Namespace Cobilas

Classes

Filter by title

Cobilas (Cobilas.html)

Utility static class to obtain type or assembly.

INullObject (Cobilas.INullObject.html)

Interrupter (Cobilas.Interrupter.html)

NullObject (Cobilas.NullObject.html)

TypeUtilitarian (Cobilas.TypeUtilitarian.html)

Structs

Interrupter (Cobilas.Interrupter.html)

Represents a list of switches.

NullObject (Cobilas.NullObject.html)

This class represents a null object.

Interfaces

INullObject (Cobilas.INullObject.html)

This interface is used to demonstrate if a specific object is a null representation.

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+ Cobilas.Collections (Cobilas.Collections.html)

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+ System (System.html)

+ System.Collections.Generic

Interface INullObject

This interface is used to demarcate if a specific object is a null representation.

Filter by title

Namespace: Cobilas (Cobilas.html)

Assembly: Cobilas.dll

Syntax

```
public interface INullObject
```

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

Cobilas (Cobilas.html)

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+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

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+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Struct Interrupter

Represents a list of switches.

Filter by title

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ValueType.Equals(object) (https://learn.microsoft.com/dotnet/api/system.valuetype.equals)
ValueType.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.valuetype.gethashcode)
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: Cobilas (Cobilas.html)
Assembly: Cobilas.Core.dll

Syntax

```
[Serializable]
public struct Interrupter : IDisposable
```

Constructor

Interrupter(int)

Only one switch specifying the index will be used, the others will remain at false value.

Declaration

```
public Interrupter(int Capacity)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*Capacity*	How many switches.

Interrupter(int, bool)

Only one switch specifying the index will be used, the others will remain at false value.

Declaration

+ Cobilas (Cobilas.html)
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+ System (System.html)
+ System.Collections.Generic

```
public Interrupter(int Capacity, bool UseASwitch)
```

Parameters

Type		Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)		*Capacity*	How many switches.
bool (https://learn.microsoft.com/dotnet/api/system.boolean)		*UseASwitch*	Allows you to use one switch at a time.

Properties

CurrentIndex

Returns the current switch index.

Declaration

```
public int CurrentIndex { get; }
```

Property Value

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

this[int]

Gets or sets a switch when specifying an index.

Declaration

```
public bool this[int Index] { get; set; }
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*Index*	

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

UseASwitch

This property allows the exchange of a single switch for multiple switches and vice versa.

Declaration

```
public bool UseASwitch { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Methods

Dispose()

Resource disposal.

Declaration

```
public void Dispose()
```

ToString()

Returns a text representation of the object.

Declaration

```
public override string ToString()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ValueType.ToString() (https://learn.microsoft.com/dotnet/api/system.valuetype.tostring)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

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+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic

Struct NullObject

This class represents a null object.

Filter by title

Implements

INullObject (Cobilas.INullObject.html)

Inherited Members

ValueType.Equals(object) (https://learn.microsoft.com/dotnet/api/system.valuetype.equals)
ValueType.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.valuetype.gethashcode)
ValueType.ToString() (https://learn.microsoft.com/dotnet/api/system.valuetype.tostring)
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: Cobilas (Cobilas.html)

Assembly: Cobilas.Core.dll

Syntax

```
public readonly struct NullObject : INullObject
```

Properties

Null

Obtain a null representation of the object

Declaration

```
public static NullObject Null { get; }
```

Property Value

Type	Description
NullObject (Cobilas.NullObject.html)	Retorna uma representação nulo do objeto

Methods

- **Cobilas (Cobilas.html)**
  - INullObject (Cobilas.INullObject.html)
  - Interrupter (Cobilas.Interrupter.html)
  - NullObject (Cobilas.NullObject.html)
  - TypeUtilitarian (Cobilas.TypeUtilitarian.html)
- **Cobilas.Collections (Cobilas.Collections.html)**
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GetNullObject(Type?, bool)

Obtain a null representation of the object that inherits the INullObject (Cobilas.INullObject.html) interface.

Declaration

```
public static object GetNullObject(Type? target, bool ignoreINullObject = false)
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*target*	The type that will be used to obtain a null representation.
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*ignoreINullObject*	It causes the method to return objects that do not inherit INullObject (Cobilas.INullObject.html).

Returns

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	Returns a null representation of the object that inherits the INullObject (Cobilas.INullObject.html) interface.

Exceptions

Type	Condition
InvalidCastException (https://learn.microsoft.com/dotnet/api/system.invalidcastexception)	It occurs when the `target` type does not inherit the INullObject (Cobilas.INullObject.html) interface.
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	It occurs when the `target` parameter is null.

GetNullObject<T>(bool)

Obtain a null representation of the object that inherits the INullObject (Cobilas.INullObject.html) interface.

Declaration

```
public static T GetNullObject<T>(bool ignoreINullObject = false)
```

Parameters

- Cobilas (Cobilas.html)
  - INullObject (Cobilas.INullObject.html)
  - Interrupter (Cobilas.Interrupter.html)
  - NullObject (Cobilas.NullObject.html)
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- Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
- System.Collections.Generic (System.Collections.Generic.ht

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*ignoreINullObject*	It causes the method to return objects that do not inherit INullObject (Cobilas.INullObject.html).

Returns

Type	Description
T	Returns a null representation of the object that inherits the INullObject (Cobilas.INullObject.html) interface.

Type Parameters

Name	Description
T	The type that will be used to obtain a null representation.

Exceptions

Type	Condition
InvalidCastException (https://learn.microsoft.com/dotnet/api/system.invalidcastexception)	It occurs when the `target` type does not inherit the INullObject (Cobilas.INullObject.html) interface.
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	It occurs when the `target` parameter is null.

Implements

INullObject (Cobilas.INullObject.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_Sy

stem_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

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Class TypeUtilitarian

Utility static class to obtain type or assembly.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ TypeUtilitarian

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class TypeUtilitarian
```

Methods

GetAssemblies()

Get all assemblies for the current domain.

Declaration

```
public static Assembly[] GetAssemblies()
```

Returns

Type	Description
Assembly (https://learn.microsoft.com/dotnet/api/system.reflection.assembly)[]	Returns a list all assemblies of the domain.

INullObject (CobilasINullObject.html)
Interrupter (Cobilas.Interrupter.html)
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GetType(string)

Get a specific type.

Declaration

```
public static Type GetType(string fullName)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*fullName*	The full name of the type. (example: `System.String`)

Returns

Type	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	Returns the type that was specified in the parameter. If the specified type is not found had returned the NullObject (Cobilas.NullObject.html) type.

GetTypes()

Get all types of assembly.

Declaration

```
public static Type[] GetTypes()
```

Returns

Type	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)[]	Returns all types of objects from all assemblies.

TypeExist(string)

Checks if the type exists.

Declaration

```
public static bool TypeExist(string fullName)
```

Parameters

INullObject (Cobilas.INullObject.html)
Interrupter (Cobilas.Interrupter.html)
NullObject (Cobilas.NullObject.html)
TypeUtilitarian (Cobilas.TypeUtilitarian.html)
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+ System (System.html)
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Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*fullName*	The full name of the type. (example: `System.String`)

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns `true` when the type exists.

INullObject (Cobilas.INullObject.html)
Interrupter (Cobilas.Interrupter.html)
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Namespace Cobilas.Collections

Classes

Filter by title

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulation.html)
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnumerator-1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIEnumerator-1.html)
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Interfaces

ILongCollection (Cobilas.Collections.ILongCollection.html)

Defines size, enumerators, and synchronization methods for all long non-generic collections.

ILongList (Cobilas.Collections.ILongList.html)

Represents a long non-generic collection of objects that can be accessed individually by index.

Class ArrayManipulation

Array manipulation class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ ArrayManipulation

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class ArrayManipulation
```

Methods

AddNon_Existing<T>(T?, T[]?)

Adds items from a source list to a target list.

The method does not add items that already exist in the target list.

Declaration

```
public static T[]? AddNon_Existing<T>(T? item, T[]? list)
```

Parameters

Type	Name	Description
T	item	The item that will be inserted into the list.
T[]	list	The list that will receive the items.

Returns

Type	Description
T[]	This way, when adding the same object, the operation will not be performed and the list will be returned without being modified.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

AddNon_Existing<T>(T?, ref T[]?)

Adds a list of items to the target list.

The method does not add items that already exist in the target list.

Declaration

```
public static void AddNon_Existing<T>(T? item, ref T[]? list)
```

Parameters

Type	Name	Description
T	*item*	The item that will be inserted into the list.
T[]	*list*	The list that will receive the items.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Add<T>(IEnumerable<T>?, T[]?)

Adds a list of items to the target list.

Declaration

```
public static T[]? Add<T>(IEnumerable<T>? collection, T[]? list)
```

Parameters

Type	Name	Description
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)	*collection*	The items that will be inserted into the list.
T[]	*list*	The list that will receive the items.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Add<T>(IEnumerable<T>?, ref T[]?)

Adds a list of items to the target list.

Declaration

```
public static void Add<T>(IEnumerable<T>? collection, ref T[]? list)
```

Parameters

Type	Name	Description
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)	*collection*	The items that will be inserted into the list.

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
T[]	*list*	The list that will receive the items.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Add<T>(T?, T[]?)

Adds a list of items to the target list.

Declaration

```
public static T[]? Add<T>(T? item, T[]? list)
```

Parameters

Type	Name	Description
T	*item*	The item that will be inserted into the list.
T[]	*list*	The list that will receive the items.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Add<T>(T?, ref T[]?)

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - CollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Adds a list of items to the target list.

Declaration

```
public static void Add<T>(T? item, ref T[]? list)
```

Parameters

Type	Name	Description
T	*item*	The item that will be inserted into the list.
T[]	*list*	The list that will receive the items.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Add<T>(T[]?, T[]?)

Adds a list of items to the target list.

Declaration

```
public static T[]? Add<T>(T[]? itens, T[]? list)
```

Parameters

Type	Name	Description
T[]	*itens*	The items that will be inserted into the list.
T[]	*list*	The list that will receive the items.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
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+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Add<T>(T[]?, ref T[]?)

Adds a list of items to the target list.

Declaration

```
public static void Add<T>(T[]? itens, ref T[]? list)
```

Parameters

Type	Name	Description
T[]	*itens*	The items that will be inserted into the list.
T[]	*list*	The list that will receive the items.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

ArrayLength(ICollection?)

Determines the length of a collection.

Declaration

```
public static int ArrayLength(ICollection? array)
```

Parameters

Type	Name	Description
ICollection (https://learn.microsoft.com/dotnet/api/system.collections.icollection)	*array*	

Returns

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

ArrayLongLength(ILongCollection?)

Determines the length of an Array.

Declaration

```
public static long ArrayLongLength(ILongCollection? array)
```

Parameters

Type	Name	Description
ILongCollection (Cobilas.Collections.ILongCollection.html)	*array*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

ArrayLongLength(Array?)

Determines the length of an Array.

Declaration

```
public static long ArrayLongLength(Array? array)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

ClearArray(Array?)

Array cleaning.

Declaration

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
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  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
  - Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
public static void ClearArray(Array? array)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

ClearArray(Array?, int, int)

Array clearing.

Declaration

```
public static void ClearArray(Array? array, int index, int length)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

ClearArray(Array?, long, long)

Array clearing.

Declaration

```
public static void ClearArray(Array? array, long index, long length)
```

Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume T.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE T.html)
  - ILongCollection (Cobilas.Collections.ILongCollection
  - ILongList (Cobilas.Collections.ILongList.html)
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+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ClearArraySafe(Array?)

Array cleaning.

It will only perform cleaning if the array is not null.

Declaration

```
public static void ClearArraySafe(Array? array)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

ClearArraySafe(Array?, int, int)

Array cleaning.

It will only perform cleaning if the array is not null.

Declaration

```
public static void ClearArraySafe(Array? array, int index, int length)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  ArrayManipulation (Cobilas.Collections.ArrayManipulat
  ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  ILongCollection (Cobilas.Collections.ILongCollection
  ILongList (Cobilas.Collections.ILongList.html)
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+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	

Exceptions

Type	Condition
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

ClearArraySafe(Array?, long, long)

Array cleaning.

It will only perform cleaning if the array is not null.

Declaration

```
public static void ClearArraySafe(Array? array, long index, long length)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

ClearArraySafe<T>(int, int, ref T[]?)

Array cleaning.

In addition to clearing the array, it returns an empty array.

It will only perform cleaning if the array is not null.

Declaration

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
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  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
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+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
public static void ClearArraySafe<T>(int index, int length, ref T[]? array)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	
T[]	*array*	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

ClearArraySafe<T>(long, long, ref T[]?)

Array cleaning.

In addition to clearing the array, it returns an empty array.

It will only perform cleaning if the array is not null.

Declaration

```
public static void ClearArraySafe<T>(long index, long length, ref T[]? array)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	
T[]	*array*	

Type Parameters

Name	Description
T	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE T.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
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+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

+ Cobilas (Cobilas.html)

- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
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+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

ClearArraySafe<T>(ref T[]?)

Array cleaning.

In addition to clearing the array, it returns an empty array.

It will only perform cleaning if the array is not null.

Declaration

```
public static void ClearArraySafe<T>(ref T[]? array)
```

Parameters

Type	Name	Description
T[]?	*array*	

Type Parameters

Name	Description
T	

ClearArray<T>(int, int, ref T[]?)

Array cleaning.

In addition to clearing the array, it returns an empty array.

Declaration

```
public static void ClearArray<T>(int index, int length, ref T[]? array)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	

Type	Name	Description
T[]	*array*	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

ClearArray<T>(long, long, ref T[]?)

Array cleaning.

Declaration

```
public static void ClearArray<T>(long index, long length, ref T[]? array)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	
T[]	*array*	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

+ Cobilas (Cobilas.html)
+ Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToEnumerator<T> (Cobilas.Collections.ArrayToEnu 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
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+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

ClearArray<T>(ref T[]?)

Array cleaning.

In addition to clearing the array, it returns an empty array.

Declaration

```
public static void ClearArray<T>(ref T[]? array)
```

Parameters

Type	Name	Description
T[]	*array*	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

ConvertAll<TInput, TOutput>(TInput[]?, Converter<TInput, TOutput>?)

Converts an array of one type to an array of another type.

Declaration

```
public static TOutput[] ConvertAll<TInput, TOutput>(TInput[]? array, Converter<TInput, TOutp
ut>? converter)
```

Parameters

Type	Name	Description
TInput[]	*array*	The one-dimensional, zero-based Array (https://learn.microsoft.com/dotnet/api/system.array) to convert to a target type.
Converter<TInput, TOutput> (https://learn.microsoft.com/dotnet/api/system.converter-2)	*converter*	A Converter<TInput, TOutput> (https://learn.microsoft.com/dotnet/api/system.converter-2) that converts each element from one type to another type.

Returns

+ Cobilas (Cobilas.html)
+ Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Description
TOutput[]	An array of the target type containing the converted elements from the source array.

Type Parameters

Name	Description
TInput	The type of the elements of the source array.
TOutput	The type of the elements of the target array.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

CopyTo(Array?, Array?)

Copies all the elements of the current one-dimensional array to the specified one-dimensional array.

Declaration

```
public static void CopyTo(Array? sourceArray, Array? destinationArray)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*sourceArray*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*destinationArray*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

CopyTo(Array?, Array?, int)

Copies all the elements of the current one-dimensional array to the specified one-dimensional array.

Declaration

```
public static void CopyTo(Array? sourceArray, Array? destinationArray, int length)
```

Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*sourceArray*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*destinationArray*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

CopyTo(Array?, Array?, long)

Copies all the elements of the current one-dimensional array to the specified one-dimensional array.

Declaration

```
public static void CopyTo(Array? sourceArray, Array? destinationArray, long length)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*sourceArray*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*destinationArray*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	

CopyTo(Array?, int, Array?, int, int)

Copies all the elements of the current one-dimensional array to the specified one-dimensional array.

Declaration

```
public static void CopyTo(Array? sourceArray, int sourceIndex, Array? destinationArray, int
destinationIndex, int length)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*sourceArray*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*sourceIndex*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*destinationArray*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*destinationIndex*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	

CopyTo(Array?, long, Array?, long, long)

Copies all the elements of the current one-dimensional array to the specified one-dimensional array.

Declaration

```
public static void CopyTo(Array? sourceArray, long sourceIndex, Array? destinationArray, long destinationIndex, long length)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*sourceArray*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*sourceIndex*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*destinationArray*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*destinationIndex*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	

EmptyArray(ILongCollection?)

Determines whether the collection is empty or null.

Declaration

```
public static bool EmptyArray(ILongCollection? array)
```

Parameters

Type	Name	Description
ILongCollection (Cobilas.Collections.ILongCollection.html)	*array*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

EmptyArray(ICollection?)

Determines whether the collection is empty or null.

Declaration

```
public static bool EmptyArray(ICollection? array)
```

Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
ICollection (https://learn.microsoft.com/dotnet/api/system.collections.icollection)	*array*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Exists<T>(T?, T[]?)

Determines whether the specified array contains elements that match the conditions defined by the specified predicate.

Declaration

```
public static bool Exists<T>(T? item, T[]? array)
```

Parameters

Type	Name	Description
T	*item*	
T[]	*array*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Type Parameters

Name	Description
T	

Exists<T>(T[]?, Predicate<T>?)

Determines whether the specified array contains elements that match the conditions defined by the specified predicate.

Declaration

```
public static bool Exists<T>(T[]? array, Predicate<T>? match)
```

Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Type Parameters

Name	Description
T	

FindAll<T>(T[]?, Predicate<T>?)

Retrieves all elements that match the conditions defined by the specified predicate.

Declaration

```
public static T[] FindAll<T>(T[]? array, Predicate<T>? match)
```

Parameters

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

FindIndex<T>(T[], int, int, Predicate<T>)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public static int FindIndex<T>(T[] array, int index, int length, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Type Parameters

Name	Description
T	

FindIndex<T>(T[], int, Predicate<T>)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public static int FindIndex<T>(T[] array, int index, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

+ Cobilas (Cobilas.html)

- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Type Parameters

Name	Description
T	

FindIndex<T>(T[], long, long, Predicate<T>?)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public static long FindIndex<T>(T[] array, long index, long length, Predicate<T>? match)
```

Parameters

Type	Name	Description
T[]	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Condition
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindIndex<T>(T[]?, long, Predicate<T>?)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public static long FindIndex<T>(T[]? array, long index, Predicate<T>? match)
```

Parameters

Type	Name	Description
T[]	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindIndex<T>(T[], Predicate<T>)

+ Cobilas (Cobilas.html)
+ Cobilas.Collections (Cobilas.Collections.html)
  ArrayManipulation (Cobilas.Collections.ArrayManipulat
  ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  ILongCollection (Cobilas.Collections.ILongCollectior
  ILongList (Cobilas.Collections.ILongList.html)
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+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public static int FindIndex<T>(T[] array, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Type Parameters

Name	Description
T	

FindLastIndex<T>(T[], int, int, Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

```
public static int FindLastIndex<T>(T[] array, int index, int length, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipula
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindLastIndex<T>(T[], int, Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

```
public static int FindLastIndex<T>(T[] array, int index, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Type Parameters

Name	Description
T	

Exceptions

+ Cobilas (Cobilas.html)
+ Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToEnumerator<T> (Cobilas.Collections.ArrayToEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - LongList (Cobilas.Collections.LongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
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+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

+ Cobilas (Cobilas.html)

+ Cobilas.Collections (Cobilas.Collections.html)

ArrayManipulation (Cobilas.Collections.ArrayManipulat

ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)

ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE .html)

ILongCollection (Cobilas.Collections.ILongCollectior

ILongList (Cobilas.Collections.ILongList.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

FindLastIndex<T>(T[], long, long, Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

```
public static long FindLastIndex<T>(T[] array, long index, long length, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindLastIndex<T>(T[], long, Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

```
public static long FindLastIndex<T>(T[] array, long index, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindLastIndex<T>(T[], Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

```
public static int FindLastIndex<T>(T[] array, Predicate<T> match)
```

Parameters

+ Cobilas (Cobilas.html)
+ Cobilas.Collections (Cobilas.Collections.html)
  ArrayManipulation (Cobilas.Collections.ArrayManipulat
  ArrayToEnumerator<T> (Cobilas.Collections.ArrayToEnume 1.html)
  ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  ILongCollection (Cobilas.Collections.ILongCollectior
  ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindLast<T>(T[]?, Predicate<T>?)

Searches for an element that matches the conditions defined by the specified predicate and returns the first occurrence in the entire Array.

Declaration

```
public static T? FindLast<T>(T[]? array, Predicate<T>? match)
```

Parameters

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
T	

Type Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	

Find<T>(T[]?, Predicate<T>?)

Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire Array.

Declaration

```
public static T? Find<T>(T[]? array, Predicate<T>? match)
```

Parameters

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	

ForSector(Array?, in Action<object, long>?)

The method traverses several parts of a list simultaneously.

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToEnumerator<T> (Cobilas.Collections.ArrayToEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Declaration

```
public static void ForSector(Array? array, in Action<object, long>? action)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<object (https://learn.microsoft.com/dotnet/api/system.object), long (https://learn.microsoft.com/dotnet/api/system.int64)>	*action*	Action that receives the object and the index of the list.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector(Array?, in Action<object, long>?, in long)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector(Array? array, in Action<object, long>? action, in long sectorCo
unt)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<object (https://learn.microsoft.com/dotnet/api/system.object), long (https://learn.microsoft.com/dotnet/api/system.int64)>	*action*	Action that receives the object and the index of the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*sectorCount*	The number of sectors to read.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

+ Cobilas (Cobilas.html)

- Cobilas.Collections (Cobilas.Collections.html)

ArrayManipulation (Cobilas.Collections.ArrayManipulat

ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)

ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)

ILongCollection (Cobilas.Collections.ILongCollectior

ILongList (Cobilas.Collections.ILongList.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

ForSector(IList?, in Action<object, int>?)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector(IList? list, in Action<object, int>? action)
```

Parameters

Type	Name	Description
IList (https://learn.microsoft.com/dotnet/api/system.collections.ilist)	*list*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<object (https://learn.microsoft.com/dotnet/api/system.object), int (https://learn.microsoft.com/dotnet/api/system.int32)>	*action*	Action that receives the object and the index of the list.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector(IList?, in Action<object, int>?, in int)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector(IList? list, in Action<object, int>? action, in int sectorCoun
t)
```

Parameters

Type	Name	Description
IList (https://learn.microsoft.com/dotnet/api/system.collections.ilist)	*list*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<object (https://learn.microsoft.com/dotnet/api/system.object), int (https://learn.microsoft.com/dotnet/api/system.int32)>	*action*	Action that receives the object and the index of the list.
int (https://learn.microsoft.com/dotnet/api/system.int32)	*sectorCount*	The number of sectors to read.

Exceptions

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToEnumerator<T> (Cobilas.Collections.ArrayToEnume 1.html)
  - ICollectionToEnumerator<T> (Cobilas.Collections.ICollectionToEn 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollection
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector<T>(Array?, in Action<T, long>?)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector<T>(Array? array, in Action<T, long>? action)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<T, long (https://learn.microsoft.com/dotnet/api/system.int64)>	*action*	Action that receives the object and the index of the list.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector<T>(Array?, in Action<T, long>?, in long)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector<T>(Array? array, in Action<T, long>? action, in long sectorCoun
t)
```

Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectio
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<T, long (https://learn.microsoft.com/dotnet/api/system.int64)>	*action*	Action that receives the object and the index of the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*sectorCount*	The number of sectors to read.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector<T>(IList<T>?, in Action<T, int>?)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector<T>(IList<T>? list, in Action<T, int>? action)
```

Parameters

Type	Name	Description
IList<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ilist-1)	*list*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<T, int (https://learn.microsoft.com/dotnet/api/system.int32)>	*action*	Action that receives the object and the index of the list.

Type Parameters

Name	Description
T	

Exceptions

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector<T>(IList<T>?, in Action<T, int>?, in int)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector<T>(IList<T>? list, in Action<T, int>? action, in int sectorCount)
```

Parameters

Type	Name	Description
IList<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ilist-1)	*list*	The array that will be read.
Action<T, int> (https://learn.microsoft.com/dotnet/api/system.action-2)	*action*	Action that receives the object and the index of the list.
int (https://learn.microsoft.com/dotnet/api/system.int32)	*sectorCount*	The number of sectors to read.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector<T>(IList<T>, in Action<T, int>?)

The method traverses several parts of a list simultaneously.

Declaration

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE T.html)
  - ILongCollection (Cobilas.Collections.ILongCollection
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
public static void ForSector<T>(IList? list, in Action<T, int>? action)
```

Parameters

Type	Name	Description
IList (https://learn.microsoft.com/dotnet/api/system.collections.ilist)	*list*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<T, int (https://learn.microsoft.com/dotnet/api/system.int32)>	*action*	Action that receives the object and the index of the list.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector<T>(IList?, in Action<T, int>?, in int)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector<T>(IList? list, in Action<T, int>? action, in int sectorCount)
```

Parameters

Type	Name	Description
IList (https://learn.microsoft.com/dotnet/api/system.collections.ilist)	*list*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<T, int (https://learn.microsoft.com/dotnet/api/system.int32)>	*action*	Action that receives the object and the index of the list.
int (https://learn.microsoft.com/dotnet/api/system.int32)	*sectorCount*	The number of sectors to read.

Type Parameters

Name	Description
T	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.h
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeException)	

ForSector<T>(T[]?, in Action<T, long>?)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector<T>(T[]? array, in Action<T, long>? action)
```

Parameters

Type	Name	Description
T[]	*array*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<T, long (https://learn.microsoft.com/dotnet/api/system.int64)>	*action*	Action that receives the object and the index of the list.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForSector<T>(T[]?, in Action<T, long>?, in long)

The method traverses several parts of a list simultaneously.

Declaration

```
public static void ForSector<T>(T[]? array, in Action<T, long>? action, in long sectorCount)
```

Parameters

+ Cobilas (Cobilas.html)
  + Cobilas.Collections (Cobilas.Collections.html)
    + ArrayManipulation (Cobilas.Collections.ArrayManipulat
    + ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
    + ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE r.html)
    + ILongCollection (Cobilas.Collections.ILongCollectior
    + ILongList (Cobilas.Collections.ILongList.html)
  + Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
  + Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
  + Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
  + Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  + Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
  + Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
  + Cobilas.Numeric (Cobilas.Numeric.html)
  + Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
  + Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
T[]	*array*	The array that will be read.
Action (https://learn.microsoft.com/dotnet/api/system.action-2)<T, long (https://learn.microsoft.com/dotnet/api/system.int64)>	*action*	Action that receives the object and the index of the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*sectorCount*	The number of sectors to read.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

IndexOf(object?, Array?)

Searches for the specified object and returns the index of its first occurrence in a one-dimensional array or a range of elements in the array.

Declaration

```
public static int IndexOf(object? item, Array? array)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	array is null

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

IndexOf(object?, Array?, int)

Searches for the specified object and returns the index of its first occurrence in a one-dimensional array or a range of elements in the array.

Declaration

```
public static int IndexOf(object? item, Array? array, int index)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	array is null

IndexOf(object?, Array?, int, int)

Searches for the specified object and returns the index of its first occurrence in a one-dimensional array or a range of elements in the array.

Declaration

```
public static int IndexOf(object? item, Array? array, int index, int length)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	array is null

+ Cobilas (Cobilas.html)

- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

IndexOf(object?, Array?, long)

Searches for the specified object and returns the index of its first occurrence in a one-dimensional array or a range of elements in the array.

Declaration

```
public static long IndexOf(object? item, Array? array, long index)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

IndexOf(object?, Array?, long, long)

Searches for the specified object and returns the index of its first occurrence in a one-dimensional array or a range of elements in the array.

Declaration

```
public static long IndexOf(object? item, Array? array, long index, long length)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Insert<T>(IEnumerable<T>?, long, T[]?)

Insert a list of items at a given index into a target array.

Declaration

```
public static T[]? Insert<T>(IEnumerable<T>? collection, long index, T[]? list)
```

Parameters

Type	Name	Description
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)	*collection*	The items that will be inserted into the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index of the list where the items will be inserted.
T[]	*list*	The list that will receive the items.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Insert<T>(IEnumerable<T>?, long, ref T[]?)

Insert a list of items at a given index into a target array.

Declaration

```
public static void Insert<T>(IEnumerable<T>? collection, long index, ref T[]? list)
```

Parameters

Type	Name	Description
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)	*collection*	The items that will be inserted into the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index of the list where the items will be inserted.
T[]	*list*	The list that will receive the items.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Insert<T>(T?, long, T[]?)

Insert a list of items at a given index into a target array.

Declaration

```
public static T[]? Insert<T>(T? item, long index, T[]? list)
```

Parameters

Type	Name	Description
T	*item*	The item that will be inserted into the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index of the list where the items will be inserted.
T[]	*list*	The list that will receive the items.

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Insert<T>(T?, long, ref T[]?)

Insert a list of items at a given index into a target array.

Declaration

```
public static void Insert<T>(T? item, long index, ref T[]? list)
```

Parameters

Type	Name	Description
T	*item*	The item that will be inserted into the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index of the list where the items will be inserted.
T[]	*list*	The list that will receive the items.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Insert<T>(T[]?, long, T[]?)

Insert a list of items at a given index into a target array.

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - CollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Declaration

```
public static T[]? Insert<T>(T[]? itens, long index, T[]? list)
```

Parameters

Type	Name	Description
T[]	*itens*	The items that will be inserted into the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index of the list where the items will be inserted.
T[]	*list*	The list that will receive the items.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Insert<T>(T[]?, long, ref T[]?)

Insert a list of items at a given index into a target array.

Declaration

```
public static void Insert<T>(T[]? itens, long index, ref T[]? list)
```

Parameters

Type	Name	Description
T[]	*itens*	The items that will be inserted into the list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index of the list where the items will be inserted.
T[]?	*list*	The list that will receive the items.

Type Parameters

- Cobilas (Cobilas.html)
  - Cobilas.Collections (Cobilas.Collections.html)
    - ArrayManipulation (Cobilas.Collections.ArrayManipulat
    - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume T.html)
    - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
    - ILongCollection (Cobilas.Collections.ILongCollectior
    - ILongList (Cobilas.Collections.ILongList.html)
  - Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
  - Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
  - Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
  - Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
  - Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
  - Cobilas.Numeric (Cobilas.Numeric.html)
  - Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
  - Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Name	Description
T	

Exceptions

Type		Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)		

+ Cobilas (Cobilas.html)

- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE .html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

IsFixedSizeSafe(ILongList?)

Determines whether the collection has a fixed size.

Declaration

```
public static bool IsFixedSizeSafe(ILongList? array)
```

Parameters

Type	Name	Description
ILongList (Cobilas.Collections.ILongList.html)	*array*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

IsFixedSizeSafe(IList?)

Determines whether the collection has a fixed size.

Declaration

```
public static bool IsFixedSizeSafe(IList? array)
```

Parameters

Type	Name	Description
IList (https://learn.microsoft.com/dotnet/api/system.collections.ilist)	*array*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

IsReadOnlySafe(ILongList?)

Determines whether the collection is read-only.

Declaration

```
public static bool IsReadOnlySafe(ILongList? array)
```

Parameters

Type	Name	Description
ILongList (Cobilas.Collections.ILongList.html)	*array*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

IsReadOnlySafe(IList?)

Determines whether the collection is read-only.

Declaration

```
public static bool IsReadOnlySafe(IList? array)
```

Parameters

Type	Name	Description
IList (https://learn.microsoft.com/dotnet/api/system.collections.ilist)	*array*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

IsSynchronizedSafe(ILongCollection?)

Determines whether the collection is synchronized.

Declaration

```
public static bool IsSynchronizedSafe(ILongCollection? collection)
```

Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
ILongCollection (Cobilas.Collections.ILongCollection.html)	*collection*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

+ Cobilas (Cobilas.html)

- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE .html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

IsSynchronizedSafe(ICollection?)

Determines whether the collection is synchronized.

Declaration

```
public static bool IsSynchronizedSafe(ICollection? collection)
```

Parameters

Type	Name	Description
ICollection (https://learn.microsoft.com/dotnet/api/system.collections.icollection)	*collection*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

LastIndexOf(object, Array)

Returns the index of the last occurrence of a value in a one-dimensional Array or part of the Array.

Declaration

```
public static int LastIndexOf(object item, Array array)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

LastIndexOf(object, Array, int)

Returns the index of the last occurrence of a value in a one-dimensional Array or part of the Array.

Declaration

```
public static int LastIndexOf(object item, Array array, int index)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

LastIndexOf(object, Array, int, int)

Returns the index of the last occurrence of a value in a one-dimensional Array or part of the Array.

Declaration

```
public static int LastIndexOf(object item, Array array, int index, int length)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

LastIndexOf(object, Array, long)

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Returns the index of the last occurrence of a value in a one-dimensional Array or part of the Array.

Declaration

```
public static long LastIndexOf(object item, Array array, long index)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

LastIndexOf(object?, Array?, long, long)

Returns the index of the last occurrence of a value in a one-dimensional Array or part of the Array.

Declaration

```
public static long LastIndexOf(object? item, Array? array, long index, long length)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

LongClearArray(Array?)

Array cleaning.

Declaration

```
public static void LongClearArray(Array? array)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

LongClearArraySafe(Array?)

Array cleaning.

It will only perform cleaning if the array is not null.

Declaration

```
public static void LongClearArraySafe(Array? array)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

LongClearArraySafe<T>(ref T[]?)

Array cleaning.

In addition to clearing the array, it returns an empty array.

It will only perform cleaning if the array is not null.

Declaration

```
public static void LongClearArraySafe<T>(ref T[]? array)
```

Parameters

Type	Name	Description
T[]	*array*	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

LongClearArray<T>(ref T[]?)

Array cleaning

Declaration

```
public static void LongClearArray<T>(ref T[]? array)
```

Parameters

Type	Name	Description
T[]	*array*	

Type Parameters

Name	Description
T	

Exceptions

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollection
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

+ Cobilas (Cobilas.html)

+ Cobilas.Collections (Cobilas.Collections.html)

ArrayManipulation (Cobilas.Collections.ArrayManipulat

ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)

ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)

ILongCollection (Cobilas.Collections.ILongCollection

ILongList (Cobilas.Collections.ILongList.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

LongConvertAll<TInput, TOutput>(TInput[]?, Converter<TInput, TOutput>?)

Converts an array of one type to an array of another type.

Declaration

```
public static TOutput[] LongConvertAll<TInput, TOutput>(TInput[]? array, Converter<TInput, TOutput>? converter)
```

Parameters

Type	Name	Description
TInput[]	*array*	The one-dimensional, zero-based Array (https://learn.microsoft.com/dotnet/api/system.array) to convert to a target type.
Converter<TInput, TOutput> (https://learn.microsoft.com/dotnet/api/system.converter-2)	*converter*	A Converter<TInput, TOutput> (https://learn.microsoft.com/dotnet/api/system.converter-2) that converts each element from one type to another type.

Returns

Type	Description
TOutput[]	An array of the target type containing the converted elements from the source array.

Type Parameters

Name	Description
TInput	The type of the elements of the source array.
TOutput	The type of the elements of the target array.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

Type	Condition
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	The array cannot be multi-dimensional.

LongFindIndex<T>(T[]?, Predicate<T>?)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public static long LongFindIndex<T>(T[]? array, Predicate<T>? match)
```

Parameters

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

LongFindLastIndex<T>(T[], Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

+ Cobilas (Cobilas.html)
+ Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
public static long LongFindLastIndex<T>(T[] array, Predicate<T> match)
```

Parameters

Type	Name	Description
T[]	*array*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

LongIndexOf(object?, Array?)

Searches for the specified object and returns the index of its first occurrence in a one-dimensional array or a range of elements in the array.

Declaration

```
public static long LongIndexOf(object? item, Array? array)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Returns

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

LongLastIndexOf(object, Array)

Returns the index of the last occurrence of a value in a one-dimensional Array or part of the Array.

