

# Runtime Serialization

## 1.0

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## **Chapter 1**

# **Namespace Index**



## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

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

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## Chapter 3

# Class Index

### 3.1 Class List

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

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## Chapter 4

# Namespace Documentation

### 4.1 Package UnityEngine

### 4.2 Package VoxelBusters

#### Namespaces

- package [RuntimeSerialization](#)

*The [VoxelBusters.RuntimeSerialization](#) namespace contains classes that can be used for serializing and deserializing objects at runtime. Serialization is a process of converting an object into binary stream of data and storing it on disk. Deserialization is a process of reading stored data and recreating objects from it.*

### 4.3 Package VoxelBusters.RuntimeSerialization

The [VoxelBusters.RuntimeSerialization](#) namespace contains classes that can be used for serializing and deserializing objects at runtime. Serialization is a process of converting an object into binary stream of data and storing it on disk. Deserialization is a process of reading stored data and recreating objects from it.

#### Namespaces

- package [Benchmark](#)

#### Classes

- interface [IRuntimeSerializable](#)  
*Implement this interface to control serialization and deserialization of [RuntimeSerializableAttribute](#) object.*
- interface [IRuntimeSerializationCallback](#)  
*Implement this interface to receive implicit callbacks on [RuntimeSerializableAttribute](#) object.*
- interface [IRuntimeSerializationEventListener](#)  
*Implement this interface to observe serialization process of [RuntimeSerializableAttribute](#) object.*
- interface [IRuntimeSerializationExtension](#)  
*Implement this interface to support runtime serialization for classes which belong to external assembly.*
- class [RSManager](#)  
*[RSManager](#) class is responsible for serializing and deserializing objects at runtime.*
- class [RuntimeSerializableAttribute](#)  
*Indicates that a class can be serialized at runtime.*

- class [RuntimeSerializationInfo](#)  
*Stores all the data required to serialize or deserialize an object.*
- class [RuntimeSerializeFieldAttribute](#)  
*Indicates that a field of a [RuntimeSerializableAttribute](#) class should be serialized at runtime.*

## Enumerations

- enum [eSaveTarget](#) : byte {  
    [PLAYER\\_PREFS](#),  
    [FILE\\_SYSTEM](#) }
- Saves serialization data to specified save target.*

### 4.3.1 Detailed Description

The [VoxelBusters.RuntimeSerialization](#) namespace contains classes that can be used for serializing and deserializing objects at runtime. Serialization is a process of converting an object into binary stream of data and storing it on disk. Deserialization is a process of reading stored data and recreating objects from it.

The [IRuntimeSerializable](#) interface provides a way to control their own serialization behaviour. The [IRuntimeSerializationExtension](#) interface provides a way to support runtime serialization for classes which belong to external assembly.

### 4.3.2 Enumeration Type Documentation

#### 4.3.2.1 enum eSaveTarget : byte

Saves serialization data to specified save target.

#### Enumerator

***PLAYER\_PREFS*** Saves serialization data to PlayerPrefs.

***FILE\_SYSTEM*** Saves serialization data to files. This option is not available for Unity WebPlayer.

## 4.4 Package VoxelBusters.RuntimeSerialization.Benchmark

## Chapter 5

# Class Documentation

### 5.1 IRuntimeSerializable

Implement this interface to control serialization and deserialization of [RuntimeSerializableAttribute](#) object.

#### Public Member Functions

- void [WriteSerializationData](#) ([RuntimeSerializationInfo](#) \_info)  
*Populate [RuntimeSerializationInfo](#) with the properties required to serialize [RuntimeSerializableAttribute](#) object.*
- void [ReadSerializationData](#) ([RuntimeSerializationInfo](#) \_info)  
*Retrieve properties of [RuntimeSerializableAttribute](#) object from [RuntimeSerializationInfo](#).*

#### 5.1.1 Detailed Description

Implement this interface to control serialization and deserialization of [RuntimeSerializableAttribute](#) object.

