# FolkerKinzel.Helpers Namespace

Helper classes

## Classes

|  |  |
| --- | --- |
| [BinaryFile](#_21766464_Topic) | Helper class for operations with binary files. |
| [TextFile](#_E4AEBC62_Topic) | Helper class for operations with text files. |

# BinaryFile Class

Helper class for operations with binary files.

## Definition

**Namespace:** [FolkerKinzel.Helpers](#_84D8340B_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static class BinaryFile |

|  |  |
| --- | --- |
| **Inheritance** | [Object](https://learn.microsoft.com/dotnet/api/system.object) → BinaryFile |

## Methods

|  |  |
| --- | --- |
| [Load](#_A2E451DE_Topic) | Loads a binary file. |
| [Open](#_5808BE51_Topic) | Opens a file. |
| [Save](#_70905457_Topic) | Saves a byte array to a file. |

## See Also

#### Reference

[FolkerKinzel.Helpers Namespace](#_84D8340B_Topic)

# BinaryFile.Load Method

Loads a binary file.

## Definition

**Namespace:** [FolkerKinzel.Helpers](#_84D8340B_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static byte[] Load(  string filePath ) |

#### Parameters

filePath [String](https://learn.microsoft.com/dotnet/api/system.string)

The file path.

#### Return Value

[Byte](https://learn.microsoft.com/dotnet/api/system.byte)[]

The content of the binary file as byte array.

## Exceptions

|  |  |
| --- | --- |
| [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception) | filePath  is null. |
| [ArgumentException](https://learn.microsoft.com/dotnet/api/system.argumentexception) | filePath  is not a valid file path. |
| [IOException](https://learn.microsoft.com/dotnet/api/system.io.ioexception) | I/O error. |

## See Also

#### Reference

[BinaryFile Class](#_21766464_Topic)

[FolkerKinzel.Helpers Namespace](#_84D8340B_Topic)

# BinaryFile.Open Method

Opens a file.

## Definition

**Namespace:** [FolkerKinzel.Helpers](#_84D8340B_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static FileStream Open(  string filePath,  FileMode mode,  FileAccess access,  FileShare share ) |

#### Parameters

filePath [String](https://learn.microsoft.com/dotnet/api/system.string)

The file path.

mode [FileMode](https://learn.microsoft.com/dotnet/api/system.io.filemode)

The file mode.

access [FileAccess](https://learn.microsoft.com/dotnet/api/system.io.fileaccess)

The file access.

share [FileShare](https://learn.microsoft.com/dotnet/api/system.io.fileshare)

The file share mode.

#### Return Value

[FileStream](https://learn.microsoft.com/dotnet/api/system.io.filestream)

A newly created [FileStream](https://learn.microsoft.com/dotnet/api/system.io.filestream).

## Exceptions

|  |  |
| --- | --- |
| [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception) | filePath  is null. |
| [ArgumentException](https://learn.microsoft.com/dotnet/api/system.argumentexception) | filePath  is not a valid file path. |
| [IOException](https://learn.microsoft.com/dotnet/api/system.io.ioexception) | I/O error. |
| [ArgumentOutOfRangeException](https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception) | mode  contains an invalid value. |

## See Also

#### Reference

[BinaryFile Class](#_21766464_Topic)

[FolkerKinzel.Helpers Namespace](#_84D8340B_Topic)

# BinaryFile.Save Method

Saves a byte array to a file.

## Definition

**Namespace:** [FolkerKinzel.Helpers](#_84D8340B_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static void Save(  string filePath,  byte[] bytes ) |

#### Parameters

filePath [String](https://learn.microsoft.com/dotnet/api/system.string)

The file path.

bytes [Byte](https://learn.microsoft.com/dotnet/api/system.byte)[]

The byte array to save.

## Exceptions

|  |  |
| --- | --- |
| [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception) | filePath  or bytes is null. |
| [ArgumentException](https://learn.microsoft.com/dotnet/api/system.argumentexception) | filePath  is not a valid file path. |
| [IOException](https://learn.microsoft.com/dotnet/api/system.io.ioexception) | I/O error. |

## See Also

#### Reference

[BinaryFile Class](#_21766464_Topic)

[FolkerKinzel.Helpers Namespace](#_84D8340B_Topic)

# TextFile Class

Helper class for operations with text files.