Declaration

```
public static long LongLastIndexOf(object item, Array array)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*item*	
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

LongReverse(Array?)

Reverses the order of the elements in a one-dimensional Array or in a portion of the Array.

Declaration

```
public static void LongReverse(Array? array)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The one-dimensional Array to reverse.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	Occurs when `array` parameter is null.

ReadOnlySafe<T>(T[])

Turn a list into a read-only list

Declaration

```
public static ReadOnlyCollection<T> ReadOnlySafe<T>(T[] list)
```

Parameters

Type	Name	Description
T[]	*list*	

Returns

Type	Description
ReadOnlyCollection<T> (https://learn.microsoft.com/dotnet/api/system.collections.objectmodel.readonlycollection-1)	If the list is null, it will return an empty read-only list.

Type Parameters

Name	Description
T	

ReadOnly<T>(T[]?)

Turn a list into a read-only list

Declaration

```
public static ReadOnlyCollection<T> ReadOnly<T>(T[]? list)
```

Parameters

Type	Name	Description
T[]	*list*	

Returns

Type	Description
ReadOnlyCollection<T> (https://learn.microsoft.com/dotnet/api/system.collections.objectmodel.readonlycollection-1)	

Type Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume r.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Name	Description
T	

Remove<T>(long, long, T[]?)

Remove items from the target list.

Declaration

```
public static T[] Remove<T>(long index, long length, T[]? list)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The target index to remove from the target list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	The length and number of items to remove from the list from the index.
T[]	*list*	The list from which items will be removed.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

Remove<T>(long, long, ref T[]?)

Remove items from the target list.

Declaration

```
public static void Remove<T>(long index, long length, ref T[]? list)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The target index to remove from the target list.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	The length and number of items to remove from the list from the index.
T[]	*list*	The list from which items will be removed.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

Remove<T>(long, T[]?)

Remove items from the target list.

Declaration

```
public static T[] Remove<T>(long index, T[]? list)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The target index to remove from the target list.
T[]	*list*	The list from which items will be removed.

Returns

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  ArrayManipulation (Cobilas.Collections.ArrayManipulat
  ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  ILongCollection (Cobilas.Collections.ILongCollectior
  ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

Remove<T>(long, ref T[]?)

Remove items from the target list.

Declaration

```
public static void Remove<T>(long index, ref T[]? list)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The target index to remove from the target list.
T[]	*list*	The list from which items will be removed.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

Remove<T>(T?, T[]?)

+ Cobilas (Cobilas.html)
  + Cobilas.Collections (Cobilas.Collections.html)
    + ArrayManipulation (Cobilas.Collections.ArrayManipulat
    + ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnum 1.html)
    + ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
    + ILongCollection (Cobilas.Collections.ILongCollectior
    + ILongList (Cobilas.Collections.ILongList.html)
  + Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
  + Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
  + Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
  + Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  + Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
  + Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
  + Cobilas.Numeric (Cobilas.Numeric.html)
  + Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
  + Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Remove items from the target list.

Declaration

```
public static T[] Remove<T>(T? item, T[]? list)
```

Parameters

Type	Name	Description
T	*item*	The target item to remove from the target list.
T[]	*list*	The list from which items will be removed.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

Remove<T>(T?, ref T[]?)

Remove items from the target list.

Declaration

```
public static void Remove<T>(T? item, ref T[]? list)
```

Parameters

Type	Name	Description
T	*item*	The target item to remove from the target list.
T[]	*list*	The list from which items will be removed.

Type Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

Resize<T>(ref T[]?, int)

Changes the number of elements of a one-dimensional array to the specified new size.

Declaration

```
public static void Resize<T>(ref T[]? array, int newSize)
```

Parameters

Type	Name	Description
T[]	*array*	
int (https://learn.microsoft.com/dotnet/api/system.int32)	*newSize*	

Type Parameters

Name	Description
T	

Resize<T>(ref T[]?, long)

Changes the number of elements of a one-dimensional array to the specified new size.

Declaration

```
public static void Resize<T>(ref T[]? array, long newSize)
```

Parameters

Type	Name	Description
T[]	*array*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*newSize*	

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	The `newSize` parameter cannot be less than zero.
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	Occurs when `array` parameter is null.

Reverse(Array?)

Reverses the order of the elements in a one-dimensional Array or in a portion of the Array.

Declaration

```
public static void Reverse(Array? array)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The one-dimensional Array to reverse.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	Occurs when `array` parameter is null.

Reverse(Array?, int, int)

Reverses the order of the elements in a one-dimensional Array or in a portion of the Array.

Declaration

```
public static void Reverse(Array? array, int index, int length)
```

Parameters

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  ArrayManipulation (Cobilas.Collections.ArrayManipulat
  ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  ILongCollection (Cobilas.Collections.ILongCollectior
  ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The one-dimensional Array to reverse.
int (https://learn.microsoft.com/dotnet/api/system.int32)	*index*	The starting index of the section to reverse.
int (https://learn.microsoft.com/dotnet/api/system.int32)	*length*	The number of elements in the section to reverse.

Reverse(Array?, long, long)

Reverses the order of the elements in a one-dimensional Array or in a portion of the Array.

Declaration

```
public static void Reverse(Array? array, long index, long length)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The one-dimensional Array to reverse.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The starting index of the section to reverse.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	The number of elements in the section to reverse.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	The array cannot be multi-dimensional.
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

SeparateList<T>(T[]?, long, out T[], out T[])

Separate a list into two using an index.

Declaration

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
public static void SeparateList<T>(T[]? array, long separationIndex, out T[] part1, out T[]
part2)
```

Parameters

Type	Name	Description
T[]	*array*	The list that will be separated.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*separationIndex*	The index where the list will be separated.
T[]	*part1*	
T[]	*part2*	

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

TakeStretch<T>(long, long, T[]?)

This function performs a cut in a list.

Declaration

```
public static T[] TakeStretch<T>(long index, long length, T[]? list)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index where the clipping will begin.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	The index where the clipping will begin.
T[]	*list*	The list that will be cut.

Returns

+ Cobilas (Cobilas.html)
- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Description
T[]	The function will return a list of items that were cut from the original list. The original list will not be modified.

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
IndexOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.indexoutofrangeexception)	

+ **Cobilas (Cobilas.html)**
- **Cobilas.Collections (Cobilas.Collections.html)**
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.IArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

Class ArrayToIEnumerator<T>

Transforms an array into an enumerator.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ArrayToIEnumerator<T>
↳ IEnumerator<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1) <T>
↳ IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.ienumerator)
↳ IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Implements

IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1) <T>
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.ienumerator)
IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html)

Assembly: Cobilas.Core.dll

Syntax

```
public class ArrayToIEnumerator<T> : IEnumerator<T>, IEnumerator, IDisposable
```

Type Parameters

Name	Description
T	

Constructors

ArrayToIEnumerator()

Internal constructor.

Declaration

+ Cobilas.Collections
(Cobilas.Collections.html)
+ Cobilas.Collections.ArrayManipulation
(Cobilas.Collections.ArrayManipulation.html)
+ Cobilas.Collections.ArrayToIEnumerator<T>
(Cobilas.Collections.ArrayToIEnumerator-1.html)
+ Cobilas.Collections.ICollectionToIEnumerator<T>
(Cobilas.Collections.ICollectionToIEnumerator-1.html)
+ Cobilas.Collections.LongCollection
(Cobilas.Collections.LongCollection.html)
+ Cobilas.Collections.Generic
(Cobilas.Collections.Generic.html)
+ Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary
(Cobilas.IO.Serialization.Binary.html)
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.html)
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html)
+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)

```
protected ArrayToIEnumerator()
```

ArrayToIEnumerator(T[]?)

Creates a new instance of this object.

Declaration

```
public ArrayToIEnumerator(T[]? list)
```

Parameters

Type	Name	Description
T[]	*list*	

Fields

current

Declaration

```
protected T current
```

Field Value

Type	Description
T	

index

Declaration

```
protected long index
```

Field Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

+ Cobilas.Collections (Cobilas.Collections.html)
  ArrayManipulation (Cobilas.Collections.ArrayManipulat
  ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  ILongCollection (Cobilas.Collections.ILongCollectior
  ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

list

Declaration

```
protected T[]? list
```

Field Value

Type	Description
T[]	

Properties

Current

Gets the element in the collection at the current position of the enumerator.

Declaration

```
public virtual T current { get; }
```

Property Value

Type	Description
T	

Methods

Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

Declaration

```
public void Dispose()
```

Dispose(bool)

Internal disposal of the object.

Declaration

- Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
- Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
- Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
- Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
- Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
- Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
- Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

MoveNext()

Advances the enumerator to the next element of the collection.

Declaration

```
public virtual bool MoveNext()
```

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Reset()

Sets the enumerator to its initial position, which is before the first element in the collection.

Declaration

```
public virtual void Reset()
```

Implements

IEnumerator<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.ienumerator)
IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

- **Cobilas.Collections (Cobilas.Collections.html)**
  - ArrayManipulation (Cobilas.Collections.ArrayManipular
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
- **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.Collections (Cobilas.Collections.html)**
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
- **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

Class ICollectionToIEnumerator<T>

Transforms a collection into an enumerator.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ ArrayToIEnumerator (Cobilas.Collections.ArrayToIEnumerator-1.html)<T>

↳ ICollectionToIEnumerator<T> (Cobilas.Collections.ArrayManipulation.ICollectionToIEnumerator<T>)

Implements

IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)<T>

IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.ienumerator)

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ArrayToIEnumerator<T>.list (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_list)

ArrayToIEnumerator<T>.index (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_index)

ArrayToIEnumerator<T>.current (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_current)

ArrayToIEnumerator<T>.Dispose() (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_Dispose)

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html)

Assembly: Cobilas.Core.dll

Syntax

```
public class ICollectionToIEnumerator<T> : ArrayToIEnumerator<T>, IEnumerator<T>, IEnumerato
r, IDisposable
```

Type Parameters

Name	Description
T	

+ Cobilas.Collections (Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

Constructors

ICollectionToIEnumerator(ICollection<T>?)

Creates a new instance of this object.

Declaration

```
public ICollectionToIEnumerator(ICollection<T>? collection)
```

Parameters

Type	Name	Description
ICollection<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.icollection-1)	*collection*	

Properties

Current

Gets the element in the collection at the current position of the enumerator.

Declaration

```
public override T Current { get; }
```

Property Value

Type	Description
T	

Overrides

ArrayToIEnumerator<T>.Current (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_Current)

Methods

Dispose(bool)

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

Declaration

- **Cobilas.Collections (Cobilas.Collections.html)**
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
- **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
- **System (System.html)**

```
protected override void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

Overrides

ArrayToIEnumerator<T>.Dispose(bool) (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_Dispose_System_Boolean_)

MoveNext()

Advances the enumerator to the next element of the collection.

Declaration

```
public override bool MoveNext()
```

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ArrayToIEnumerator<T>.MoveNext() (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_MoveNext)

Reset()

Sets the enumerator to its initial position, which is before the first element in the collection.

Declaration

```
public override void Reset()
```

Overrides

ArrayToIEnumerator<T>.Reset() (Cobilas.Collections.ArrayToIEnumerator-1.html#Cobilas_Collections_ArrayToIEnumerator_1_Reset)

Implements

IEnumerator<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)

IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.ienumerator)

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.Collections (Cobilas.Collections.html)**
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToEnumerator<T> (Cobilas.Collections.ArrayToEnume 1.html)
  - ICollectionToEnumerator<T> (Cobilas.Collections.ICollectionToEn 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)

+ **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**

Interface ILongCollection

Defines size, enumerators, and synchronization methods for all long non-generic collections.

Filter by title

Inherited Members

IEnumerable.GetEnumerator() (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable.getenumerator)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html)

Assembly: Cobilas.Core.dll

Syntax

```
public interface ILongCollection : IEnumerable
```

Properties

Count

Gets the number of elements contained in the ILlongCollection (Cobilas.Collections.ILongCollection.html).

Declaration

```
long Count { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

IsSynchronized

Gets a value indicating whether access to the ILongCollection (Cobilas.Collections.ILongCollection.html) is synchronized (thread-safe).

Declaration

```
bool IsSynchronized { get; }
```

Property Value

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

SyncRoot

Gets an object that can be used to synchronize access to the ILongCollection (Cobilas.Collections.ILongCollection.html).

Declaration

```
object SyncRoot { get; }
```

Property Value

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	

Methods

CopyTo(Array, long)

Copies the elements of the ILongCollection (Cobilas.Collections.ILongCollection.html) to an Array, starting at a particular Array index.

Declaration

```
void CopyTo(Array array, long index)
```

Parameters

Type	Name	Description
Array (https://learn.microsoft.com/dotnet/api/system.array)	*array*	The one-dimensional Array that is the destination of the elements copied from ICollection. The Array must have zero-based indexing.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based `index` in array at which copying begins.

Extension Methods

Object_CB_Extension.CompareType(object, Type) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

+ Cobilas.Collections (Cobilas.Collections.html)
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **(Cobilas.Collections.html)**
  - ArrayManipulation (Cobilas.Collections.ArrayManipulat
  - ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
  - ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
  - ILongCollection (Cobilas.Collections.ILongCollectior
  - ILongList (Cobilas.Collections.ILongList.html)

+ **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

+ **Cobilas.Numeric (Cobilas.Numeric.html)**

+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**

+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

+ **System (System.html)**

+ **System.Collections.Generic**

Interface ILongList

Represents a long, non-generic collection of objects that can be accessed individually by index.

Filter by title

Inherited Members

ILongCollection.Count (Cobilas.Collections.ILongCollection.html#Cobilas_Collections_ILongCollection_Count)
ILongCollection.IsSynchronized (Cobilas.Collections.ILongCollection.html#Cobilas_Collections_ILongCollection_IsSynchronized)
ILongCollection.SyncRoot (Cobilas.Collections.ILongCollection.html#Cobilas_Collections_ILongCollection_SyncRoot)
ILongCollection.CopyTo(Array, long) (Cobilas.Collections.ILongCollection.html#Cobilas_Collections_ILongCollection_CopyTo_System_Array_System_Int64_)
IEnumerable.GetEnumerator() (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable.getenumerator)

Namespace: Cobilas.Collections (Cobilas.Collections.html)

Assembly: Cobilas.Core.dll

Syntax

```
public interface ILongList : ILongCollection, IEnumerable
```

Properties

IsFixedSize

Gets a value indicating whether the ILongList (Cobilas.Collections.ILongList.html) has a fixed size.

Declaration

```
bool IsFixedSize { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

IsReadOnly

Gets a value indicating whether the ILongList (Cobilas.Collections.ILongList.html) is read-only.

Declaration

ArrayManipulation (Cobilas.Collections.ArrayManipulat
ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToEnume 1.html)
ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
ILongCollection (Cobilas.Collections.ILongCollectior
ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic

```
bool IsReadOnly { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

this[long]

Gets or sets the element at the specified index.

Declaration

```
object this[long index] { get; set; }
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index of the element to get or set.

Property Value

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	

Methods

Add(object)

Adds an item to the ILongList (Cobilas.Collections.ILongList.html).

Declaration

```
long Add(object value)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to add to the ILongList (Cobilas.Collections.ILlongList.html).

ArrayManipulation (Cobilas.Collections.ArrayManipulat
ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)
ILongCollection (Cobilas.Collections.ILongCollectior
ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	The position into which the new element was inserted, or -1 to indicate that the item was not inserted into the collection.

ArrayManipulation (Cobilas.Collections.ArrayManipulat

ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)

ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE 1.html)

ILongCollection (Cobilas.Collections.ILongCollectior

ILongList (Cobilas.Collections.ILongList.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

Clear()

Removes all items from the ILongList (Cobilas.Collections.ILongList.html).

Declaration

```
void Clear()
```

Contains(object)

Determines whether the ILongList (Cobilas.Collections.ILongList.html) contains a specific value.

Declaration

```
bool Contains(object value)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to locate in the ILongList (Cobilas.Collections.ILongList.html).

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	`true` if the Object is found in the ILongList (Cobilas.Collections.ILongList.html); otherwise, `false`.

IndexOf(object)

Determines the index of a specific item in the ILongList (Cobilas.Collections.ILongList.html).

Declaration

```
long IndexOf(object value)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to locate in the ILongList (Cobilas.Collections.ILongList.html).

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	The index of `value` if found in the list; otherwise, -1.

Insert(long, object)

Inserts an item to the ILongList (Cobilas.Collections.ILongList.html) at the specified index.

Declaration

```
void Insert(long index, object value)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index at which `value` should be inserted.
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to insert into the ILongList (Cobilas.Collections.ILongList.html).

Remove(object)

Removes the first occurrence of a specific object from the ILongList (Cobilas.Collections.ILongList.html).

Declaration

```
void Remove(object value)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to remove from the ILongList (Cobilas.Collections.ILongList.html).

ArrayManipulation (Cobilas.Collections.ArrayManipulat
ArrayToIEnumerator<T> (Cobilas.Collections.ArrayToIEnume 1.html)
ICollectionToIEnumerator<T> (Cobilas.Collections.ICollectionToIE
ILongCollection (Cobilas.Collections.ILongCollectior
ILongList (Cobilas.Collections.ILongList.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht

RemoveAt(long)

Removes the ILongList (Cobilas.Collections.ILongList.html) item at the specified index.

Declaration

```
void RemoveAt(long index)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index of the item to remove.

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.hm

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

Namespace Cobilas.Collections.Generic

Classes

Filter by title

LongList<T> (Cobilas.Collections.Generic.LongList-1.html)

Represents a long, strongly typed list of objects that can be accessed by index. Provides methods for searching, sorting, and manipulating lists.

ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadOnlyLongCollection-1.html)

Provides the base class for a read-only generic Long collection.

Interfaces

ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html)

Defines methods for manipulating Long generic collections.

ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html)

Represents a long collection of objects that can be accessed individually by index.

IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadOnlyLongCollection-1.html)

Represents a long, read-only, strongly typed collection of elements.

IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadOnlyLongList-1.html)

Represents a long read-only collection of elements that can be accessed by index.

+ Cobilas (Cobilas.html)

+ Cobilas.Collections (Cobilas.Collections.html)

- Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)

ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)

IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)

IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)

LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)

ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

Interface ILongCollection<T>

Defines methods for manipulating Long generic collections.

Filter by title

Inherited Members

IEnumerable<T>.GetEnumerator()
(https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1.getenumerator)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html).Generic (Cobilas.Collections.Generic.html)

Assembly: Cobilas.Core.dll

Syntax

```
public interface ILongCollection<T> : IEnumerable<T>, IEnumerable
```

Type Parameters

Name	Description
T	The type of the elements in the collection.

Properties

Count

Gets the number of elements contained in the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
long Count { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

IsReadOnly

Gets a value indicating whether the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html) is read-only.

Declaration

+ Cobilas.Collections (Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
  - ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
  - ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
  - IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
  - ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Con

```
bool IsReadOnly { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Methods

Add(T)

Adds an item to the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
void Add(T item)
```

Parameters

Type	Name	Description
T	item	The object to add to the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html)

Clear()

Removes all items from the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
void Clear()
```

Contains(T)

Determines whether the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html) contains a specific value.

Declaration

```
bool Contains(T item)
```

Parameters

+ Cobilas.Collections (Cobilas.Collections.html)

- Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)

ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)

IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)

IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)

LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)

ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Con

Type	Name	Description
T	*item*	The object to locate in the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	`true` if `item` is found in the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html); otherwise, `false`.

CopyTo(T[], long)

Copies the elements of the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html) to an Array, starting at a particular Array index.

Declaration

```
void CopyTo(T[] array, long arrayIndex)
```

Parameters

Type	Name	Description
T[]	*array*	The one-dimensional Array that is the destination of the elements copied from ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html). The Array must have zero-based indexing.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*arrayIndex*	The zero-based index in `array` at which copying begins.

Remove(T)

Removes the first occurrence of a specific object from the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
bool Remove(T item)
```

Parameters

+ Cobilas.Collections (Cobilas.Collections.html)
- Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
  - ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
  - ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
  - IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
  - ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Con

Type	Name	Description
T	*item*	The object to remove from the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.Collections (Cobilas.Collections.html)

- Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

- ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
- ILonglist<T> (Cobilas.Collections.Generic.ILongLi 1.html)
- IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadO 1.html)
- IReadOnlyLonglist<T> (Cobilas.Collections.Generic.IReadO 1.html)
- LongCollection<T> (Cobilas.Collections.Generic.LongC 1.html)
- Longlist<T> (Cobilas.Collections.Generic.Longli 1.html)
- ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert

Interface ILongList<T>

Represents a long collection of objects that can be accessed individually by index.

Filter by title

Inherited Members

ILongCollection<T>.Count (Cobilas.Collections.Generic.ILongCollection-1.html#Cobilas_Collections_Generic_ILongCollection_1_Count)
ILongCollection<T>.IsReadOnly (Cobilas.Collections.Generic.ILongCollection-1.html#Cobilas_Collections_Generic_ILongCollection_1_IsReadOnly)
ILongCollection<T>.Add(T) (Cobilas.Collections.Generic.ILongCollection-1.html#Cobilas_Collections_Generic_ILongCollection_1_Add__0_)
ILongCollection<T>.Clear() (Cobilas.Collections.Generic.ILongCollection-1.html#Cobilas_Collections_Generic_ILongCollection_1_Clear)
ILongCollection<T>.Contains(T) (Cobilas.Collections.Generic.ILongCollection-1.html#Cobilas_Collections_Generic_ILongCollection_1_Contains__0_)
ILongCollection<T>.CopyTo(T[], long) (Cobilas.Collections.Generic.ILongCollection-1.html#Cobilas_Collections_Generic_ILongCollection_1_CopyTo__0___System_Int64_)
ILongCollection<T>.Remove(T) (Cobilas.Collections.Generic.ILongCollection-1.html#Cobilas_Collections_Generic_ILongCollection_1_Remove__0_)
IEnumerable<T>.GetEnumerator() (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1.getenumerator)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html).Generic (Cobilas.Collections.Generic.html)

Assembly: Cobilas.Core.dll

Syntax

```
public interface ILongList<T> : ILongCollection<T>, IEnumerable<T>, IEnumerable
```

Type Parameters

Name	Description
T	The type of elements in the list.

Properties

this[long]

Gets or sets the element at the specified index.

Declaration

```
T this[long index] { get; set; }
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Property Value

Type	Description
T	

Methods

IndexOf(T)

Determines the index of a specific item in the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html).

Declaration

```
long IndexOf(T item)
```

Parameters

Type	Name	Description
T	*item*	The object to locate in the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html).

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	The index of `item` if found in the list; otherwise, -1.

Insert(long, T)

Inserts an item to the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html) at the specified index.

Declaration

```
void Insert(long index, T item)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index at which `item` should be inserted.

- Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
  - ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
  - ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
  - IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
  - ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert

Type	Name	Description
T	*item*	The object to insert into the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html).

RemoveAt(long)

Removes the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html) item at the specified index.

Declaration

```
void RemoveAt(long index)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index of the item to remove.

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert

Interface IReadOnlyLongCollection<T>

Represents a long, read-only, strongly typed collection of elements.

Filter by title

Inherited Members

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.html)

IEnumerable<T> GetEnumerator()
(https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1.getenumerator)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html).Generic (Cobilas.Collections.Generic.html)

Assembly: Cobilas.Core.dll

Syntax

```
public interface IReadOnlyLongCollection<out T> : IEnumerable<T>, IEnumerable
```

Type Parameters

Name	Description
T	The type of the elements. This type parameter is covariant. That is, you can use either the type you specified or any type that is more derived. For more information about covariance and contravariance, see Covariance and Contravariance in Generics.

Properties

Count

Gets the number of elements in the collection.

Declaration

```
long Count { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.html)

IReadOnlyLongCollection<T>
(Cobilas.Collections.Generic.ILongC
1.html)
ILongList<T>
(Cobilas.Collections.Generic.ILongL
1.html)
IReadOnlyLongCollection<T>
(Cobilas.Collections.Generic.IReadC
1.html)
IReadOnlyLongList<T>
(Cobilas.Collections.Generic.IReadC
1.html)
LongList<T>
(Cobilas.Collections.Generic.LongLi
1.html)
ReadOnlyLongCollection<T>
(Cobilas.Collections.Generic.ReadO
1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
  - ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
  - ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
  - IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
  - ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**

Interface IReadOnlyLongList<T>

Represents a long read-only collection of elements that can be accessed by index.

Filter by title

Inherited Members

IReadOnlyLongCollection<T>.Count (Cobilas.Collections.Generic.IReadOnlyLongCollection-1.html#Cobilas_Collections_Generic_IReadOnlyLongCollection_1_Count)

IEnumerable<T>.GetEnumerator() (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1.getenumerator)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html).Generic (Cobilas.Collections.Generic.html)

Assembly: Cobilas.Core.dll

Syntax

```
public interface IReadOnlyLongList<out T> : IReadOnlyLongCollection<T>, IEnumerable<T>, IEnu
merable
```

Type Parameters

Name	Description
T	The type of elements in the read-only list. This type parameter is covariant. That is, you can use either the type you specified or any type that is more derived. For more information about covariance and contravariance, see Covariance and Contravariance in Generics.

Properties

this[long]

Gets the element at the specified index in the read-only list.

Declaration

```
T this[long index] { get; }
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Property Value

- **Cobilas.Collections.Generic (Cobilas.Collections.Generic.html)**
  - ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
  - ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
  - IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
  - LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
  - ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks**

Type	Description
T	

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
  - LongCollection<T> (Cobilas.Collections.Generic.LongC 1.html)
  - LongList<T> (Cobilas.Collections.Generic.LongL 1.html)
  - ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadC 1.html)
  - ReadOnlyLongList<T> (Cobilas.Collections.Generic.ReadC 1.html)
  - LongList<T> (Cobilas.Collections.Generic.LongL 1.html)
  - ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks**

Class LongList<T>

Represents a long, strongly typed list of objects that can be accessed by index. Provides methods for searching, sorting, and manipulating lists.

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ LongList<T>

Implements

ILongList (Cobilas.Collections.Generic.ILongList-1.html)<T>
ILongCollection (Cobilas.Collections.Generic.ILongCollection-1.html)<T>
IReadOnlyLongList (Cobilas.Collections.Generic.IReadOnlyLongList-1.html)<T>
IReadOnlyLongCollection (Cobilas.Collections.Generic.IReadOnlyLongCollection-1.html)<T>
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<T>
ILongList (Cobilas.Collections.ILongList.html)
ILongCollection (Cobilas.Collections.ILongCollection.html)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)
ICloneable (https://learn.microsoft.com/dotnet/api/system.icloneable)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html).Generic (Cobilas.Collections.Generic.html)
Assembly: Cobilas.Core.dll

Syntax

```
[Serializable]
public class LongList<T> : ILongList<T>, ILongCollection<T>, IReadOnlyLongList<T>, IReadOnly
LongCollection<T>, IEnumerable<T>, ILongList, ILongCollection, IEnumerable, ICloneable
```

Type Parameters

Name	Description
T	The type of elements in the list.

Constructors

LongList()

Creates a new instance of the object.

Declaration

```
public LongList()
```

Parameters

Type	Name	Description

LongList(IEnumerable<T>)

Creates a new instance of the object.

Declaration

```
public LongList(IEnumerable<T> collection)
```

Parameters

Type	Name	Description
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)	*collection*	

LongList(long)

Creates a new instance of the object.

Declaration

```
public LongList(long capacity)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*capacity*	

LongList(params T[])

Creates a new instance of the object.

Declaration

```
public LongList(params T[] items)
```

Parameters

Type	Name	Description
T[]	*items*	

Implements

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
public LongList(params T[] collection)
```

Parameters

Type	Name	Description
T[]	*collection*	

Properties

Capacity

Gets or sets the total number of elements the internal data structure can hold without resizing.

Declaration

```
public long Capacity { get; set; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Count

Gets the number of elements contained in the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
public long Count { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

IsReadOnly

Gets a value indicating whether the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html) is read-only.

Declaration

(Cobilas.Collections.Generic.ht

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)

ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)

IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)

IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)

LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)

ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf

(Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components

(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text

(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.

Binary

(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json

(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric

(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert

(Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

(Cobilas.Threading.Tasks.html)

```
public bool IsReadOnly { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

this[long]

Gets or sets the element at the specified index.

Declaration

```
public T this[long index] { get; set; }
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Property Value

Type	Description
T	

Methods

Add(T)

Adds an item to the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
public void Add(T item)
```

Parameters

Type	Name	Description
T	*item*	The object to add to the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html)

(Cobilas.Collections.Generic.ht

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)

LongList<T> (Cobilas.Collections.Generic.ILongL 1.html)

IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)

IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)

LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)

ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

AddRange(IEnumerable<T>)

Adds the elements of the specified collection to the end of the LongList<T> (Cobilas.Collections.Generic.LongList-1.html).

Declaration

```
public void AddRange(IEnumerable<T> collection)
```

Parameters

Type	Name	Description
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1?view=net-8.0)	*collection*	The collection whose elements should be added to the end of the LongList<T> (Cobilas.Collections.Generic.LongList-1.html). The collection itself cannot be `null`, but it can contain elements that are `null`, if type `T` is a reference type.

AsReadOnly()

Returns a read-only ReadOnlyLongCollection< T > wrapper for the current collection.

Declaration

```
public ReadOnlyLongCollection<T> AsReadOnly()
```

Returns

Type	Description
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadOnlyLongCollection-1.html)	

Clear()

Removes all items from the LongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
public void Clear()
```

Clone()

Creates a new object that is a copy of the current instance.

Declaration

```
public object Clone()
```

Returns

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	A new object that is a copy of this instance.

Contains(Predicate<T>)

Determines whether the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html) contains a specific value.

Declaration

```
public bool Contains(Predicate<T> match)
```

Parameters

Type	Name	Description
Predicate<T> (https://learn.microsoft.com/dotnet/api/system.predicate-1)	*match*	The match parameter allows you to create custom comparison logic.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	`true` if `item` is found in the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html); otherwise, `false`.

Contains(T)

Determines whether the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html) contains a specific value.

Declaration

```
public bool Contains(T item)
```

Parameters

+ Cobilas.Collections.Generic.ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html)
+ Cobilas.Collections.Generic.ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html)
+ Cobilas.Collections.Generic.IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadOnlyLongCollection-1.html)
+ Cobilas.Collections.Generic.IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadOnlyLongList-1.html)
+ Cobilas.Collections.Generic.LongList<T> (Cobilas.Collections.Generic.LongList-1.html)
+ Cobilas.Collections.Generic.ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadOnlyLongCollection-1.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
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Type	Name	Description
T	*item*	The object to locate in the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	`true` if `item` is found in the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html); otherwise, `false`.

ConvertAll<TOutput>(Converter<T, TOutput>)

Converts an array of one type to an array of another type.

Declaration

```
public TOutput[] ConvertAll<TOutput>(Converter<T, TOutput> converter)
```

Parameters

Type	Name	Description
Converter<T, TOutput> (https://learn.microsoft.com/dotnet/api/system.converter-2)	*converter*	A Converter<TInput, TOutput> (https://learn.microsoft.com/dotnet/api/system.converter-2) that converts each element from one type to another type.

Returns

Type	Description
TOutput[]	An array of the target type containing the converted elements from the source array.

Type Parameters

Name	Description
TOutput	The type of the elements of the target array.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	The array cannot be multi-dimensional.

(Cobilas.Collections.Generic.ht
ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO n.html)
+ Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)

CopyTo(T[], long)

Copies the elements of the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html) to an Array, starting at a particular Array index.

Declaration

```
public void CopyTo(T[] array, long arrayIndex)
```

Parameters

Type	Name	Description
T[]	*array*	The one-dimensional Array that is the destination of the elements copied from ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html). The Array must have zero-based indexing.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*arrayIndex*	The zero-based index in `array` at which copying begins.

Find(Predicate<T>)

Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire Array.

Declaration

```
public T Find(Predicate<T> match)
```

Parameters

Type	Name	Description
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

FindAll(Predicate<T>)

Retrieves all elements that match the conditions defined by the specified predicate.

Declaration

```
public T[] FindAll(Predicate<T> match)
```

Parameters

Type	Name	Description
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
T[]	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	

FindIndex(long, long, Predicate<T>)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public long FindIndex(long startIndex, long count, Predicate<T> match)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*startIndex*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*count*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

(Cobilas.Collections.Generic.ht

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)

ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)

IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)

IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)

LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)

ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindIndex(long, Predicate<T>)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

```
public long FindIndex(long startIndex, Predicate<T> match)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*startIndex*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindIndex(Predicate<T>)

Searches for an element that matches the conditions defined by the specified predicate and returns the zero-based index of the first occurrence within the range of elements in the Array that starts at the specified index and contains the specified number of elements.

Declaration

▼ (Cobilas.Collections.Generic.ht
ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
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+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

```
public long FindIndex(Predicate<T> match)
```

Parameters

Type	Name	Description
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

FindLast(Predicate<T>)

Searches for an element that matches the conditions defined by the specified predicate and returns the first occurrence in the entire Array.

Declaration

```
public T FindLast(Predicate<T> match)
```

Parameters

Type	Name	Description
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
T	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	

FindLastIndex(long, long, Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

(Cobilas.Collections.Generic.ht

LongCollection<T>
(Cobilas.Collections.Generic.ILongC
1.html)
LongList<T>
(Cobilas.Collections.Generic.ILongL
1.html)
IReadOnlyLongCollection<T>
(Cobilas.Collections.Generic.IReadC
1.html)
IReadOnlyLongList<T>
(Cobilas.Collections.Generic.IReadC
1.html)
LongList<T>
(Cobilas.Collections.Generic.LongLi
1.html)
ReadOnlyLongCollection<T>
(Cobilas.Collections.Generic.ReadO
1.html)

+ Cobilas.IO.Atlf

(Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components

(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text

(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.

