

Namespace WebSockets.Core

Classes

[ClientHandshake](#)

The client side of the WebSocket handshake.

[Handshake](#)

The base protocol class providing functionality shared by both clients and servers.

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The base protocol class providing functionality shared by both clients and servers.

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[ServerHandshake](#)

The server side of the WebSocket handshake.

[WebRequest](#)

A class modelling the required values of a WebSocket HTTP request.

[WebResponse](#)

Enums

[HandshakeState](#)

The state of the handshake.

[ProtocolState](#)

The state of the protocol.

Class ClientHandshake

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll








The client side of the WebSocket handshake.

```
public class ClientHandshake : Handshake
```

Inheritance

[object](#)  ← [Handshake](#) ← ClientHandshake

Inherited Members

[Handshake.State](#) , [Handshake.SelectedSubProtocol](#) , [Handshake.ReadData\(byte\[\], ref long, long\)](#) , [Handshake.WriteData\(byte\[\], long, long\)](#) , [object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Examples

```
using System;
using System.Net;
using System.Net.Sockets;

using WebSockets.Core;
using WebSockets.Core.Messages;

namespace ClientExample
{
    class Program
    {
        static void main()
        {
            var endpoint = IPEndPoint.Parse("localhost:8081");
            var tcpClient = new TcpClient();
            tcpClient.Connect(endpoint);

            stream = tcpClient.GetStream();
            handshake = new ClientHandshake("http://client.com", []);
            handshake.WriteRequest("/chat", "www.example.com");

            // Send the request.
```

```

var buffer = new byte[1024];
var isDone = false;
while (!isDone)
{
    var bytesRead = 0L;
    handshake.ReadData(buffer, ref bytesRead, buffer.LongLength);
    if (bytesRead == 0)
        isDone = true;
    else
        stream.Write(buffer, 0, (int)bytesRead);
}

// Read the response.
var offset = 0L;
isDone = false;
while (!isDone)
{
    var bytesRead = stream.Read(buffer);
    handshake.WriteData(buffer, offset, bytesRead);
    if (offset == bytesRead)
        offset = 0;
    isDone = handshake.ReadResponse() is not null;
}

var webResponse = handshake.ReadResponse();
}
}
}

```

Constructors

ClientHandshake(string, string[])

Construct a client handshake.

```
public ClientHandshake(string origin, string[] subProtocols)
```

Parameters

origin [string](#) 

The origin is the url of the initiator of the request.

`subProtocols string[]`

A (possibly empty) array of requested sub-protocols.

Methods

ReadResponse()

Read a handshake response.

```
public WebResponse? ReadResponse()
```

Returns

[WebResponse](#)

The response from the server, or null if a complete response has yet to be received.

WriteRequest(string, string)

Write a handshake request.

```
public void WriteRequest(string path, string host)
```

Parameters

`path` [string](#)

The path on the server.

`host` [string](#)

The server name.

Class Handshake

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll

The base protocol class providing functionality shared by both clients and servers.

```
public abstract class Handshake
```








Inheritance

[object](#)  ← Handshake

Derived

[ClientHandshake](#), [ServerHandshake](#)

Inherited Members

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

Properties

SelectedSubProtocol

The sub-protocol negotiated during the handshake.

```
public string? SelectedSubProtocol { get; protected set; }
```

Property Value

[string](#) 

The (possibly null) selected sub-protocol.

State

The state of the connection.

```
public HandshakeState State { get; protected set; }
```

Property Value

[HandshakeState](#)

The connection state.

Methods

ReadData(byte[], ref long, long)

Read handshake data from the provided array into the handshake buffer.

```
public void ReadData(byte[] source, ref long offset, long length)
```

Parameters

source [byte](#)[↗][]

The buffer containing the data.

offset [long](#)[↗]

The offset into the buffer.

length [long](#)[↗]

The length of the data.

WriteData(byte[], long, long)

Write data from the handshake buffer into the provided array.

```
public void WriteData(byte[] destination, long offset, long length)
```

Parameters

destination [byte](#)[]

The array to receive the data.

offset [long](#)

The point in the buffer to start writing the data.

length [long](#)

The length of the buffer.