#### 5.1.2 Member Function Documentation

##### 5.1.2.1 void WriteSerializationData ( [RuntimeSerializationInfo](#) \_info )

Populate [RuntimeSerializationInfo](#) with the properties required to serialize [RuntimeSerializableAttribute](#) object.

##### Parameters

<a href="#">_info</a>	The <a href="#">RuntimeSerializationInfo</a> provides interface to store properties of <a href="#">RuntimeSerializableAttribute</a> object to be serialized.
-----------------------	--

##### 5.1.2.2 void ReadSerializationData ( [RuntimeSerializationInfo](#) \_info )

Retrieve properties of [RuntimeSerializableAttribute](#) object from [RuntimeSerializationInfo](#).

##### Parameters

<a href="#">_info</a>	The <a href="#">RuntimeSerializationInfo</a> provides interface to retrieve <a href="#">RuntimeSerializableAttribute</a> object property values.
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## 5.2 IRuntimeSerializationCallback

Implement this interface to receive implicit callbacks on [RuntimeSerializableAttribute](#) object.

### Public Member Functions

- void [OnAfterRuntimeSerialize](#) ()  
*Event triggered after [RuntimeSerializableAttribute](#) object is serialized.*
- void [OnAfterRuntimeDeserialize](#) ()  
*Event triggered after [RuntimeSerializableAttribute](#) object is deserialized.*

### 5.2.1 Detailed Description

Implement this interface to receive implicit callbacks on [RuntimeSerializableAttribute](#) object.

### 5.2.2 Member Function Documentation

#### 5.2.2.1 void OnAfterRuntimeSerialize ( )

Event triggered after [RuntimeSerializableAttribute](#) object is serialized.

#### 5.2.2.2 void OnAfterRuntimeDeserialize ( )

Event triggered after [RuntimeSerializableAttribute](#) object is deserialized.

## 5.3 IRuntimeSerializationEventListener

Implement this interface to observe serialization process of [RuntimeSerializableAttribute](#) object.

### Public Member Functions

- void [OnAfterRuntimeSerialize](#) (string \_serializationID)  
*Event triggered after [RuntimeSerializableAttribute](#) object is serialized.*
- void [OnAfterRuntimeDeserialize](#) (string \_serializationID, object \_deserializedObject)  
*Event triggered after [RuntimeSerializableAttribute](#) object is deserialized.*

### 5.3.1 Detailed Description

Implement this interface to observe serialization process of [RuntimeSerializableAttribute](#) object.

### 5.3.2 Member Function Documentation

#### 5.3.2.1 void OnAfterRuntimeSerialize ( string \_serializationID )

Event triggered after [RuntimeSerializableAttribute](#) object is serialized.

## Parameters

<code>_serializationID</code>	Identifier associated with <a href="#">RuntimeSerializableAttribute</a> object.
-------------------------------	---

5.3.2.2 void OnAfterRuntimeDeserialize ( string `_serializationID`, object `_deserializedObject` )

Event triggered after [RuntimeSerializableAttribute](#) object is deserialized.

## Parameters

<code>_serializationID</code>	Identifier associated with <a href="#">RuntimeSerializableAttribute</a> object.
<code>_deserializedObject</code>	Deserialized <a href="#">RuntimeSerializableAttribute</a> object.

## 5.4 IRuntimeSerializationExtension

Implement this interface to support runtime serialization for classes which belong to external assembly.

Inherited by BoundsRSExtension, and ObjectRSExtension.

### Public Member Functions

- void [WriteSerializationData](#) ( object `_object`, [RuntimeSerializationInfo](#) `_info` )  
Populate [RuntimeSerializationInfo](#) with the properties required to serialize target object.
- object [ReadSerializationData](#) ( object `_object`, [RuntimeSerializationInfo](#) `_info` )  
Retrieve serialized properties of target object from [RuntimeSerializationInfo](#).