Binary

(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json

(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric

(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert

(Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

(Cobilas.Threading.Tasks.html)

```
public long FindLastIndex(long startIndex, long count, Predicate<T> match)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*startIndex*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*count*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindLastIndex(long, Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

```
public long FindLastIndex(long startIndex, Predicate<T> match)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*startIndex*	
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

FindLastIndex(Predicate<T>)

Searches for an element that matches the conditions defined by a specified predicate and returns the zero-based index of the last occurrence in an Array or part of it.

Declaration

```
public long FindLastIndex(Predicate<T> match)
```

Parameters

Type	Name	Description
Predicate (https://learn.microsoft.com/dotnet/api/system.predicate-1)<T>	*match*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ForEach(Action<T>)

Performs the specified action on each element of the LongList<T> (Cobilas.Collections.Generic.LongList-1.html).

Declaration

```
public void ForEach(Action<T> action)
```

Parameters

▼ (Cobilas.Collections.Generic.ht
ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Type	Name	Description
Action (https://learn.microsoft.com/dotnet/api/system.action-1)<T>	*action*	The Action<T> (https://learn.microsoft.com/dotnet/api/system.action-1) delegate to perform on each element of the LongList<T> (Cobilas.Collections.Generic.LongList-1.html).

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	

GetEnumerator()

Returns an enumerator that iterates through the collection.

Declaration

```
public IEnumerator<T> GetEnumerator()
```

Returns

Type	Description
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)<T>	An enumerator that can be used to iterate through the collection.

GetRange(long, long)

Creates a shallow copy of a range of elements in the source LongList<T> (Cobilas.Collections.Generic.LongList-1.html).

Declaration

```
public LongList<T> GetRange(long index, long count)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based LongList<T> (Cobilas.Collections.Generic.LongList-1.html) index at which the range starts.

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*count*	The number of elements in the range.

Returns

Type	Description
LongList<T> (Cobilas.Collections.Generic.LongList-1.html)	A shallow copy of a range of elements in the source LongList<T> (Cobilas.Collections.Generic.LongList-1.html).

Exceptions

Type	Condition
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

IndexOf(T)

Determines the index of a specific item in the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html).

Declaration

```
public long IndexOf(T item)
```

Parameters

Type	Name	Description
T	*item*	The object to locate in the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html).

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	The index of `item` if found in the list; otherwise, -1.

Insert(long, T)

Inserts an item to the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html) at the specified index.

Declaration

```
public void Insert(long index, T item)
```


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- ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)
- IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
- IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
- LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
- ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index at which `item` should be inserted.
T	*item*	The object to insert into the ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html).

InsertRange(long, IEnumerable<T>)

Inserts the elements of a collection into the LongList<T> (Cobilas.Collections.Generic.LongList-1.html) at the specified index.

Declaration

```
public void InsertRange(long index, IEnumerable<T> collection)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index at which the new elements should be inserted.
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)	*collection*	The collection whose elements should be inserted into the LongList<T> (Cobilas.Collections.Generic.LongList-1.html). The collection itself cannot be `null`, but it can contain elements that are `null`, if type `T` is a reference type.

Remove(T)

Removes the first occurrence of a specific object from the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

Declaration

```
public bool Remove(T item)
```

Parameters

Type	Name	Description
T	*item*	The object to remove from the ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html).

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)
ILongList<T> (Cobilas.Collections.Generic.ILongL .html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)
LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

RemoveAll(Predicate<T>)

Removes all the elements that match the conditions defined by the specified predicate.

Declaration

```
public long RemoveAll(Predicate<T> match)
```

Parameters

Type	Name	Description
Predicate<T> (https://learn.microsoft.com/dotnet/api/system.predicate-1)	*match*	The Predicate<T> (https://learn.microsoft.com/dotnet/api/system.predicate-1) delegate that defines the conditions of the elements to remove.

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	The number of elements removed from the LongList<T> (Cobilas.Collections.Generic.LongList-1.html).

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	

RemoveAt(long)

Removes the LongList<T> (Cobilas.Collections.Generic.ILongList-1.html) item at the specified index.

Declaration

```
public void RemoveAt(long index)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based index of the item to remove.

(Cobilas.Collections.Generic.ht
ILongCollection<T>
(Cobilas.Collections.Generic.ILongC
1.html)
ILongList<T>
(Cobilas.Collections.Generic.ILongL
1.html)
IReadOnlyLongCollection<T>
(Cobilas.Collections.Generic.IReadC
1.html)
IReadOnlyLongList<T>
(Cobilas.Collections.Generic.IReadC
1.html)
LongList<T>
(Cobilas.Collections.Generic.LongLi
1.html)
ReadOnlyLongCollection<T>
(Cobilas.Collections.Generic.ReadO
1.html)
+ Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)

RemoveRamge(long, long)

Removes a range of elements from the LongList<T> (Cobilas.Collections.Generic.LongList-1.html)

Declaration

```
public void RemoveRamge(long index, long count)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The zero-based starting index of the range of elements to remove.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*count*	The number of elements to remove.

Reverse()

Reverses the order of the elements in a one-dimensional Array or in a portion of the Array.

Declaration

```
public void Reverse()
```

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	Occurs when `array` parameter is null.

Reverse(long, long)

Reverses the order of the elements in a one-dimensional Array or in a portion of the Array.

Declaration

```
public void Reverse(long index, long length)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The starting index of the section to reverse.

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*length*	The number of elements in the section to reverse.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
RankException (https://learn.microsoft.com/dotnet/api/system.rankexception)	The array cannot be multi-dimensional.
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

ToArray()

Copies the elements of the LongList<T> (Cobilas.Collections.Generic.LongList-1.html) to a new array.

Declaration

```
public T[] ToArray()
```

Returns

Type	Description
T[]	

Implements

ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html)
ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadOnlyLongList-1.html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadOnlyLongCollection-1.html)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
ILongList (Cobilas.Collections.ILongList.html)
ILongCollection (Cobilas.Collections.ILongCollection.html)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)
ICloneable (https://learn.microsoft.com/dotnet/api/system.icloneable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

▼ **(Cobilas.Collections.Generic.ht**

- ILongCollection<T>
  (Cobilas.Collections.Generic.ILongC
  1.html)
- ILongList<T>
  (Cobilas.Collections.Generic.ILongL
  1.html)
- IReadOnlyLongCollection<T>
  (Cobilas.Collections.Generic.IReadC
  1.html)
- IReadOnlyLongList<T>
  (Cobilas.Collections.Generic.IReadC
  1.html)
- LongList<T>
  (Cobilas.Collections.Generic.LongLi
  1.html)
- ReadOnlyLongCollection<T>
  (Cobilas.Collections.Generic.ReadO
  1.html)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Class ReadOnlyLongCollection<T>

Provides the base class for a read-only generic Long collection.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ReadOnlyLongCollection<T>

Implements

ILongList (Cobilas.Collections.ILongList.html)
ILongCollection (Cobilas.Collections.ILongCollection.html)
ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html)<T>
ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html)<T>
IReadOnlyLongList (Cobilas.Collections.Generic.IReadOnlyLongList-1.html)<T>
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadOnlyLongCollection-1.html)<T>
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<T>
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)
ICloneable (https://learn.microsoft.com/dotnet/api/system.icloneable)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Collections (Cobilas.Collections.html).Generic (Cobilas.Collections.Generic.html)
Assembly: Cobilas.Core.dll

Syntax

```
[Serializable]
public class ReadOnlyLongCollection<T> : ILongList, ILongCollection, ILongList<T>, ILongCollection<T>, IReadOnlyLongList<T>, IReadOnlyLongCollection<T>, IEnumerable<T>, IEnumerable, ICloneable
```

Type Parameters

Name	Description
T	The type of elements in the collection.

Constructors

ReadOnlyLongCollection(IEnumerable<T>)

Creates a new instance of the object.

Declaration

```
public ReadOnlyLongCollection(IEnumerable<T> enumerable)
```

Parameters

Type	Name	Description
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)	*enumerable*	

Properties

Count

Gets the number of elements contained in the ILongCollection (Cobilas.Collections.ILongCollection.html).

Declaration

```
public long Count { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

this[long]

Gets the element at the specified index in the read-only list.

Declaration

```
public T this[long index] { get; }
```

Parameters

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

ICollection<T> (Cobilas.Collections.Generic.ICollection-1.html)
IReadOnlyCollection<T> (Cobilas.Collections.Generic.IReadOnlyCollection-1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadOnlyLongList-1.html)
LongList<T> (Cobilas.Collections.Generic.LongList-1.html)
ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadOnlyLongCollection-1.html)

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Property Value

Type	Description
T	

Methods

Clone()

Creates a new object that is a copy of the current instance.

Declaration

```
public object Clone()
```

Returns

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	A new object that is a copy of this instance.

GetEnumerator()

Returns an enumerator that iterates through the collection.

Declaration

```
public IEnumerator<T> GetEnumerator()
```

Returns

Type	Description
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1) <T>	An enumerator that can be used to iterate through the collection.

Implements

ILongList (Cobilas.Collections.ILongList.html)

ILongCollection<T> (Cobilas.Collections.Generic.ILongC 1.html)

ILongList<T> (Cobilas.Collections.Generic.ILongL 1.html)

IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadC 1.html)

IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadC 1.html)

LongList<T> (Cobilas.Collections.Generic.LongLi 1.html)

ReadOnlyLongCollection<T> (Cobilas.Collections.Generic.ReadO 1.html)

ILongCollection (Cobilas.Collections.ILongCollection.html)
ILongList<T> (Cobilas.Collections.Generic.ILongList-1.html)
ILongCollection<T> (Cobilas.Collections.Generic.ILongCollection-1.html)
IReadOnlyLongList<T> (Cobilas.Collections.Generic.IReadOnlyLongList-1.html)
IReadOnlyLongCollection<T> (Cobilas.Collections.Generic.IReadOnlyLongCollection-1.html)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)
ICloneable (https://learn.microsoft.com/dotnet/api/system.icloneable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

Namespace Cobilas.IO.Atlf

Classes

Filter by title

+ Cobilas.Collections (Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

- ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
- ATLFException (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)

Base class for all ATLF classes.

ATLFException (Cobilas.IO.Atlf.ATLFException.html)

Class to generate ATLF exceptions.

ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)

Base class for ATLF read classes.

ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)

Base class for stream readers for ATLF.

ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)

Base class for stream writers for ATLF.

ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.html)

This class allows you to read a stream in ATLF format.

ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.html)

This class allows you to write a stream in ATLF format.

ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)

Base class for string readers for ATLF.

ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)

Base class for string writers for ATLF.

ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.html)

This class allows you to read a string in ATLF format.

ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html)

This class allows you to write a string in ATLF format.

ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

Base class for ATLF writing classes.

Structs

ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)

Represents an ATLF node.

Enums

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)

Represents the ATLF node type.

+ Cobilas.Collections (Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

Class ATLFBase

Base class for all ATLF classes.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase
↳ ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
↳ ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system.object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFBase : IDisposable
```

Properties

CloseFlow

This ATLFWriter is used to close the workflow automatically.

This property should be used in cases where you directly access a stream. Example: when a flow is called using the File (https://learn.microsoft.com/dotnet/api/system.io.file).Open(string) method.

Declaration

```
protected abstract bool CloseFlow { get; set; }
```

Property Value

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.htm
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Closed

Indicates whether the stream has been closed.

Declaration

```
public abstract bool Closed { get; protected set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Encoding

Sets or returns the encoding used.

Declaration

```
public abstract Encoding Encoding { get; set; }
```

Property Value

Type	Description
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	

Indent

Determines whether text should be indented.

Declaration

```
public abstract bool Indent { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

+ Cobilas.Collections
(Cobilas.Collections.html)

+ Cobilas.Collections.Generic
(Cobilas.Collections.Generic.ht

- Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)
ATLFBase
(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binar

NodeCount

The number of ATLF nodes stored.

Declaration

```
public abstract long NodeCount { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Nodes

Where ATLF nodes are stored.

Declaration

```
protected abstract ATLFNode[] Nodes { get; set; }
```

Property Value

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

RefObject

Sets or returns the current stream.

Declaration

```
protected abstract MarshalByRefObject RefObject { get; set; }
```

Property Value

Type	Description
MarshalByRefObject (https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject)	

TargetVersion

Represents the version that the ATLF object is using.

Declaration

+ Cobilas.Collections (Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binar

```
public abstract string TargetVersion { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

Close()

Allows you to close the current flow.

Declaration

```
public abstract void Close()
```

Dispose()

Allows you to discard the current stream.

Declaration

```
public abstract void Dispose()
```

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic
(Cobilas.Collections.Generic.ht

- Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)

ATLFBase
(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binar

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

ATLFBase
(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
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(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization. Binar

Class ATLFException

Class to generate ATLF exceptions.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ Exception (https://learn.microsoft.com/dotnet/api/system.exception)

↳ ATLFException

Implements

ISerializable (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.iserializable)

Inherited Members

Exception.GetBaseException() (https://learn.microsoft.com/dotnet/api/system.exception.getbaseexception)
Exception.GetType() (https://learn.microsoft.com/dotnet/api/system.exception.gettype)
Exception.ToString() (https://learn.microsoft.com/dotnet/api/system.exception.tostring)
Exception.Data (https://learn.microsoft.com/dotnet/api/system.exception.data)
Exception.HelpLink (https://learn.microsoft.com/dotnet/api/system.exception.helplink)
Exception.HResult (https://learn.microsoft.com/dotnet/api/system.exception.hresult)
Exception.InnerException (https://learn.microsoft.com/dotnet/api/system.exception.innerexception)
Exception.Message (https://learn.microsoft.com/dotnet/api/system.exception.message)
Exception.Source (https://learn.microsoft.com/dotnet/api/system.exception.source)
Exception.StackTrace (https://learn.microsoft.com/dotnet/api/system.exception.stacktrace)
Exception.TargetSite (https://learn.microsoft.com/dotnet/api/system.exception.targetsite)
Exception.SerializeObjectState (https://learn.microsoft.com/dotnet/api/system.exception.serializeobjectstate)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.Core.dll

Syntax

```
public class ATLFException : Exception, ISerializable
```

Constructors

ATLFException()

Initializes a new instance of the Exception (https://learn.microsoft.com/dotnet/api/system.exception) class.

Declaration

```
public ATLFException()
```

ATLFException(SerializationInfo, StreamingContext)

Initializes a new instance of the Exception (https://learn.microsoft.com/dotnet/api/system.exception) class with serialized data.

Declaration

```
[Obsolete("This API supports obsolete formatter-based serialization. It should not be called
or extended by application code.", DiagnosticId = "SYSLIB0051")]
protected ATLFException(SerializationInfo info, StreamingContext context)
```

Parameters

Type	Name	Description
SerializationInfo (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.serializationinfo)	*info*	The SerializationInfo (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.serializationinfo) that holds the serialized object data about the exception being thrown.
StreamingContext (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.streamingcontext)	*context*	The StreamingContext (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.streamingcontext) that contains contextual information about the source or destination.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	`info` is null (https://learn.microsoft.com/dotnet/csharp/language-reference/keywords/null)
SerializationException (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.serializationexception)	The class name is null (https://learn.microsoft.com/dotnet/csharp/language-reference/keywords/null) or HResult (https://learn.microsoft.com/dotnet/api/system.exception.hresult) is zero (0).

+ **Cobilas.Collections.Generic (Cobilas.Collections.Generic.html)**
+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
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  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary**

ATLFException(string)

Initializes a new instance of the Exception (https://learn.microsoft.com/dotnet/api/system.exception) class with a specified error message.

Declaration

```
public ATLFException(string message)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*message*	The message that describes the error.

ATLFException(string, Exception)

Initializes a new instance of the Exception (https://learn.microsoft.com/dotnet/api/system.exception) class with a specified error message and a reference to the inner exception that is the cause of this exception.

Declaration

```
public ATLFException(string message, Exception inner)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*message*	The error message that explains the reason for the exception.
Exception (https://learn.microsoft.com/dotnet/api/system.exception)	*inner*	

Methods

ATLFClosed()

msg:The ATLFWriter object has already been closed.

Declaration

```
public static InvalidOperationException ATLFClosed()
```

Returns

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
  - Types
    - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
    - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
    - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
    - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
    - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
    - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
    - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
    - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
    - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
    - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
    - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
    - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
    - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
    - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary

Type	Description
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	

ATLFFlowAfterClosing()

msg:It is not possible to release resources to the flow after closing the ATLF object.

Declaration

```
public static InvalidOperationException ATLFFlowAfterClosing()
```

Returns

Type	Description
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	

ATLFReaderAfterClosing()

msg:The read operation cannot be done after closing the ATLF object!

Declaration

```
public static InvalidOperationException ATLFReaderAfterClosing()
```

Returns

Type	Description
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	

ATLFReaderTagAfterClosing()

msg:The tag reading operation cannot be done after closing the ATLF object!

Declaration

```
public static InvalidOperationException ATLFReaderTagAfterClosing()
```

Returns

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary

Type	Description
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	

ATLFTagsAfterClosing()

msg:You cannot add new tags to the stream after closing the ATLF object.

Declaration

```
public static InvalidOperationException ATLFTagsAfterClosing()
```

Returns

Type	Description
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	

GetATLFException(string, params object[])

I build an exception ATLFException (Cobilas.IO.Atlf.ATLFException.html).

Declaration

```
public static ATLFException GetATLFException(string format, params object[] args)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*format*	
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

Type	Description
ATLFException (Cobilas.IO.Atlf.ATLFException.html)	

GetObjectData(SerializationInfo, StreamingContext)

When overridden in a derived class, sets the SerializationInfo (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.serializationinfo) with information about the exception.

Declaration

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
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  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
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  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary

```
[Obsolete("This API supports obsolete formatter-based serialization. It should not be called
or extended by application code.", DiagnosticId = "SYSLIB0051")]
public override void GetObjectData(SerializationInfo info, StreamingContext context)
```

Parameters

Type	Name	Description
SerializationInfo (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.serializationinfo)	*info*	The SerializationInfo (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.serializationinfo) that holds the serialized object data about the exception being thrown.
StreamingContext (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.streamingcontext)	*context*	The StreamingContext (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.streamingcontext) that contains contextual information about the source or destination.

Overrides

Exception.GetObjectData(SerializationInfo, StreamingContext) (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.serializationinfo)

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullException)	The `info` parameter is a null reference (`Nothing` in Visual Basic).

Implements

ISerializable (https://learn.microsoft.com/dotnet/api/system.runtime.serialization.iserializable)

Extension Methods

Object_CB_Extension.CompareType(object, Type) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[]) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

ATLFBase
(Cobilas.IO.Atlf.ATLFBase.html)
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ATLFStreamReader
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ATLFTBReader
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ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization. Binary

Struct ATLFNode

Represents an ATLF node.

Filter by title

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ValueType.Equals(object) (https://learn.microsoft.com/dotnet/api/system.valuetype.equals)
ValueType.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.valuetype.gethashcode)
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system.object-system.object))
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.Core.dll

Syntax

```
public struct ATLFNode : IDisposable
```

Properties

Name

The name of the node.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

NodeType

The type of node.

Declaration

```
public NodeType NodeType { get; }
```


+ Cobilas.Collections.Generic.ht
(Cobilas.Collections.Generic.html)

+ Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)
AtlfBase
(Cobilas.IO.Atlf.AtlfBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

```
public readonly ATLFNodeType NodeType { get; }
```

Property Value

Type	Description
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)	

Value

The value of the node.

Declaration

```
public readonly string Value { get; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

Declaration

```
public void Dispose()
```

ToString()

Returns the fully qualified type name of this instance.

Declaration

```
public override readonly string ToString()
```

Returns

- **(Cobilas.Collections.Generic.ht**
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- **+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	The fully qualified type name.

Overrides

ValueType.ToString() (https://learn.microsoft.com/dotnet/api/system.valuetype.tostring)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

- ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
- ATLFException (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

Enum ATLFNodeType

Represents the ATLF node type.

Filter by title

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.Core.dll

Syntax

```
public enum ATLFNodeType : byte
```

Fields

Name	Description
Comment	ATLF Comment.
Spacing	The spacing used in the ATLF file.
Tag	ATLF element.

Extension Methods

Enum_CB_Extension.Format(Enum, object, string)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_Format_System_Enum_System_Object_System_String_)

Enum_CB_Extension.GetEnumPair(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetEnumPair_System_Enum_)

Enum_CB_Extension.GetEnumPairs(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetEnumPairs_System_Enum_)

Enum_CB_Extension.GetName(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetName_System_Enum_)

Enum_CB_Extension.GetName(Enum, object)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetName_System_Enum_System_Object_)

Enum_CB_Extension.GetNames(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetNames_System_Enum_)

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_Syste

- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.**
- **Cobilas.IO.Serialization.Json**

m_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**

  ATLFBase
  (Cobilas.IO.Atlf.ATLFBase.html)
  ATLFException
  (Cobilas.IO.Atlf.ATLFException.html)
  ATLFNode
  (Cobilas.IO.Atlf.ATLFNode.html)
  ATLFNodeType
  (Cobilas.IO.Atlf.ATLFNodeType.html
  ATLFReader
  (Cobilas.IO.Atlf.ATLFReader.html)
  ATLFSBReader
  (Cobilas.IO.Atlf.ATLFSBReader.html)
  ATLFSBWriter
  (Cobilas.IO.Atlf.ATLFSBWriter.html)
  ATLFStreamReader
  (Cobilas.IO.Atlf.ATLFStreamReader.h
  ATLFStreamWriter
  (Cobilas.IO.Atlf.ATLFStreamWriter.h
  ATLFTBReader
  (Cobilas.IO.Atlf.ATLFTBReader.html)
  ATLFTBWriter
  (Cobilas.IO.Atlf.ATLFTBWriter.html)
  ATLFTextReader
  (Cobilas.IO.Atlf.ATLFTextReader.htm
  ATLFTextWriter
  (Cobilas.IO.Atlf.ATLFTextWriter.html
  ATLFWriter
  (Cobilas.IO.Atlf.ATLFWriter.html)

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json**

Class ATLFReader

Base class for ATLF read classes.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFReader (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
↳ ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Inherited Members

ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)
ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)
ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)
ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)
ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)
ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)
ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)
ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)
ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)
ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFReader : ATLFBase, IDisposable, IEnumerable<ATLFNode>, IEnumerable
```

Methods

Create(Stream)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(Stream stream)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*stream*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create(TextReader)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(TextReader text)
```

Parameters

Type	Name	Description
TextReader (https://learn.microsoft.com/dotnet/api/system.io.textreader)	*text*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create(String)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(String path)
```

Parameters

Type	Name	Description
String (https://learn.microsoft.com/dotnet/api/system.io.stream)	*path*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create(Stream, Encoding)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(Stream stream, Encoding encoding)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*stream*	
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create(String, Encoding)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(String path, Encoding encoding)
```

Parameters

Type	Name	Description
String (https://learn.microsoft.com/dotnet/api/system.io.stream)	*path*	
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create(Stream, Encoding, Boolean)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(Stream stream, Encoding encoding, Boolean leaveOpen)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*stream*	
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	
Boolean (https://learn.microsoft.com/dotnet/api/system.boolean)	*leaveOpen*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create(String, Encoding, Boolean)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(String path, Encoding encoding, Boolean leaveOpen)
```

Parameters

Type	Name	Description
String (https://learn.microsoft.com/dotnet/api/system.io.stream)	*path*	
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	
Boolean (https://learn.microsoft.com/dotnet/api/system.boolean)	*leaveOpen*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

- Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

- ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
- ATLFException (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
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- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

```
public static ATLFReader Create(string filePath)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*filePath*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create(StringBuilder)

Creates a new instance of an ATLF object.

Declaration

```
public static ATLFReader Create(StringBuilder builder)
```

Parameters

Type	Name	Description
StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder)	*builder*	

Returns

Type	Description
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)	

Create<T>(Stream)

Creates a new instance of an ATLF object.

Declaration

```
public static T Create<T>(Stream stream) where T : ATLFSBReader
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*stream*	

Returns

- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

Type	Description
T	

Type Parameters

Name	Description
T	

Create<T>(TextReader)

Creates a new instance of an ATLF object.

Declaration

```
public static T Create<T>(TextReader text) where T : ATLFTBReader
```

Parameters

Type	Name	Description
TextReader (https://learn.microsoft.com/dotnet/api/system.io.textreader)	*text*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

Create<T>(string)

Creates a new instance of an ATLF object.

Declaration

```
public static T Create<T>(string filePath) where T : ATLFSBReader
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*filePath*	

Returns

- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

Type	Description
T	

Type Parameters

Name	Description
T	

Create<T>(StringBuilder)

Creates a new instance of an ATLF object.

Declaration

```
public static T Create<T>(StringBuilder builder) where T : ATLFTBReader
```

Parameters

Type	Name	Description
StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder)	*builder*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

GetATLFDecoding(string)

Gets the ATLF encoding.

Declaration

```
protected abstract ATLFDecoding GetATLFDecoding(string targetVersion)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*targetVersion*	

Returns

- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- **+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

Type	Description
ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)	The method returns the encoder corresponding to the version passed in the `targetVersion` parameter. If the previous version does not exist, the default version will be returned.

GetAllComments()

Gets all comments from the ATLF file.

Declaration

```
public abstract ATLFNode[] GetAllComments()
```

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

GetEnumerator()

Gets all nodes within the buffer.

Declaration

```
public abstract IEnumerator<ATLFNode> GetEnumerator()
```

Returns

Type	Description
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)< ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>	

GetHeader()

Gets the ATLF header tags.

Declaration

```
public abstract ATLFNode[] GetHeader()
```

Returns

- Cobilas.IO.Atlf.ATLFException (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.html)
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

GetTag(string)

Gets the value of the tag.

Declaration

```
public abstract ATLFNode GetTag(string name)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	The name of the target tag.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

GetTagGroup(string)

Gets a group of ATLF tags within a path.

Declaration

```
public abstract ATLFNode[] GetTagGroup(string path)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*path*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	Returns a list of ATLF tags according to a path. Example: there are three nodes with the name `com.cob.lib.tag1`, `com.cob.lib.tag2` and `com.cob.cli.tag-1` and passing in the `path` parameter `com.cob.lib` the tags `tag1` and `tag2` will be obtained.

- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

Starts the process of reading the ATLF file.

Declaration

```
public abstract void Reader()
```

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
  - ATLFBase<T> (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

Class ATLFSBReader

Base class for stream readers for ATLF.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
↳ ATLFSBReader
↳ ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Inherited Members

ATLFReader.Reader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Reader)
ATLFReader.GetHeader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetHeader)
ATLFReader.GetTag(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTag_System_String_)
ATLFReader.GetAllComments() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetAllComments)
ATLFReader.GetTagGroup(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTagGroup_System_String_)
ATLFReader.GetEnumerator() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetEnumerator)
ATLFReader.GetATLFDecoding(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetATLFDecoding_System_String_)
ATLFReader.Create<T>(Stream) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_Stream_)
ATLFReader.Create<T>(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_String_)
ATLFReader.Create<T>(TextReader) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_TextReader_)
ATLFReader.Create<T>(StringBuilder) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_Text_StringBuilder_)
ATLFReader.Create(Stream) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_Stream_)
ATLFReader.Create(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_String_)
ATLFReader.Create(TextReader) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_TextReader_)
ATLFReader.Create(StringBuilder) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_Text_StringBuilder_)
ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)
ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)
ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)
ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)

ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)
ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)
ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)
ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)
ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)
ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)
Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFSBReader : ATLFReader, IDisposable, IEnumerable<ATLFNode>, IEnumerable
```

Properties

Stream

Represents the stream converted to Stream (https://learn.microsoft.com/dotnet/api/system.io.stream).

Declaration

```
protected abstract Stream Stream { get; set; }
```

Property Value

Type	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable<ATLFNode> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.IO.Atlf.html)**
  - ATLFBase
    (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException
    (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode
    (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType
    (Cobilas.IO.Atlf.ATLFNodeType.html
  - ATLFReader
    (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader
    (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter
    (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader
    (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter
    (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader
    (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter
    (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader
    (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter
    (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter
    (Cobilas.IO.Atlf.ATLFWriter.html)
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

Class ATLFSBWriter

Base class for stream writers for ATLF.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
↳ ATLFSBWriter
↳ ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ATLFWriter.IndentChars (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_IndentChars)
ATLFWriter.Flush() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Flush)
ATLFWriter.WriteHeader() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteHeader)
ATLFWriter.WriteComment(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteComment_System_String_)
ATLFWriter.WriteWhitespace(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_String_)
ATLFWriter.WriteNode(string, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteNode_System_String_System_String_)
ATLFWriter.WriteWhitespace(int, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_Int32_System_String_)
ATLFWriter.GetATLFEncoding(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_GetATLFEncoding_System_String_)
ATLFWriter.AddNode(string, string, ATLFNodeType)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_AddNode_System_String_System_String_Cobilas_IO_Atlf_ATLFNodeType_)
ATLFWriter.Create<T>(Stream)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_Stream_)
ATLFWriter.Create<T>(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_String_)
ATLFWriter.Create<T>(TextWriter)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_TextWriter_)
ATLFWriter.Create<T>(StringBuilder)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_)
ATLFWriter.Create<T>(StringBuilder, IFormatProvider)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_System_IFormatProvider_)
ATLFWriter.Create(Stream)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_Stream_)
ATLFWriter.Create(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_String_)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric

ATLFWriter.Create(TextWriter)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_TextWriter_)
ATLFWriter.Create(StringBuilder)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_)
ATLFWriter.Create(StringBuilder, IFormatProvider)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_System_IFormatProvider_)
ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)
ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)
ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)
ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)
ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)
ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)
ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)
ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)
ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)
ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)
Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFSBWriter : ATLFWriter, IDisposable
```

Properties

Stream

Represents the stream converted to Stream (https://learn.microsoft.com/dotnet/api/system.io.stream).

Declaration

```
protected abstract Stream Stream { get; set; }
```

Property Value

Type	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

ATLFBase
(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.htm
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric

Class ATLFStreamReader

This class allows you to read a stream in ATLF format.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
↳ ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
↳ ATLFStreamReader

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Inherited Members

ATLFReader.Create<T>(Stream) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_Stream_)
ATLFReader.Create<T>(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_String_)
ATLFReader.Create<T>(TextReader) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_TextReader_)
ATLFReader.Create<T>(StringBuilder) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_Text_StringBuilder_)
ATLFReader.Create(Stream) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_Stream_)
ATLFReader.Create(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_String_)
ATLFReader.Create(TextReader) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_TextReader_)
ATLFReader.Create(StringBuilder) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_Text_StringBuilder_)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas.IO.Atlf (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.IO.Serialization.dll

Syntax

+ **Cobilas.IO.Atlf.Components**
  (Cobilas.IO.Atlf.Components.ht
+ **Cobilas.IO.Atlf.Text**
  (Cobilas.IO.Atlf.Text.html)
+ **Cobilas.IO.Serialization.**
  Binary
  (Cobilas.IO.Serialization.Binary
+ **Cobilas.IO.Serialization.Json**
  (Cobilas.IO.Serialization.Json.h
+ **Cobilas.Numeric**
  (Cobilas.Numeric.html)

```
public class ATLFStreamReader : ATLFSBReader, IDisposable, IEnumerable<ATLFNode>, IEnumerabl
e
```

Properties

CloseFlow

This property is used to close the workflow automatically.

This property should be used in cases where you directly access a stream. Example: when a flow is called using the File (https://learn.microsoft.com/dotnet/api/system.io.file).Open(string) method.

Declaration

```
protected override bool CloseFlow { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)

Closed

Indicates that the flow has been closed.

Declaration

```
public override bool Closed { get; protected set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)

Encoding

Sets or returns the encoding used.

+ Cobilas
(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)

Declaration

```
public override Encoding Encoding { get; set; }
```

Property Value

Type	Description
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	

Overrides

ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)

Indent

Determines whether text should be indented.

Declaration

```
public override bool Indent { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)

NodeCount

The number of ATLF nodes stored.

Declaration

```
public override long NodeCount { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Overrides

ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)

Nodes

- ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
- ATLFException (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

Where ATLF nodes are stored.

Declaration

```
protected override ATLFNode[] Nodes { get; set; }
```

Property Value

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)

RefObject

Sets or returns the current stream.

Declaration

```
protected override MarshalByRefObject RefObject { get; set; }
```

Property Value

Type	Description
MarshalByRefObject (https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject)	

Overrides

ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)

Stream

Represents the stream converted to Stream (https://learn.microsoft.com/dotnet/api/system.io.stream).

Declaration

```
protected override Stream Stream { get; set; }
```

Property Value

Type	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	

Overrides

ATLFSBReader.Stream (Cobilas.IO.Atlf.ATLFSBReader.html#Cobilas_IO_Atlf_ATLFSBReader_Stream)

ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

TargetVersion

Represents the version that the ATLF object is using.

Declaration

```
public override string TargetVersion { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)

Methods

Close()

Allows you to close the current flow.

Declaration

```
public override void Close()
```

Overrides

ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)

Dispose()

Allows you to discard the current stream.

Declaration

```
public override void Dispose()
```

Overrides

ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)

Dispose(bool)

Performs an internal disposal of the object.

Declaration

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)

ATLFException (Cobilas.IO.Atlf.ATLFException.html)

ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)

ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)

ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)

ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)

ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h

ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h

ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)

ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)

ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.html

ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html

ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~ATLFStreamReader()

Declaration

```
protected override void ~ATLFStreamReader()
```

GetATLFDecoding(string)

Gets the ATLF encoding.

Declaration

```
protected override ATLFDecoding GetATLFDecoding(string targetVersion)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*targetVersion*	

Returns

Type	Description
ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)	The method returns the encoder corresponding to the version passed in the `targetVersion` parameter. If the previous version does not exist, the default version will be returned.

Overrides

ATLFReader.GetATLFDecoding(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetATLFDecoding_System_String_)

GetAllComments()

Gets all comments from the ATLF file.

Declaration

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)

ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

```
public override ATLFNode[] GetAllComments()
```

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFReader.GetAllComments() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetAllComments)

GetEnumerator()

Gets all nodes within the buffer.

Declaration

```
public override IEnumerator<ATLFNode> GetEnumerator()
```

Returns

Type	Description
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)<ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>	

Overrides

ATLFReader.GetEnumerator() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetEnumerator)

GetHeader()

Gets the ATLF header tags.

Declaration

```
public override ATLFNode[] GetHeader()
```

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFReader.GetHeader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetHeader)

GetTag(string)

Gets the value of the tag.