Enum HandshakeState

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll

The state of the handshake.

```
public enum HandshakeState
```

Fields

Failed = 2

Pending = 0

Succeeded = 1

Class MessageProtocol

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll








The base protocol class providing functionality shared by both clients and servers.

```
public class MessageProtocol
```

Inheritance

[object](#)  ← MessageProtocol

Inherited Members

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

Constructors

MessageProtocol(bool)

```
public MessageProtocol(bool isClient)
```

Parameters

isClient [bool](#) 

Properties

State

The state of the protocol.

```
public ProtocolState State { get; protected set; }
```

Property Value

[ProtocolState](#)

The protocol state.

Methods

ReadData(byte[], ref long, long)

Read data from the protocol.

```
public bool ReadData(byte[] destination, ref long offset, long length)
```

Parameters

destination [byte](#)[↗][]

The array to which the data should be written.

offset [long](#)[↗]

The offset in the array to start writing the data.

length [long](#)[↗]

The length of the array.

Returns

[bool](#)[↗]

ReadMessage()

Read a message from the protocol.

```
public Message? ReadMessage()
```

Returns

[Message](#)

If there is a complete message the message is returned, otherwise null.

WriteData(byte[], long, long)

Write data to the protocol.

```
public void WriteData(byte[] source, long offset, long length)
```

Parameters

source [byte](#)[]

The data to write.

offset [long](#)

The offset from which the data should be written.

length [long](#)

The available length of the data.

WriteMessage(Message)

Write a message to the protocol.

```
public void WriteMessage(Message message)
```

Parameters

message [Message](#)

The message to write.

Enum ProtocolState

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll

The state of the protocol.

```
public enum ProtocolState
```

Fields

Closed = 2

Closing = 1

Connected = 0

Faulted = 3

Class PublicExtensionMethods

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll

```
public static class PublicExtensionMethods
```

Inheritance

[object](#) ← PublicExtensionMethods

Inherited Members

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

Methods

SingleCommaValues(IDictionary<string, IList<string>>, string)

```
public static string[]? SingleCommaValues(this IDictionary<string, IList<string>> headers, string key)
```

Parameters

headers [IDictionary](#)<[string](#), [IList](#)<[string](#)>>

key [string](#)

Returns

[string](#)[]

SingleValue(IDictionary<string, IList<string>>, string)

```
public static string? SingleValue(this IDictionary<string, IList<string>> headers, string key)
```

Parameters

headers [IDictionary](#)[↗](#) <[string](#)[↗](#), [IList](#)[↗](#) <[string](#)[↗](#)>>

key [string](#)[↗](#)

Returns

[string](#)[↗](#)

Class ServerHandshake

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll








The server side of the WebSocket handshake.

```
public class ServerHandshake : Handshake
```

Inheritance

[object](#)  ← [Handshake](#) ← ServerHandshake

Inherited Members

[Handshake.State](#) , [Handshake.SelectedSubProtocol](#) , [Handshake.ReadData\(byte\[\], ref long, long\)](#) , [Handshake.WriteData\(byte\[\], long, long\)](#) , [object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Examples

```
using System;
using System.IO;
using System.Net;
using System.Net.Sockets;

using WebSockets.Core;
using WebSockets.Core.Messages;

namespace ServerExample
{
    class Program
    {
        static void Main()
        {
            var listener = new TcpListener(IPAddress.Any, 8081);
            listener.Start();
            var tcpClient = listener.AcceptTcpClient();

            var stream = client.GetStream();
            var handshake = new ServerHandshake(subProtocols);

            // Read the client request.
```

```

WebRequest? webRequest = null;
var buffer = new byte[1024];
while (webRequest is null)
{
    var bytesRead = stream.Read(buffer);
    if (bytesRead == 0)
        throw new EndOfStreamException();
    handshake.WriteData(buffer, 0, bytesRead);

    webRequest = handshake.ReadRequest();
}

// Send the response.
var webResponse = handshake.CreateWebResponse(webRequest);
handshake.WriteResponse(webResponse);
bool isDone = false;
while (!isDone)
{
    var bytesRead = 0L;
    _handshake.ReadData(buffer, ref bytesRead, buffer.LongLength);
    if (bytesRead == 0)
        isDone = true;
    else
    {
        _stream.Write(buffer, 0, (int)bytesRead);
        Console.WriteLine("Sent client data");
    }
}
}
}
}

