.Generation.QuestionAnswering.GeminiAr
    Uralstech. UGemini. Models. Embedding. Gemini Embed Content Reguest
                                                           Uralstech. UGemini. Models. Generation. Question Answering. Gemini Ar
    Uralstech.UGemini.Models.GeminiModelGetRequest,
```

| Uralstech.UGemini.Models.Generation.Schema, 39   | Uralstech.UGemini.Models.Generation.Tools.Declaration, 41  |
|--|--|
| Integer  | NotEqual   |
| Uralstech.UGemini.Models.Generation.Schema,  | Uralstech.UGemini.Models.Generation.QuestionAnswering.Semantic   |
| IsAppendable   | NumericValue   |
| Uralstech.UGemini.Models.Content.GeminiContentP<br>67                                      | art, Uralstech.UGemini.Models.Generation.QuestionAnswering.Semantic 95   |
| Json   | Object   |
| Uralstech.UGemini.Models.Generation, 33  | Uralstech.UGemini.Models.Generation.Schema,  |
| LessThan   | Ok   |
| 36   | wering କ୍ରିକ୍ଲାକ୍ଟୋଲ୍ଫୋକ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ୍ଫୋଲ   |
| LessThanOrEqual  | OnlyHigh   |
| Uralstech.UGemini.Models.Generation.QuestionAns<br>36                                      | wering କ୍ରିଲାଇଟ୍ୟାସ୍ଟିକ୍ଟୋକ୍ନ୍ୟକ୍ଟ.Models.Generation.Safety, 37<br>Other   |
| Long   | Uralstech.UGemini.Models.Generation.Candidate,   |
| Uralstech.UGemini.Models.Generation.Schema,  | 34   |
| 39   | Uralstech.UGemini.Models.Generation.Safety, 37   |
| Low  | OutputDimensionality   |
| Uralstech.UGemini.Models.Generation.Safety, 37 LowAndAbove                                 | Uralstech.UGemini.Models.Embedding.GeminiEmbedContentReque 71  |
| Uralstech.UGemini.Models.Generation.Safety, 37   | DI : T   |
| MalformedFunctionCall  | PlainText  |
| Uralstech.UGemini.Models.Generation.Candidate,   | Uralstech.UGemini.Models.Generation, 33  |
| 34   | Processing Uralstech.UGemini.FileAPI, 29   |
| MaxResponseModels  | ProcessStreamedData  |
| Uralstech.UGemini.Models.GeminiModelListReques   |  |
| 107  | TResponse >, 127   |
| MaxTokens  | ProhibitedContent  |
| Uralstech.UGemini.Models.Generation.Candidate, 34  | Uralstech.UGemini.Models.Generation.Candidate,   |
| Medical  | Uralstech.UGemini.Models.Generation.Safety, 37   |
| Uralstech.UGemini.Models.Generation.Safety, 38   | PromptTokenCount   |
| Medium   | Uralstech.UGemini.Models.Generation.Candidate.GeminiUsageMeta  |
| Uralstech.UGemini.Models.Generation.Safety, 37   | 120  |
| MediumAndAbove   | Python   |
| Uralstech.UGemini.Models.Generation.Safety, 37   | Ur als tech. UGemini. Models. Generation. Tools. Code Execution,   |
| Message  | 40   |
| Uralstech.UGemini.Status.GeminiStatus, 113   | Out a skip in A manuary in m   |
| MimeType   | QuestionAnswering  |
| Uralstech.UGemini.FileAPI.GeminiFile, 74 Uralstech.UGemini.GeminiContentTypeExtensions, 68 | Uralstech.UGemini.Models.Embedding, 32 QuickStart and Documentation, 5   |
| Uralstech.UGemini.Models.Content.GeminiContentB  | uRecitation  |
| 65   | Uralstech.UGemini.Models.Generation.Candidate,   |
| Name   | Request  |
| Uralstech.UGemini.FileAPI.GeminiFileUploadMetaD  | •  |
| 80   | Request< TResponse >   |
| Uralstech.UGemini.Models.GeminiModelld, 104  | Uralstech.UGemini.GeminiManager, 92, 93  |
| Negligible   | ResponseMimeType   |
| Uralstech.UGemini.Models.Generation.Safety, 37   | Ur als tech. UGemini. Models. Generation. Gemini Generation Configuration Gemini Generation Configuration Gemini Generation |
| None   | 88   |
| Uralstech.UGemini.Models.Generation.Safety, 37   | ResponseSchema   |

```
Uralstech.UGemini.Models.Generation.GeminiGenerationமோள்ளுக்கும் படுகையார்.Models.Generation.QuestionAnswering.GeminiAr
RetrievalDocument
                                                                                              TextCSS
        Uralstech.UGemini.Models.Embedding, 32
                                                                                                      Uralstech. UGemini, 28
RetrievalQuery
                                                                                              TextCSV
        Uralstech.UGemini.Models.Embedding, 32
                                                                                                      Uralstech. UGemini, 28
                                                                                              TextEmbedding004
Safety
                                                                                                      Uralstech.UGemini.Models.GeminiModel, 100
        Uralstech.UGemini.Models.Generation.Candidate.