Declaration

```
public override string GetTag(string name)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	The name of the target tag.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFReader.GetTag(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTag_System_String_)

GetTagGroup(string)

Gets a group of ATLF tags within a path.

Declaration

```
public override ATLFNode[] GetTagGroup(string path)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*path*	

Returns

Type	Description
ATLFNode[] (Cobilas.IO.Atlf.ATLFNode.html)	Returns an array of ATLF tags according to a path. Example: there are three nodes with the name `com.cob.lib.tag1`, `com.cob.lib.tag2` and `com.cob.cli.tag-1` and passing in the `path` parameter `com.cob.lib` the tags `tag1` and `tag2` will be obtained.

Overrides

ATLFReader.GetTagGroup(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTagGroup_System_String_)

Reader()

Starts the process of reading the ATLF file.

ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)

Declaration

```
public override void Reader()
```

Overrides

ATLFReader.Reader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Reader)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System_Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System_Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System_Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System_Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System_Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System_Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System_Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- ATLFBase
  (Cobilas.IO.Atlf.ATLFBase.html)
- ATLFException
  (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode
  (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType
  (Cobilas.IO.Atlf.ATLFNodeType.html
- ATLFReader
  (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSbReader
  (Cobilas.IO.Atlf.ATLFSbReader.html)
- ATLFSbWriter
  (Cobilas.IO.Atlf.ATLFSbWriter.html)
- ATLFStreamReader
  (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter
  (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTbReader
  (Cobilas.IO.Atlf.ATLFTbReader.html)
- ATLFTbWriter
  (Cobilas.IO.Atlf.ATLFTbWriter.html)
- ATLFTextReader
  (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter
  (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter
  (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

Class ATLFStreamWriter

This class allows you to write a stream in ATLF format.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
↳ ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
↳ ATLFStreamWriter

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ATLFWriter.Create<T>(Stream) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_Stream_)
ATLFWriter.Create<T>(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_String_)
ATLFWriter.Create<T>(TextWriter) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_TextWriter_)
ATLFWriter.Create<T>(StringBuilder) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_)
ATLFWriter.Create<T>(StringBuilder, IFormatProvider) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_System_IFormatProvider_)
ATLFWriter.Create(Stream) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_Stream_)
ATLFWriter.Create(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_String_)
ATLFWriter.Create(TextWriter) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_TextWriter_)
ATLFWriter.Create(StringBuilder) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_)
ATLFWriter.Create(StringBuilder, IFormatProvider) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_System_IFormatProvider_)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.html)**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.html)**
- **Cobilas.Numeric (Cobilas.Numeric.html)**

Assembly: Cobilas.Core.dll

Syntax

```
public class ATLFStreamWriter : ATLFSBWriter, IDisposable
```


(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.h
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)

Properties

CloseFlow

This property is used to close the workflow automatically.

This property should be used in cases where you directly access a stream. Example: when a flow is called using the File (https://learn.microsoft.com/dotnet/api/system.io.file).Open(string) method.

Declaration

```
protected override bool CloseFlow { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)

Closed

Indicate whether the flow has been closed.

Declaration

```
public override bool Closed { get; protected set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)

Encoding

Sets or returns the encoding used.

Declaration

```
public override Encoding Encoding { get; set; }
```

Property Value

Type	Description
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	

Overrides

ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)

Indent

Determines whether text should be indented.

Declaration

```
public override bool Indent { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)

IndentChars

Represents the character of indentation.

Declaration

```
public override string IndentChars { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFWriter.IndentChars (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_IndentChars)

(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

NodeCount

The number of ATLF nodes stored.

Declaration

```
public override long NodeCount { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Overrides

ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)

Nodes

Where ATLF nodes are stored.

Declaration

```
protected override ATLFNode[] Nodes { get; set; }
```

Property Value

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)

RefObject

Sets or returns the current stream.

Declaration

```
protected override MarshalByRefObject RefObject { get; set; }
```

Property Value

Type	Description
MarshalByRefObject (https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject)	

Overrides

ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

Stream

Represents the stream converted to Stream (https://learn.microsoft.com/dotnet/api/system.io.stream).

Declaration

```
protected override Stream Stream { get; set; }
```

Property Value

Type	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	

Overrides

ATLFSBWriter.Stream (Cobilas.IO.Atlf.ATLFSBWriter.html#Cobilas_IO_Atlf_ATLFSBWriter_Stream)

TargetVersion

Represents the version that the ATLF object is using.

Declaration

```
public override string TargetVersion { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)

Methods

AddNode(string, string, ATLFNodeType)

Adds a new node to the buffer.

Declaration

```
protected override void AddNode(string name, string value, ATLFNodeType nodeType)
```

Parameters

+ Cobilas.IO.Atlf.Components
  (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
  (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
  Binary
  (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
  (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
  (Cobilas.Numeric.html)

(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)	*nodeType*	

Overrides

ATLFWriter.AddNode(string, string, ATLFNodeType) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_AddNode_System_String_System_String_Cobilas_IO_Atlf_ATLFNodeType_)

Close()

Allows you to close the current flow.

Declaration

```
public override void Close()
```

Overrides

ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)

Dispose()

Allows you to discard the current stream.

Declaration

```
public override void Dispose()
```

Overrides

ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)

Dispose(bool)

Performs an internal disposal of the object.

Declaration

```
protected override void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

- Cobilas.IO.Atlf.ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- **+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **+ Cobilas.Numeric (Cobilas.Numeric.html)**

~ATLFStreamWriter()

Declaration

```
protected ~ATLFStreamWriter()
```

Flush()

When overridden in a derived class, clears all buffers for this stream and causes any buffered data to be written to the underlying device.

Declaration

```
public override void Flush()
```

Overrides

ATLFWriter.Flush() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Flush)

GetATLFEncoding(string)

Gets the ATLF encoding.

Declaration

```
protected override ATLFEncoding GetATLFEncoding(string targetVersion)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*targetVersion*	

Returns

Type	Description
ATLFEncoding (Cobilas.IO.Atlf.text.ATLFEncoding.html)	The method returns the encoder corresponding to the version passed in the `targetVersion` parameter. If the previous version does not exist, the default version will be returned.

Overrides

ATLFWriter.GetATLFEncoding(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_GetATLFEncoding_System_String_)

WriteComment(string)

Write a comment in the stream.

(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)

Declaration

```
public override void WriteComment(string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	Write the message.

Overrides

ATLFWriter.WriteComment(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteComment_System_String_)

WriteHeader()

Writes the atlf header to the stream.

Declaration

```
public override void WriteHeader()
```

Overrides

ATLFWriter.WriteHeader() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteHeader)

WriteIndentation()

Performs automatic indentation.

Declaration

```
protected void WriteIndentation()
```

WriteNode(string, string)

Writes an ATLF node to the stream.

Declaration

```
public override void WriteNode(string name, string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	

(Cobilas.IO.Atlf.ATLFBase.html)
ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	

Overrides

ATLFWriter.WriteNode(string, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteNode_System_String_System_String_)

WriteWhitespace(int, string)

Writes an escape character to the stream.

Declaration

```
public override void WriteWhitespace(int count, string spacing)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*count*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*spacing*	

Overrides

ATLFWriter.WriteWhitespace(int, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_Int32_System_String_)

WriteWhitespace(string)

Writes an escape character to the stream.

Declaration

```
public override void WriteWhitespace(string spacing)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*spacing*	

Overrides

ATLFWriter.WriteWhitespace(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_String_)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

- ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
  - ATLFException (Cobilas.IO.Atlf.ATLFException.html)
  - ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
- + Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- + Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
- + Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
- + Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- + Cobilas.Numeric (Cobilas.Numeric.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- (Cobilas.IO.Atlf.ATLFBase.html)
- ATLFException
  (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode
  (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType
  (Cobilas.IO.Atlf.ATLFNodeType.html)
- ATLFReader
  (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader
  (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter
  (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader
  (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter
  (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader
  (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter
  (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader
  (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter
  (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter
  (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

Class ATLFTBReader

Base class for string readers for ATLF.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
↳ ATLFTBReader
↳ ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Inherited Members

ATLFException
(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

ATLFReader.Reader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Reader)
ATLFReader.GetHeader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetHeader)
ATLFReader.GetTag(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTag_System_String_)
ATLFReader.GetAllComments() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetAllComments)
ATLFReader.GetTagGroup(string)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTagGroup_System_String_)
ATLFReader.GetEnumerator() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetEnumerator)
ATLFReader.GetATLFDecoding(string)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetATLFDecoding_System_String_)
ATLFReader.Create<T>(Stream)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_Stream_)
ATLFReader.Create<T>(string)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_String_)
ATLFReader.Create<T>(TextReader)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_TextReader_)
ATLFReader.Create<T>(StringBuilder)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_Text_StringBuilder_)
ATLFReader.Create(Stream)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_Stream_)
ATLFReader.Create(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_String_)
ATLFReader.Create(TextReader)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_TextReader_)
ATLFReader.Create(StringBuilder)
(Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_Text_StringBuilder_)
ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)
ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)
ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)
ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert

ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)
ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)
ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)
ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)
ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)
ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)
Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFTBReader : ATLFReader, IDisposable, IEnumerable<ATLFNode>, IEnumerable
```

Properties

Stream

Represents the stream converted to TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter).

Declaration

```
protected abstract TextReader Stream { get; set; }
```

Property Value

Type	Description
TextReader (https://learn.microsoft.com/dotnet/api/system.io.textreader)	

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

▼ ATLFException (Cobilas.IO.Atlf.ATLFException.html)
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html)
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
+ Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- ATLFException
  (Cobilas.IO.Atlf.ATLFException.html)
- ATLFNode
  (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType
  (Cobilas.IO.Atlf.ATLFNodeType.html)
- ATLFReader
  (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader
  (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter
  (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader
  (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter
  (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader
  (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter
  (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader
  (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter
  (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter
  (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert

Class ATLFTBWriter

Base class for string writers for ATLF.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
↳ ATLFTBWriter
↳ ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ATLFWriter.IndentChars (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_IndentChars)
ATLFWriter.Flush() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Flush)
ATLFWriter.WriteHeader() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteHeader)
ATLFWriter.WriteComment(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteComment_System_String_)
ATLFWriter.WriteWhitespace(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_String_)
ATLFWriter.WriteNode(string, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteNode_System_String_System_String_)
ATLFWriter.WriteWhitespace(int, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_Int32_System_String_)
ATLFWriter.GetATLFEncoding(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_GetATLFEncoding_System_String_)
ATLFWriter.AddNode(string, string, ATLFNodeType)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_AddNode_System_String_System_String_Cobilas_IO_Atlf_ATLFNodeType_)
ATLFWriter.Create<T>(Stream)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_Stream_)
ATLFWriter.Create<T>(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_String_)
ATLFWriter.Create<T>(TextWriter)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_TextWriter_)
ATLFWriter.Create<T>(StringBuilder)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_)
ATLFWriter.Create<T>(StringBuilder, IFormatProvider)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_System_IFormatProvider_)
ATLFWriter.Create(Stream)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_Stream_)
ATLFWriter.Create(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_String_)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html

ATLFWriter.Create(TextWriter)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_TextWriter_)
ATLFWriter.Create(StringBuilder)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_)
ATLFWriter.Create(StringBuilder, IFormatProvider)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_System_IFormatProvider_)
ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)
ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)
ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)
ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)
ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)
ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)
ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)
ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)
ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)
ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)
Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFBWriter : ATLFWriter, IDisposable
```

Properties

Stream

Represents the stream associated with TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter).

Declaration

```
protected abstract TextWriter Stream { get; set; }
```

Property Value

ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html

Type	Description
TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter)	

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object.CB_Extension.CompareType(object, Type)
(System.Object.CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object.CB_Extension.CompareType(object, params Type[])
(System.Object.CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object.CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object.CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object.CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object.CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object.CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object.CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object.CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object.CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object.CB_Extension.CompareType<T>(object)
(System.Object.CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

(Cobilas.IO.Atlf.ATLFException.html)
ATLFNode
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

Class ATLFTextReader

This class allows you to read a string in ATLF format.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
↳ ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
↳ ATLFTextReader

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Inherited Members

ATLFReader.Create<T>(Stream) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_Stream_)
ATLFReader.Create<T>(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_String_)
ATLFReader.Create<T>(TextReader) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_IO_TextReader_)
ATLFReader.Create<T>(StringBuilder) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create__1_System_Text_StringBuilder_)
ATLFReader.Create(Stream) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_Stream_)
ATLFReader.Create(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_String_)
ATLFReader.Create(TextReader) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_IO_TextReader_)
ATLFReader.Create(StringBuilder) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Create_System_Text_StringBuilder_)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.Core.dll

Syntax

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

```
public class ATLFTextReader : ATLFTBReader, IDisposable, IEnumerable<ATLFNode>, IEnumerable
```

Properties

CloseFlow

This property is used to close the workflow automatically.

This property is used in cases where you directly access a stream. Example: when a flow is called using the File (https://learn.microsoft.com/dotnet/api/system.io.file).Open(string) method.

Declaration

```
protected override bool CloseFlow { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)

Closed

Indicates that the flow has ended.

Declaration

```
public override bool Closed { get; protected set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)

Encoding

Sets or returns the encoding used.

Declaration

ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

```
public override Encoding Encoding { get; set; }
```

Property Value

Type	Description
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	

Overrides

ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)

Indent

Determines whether text should be indented.

Declaration

```
public override bool Indent { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)

NodeCount

The number of ATLF nodes stored.

Declaration

```
public override long NodeCount { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Overrides

ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)

Nodes

Where ATLF nodes are stored.

- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

Declaration

```
protected override ATLFNode[] Nodes { get; set; }
```

Property Value

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)

RefObject

Sets or returns the current stream.

Declaration

```
protected override MarshalByRefObject RefObject { get; set; }
```

Property Value

Type	Description
MarshalByRefObject (https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject)	

Overrides

ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)

Stream

Represents the stream converted to TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter).

Declaration

```
protected override TextReader Stream { get; set; }
```

Property Value

Type	Description
TextReader (https://learn.microsoft.com/dotnet/api/system.io.textreader)	

Overrides

ATLFTBReader.Stream (Cobilas.IO.Atlf.ATLFTBReader.html#Cobilas_IO_Atlf_ATLFTBReader_Stream)

TargetVersion

- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html)
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.hi

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

Represents the version that the ATLF object is using.

Declaration

```
public override string TargetVersion { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)

Methods

Close()

Allows system to close the current flow.

Declaration

```
public override void Close()
```

Overrides

ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)

Dispose()

Allows system to dispose the current stream.

Declaration

```
public override void Dispose()
```

Overrides

ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)

Dispose(bool)

Performs an internal disposal of the object.

Declaration

ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.h
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~ATLFTextReader()

Declaration

```
protected ~ATLFTextReader()
```

GetATLFDecoding(string)

Gets the ATLF encoding

Declaration

```
protected override ATLFDecoding GetATLFDecoding(string targetVersion)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*targetVersion*	

Returns

Type	Description
ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)	The method returns the encoder corresponding to the version passed in the `targetVersion` parameter. If the previous version does not exist, the default version will be returned.

Overrides

ATLFReader.GetATLFDecoding(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetATLFDecoding_System_String_)

GetAllComments()

Gets all comments from the ATLF file.

Declaration

ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.h
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

```
public override ATLFNode[] GetAllComments()
```

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFReader.GetAllComments() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetAllComments)

GetEnumerator()

Gets all nodes within the buffer.

Declaration

```
public override IEnumerator<ATLFNode> GetEnumerator()
```

Returns

Type	Description
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)< ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)>	

Overrides

ATLFReader.GetEnumerator() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetEnumerator)

GetHeader()

Gets the ATLF header tags.

Declaration

```
public override ATLFNode[] GetHeader()
```

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFReader.GetHeader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetHeader)

GetTag(string)

ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html)
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html

Gets the value of the tag.

Declaration

```
public override string GetTag(string name)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	The name of the target tag.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFReader.GetTag(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTag_System_String_)

GetTagGroup(string)

Gets a group of ATLF tags within a path.

Declaration

```
public override ATLFNode[] GetTagGroup(string path)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*path*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html) []	Returns a list of ATLF tags according to a path. Example: there are three nodes with the name `com.cob.lib.tag1` , `com.cob.lib.tag2` and `com.cob.cli.tag-1` and passing in the `path` parameter `com.cob.lib` the tags `tag1` and `tag2` will be obtained.

Overrides

ATLFReader.GetTagGroup(string) (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_GetTagGroup_System_String_)

Reader()

Starts the process of reading the ATLF file.

ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.html
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

Declaration

```
public override void Reader()
```

Overrides

ATLFReader.Reader() (Cobilas.IO.Atlf.ATLFReader.html#Cobilas_IO_Atlf_ATLFReader_Reader)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- ATLFNode
  (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType
  (Cobilas.IO.Atlf.ATLFNodeType.html)
- ATLFReader
  (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader
  (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter
  (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader
  (Cobilas.IO.Atlf.ATLFStreamReader.html)
- ATLFStreamWriter
  (Cobilas.IO.Atlf.ATLFStreamWriter.html)
- ATLFTBReader
  (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter
  (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader
  (Cobilas.IO.Atlf.ATLFTextReader.html)
- ATLFTextWriter
  (Cobilas.IO.Atlf.ATLFTextWriter.html)
- ATLFWriter
  (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html

Class ATLFTextWriter

This class allows you to write a string in ATLF format.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
↳ ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
↳ ATLFTextWriter

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ATLFWriter.Create<T>(Stream) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_Stream_)
ATLFWriter.Create<T>(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_String_)
ATLFWriter.Create<T>(TextWriter) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_IO_TextWriter_)
ATLFWriter.Create<T>(StringBuilder) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_)
ATLFWriter.Create<T>(StringBuilder, IFormatProvider) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create__1_System_Text_StringBuilder_System_IFormatProvider_)
ATLFWriter.Create(Stream) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_Stream_)
ATLFWriter.Create(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_String_)
ATLFWriter.Create(TextWriter) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_IO_TextWriter_)
ATLFWriter.Create(StringBuilder) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_)
ATLFWriter.Create(StringBuilder, IFormatProvider) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Create_System_Text_StringBuilder_System_IFormatProvider_)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

Assembly: Cobilas.Core.dll

Syntax

```
public class ATLFTextWriter : ATLFTBWriter, IDisposable
```

Properties

CloseFlow

This property is used to close the workflow automatically.

This property should be used in cases where you directly access a stream. Example: when a flow is called using the File (https://learn.microsoft.com/dotnet/api/system.io.file).Open(string) method.

Declaration

```
protected override bool CloseFlow { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)

Closed

Indicate whether the flow has been closed.

Declaration

```
public override bool Closed { get; protected set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)

Encoding

(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

Sets or returns the encoding used.

Declaration

```
public override Encoding Encoding { get; set; }
```

Property Value

Type	Description
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	

Overrides

ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)

Indent

Determines whether text should be indented.

Declaration

```
public override bool Indent { get; set; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)

IndentChars

Represents the character of indentation.

Declaration

```
public override string IndentChars { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFWriter.IndentChars (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_IndentChars)

(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

NodeCount

The number of ATLF nodes stored.

Declaration

```
public override long NodeCount { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	Returns the number of nodes already written.

Overrides

ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)

Nodes

Where ATLF nodes are stored.

Declaration

```
protected override ATLFNode[] Nodes { get; set; }
```

Property Value

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)

RefObject

Sets or returns the current stream.

Declaration

```
protected override MarshalByRefObject RefObject { get; set; }
```

Property Value

Type	Description
MarshalByRefObject (https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject)	

Overrides

ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)

- ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)
- ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
- ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Stream

Represents the stream converted to TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter).

Declaration

```
protected override TextWriter Stream { get; set; }
```

Property Value

Type	Description
TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter)	

Overrides

ATLFTBWriter.Stream (Cobilas.IO.Atlf.ATLFTBWriter.html#Cobilas_IO_Atlf_ATLFTBWriter_Stream)

TargetVersion

Represents the version that the ATLF object is using.

Declaration

```
public override string TargetVersion { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	By default the value is string (https://learn.microsoft.com/dotnet/api/system.string).Empty which represents the current version.

Overrides

ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)

Methods

AddNode(string, string, ATLFNodeType)

Adds a new node to the buffer.

Declaration

```
protected override void AddNode(string name, string value, ATLFNodeType nodeType)
```

Parameters

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)	*nodeType*	

Overrides

ATLFWriter.AddNode(string, string, ATLFNodeType) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_AddNode_System_String_System_String_Cobilas_IO_Atlf_ATLFNodeType_)

Close()

Allows you to close the current flow.

Declaration

```
public override void Close()
```

Overrides

ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)

Dispose()

Allows you to discard the current stream.

Declaration

```
public override void Dispose()
```

Overrides

ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)

Dispose(bool)

Performs an internal disposal of the object.

Declaration

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

~ATLFTextWriter()

Declaration

```
protected ~ATLFTextWriter()
```

Flush()

When overridden in a derived class, clears all buffers for this stream and causes any buffered data to be written to the underlying device.

Declaration

```
public override void Flush()
```

Overrides

ATLFWriter.Flush() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_Flush)

GetATLFEncoding(string)

Gets the ATLF encoding.

Declaration

```
protected override ATLFEncoding GetATLFEncoding(string targetVersion)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*targetVersion*	

Returns

Type	Description
ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)	The method returns the encoder corresponding to the version passed in the `targetVersion` parameter. If the previous version does not exist, the default version will be returned.

Overrides

ATLFWriter.GetATLFEncoding(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_GetATLFEncoding_System_String_)

WriteComment(string)

Write a comment in the stream.

(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.h
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

Declaration

```
public override void WriteComment(string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	Write the message.

Overrides

ATLFWriter.WriteComment(string) (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteComment_System_String_)

WriteHeader()

Writes the atlf header to the stream.

Declaration

```
public override void WriteHeader()
```

Overrides

ATLFWriter.WriteHeader() (Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteHeader)

WriteIndentation()

Performs automatic indentation.

Declaration

```
protected void WriteIndentation()
```

WriteNode(string, string)

Writes an ATLF node to the stream.

Declaration

```
public override void WriteNode(string name, string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	

(Cobilas.IO.Atlf.ATLFNode.html)
ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization (Cobilas.IO.Serialization.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	

Overrides

ATLFWriter.WriteNode(string, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteNode_System_String_System_String_)

WriteWhitespace(int, string)

Writes an escape character to the stream.

Declaration

```
public override void WriteWhitespace(int count, string spacing)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*count*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*spacing*	

Overrides

ATLFWriter.WriteWhitespace(int, string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_Int32_System_String_)

WriteWhitespace(string)

Writes an escape character to the stream.

Declaration

```
public override void WriteWhitespace(string spacing)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*spacing*	

Overrides

ATLFWriter.WriteWhitespace(string)
(Cobilas.IO.Atlf.ATLFWriter.html#Cobilas_IO_Atlf_ATLFWriter_WriteWhitespace_System_String_)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

- ATLFNode
  (Cobilas.IO.Atlf.ATLFNode.html)
  - ATLFNodeType
    (Cobilas.IO.Atlf.ATLFNodeType.html)
  - ATLFReader
    (Cobilas.IO.Atlf.ATLFReader.html)
  - ATLFSBReader
    (Cobilas.IO.Atlf.ATLFSBReader.html)
  - ATLFSBWriter
    (Cobilas.IO.Atlf.ATLFSBWriter.html)
  - ATLFStreamReader
    (Cobilas.IO.Atlf.ATLFStreamReader.h
  - ATLFStreamWriter
    (Cobilas.IO.Atlf.ATLFStreamWriter.h
  - ATLFTBReader
    (Cobilas.IO.Atlf.ATLFTBReader.html)
  - ATLFTBWriter
    (Cobilas.IO.Atlf.ATLFTBWriter.html)
  - ATLFTextReader
    (Cobilas.IO.Atlf.ATLFTextReader.htm
  - ATLFTextWriter
    (Cobilas.IO.Atlf.ATLFTextWriter.html
  - ATLFWriter
    (Cobilas.IO.Atlf.ATLFWriter.html)
- **+ Cobilas.IO.Atlf.Components**
  (Cobilas.IO.Atlf.Components.ht
- **+ Cobilas.IO.Atlf.Text**
  (Cobilas.IO.Atlf.Text.html)
- **+ Cobilas.IO.Serialization.**
  Binary
  (Cobilas.IO.Serialization.Binary
- **+ Cobilas.IO.Serialization.Json**
  (Cobilas.IO.Serialization.Json.h
- **+ Cobilas.Numeric**
  (Cobilas.Numeric.html)
- **+ Cobilas.Numeric.Convert**
  (Cobilas.Numeric.Convert.html
- **+ Cobilas.Threading.Tasks**

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- ATLFNodeType
  (Cobilas.IO.Atlf.ATLFNodeType.html)
- ATLFReader
  (Cobilas.IO.Atlf.ATLFReader.html)
- ATLFSBReader
  (Cobilas.IO.Atlf.ATLFSBReader.html)
- ATLFSBWriter
  (Cobilas.IO.Atlf.ATLFSBWriter.html)
- ATLFStreamReader
  (Cobilas.IO.Atlf.ATLFStreamReader.h
- ATLFStreamWriter
  (Cobilas.IO.Atlf.ATLFStreamWriter.h
- ATLFTBReader
  (Cobilas.IO.Atlf.ATLFTBReader.html)
- ATLFTBWriter
  (Cobilas.IO.Atlf.ATLFTBWriter.html)
- ATLFTextReader
  (Cobilas.IO.Atlf.ATLFTextReader.htm
- ATLFTextWriter
  (Cobilas.IO.Atlf.ATLFTextWriter.html
- ATLFWriter
  (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Class ATLFWriter

Base class for ATLF writing classes.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFBase (Cobilas.IO.Atlf.ATLFBase.html)
↳ ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
↳ ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
↳ ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

ATLFBase.NodeCount (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_NodeCount)
ATLFBase.Indent (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Indent)
ATLFBase.Encoding (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Encoding)
ATLFBase.TargetVersion (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_TargetVersion)
ATLFBase.Closed (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Closed)
ATLFBase.CloseFlow (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_CloseFlow)
ATLFBase.Nodes (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Nodes)
ATLFBase.RefObject (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_RefObject)
ATLFBase.Close() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Close)
ATLFBase.Dispose() (Cobilas.IO.Atlf.ATLFBase.html#Cobilas_IO_Atlf_ATLFBase_Dispose)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html)

Assembly: Cobilas.IO.Atlf.dll

Syntax

```
public abstract class ATLFWriter : ATLFBase, IDisposable
```

Properties

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

IndentChars

Represents the character of indentation.

Declaration

```
public abstract string IndentChars { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

AddNode(string, string, ATLFNodeType)

Adds a new node to the buffer.

Declaration

```
public abstract void AddNode(string name, string value, ATLFNodeType nodeType)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)	*nodeType*	

Create(Stream)

Creates a new writer.

Declaration

```
public static ATLFWriter Create(Stream stream)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*stream*	

Returns

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks**

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

Type	Description
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)	

Create(TextWriter)

Declaration

```
public static ATLFWriter Create(TextWriter text)
```

Parameters

Type	Name	Description
TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter)	*text*	

Returns

Type	Description
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)	

Create(string)

Declaration

```
public static ATLFWriter Create(string filePath)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*filePath*	

Returns

Type	Description
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)	

Create(StringBuilder)

Declaration

```
public static ATLFWriter Create(StringBuilder text)
```

Parameters

Type	Name	Description
StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder)	*text*	

Returns

Type	Description
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)	

Create(StringBuilder, IFormatProvider)

Declaration

```
public static ATLFWriter Create(StringBuilder text, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder)	*text*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)	

Create<T>(Stream)

Declaration

```
public static T Create<T>(Stream stream) where T : ATLFSBWriter
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*stream*	

Returns

Type	Description
T	

Type Parameters

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Name	Description
T	

Create<T>(TextWriter)

Declaration

```
public static T Create<T>(TextWriter text) where T : ATLFTBWriter
```

Parameters

Type	Name	Description
TextWriter (https://learn.microsoft.com/dotnet/api/system.io.textwriter)	*text*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

Create<T>(string)

Declaration

```
public static T Create<T>(string filePath) where T : ATLFSBWriter
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*filePath*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks

Create<T>(StringBuilder)

Declaration

```
public static T Create<T>(StringBuilder text) where T : ATLFTBWriter
```

Parameters

Type	Name	Description
StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder)	*text*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

Create<T>(StringBuilder, IFormatProvider)

Declaration

```
public static T Create<T>(StringBuilder text, IFormatProvider formatProvider) where T : ATLF
TBWriter
```

Parameters

Type	Name	Description
StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder)	*text*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html)
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Flush()

When overridden in a derived class, clears all buffers for this stream and causes any buffered data to be written to the underlying device.

Declaration

```
public abstract void Flush()
```

GetATLFEncoding(string)

Gets the ATLF encoding.

Declaration

```
public abstract ATLFEncoding GetATLFEncoding(string targetVersion)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*targetVersion*	

Returns

Type	Description
ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)	The method returns the encoder corresponding to the version passed in the `targetVersion` parameter. If the previous version does not exist, the default version will be returned.

WriteComment(string)

Write a comment in the stream.

Declaration

```
public abstract void WriteComment(string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	Write the message.

WriteHeader()

Writes the atlf header in the stream.

ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader (Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader (Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter (Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader (Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter (Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader (Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter (Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader (Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter (Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter (Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Declaration

```
public abstract void WriteHeader()
```

WriteNode(string, string)

Writes an ATLF node to the stream.

Declaration

```
public abstract void WriteNode(string name, string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	

WriteWhitespace(int, string)

Writes an escape character to the stream.

Declaration

```
public abstract void WriteWhitespace(int count, string value)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*count*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	

WriteWhitespace(string)

Writes an escape character to the stream.

Declaration

```
public abstract void WriteWhitespace(string value)
```

Parameters

ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)
ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)
ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)
ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)
ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.h
ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.h
ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)
ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)
ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.htm
ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html
ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

ATLFNodeType
(Cobilas.IO.Atlf.ATLFNodeType.html)

ATLFReader
(Cobilas.IO.Atlf.ATLFReader.html)

ATLFSBReader
(Cobilas.IO.Atlf.ATLFSBReader.html)

ATLFSBWriter
(Cobilas.IO.Atlf.ATLFSBWriter.html)

ATLFStreamReader
(Cobilas.IO.Atlf.ATLFStreamReader.html)

ATLFStreamWriter
(Cobilas.IO.Atlf.ATLFStreamWriter.html)

ATLFTBReader
(Cobilas.IO.Atlf.ATLFTBReader.html)

ATLFTBWriter
(Cobilas.IO.Atlf.ATLFTBWriter.html)

ATLFTextReader
(Cobilas.IO.Atlf.ATLFTextReader.html)

ATLFTextWriter
(Cobilas.IO.Atlf.ATLFTextWriter.html)

ATLFWriter
(Cobilas.IO.Atlf.ATLFWriter.html)

Extension Methods

Object CB_Extension.CompareType(object, Type)
(System.Object CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object CB_Extension.CompareType(object, params Type[])
(System.Object CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

Object CB_Extension.CompareType<T>(object)
(System.Object CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

Namespace Cobilas.IO.Atlf.Components

Classes

Filter by title

(Cobilas.Collections.html)

CharacterCursor (Cobilas.IO.Atlf.Components.CharacterCursor.html)

Allows you to read and modify a string of characters.

Structs

CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.CharacterCursor.LineEndColumn.html)

Represents the current column, row and index of the reading cursor.

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

CharacterCursor (Cobilas.IO.Atlf.Components.Charac

CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection

Class CharacterCursor

Allows you to read and modify a string of characters.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)

↳ CharacterCursor

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: Cobilas.Collections.Generic (Cobilas.Collections.Generic.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Components (Cobilas.IO.Atlf.Components.html)

Assembly: Cobilas.Core.dll

Syntax

```
public sealed class CharacterCursor : IDisposable
```

Constructors

CharacterCursor(byte[], Encoding)

Declaration

```
public CharacterCursor(byte[] bytes, Encoding encoding)
```

Parameters

Type	Name	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)[]	*bytes*	
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	

CharacterCursor(char[])

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
- Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
  CharacterCursor (Cobilas.IO.Atlf.Components.Charac
  CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Declaration

```
public CharacterCursor(char[] characters)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)[]	*characters*	

CharacterCursor(string)

Declaration

```
public CharacterCursor(string text)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	

CharacterCursor(StringBuilder)

Declaration

```
public CharacterCursor(StringBuilder text)
```

Parameters

Type	Name	Description
StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder)	*text*	

Properties

LineEndColumn

Returns the current reading cursor column.

Declaration

```
public long LineEndColumn { get; }
```

Property Value

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
- Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
  - CharacterCursor (Cobilas.IO.Atlf.Components.Charac
  - CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Count

Returns the length of the string.

Declaration

```
public long Count { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

CurrentCharacter

Returns the current character.

Declaration

```
public char CurrentCharacter { get; }
```

Property Value

Type	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	

Cursor

Returns a tuple containing the row, column, and index of the string being read.

Declaration

```
public CharacterCursor.LineEndColumn Cursor { get; }
```

Property Value

Type	Description
CharacterCursor (Cobilas.IO.Atlf.Components.CharacterCursor.html).LineEndColumn (Cobilas.IO.Atlf.Components.CharacterCursor.LineEndColumn.html)	

Index

Returns the current index of the string being read.

Declaration

```
public long Index { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

this[long]

Declaration

```
public char this[long index] { get; }
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Property Value

Type	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	

Line

Returns the current line of the reading cursor.

Declaration

```
public long Line { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Methods

AddEscape(char)

Add escape character.

Declaration

```
public void AddEscape(char escape)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*escape*	

CharIsEqualToIndex(char)

Compare a character with the current character.

Declaration

```
public bool CharIsEqualToIndex(char character)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*character*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

CharIsEqualToIndex(params char[])

Compare a character with the current character.

Declaration

```
public bool CharIsEqualToIndex(params char[] characters)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)[]	*characters*	

Returns

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.htm
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
- Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.htm
  - CharacterCursor (Cobilas.IO.Atlf.Components.Charac
  - CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htm
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

CharIsEqualToIndex(string)

Compare a character with the current character.

Declaration

```
public bool CharIsEqualToIndex(string text)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

CharIsEqualToIndex(params string[])

Compare a character with the current character.

Declaration

```
public bool CharIsEqualToIndex(params string[] texts)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)[]	*texts*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

Declaration

```
public void Dispose()
```

MoveToCharacter()

Move the reading cursor to the next character.

Declaration

```
public bool MoveToCharacter()
```

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	The method will return true whenever there are characters to read.

MoveToCharacter(long)

Move the reading cursor to the next character.

Declaration

```
public bool MoveToCharacter(long index)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	How many jumps the cursor must make to move to the next character.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	The method will return true whenever there are characters to read.

Reset()

Reset the position of the index, line and column of the reading course.

Declaration

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
- Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
  CharacterCursor (Cobilas.IO.Atlf.Components.Charac
  CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

```
public void Reset()
```

SliceText(long, long)

Allows you to make a cut in the character string.