```

Constructors

ServerHandshake(string[])

Construct a server handshake object.

```
public ServerHandshake(string[] subProtocols)
```

Parameters

`subProtocols` [string](#)[]

The supported sub-protocols.

Methods

CreateWebResponse(WebRequest)

Create the WebSocket response.

If the response is valid an accept/upgrade response is generated. An invalid response will generated a 400 response containing the reason for the rejection.

```
public WebResponse CreateWebResponse(WebRequest webRequest)
```

Parameters

`webRequest` [WebRequest](#)

The request from the client.

Returns

[WebResponse](#)

The response to be sent to the client.

ReadRequest()

Read a [WebRequest](#) from the protocol.

The request will be available when all of the request bytes have been received.

```
public WebRequest? ReadRequest()
```

Returns

[WebRequest](#)

A [WebRequest](#) if the complete message has been received; otherwise null.

WriteResponse(WebResponse)

Write a web response to the handshake buffer.

```
public void WriteResponse(WebResponse webResponse)
```

Parameters

webResponse [WebResponse](#)

The response to send to the client.

Class WebRequest

Namespace: [WebSockets.Core](#)

Assembly: WebSockets.Core.dll







A class modelling the required values of a WebSocket HTTP request.

```
public class WebRequest
```

Inheritance

[object](#)  ← WebRequest

Inherited Members

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

Constructors

WebRequest(string, string, string, IDictionary<string, IList<string>>, byte[]?)

Construct a web request.

```
public WebRequest(string verb, string path, string version, IDictionary<string,  
IList<string>> headers, byte[]? body)
```

Parameters

verb [string](#) 

The verb (GET, POST, etc).

path [string](#) 

The server path.

version [string](#) 

The HTTP version.

headers [IDictionary<string, IList<string>>](#)

The headers.

body [byte\[\]](#)

An optional body.

Properties

Body

```
public byte[]? Body { get; }
```

Property Value

[byte\[\]](#)

Headers

The HTTP Headers.

Note: header keys are case insensitive.

```
public IDictionary<string, IList<string>> Headers { get; }
```

Property Value

[IDictionary<string, IList<string>>](#)

The headers.

Path

The server path.

```
public string Path { get; }
```

Property Value

[string](#) 

The path for the server.

Verb

The HTTP verb.

```
public string Verb { get; }
```

Property Value

[string](#) 

The verb.

Version

The HTTP version.

```
public string Version { get; }
```

Property Value

[string](#) 

The version.

Methods

CreateUpgradeRequest(string, string, string, string, string[]?)

```
public static WebRequest CreateUpgradeRequest(string path, string host, string  
origin, string key, string[]? subProtocols)
```

Parameters

path [string](#)

host [string](#)

origin [string](#)

key [string](#)

subProtocols [string](#)[]

Returns

[WebRequest](#)

Parse(byte[])

```
public static WebRequest Parse(byte[] data)
```

Parameters

data [byte](#)[]

Returns

[WebRequest](#)

ToString()

Returns a string that represents the current object.

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

Returns

[string](#)

A string that represents the current object.