                                                                                              TextHTML
                                                                                                      Uralstech. UGemini, 28
        Uralstech.UGemini.Models.Generation.Safety, 37
                                                                                              TextJavaScript
SafetySettings
                                                                                                      Uralstech.UGemini, 28
        Uralstech.UGemini.Models.Generation.Chat.GeminiChat.Regination
                                                                                                      Uralstech. UGemini, 28
        Uralstech.UGemini.Models.Generation.QuestionAnsweeting
                45
                                                                                                      Uralstech.UGemini, 28
SemanticRetriever
                                                                                              TextRTF
        Uralstech.UGemini.Models.Generation.QuestionAnswering.GaggieiAnswerRequest,
                46
                                                                                              TextXML
SemanticSimilarity
                                                                                                      Uralstech.UGemini, 28
        Uralstech. UGemini. Models. Embedding, 32
                                                                                              TextXPython
SendStreamingWebRequest
                                                                                                      Uralstech. UGemini, 28
        Uralstech. UGemini. Utils. Web. Web Request Helper,
                                                                                              TextXTypeScript
                                                                                                      Uralstech.UGemini, 28
SetApiKey
                                                                                              Title
        Uralstech.UGemini.GeminiManager, 94
                                                                                                      Uralstech.UGemini.Models.Embedding.GeminiEmbedContentReque
Sexual
                                                                                                              71
        Uralstech.UGemini.Models.Generation.Safety, 38
                                                                                              ToBase64JPEG
SexuallyExplicit
                                                                                                      Uralstech. UGemini. Models. Content. Unity Extensions,
        Uralstech.UGemini.Models.Generation.Safety, 38
                                                                                                              128
SPII
                                                                                              ToBase64PNG
        Uralstech.UGemini.Models.Generation.Candidate.
                                                                                                      Uralstech.UGemini.Models.Content.UnityExtensions,
StartIndex
                                                                                              ToBase64WAV
        Uralstech.UGemini.Models.Content.Citation.GeminiCitationsauseeh.UGemini.Models.Content.UnityExtensions,
                                                                                                              129
Stop
                                                                                              ToolConfig
        Uralstech.UGemini.Models.Generation.Candidate,
                                                                                                      Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest,
StreamRequest < TResponse >
                                                                                              ToolResponse
        Uralstech. UGemini. Gemini Manager, 94
                                                                                                      Uralstech. UGemini. Models. Content, 31
String
                                                                                              Tools
        Uralstech. UGemini. Models. Generation. Schema,
                                                                                                      Uralstech.UGemini.Models.Generation.Chat.GeminiChatRequest,
StringValue
                                                                                              TopK
        Uralstech.UGemini.Models.Generation.QuestionAnswering.GenerationEcinym.Models.Generation.QuestionAnswering.Generation.Generation.QuestionAnswering.Generation.Generation.Generation.QuestionAnswering.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.Generation.
