

1 System.Collections.Generic.Dictionary<TKey, 2 TValue>.Enumerator Structure

```
3 [ILAsm]  
4 .class sequential sealed nested public serializable  
5 System.Collections.Generic.Dictionary`2/Enumerator<TKey,TValue> extends  
6 System.ValueType implements  
7 System.Collections.Generic.IEnumerator`1<valuetype KeyValuePair<!0,!1>>,  
8 System.IDisposable, System.Collections.IDictionaryEnumerator,  
9 System.Collections.IEnumerator  
10 [C#]  
11 public struct Dictionary<TKey,TValue>.Enumerator:  
12 IEnumerable<KeyValuePair<TKey,TValue>>, IDisposable,  
13 IDictionaryEnumerator, IEnumerator
```

14 Assembly Info:

- 15 • *Name:* mscorlib
- 16 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 17 • *Version:* 2.0.x.x
- 18 • *Attributes:*
 - 19 ○ CLSCompliantAttribute(true)

20 Implements:

- 21 • **System.IDisposable**
- 22 • **System.Collections.IDictionaryEnumerator**
- 23 • **System.Collections.IEnumerator**
- 24 • **System.Collections.Generic.IEnumerator<TKey>**

25 Summary

26 Enumerates the elements of a dictionary.

27 Inherits From: System.ValueType

28

29 **Library:** BCL

30

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

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34 Description

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

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

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Default implementations of collections in `System.Collections.Generic` are not synchronized.

This type is a member of type
`System.Collections.Generic.Dictionary<TKey, TValue>`.

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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.

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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.

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2 **Dictionary<TKey,TValue>.Enumerator.MoveNext**
3 **ext() Method**

```
4 [ILAsm]  
5 .method public hidebysig bool MoveNext()  
  
6 [C#]  
7 public bool MoveNext()
```

8 **Summary**

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

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1
2 **Dictionary<TKey,TValue>.Enumerator.System**
3 **.Collections.IEnumerator.Reset() Method**

```
4 [ILAsm]  
5 .method private hidebysig virtual final void  
6 System.Collections.IEnumerator.Reset()  
  
7 [C#]  
8 void IEnumerator.Reset()
```

9 **Summary**

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

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1
2 **Dictionary<TKey,TValue>.Enumerator.Curren**
3 **t Property**

```
4 [ILAsm]  
5 .property valuetype System.Collections.Generic.KeyValuePair`2<!0,!1>  
6 Current { public hideby sig specialname valuetype KeyValuePair`2<!0,!1>  
7 get_Current() }  
  
8 [C#]  
9 public KeyValuePair<TKey,TValue> Current { get; }
```

10 **Summary**

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

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1
2 **Dictionary<TKey,TValue>.Enumerator.System**
3 **.Collections.IDictionaryEnumerator.Entry**
4 **Property**

```
5 [ILAsm]  
6 .property valuetype System.Collections.DictionaryEntry  
7 System.Collections.IDictionaryEnumerator.Entry { private hidebysig virtual  
8 final specialname valuetype System.Collections.DictionaryEntry get_Entry()  
9 }  
10 [C#]  
11 DictionaryEntry IDictionaryEnumerator.Entry { get; }
```

12 **Summary**

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

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1
2 **Dictionary<TKey,TValue>.Enumerator.System**
3 **.Collections.IDictionaryEnumerator.Key**
4 **Property**

```
5 [ILAsm]  
6 .property object System.Collections.IDictionaryEnumerator.Key { private  
7 hidebysig virtual final specialname object get_Key() }  
8  
9 [C#]  
10 object IDictionaryEnumerator.Key { get; }
```

10 **Summary**

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

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1
2 **Dictionary<TKey,TValue>.Enumerator.System**
3 **.Collections.IDictionaryEnumerator.Value**
4 **Property**

```
5 [ILAsm]  
6 .property object System.Collections.IDictionaryEnumerator.Value { private  
7 hidebysig virtual final specialname object get_Value() }  
8  
9 [C#]  
10 object IDictionaryEnumerator.Value { get; }
```

10 **Summary**

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

13

1
2 **Dictionary<TKey,TValue>.Enumerator.System**
3 **.Collections.IEnumerator.Current Property**

```
4 [ILAsm]  
5 .property object System.Collections.IEnumerator.Current { private  
6 hidebyref virtual final specialname object get_Current() }  
7  
8 [C#]  
9 object IEnumerator.Current { get; }
```

9 **Summary**

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

12