Class WebResponse

Namespace: [WebSockets.Core](#)








Assembly: WebSockets.Core.dll

```
public class WebResponse
```

Inheritance

[object](#)  ← WebResponse

Inherited Members

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

Constructors

WebResponse(string, int, string, IDictionary<string, IList<string>>, byte[]?)

```
public WebResponse(string version, int code, string reason, IDictionary<string,  
IList<string>> headers, byte[]? body)
```

Parameters

version [string](#) 

code [int](#) 

reason [string](#) 

headers [IDictionary](#)  <[string](#) , [IList](#)  <[string](#)  >>

body [byte](#)  []

Properties

Body

```
public byte[]? Body { get; }
```

Property Value

[byte](#)[]

Code

```
public int Code { get; }
```

Property Value

[int](#)

Headers

```
public IDictionary<string, IList<string>> Headers { get; }
```

Property Value

[IDictionary](#)<[string](#), [IList](#)<[string](#)>>

Reason

```
public string Reason { get; }
```

Property Value

[string](#)

Version


```
public string Version { get; }
```

Property Value

[string](#) 

Methods

CreateAcceptResponse(string, string?)

```
public static WebResponse CreateAcceptResponse(string responseKey,  
string? subProtocol)
```

Parameters

responseKey [string](#) 

subProtocol [string](#) 

Returns

[WebResponse](#)

CreateErrorResponse(string, DateTime)

```
public static WebResponse CreateErrorResponse(string reason, DateTime date)
```

Parameters

reason [string](#) 

date [DateTime](#) 

Returns

[WebResponse](#)

Parse(byte[])

```
public static WebResponse Parse(byte[] data)
```

Parameters

data [byte\[\]](#)

Returns

[WebResponse](#)

ToBytes()

```
public byte[] ToBytes()
```

Returns

[byte\[\]](#)

Namespace WebSockets.Core.Messages

Classes

[BinaryMessage](#)

[CloseMessage](#)

A message indicating the connection should be closed.

If this is an initiating message the other side will respond with a close with the same code and reason.

[DataMessage](#)

The base class for all messages which hold raw data.

[Message](#)

The base class for all WebSocket messages.

[PingMessage](#)

A ping message.

[PongMessage](#)

The message used to respond to a ping message.

[TextMessage](#)

A message with text data.

Enums

[MessageType](#)

The types of messages.

Class BinaryMessage

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

```
public class BinaryMessage : DataMessage, IEquatable<Message>,
    IEquatable<DataMessage>
```








Inheritance

[object](#)  ← [Message](#) ← [DataMessage](#) ← BinaryMessage

Implements

[IEquatable](#)  <[Message](#)>, [IEquatable](#)  <[DataMessage](#)>

Inherited Members

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

Constructors

BinaryMessage(byte[])

```
public BinaryMessage(byte[] data)
```

Parameters

data [byte](#)  []

Class CloseMessage

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

A message indicating the connection should be closed.

If this is an initiating message the other side will respond with a close with the same code and reason.

```
public class CloseMessage : Message, IEquatable<Message>, IEquatable<CloseMessage>
```








Inheritance

[object](#)  ← [Message](#) ← CloseMessage

Implements

[IEquatable](#)  <[Message](#)>, [IEquatable](#)  <[CloseMessage](#)>

Inherited Members

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

Constructors

CloseMessage(ushort?, string?)

Construct a close message.

If a reason is given a code must be specified.

```
public CloseMessage(ushort? code, string? reason)
```

Parameters

code [ushort](#) ?

An optional code.

reason [string](#) 

An optional reason.

Properties

Code

A code indicating the reason for the close.

```
public ushort? Code { get; }
```

Property Value

[ushort](#)[↗]?

The code.

Reason

A reason for the close.

```
public string? Reason { get; }
```

Property Value

[string](#)[↗]

The reason.

Methods

Equals(CloseMessage?)

Indicates whether the current object is equal to another object of the same type.

```
public bool Equals(CloseMessage? other)
```



Parameters

other [CloseMessage](#)

An object to compare with this object.

Returns

[bool](#)

[true](#) if the current object is equal to the **other** parameter; otherwise, [false](#).