                95
                                                                                                      Uralstech.UGemini.Models.Generation.GeminiGenerationConfigurati
SupportedGenerationMethods
        Uralstech.UGemini.Models.GeminiModel, 100
                                                                                              TopP
SystemInstruction
                                                                                                      Uralstech.UGemini.Models.GeminiModel, 101
        Uralstech.UGemini.Models.Generation.Chat.GeminiChatReศนเลื่อch.UGemini.Models.Generation.GeminiGenerationConfigurati
                                                                                              TotalTokens
TaskType
                                                                                                      Uralstech. UGemini. Models. Count Tokens. Gemini Token Count Respons
        Uralstech.UGemini.Models.Embedding.GeminiEmbedContentRequest,
Temperature
                                                                                                      Uralstech.UGemini.Models.Content.UnityExtensions,
        Uralstech.UGemini.Models.GeminiModel, 100
                                                                                                              129
```

| Toxicity  | VideoXFLV, 28   |
|---|---|
| Uralstech.UGemini.Models.Generation.Safety, 38    | Uralstech.UGemini.Exceptions, 28  |
|   | Uralstech.UGemini.Exceptions.GeminiRequestException,  |
| Unspecified                                       | 108   |
| Uralstech.UGemini.FileAPI, 29                     | Uralstech.UGemini.FileAPI, 29   |
| Uralstech.UGemini.Models.Content, 31              | Active, 29  |
| Uralstech.UGemini.Models.Embedding, 32            | Failed, 29  |
| Uralstech.UGemini.Models.Generation, 33           | GeminiFileState, 29   |
| Uralstech.UGemini.Models.Generation.Candidate,    | Processing, 29  |
| 34  | Unspecified 29  |
| Uralstech.UGemini.Models.Generation.QuestionAns   | Weringtech.UGemini.FileAPI.GeminiFile, 73   |
| 35  | MimeType, 74  |
| Uralstech.UGemini.Models.Generation.QuestionAns   | weringteen action in the work of the work |
| 36  | 75  |
| Uralstech.UGemini.Models.Generation.Safety, 37,   | GeminiFileDeleteRequest, 76   |
| 38  | GetEndpointUri, 76  |
| Uralstech.UGemini.Models.Generation.Schema,       | Uralstech.UGemini.FileAPI.GeminiFileGetRequest, 76  |
| 38, 39  | GeminiFileGetRequest 77   |
| Uralstech.UGemini.Models.Generation.Tools.CodeE   | xecuti@etEndpointUri. 77  |
| 40  | Uralstach UCamini Fila API Gamini Fila List Request 78  |
| Uralstech.UGemini.Models.Generation.Tools.Declara | ation, GeminiFilel istRequest, 79   |
| 41  | GetEndpointUri, 79  |
| Uralstech, 27                                     | Uralstech.UGemini.FileAPI.GeminiFileListResponse, 79  |
| Uralstech.UGemini, 27                             | Uralstech.UGemini.FileAPI.GeminiFileUploadMetaData,   |
| ApplicationJSON, 28                               | 80  |
| ApplicationRTF, 28                                | Name, 80  |
| ApplicationXJavaScript, 28                        | Uralstech.UGemini.FileAPI.GeminiFileUploadRequest,  |
| ApplicationXPython, 28                            | 81  |
| ApplicationXTypeScript, 28                        |   |
| AudioAAC, 28                                      | GeminiFileUploadRequest, 82   |
| AudioAIFF, 28                                     | GetEndpointUri, 82  |
| AudioFLAC, 28                                     | GetUtf8EncodedData, 83  |
| AudioMP3, 28                                      | Uralstech.UGemini.FileAPI.GeminiFileUploadResponse,   |
| AudioOGG, 28                                      | 83  |
| AudioWAV, 28                                      | Uralstech.UGemini.FileAPI.GeminiFileVideoMetaData,  |
| GeminiContentType, 28                             | 84  |
| ImageHEIC, 28                                     | Uralstech.UGemini.FileAPI.GeminiTimeSpanJsonConverter,  |
| ImageHEIF, 28                                     | 114   |
| ImageJPEG, 28                                     | Uralstech.UGemini.GeminiContentTypeExtensions, 68   |
| ImagePNG, 28                                      | ContentType, 68   |
| ImageWebP, 28                                     | MimeType, 68  |
| TextCSS, 28                                       | Uralstech.UGemini.GeminiManager, 91   |
|   | Request, 92   |
| TextCSV, 28                                       | Request< TResponse >, 92, 93  |
| Text Inve Seriet 28                               | SetApiKey, 94   |
| TextJavaScript, 28                                | StreamRequest< TResponse >, 94  |