Declaration

```
public string SliceText(long index, long count)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	The index that will start the clipping.
long (https://learn.microsoft.com/dotnet/api/system.int64)	*count*	The number of characters that will be cut.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	The method will return a string containing the string of characters that were cut.

ToString()

Returns a string that represents the current object.

Declaration

```
public override string ToString()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	A string that represents the current object.

Overrides

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **(Cobilas.Collections.html)**
- **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
  - CharacterCursor (Cobilas.IO.Atlf.Components.Charac
  - CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
- **System (System.html)**
- **System.Collections.Generic (System.Collections.Generic.ht**
- **System.IO (System.IO.html)**
- **System.Reflection (System.Reflection.html)**
- **System.Security.Cryptography**

Struct CharacterCursor.LineEndColumn

Represents the current column, row and index of the reading cursor.

Filter by title

Inherited Members

ValueType.Equals(object) (https://learn.microsoft.com/dotnet/api/system.valuetype.equals)
ValueType.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.valuetype.gethashcode)
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,system-object))
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Components (Cobilas.IO.Atlf.Components.html)
Assembly: Cobilas.Core.dll

Syntax

```
public readonly struct CharacterCursor.LineEndColumn
```

Constructors

LineEndColumn(long, long, long)

Declaration

```
public LineEndColumn(long line, long column, long index)
```

Parameters

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*line*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*column*	
long (https://learn.microsoft.com/dotnet/api/system.int64)	*index*	

Properties

Column

Returns the column where the reading cursor is.

Declaration

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
- Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
  - CharacterCursor (Cobilas.IO.Atlf.Components.Charac
  - CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

```
public long Column { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Default

Default value.(L:1, C:1, I:0)

Declaration

```
public static CharacterCursor.LineEndColumn Default { get; }
```

Property Value

Type	Description
CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.CharacterCursor.LineEndColumn.html)	

Index

Returns the index of where the reading cursor is.

Declaration

```
public long Index { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Line

Returns the line where the reading cursor is.

Declaration

```
public long Line { get; }
```

Property Value

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

Methods

ToString()

Returns the fully qualified type name of this instance.

Declaration

```
public override string ToString()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	The fully qualified type name.

Overrides

ValueType.ToString() (https://learn.microsoft.com/dotnet/api/system.valuetype.tostring)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

(Cobilas.Collections.html)

+ **Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht**

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**

- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

  CharacterCursor (Cobilas.IO.Atlf.Components.Charac
  CharacterCursor.LineEndColumn (Cobilas.IO.Atlf.Components.Charac

+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

+ **Cobilas.Numeric (Cobilas.Numeric.html)**

+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**

+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

+ **System (System.html)**

+ **System.Collections.Generic (System.Collections.Generic.ht**

+ **System.IO (System.IO.html)**

+ **System.Reflection (System.Reflection.html)**

+ **System.Security.Cryptography**

Namespace Cobilas.IO.Atlf.Text

Classes

Filter by title

ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)

Decoding base class.

ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)

Encoding base class.

ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Decoding.html)

This class allows decoding a string in ATLF format in version `1.0`

ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoding.html)

This class allows encoding a string in ATLF format in version 1.0

EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsCollection.html)

Represents a collection of ATLF encoding and decoding.

NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecoding.html)

This class is a null representation of an ATLF decoder.

NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncoding.html)

This class is a null representation of an ATLF encoder.

+ **Cobilas.Collections.Generic (Cobilas.Collections.Generic.html)**
+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Decoding.html)
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoding.html)
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsCollection.html)
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecoding.html)
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncoding.html)
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.html)**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.html)**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic**

Class ATLFDecoding

Decoding base class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFDecoding
↳ ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Decoding.html)
↳ NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecoding.html)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system.object,system.object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Text (Cobilas.IO.Atlf.Text.html)

Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFDecoding
```

Fields

Null

Represents a null value of type NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecoding.html).

Declaration

```
public static readonly ATLFDecoding Null
```

Field Value

Type	Description
ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)	

Properties

Version

Represents the decoder version.

Declaration

```
public abstract string Version { get; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

Reader(params object[])

Read a list of objects.

Declaration

```
public abstract ATLFNode[] Reader(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Reader4Byte(params object[])

Read a list of objects.

Declaration

```
public abstract ATLFNode[] Reader4Byte(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

ValidCharacter(char)

Checks whether the character is valid.

Declaration

```
protected abstract bool ValidCharacter(char c)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*c*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
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  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
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+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.Syst**

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

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  ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
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  NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
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+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

+ **Cobilas.Numeric (Cobilas.Numeric.html)**

+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**

+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

+ **System (System.html)**

+ **System.Collections.Generic (System.Collections.Generic.ht**

Class ATLFEncoding

Encoding base class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ ATLFEncoding

↳ ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoding.html)

↳ NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncoding.html)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Text (Cobilas.IO.Atlf.Text.html)

Assembly: Cobilas.Core.dll

Syntax

```
public abstract class ATLFEncoding
```

Fields

Null

Represents a null value of type NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncoding.html).

Declaration

```
public static readonly ATLFEncoding Null
```

Field Value

Type	Description
ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)	

Properties

Version

Represents the encoder version.

Declaration

```
public abstract string Version { get; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

Writer(params object[])

Writes a list of objects.

Declaration

```
public abstract string Writer(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Writer4Byte(params object[])

Writes a list of objects.

Declaration

```
public abstract byte[] Writer4Byte(params object[] args)
```


+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encod
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htm
+ System.IO (System.IO.html)

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

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

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Decoi
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.htı**
+ **System.IO (System.IO.html)**

Class ATLFVS10Decoding

This class allows decoding a string in ATLF format in version `1.0`

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)
↳ ATLFVS10Decoding

Inherited Members

ATLFDecoding.Null (Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Null)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Text (Cobilas.IO.Atlf.Text.html)

Assembly: Cobilas.Core.dll

Syntax

```
public class ATLFVS10Decoding : ATLFDecoding
```

Properties

Version

Represents the decoder version.

Declaration

```
public static string Version { get; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)
  ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)
  ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Decoding.html)
  ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoding.html)
  EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsCollection.html)
  NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecoding.html)
  NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncoding.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.html)
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.html)
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.html)
+ System.IO (System.IO.html)

Overrides

ATLFDecoding.Version (Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Version)

Methods

GetComment(CharacterCursor)

Declaration

```
protected virtual ATLFNode GetComment(CharacterCursor cursor)
```

Parameters

Type	Name	Description
CharacterCursor (Cobilas.IO.Atlf.Components.CharacterCursor.html)	*cursor*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)	

GetTag(CharacterCursor)

Declaration

```
protected virtual ATLFNode GetTag(CharacterCursor cursor)
```

Parameters

Type	Name	Description
CharacterCursor (Cobilas.IO.Atlf.Components.CharacterCursor.html)	*cursor*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)	

GetTag(CharacterCursor, ATLFNodeType)

Declaration

```
protected virtual ATLFNode GetTag(CharacterCursor cursor, ATLFNodeType nodeType)
```


Decoding

- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
- **System (System.html)**
- **System.Collections.Generic (System.Collections.Generic.htı**
- **System.IO (System.IO.html)**

Parameters

Type	Name	Description
CharacterCursor (Cobilas.IO.Atlf.Components.CharacterCursor.html)	*cursor*	
ATLFNodeType (Cobilas.IO.Atlf.ATLFNodeType.html)	*nodeType*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)	

Reader(CharacterCursor)

Declaration

```
protected virtual ATLFNode[] Reader(CharacterCursor cursor)
```

Parameters

Type	Name	Description
CharacterCursor (Cobilas.IO.Atlf.Components.CharacterCursor.html)	*cursor*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Reader(params object[])

Declaration

```
protected override ATLFNode[] Reader(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	args[0] = string (https://learn.microsoft.com/dotnet/api/system.string)

Returns

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encod
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFDecoding.Reader(params object[])
(Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Reader_System_Object___)

Reader4Byte(params object[])

Read a list of objects.

Declaration

```
public override ATLFNode[] Reader4Byte(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object) []	*args*	args[0] = byte (https://learn.microsoft.com/dotnet/api/system.byte) [] args[1] = Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFDecoding.Reader4Byte(params object[])
(Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Reader4Byte_System_Object___)

ValidCharacter(char)

Checks whether the character is valid.

Declaration

```
protected override bool ValidCharacter(char c)
```

Parameters

+ Cobilas.IO.Atlf.html (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.l
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*c*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFDecoding.ValidCharacter(char)
(Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_ValidCharacter_System_Char_)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

Class ATLFVS10Encoding

This class allows encoding a string in ATLF format in version 1.0

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)

↳ ATLFVS10Encoding

Inherited Members

ATLFEncoding.Null (Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Null)

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Text (Cobilas.IO.Atlf.Text.html)

Assembly: Cobilas.Core.dll

Syntax

```
public class ATLFVS10Encoding : ATLFEncoding
```

Properties

Version

Represents the encoder version.

Declaration

```
public static string Version { get; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

(Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components

(Cobilas.IO.Atlf.Components.ht

Cobilas.IO.Atlf.Text

(Cobilas.IO.Atlf.Text.html)

ATLFDecoding

(Cobilas.IO.Atlf.Text.ATLFDecoding.l

ATLFEncoding

(Cobilas.IO.Atlf.Text.ATLFEncoding.h

ATLFVS10Decoding

(Cobilas.IO.Atlf.Text.ATLFVS10Deco

ATLFVS10Encoding

(Cobilas.IO.Atlf.Text.ATLFVS10Encod

EncodingsCollection

(Cobilas.IO.Atlf.Text.EncodingsColle

NullATLFDecoding

(Cobilas.IO.Atlf.Text.NullATLFDecod

NullATLFEncoding

(Cobilas.IO.Atlf.Text.NullATLFEncodi

+ Cobilas.IO.Serialization.

Binary

(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json

(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric

(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert

(Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks

(Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic

(System.Collections.Generic.ht

+ System.IO (System.IO.html)

Overrides

ATLFEncoding.Version (Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Version)

Methods

Writer(ATLFNode[])

Decoding.

```
protected virtual string Writer(ATLFNode[] nodes)
```

Parameters

Type	Name	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	*nodes*	

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Writer(params object[])

Writer a list of objects.

Decoding.

```
public override string Writer(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	args[0] = ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFEncoding.Writer(params object[]) (Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Writer_System_Object___)

- Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
- Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
- Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
- Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
- Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
- System.Collections.Generic (System.Collections.Generic.htı
- System.IO (System.IO.html)

Writer4Byte(params object[])

Writes a list of objects.

Declaration

```
public override byte[] Writer4Byte(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	args[0] = ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[] args[1] = Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)

Returns

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

Overrides

ATLFEncoding.Writer4Byte(params object[]) (Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Writer4Byte_System_Object___)

Extension Methods

Object_CB_Extension.CompareType(object, Type) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[]) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

Object_CB_Extension.CompareType<T>(object) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h

ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h

ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco

ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc

EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle

NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod

NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

(Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

  ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.I
  ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

Class EncodingsCollection

Represents a collection of ATLF encoding and decoding.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ EncodingsCollection

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Text (Cobilas.IO.Atlf.Text.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class EncodingsCollection
```

Methods

ContainsDecoding(string)

Checks whether a certain version of the ATLF decoder exists.

Declaration

```
public static bool ContainsDecoding(string version)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

ContainsEncoding(string)

Checks whether a given version of the ATLF encoder exists.

Declaration

```
public static bool ContainsEncoding(string version)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

GetDecoding(string)

Gets a specific version of the ATLF decoder.

Declaration

```
public static ATLFDecoding GetDecoding(string version)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	

Returns

Type	Description
ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)	

GetDecodingVersionList()

Gets a list of ATLF decoder versions.

Declaration

+ Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)

```
public static string[] GetDecodingVersionList()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)[]	

GetEncoding(string)

Gets a specific version of the ATLF encoder.

Declaration

```
public static ATLFEncoding GetEncoding(string version)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	

Returns

Type	Description
ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)	

GetEncodingVersionList()

Gets a list of ATLF encoder versions.

Declaration

```
public static string[] GetEncodingVersionList()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)[]	

(Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h

ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h

ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco

ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encod

EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle

NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod

NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

Class NullATLFDecoding

This class is a null representation of an ATLF decoder.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)

↳ NullATLFDecoding

Implements

INullObject (Cobilas.NullObject.html)

Inherited Members

ATLFDecoding.Null (Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Null)

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Text (Cobilas.IO.Atlf.Text.html)

Assembly: Cobilas.Core.dll

Syntax

```
public sealed class NullATLFDecoding : ATLFDecoding, INullObject
```

Properties

Version

Represents the decoder version.

Declaration

```
public override string Version { get; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFDecoding.Version (Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Version)

Methods

Reader(params object[])

Read a list of objects.

Declaration

```
public override ATLFNode[] Reader(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

Overrides

ATLFDecoding.Reader(params object[]) (Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Reader_System_Object___)

Reader4Byte(params object[])

Read a list of objects.

Declaration

```
public override ATLFNode[] Reader4Byte(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

Type	Description
ATLFNode (Cobilas.IO.Atlf.ATLFNode.html)[]	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.l
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)

Overrides

ATLFDecoding.Reader4Byte(params object[])
(Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_Reader4Byte_System_Object___)

ValidCharacter(char)

Checks whether the character is valid.

Declaration

```
public static bool ValidCharacter(char c)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*c*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

ATLFDecoding.ValidCharacter(char)
(Cobilas.IO.Atlf.Text.ATLFDecoding.html#Cobilas_IO_Atlf_Text_ATLFDecoding_ValidCharacter_System_Char_)

Implements

INullObject (Cobilas.INullObject.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.html)

- Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

ATLFDecoding
(Cobilas.IO.Atlf.Text.ATLFDecoding.h
ATLFEncoding
(Cobilas.IO.Atlf.Text.ATLFEncoding.h
ATLFVS10Decoding
(Cobilas.IO.Atlf.Text.ATLFVS10Deco
ATLFVS10Encoding
(Cobilas.IO.Atlf.Text.ATLFVS10Encod
EncodingsCollection
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NullATLFEncoding
(Cobilas.IO.Atlf.Text.NullATLFEncodi

+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic
(System.Collections.Generic.htl

+ System.IO (System.IO.html)

Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

(Cobilas.IO.Atlf.html)

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**

  ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.I
  ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

+ **Cobilas.Numeric (Cobilas.Numeric.html)**

+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**

+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

+ **System (System.html)**

+ **System.Collections.Generic (System.Collections.Generic.ht**

+ **System.IO (System.IO.html)**

Class NullATLFEncoding

This class is a null representation of an ATLF encoder.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)
↳ NullATLFEncoding

Implements

INullObject (Cobilas.NullObject.html)

Inherited Members

ATLFEncoding.Null (Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Null)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Atlf (Cobilas.IO.Atlf.html).Text (Cobilas.IO.Atlf.Text.html)

Assembly: Cobilas.Core.dll

Syntax

```
public sealed class NullATLFEncoding : ATLFEncoding, INullObject
```

Properties

Version

Represents the encoder version.

Declaration

```
public override string Version { get; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.h
ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)

Overrides

ATLFEncoding.Version (Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Version)

Methods

Writer(params object[])

Writes a list of objects.

Declaration

```
public override string Writer(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

ATLFEncoding.Writer(params object[])
(Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Writer_System_Object___)

Writer4Byte(params object[])

Writes a list of objects.

Declaration

```
public override byte[] Writer4Byte(params object[] args)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)[]	*args*	

Returns

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

+ Cobilas.IO.Atlf.Object (Cobilas.IO.Atlf.Object.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.l
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.h
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Deco
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoc
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsColle
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecod
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncodi
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)

Overrides

ATLFEncoding.Writer4Byte(params object[])
(Cobilas.IO.Atlf.Text.ATLFEncoding.html#Cobilas_IO_Atlf_Text_ATLFEncoding_Writer4Byte_System_Object___)

Implements

INullObject (Cobilas.INullObject.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
  - ATLFDecoding (Cobilas.IO.Atlf.Text.ATLFDecoding.html)
  - ATLFEncoding (Cobilas.IO.Atlf.Text.ATLFEncoding.html)
  - ATLFVS10Decoding (Cobilas.IO.Atlf.Text.ATLFVS10Decoding.html)
  - ATLFVS10Encoding (Cobilas.IO.Atlf.Text.ATLFVS10Encoding.html)
  - EncodingsCollection (Cobilas.IO.Atlf.Text.EncodingsCollection.html)
  - NullATLFDecoding (Cobilas.IO.Atlf.Text.NullATLFDecoding.html)
  - NullATLFEncoding (Cobilas.IO.Atlf.Text.NullATLFEncoding.html)
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.html)**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.html)**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
- **System (System.html)**
- **System.Collections.Generic (System.Collections.Generic.html)**
- **System.IO (System.IO.html)**

Namespace Cobilas.IO.Serialization.Binary

Classes

Filter by title

(Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)

- Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary

ScratchObject
(Cobilas.IO.Serialization.Binary.Scra

+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric
(Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic
(System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection
(System.Reflection.html)

+ System.Security.
Cryptography
(System.Security.Cryptogra

ScratchObject (Cobilas.IO.Serialization.Binary.ScratchObject.html)

Base sketch object.

Class ScratchObject

Base sketch object.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ ScratchObject

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Serialization (Cobilas.IO.Serialization.html).Binary (Cobilas.IO.Serialization.Binary.html)

Assembly: Cobilas.Core.dll

Syntax

```
[Serializable]
[Obsolete("BinaryFormatter serialization is obsolete and should not be used. See https://aka.ms/binaryformatter for more information. Use Json class", true, DiagnosticId = "SYSLIB0011")]
public abstract class ScratchObject
```

Properties

Name

Draft Name.

Declaration

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

Property Value

+ Cobilas.Collections.Generic (Cobilas.Collections.html)
+ Cobilas.Collections.Generic.ht (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.h
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
- Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
  - ScratchObject (Cobilas.IO.Serialization.Binary.Scra
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptogra

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

LoadScratchObject(string)

Loads an object ScratchObject (Cobilas.IO.Serialization.Binary.ScratchObject.html) from a file.

Declaration

```
public static ScratchObject LoadScratchObject(string filePath)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*filePath*	File path.

Returns

Type	Description
ScratchObject (Cobilas.IO.Serialization.Binary.ScratchObject.html)	

UnloadScratchObject(ScratchObject, string)

Downloads draft object to a file.

Declaration

```
public static void UnloadScratchObject(ScratchObject scratch, string filePath)
```

Parameters

Type	Name	Description
ScratchObject (Cobilas.IO.Serialization.Binary.ScratchObject.html)	*scratch*	Scratch object.
string (https://learn.microsoft.com/dotnet/api/system.string)	*filePath*	Path of the file where the object will be downloaded.

UnloadScratchObject(ScratchObject, string, string)

Downloads draft object to a file.

Declaration

```
public static void UnloadScratchObject(ScratchObject scratch, string folderPath, string exte
nsion = "sobj")
```

Parameters

Type	Name	Description
ScratchObject (Cobilas.IO.Serialization.Binary.ScratchObject.html)	*scratch*	Scratch object.
string (https://learn.microsoft.com/dotnet/api/system.string)	*folderPath*	Path of the directory where the file will be created.
string (https://learn.microsoft.com/dotnet/api/system.string)	*extension*	File extension.

UnloadScratchObject(ScratchObject, string, string, string)

Downloads draft object to a file.

Declaration

```
public static void UnloadScratchObject(ScratchObject scratch, string folderPath, string nam
e, string extension = "sobj")
```

Parameters

Type	Name	Description
ScratchObject (Cobilas.IO.Serialization.Binary.ScratchObject.html)	*scratch*	Scratch object.
string (https://learn.microsoft.com/dotnet/api/system.string)	*folderPath*	Path of the directory where the file will be created.
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	File name.
string (https://learn.microsoft.com/dotnet/api/system.string)	*extension*	File extension.

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

- Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

ScratchObject (Cobilas.IO.Serialization.Binary.Scra

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptography

Namespace Cobilas.IO.Serialization.Json

Classes

Filter by title

Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)

Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

  Json (Cobilas.IO.Serialization.Json.Json.h

  JsonContractResolver (Cobilas.IO.Serialization.Json.JsonC

Cobilas.Numeric (Cobilas.Numeric.html)

Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

System (System.html)

System.Collections.Generic (System.Collections.Generic.htı

System.IO (System.IO.html)

System.Reflection (System.Reflection.html)

System.Security.Cryptography

Classes

Json (Cobilas.IO.Serialization.Json.Json.html)

Cobilas.Serialization and deserving C# for json support.

JsonContractResolver (Cobilas.IO.Serialization.Json.JsonContractResolver.html)

Used by Newtonsoft.Json.JsonSerializer to resolve a Newtonsoft.Json.Serialization.JsonContract for a given Type (https://learn.microsoft.com/dotnet/api/system.type).

Class Json

This class of serialization and deserving C# for json support.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)

Json

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Serialization (Cobilas.IO.Serialization.html).Json (Cobilas.IO.Serialization.Json.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class Json
```

Methods

Deserialize(string)

Deserializes the JSON to a .NET object using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static object Deserialize(string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	The JSON to deserialize.

Returns

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	By default, the return value is NullObject (Cobilas.NullObject.html) when the return value is null. When the `typeObject` parameter is null, the method returns Newtonsoft.Json.Linq.JObject.

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

- Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

Json (Cobilas.IO.Serialization.Json.Json.h

JsonContractResolver (Cobilas.IO.Serialization.Json.JsonC

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography

Deserialize(string, JsonSerializerSettings?)

Deserializes the JSON to a .NET object using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static object Deserialize(string value, JsonSerializerSettings? settings)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	The JSON to deserialize.
JsonSerializerSettings	*settings*	The Newtonsoft.Json.JsonSerializerSettings used to deserialize the object. If this is null, default serialization settings will be used.

Returns

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	By default, the return value is NullObject (Cobilas.NullObject.html) when the return value is null. When the `typeObject` parameter is null, the method returns Newtonsoft.Json.Linq.JObject.

Deserialize(string, Type?)

Deserializes the JSON to a .NET object using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static object Deserialize(string value, Type? typeObject)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	The JSON to deserialize.

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*typeObject*	The type of json value that will be deserialized.

Returns

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	By default, the return value is NullObject (Cobilas.NullObject.html) when the return value is null. When the `typeObject` parameter is null, the method returns Newtonsoft.Json.Linq.JObject.

Deserialize(string, Type?, JsonSerializerSettings?)

Deserializes the JSON to a .NET object using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static object Deserialize(string value, Type? typeObject, JsonSerializerSettings? settings)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	The JSON to deserialize.
Type (https://learn.microsoft.com/dotnet/api/system.type)	*typeObject*	The type of json value that will be deserialized.
JsonSerializerSettings	*settings*	The Newtonsoft.Json.JsonSerializerSettings used to deserialize the object. If this is null, default serialization settings will be used.

Returns

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	By default, the return value is NullObject (Cobilas.NullObject.html) when the return value is null. When the `typeObject` parameter is null, the method returns Newtonsoft.Json.Linq.JObject.

Deserialize<T>(string)

Deserializes the JSON to a .NET object using Newtonsoft.Json.JsonSerializerSettings.

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.html)
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.html)
  Cobilas.IO.Serialization.Json.Json
  Cobilas.IO.Serialization.Json.JsonContractResolver
  Cobilas.IO.Serialization.Json.JsonC
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Declaration

```
public static T? Deserialize<T>(string value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	The JSON to deserialize.

Returns

Type	Description
T	By default, the return value is NullObject (Cobilas.NullObject.html) when the return value is null. When the `typeObject` parameter is null, the method returns Newtonsoft.Json.Linq.JObject.

Type Parameters

Name	Description
T	The type of json value that will be deserialized.

Deserialize<T>(string, JsonSerializerSettings)

Deserializes the JSON to a .NET object using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static T? Deserialize<T>(string value, JsonSerializerSettings settings)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*value*	The JSON to deserialize.
JsonSerializerSettings	*settings*	The Newtonsoft.Json.JsonSerializerSettings used to deserialize the object. If this is null, default serialization settings will be used.

Returns

Type	Description
T	By default, the return value is NullObject (Cobilas.NullObject.html) when the return value is null. When the `typeObject` parameter is null, the method returns Newtonsoft.Json.Linq.JObject.

Type Parameters

+ Cobilas.Collections.Generic (Cobilas.Collections.html)
+ Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
- Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
  - Json (Cobilas.IO.Serialization.Json.Json.h
  - JsonContractResolver (Cobilas.IO.Serialization.Json.JsonC
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Name	Description
T	The type of json value that will be deserialized.

Serialize(object)

Serializes the specified object to a JSON string using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static string Serialize(object value)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to serialize.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	Returns the string conversion of the object that was passed.

Serialize(object, JsonSerializerSettings)

Serializes the specified object to a JSON string using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static string Serialize(object value, JsonSerializerSettings settings)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to serialize.
JsonSerializerSettings	*settings*	The Newtonsoft.Json.JsonSerializerSettings used to serialize the object. If this is null, default serialization settings will be used.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	Returns the string conversion of the object that was passed.

Serialize(object, bool)

Serializes the specified object to a JSON string using Newtonsoft.Json.JsonSerializerSettings.

Declaration

```
public static string Serialize(object value, bool Indented)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The object to serialize.
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*Indented*	This parameter allows you to format the json file.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	Returns the string conversion of the object that was passed.

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
- Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
  Json (Cobilas.IO.Serialization.Json.Json.h
  JsonContractResolver (Cobilas.IO.Serialization.Json.JsonC
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Class JsonContractResolver

Used by Newtonsoft.Json.JsonSerializer to resolve a Newtonsoft.Json.Serialization.JsonContract for a given Type (https://learn.microsoft.com/dotnet/api/system.type).

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ DefaultContractResolver
↳ JsonContractResolver

Implements

IContractResolver

Inherited Members

DefaultContractResolver.ResolveContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.GetSerializableMembers(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateObjectContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateConstructorParameters(ConstructorInfo, JsonPropertyCollection) (https://learn.microsoft.com/dotnet/api/system.reflection.constructorinfo)
DefaultContractResolver.CreatePropertyFromConstructorParameter(JsonProperty, ParameterInfo) (https://learn.microsoft.com/dotnet/api/system.reflection.parameterinfo)
DefaultContractResolver.ResolveContractConverter(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateDictionaryContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateArrayContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreatePrimitiveContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateLinqContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateISerializableContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateDynamicContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateStringContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateContract(Type) (https://learn.microsoft.com/dotnet/api/system.type)
DefaultContractResolver.CreateMemberValueProvider(MemberInfo) (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo)
DefaultContractResolver.CreateProperty(MemberInfo, MemberSerialization) (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo)
DefaultContractResolver.ResolvePropertyName(string) (https://learn.microsoft.com/dotnet/api/system.string)
DefaultContractResolver.ResolveExtensionDataName(string) (https://learn.microsoft.com/dotnet/api/system.string)
DefaultContractResolver.ResolveDictionaryKey(string) (https://learn.microsoft.com/dotnet/api/system.string)
DefaultContractResolver.GetResolvedPropertyName(string) (https://learn.microsoft.com/dotnet/api/system.string)
DefaultContractResolver.DynamicCodeGeneration
DefaultContractResolver.DefaultMembersSearchFlags
DefaultContractResolver.SerializeCompilerGeneratedMembers
DefaultContractResolver.IgnoreSerializableInterface
DefaultContractResolver.IgnoreSerializableAttribute
DefaultContractResolver.IgnoreIsSpecifiedMembers
DefaultContractResolver.IgnoreShouldSerializeMembers
DefaultContractResolver.NamingStrategy

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).IO (Cobilas.IO.html).Serialization (Cobilas.IO.Serialization.html).Json (Cobilas.IO.Serialization.Json.html)

Assembly: CobilasCore.dll

Syntax

```
public class JsonContractResolver : DefaultContractResolver, IContractResolver
```

Methods

CreateProperties(Type, MemberSerialization)

Creates properties for the given Newtonsoft.Json.Serialization.JsonContract.

Declaration

```
protected override IList<JsonProperty> CreateProperties(Type type, MemberSerialization membe
rSerialization)
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	The type to create properties for.
MemberSerialization	*memberSerialization*	The member serialization mode for the type.

Returns

Type	Description
IList (https://learn.microsoft.com/dotnet/api/system.collections.generic.ilist-1) <JsonProperty>	Properties for the given Newtonsoft.Json.Serialization.JsonContract.

Overrides

DefaultContractResolver.CreateProperties(Type, MemberSerialization) (https://learn.microsoft.com/dotnet/api/system.type)

Implements

Newtonsoft.Json.Serialization.IContractResolver

Extension Methods

Object_CB_Extension.CompareType(object, Type) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[]) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)

Object_CB_Extension.CompareType<T>(object) (System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.Collections.Generic (Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

- Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

- Cobilas.IO.Serialization.Json.Json.h
- JsonContractResolver (Cobilas.IO.Serialization.Json.JsonC

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography

Namespace Cobilas.Numeric

Classes

Filter by title

BasicCalculation (Cobilas.Numeric.BasicCalculation.html)

Basic functions of mathematical operations.

CalculationsCollection (Cobilas.Numeric.CalculationsCollection.html)

Base class used to store calculation and calculation overwriting functions.

ParseCalculation (Cobilas.Numeric.ParseCalculation.html)

Performs all parse operations.

Structs

MathOperator (Cobilas.Numeric.MathOperator.html)

It represents the mathematical signal and performs its mathematical operation.

Enums

SignalOrientation (Cobilas.Numeric.SignalOrientation.html)

Indicates the direction where the operation numbers will be obtained.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

- Cobilas.Numeric (Cobilas.Numeric.html)

BasicCalculation (Cobilas.Numeric.BasicCalculation.h

CalculationsCollection (Cobilas.Numeric.CalculationsColle

MathOperator (Cobilas.Numeric.MathOperator.htr

ParseCalculation (Cobilas.Numeric.ParseCalculation.h

SignalOrientation (Cobilas.Numeric.SignalOrientation

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

Class BasicCalculation

Basic functions of mathematical operations.

Filter by title

Inheritance

- object (https://learn.microsoft.com/dotnet/api/system.object)
  - CalculationsCollection (Cobilas.Numeric.CalculationsCollection.html)
    - BasicCalculation

Inherited Members

CalculationsCollection.Merge(CalculationsCollection, CalculationsCollection) (Cobilas.Numeric.CalculationsCollection.html#Cobilas_Numeric_CalculationsCollection_Merge_Cobilas_Numeric_CalculationsCollection_Cobilas_Numeric_CalculationsCollection_)

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system.object,system.object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Numeric (Cobilas.Numeric.html)

Assembly: Cobilas.Core.dll

Syntax

```
public class BasicCalculation : CalculationsCollection
```

Properties

Calculations

The list of calculation functions.

Declaration

```
public override MathOperator[] Calculations { get; protected set; }
```

Property Value

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htr
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Type	Description
MathOperator (Cobilas.Numeric.MathOperator.html)[]	

Overrides

CalculationsCollection.Calculations (Cobilas.Numeric.CalculationsCollection.html#Cobilas_Numeric_CalculationsCollection_Calculations)

OverwriteCalculations

The list of calculation functions that will replace other calculation functions.

Declaration

```
public override MathOperator[] OverwriteCalculations { get; protected set; }
```

Property Value

Type	Description
MathOperator (Cobilas.Numeric.MathOperator.html)[]	

Overrides

CalculationsCollection.OverwriteCalculations (Cobilas.Numeric.CalculationsCollection.html#Cobilas_Numeric_CalculationsCollection_OverwriteCalculations)

Methods

Clac(double, string, double)

Function responsible for calling a calculation function specified the sign of the mathematical operation.

Declaration

```
public override double Clac(double V1, string S, double V2)
```

Parameters

Type	Name	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	*V1*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	mathematical operator.
double (https://learn.microsoft.com/dotnet/api/system.double)	*V2*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

Overrides

CalculationsCollection.Clac(double, string, double)
(Cobilas.Numeric.CalculationsCollection.html#Cobilas_Numeric_CalculationsCollection_Clac_System_Double_System_String_System_Double_)

Initialization()

Function to initialize the calculation functions.

Declaration

```
public override void Initialization()
```

Overrides

CalculationsCollection.Initialization()
(Cobilas.Numeric.CalculationsCollection.html#Cobilas_Numeric_CalculationsCollection_Initialization)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

- **Cobilas.Numeric (Cobilas.Numeric.html)**
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htm
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
- **System (System.html)**
- **System.Collections.Generic (System.Collections.Generic.htm**
- **System.IO (System.IO.html)**
- **System.Reflection (System.Reflection.html)**
- **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
- **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
- **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
- **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
- **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

Class CalculationsCollection

Base class used to store calculation and calculation overwriting functions.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ CalculationsCollection
↳ BasicCalculation (Cobilas.Numeric.BasicCalculation.html)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Numeric (Cobilas.Numeric.html)
Assembly: Cobilas.Core.dll

Syntax

```
public abstract class CalculationsCollection
```

Properties

Calculations

The Calculations functions.

Declaration

```
public abstract MathOperator[] Calculations { get; protected set; }
```

Property Value

Type	Description
MathOperator (Cobilas.Numeric.MathOperator.html)[]	

OverwriteCalculations

The list of calculation functions that will replace other calculation functions.

Declaration

```
public abstract MathOperator[] OverwriteCalculations { get; protected set; }
```

Property Value

Type	Description
MathOperator (Cobilas.Numeric.MathOperator.html)[]	

Methods

Clac(double, string, double)

Function responsible for calling a calculation function specified the sign of the mathematical operation.

Declaration

```
public abstract double Clac(double V1, string S, double V2)
```

Parameters

Type	Name	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	*V1*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	mathematical operator.
double (https://learn.microsoft.com/dotnet/api/system.double)	*V2*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

Initialization()

Function to initialize the calculation functions.

Declaration

```
public abstract void Initialization()
```


+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  CalculationsCollection (Cobilas.Numeric.CalculationsColle
  MathOperator (Cobilas.Numeric.MathOperator.htm
  ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.htm
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Merge(CalculationsCollection, CalculationsCollection)

Merge two collections of calculations.

Declaration

```
public static CalculationsCollection Merge(CalculationsCollection A, CalculationsCollection
B)
```

Parameters

Type	Name	Description
CalculationsCollection (Cobilas.Numeric.CalculationsCollection.html)	*A*	
CalculationsCollection (Cobilas.Numeric.CalculationsCollection.html)	*B*	

Returns

Type	Description
CalculationsCollection (Cobilas.Numeric.CalculationsCollection.html)	

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
  - **BasicCalculation (Cobilas.Numeric.BasicCalculation.h**
  - **CalculationsCollection (Cobilas.Numeric.CalculationsColle**
  - **MathOperator (Cobilas.Numeric.MathOperator.htr**
  - **ParseCalculation (Cobilas.Numeric.ParseCalculation.h**
  - **SignalOrientation (Cobilas.Numeric.SignalOrientation**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**

Struct MathOperator

It represents the mathematical signal and performs its mathematical operation.

Filter by title

Implements

IEquatable (https://learn.microsoft.com/dotnet/api/system.iequatable-1)<string (https://learn.microsoft.com/dotnet/api/system.string)>
IEquatable (https://learn.microsoft.com/dotnet/api/system.iequatable-1)<byte (https://learn.microsoft.com/dotnet/api/system.byte)>
IEquatable (https://learn.microsoft.com/dotnet/api/system.iequatable-1)<SignalOrientation (Cobilas.Numeric.SignalOrientation.html)>

Inherited Members

ValueType.ToString() (https://learn.microsoft.com/dotnet/api/system.valuetype.tostring)
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: Cobilas (Cobilas.html).Numeric (Cobilas.Numeric.html)
Assembly: Cobilas.Core.dll

Syntax

```
public readonly struct MathOperator : IEquatable<string>, IEquatable<byte>, IEquatable<SignalOrientation>
```

Constructors

MathOperator(char, Func<double, double, double>, SignalOrientation)

Declaration

```
public MathOperator(char signal, Func<double, double, double> function, SignalOrientation orientation)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*signal*	The sign of the mathematical operation.