Class DataMessage

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

The base class for all messages which hold raw data.

```
public abstract class DataMessage : Message, IEquatable<Message>,
    IEquatable<DataMessage>
```

Inheritance

[object](#)  ← [Message](#) ← DataMessage








Implements

[IEquatable](#)  <[Message](#)>, [IEquatable](#)  <[DataMessage](#)>

Derived

[BinaryMessage](#), [PingMessage](#), [PongMessage](#)

Inherited Members

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

Constructors

DataMessage(MessageType, byte[])

Construct a data message.

```
public DataMessage(MessageType type, byte[] data)
```

Parameters

type [MessageType](#)

The type of the message.

data [byte](#)  []

The message data.

Properties

Data

The data associated with the message.

```
public byte[] Data { get; }
```

Property Value

[byte](#)[↗][]

The message data.

Methods

Equals(DataMessage?)

Indicates whether the current object is equal to another object of the same type.

```
public bool Equals(DataMessage? other)
```

Parameters

other [DataMessage](#)

An object to compare with this object.

Returns

[bool](#)[↗]

[true](#)[↗] if the current object is equal to the **other** parameter; otherwise, [false](#)[↗].

Class Message

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

The base class for all WebSocket messages.

```
public abstract class Message : IEquatable<Message>
```

Inheritance

[object](#)  ← Message








Implements

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

Derived

[CloseMessage](#), [DataMessage](#), [TextMessage](#)

Inherited Members

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

Constructors

Message(MessageType)

Construct a message.

```
protected Message(MessageType type)
```

Parameters

type [MessageType](#)

The message type.

Properties

Type

The message type.

```
public MessageType Type { get; }
```

Property Value

[MessageType](#)

The type of the message.

Methods

Equals(Message?)

Indicates whether the current object is equal to another object of the same type.

```
public bool Equals(Message? other)
```

Parameters

other [Message](#)

An object to compare with this object.

Returns

[bool](#)[↗]

[true](#)[↗] if the current object is equal to the **other** parameter; otherwise, [false](#)[↗].

Enum MessageType

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

The types of messages.

```
public enum MessageType
```

Fields

Binary = 1

Close = 4

Ping = 2

Pong = 3

Text = 0

Class PingMessage

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

A ping message.

```
public class PingMessage : DataMessage, IEquatable<Message>, IEquatable<DataMessage>
```








Inheritance

[object](#)  ← [Message](#) ← [DataMessage](#) ← PingMessage

Implements

[IEquatable](#)  <[Message](#)>, [IEquatable](#)  <[DataMessage](#)>

Inherited Members

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

Constructors

PingMessage(byte[])

Construct a ping message.

```
public PingMessage(byte[] data)
```

Parameters

data [byte](#)  []

The data that the pong message should return.

Class PongMessage

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

The message used to respond to a ping message.

```
public class PongMessage : DataMessage, IEquatable<Message>, IEquatable<DataMessage>
```








Inheritance

[object](#)  ← [Message](#) ← [DataMessage](#) ← PongMessage

Implements

[IEquatable](#)  <[Message](#)>, [IEquatable](#)  <[DataMessage](#)>

Inherited Members

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

Constructors

PongMessage(byte[])

Construct a pong message.

```
public PongMessage(byte[] data)
```

Parameters

data [byte](#)  []

The data sent by the ping messages.

Class TextMessage

Namespace: [WebSockets.Core.Messages](#)

Assembly: WebSockets.Core.dll

A message with text data.

```
public class TextMessage : Message, IEquatable<Message>, IEquatable<TextMessage>
```








Inheritance

[object](#)  ← [Message](#) ← TextMessage

Implements

[IEquatable](#)  <[Message](#)>, [IEquatable](#)  <[TextMessage](#)>

Inherited Members

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

Constructors

TextMessage(string)

Construct the text message.

```
public TextMessage(string text)
```

Parameters

text [string](#) 

The message text.

Properties

Text

The message text.

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

Property Value

[string](#) 

The text.

Methods

Equals(TextMessage?)

Indicates whether the current object is equal to another object of the same type.

```
public bool Equals(TextMessage? other)
```


Parameters

other [TextMessage](#)

An object to compare with this object.

Returns

[bool](#) 

[true](#)  if the current object is equal to the **other** parameter; otherwise, [false](#) .