| TextMarkdown, 28                                  | Uralstech.UGemini.GeminiRequestMetadata, 109  |
| TextPlain, 28                                     | Uralstech.UGemini.IAppendableData< T >, 120   |
| TextRTF, 28                                       | Append, 121   |
| TextXML, 28                                       | Uralstech.UGemini.IGeminiDeleteRequest, 121   |
| TextXPython, 28                                   | Uralstech.UGemini.IGeminiGetRequest, 122  |
| TextXTypeScript, 28                               | Uralstech.UGemini.IGeminiMultiPartPostRequest, 122  |
| Video3GPP, 28                                     | GetUtf8EncodedData, 123   |
| VideoAVI, 28                                      | Uralstech.UGemini.IGeminiPostRequest, 123   |
| VideoMOV, 28                                      | ContentType, 124  |
| VideoMP4, 28                                      | GetUtf8EncodedData, 124   |
| VideoMPEG, 28                                     | Uralstech.UGemini.IGeminiRequest, 125   |
| VideoMPG, 28                                      | GetEndpointUri, 125   |
| VideoWebM, 28                                     | •   |
| VideoWMV, 28                                      |   |

| Uralstech.UGemini.IGeminiStreamablePostRequest<          | FactVerification, 32  |
|--|---|
| TResponse >, 126   | GeminiEmbedTaskType, 32   |
| ProcessStreamedData, 127                                 | QuestionAnswering, 32   |
| Uralstech.UGemini.Models, 30                             | RetrievalDocument, 32   |
| Uralstech.UGemini.Models.Content, 30                     | RetrievalQuery, 32  |
| Assistant, 31  | SemanticSimilarity, 32  |
| GeminiRole, 30   | Unspecified, 32   |
| ToolResponse, 31   | Uralstech.UGemini.Models.Embedding.GeminiBatchEmbedContentReque       |
| Unspecified, 31  | 49  |
| User, 31   | ContentType, 51   |
| Uralstech.UGemini.Models.Content.Attribution, 31         | GeminiBatchEmbedContentRequest, 50                                    |
| Uralstech.UGemini.Models.Content.Attribution.GeminiAttri | ribution <b>SettEnock</b> both int Uri, 50                            |
| 48   | GetUtf8EncodedData, 50  |
| Uralstech.UGemini.Models.Content.Attribution.GeminiGro   | oubditspectribl@iemini.Models.Embedding.GeminiBatchEmbedContentRespo  |
| 89   | 51  |
|  | ou <b>bdingeass4gerd</b> ini.Models.Embedding.GeminiContentEmbedding, |
| 90   | 65  |
| Uralstech.UGemini.Models.Content.Attribution.GeminiSel   | malnailsReathieb@himinlModels.Embedding.GeminiEmbedContentRequest, 69 |
| Uralstech.UGemini.Models.Content.Citation, 31            | ContentType, 72   |
| Uralstech.UGemini.Models.Content.Citation.GeminiCitation |   |
| 57   | GetEndpointUri, 70  |
| Uralstech.UGemini.Models.Content.Citation.GeminiCitation | ·   |
| 58   | OutputDimensionality, 71  |
| StartIndex, 58   | TaskType, 71  |
| Uralstech.UGemini.Models.Content.GeminiContent, 60       | Title, 71   |
| GetContent, 61–63  | Uralstech.UGemini.Models.Embedding.GeminiEmbedContentResponse,        |
| Uralstech.UGemini.Models.Content.GeminiContentBlob,      | 72  |
| 64   | Uralstech.UGemini.Models.GeminiModel, 97                              |
| GetContentBlob, 64                                       | Aqa, 99   |
| MimeType, 65   | DisplayName, 99   |
| Uralstech.UGemini.Models.Content.GeminiContentPart,      | Gemini1_0Pro, 99  |
| 66   | Gemini1_0ProVision, 99  |
| FileData, 67   | Gemini1_5Flash, 99  |
| FunctionCall, 67   | Gemini1_5Pro, 100   |
| FunctionResponse, 67                                     | SupportedGenerationMethods, 100                                       |
| IsAppendable, 67   | Temperature, 100  |
| Uralstech.UGemini.Models.Content.GeminiFileData, 74      | TextEmbedding004, 100   |
| GeminiFileData, 74                                       | TopK, 100   |
| Uralstech.UGemini.Models.Content.UnityExtensions,        | TopP, 101   |
| 128  | Version, 101  |
| ToBase64JPEG, 128  | Uralstech.UGemini.Models.GeminiModelGetRequest,                       |
| ToBase64PNG, 128   | 101   |
| ToBase64WAV, 129   | GeminiModelGetRequest, 102  |
|  | ·   |
| ToWAV, 129   | GetEndpointUri, 102   |
| Uralstech.UGemini.Models.CountTokens, 31                 | Uralstech.UGemini.Models.GeminiModelld, 103                           |
| Uralstech.UGemini.Models.CountTokens.GeminiTokenCo       | ·   |
| 115  | Name, 104   |
| ContentType, 117   | Uralstech.UGemini.Models.GeminiModelldStringConverter,                |
| GeminiTokenCountRequest, 116                             | 105 Uraletech I Comini Medala CominiMedall istDoguest                 |
| GetEndpointUri, 116                                      | Uralstech.UGemini.Models.GeminiModelListRequest,                      |