## Definition

**Namespace:** [FolkerKinzel.Helpers](#_84D8340B_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static class TextFile |

|  |  |
| --- | --- |
| **Inheritance** | [Object](https://learn.microsoft.com/dotnet/api/system.object) → TextFile |

## Methods

|  |  |
| --- | --- |
| [OpenRead](#_8DCBBA7C_Topic) | Opens a text file for reading. |
| [OpenWrite](#_21CFD34A_Topic) | Initializes a new [StreamWriter](https://learn.microsoft.com/dotnet/api/system.io.streamwriter) instance. |

## See Also

#### Reference

[FolkerKinzel.Helpers Namespace](#_84D8340B_Topic)

# TextFile.OpenRead Method

Opens a text file for reading.

## Definition

**Namespace:** [FolkerKinzel.Helpers](#_84D8340B_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static StreamReader OpenRead(  string filePath,  Encoding? textEncoding ) |

#### Parameters

filePath [String](https://learn.microsoft.com/dotnet/api/system.string)

The file path.

textEncoding [Encoding](https://learn.microsoft.com/dotnet/api/system.text.encoding)

The text encoding to be used to read the file, or null for [UTF8](https://learn.microsoft.com/dotnet/api/system.text.encoding.utf8).

#### Return Value

[StreamReader](https://learn.microsoft.com/dotnet/api/system.io.streamreader)

A [StreamReader](https://learn.microsoft.com/dotnet/api/system.io.streamreader) instance for reading the file.

## Exceptions

|  |  |
| --- | --- |
| [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception) | filePath  is null. |
| [ArgumentException](https://learn.microsoft.com/dotnet/api/system.argumentexception) | filePath  is not a valid file path. |
| [IOException](https://learn.microsoft.com/dotnet/api/system.io.ioexception) | I/O error. |

## See Also

#### Reference

[TextFile Class](#_E4AEBC62_Topic)

[FolkerKinzel.Helpers Namespace](#_84D8340B_Topic)

# TextFile.OpenWrite Method

Initializes a new [StreamWriter](https://learn.microsoft.com/dotnet/api/system.io.streamwriter) instance.

## Definition

**Namespace:** [FolkerKinzel.Helpers](#_84D8340B_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static StreamWriter OpenWrite(  string filePath,  Encoding? textEncoding,  string? newLine,  bool append ) |

#### Parameters

filePath [String](https://learn.microsoft.com/dotnet/api/system.string)

The file path.

textEncoding [Encoding](https://learn.microsoft.com/dotnet/api/system.text.encoding)

The text encoding to be used to write the CSV file or null for [UTF8](https://learn.microsoft.com/dotnet/api/system.text.encoding.utf8).

newLine [String](https://learn.microsoft.com/dotnet/api/system.string)

The line terminator string to be used, or null for [NewLine](https://learn.microsoft.com/dotnet/api/system.environment.newline).

append [Boolean](https://learn.microsoft.com/dotnet/api/system.boolean)

If true, the file is opened for appending; otherwise, the file will be truncated and overwritten. If the specified file does not exist, this parameter has no effect, and a new file will be created.

#### Return Value

[StreamWriter](https://learn.microsoft.com/dotnet/api/system.io.streamwriter)

The newly created [StreamWriter](https://learn.microsoft.com/dotnet/api/system.io.streamwriter) instance.

## Exceptions

|  |  |
| --- | --- |
| [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception) | filePath  is null. |
| [ArgumentException](https://learn.microsoft.com/dotnet/api/system.argumentexception) | filePath  is not a valid file path. |
| [IOException](https://learn.microsoft.com/dotnet/api/system.io.ioexception) | I/O-Error |

## See Also

#### Reference

[TextFile Class](#_E4AEBC62_Topic)

[FolkerKinzel.Helpers Namespace](#_84D8340B_Topic)

# FolkerKinzel.Helpers.Polyfills Namespace

Polyfills

## Classes

|  |  |
| --- | --- |
| [\_ArgumentNullException](#_7EE87DDF_Topic) | Polyfill for [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception). |
| [\_ArgumentOutOfRangeException](#_AC7CC979_Topic) | Polyfill for [ArgumentOutOfRangeException](https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception). |

# \_ArgumentNullException Class

Polyfill for [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception).