### 5.4.1 Detailed Description

Implement this interface to support runtime serialization for classes which belong to external assembly.

### 5.4.2 Member Function Documentation

5.4.2.1 void WriteSerializationData ( object `_object`, [RuntimeSerializationInfo](#) `_info` )

Populate [RuntimeSerializationInfo](#) with the properties required to serialize target object.

## Parameters

<code>_object</code>	Target object to be serialized
<code>_info</code>	The <a href="#">RuntimeSerializationInfo</a> provides interface to add properties to be serialized.

5.4.2.2 object ReadSerializationData ( object `_object`, [RuntimeSerializationInfo](#) `_info` )

Retrieve serialized properties of target object from [RuntimeSerializationInfo](#).

## Returns

The deserialized object.

## Parameters

<code>_object</code>	Target object to be deserialized.
<code>_info</code>	The <a href="#">RuntimeSerializationInfo</a> provides interface to retrieve serialized values.

## 5.5 RSManger

[RSManger](#) class is responsible for serializing and deserializing objects at runtime.

Inherits SingletonPattern< RSManger >.

### Static Public Member Functions

- static string [Serialize< T >](#) (T \_object, string \_serializationID=null)  
*Returns serialization data after serializing target object. Note: Serialization data is not saved.*
- static void [Serialize< T >](#) (T \_object, string \_serializationID, [eSaveTarget](#) \_saveTarget)  
*Serialize the specified object and save serialization data to specified target where it is associated with an identifier.*
- static T [DeserializeData< T >](#) (string \_serializationData, T \_targetObject=default(T), string \_serializationID=null)  
*Deserializes the serialization data and recreates the object of specified type.*
- static T [Deserialize< T >](#) (string \_serializationID, T \_targetObject=default(T))  
*Deserializes the data serialization associated with identifier and recreates the object of specified type.*
- static string [GetSerializationData](#) (string \_serializationID)  
*Returns serialization data associated with given identifier. Ideal for supporting multi device login, wherein you can remotely save serialization data and restore it on other devices using [RSManger.RestoreSerializationData](#).*
- static bool [RestoreSerializationData](#) (string \_serializationData, string \_serializationID, [eSaveTarget](#) \_saveTarget)  
*Saves Base64String format serialization data to specified target location where it is associated with an identifier.*
- static void [RegisterEventListener](#) (string \_serializationID, [IRuntimeSerializationEventListener](#) \_newListener)  
*Register object to receive serialization events.*
- static void [UnRegisterEventListener](#) (string \_serializationID, [IRuntimeSerializationEventListener](#) \_listener)  
*Unregister object from receiving serialization events.*
- static void [Remove](#) (string \_serializationID)  
*Clears existing serialization data associated with serialization identifier.*
- static void [RemoveAll](#) ()  
*Clears all existing serialization data.*
- static void [Save](#) ()  
*Writes all serialization data to disk. By default [RSManger](#) writes serialization data to PlayerPrefs/File on Application Pause and on Application Quit.*
- static void [Purge](#) (Type \_objectType)  
*Clears all the cached information of specified object type.*

### 5.5.1 Detailed Description

[RSManger](#) class is responsible for serializing and deserializing objects at runtime.

### 5.5.2 Member Function Documentation

#### 5.5.2.1 static string [Serialize< T >](#) ( T \_object, string \_serializationID = null ) [static]

Returns serialization data after serializing target object. Note: Serialization data is not saved.



## Parameters

<code>_object</code>	Object to serialize.
<code>_serializationID</code>	Identifier associated with serialization data.

## Template Parameters

<code>T</code>	Type of the object to serialize.
----------------	----------------------------------

**5.5.2.2** `static void Serialize< T > ( T _object, string _serializationID, eSaveTarget _saveTarget ) [static]`

Serialize the specified object and save serialization data to specified target where it is associated with an identifier.