| GetUtf8EncodedData, 116                                  | 105   |
| Uralstech.UGemini.Models.CountTokens.GeminiTokenCo       | ·   |
| 117  | GetEndpointUri, 106   |
| TotalTokens, 117   | MaxResponseModels, 107  |
| Uralstech.UGemini.Models.Embedding, 32                   | Uralstech.UGemini.Models.GeminiModelListResponse,                     |
| Classification, 32                                       | 107   |
| Clustering, 32   | Uralstech.UGemini.Models.Generation, 32                               |

| GeminiResponseType, 33                                    | InlinePassages, 45   |
|---|--|
| Json, 33  | SafetySettings, 45   |
| PlainText, 33   | SemanticRetriever, 46  |
| Unspecified, 33   | Temperature, 46  |
| Uralstech.UGemini.Models.Generation.Candidate, 33         | Ur als tech. UGe mini. Models. Generation. Question Answering. Gemini Answering. G |
| BlockList, 34   | 47   |
| GeminiFinishReason, 33                                    | Answer, 47   |
| MalformedFunctionCall, 34                                 | AnswerableProbability, 47  |
| MaxTokens, 34   | InputFeedback, 47  |
| Other, 34   | Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding,   |
| ProhibitedContent, 34                                     | 35   |
| Recitation, 34  | Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.Ge   |
| Safety, 34  | 90   |
| SPII, 34  | Uralstech.UGemini.Models.Generation.QuestionAnswering.Grounding.Ge   |
| Stop, 34  | 91   |
| Unspecified, 34   | Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetri  |
| Uralstech.UGemini.Models.Generation.Candidate.Gemini      | <del>-</del>   |
| 51  | Equal, 36  |
| CitationMetadata, 52                                      | Excludes, 36   |
| GroundingAttributions, 52                                 | GeminiMetadataConditionOperator, 35  |
| Uralstech.UGemini.Models.Generation.Candidate.Gemini      |  |
| 108   | GreaterThanOrEqual, 36   |
| Uralstech.UGemini.Models.Generation.Candidate.Gemini      |  |
| 119   | LessThan, 36   |
| PromptTokenCount, 120                                     | ,  |
| •   | LessThanOrEqual, 36  |
| Uralstech.UGemini.Models.Generation.Chat, 34              | NotEqual, 36   |
| Uralstech.UGemini.Models.Generation.Chat.GeminiChatF      |  |
| 53  | Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetri  |
| CachedContent, 55   | 95   |
| Contents, 55  | NumericValue, 95   |
| GeminiChatRequest, 54                                     | StringValue, 95  |
| SafetySettings, 55  | Uralstech.UGemini.Models.Generation.QuestionAnswering.SemanticRetri  |
| SystemInstruction, 55                                     | 96   |
| ToolConfig, 55  | Ur als tech. UGemini. Models. Generation. Question Answering. Semantic Retrieval and the property of the pro |
| Tools, 56   | 112  |
| Uralstech.UGemini.Models.Generation.Chat.GeminiChatF      | Responses. UGemini. Models. Generation. Safety, 36   |
| 56  | BlockList, 37  |
| Uralstech.UGemini.Models.Generation.GeminiGeneration      | ConfigDaantigemous, 38   |
| 88  | DangerousContent, 38   |
| CandidateCount, 88  | Derogatory, 38   |
| ResponseMimeType, 88                                      | GeminiBlockReason, 36  |
| ResponseSchema, 88  | GeminiHarmProbability, 37  |
| TopK, 89  | GeminiSafetyHarmBlockThreshold, 37   |
| TopP, 89  | GeminiSafetyHarmCategory, 37   |
| Uralstech. UGemini. Models. Generation. Question Answerin |  |
| 34  | HateSpeech, 38   |
| Abstractive, 35   | High, 37   |
| Extractive, 35  | Low, 37  |
| GeminiAnswerStyle, 34                                     | LowAndAbove, 37  |
| Unspecified, 35   | Medical, 38  |
| Verbose, 35   | Medium, 37   |
| Uralstech.UGemini.Models.Generation.QuestionAnswerin      |  |
|   | -  |
| 43<br>Contents 45   | Negligible, 37   |
| Contents, 45  | None, 37   |
| ContentType, 46   | OnlyHigh, 37   |
| GeminiAnswerRequest, 44                                   | Other, 37  |
| GetEndpointUri, 44  | ProhibitedContent, 37  |
| GetUtf8EncodedData, 45                                    | Safety, 37   |

```
Sexual, 38
                                                        Uralstech. UGemini. Models. Generation. Tools. Declaration. Gemini Tool,
    Sexually Explicit, 38
    Toxicity, 38
                                                             FunctionDeclarations, 118
    Unspecified, 37, 38
                                                        Uralstech.UGemini.Models.Generation.Tools.Declaration.GeminiToolConfi
     Violence, 38
Uralstech.UGemini.Models.Generation.Safety.GeminiSafetyRatiOgtConfiguration, 119
                                                        Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionCall.