## Definition

**Namespace:** [FolkerKinzel.Helpers.Polyfills](#_31FCE499_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static class \_ArgumentNullException |

|  |  |
| --- | --- |
| **Inheritance** | [Object](https://learn.microsoft.com/dotnet/api/system.object) → \_ArgumentNullException |

## Methods

|  |  |
| --- | --- |
| [ThrowIfNull](#_D0B54434_Topic) | Throws an [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception) if argument is null. |

## See Also

#### Reference

[FolkerKinzel.Helpers.Polyfills Namespace](#_31FCE499_Topic)

# \_ArgumentNullException.ThrowIfNull Method

Throws an [ArgumentNullException](https://learn.microsoft.com/dotnet/api/system.argumentnullexception) if argument is null.

## Definition

**Namespace:** [FolkerKinzel.Helpers.Polyfills](#_31FCE499_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static void ThrowIfNull(  Object? argument,  string? paramName ) |

#### Parameters

argument [Object](https://learn.microsoft.com/dotnet/api/system.object)

The argument to check.

paramName [String](https://learn.microsoft.com/dotnet/api/system.string)

The name of the checked parameter.

## See Also

#### Reference

[\_ArgumentNullException Class](#_7EE87DDF_Topic)

[FolkerKinzel.Helpers.Polyfills Namespace](#_31FCE499_Topic)

# \_ArgumentOutOfRangeException Class

Polyfill for [ArgumentOutOfRangeException](https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception).

## Definition

**Namespace:** [FolkerKinzel.Helpers.Polyfills](#_31FCE499_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static class \_ArgumentOutOfRangeException |

|  |  |
| --- | --- |
| **Inheritance** | [Object](https://learn.microsoft.com/dotnet/api/system.object) → \_ArgumentOutOfRangeException |

## Methods

|  |  |
| --- | --- |
| [ThrowIfNegative](#_7041B4FF_Topic) | Throws an [ArgumentOutOfRangeException](https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception) if argument is negative. |
| [ThrowIfNegativeOrZero](#_D854BEED_Topic) | Throws an [ArgumentOutOfRangeException](https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception) if argument is negative or zero. |

## See Also

#### Reference

[FolkerKinzel.Helpers.Polyfills Namespace](#_31FCE499_Topic)

# \_ArgumentOutOfRangeException.ThrowIfNegative Method

Throws an [ArgumentOutOfRangeException](https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception) if argument is negative.

## Definition

**Namespace:** [FolkerKinzel.Helpers.Polyfills](#_31FCE499_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static void ThrowIfNegative(  int argument,  string? paramName ) |

#### Parameters

argument [Int32](https://learn.microsoft.com/dotnet/api/system.int32)

The argument to check.

paramName [String](https://learn.microsoft.com/dotnet/api/system.string)

The name of the checked parameter.

## See Also

#### Reference

[\_ArgumentOutOfRangeException Class](#_AC7CC979_Topic)

[FolkerKinzel.Helpers.Polyfills Namespace](#_31FCE499_Topic)

# \_ArgumentOutOfRangeException.ThrowIfNegativeOrZero Method

Throws an [ArgumentOutOfRangeException](https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception) if argument is negative or zero.

## Definition

**Namespace:** [FolkerKinzel.Helpers.Polyfills](#_31FCE499_Topic)  
**Assembly:** FolkerKinzel.Helpers (in FolkerKinzel.Helpers.dll) Version: 1.1.0+76dd07459b6f0887d6e0e2070bc9d52844ef1765

|  |
| --- |
| C# |
| public static void ThrowIfNegativeOrZero(  int argument,  string? paramName ) |

#### Parameters

argument [Int32](https://learn.microsoft.com/dotnet/api/system.int32)

The argument to check.

paramName [String](https://learn.microsoft.com/dotnet/api/system.string)

The name of the checked parameter.

## See Also

#### Reference

[\_ArgumentOutOfRangeException Class](#_AC7CC979_Topic)

[FolkerKinzel.Helpers.Polyfills Namespace](#_31FCE499_Topic)