## Parameters

<code>_object</code>	Object to serialize.
<code>_serializationID</code>	Identifier associated with serialization data of the target object.
<code>_saveTarget</code>	Save target for serialization data.

## Template Parameters

<code>T</code>	Type of the object to serialize.
----------------	----------------------------------

**5.5.2.3** `static T DeserializeData< T > ( string _serializationData, T _targetObject = default (T) , string _serializationID = null ) [static]`

Deserializes the serialization data and recreates the object of specified type.

## Returns

The deserialized object of specified type.

## Parameters

<code>_serializationData</code>	Serialization data in Base64String format.
<code>_targetObject</code>	Deserialized value is assigned to this instance, if value is not null.
<code>_serializationID</code>	Identifier associated with serialization data.

## Template Parameters

<code>T</code>	The Type of the value to deserialize.
----------------	---------------------------------------

**5.5.2.4** `static T Deserialize< T > ( string _serializationID, T _targetObject = default (T) ) [static]`

Deserializes the data serialization associated with identifier and recreates the object of specified type.

## Parameters

<code>_serializationID</code>	Identifier associated with serialization data.
<code>_targetObject</code>	Deserialized value is assigned to this instance, if value is not null.

## Template Parameters

<i>T</i>	The Type of the value to deserialize.
----------	---------------------------------------

#### 5.5.2.5 static string GetSerializationData ( string *\_serializationID* ) [static]

Returns serialization data associated with given identifier. Ideal for supporting multi device login, wherein you can remotely save serialization data and restore it on other devices using [RSManager.RestoreSerializationData](#).

##### Returns

Serialization data as Base64String.

##### Parameters

<i>_serializationID</i>	Identifier associated with serialization data.
-------------------------	--

#### 5.5.2.6 static bool RestoreSerializationData ( string *\_serializationData*, string *\_serializationID*, eSaveTarget *\_saveTarget* ) [static]

Saves Base64String format serialization data to specified target location where it is associated with an identifier.

##### Parameters

<i>_serializationData</i>	Serialization data in Base64String format.
<i>_serializationID</i>	Identifier associated with serialization data.
<i>_saveTarget</i>	Serialization data save target.

#### 5.5.2.7 static void RegisterEventListener ( string *\_serializationID*, IRuntimeSerializationEventListener *\_newListener* ) [static]

Register object to receive serialization events.

##### Parameters

<i>_serializationID</i>	Identifier associated with serialization.
<i>_newListener</i>	Instance to be registered as listener.

#### 5.5.2.8 static void UnRegisterEventListener ( string *\_serializationID*, IRuntimeSerializationEventListener *\_listener* ) [static]

Unregister object from receiving serialization events.

##### Parameters

<i>_serializationID</i>	Identifier associated with serialization data.
<i>_callback</i>	Target object to be unregistered from serialization callbacks.

#### 5.5.2.9 static void Remove ( string *\_serializationID* ) [static]

Clears existing serialization data associated with serialization identifier.

## Parameters

<code>_serializationID</code>	Identifier associated with serialization data.
-------------------------------	--

5.5.2.10 `static void RemoveAll ( ) [static]`

Clears all existing serialization data.

5.5.2.11 `static void Save ( ) [static]`

Writes all serialization data to disk. By default [RSManager](#) writes serialization data to PlayerPrefs/File on Application Pause and on Application Quit.

5.5.2.12 `static void Purge ( Type _objectType ) [static]`

Clears all the cached information of specified object type.

## 5.6 RuntimeSerializableAttribute

Indicates that a class can be serialized at runtime.

Inherits Attribute.