Type	Name	Description
Func (https://learn.microsoft.com/dotnet/api/system.func-3)< double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double)>	*function*	The function that performs the mathematical operation.
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*orientation*	Indicates the direction where the operation numbers will be obtained.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
BasicCalculation (Cobilas.Numeric.BasicCalculation.h
CalculationsCollection (Cobilas.Numeric.CalculationsColle
MathOperator (Cobilas.Numeric.MathOperator.htm
ParseCalculation (Cobilas.Numeric.ParseCalculation.html
SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htm
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

MathOperator(char, Func<double, double, double>, SignalOrientation, byte)

Declaration

```
public MathOperator(char signal, Func<double, double, double> function, SignalOrientation or
ientation, byte executionLevel)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*signal*	The sign of the mathematical operation.
Func (https://learn.microsoft.com/dotnet/api/system.func-3)< double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double)>	*function*	The function that performs the mathematical operation.
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*orientation*	Indicates the direction where the operation numbers will be obtained.
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*executionLevel*	The order of execution of the mathematical operation.

MathOperator(string, Func<double, double, double>, SignalOrientation)

Declaration

```
public MathOperator(string signal, Func<double, double, double> function, SignalOrientation
orientation)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*signal*	The sign of the mathematical operation.
Func (https://learn.microsoft.com/dotnet/api/system.func-3)< double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double)>	*function*	The function that performs the mathematical operation.
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*orientation*	Indicates the direction where the operation numbers will be obtained.

MathOperator(string, Func<double, double, double>, SignalOrientation, byte)

Declaration

```
public MathOperator(string signal, Func<double, double, double> function, SignalOrientation
orientation, byte executionLevel)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*signal*	The sign of the mathematical operation.
Func (https://learn.microsoft.com/dotnet/api/system.func-3)< double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double), double (https://learn.microsoft.com/dotnet/api/system.double)>	*function*	The function that performs the mathematical operation.
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*orientation*	Indicates the direction where the operation numbers will be obtained.
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*executionLevel*	The order of execution of the mathematical operation.

Properties

ExecutionLevel

This property represents the order of execution of the mathematical operation.

Declaration

```
public byte ExecutionLevel { get; }
```

Property Value

Type	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	

Function

The function that performs the mathematical operation.

Declaration

```
public Delegate? Function { get; }
```

Property Value

Type	Description
Delegate (https://learn.microsoft.com/dotnet/api/system.delegate)	

Orientation

Indicates the direction where the operation numbers will be obtained.

Declaration

```
public SignalOrientation Orientation { get; }
```

Property Value

Type	Description
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	

Signal

The sign of the mathematical operation.

Declaration

```
public SignalFormat Signal { get; }
```

Property Value

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htr
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

Equals(SignalOrientation)

Performs the comparison between MathOperator (Cobilas.Numeric.MathOperator.html) and SignalOrientation (Cobilas.Numeric.SignalOrientation.html).

Declaration

```
public bool Equals(SignalOrientation other)
```

Parameters

Type	Name	Description
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*other*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Equals(byte)

Performs the comparison between MathOperator (Cobilas.Numeric.MathOperator.html) and byte (https://learn.microsoft.com/dotnet/api/system.byte).

Declaration

```
public bool Equals(byte other)
```

Parameters

Type	Name	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*other*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
BasicCalculation (Cobilas.Numeric.BasicCalculation.h
CalculationsCollection (Cobilas.Numeric.CalculationsColle
MathOperator (Cobilas.Numeric.MathOperator.htr
ParseCalculation (Cobilas.Numeric.ParseCalculation.h
SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Equals(object?)

Indicates whether this instance and a specified object are equal.

Declaration

```
public override bool Equals(object? obj)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*obj*	The object to compare with the current instance.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	true (https://learn.microsoft.com/dotnet/csharp/language-reference/builtin-types/bool) if `obj` and this instance are the same type and represent the same value; otherwise, false (https://learn.microsoft.com/dotnet/csharp/language-reference/builtin-types/bool).

Overrides

ValueTuple.Equals(object?) (https://learn.microsoft.com/dotnet/api/system.valuetype.equals)

Equals(string?)

Performs the comparison between MathOperator (Cobilas.Numeric.MathOperator.html) and string (https://learn.microsoft.com/dotnet/api/system.string).

Declaration

```
public bool Equals(string? other)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*other*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

GetHashCode()

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.hi
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
  BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  CalculationsCollection (Cobilas.Numeric.CalculationsColle
  MathOperator (Cobilas.Numeric.MathOperator.htr
  ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htl
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Returns the hash code for this instance.

Declaration

```
public override int GetHashCode()
```

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	A 32-bit signed integer that is the hash code for this instance.

Overrides

ValueType.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.valuetype.gethashcode)

Operators

operator ==(MathOperator, SignalOrientation)

Indicates whether this instance is equal to another instance of the same type.

Declaration

```
public static bool operator ==(MathOperator A, SignalOrientation B)
```

Parameters

Type	Name	Description
MathOperator (Cobilas.Numeric.MathOperator.html)	*A*	Object to be compared.
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator ==(MathOperator, byte)

Indicates whether this instance is equal to another instance of the same type.

Declaration

```
public static bool operator ==(MathOperator A, byte B)
```

Parameters

Type	Name	Description
MathOperator (Cobilas.Numeric.MathOperator.html)	*A*	Object to be compared.
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator ==(MathOperator, string)

Indicates whether this instance is equal to another instance of the same type.

Declaration

```
public static bool operator ==(MathOperator A, string B)
```

Parameters

Type	Name	Description
MathOperator (Cobilas.Numeric.MathOperator.html)	*A*	Object to be compared.
string (https://learn.microsoft.com/dotnet/api/system.string)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator ==(SignalOrientation, MathOperator)

Indicates whether this instance is equal to another instance of the same type.

Declaration

```
public static bool operator ==(SignalOrientation A, MathOperator B)
```

Parameters

Type	Name	Description
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*A*	Object to be compared.
MathOperator (Cobilas.Numeric.MathOperator.html)	*B*	Object of comparison.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.html
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator ==(byte, MathOperator)

Indicates whether this instance is equal to another instance of the same type.

Declaration

```
public static bool operator ==(byte A, MathOperator B)
```

Parameters

Type	Name	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*A*	Object to be compared.
MathOperator (Cobilas.Numeric.MathOperator.html)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator ==(string, MathOperator)

Indicates whether this instance is equal to another instance of the same type.

Declaration

```
public static bool operator ==(string A, MathOperator B)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*A*	Object to be compared.
MathOperator (Cobilas.Numeric.MathOperator.html)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

operator !=(MathOperator, SignalOrientation)

Indicates whether this instance is different from another instance of the same type.

Declaration

```
public static bool operator !=(MathOperator A, SignalOrientation B)
```

Parameters

Type	Name	Description
MathOperator (Cobilas.Numeric.MathOperator.html)	*A*	Object to be compared.
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator !=(MathOperator, byte)

Indicates whether this instance is different from another instance of the same type.

Declaration

```
public static bool operator !=(MathOperator A, byte B)
```

Parameters

Type	Name	Description
MathOperator (Cobilas.Numeric.MathOperator.html)	*A*	Object to be compared.
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator !=(MathOperator, string)

Indicates whether this instance is different from another instance of the same type.

Declaration

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htr
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

```
public static bool operator !=(MathOperator A, string B)
```

Parameters

Type	Name	Description
MathOperator (Cobilas.Numeric.MathOperator.html)	*A*	Object to be compared.
string (https://learn.microsoft.com/dotnet/api/system.string)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator !=(SignalOrientation, MathOperator)

Indicates whether this instance is different from another instance of the same type.

Declaration

```
public static bool operator !=(SignalOrientation A, MathOperator B)
```

Parameters

Type	Name	Description
SignalOrientation (Cobilas.Numeric.SignalOrientation.html)	*A*	Object to be compared.
MathOperator (Cobilas.Numeric.MathOperator.html)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator !=(byte, MathOperator)

Indicates whether this instance is different from another instance of the same type.

Declaration

```
public static bool operator !=(byte A, MathOperator B)
```

Parameters

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htr
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Type	Name	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*A*	Object to be compared.
MathOperator (Cobilas.Numeric.MathOperator.html)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

operator != (string, MathOperator)

Indicates whether this instance is different from another instance of the same type.

Declaration

```
public static bool operator !=(string A, MathOperator B)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*A*	Object to be compared.
MathOperator (Cobilas.Numeric.MathOperator.html)	*B*	Object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns the result of the comparison.

Implements

IEquatable<T> (https://learn.microsoft.com/dotnet/api/system.iequatable-1)
IEquatable<T> (https://learn.microsoft.com/dotnet/api/system.iequatable-1)
IEquatable<T> (https://learn.microsoft.com/dotnet/api/system.iequatable-1)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

+ Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric
(Cobilas.Numeric.html)
BasicCalculation
(Cobilas.Numeric.BasicCalculation.h
CalculationsCollection
(Cobilas.Numeric.CalculationsColle
MathOperator
(Cobilas.Numeric.MathOperator.htr
ParseCalculation
(Cobilas.Numeric.ParseCalculation.h
SignalOrientation
(Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic
(System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection
(System.Reflection.html)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

- Cobilas.Numeric (Cobilas.Numeric.html)

BasicCalculation (Cobilas.Numeric.BasicCalculation.h
CalculationsCollection (Cobilas.Numeric.CalculationsColle
MathOperator (Cobilas.Numeric.MathOperator.htr
ParseCalculation (Cobilas.Numeric.ParseCalculation.h
SignalOrientation (Cobilas.Numeric.SignalOrientation

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

Class ParseCalculation

Performs all parse operations.

Filter by title

Inheritance

- object (https://learn.microsoft.com/dotnet/api/system.object)
  - ParseCalculation

Inherited Members

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Numeric (Cobilas.Numeric.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class ParseCalculation
```

Properties

Collections

All collections of mathematical operations created.

Declaration

```
public static CalculationsCollection[] Collections { get; }
```

Property Value

Type	Description
CalculationsCollection (Cobilas.Numeric.CalculationsCollection.html)[]	

Methods

DebugLogCalc(string)

Take a text containing a mathematical formula and perform the calculation.

Prints the mathematical formula and its result.

Declaration

```
public static double DebugLogCalc(string text)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

Parse(string)

Take a text containing a mathematical formula and perform the calculation.

Declaration

```
public static double Parse(string text)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

PrintConsoleCalc(string)

Take a text containing a mathematical formula and perform the calculation.

Prints the mathematical formula and its result.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htr
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Declaration

```
public static double PrintConsoleCalc(string text)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization. Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
- **Cobilas.Numeric (Cobilas.Numeric.html)**
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.htı**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**

Enum SignalOrientation

Indicates the direction where the operation numbers will be obtained.

Filter by title

Namespace: Cobilas (Cobilas.html).Numeric (Cobilas.Numeric.html)

Assembly: Cobilas.Core.dll

Syntax

```
public enum SignalOrientation : byte
```

Fields

Name	Description
both	2<+>2=4 Need two numbers on the sign side.
left	2<sqr=4 You need the numbers on the left side of the sign.
none	None
right	sqr>2=4 You need the numbers on the right side of the sign.

Extension Methods

Enum_CB_Extension.Format(Enum, object, string)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_Format_System_Enum_System_Object_System_String_)

Enum_CB_Extension.GetEnumPair(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetEnumPair_System_Enum_)

Enum_CB_Extension.GetEnumPairs(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetEnumPairs_System_Enum_)

Enum_CB_Extension.GetName(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetName_System_Enum_)

Enum_CB_Extension.GetName(Enum, object)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetName_System_Enum_System_Object_)

Enum_CB_Extension.GetNames(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetNames_System_Enum_)

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric (Cobilas.Numeric.html)
  - BasicCalculation (Cobilas.Numeric.BasicCalculation.h
  - CalculationsCollection (Cobilas.Numeric.CalculationsColle
  - MathOperator (Cobilas.Numeric.MathOperator.htr
  - ParseCalculation (Cobilas.Numeric.ParseCalculation.h
  - SignalOrientation (Cobilas.Numeric.SignalOrientation
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

- Cobilas.Numeric (Cobilas.Numeric.html)

BasicCalculation (Cobilas.Numeric.BasicCalculation.h
CalculationsCollection (Cobilas.Numeric.CalculationsColle
MathOperator (Cobilas.Numeric.MathOperator.htr
ParseCalculation (Cobilas.Numeric.ParseCalculation.h
SignalOrientation (Cobilas.Numeric.SignalOrientation

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

Namespace Cobilas.Numeric.Convert

Classes

Filter by title

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.hi**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization. Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
- **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
  - BitArray_Binary_Extension (Cobilas.Numeric.Convert.BitArray_
  - String_Hexadecimal_Extension (Cobilas.Numeric.Convert.String_He
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.htı**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security. Cryptography**

BitArray_Binary_Extension (Cobilas.Numeric.Convert.BitArray_Binary_Extension.html)

This extension allows conversion from BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray) to byte (https://learn.microsoft.com/dotnet/api/system.byte) array.

String_Hexadecimal_Extension (Cobilas.Numeric.Convert.String_Hexadecimal_Extension.html)

This extension allows string (https://learn.microsoft.com/dotnet/api/system.string) to Hexadecimal conversion.

Class BitArray_Binary_Extension

This extension allows conversion from BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray) to byte (https://learn.microsoft.com/dotnet/api/system.byte) array.

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ BitArray_Binary_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Numeric (Cobilas.Numeric.html).Convert (Cobilas.Numeric.Convert.html)
Assembly: Cobilas.dll

Syntax

```
public static class BitArray_Binary_Extension
```

Methods

BitToDecimal(BitArray)

Convert BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray) to decimal (https://learn.microsoft.com/dotnet/api/system.decimal).

Declaration

```
public static decimal BitToDecimal(this BitArray array)
```

Parameters

Type	Name	Description
BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray)	*array*	

Returns

Type	Description
decimal (https://learn.microsoft.com/dotnet/api/system.decimal)	

GetBinaryArray(BitArray)

Transforms a BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray) into a byte (https://learn.microsoft.com/dotnet/api/system.byte) list.

Declaration

```
public static byte[] GetBinaryArray(this BitArray array)
```

Parameters

Type	Name	Description
BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray)	*array*	

Returns

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

SetBinaryArray(BitArray, byte[])

Defines a list of bytes in the BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray) object.

Declaration

```
public static void SetBinaryArray(this BitArray array, byte[] binaryArray)
```

Parameters

Type	Name	Description
BitArray (https://learn.microsoft.com/dotnet/api/system.collections.bitarray)	*array*	
byte (https://learn.microsoft.com/dotnet/api/system.byte)[]	*binaryArray*	

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
BitArray_Binary_Extension (Cobilas.Numeric.Convert.BitArray_
String_Hexadecimal_Extension (Cobilas.Numeric.Convert.String_He
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Class String_Hexadecimal_Extension

This extension allows string (https://learn.microsoft.com/dotnet/api/system.string) to Hexadecimal conversion.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)
↳ String_Hexadecimal_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Numeric (Cobilas.Numeric.html).Convert (Cobilas.Numeric.Convert.html)
Assembly: Cobilas.Core.dll

Syntax

```
public static class String_Hexadecimal_Extension
```

Methods

HexToDecimal(string)

Converts hexadecimal value to decimal.

Declaration

```
public static decimal HexToDecimal(this string str)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*str*	

Returns

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
- Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
BitArray_Binary_Extension (Cobilas.Numeric.Convert.BitArray_
String_Hexadecimal_Extension (Cobilas.Numeric.Convert.String_He
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Type	Description
decimal (https://learn.microsoft.com/dotnet/api/system.decimal)	

IsHexadecimal(string)

Checks whether the text value is a hexadecimal value.

Declaration

```
public static bool IsHexadecimal(this string str)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*str*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
- Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
  BitArray_Binary_Extension (Cobilas.Numeric.Convert.BitArray_
  String_Hexadecimal_Extension (Cobilas.Numeric.Convert.String_He
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography

Namespace Cobilas.Threading.Tasks

Classes

Filter by title

- **(Cobilas.Collections.Generic.ht**

TaskPool (Cobilas.Threading.Tasks.TaskPool.html)

Allows the use of a task pool.

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
- **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

  TaskPool (Cobilas.Threading.Tasks.TaskPool.h

+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptogra**

Class TaskPool

Allows the use of a task pool.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ TaskPool

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Cobilas (Cobilas.html).Threading (Cobilas.Threading.html).Tasks (Cobilas.Threading.Tasks.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class TaskPool
```

Properties

- Count

Returns the number of allocated tasks.

Declaration

```
public static int Count { get; }
```

Property Value

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

NonVacantTaskCount

The number of tasks that are not vacant.

Declaration

```
public static int NonVacantTaskCount { get; }
```

Property Value

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

VacantTaskCount

The number of tasks that are already vacant.

Declaration

```
public static int VacantTaskCount { get; }
```

Property Value

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Methods

InitTask(Action)

The number of tasks that are not vacant.

Declaration

```
public static void InitTask(Action action)
```

Parameters

Type	Name	Description
Action (https://learn.microsoft.com/dotnet/api/system.action)	*action*	

InitTask(Action, out Task)

The number of tasks that are not vacant.

+ Cobilas.Collections (Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
  TaskPool (Cobilas.Threading.Tasks.TaskPool.h
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography

Declaration

```
public static void InitTask(Action action, out Task task)
```

Parameters

Type	Name	Description
Action (https://learn.microsoft.com/dotnet/api/system.action)	*action*	
Task (https://learn.microsoft.com/dotnet/api/system.threading.tasks.task)	*task*	

InitTask<TRes>(Func<TRes>)

The number of tasks that are not vacant.

Declaration

```
public static void InitTask<TRes>(Func<TRes> func)
```

Parameters

Type	Name	Description
Func (https://learn.microsoft.com/dotnet/api/system.func-1)<TRes>	*func*	

Type Parameters

Name	Description
TRes	

InitTask<TRes>(Func<TRes>, out Task<TRes>)

The number of tasks that are not vacant.

Declaration

```
public static void InitTask<TRes>(Func<TRes> func, out Task<TRes> res)
```

Parameters

Type	Name	Description
Func (https://learn.microsoft.com/dotnet/api/system.func-1)<TRes>	*func*	
Task (https://learn.microsoft.com/dotnet/api/system.threading.tasks.task-1)<TRes>	*res*	

Type Parameters

+ Cobilas.Collections (Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
- Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
  - TaskPool (Cobilas.Threading.Tasks.TaskPool.h
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptogra

Name	Description
TRes	

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

- Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

  TaskPool (Cobilas.Threading.Tasks.TaskPool.h

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptogra

Namespace System

Classes

Filter by title

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.SerializationJson (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**

  Char_CB_Extension (System.Char_CB_Extension.html)
  Enum_CB_Extension (System.Enum_CB_Extension.html)
  EscapeSequence (System.EscapeSequence.html)
  Object_CB_Extension (System.Object_CB_Extension.html)
  String_CB_Extension (System.String_CB_Extension.html)
  Type_CB_Extension (System.Type_CB_Extension.html)
+ **System.Collections.Generic (System.Collections.Generic.htı**
+ **System.IO (System.IO.html)**
+ **System.Reflection**

Char_CB_Extension (System.Char_CB_Extension.html)

This extension gives the char structure new methods.

Enum_CB_Extension (System.Enum_CB_Extension.html)

Grants more methods to Enum (https://learn.microsoft.com/dotnet/api/system.enum) class.

Object_CB_Extension (System.Object_CB_Extension.html)

Grants more methods to object (https://learn.microsoft.com/dotnet/api/system.object) class.

String_CB_Extension (System.String_CB_Extension.html)

Grants more methods to string (https://learn.microsoft.com/dotnet/api/system.string) class.

Type_CB_Extension (System.Type_CB_Extension.html)

Contains methods extension for Type (https://learn.microsoft.com/dotnet/api/system.type) class.

Enums

EscapeSequence (System.EscapeSequence.html)

Represents an escape sequence.

Class Char_CB_Extension

This extension gives the char structure new methods.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ Char_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (System.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class Char_CB_Extension
```

Methods

EscapeSequenceToString(char)

Method that interprets a char value.

Declaration

```
public static string EscapeSequenceToString(this char c)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*c*	

Returns

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
Char_CB_Extension (System.Char_CB_Extension.html)
Enum_CB_Extension (System.Enum_CB_Extension.html)
EscapeSequence (System.EscapeSequence.html)
Object_CB_Extension (System.Object_CB_Extension.html)
String_CB_Extension (System.String_CB_Extension.html)
Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	The method returns a value of type EscapeSequence (System.EscapeSequence.html) representing the type of escape sequence. The return is converted to a string (https://learn.microsoft.com/dotnet/api/system.string).

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ **System.Collections.Generic (System.Collections.Generic.htl**
+ **System.IO (System.IO.html)**
+ **System.Reflection**

InterpretEscapeSequence(char)

Method that interprets a char value.

Declaration

```
public static EscapeSequence InterpretEscapeSequence(this char c)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*c*	

Returns

Type	Description
EscapeSequence (System.EscapeSequence.html)	The method returns a value of type EscapeSequence (System.EscapeSequence.html) representing the type of escape sequence.

ToSByte(char)

Declaration

```
public static sbyte ToSByte(this char c)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)	*c*	

Returns

Type	Description
sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte)	

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

+ **Cobilas.Numeric (Cobilas.Numeric.html)**

+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**

+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

- **System (System.html)**

  Char_CB_Extension (System.Char_CB_Extension.html)
  Enum_CB_Extension (System.Enum_CB_Extension.html)
  EscapeSequence (System.EscapeSequence.html)
  Object_CB_Extension (System.Object_CB_Extension.html)
  String_CB_Extension (System.String_CB_Extension.html)
  Type_CB_Extension (System.Type_CB_Extension.html)

+ **System.Collections.Generic (System.Collections.Generic.ht**

+ **System.IO (System.IO.html)**

+ **System.Reflection**

Class Enum_CB_Extension

Grants more methods to Enum (https://learn.microsoft.com/dotnet/api/system.enum) class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ Enum_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (System.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class Enum_CB_Extension
```

Methods

Format(Enum, object, string)

Converts the specified value of a specified enumerated type to its equivalent string (https://learn.microsoft.com/dotnet/api/system.string) representation according to the specified format.

Declaration

```
public static string Format(this Enum E, object value, string format)
```

Parameters

Type	Name	Description
Enum (https://learn.microsoft.com/dotnet/api/system.enum)	*E*	The target enumerator.
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The value to convert.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
Char_CB_Extension (System.Char_CB_Extension.html)
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EscapeSequence (System.EscapeSequence.html)
Object_CB_Extension (System.Object_CB_Extension.html)
String_CB_Extension (System.String_CB_Extension.html)
Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*format*	The output format to use.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	A string representation of value.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	The enumType, value, or format parameter is null.
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	The enumType parameter is not an Enum (https://learn.microsoft.com/dotnet/api/system.enum) type. -or- The value is from an enumeration that differs in type from enumType. -or- The type of value is not an underlying type of enumType.
FormatException (https://learn.microsoft.com/dotnet/api/system.formatexception)	The format parameter contains an invalid value.
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	format equals "X", but the enumeration type is unknown.

GetEnumPair(Enum)

Gets the tag with the current assigned value.

Declaration

```
public static KeyValuePair<string, int> GetEnumPair(this Enum E)
```

Parameters

Type	Name	Description
Enum (https://learn.microsoft.com/dotnet/api/system.enum)	*E*	The target enumerator.

Returns

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Description
KeyValuePair (https://learn.microsoft.com/dotnet/api/system.collections.generic.keyvaluepair-2)<string (https://learn.microsoft.com/dotnet/api/system.string), int (https://learn.microsoft.com/dotnet/api/system.int32)>	

GetEnumPairs(Enum)

Gets a list of all tags along with their assigned values.

Declaration

```
public static KeyValuePair<string, int>[] GetEnumPairs(this Enum E)
```

Parameters

Type	Name	Description
Enum (https://learn.microsoft.com/dotnet/api/system.enum)	*E*	The target enumerator.

Returns

Type	Description
KeyValuePair (https://learn.microsoft.com/dotnet/api/system.collections.generic.keyvaluepair-2)<string (https://learn.microsoft.com/dotnet/api/system.string), int (https://learn.microsoft.com/dotnet/api/system.int32)>[]	Returns a list of all tags along with their assigned values or an empty list.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	enumType is null.

GetName(Enum)

Retrieves the name of the constant in the specified enumeration that has the specified value.

Declaration

```
public static string GetName(this Enum E)
```

Parameters

Type	Name	Description
Enum (https://learn.microsoft.com/dotnet/api/system.enum)	*E*	The target enumerator.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	A string containing the name of the enumerated constant in enumType whose value is value; or null if no such constant is found.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	enumType is null.
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	enumType is not an Enum (https://learn.microsoft.com/dotnet/api/system.enum). -or- value is neither of type enumType nor does it have the same underlying type as enumType.

GetName(Enum, object)

Retrieves the name of the constant in the specified enumeration that has the specified value.

Declaration

```
public static string GetName(this Enum E, object value)
```

Parameters

Type	Name	Description
Enum (https://learn.microsoft.com/dotnet/api/system.enum)	*E*	The target enumerator.
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	The value of a particular enumerated constant in terms of its underlying type.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	A string (https://learn.microsoft.com/dotnet/api/system.string) containing the name of the enumerated constant in enumType whose value is value; or null if no such constant is found.

Exceptions

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.htm
+ System.IO (System.IO.html)
+ System.Reflection

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	enumType is null.
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	enumType is not an Enum (https://learn.microsoft.com/dotnet/api/system.enum). -or- value is neither of type enumType nor does it have the same underlying type as enumType.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
Char_CB_Extension (System.Char_CB_Extension.html)
Enum_CB_Extension (System.Enum_CB_Extension.html)
EscapeSequence (System.EscapeSequence.html)
Object_CB_Extension (System.Object_CB_Extension.html)
String_CB_Extension (System.String_CB_Extension.html)
Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

GetNames(Enum)

Retrieves an array of the names of the constants in a specified enumeration.

Declaration

```
public static string[] GetNames(this Enum E)
```

Parameters

Type	Name	Description
Enum (https://learn.microsoft.com/dotnet/api/system.enum)	*E*	The target enumerator.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string) []	A string array of the names of the constants in enumType.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	enumType is null.
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	enumType parameter is not an Enum (https://learn.microsoft.com/dotnet/api/system.enum) .

Enum EscapeSequence

Represents an escape sequence.

Filter by title

Namespace: System (System.html)
Assembly: Cobilas.Core.dll

Syntax

```
public enum EscapeSequence
```

Fields

Name	Description
Acute	Represents the escape sequence.(`\a`)
BackSlash	Represents the escape sequence.(`\`)
Backspace	Represents the escape sequence.(`\b`)
CarriageReturn	Represents the escape sequence.(`\r`)
DoubleQuote	Represents the escape sequence.(`"`)
FormFeed	Represents the escape sequence.(`\f`)
HorizontalTab	Represents the escape sequence.(`\t`)
NewLine	Represents the escape sequence.(`\n`)
None	Represents no escape sequence.
Null	Represents the escape sequence.(`\0`)
SingleQuote	Represents the escape sequence.(`'`)
VerticalTab	Represents the escape sequence.(`\v`)

Extension Methods

Enum_CB_Extension.Format(Enum, object, string)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_Format_System_Enum_System_Object_System_String_)

Enum_CB_Extension.GetEnumPair(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetEnumPair_System_Enum_)

Enum_CB_Extension.GetEnumPairs(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetEnumPairs_System_Enum_)

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
- **System (System.html)**
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ **System.Collections.Generic (System.Collections.Generic.htl**
+ **System.IO (System.IO.html)**
+ **System.Reflection**

Enum_CB_Extension.GetName(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetName_System_Enum_)
Enum_CB_Extension.GetName(Enum, object)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetName_System_Enum_System_Object_)
Enum_CB_Extension.GetNames(Enum)
(System.Enum_CB_Extension.html#System_Enum_CB_Extension_GetNames_System_Enum_)
Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.hi

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

- System (System.html)

Char_CB_Extension
(System.Char_CB_Extension.html)
Enum_CB_Extension
(System.Enum_CB_Extension.html)
EscapeSequence
(System.EscapeSequence.html)
Object_CB_Extension
(System.Object_CB_Extension.html)
String_CB_Extension
(System.String_CB_Extension.html)
Type_CB_Extension
(System.Type_CB_Extension.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

+ System.Reflection

Class Object_CB_Extension

Grants more methods to object (https://learn.microsoft.com/dotnet/api/system.object) class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ Object_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (System.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class Object_CB_Extension
```

Methods

CompareType(object, Type)

Compares the object's type to a specified type.

Declaration

```
public static bool CompareType(this object O, Type type)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*O*	The target object of comparison.
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	The specified comparison type.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

CompareType(object, params Type[])

Compares the object's type to a specified list of types.

Declaration

```
public static bool CompareType(this object O, params Type[] types)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*O*	The target object of comparison.
Type (https://learn.microsoft.com/dotnet/api/system.type)[]	*types*	The specified comparison types.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

CompareTypeAndSubType(object, Type)

Compares class type and the class it inherits.

Declaration

```
public static bool CompareTypeAndSubType(this object O, Type type)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*O*	
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

CompareTypeAndSubType(object, Type, bool)

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection

Compares class type and the class it inherits.

Declaration

```
public static bool CompareTypeAndSubType(this object O, Type type, bool IncludeInterface)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*O*	
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*IncludeInterface*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

CompareTypeAndSubType<T>(object)

Compares class type and the class it inherits.

Declaration

```
public static bool CompareTypeAndSubType<T>(this object O)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*O*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Type Parameters

Name	Description
T	

CompareTypeAndSubType<T>(object, bool)

Compares class type and the class it inherits.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Declaration

```
public static bool CompareTypeAndSubType<T>(this object O, bool IncludeInterface)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*O*	
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*IncludeInterface*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Type Parameters

Name	Description
T	

CompareType<T>(object)

Compares the object's type with a specified generic type.

Declaration

```
public static bool CompareType<T>(this object O)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*O*	The target object of comparison.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Type Parameters

Name	Description
T	The generic comparison type specified.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**

+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**

+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**

+ **Cobilas.Numeric (Cobilas.Numeric.html)**

+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**

+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**

- **System (System.html)**

  Char_CB_Extension (System.Char_CB_Extension.html)
  Enum_CB_Extension (System.Enum_CB_Extension.html)
  EscapeSequence (System.EscapeSequence.html)
  Object_CB_Extension (System.Object_CB_Extension.html)
  String_CB_Extension (System.String_CB_Extension.html)
  Type_CB_Extension (System.Type_CB_Extension.html)

+ **System.Collections.Generic (System.Collections.Generic.ht**

+ **System.IO (System.IO.html)**

+ **System.Reflection**

Class String_CB_Extension

Grants more methods to string (https://learn.microsoft.com/dotnet/api/system.string) class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ String_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (System.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class String_CB_Extension
```

Methods

Contains(string, params char[])

Returns a value indicating whether a specified substring occurs within this string.

Declaration

```
public static bool Contains(this string S, params char[] value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
char (https://learn.microsoft.com/dotnet/api/system.char)[]	*value*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Contains(string, params string[])

Returns a value indicating whether a specified substring occurs within this string.

Declaration

```
public static bool Contains(this string S, params string[] values)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
string (https://learn.microsoft.com/dotnet/api/system.string)[]	*values*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

ToByte(string)

Declaration

```
public static byte ToByte(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	

ToByte(string, NumberStyles, IFormatProvider)

Declaration

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection

```
public static byte ToByte(this string S, NumberStyles style, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	

ToByte(string, IFormatProvider)

Declaration

```
public static byte ToByte(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	

ToDecimal(string)

Declaration

```
public static decimal ToDecimal(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Returns

Type	Description
decimal (https://learn.microsoft.com/dotnet/api/system.decimal)	

ToDecimal(string, NumberStyles, IFormatProvider)

Declaration

```
public static decimal ToDecimal(this string S, NumberStyles style, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
decimal (https://learn.microsoft.com/dotnet/api/system.decimal)	

ToDecimal(string, IFormatProvider)

Declaration

```
public static decimal ToDecimal(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
decimal (https://learn.microsoft.com/dotnet/api/system.decimal)	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

ToDouble(string)

Declaration

```
public static double ToDouble(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

ToDouble(string, NumberStyles, IFormatProvider)

Declaration

```
public static double ToDouble(this string S, NumberStyles style, IFormatProvider formatProvi
der)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

ToDouble(string, IFormatProvider)

Declaration

```
public static double ToDouble(this string S, IFormatProvider formatProvider)
```

Parameters

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

ToFloat(string)

Declaration

```
public static float ToFloat(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
float (https://learn.microsoft.com/dotnet/api/system.single)	

ToFloat(string, NumberStyles, IFormatProvider)

Declaration

```
public static float ToFloat(this string S, NumberStyles style, IFormatProvider formatProvide
r)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Description
float (https://learn.microsoft.com/dotnet/api/system.single)	

ToFloat(string, IFormatProvider)

Declaration

```
public static float ToFloat(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
float (https://learn.microsoft.com/dotnet/api/system.single)	

ToGuid(string)

Converts a string (https://learn.microsoft.com/dotnet/api/system.string) to a Guid (https://learn.microsoft.com/dotnet/api/system.guid).

Declaration

```
public static Guid ToGuid(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	Receives a string that will be converted to a GUID.