Uralstech. UGemini. Models. Generation. Safety. Gemini Safety Settings, 84
                                                             Arguments, 85
Uralstech. UGemini. Models. Generation. Schema, 38
                                                             GetResponse, 84
                                                        Uralstech. UGemini. Models. Generation. Tools. GeminiFunction Response,
    Array, 39
    Base64Bytes, 39
    Binary, 39
                                                        Uralstech.UGemini.Models.Generation.Tools.GeminiFunctionResponseCo
    Boolean, 39
    Date, 39
                                                        Uralstech. UGemini. Status. 41
                                                        Uralstech.UGemini.Status.GeminiStatus, 113
    DateTime, 39
    Double, 39
                                                             Message, 113
     Enum. 39
                                                        Uralstech. UGemini. Status. Gemini Status Details, 114
                                                        Uralstech.UGemini.Utils. 41
    Float, 38, 39
    GeminiSchemaDataFormat, 38
                                                        Uralstech. UGemini. Utils. Singleton, 41
    GeminiSchemaDataType, 39
                                                        Uralstech.UGemini.Utils.Singleton.Singleton< T >, 127
                                                        Uralstech.UGemini.Utils.Web, 41
    Int. 39
    Integer, 39
                                                        Uralstech.UGemini.Utils.Web.WebRequestHelper, 129
    Long, 39
                                                             SendStreamingWebRequest, 130
    Object, 39
                                                        User
    String, 39
                                                             Uralstech.UGemini.Models.Content, 31
     Unspecified, 38, 39
Uralstech.UGemini.Models.Generation.Schema.GeminiSchertese
                                                             Uralstech. UGemini. Models. Generation. Question Answering,
         111
     Enum. 111
                                                        Version
Uralstech. UGemini. Models. Generation. Tools, 39
                                                             Uralstech.UGemini.Models.GeminiModel, 101
Uralstech.UGemini.Models.Generation.Tools.CodeExecution,
                                                        Video3GPP
                                                             Uralstech.UGemini, 28
     DeadlineExceeded, 40
                                                        VideoAVI
    Failed, 40
                                                             Uralstech. UGemini, 28
    GeminiCodeExecutionLanguage, 40
                                                        VideoMOV
    GeminiCodeExecutionOutcome, 40
                                                             Uralstech.UGemini, 28
    Ok, 40
                                                        VideoMP4
    Python, 40
                                                             Uralstech. UGemini, 28
     Unspecified, 40
Uralstech.UGemini.Models.Generation.Tools.CodeExecutio/figeMRE@deExecutionResult,
                                                             Uralstech. UGemini, 28
Uralstech.UGemini.Models.Generation.Tools.CodeExecutio/figeMiRfExecutableCode,
                                                             Uralstech.UGemini, 28
Uralstech.UGemini.Models.Generation.Tools.Declaration, VideoWebM
                                                             Uralstech.UGemini, 28
                                                        VideoWMV
    Any, 41
                                                             Uralstech. UGemini, 28
    Auto, 41
                                                        VideoXFLV
    GeminiFunctionCallingMode, 41
                                                             Uralstech. UGemini, 28
    None, 41
                                                        Violence
     Unspecified, 41
Uralstech.UGemini.Models.Generation.Tools.Declaration.Geminicalstech.UGemini.Models.Generation.Safety, 38
Uralstech. UGemini. Models. Generation. Tools. Declaration. GeminiFunction Calling Configuration,
    AllowedFunctionNames, 86
Uralstech. UGemini. Models. Generation. Tools. Declaration. GeminiFunction Declaration,
         86
```