### Public Member Functions

- [RuntimeSerializableAttribute](#) ( )  
*Initializes a new instance of the [RuntimeSerializableAttribute](#) class.*
- [RuntimeSerializableAttribute](#) (bool \_serializeAllPublicVariables)  
*Initializes a new instance of the [RuntimeSerializableAttribute](#) class.*
- [RuntimeSerializableAttribute](#) (bool \_serializeAllPublicVariables, bool \_serializeAllNonPublicVariables)  
*Initializes a new instance of the [RuntimeSerializableAttribute](#) class.*

### 5.6.1 Detailed Description

Indicates that a class can be serialized at runtime.

### 5.6.2 Constructor & Destructor Documentation

5.6.2.1 `RuntimeSerializableAttribute ( )`

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

5.6.2.2 `RuntimeSerializableAttribute ( bool _serializeAllPublicVariables )`

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

## Parameters

<code>_serializeAllPublicVariables</code>	If set to <code>true</code> all public variables will be serialized at runtime.
---	---

5.6.2.3 `RuntimeSerializableAttribute ( bool _serializeAllPublicVariables, bool _serializeAllNonPublicVariables )`

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

## Parameters

<code>_serializeAllPublicVariables</code>	If set to <code>true</code> all public variables will be serialized at runtime.
<code>_serializeAllNonPublicVariables</code>	If set to <code>true</code> all non public variables will be serialized at runtime.

## 5.7 RuntimeSerializationInfo

Stores all the data required to serialize or deserialize an object.

## Public Member Functions

- void [AddValue](#)< T > (string \_name, T \_value)  
Adds the specified object into the [RuntimeSerializationInfo](#) for serialization, where it is associated with name.
- void [AddValue](#) (string \_name, object \_value, Type \_valueType)  
Adds the specified object into the [RuntimeSerializationInfo](#) for serialization, where it is associated with name.
- T [GetValue](#)< T > (string \_name)  
Retrieves value from [RuntimeSerializationInfo](#).
- object [GetValue](#) (string \_name, Type \_type)  
Retrieves value from [RuntimeSerializationInfo](#).

### 5.7.1 Detailed Description

Stores all the data required to serialize or deserialize an object.

### 5.7.2 Member Function Documentation

5.7.2.1 void [AddValue](#)< T > ( string \_name, T \_value )

Adds the specified object into the [RuntimeSerializationInfo](#) for serialization, where it is associated with name.

## Parameters

<code>_name</code>	The name to associate with the value, so it can be deserialized later.
<code>_value</code>	The value to be serialized. Any children of this object will automatically be serialized.

## Template Parameters

<i>T</i>	The Type associated with the current object. This must always be the type of the object itself.
----------	---

#### 5.7.2.2 void AddValue ( string \_name, object \_value, Type \_valueType )

Adds the specified object into the [RuntimeSerializationInfo](#) for serialization, where it is associated with name.

##### Parameters

<i>_name</i>	The name to associate with the value, so it can be deserialized later.
<i>_value</i>	The value to be serialized. Any children of this object will automatically be serialized.
<i>_valueType</i>	The Type associated with the current object. This must always be the type of the object itself.

#### 5.7.2.3 T GetValue< T > ( string \_name )

Retrieves value from [RuntimeSerializationInfo](#).

##### Returns

The object of specified type associated with name.

##### Parameters

<i>_name</i>	The name associated with the value to retrieve.
--------------	---

##### Template Parameters

<i>T</i>	The Type of the value to retrieve.
----------	------------------------------------

#### 5.7.2.4 object GetValue ( string \_name, Type \_type )

Retrieves value from [RuntimeSerializationInfo](#).

##### Returns

The object of specified type associated with name.

##### Parameters

<i>_name</i>	The name associated with the value to retrieve.
--------------	---

<param name=="\_type">The Type of the value to retrieve.

## 5.8 RuntimeSerializeFieldAttribute

Indicates that a field of a [RuntimeSerializableAttribute](#) class should be serialized at runtime.

Inherits Attribute.

### 5.8.1 Detailed Description

Indicates that a field of a [RuntimeSerializableAttribute](#) class should be serialized at runtime.



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