

System.Collections.Generic.IEnumerable<T> Interface

```
[ILAsm]
.class interface public abstract
System.Collections.Generic.IEnumerable`1<T> implements
System.Collections.IEnumerable

[C#]
public interface IEnumerable<out T>: System.Collections.IEnumerable
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 4.0.0.0
- *Attributes:*
 - CLSCompliantAttribute(true)

Implements:

- **System.Collections.IEnumerable**

Summary

Exposes the enumerator, which supports a simple iteration over a collection of a specified type.

Library: BCL

Description

Many interfaces and classes in the `System.Collections.Generic` namespace inherit the `System.Collections.Generic.IEnumerable<T>` interface to implement enumerators. For an example, see the `System.Collections.Generic.ICollection<T>` interface.

Behaviors

`System.Collections.Generic.IEnumerable<T>` is included for parity with non-generic collections; implementing `System.Collections.Generic.IEnumerable<T>` allows a generic collection to be passed to a method that expects an `System.Collections.IEnumerable` object.

IEnumerable<+T>.GetEnumerator() Method

```
[ILAsm]  
.method public hidebysig newslot abstract virtual instance class  
System.Collections.Generic.IEnumerator`1<T> GetEnumerator() cil managed  
  
[C#]  
public System.Collections.Generic.IEnumerator<out T> GetEnumerator ()
```

Summary

Returns an enumerator that iterates through the collection.

Return Value

A `System.Collections.Generic.IEnumerator`1<T>` that can be used to iterate through the collection.

Usage

For a detailed description regarding the use of an enumerator, see `System.Collections.Generic.IEnumerator<T>`.