

System.Collections.Generic.Dictionary<TKey, TValue>.Enumerator Structure

```
[ILAsm]
.class sequential sealed nested public serializable
System.Collections.Generic.Dictionary`2/Enumerator<TKey,TValue> extends
System.ValueType implements
System.Collections.Generic.IEnumerator`1<valuetype KeyValuePair<!0,!1>>,
System.IDisposable, System.Collections.IDictionaryEnumerator,
System.Collections.IEnumerator

[C#]
public struct Dictionary<TKey,TValue>.Enumerator:
IEnumerator<KeyValuePair<TKey,TValue>>, IDisposable,
IDictionaryEnumerator, IEnumerator
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Implements:

- **System.IDisposable**
- **System.Collections.IDictionaryEnumerator**
- **System.Collections.IEnumerator**
- **System.Collections.Generic.IEnumerator<TKey>**

Summary

Enumerates the elements of a dictionary.

Inherits From: System.ValueType

Library: BCL

Thread Safety: Static members of this type are thread safe. Any instance members are not guaranteed to be thread safe.

Description

If the underlying dictionary is modified, or the value of any key in that dictionary is modified, the behavior of the enumerator is unspecified.

For information on the behavior of enumerators, see the Description section of `System.Collections.Generic.IEnumerator<T>`.

1
2 Default implementations of collections in `System.Collections.Generic` are not
3 synchronized.
4
5 This type is a member of type
6 `System.Collections.Generic.Dictionary<TKey,TValue>`.
7

Dictionary<TKey,TValue>.Enumerator(System.Collections.Generic.Dictionary<TKey,TValue>) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(class
System.Collections.Generic.Dictionary`2<!0,!1> dictionary)

[C#]
public Enumerator(Dictionary<TKey,TValue> dictionary)
```

Summary

Initializes a new dictionary enumerator for the specified dictionary.

Parameters

Parameter	Description
<i>dictionary</i>	The dictionary to enumerate.

Dictionary<TKey,TValue>.Enumerator.Dispose() Method

```
[ILAsm]  
.method public hidebysig void Dispose()  
  
[C#]  
public void Dispose()
```

Summary

This method is implemented to support the System.IDisposable interface.

Dictionary<TKey,TValue>.Enumerator.MoveNext() Method

```
[ILAsm]  
.method public hidebysig bool MoveNext()  
  
[C#]  
public bool MoveNext()
```

Summary

This method is implemented to support the System.Collections.IEnumerator and System.Collections.Generic.IEnumerator<T> interfaces.

Dictionary<TKey,TValue>.Enumerator.System.Collections.IEnumerator.Reset() Method

```
[ILAsm]  
.method private hidebysig virtual final void  
System.Collections.IEnumerator.Reset()  
  
[C#]  
void IEnumerator.Reset()
```

Summary

This method is implemented to support the System.Collections.IEnumerator interface.

Dictionary<TKey,TValue>.Enumerator.Current Property

```
[ILAsm]  
.property valuetype System.Collections.Generic.KeyValuePair`2<!0,!1>  
Current { public hidebysig specialname valuetype KeyValuePair`2<!0,!1>  
get_Current() }  
  
[C#]  
public KeyValuePair<TKey,TValue> Current { get; }
```

Summary

This read-only property is implemented to support the System.Collections.Generic.IEnumerator<T> interface.

Dictionary<TKey,TValue>.Enumerator.System.Collections.IDictionaryEnumerator.Entry Property

```
[ILAsm]  
.property valuetype System.Collections.DictionaryEntry  
System.Collections.IDictionaryEnumerator.Entry { private hidebysig virtual  
final specialname valuetype System.Collections.DictionaryEntry get_Entry()  
}
```

```
[C#]  
DictionaryEntry IDictionaryEnumerator.Entry { get; }
```

Summary

This read-only property is implemented to support the System.Collections.IDictionaryEnumerator interface.

Dictionary<TKey,TValue>.Enumerator.System.Collections.IDictionaryEnumerator.Key Property

```
[ILAsm]  
.property object System.Collections.IDictionaryEnumerator.Key { private  
hidebysig virtual final specialname object get_Key() }
```

```
[C#]  
object IDictionaryEnumerator.Key { get; }
```

Summary

This read-only property is implemented to support the System.Collections.IDictionaryEnumerator interface.

Dictionary<TKey,TValue>.Enumerator.System.Collections.IDictionaryEnumerator.Value Property

```
[ILAsm]  
.property object System.Collections.IDictionaryEnumerator.Value { private  
hidebysig virtual final specialname object get_Value() }
```

```
[C#]  
object IDictionaryEnumerator.Value { get; }
```

Summary

This read-only property is implemented to support the System.Collections.IDictionaryEnumerator interface.

Dictionary<TKey,TValue>.Enumerator.System.Collections.IEnumerator.Current Property

```
[ILAsm]  
.property object System.Collections.IEnumerator.Current { private  
hidebysig virtual final specialname object get_Current() }  
  
[C#]  
object IEnumerator.Current { get; }
```

Summary

This read-only property is implemented to support the System.Collections.IEnumerator interface.