Returns

Type	Description
Guid (https://learn.microsoft.com/dotnet/api/system.guid)	Returns a string already converted to GUID.

ToInt(string)

Declaration

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection

```
public static int ToInt(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

ToInt(string, NumberStyles, IFormatProvider)

Declaration

```
public static int ToInt(this string S, NumberStyles style, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

ToInt(string, IFormatProvider)

Declaration

```
public static int ToInt(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

ToLong(string)

Declaration

```
public static long ToLong(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

ToLong(string, NumberStyles, IFormatProvider)

Declaration

```
public static long ToLong(this string S, NumberStyles style, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

ToLong(string, IFormatProvider)

Declaration

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

```
public static long ToLong(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

ToSByte(string)

Declaration

```
public static sbyte ToSByte(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte)	

ToSByte(string, NumberStyles, IFormatProvider)

Declaration

```
public static sbyte ToSByte(this string S, NumberStyles style, IFormatProvide
r)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Name	Description
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte)	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

ToSByte(string, IFormatProvider)

Declaration

```
public static sbyte ToSByte(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte)	

ToShort(string)

Declaration

```
public static short ToShort(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
short (https://learn.microsoft.com/dotnet/api/system.int16)	

ToShort(string, NumberStyles, IFormatProvider)

Declaration

```
public static short ToShort(this string S, NumberStyles style, IFormatProvider formatProvide
r)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
short (https://learn.microsoft.com/dotnet/api/system.int16)	

ToShort(string, IFormatProvider)

Declaration

```
public static short ToShort(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
short (https://learn.microsoft.com/dotnet/api/system.int16)	

ToUInt(string)

Declaration

```
public static uint ToUInt(this string S)
```

Parameters

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
uint (https://learn.microsoft.com/dotnet/api/system.uint32)	

ToUInt(string, NumberStyles, IFormatProvider)

Declaration

```
public static uint ToUInt(this string S, NumberStyles style, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
uint (https://learn.microsoft.com/dotnet/api/system.uint32)	

ToUInt(string, IFormatProvider)

Declaration

```
public static uint ToUInt(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**
+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
- **System (System.html)**
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection**

Type	Description
uint (https://learn.microsoft.com/dotnet/api/system.uint32)	

ToULong(string)

Declaration

```
public static ulong ToULong(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
ulong (https://learn.microsoft.com/dotnet/api/system.uint64)	

ToULong(string, NumberStyles, IFormatProvider)

Declaration

```
public static ulong ToULong(this string S, NumberStyles style, IFormatProvider formatProvide
r)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
Numberstyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
ulong (https://learn.microsoft.com/dotnet/api/system.uint64)	

ToULong(string, IFormatProvider)

Declaration

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

```
public static ulong ToULong(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
ulong (https://learn.microsoft.com/dotnet/api/system.uint64)	

ToUShort(string)

Declaration

```
public static ushort ToUShort(this string S)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	

Returns

Type	Description
ushort (https://learn.microsoft.com/dotnet/api/system.uint16)	

ToUShort(string, NumberStyles, IFormatProvider)

Declaration

```
public static ushort ToUShort(this string S, NumberStyles style, IFormatProvider formatProvi
der)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
NumberStyles (https://learn.microsoft.com/dotnet/api/system.globalization.numberstyles)	*style*	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Name	Description
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
ushort (https://learn.microsoft.com/dotnet/api/system.uint16)	

ToUShort(string, IFormatProvider)

Declaration

```
public static ushort ToUShort(this string S, IFormatProvider formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*S*	
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	

Returns

Type	Description
ushort (https://learn.microsoft.com/dotnet/api/system.uint16)	

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection

Class Type_CB_Extension

Consecrate more methods for Type (https://learn.microsoft.com/dotnet/api/system.type) class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ Type_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (System.html)

Assembly: Cobilas.Core.dll

Syntax

```
public static class Type_CB_Extension
```

Methods

Activator(Type)

Creates an instance of an object from a type.

Declaration

```
public static object Activator(this Type type)
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	

Returns

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	

Activator<T>(Type)

Creates an instance of an object from a type.

Declaration

```
public static T Activator<T>(this Type type)
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	

Returns

Type	Description
T	

Type Parameters

Name	Description
T	

GetAttribute<T>(Type)

Gets the type attribute.

Declaration

```
public static T GetAttribute<T>(this Type type) where T : Attribute
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	

Returns

Type	Description
T	

Type Parameters

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection

Name	Description
T	The generic type used to obtain the target attribute.

GetAttribute<T>(Type, bool)

Gets the type attribute.

Declaration

```
public static T GetAttribute<T>(this Type type, bool inherit) where T : Attribute
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*inherit*	true to get attributes marked as inherited.

Returns

Type	Description
T	

Type Parameters

Name	Description
T	The generic type used to obtain the target attribute.

GetAttributes<T>(Type)

Gets all attributes of the type.

Declaration

```
public static T[] GetAttributes<T>(this Type type) where T : Attribute
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	

Returns

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.html)
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.html)
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.html)
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.html)
+ System.IO (System.IO.html)
+ System.Reflection

Type	Description
T[]	

Type Parameters

Name	Description
T	The generic type used to obtain the target attribute.

GetAttributes<T>(Type, bool)

Gets all attributes of the type.

Declaration

```
public static T[] GetAttributes<T>(this Type type, bool inherit) where T : Attribute
```

Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	*type*	
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*inherit*	true to get attributes marked as inherited.

Returns

Type	Description
T[]	

Type Parameters

Name	Description
T	The generic type used to obtain the target attribute.

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
- System (System.html)
  - Char_CB_Extension (System.Char_CB_Extension.html)
  - Enum_CB_Extension (System.Enum_CB_Extension.html)
  - EscapeSequence (System.EscapeSequence.html)
  - Object_CB_Extension (System.Object_CB_Extension.html)
  - String_CB_Extension (System.String_CB_Extension.html)
  - Type_CB_Extension (System.Type_CB_Extension.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection

Namespace System.Collections.Generic

Classes

Filter by title

(Cobilas.Collections.Generic.htl

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

- System.Collections.Generic (System.Collections.Generic.htı

  List_CB_Extension (System.Collections.Generic.List_CB

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptograph

List_CB_Extension (System.Collections.Generic.List_CB_Extension.html)

An extension class for the generic List class.

Class List_CB_Extension

An extension class for the generic List class.

Filter by title

Inheritance Collections

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ List_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Collections (https://learn.microsoft.com/dotnet/api/system.collections).Generic (https://learn.microsoft.com/dotnet/api/system.collections.generic)

Assembly: Cobilas.Core.dll

Syntax

```
public static class List_CB_Extension
```

Methods

Dequeue<T>(List<T>)

Removes and returns the object at the beginning of the Queue<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.queue-1).

Declaration

```
public static T Dequeue<T>(this List<T> list)
```

Parameters

Type	Name	Description
List (https://learn.microsoft.com/dotnet/api/system.collections.generic.list-1)<T>	*list*	

Returns

Type	Description
T	The object that is removed from the beginning of the Queue<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.queue-1).

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception-1)	The Queue<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.queue-1) is empty.

Pop<T> (List<T>)

Removes and returns the object at the top of the Stack<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.stack-1).

Declaration

```
public static T Pop<T>(this List<T> list)
```

Parameters

Type	Name	Description
List (https://learn.microsoft.com/dotnet/api/system.collections.generic.list-1)<T>	*list*	

Returns

Type	Description
T	The object removed from the top of the Stack<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.stack-1).

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	The Stack<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.stack-1) is empty.

- Cobilas.Collections
  (Cobilas.Collections.html)
- Cobilas.Collections.Generic
  (Cobilas.Collections.Generic.ht
- Cobilas.IO.Atlf
  (Cobilas.IO.Atlf.html)
- Cobilas.IO.Atlf.Components
  (Cobilas.IO.Atlf.Components.ht
- Cobilas.IO.Atlf.Text
  (Cobilas.IO.Atlf.Text.html)
- Cobilas.IO.Serialization.
  Binary
  (Cobilas.IO.Serialization.Binary
- Cobilas.IO.Serialization.Json
  (Cobilas.IO.Serialization.Json.h
- Cobilas.Numeric
  (Cobilas.Numeric.html)
- Cobilas.Numeric.Convert
  (Cobilas.Numeric.Convert.html
- Cobilas.Threading.Tasks
  (Cobilas.Threading.Tasks.html)
- System (System.html)
- System.Collections.Generic
  (System.Collections.Generic.ht
  - List_CB_Extension
    (System.Collections.Generic.List_CB
- System.IO (System.IO.html)
- System.Reflection
  (System.Reflection.html)
- System.Security.
  Cryptography
  (System.Security.Cryptography

QueuePeek<T>(List<T>)

Returns the object at the beginning of the Queue<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.queue-1) without removing it.

Declaration

```
public static T QueuePeek<T>(this List<T> list)
```

Parameters

Type	Name	Description
List (https://learn.microsoft.com/dotnet/api/system.collections.generic.list-1)<T>	*list*	

Returns

Type	Description
T	The object at the beginning of the Queue<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.queue-1).

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	The Queue<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.queue-1) is empty.

StackPeek<T>(List<T>)

Returns the object at the top of the Stack<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.stack-1) without removing it.

Declaration

```
public static T StackPeek<T>(this List<T> list)
```

Parameters

Type	Name	Description
List (https://learn.microsoft.com/dotnet/api/system.collections.generic.list-1) <T>	*list*	

Returns

Type	Description
T	The object at the top of the Stack<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.stack-1).

Type Parameters

Name	Description
T	

Exceptions

Type	Condition
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	The Stack<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.stack-1) is empty.

+ Cobilas.Collections (Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
- System.Collections.Generic (System.Collections.Generic.ht
  List_CB_Extension (System.Collections.Generic.List_CB
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptogra

Namespace System.IO

Classes

Filter by title

(Cobilas.Collections.Generic.htı

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

- System.IO (System.IO.html)

Stream_CB_Extension (System.IO.Stream_CB_Extension.ht

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptography

Stream_CB_Extension (System.IO.Stream_CB_Extension.html)

Grants more methods to the Stream (https://learn.microsoft.com/dotnet/api/system.io.stream) class.

Class Stream_CB_Extension

Grants more methods to the Stream (https://learn.microsoft.com/dotnet/api/system.io.stream) class.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ Stream_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).IO (https://learn.microsoft.com/dotnet/api/system.io)

Assembly: Cobilas.Core.dll

Syntax

```
public static class Stream_CB_Extension
```

Methods

GenerateGuid(Stream)

Generates a Guid (https://learn.microsoft.com/dotnet/api/system.guid) object from the current flow.

Declaration

```
public static Guid GenerateGuid(this Stream F)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.

Returns

+ Cobilas.Collections (Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
- System.IO (System.IO.html)
  - Stream_CB_Extension (System.IO.Stream_CB_Extension.ht
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptogra

Type	Description
Guid (https://learn.microsoft.com/dotnet/api/system.guid)	The method returns a Guid value by reading a copy of the current stream.

GetChars(Stream)

Gets an array of characters from the current stream.

Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding).UTF8 is used by default in the method.

Declaration

```
public static char[] GetChars(this Stream F)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.

Returns

Type	Description
char (https://learn.microsoft.com/dotnet/api/system.char)[]	

GetChars(Stream, Encoding)

Gets an array of characters from the current stream.

Declaration

```
public static char[] GetChars(this Stream F, Encoding encoding)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	The Encoding used to write to the current stream.

Returns

+ Cobilas.Collections (Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
- System.IO (System.IO.html)
  - Stream_CB_Extension (System.IO.Stream_CB_Extension.ht
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptogra

Type	Description
char (https://learn.microsoft.com/dotnet/api/system.char)[]	

GetString(Stream)

Gets a string from the current stream.

Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding).UTF8 is used by default in the method.

Declaration

```
public static string GetString(this Stream F)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

GetString(Stream, Encoding)

Gets a string from the current stream.

Declaration

```
public static string GetString(this Stream F, Encoding encoding)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	The Encoding used to write to the current stream.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Read(Stream)

When overridden in a derived class, reads a sequence of bytes from the current stream and advances the position within the stream by the number of bytes read.

Declaration

```
public static byte[] Read(this Stream F)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.

Returns

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

Exceptions

Type	Condition
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	
IOException (https://learn.microsoft.com/dotnet/api/system.io.ioexception)	
NotSupportedException (https://learn.microsoft.com/dotnet/api/system.notsupportedexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

Write(Stream, byte[])

When overridden in a derived class, writes a sequence of bytes to the current stream and advances the current position within this stream by the number of bytes written.

Declaration

```
public static void Write(this Stream F, byte[] bytes)
```

Parameters

+ Cobilas.Collections
(Cobilas.Collections.html)
+ Cobilas.Collections.Generic
(Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf
(Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components
(Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text
(Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.
Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic
(System.Collections.Generic.ht
- System.IO (System.IO.html)
Stream_CB_Extension
(System.IO.Stream_CB_Extension.ht
+ System.Reflection
(System.Reflection.html)
+ System.Security.
Cryptography
(System.Security.Cryptography

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.
byte (https://learn.microsoft.com/dotnet/api/system.byte) []	*bytes*	An array of bytes. This method copies count bytes from buffer to the current stream.

Exceptions

Type	Condition
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	
IOException (https://learn.microsoft.com/dotnet/api/system.io.ioexception)	
NotSupportedException (https://learn.microsoft.com/dotnet/api/system.notsupportedexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

Write(Stream, char[])

When overridden in a derived class, writes a sequence of bytes to the current stream and advances the current position within this stream by the number of bytes written.

Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding).UTF8 is used by default in the method.

Declaration

```
public static void Write(this Stream F, char[] chars)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.
char (https://learn.microsoft.com/dotnet/api/system.char) []	*chars*	The list of characters that will be written to the current stream.

Exceptions

Type	Condition
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	
IOException (https://learn.microsoft.com/dotnet/api/system.io.ioexception)	
NotSupportedException (https://learn.microsoft.com/dotnet/api/system.notsupportedexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

Write(Stream, char[], Encoding)

When overridden in a derived class, writes a sequence of bytes to the current stream and advances the current position within this stream by the number of bytes written.

Declaration

```
public static void Write(this Stream F, char[] chars, Encoding encoding)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.
char (https://learn.microsoft.com/dotnet/api/system.char)[]	*chars*	The list of characters that will be written to the current stream.
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	The Encoding used to write to the current stream.

Exceptions

Type	Condition
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	
IOException (https://learn.microsoft.com/dotnet/api/system.io.ioexception)	

Type	Condition
NotSupportedException (https://learn.microsoft.com/dotnet/api/system.notsupportedexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

Write(Stream, string)

When overridden in a derived class, writes a sequence of bytes to the current stream and advances the current position within this stream by the number of bytes written.

Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding).UTF8 is used by default in the method.

Declaration

```
public static void Write(this Stream F, string text)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	The text that will be written in the current stream.

Write(Stream, string, Encoding)

When overridden in a derived class, writes a sequence of bytes to the current stream and advances the current position within this stream by the number of bytes written.

Declaration

```
public static void Write(this Stream F, string text, Encoding encoding)
```

Parameters

Type	Name	Description
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*F*	Target stream.
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	The text that will be written in the current stream.
Encoding (https://learn.microsoft.com/dotnet/api/system.text.encoding)	*encoding*	The Encoding used to write to the current stream.

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
- System.IO (System.IO.html)
  - Stream_CB_Extension (System.IO.Stream_CB_Extension.ht
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptogra

Exceptions

Type	Condition
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
IOException (https://learn.microsoft.com/dotnet/api/system.io.ioexception)	
NotSupportedException (https://learn.microsoft.com/dotnet/api/system.notsupportedexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

- System.IO (System.IO.html)

Stream_CB_Extension (System.IO.Stream_CB_Extension.ht

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptogra

Namespace System.Reflection

Classes

Filter by title

(Cobilas.Collections.Generic.htm

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htm

+ System.IO (System.IO.html)

- System.Reflection (System.Reflection.html)

FieldInfo_CB_Extension (System.Reflection.FieldInfo_CB_Ext

+ System.Security.Cryptography (System.Security.Cryptography

FieldInfo_CB_Extension (System.Reflection.FieldInfo_CB_Extension.html)

Grants more methods to FieldInfo class.

Class FieldInfo_CB_Extension

Grants more methods to FieldInfo class.

Filter by title

Inheritance Collections

(Cobilas.Collections.html)

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ FieldInfo_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Reflection (https://learn.microsoft.com/dotnet/api/system.reflection)

Assembly: Cobilas.Core.dll

Syntax

```
public static class FieldInfo_CB_Extension
```

Methods

IsBackingField(FieldInfo)

Determines whether the field is a background field used by automatic properties.

Declaration

```
public static bool IsBackingField(this FieldInfo F)
```

Parameters

Type	Name	Description
FieldInfo (https://learn.microsoft.com/dotnet/api/system.reflection.fieldinfo)	*F*	Target field.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns `true` when it is a background field and `false` when it is not a background field.

(Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

- System.Reflection (System.Reflection.html)

  FieldInfo_CB_Extension (System.Reflection.FieldInfo_CB_Ext

+ System.Security.Cryptography (System.Security.Cryptography

Namespace System.Security.Cryptography

Classes

Filter by title

+ **Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)**
+ **Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht**

Structs

+ **Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)**
+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
- **System.Security.Cryptography (System.Security.Cryptography**

  HashAlgorithm_CB_Extension (System.Security.Cryptography.Hasl

  HashString

HashAlgorithm_CB_Extension (System.Security.Cryptography.HashAlgorithm_CB_Extension.html)

This extension gives the HashAlgorithm class new methods.

HashString (System.Security.Cryptography.HashString.html)

The HashString structure can be used to transform a list of bytes with a minimum length of 16 into a string (https://learn.microsoft.com/dotnet/api/system.string) or Guid (https://learn.microsoft.com/dotnet/api/system.guid).

Class HashAlgorithm_CB_Extension

This extension gives the HashAlgorithm class new methods.

Filter by title

Inheritance

- object (https://learn.microsoft.com/dotnet/api/system.object)
  - HashAlgorithm_CB_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Security (https://learn.microsoft.com/dotnet/api/system.security).Cryptography (https://learn.microsoft.com/dotnet/api/system.security.cryptography)

Assembly: Cobilas.Core.dll

Syntax

```
public static class HashAlgorithm_CB_Extension
```

Methods

ComputeHash(HashAlgorithm, string)

Computes the hash value for the specified byte array.

Declaration

```
public static byte[] ComputeHash(this HashAlgorithm H, string FilePath)
```

Parameters

Type	Name	Description
HashAlgorithm (https://learn.microsoft.com/dotnet/api/system.security.cryptography.hashalgorithm)	*H*	Target object.
HashAlgorithm_CB_Extension (System.Security.Cryptography.Has		

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*FilePath*	The full path of the file.

Returns

Type	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)[]	The computed hash code.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
PathTooLongException (https://learn.microsoft.com/dotnet/api/system.io.pathtoolongexception)	
DirectoryNotFoundException (https://learn.microsoft.com/dotnet/api/system.io.directorynotfoundexception)	
IOException (https://learn.microsoft.com/dotnet/api/system.io.ioexception)	
UnauthorizedAccessException (https://learn.microsoft.com/dotnet/api/system.unauthorizedaccessexception)	
FileNotFoundException (https://learn.microsoft.com/dotnet/api/system.io.filenotfoundexception)	
NotSupportedException (https://learn.microsoft.com/dotnet/api/system.notsupportedexception)	
SecurityException (https://learn.microsoft.com/dotnet/api/system.security.securityexception)	

ComputeHashToString(HashAlgorithm, byte[])

Computes the hash value for the specified byte array.

Declaration

```
public static HashString ComputeHashToString(this HashAlgorithm H, byte[] buffer)
```

Parameters

Type	Name	Description
HashAlgorithm (https://learn.microsoft.com/dotnet/api/system.security.cryptography.hashalgorithm)	*H*	Target object.
byte (https://learn.microsoft.com/dotnet/api/system.byte)[]	*buffer*	The input to compute the hash code for.

Returns

Type	Description
HashString (System.Security.Cryptography.HashString.html)	The computed hash code for string.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

ComputeHashToString(HashAlgorithm, byte[], int, int)

Computes the hash value for the specified region of the specified byte array.

Declaration

```
public static HashString ComputeHashToString(this HashAlgorithm H, byte[] buffer, int offse
t, int count)
```

Parameters

Type	Name	Description
HashAlgorithm (https://learn.microsoft.com/dotnet/api/system.security.cryptography.hashalgorithm)	*H*	Target object.
byte (https://learn.microsoft.com/dotnet/api/system.byte)[]	*buffer*	The input to compute the hash code for.
int (https://learn.microsoft.com/dotnet/api/system.int32)	*offset*	The offset into the byte array from which to begin using data.
int (https://learn.microsoft.com/dotnet/api/system.int32)	*count*	The number of bytes in the array to use as data.

Returns

Type	Description
HashString (System.Security.Cryptography.HashString.html)	The computed hash code for string.

Exceptions

Type	Condition
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ArgumentOutOfRangeException (https://learn.microsoft.com/dotnet/api/system.argumentoutofrangeexception)	

Type	Condition
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

ComputeHashToString(HashAlgorithm, Stream)

Computes the hash value for the specified Stream (https://learn.microsoft.com/dotnet/api/system.io.stream) object.

Declaration

```
public static HashString ComputeHashToString(this HashAlgorithm H, Stream inputStream)
```

Parameters

Type	Name	Description
HashAlgorithm (https://learn.microsoft.com/dotnet/api/system.security.cryptography.hashalgorithm)	*H*	Target object.
Stream (https://learn.microsoft.com/dotnet/api/system.io.stream)	*inputStream*	The input to compute the hash code for.

Returns

Type	Description
HashString (System.Security.Cryptography.HashString.html)	The computed hash code for string.

Exceptions

Type	Condition
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	

ComputeHashToString(HashAlgorithm, string)

Computes the hash value for the specified byte array.

Declaration

```
public static HashString ComputeHashToString(this HashAlgorithm H, string FilePath)
```

Parameters

HashAlgorithm_CB_Extension (System.Security.Cryptography.Hash

HashString

Type	Name	Description
HashAlgorithm (https://learn.microsoft.com/dotnet/api/system.security.cryptography.hashalgorithm)	*H*	Target object.
string (https://learn.microsoft.com/dotnet/api/system.string)	*FilePath*	The full path of the file.

Returns

Type	Description
HashString (System.Security.Cryptography.HashString.html)	The computed hash code for string.

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	
ObjectDisposedException (https://learn.microsoft.com/dotnet/api/system.objectdisposedexception)	
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	
PathTooLongException (https://learn.microsoft.com/dotnet/api/system.io.pathtoolongexception)	
DirectoryNotFoundException (https://learn.microsoft.com/dotnet/api/system.io.directorynotfoundexception)	
IOException (https://learn.microsoft.com/dotnet/api/system.io.ioException)	
UnauthorizedAccessException (https://learn.microsoft.com/dotnet/api/system.unauthorizedaccessexception)	
FileNotFoundException (https://learn.microsoft.com/dotnet/api/system.io.filenotfoundexception)	
NotSupportedException (https://learn.microsoft.com/dotnet/api/system.notsupportedexception)	
SecurityException (https://learn.microsoft.com/dotnet/api/system.security.securityexception)	

+ Cobilas.Collections (Cobilas.Collections.html)

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.htm

+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.htm

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htm

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

- System.Security.Cryptography (System.Security.Cryptography

HashAlgorithm_CB_Extension (System.Security.Cryptography.Hash
HashString

Struct HashString

The HashString structure can be used to transform a list of bytes with a minimum length of 16 into a string (https://learn.microsoft.com/dotnet/api/system.string) or Guid (https://learn.microsoft.com/dotnet/api/system.guid).

Implements

IEquatable (https://learn.microsoft.com/dotnet/api/system.iequatable-1)<HashString (System.Security.Cryptography.HashString.html)>
IComparable (https://learn.microsoft.com/dotnet/api/system.icomparable-1)<HashString (System.Security.Cryptography.HashString.html)>
IEquatable (https://learn.microsoft.com/dotnet/api/system.iequatable-1)<string (https://learn.microsoft.com/dotnet/api/system.string)>
IFormattable (https://learn.microsoft.com/dotnet/api/system.iformattable)

Inherited Members

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Security (https://learn.microsoft.com/dotnet/api/system.security).Cryptography (https://learn.microsoft.com/dotnet/api/system.security.cryptography)

Assembly: Cobilas.Core.dll

Syntax

```
public readonly struct HashString : IEquatable<HashString>, IComparable<HashString>, IEquata
ble<string>, IFormattable
```

Constructors

HashString(byte[])

Initializes a HashString (System.Security.Cryptography.HashString.html) object using a list of bytes with a minimum length of 16.

Declaration

```
public HashString(byte[] hash)
```

Parameters

HashAlgorithm_CB_Extension (System.Security.Cryptography.Hash
HashString

Type	Name	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)[]	*hash*	

Exceptions

Type	Condition
ArgumentNullException (https://learn.microsoft.com/dotnet/api/system.argumentnullexception)	The hash parameter cannot be null.
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	The hash parameter cannot have a length shorter than 16.

Fields

Empty

A read-only instance of type HashString (System.Security.Cryptography.HashString.html) whose value is all zero.

Declaration

```
public static readonly HashString Empty
```

Field Value

Type	Description
HashString (System.Security.Cryptography.HashString.html)	

Methods

CompareTo(HashString)

Compares this instance to a specified HashString (System.Security.Cryptography.HashString.html) object and returns an indication of their relative values.

Declaration

```
public int CompareTo(HashString other)
```

Parameters

Type	Name
HashAlgorithm_CB_Extension (System.Security.Cryptography.HashAlgorithm_CB_Extension.html)	*hash*

Type	Name	Description
HashString (System.Security.Cryptography.HashString.html)	*other*	An object to compare to this instance.

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	A signed number indicating the relative values of this instance and value. Return value Description A negative integer This instance is less than value. Zero This instance is equal to value. A positive integer This instance is greater than value.

Equals(object?)

Indicates whether this instance and a specified object are equal.

Declaration

```
public override bool Equals(object? obj)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*obj*	The object (https://learn.microsoft.com/dotnet/api/system.object) to compare with the current instance.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	true if obj and this instance are the same type and represent the same value; otherwise, false.

Overrides

ValueType.Equals(object) (https://learn.microsoft.com/dotnet/api/system.valuetype.equals)

Equals(HashString)

Indicates whether the current object is equal to another object of the same type.

Declaration

```
public bool Equals(HashString other)
```

Parameters

HashAlgorithm_CB_Extension (System.Security.Cryptography.HashAlgorithm_CB_Extension.html)

Type	Name	Description
HashString (System.Security.Cryptography.HashString.html)	*other*	An object to compare with this object.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	true if the current object is equal to the other parameter; otherwise, false.

Equals(string?)

Indicates whether the current object is equal to another object of the same type.

Declaration

```
public bool Equals(string? other)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*other*	An object to compare with this object.

Use Guid (https://learn.microsoft.com/dotnet/api/system.guid).ToString() or convert a list of bytes to a string (https://learn.microsoft.com/dotnet/api/system.string) using a StringBuilder (https://learn.microsoft.com/dotnet/api/system.text.stringbuilder) or similar.

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	true if the current object is equal to the other parameter; otherwise, false.

GetHashCode()

Returns the hash code for this instance.

Declaration

```
public override int GetHashCode()
```

Returns

+ Cobilas.Collections.html)
+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
- System.Security.Cryptography (System.Security.Cryptography
  - HashAlgorithm_CB_Extension (System.Security.Cryptography.Hash
  - HashString

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	A 32-bit signed integer that is the hash code for this instance.

Overrides

ValueType.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.valuetype.gethashcode)

ToString()

Returns a string representation of the value of this instance in registry format.

Declaration

```
public override string ToString()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	The value of this Guid (https://learn.microsoft.com/dotnet/api/system.guid), formatted by using the "D" format specifier as follows: `xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx` where the value of the GUID is represented as a series of lowercase hexadecimal digits in groups of 8, 4, 4, 4, and 12 digits and separated by hyphens. An example of a return value is "382c74c3-721d-4f34-80e5-57657b6bbc27". To convert the hexadecimal digits from a through f to uppercase, call the System.String.ToUpper method on the returned string.

Overrides

ValueType.ToString() (https://learn.microsoft.com/dotnet/api/system.valuetype.tostring)

ToString(String)

Returns a string representation of the value of this Guid (https://learn.microsoft.com/dotnet/api/system.guid) instance, according to the provided format specifier.

Declaration

```
public string ToString(string format)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*format*	A single format specifier that indicates how to format the value of this Guid (https://learn.microsoft.com/dotnet/api/system.guid). The format parameter can be "N", "D", "B", "P", or "X". If format is null or an empty string (""), "D" is used.

+ Cobilas.Collections.Generic (Cobilas.Collections.Generic.ht
+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)
+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht
+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)
+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
- System.Security.Cryptography (System.Security.Cryptography
  - HashAlgorithm_CB_Extension (System.Security.Cryptography.Hash
    - HashString

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	The value of this Guid (https://learn.microsoft.com/dotnet/api/system.guid), represented as a series of lowercase hexadecimal digits in the specified format.

Exceptions

Type	Condition
FormatException (https://learn.microsoft.com/dotnet/api/system.formatexception)	The value of format is not null, an empty string (""), "N", "D", "B", "P", or "X".

ToString(string?, IFormatProvider?)

Returns a string representation of the value of this instance of the Guid (https://learn.microsoft.com/dotnet/api/system.guid) class, according to the provided format specifier and culture-specific format information.

Declaration

```
public string ToString(string? format, IFormatProvider? formatProvider)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*format*	A single format specifier that indicates how to format the value of this Guid (https://learn.microsoft.com/dotnet/api/system.guid). The format parameter can be "N", "D", "B", "P", or "X". If format is null or an empty string ("""), "D" is used.
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*formatProvider*	(Reserved) An object that supplies culture-specific formatting information.

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	The value of this Guid (https://learn.microsoft.com/dotnet/api/system.guid), represented as a series of lowercase hexadecimal digits in the specified format.

Operators

explicit operator Guid(HashString)

Explicit conversion from HashString (System.Security.Cryptography.HashString.html) object to Guid (https://learn.microsoft.com/dotnet/api/system.guid).

Declaration

```
public static explicit operator Guid(HashString hash)
```

Parameters

Type	Name	Description
HashString (System.Security.Cryptography.HashString.html)	*hash*	

Returns

Type	Description
Guid (https://learn.microsoft.com/dotnet/api/system.guid)	

implicit operator string(HashString)

Implicit conversion from HashString (System.Security.Cryptography.HashString.html) to string (https://learn.microsoft.com/dotnet/api/system.string) type.

Declaration

```
public static implicit operator string(HashString hash)
```

Parameters

Type	Name	Description
HashString (System.Security.Cryptography.HashString.html)	*hash*	

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Implements

IEquatable<T> (https://learn.microsoft.com/dotnet/api/system.iequatable-1)
IComparable<T> (https://learn.microsoft.com/dotnet/api/system.icomparable-1)
IEquatable<T> (https://learn.microsoft.com/dotnet/api/system.iequatable-1)
IFormattable (https://learn.microsoft.com/dotnet/api/system.iformattable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

(Cobilas.Collections.html)

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+ Cobilas.IO.Atlf (Cobilas.IO.Atlf.html)

+ Cobilas.IO.Atlf.Components (Cobilas.IO.Atlf.Components.ht

+ Cobilas.IO.Atlf.Text (Cobilas.IO.Atlf.Text.html)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

- System.Security.Cryptography (System.Security.Cryptography

HashAlgorithm_CB_Extension (System.Security.Cryptography.Has
HashString

Namespace System.Xml

Classes

Filter by title

CB_XML_Extension (System.Xml.CB_XML_Extension.html)

Extension that adds reading and writing functions for XML.

XMLIRW (System.Xml.XMLIRW.html)

Base class for IRW class.

XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)

Represents an XML element of type Attribute.

XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Represents an XML element of type CDATA.

XMLIRWComment (System.Xml.XMLIRWComment.html)

Represents an XML element of type Comment.

XMLIRWDeclaration (System.Xml.XMLIRWDeclaration.html)

Represents an xml declaration.

XMLIRWDocType (System.Xml.XMLIRWDocType.html)

Represents an XML element of type DocType.

XMLIRWElement (System.Xml.XMLIRWElement.html)

XML improved reader and writer element.

XMLIRWNull (System.Xml.XMLIRWNull.html)

This class represents a null XMLIRW object.

XMLIRWProcessingInstruction (System.Xml.XMLIRWProcessingInstruction.html)

Represents an XML element of type ProcessingInstruction.

XMLIRWText (System.Xml.XMLIRWText.html)

Represents XML text.

XMLIRWTextNull (System.Xml.XMLIRWTextNull.html)

This class is a representation of a null XMLIRW text.

Interfaces

ITextValue (System.Xml.ITextValue.html)

Interface for text XMLIRW elements.

IXMLIRWCollection (System.Xml.IXMLIRWCollection.html)

Represents a collection of XMLIRW.

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class CB_XML_Extension

Extension that adds reading and writing functions for XML.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)

↳ CB_XML_Extension

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system.object,system.object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.Core.dll

Syntax

```
public static class CB_XML_Extension
```

Methods

ReadXMLIRW(XmlReader)

Reads an XML document and returns an XMLIRWElement (System.Xml.XMLIRWElement.html).

Declaration

```
public static XMLIRWElement ReadXMLIRW(this XmlReader reader)
```

Parameters

Type	Name	Description
XmlReader (https://learn.microsoft.com/dotnet/api/system.xml.xmlreader)	*reader*	

Returns

Type	Description
XMLIRWElement (System.Xml.XMLIRWElement.html)	

WriterXMLIRW(XmlWriter, XMLIRWElement)

Uses an XMLIRWElement (System.Xml.XMLIRWElement.html) to write to the xml document.

Declaration

```
public static void WriterXMLIRW(this XmlWriter writer, XMLIRWElement element)
```

Parameters

Type	Name	Description
XmlWriter (https://learn.microsoft.com/dotnet/api/system.xml.xmlwriter)	*writer*	
XMLIRWElement (System.Xml.XMLIRWElement.html)	*element*	

Exceptions

Type	Condition
InvalidOperationException (https://learn.microsoft.com/dotnet/api/system.invalidoperationexception)	The Settings property of the xml is null.

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Interface ITextValue

Interface for text XMLIRW elements.

Filter by title

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)
Assembly: Cobilas.Core.dll

Syntax

```
public interface ITextValue
```

Properties

Text

Returns or sets the text of the XMLIRW element.

Declaration

```
XMLIRWText Text { get; set; }
```

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type__System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_Sy

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
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ITextValue (System.Xml.ITextValue.html)
XMLIRWCollection (System.Xml.XMLIRWCollection.htm
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

stem_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Interface IXMLIRWCollection

Represents a collection of XMLIRW.

Filter by title

Inherited Members

IEnumerable<XMLIRW>.GetEnumerator() (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1.getenumerator)

IDisposable.Dispose() (https://learn.microsoft.com/dotnet/api/system.idisposable.dispose)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.Serial

Syntax

```
public interface IXMLIRWCollection : IEnumerable<XMLIRW>, IEnumerable, IDisposable
```

Properties

AttributeCount

Gets the count of attributes on the element.

Declaration

```
int AttributeCount { get; }
```

Property Value

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Attributes

Gets the attributes on the element.

Declaration

```
IEnumerable<XMLIRW> Attributes { get; }
```

Property Value

Type	Description
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1) < XMLIRW (System.Xml.XMLIRW.html) >	

IsEmpty

Checks whether the element has sub-elements or attributes.

Declaration

```
bool IsEmpty { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

NoAttributes

Checks whether the element has attributes.

Declaration

```
bool NoAttributes { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

NoElements

Checks whether the element has sub-elements.

Declaration

```
bool NoElements { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

ValueIsEmpty

Checks whether the element has a text value.

Declaration

```
bool ValueIsEmpty { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Methods

Add(XMLIRW)

Adds an XMLIRW element.

Declaration

```
bool Add(XMLIRW element)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*element*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns `true` when the element is added XMLIRW.

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_Syste

m_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
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+ **System.IO (System.IO.html)**
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  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRW

Base class for IRW class.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)

↳ XMLIRW

↳ XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)

↳ XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

↳ XMLIRWComment (System.Xml.XMLIRWComment.html)

↳ XMLIRWDeclaration (System.Xml.XMLIRWDeclaration.html)

↳ XMLIRWDocType (System.Xml.XMLIRWDocType.html)

↳ XMLIRWElement (System.Xml.XMLIRWElement.html)

↳ XMLIRWNull (System.Xml.XMLIRWNull.html)

↳ XMLIRWProcessingInstruction (System.Xml.XMLIRWProcessingInstruction.html)

↳ XMLIRWText (System.Xml.XMLIRWText.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.Core.dll

Syntax

```
public abstract class XMLIRW : IDisposable
```

Constructors

XMLIRW()

Creates a new instance of the XMLIRW element.

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
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+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htm
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
protected XMLIRW()
```

XMLIRW(string)

Creates a new instance of the XMLIRW element.

Declaration

```
protected XMLIRW(string name)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	

XMLIRW(string, XmlNodeType)

Creates a new instance of the XMLIRW element.

Declaration

```
protected XMLIRW(string name, XmlNodeType type)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	*type*	

XMLIRW(XMLIRW, string)

Creates a new instance of the XMLIRW element.

Declaration

```
protected XMLIRW(XMLIRW parent, string name)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
CB_XML_Extension (System.Xml.CB_XML_Extension.htm
ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

XMLIRW(XMLIRW, string, XmlNodeType)

Creates a new instance of the XMLIRW element.

Declaration

```
protected XMLIRW(XMLIRW parent, string name, XmlNodeType type)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	*type*	

Properties

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public abstract XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public abstract XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Methods

Dispose()

Disposes the resources of the XMLIRW element.

Declaration

```
public abstract void Dispose()
```

ToString()

Creates a string (https://learn.microsoft.com/dotnet/api/system.string) representation of the object (https://learn.microsoft.com/dotnet/api/system.object).

Declaration

```
public override string? ToString()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htı

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptography

- System.Xml (System.Xml.html)

CB_XML_Extension
(System.Xml.CB_XML_Extension.htm
ITextValue
(System.Xml.ITextValue.html)
IXMLIRWCollection
(System.Xml.IXMLIRWCollection.htr
XMLIRW
(System.Xml.XMLIRW.html)
XMLIRWAttribute
(System.Xml.XMLIRWAttribute.html
XMLIRWCDATA
(System.Xml.XMLIRWCDATA.html)

Class XMLIRWAttribute

Represents an XML element of type Attribute.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)
↳ XMLIRW (System.Xml.XMLIRW.html)
↳ XMLIRWAttribute

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
ITextValue (System.Xml.ITextValue.html)

Inherited Members

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: System.Xml.dll

Syntax

```
public class XMLIRWAttribute : XMLIRW, IDisposable, ITextValue
```

Constructors

XMLIRWAttribute(string, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWAttribute(string name, object value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htn
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

XMLIRWAttribute(XMLIRWElement, string, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWAttribute(XMLIRWElement parent, string name, object value)
```

Parameters

Type	Name	Description
XMLIRWElement (System.Xml.XMLIRWElement.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

Properties

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - IToValue (System.Xml.IToValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type		Description
XMLIRW (System.Xml.XMLIRW.html)		

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Text

Recursively sets the text of the XMLIRW element.

Declaration

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

Property Value

Type		Description
XMLIRWText (System.Xml.XMLIRWText.html)		

Type

Recursively sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type		Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)		

Overrides

XMLIRW.Type (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Methods

Dispose()

Discard the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Dispose(bool)

Discard the resources of the XMLIRW element.

Declaration

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~XMLIRWAttribute()

Called when the object is finished.

Declaration

```
protected ~XMLIRWAttribute()
```

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

ITextValue (System.Xml.ITextValue.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_Syste

m_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRWCDATA

Represents an XML element of type CDATA.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)
↳ XMLIRW (System.Xml.XMLIRW.html)
↳ XMLIRWCDATA

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
ITextValue (System.Xml.ITextValue.html)

Inherited Members

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: System.Xml.dll

Syntax

```
public class XMLIRWCDATA : XMLIRW, IDisposable, ITextValue
```

Constructors

XMLIRWCDATA(object?)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWCDATA(object? value)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

XMLIRWCDATA(XMLIRW, object?)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWCDATA(XMLIRW parent, object? value)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

Properties

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Text

Returns or sets the text of the XMLIRW element.

Declaration

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

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

Type

Returns or sets the type of this XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRW.Type (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Methods

Dispose()

Discard the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Dispose(bool)

Discard the resources of the XMLIRW element.

Declaration

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~XMLIRWCDATA()

Called when the object is finished.

Declaration

```
protected override void ~XMLIRWCDATA()
```

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
ITextValue (System.Xml.ITextValue.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htl
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRWComment

Represents an XML element of type Comment.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ XMLIRW (System.Xml.XMLIRW.html)

↳ XMLIRWComment

Implements

ITextValue (System.Xml.ITextValue.html)

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: System.Xml.dll

Syntax

```
public class XMLIRWComment : XMLIRW, ITextValue, IDisposable
```

Constructors

XMLIRWComment(object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWComment(object value)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptography

- System.Xml (System.Xml.html)

CB_XML_Extension (System.Xml.CB_XML_Extension.htm

ITextValue (System.Xml.ITextValue.html)

IXMLIRWCollection (System.Xml.IXMLIRWCollection.htm

XMLIRW (System.Xml.XMLIRW.html)

XMLIRWAttribute (System.Xml.XMLIRWAttribute.html

XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

XMLIRWComment(XMLIRW, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWComment(XMLIRW parent, object value)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

Properties

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Text

Returns or sets the text of the XMLIRW element.

Declaration

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

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRW.Type (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Methods

Dispose()

Discard the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Dispose(bool)

Discard the resources of the XMLIRW element.

Declaration

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~XMLIRWComment()

Called when the object is finished.

Declaration

```
protected override void Finalize()
```

Implements

ITextValue (System.Xml.ITextValue.html)
IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htm
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
CB_XML_Extension (System.Xml.CB_XML_Extension.htm
ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.htm
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRWDeclaration

Represents an xml declaration.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)

↳ XMLIRW (System.Xml.XMLIRW.html)

↳ XMLIRWDeclaration

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.Core.dll

Syntax

```
public class XMLIRWDeclaration : XMLIRW, IDisposable
```

Constructors

XMLIRWDeclaration()

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDeclaration()
```

XMLIRWDeclaration(string)

Creates a new instance of the XMLIRW element.

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htm
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
CB_XML_Extension (System.Xml.CB_XML_Extension.htm
ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.htm
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
public XMLIRWDeclaration(string version)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	

XMLIRWDeclaration(string, string)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDeclaration(string version, string encoding)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*encoding*	

XMLIRWDeclaration(string, string, string)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDeclaration(string version, string encoding, string standalone)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*encoding*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*standalone*	

XMLIRWDeclaration(XMLIRW)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDeclaration(XMLIRW parent)
```

Parameters

Type		Name	Description
XMLIRW (System.Xml.XMLIRW.html)		*parent*	

XMLIRWDeclaration(XMLIRW, string)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDeclaration(XMLIRW parent, string version)
```

Parameters

Type		Name	Description
XMLIRW (System.Xml.XMLIRW.html)		*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)		*version*	

XMLIRWDeclaration(XMLIRW, string, string)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDeclaration(XMLIRW parent, string version, string encoding)
```

Parameters

Type		Name	Description
XMLIRW (System.Xml.XMLIRW.html)		*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)		*version*	
string (https://learn.microsoft.com/dotnet/api/system.string)		*encoding*	

XMLIRWDeclaration(XMLIRW, string, string, string)

Creates a new instance of the XMLIRW element.

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.html)
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htn
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
public XMLIRWDeclaration(XMLIRW parent, string version, string encoding, string standalone)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*version*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*encoding*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*standalone*	

Properties

Encoding

Gets or sets the encoding level of the XML document.

Declaration

```
public string Encoding { get; protected set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Name

Returns or sets the name of the XMLIRW object.

Declaration

```
publIc override string Name { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Standalone

Gets or sets the value of the standalone attribute.

Declaration

```
public string Standalone { get; protected set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRW.Type (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Version

Gets the XML version of the document.

Declaration

```
public string Version { get; protected set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Methods

Dispose()

Disposes the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_Sy

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
+ **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

stem_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRWDocType

Represents an XML element of type DocType.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)
↳ XMLIRW (System.Xml.XMLIRW.html)
↳ XMLIRWDocType

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)
Assembly: Cobilas.Core.dll

Syntax

```
public class XMLIRWDocType : XMLIRW, IDisposable
```

Constructors

XMLIRWDocType(string, object?, object?, object?)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDocType(string name, object? pudid, object? sysid, object? subset)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*pudid*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*sysid*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*subset*	

XMLIRWDocType(XMLIRW, string, object?, object?, object?)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWDocType(XMLIRW parent, string name, object? pudid, object? sysid, object? subset)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*pudid*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*sysid*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*subset*	

Properties

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htl
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
CB_XML_Extension (System.Xml.CB_XML_Extension.htm
ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

PubID

Gets the value of the public identifier on the DOCTYPE declaration.

Declaration

```
public XMLIRWText PubID { get; }
```

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

SubSet

Gets the value of the document type definition (DTD) internal subset on the DOCTYPE declaration.

Declaration

```
public XMLIRWText SubSet { get; }
```

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

SysID

Gets the value of the system identifier on the DOCTYPE declaration.

Declaration

```
public XMLIRWText SysID { get; }
```

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRWType (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Methods

Dispose()

Discard the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRWDispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Dispose(bool)

Discard the resources of the XMLIRW element.

Declaration

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~XMLIRWDocType()

Called when the object is finished.

Declaration

```
protected ~XMLIRWDocType()
```

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)

Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System.Boolean_)

Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)

Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System.Boolean_)

Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - TextValue (System.Xml.TextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRWElement

XML improved reader and writer element.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ XMLIRW (System.Xml.XMLIRW.html)

↳ XMLIRWElement

Implements

ITextValue (System.Xml.ITextValue.html)

IXMLIRWCollection (System.Xml.IXMLIRWCollection.html)

IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<XMLIRW (System.Xml.XMLIRW.html)>

IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.Core.dll

Syntax

```
public class XMLIRWElement : XMLIRW, ITextValue, IXMLIRWCollection, IEnumerable<XMLIRW>, IEn
umerable, IDisposable
```

Constructors

XMLIRWElement(string)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWElement(string name)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	

XMLIRWElement(string, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWElement(string name, object value)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

XMLIRWElement(string, object, params XMLIRW[])

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWElement(string name, object value, params XMLIRW[] itens)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	
XMLIRW (System.Xml.XMLIRW.html)[]	*itens*	

XMLIRWElement(string, params XMLIRW[])

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWElement(string name, params XMLIRW[] itens)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
XMLIRW (System.Xml.XMLIRW.html)[]	*itens*	

XMLIRWElement(XMLIRW, string, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWElement(XMLIRW parent, string name, object value)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

XMLIRWElement(XMLIRW, string, object, params XMLIRW[])

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWElement(XMLIRW parent, string name, object value, params XMLIRW[] itens)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	
XMLIRW (System.Xml.XMLIRW.html)[]	*itens*	

XMLIRWElement(XMLIRW, string, params XMLIRW[])

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWElement(XMLIRW parent, string name, params XMLIRW[] itens)
```

Parameters

Type		Name	Description
XMLIRW (System.Xml.XMLIRW.html)		*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)		*name*	
XMLIRW (System.Xml.XMLIRW.html)[]		*itens*	

Properties

AttributeCount

Gets the count of attributes on the element.

Declaration

```
public int AttributeCount { get; }
```

Property Value

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

Attributes

Gets the attributes on the element.

Declaration

```
public IEnumerable<XMLIRW> Attributes { get; }
```

Property Value

Type		Description
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1) < XMLIRW (System.Xml.XMLIRW.html) >		

IsEmpty

Checks whether the element has sub-elements or attributes.

Declaration

```
public bool IsEmpty { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Name

Returns or sets the name of the XMLIRW object.

Declaration

```
public System.Text.StringBuilder Name { get; set; }
```

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

NoAttributes

Checks whether the element has attributes.

Declaration

```
public bool NoAttributes { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

NoElements

Checks whether the element has sub-elements.

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
public bool NoElements { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Text

Returns or sets the text of the XMLIRW element.

Declaration

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

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```


+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htn
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRW.Type (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

ValueIsEmpty

Checks whether the element has a text value.

Declaration

```
public bool ValueIsEmpty { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Methods

Add(XMLIRW)

Adds a new XMLIRW element.

Declaration

```
public void Add(XMLIRW element)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*element*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	Returns `true` when the element is added XMLIRW.

Dispose()

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Discard the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Dispose(bool)

Discard the resources of the XMLIRW element.

Declaration

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~XMLIRWElement()

Called when the object is finished.

Declaration

```
protected ~XMLIRWElement()
```

GetEnumerator()

Returns an enumerator that iterates through a collection.

Declaration

```
public IEnumerator<XMLIRW> GetEnumerator()
```

Returns

Type	Description
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)<XMLIRW (System.Xml.XMLIRW.html)>	

ToString()

Creates a string (https://learn.microsoft.com/dotnet/api/system.string) representation of the object (https://learn.microsoft.com/dotnet/api/system.object).

Declaration

```
public override string ToString()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)

Implements

ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.html)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)
IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.htı**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
+ **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htr
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRWNull

This class represents a null XMLIRW object.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ XMLIRW (System.Xml.XMLIRW.html)
↳ XMLIRWNull

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
INullObject (Cobilas.INullObject.html)

Inherited Members

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.Core.dll

Syntax

```
public sealed class XMLIRWNull : XMLIRW, IDisposable, INullObject
```

Properties

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

Null

Returns a representation of a null XMLIRW object.

Declaration

```
public static XMLIRWNull Null { get; }
```

Property Value

Type	Description
XMLIRWNull (System.Xml.XMLIRWNull.html)	

Parent

Returns or sets the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRW.Type (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Methods

Dispose()

Discard the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
INullObject (Cobilas.INullObject.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.htl

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptography

+ System.Xml (System.Xml.html)

CB_XML_Extension
(System.Xml.CB_XML_Extension.htm
TextValue
(System.Xml.TextValue.html)
IXMLIRWCollection
(System.Xml.IXMLIRWCollection.htr
XMLIRW
(System.Xml.XMLIRW.html)
XMLIRWAttribute
(System.Xml.XMLIRWAttribute.html
XMLIRWCDATA
(System.Xml.XMLIRWCDATA.html)

Class XMLIRWProcessingInstruction

Represents an XML element of type ProcessingInstruction.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)

↳ XMLIRW (System.Xml.XMLIRW.html)

↳ XMLIRWProcessingInstruction

Implements

ITextValue (System.Xml.ITextValue.html)

IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)<XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)>

IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Inherited Members

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.Core.dll

Syntax

```
public class XMLIRWProcessingInstruction : XMLIRW, ITextValue, IEnumerable<XMLIRWAttribute>,
IEnumerable, IDisposable
```

Constructors

XMLIRWProcessingInstruction(string, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWProcessingInstruction(string name, object value)
```


+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
CB_XML_Extension (System.Xml.CB_XML_Extension.htm
ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.htm
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

XMLIRWProcessingInstruction(string, XMLIRWAttribute[])

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWProcessingInstruction(string name, XMLIRWAttribute[] attributes)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)[]	*attributes*	

XMLIRWProcessingInstruction(XMLIRW, string, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWProcessingInstruction(XMLIRW parent, string name, object value)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*value*	

XMLIRWProcessingInstruction(XMLIRW, string, XMLIRWAttribute[])

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWProcessingInstruction(XMLIRW parent, string name, XMLIRWAttribute[] attributes)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)[]	*attributes*	

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Properties

AttributeCount

Returns the number of attributes in the list.

Declaration

```
public int AttributeCount { get; }
```

Property Value

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

IsAttributeList

Checks whether the value is a list of attributes.

Declaration

```
public bool IsAttributeList { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Text

Returns or sets the text of the XMLIRW element.

Declaration

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

Property Value

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRWType (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Methods

Dispose()

Discard the resources of the XMLIRW element.

Declaration

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

Dispose(bool)

Discard the resources of the XMLIRW element.

Declaration

```
protected virtual void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*disposing*	

~XMLIRWProcessingInstruction()

Called when the object is finished.

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htl
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
protected ~XMLIRWProcessingInstruction()
```

GetEnumerator()

Returns an enumerator that iterates through a collection.

Declaration

```
public IEnumerator<XMLIRWAttribute> GetEnumerator()
```

Returns

Type	Description
IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1)<XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)>	

Implements

ITextValue (System.Xml.ITextValue.html)
IEnumerable<T> (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1)
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)
IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary
(Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json
(Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric
(Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert
(Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks
(Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic
(System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection
(System.Reflection.html)
+ System.Security.
Cryptography
(System.Security.Cryptography
+ System.Xml
(System.Xml.html)
CB_XML_Extension
(System.Xml.CB_XML_Extension.htm
ITextValue
(System.Xml.ITextValue.html)
XMLIRWCollection
(System.Xml.IXMLIRWCollection.htr
XMLIRW
(System.Xml.XMLIRW.html)
XMLIRWAttribute
(System.Xml.XMLIRWAttribute.html
XMLIRWCDATA
(System.Xml.XMLIRWCDATA.html)

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
- **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Class XMLIRWText

Represents XML text.

Filter by title

Inheritance

object (https://learn.microsoft.com/dotnet/api/system.object)
↳ XMLIRW (System.Xml.XMLIRW.html)
↳ XMLIRWText
↳ XMLIRWTextNull (System.Xml.XMLIRWTextNull.html)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IConvertible (https://learn.microsoft.com/dotnet/api/system.iconvertible)

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: System.Xml.dll

Syntax

```
public class XMLIRWText : XMLIRW, IDisposable, IConvertible
```

Constructors

XMLIRWText(object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWText(object textValue)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*textValue*	

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptography

- System.Xml (System.Xml.html)

CB_XML_Extension (System.Xml.CB_XML_Extension.htm

ITextValue (System.Xml.ITextValue.html)

IXMLIRWCollection (System.Xml.IXMLIRWCollection.htm

XMLIRW (System.Xml.XMLIRW.html)

XMLIRWAttribute (System.Xml.XMLIRWAttribute.html

XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

XMLIRWText(XMLIRW, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWText(XMLIRW parent, object textValue)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*textValue*	

XMLIRWText(XMLIRW, object, string, XmlNodeType)

Creates a new instance of the XMLIRW element.

Declaration

```
protected XMLIRWText(XMLIRW parent, object textValue, string name, XmlNodeType type)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*textValue*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	*type*	

Fields

textValue

The value of the XML text.

Declaration

```
protected object textValue
```

Field Value

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htr
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	

Properties

IsNull

Check if the value is null.

Declaration

```
public virtual bool IsNull { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.Name (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Name)

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```


+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htl
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRW.Parent (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Parent)

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public System.Xml.XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRW.Type (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Type)

Value

The value of the XML text.

Declaration

```
public object Value { get; }
```

Property Value

Type	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	

Methods

Dispose()

Discard the resources of the XMLIRW element.

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
CB_XML_Extension (System.Xml.CB_XML_Extension.htm
ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
public override void Dispose()
```

Overrides

XMLIRW.Dispose() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_Dispose)

ToString()

Creates a string (https://learn.microsoft.com/dotnet/api/system.string) representation of the object (https://learn.microsoft.com/dotnet/api/system.object).

Declaration

```
public override string ToString()
```

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRW.ToString() (System.Xml.XMLIRW.html#System_Xml_XMLIRW_ToString)

ToString(IFormatProvider?)

Creates a string (https://learn.microsoft.com/dotnet/api/system.string) representation of the object (https://learn.microsoft.com/dotnet/api/system.object).

Declaration

```
public string ToString(IFormatProvider? provider)
```

Parameters

Type	Name	Description
IFormatProvider (https://learn.microsoft.com/dotnet/api/system.iformatprovider)	*provider*	

Returns

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Operators

explicit operator bool(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to bool (https://learn.microsoft.com/dotnet/api/system.boolean).

Declaration

```
public static explicit operator bool(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

explicit operator byte(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to byte (https://learn.microsoft.com/dotnet/api/system.byte).

Declaration

```
public static explicit operator byte(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	

explicit operator char[](XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to char (https://learn.microsoft.com/dotnet/api/system.char)[].

Declaration

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
public static explicit operator char[](XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
char (https://learn.microsoft.com/dotnet/api/system.char)[]	

explicit operator DateTime(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to DateTime (https://learn.microsoft.com/dotnet/api/system.datetime).

Declaration

```
public static explicit operator DateTime(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
DateTime (https://learn.microsoft.com/dotnet/api/system.datetime)	

explicit operator decimal(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to decimal (https://learn.microsoft.com/dotnet/api/system.decimal).

Declaration

```
public static explicit operator decimal(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
decimal (https://learn.microsoft.com/dotnet/api/system.decimal)	

explicit operator double(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to double (https://learn.microsoft.com/dotnet/api/system.double).

Declaration

```
public static explicit operator double(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	

explicit operator short(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to short (https://learn.microsoft.com/dotnet/api/system.int16).

Declaration

```
public static explicit operator short(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
short (https://learn.microsoft.com/dotnet/api/system.int16)	

explicit operator int(XMLIRWText)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htr
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to int (https://learn.microsoft.com/dotnet/api/system.int32).

Declaration

```
public static explicit operator int(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	

explicit operator long(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to long (https://learn.microsoft.com/dotnet/api/system.int64).

Declaration

```
public static explicit operator long(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	

explicit operator sbyte(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte).

Declaration

```
public static explicit operator sbyte(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte)	

explicit operator float(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to float (https://learn.microsoft.com/dotnet/api/system.single).

Declaration

```
public static explicit operator float(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
float (https://learn.microsoft.com/dotnet/api/system.single)	

explicit operator string(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to string (https://learn.microsoft.com/dotnet/api/system.string).

Declaration

```
public static explicit operator string(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

explicit operator ushort(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to ushort (https://learn.microsoft.com/dotnet/api/system.uint16).

Declaration

```
public static explicit operator ushort(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
ushort (https://learn.microsoft.com/dotnet/api/system.uint16)	

explicit operator uint(XMLIRWText)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to uint (https://learn.microsoft.com/dotnet/api/system.uint32).

Declaration

```
public static explicit operator uint(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
uint (https://learn.microsoft.com/dotnet/api/system.uint32)	

explicit operator ulong(XMLIRWText)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htn
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Provide a conversion from type XMLIRWText (System.Xml.XMLIRWText.html) to ulong (https://learn.microsoft.com/dotnet/api/system.uint64).

Declaration

```
public static explicit operator ulong(XMLIRWText text)
```

Parameters

Type	Name	Description
XMLIRWText (System.Xml.XMLIRWText.html)	*text*	

Returns

Type	Description
ulong (https://learn.microsoft.com/dotnet/api/system.uint64)	

implicit operator XMLIRWText(bool)

Provide a conversion from type bool (https://learn.microsoft.com/dotnet/api/system.boolean) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(bool text)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(byte)

Provide a conversion from type byte (https://learn.microsoft.com/dotnet/api/system.byte) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(byte text)
```

Parameters

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.ht
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htm
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Type	Name	Description
byte (https://learn.microsoft.com/dotnet/api/system.byte)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(char[])

Provide a conversion from type char (https://learn.microsoft.com/dotnet/api/system.char)[] to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(char[] text)
```

Parameters

Type	Name	Description
char (https://learn.microsoft.com/dotnet/api/system.char)[]	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(DateTime)

Provide a conversion from type DateTime (https://learn.microsoft.com/dotnet/api/system.datetime) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(DateTime text)
```

Parameters

Type	Name	Description
DateTime (https://learn.microsoft.com/dotnet/api/system.datetime)	*text*	

Returns

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
+ System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(decimal)

Provide a conversion from type decimal (https://learn.microsoft.com/dotnet/api/system.decimal) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(decimal text)
```

Parameters

Type	Name	Description
decimal (https://learn.microsoft.com/dotnet/api/system.decimal)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(double)

Provide a conversion from type double (https://learn.microsoft.com/dotnet/api/system.double) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(double text)
```

Parameters

Type	Name	Description
double (https://learn.microsoft.com/dotnet/api/system.double)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(short)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Provide a conversion from type short (https://learn.microsoft.com/dotnet/api/system.int16) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(short text)
```

Parameters

Type	Name	Description
short (https://learn.microsoft.com/dotnet/api/system.int16)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(int)

Provide a conversion from type int (https://learn.microsoft.com/dotnet/api/system.int32) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(int text)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(long)

Provide a conversion from type long (https://learn.microsoft.com/dotnet/api/system.int64) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(long text)
```

Parameters

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.html)
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.html)
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html)
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.html)
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography.html)
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.html)
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.html)
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Type	Name	Description
long (https://learn.microsoft.com/dotnet/api/system.int64)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(sbyte)

Provide a conversion from type sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(sbyte text)
```

Parameters

Type	Name	Description
sbyte (https://learn.microsoft.com/dotnet/api/system.sbyte)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(float)

Provide a conversion from type float (https://learn.microsoft.com/dotnet/api/system.single) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(float text)
```

Parameters

Type	Name	Description
float (https://learn.microsoft.com/dotnet/api/system.single)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(string)

Provide a conversion from type string (https://learn.microsoft.com/dotnet/api/system.string) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(string text)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(ushort)

Provide a conversion from type ushort (https://learn.microsoft.com/dotnet/api/system.uint16) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(ushort text)
```

Parameters

Type	Name	Description
ushort (https://learn.microsoft.com/dotnet/api/system.uint16)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(uint)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html)
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

Provide a conversion from type uint (https://learn.microsoft.com/dotnet/api/system.uint32) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(uint text)
```

Parameters

Type	Name	Description
uint (https://learn.microsoft.com/dotnet/api/system.uint32)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

implicit operator XMLIRWText(ulong)

Provide a conversion from type ulong (https://learn.microsoft.com/dotnet/api/system.uint64) to XMLIRWText (System.Xml.XMLIRWText.html).

Declaration

```
public static implicit operator XMLIRWText(ulong text)
```

Parameters

Type	Name	Description
ulong (https://learn.microsoft.com/dotnet/api/system.uint64)	*text*	

Returns

Type	Description
XMLIRWText (System.Xml.XMLIRWText.html)	

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IConvertible (https://learn.microsoft.com/dotnet/api/system.iconvertible)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)

Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)
Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security. Cryptography (System.Security.Cryptography

- System.Xml (System.Xml.html)

CB_XML_Extension
(System.Xml.CB_XML_Extension.htm
ITextValue
(System.Xml.ITextValue.html)
IXMLIRWCollection
(System.Xml.IXMLIRWCollection.htr
XMLIRW
(System.Xml.XMLIRW.html)
XMLIRWAttribute
(System.Xml.XMLIRWAttribute.html
XMLIRWCDATA
(System.Xml.XMLIRWCDATA.html)

Class XMLIRWTextNull

This class is a representation of a null XMLIRW text.

Filter by title

Inheritance

↳ object (https://learn.microsoft.com/dotnet/api/system.object)
↳ XMLIRW (System.Xml.XMLIRW.html)
↳ XMLIRWText (System.Xml.XMLIRWText.html)
↳ XMLIRWTextNull

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IConvertible (https://learn.microsoft.com/dotnet/api/system.iconvertible)
INullObject (Cobilas.INullObject.html)

Inherited Members

XMLIRWText.textValue (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_textValue)
XMLIRWText.Value (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_Value)
XMLIRWText.Dispose() (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_Dispose)
XMLIRWText.ToString() (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_ToString)
XMLIRWText.ToString(IFormatProvider) (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_ToString_System_IFormatProvider_)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: System (https://learn.microsoft.com/dotnet/api/system).Xml (https://learn.microsoft.com/dotnet/api/system.xml)

Assembly: Cobilas.core.dll

Syntax

```
public class XMLIRWTextNull : XMLIRWText, IDisposable, IConvertible, INullObject
```

Constructors

XMLIRWTextNull(object)

Creates a new instance of the XMLIRW element.

Declaration

+ **Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary**
+ **Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h**
+ **Cobilas.Numeric (Cobilas.Numeric.html)**
+ **Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html**
+ **Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)**
+ **System (System.html)**
+ **System.Collections.Generic (System.Collections.Generic.ht**
+ **System.IO (System.IO.html)**
+ **System.Reflection (System.Reflection.html)**
+ **System.Security.Cryptography (System.Security.Cryptography**
+ **System.Xml (System.Xml.html)**
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

```
public XMLIRWTextNull(object textValue)
```

Parameters

Type	Name	Description
object (https://learn.microsoft.com/dotnet/api/system.object)	*textValue*	

XMLIRWTextNull(XMLIRW, object)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWTextNull(XMLIRW parent, object textValue)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*textValue*	

XMLIRWTextNull(XMLIRW, object, string, XmlNodeType)

Creates a new instance of the XMLIRW element.

Declaration

```
public XMLIRWTextNull(XMLIRW parent, object textValue, string name, XmlNodeType type)
```

Parameters

Type	Name	Description
XMLIRW (System.Xml.XMLIRW.html)	*parent*	
object (https://learn.microsoft.com/dotnet/api/system.object)	*textValue*	
string (https://learn.microsoft.com/dotnet/api/system.string)	*name*	
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	*type*	

Properties

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary.
+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h
+ Cobilas.Numeric (Cobilas.Numeric.html)
+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html
+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)
+ System (System.html)
+ System.Collections.Generic (System.Collections.Generic.htı
+ System.IO (System.IO.html)
+ System.Reflection (System.Reflection.html)
+ System.Security.Cryptography (System.Security.Cryptography
- System.Xml (System.Xml.html)
  - CB_XML_Extension (System.Xml.CB_XML_Extension.htm
  - ITextValue (System.Xml.ITextValue.html)
  - IXMLIRWCollection (System.Xml.IXMLIRWCollection.htı
  - XMLIRW (System.Xml.XMLIRW.html)
  - XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
  - XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)

IsNull

Check if the value is null.

Declaration

```
public override bool IsNull { get; }
```

Property Value

Type	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

Overrides

XMLIRWText.IsNull (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_IsNull)

Name

Returns or sets the name of the XMLIRW object.

Declaration

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

Property Value

Type	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	

Overrides

XMLIRWText.Name (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_Name)

Null

Returns a representation of a null XMLIRW text.

Declaration

```
public static XMLIRWTextNull Null { get; }
```

Property Value

Type	Description
XMLIRWTextNull (System.Xml.XMLIRWTextNull.html)	

Parent

Returns or sets the name of the parent object of the XMLIRW element.

Declaration

```
public override XMLIRW Parent { get; set; }
```

Property Value

Type	Description
XMLIRW (System.Xml.XMLIRW.html)	

Overrides

XMLIRWText.Parent (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_Parent)

Type

Returns or sets the type of the XMLIRW element.

Declaration

```
public override XmlNodeType Type { get; set; }
```

Property Value

Type	Description
XmlNodeType (https://learn.microsoft.com/dotnet/api/system.xml.xmlnodetype)	

Overrides

XMLIRWText.Type (System.Xml.XMLIRWText.html#System_Xml_XMLIRWText_Type)

Implements

IDisposable (https://learn.microsoft.com/dotnet/api/system.idisposable)
IConvertible (https://learn.microsoft.com/dotnet/api/system.iconvertible)
INullObject (Cobilas.INullObject.html)

Extension Methods

Object_CB_Extension.CompareType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type_)
Object_CB_Extension.CompareType(object, params Type[])
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType_System_Object_System_Type___)
Object_CB_Extension.CompareTypeAndSubType(object, Type)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_)

Object_CB_Extension.CompareTypeAndSubType(object, Type, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType_System_Object_System_Type_System_Boolean_)
Object_CB_Extension.CompareTypeAndSubType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_)
Object_CB_Extension.CompareTypeAndSubType<T>(object, bool)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareTypeAndSubType__1_System_Object_System_Boolean_)
Object_CB_Extension.CompareType<T>(object)
(System.Object_CB_Extension.html#System_Object_CB_Extension_CompareType__1_System_Object_)

+ Cobilas.IO.Serialization.Binary (Cobilas.IO.Serialization.Binary

+ Cobilas.IO.Serialization.Json (Cobilas.IO.Serialization.Json.h

+ Cobilas.Numeric (Cobilas.Numeric.html)

+ Cobilas.Numeric.Convert (Cobilas.Numeric.Convert.html

+ Cobilas.Threading.Tasks (Cobilas.Threading.Tasks.html)

+ System (System.html)

+ System.Collections.Generic (System.Collections.Generic.ht

+ System.IO (System.IO.html)

+ System.Reflection (System.Reflection.html)

+ System.Security.Cryptography (System.Security.Cryptography

- System.Xml (System.Xml.html)

CB_XML_Extension (System.Xml.CB_XML_Extension.htm
ITextValue (System.Xml.ITextValue.html)
IXMLIRWCollection (System.Xml.IXMLIRWCollection.htr
XMLIRW (System.Xml.XMLIRW.html)
XMLIRWAttribute (System.Xml.XMLIRWAttribute.html
XMLIRWCDATA (System.Xml.XMLIRWCDATA.html)