# Runtime Data Search

## RuntimeDataSearch Namespace

### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="/RuntimeObjectSearch" alt=" " /></td>
<td><strong>RuntimeObjectSearch</strong></td>
</tr>
</tbody>
</table>

### Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="/from/GetOptions" alt=" " /></td>
<td><strong>SearchOptions</strong></td>
</tr>
</tbody>
</table>

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Runtime Object Search

RuntimeObjectSearch Class

Search values in objects at runtime.

Inheritance Hierarchy

SystemObject  RuntimeDataSearch  RuntimeObjectSearch

Namespace: RuntimeDataSearch
Assembly: RuntimeDataSearch (in RuntimeDataSearch.dll) Version: 1.1.0.0 (1.1.0.0)

Syntax

```
public static class RuntimeObjectSearch
```

The RuntimeObjectSearch type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 S MakeKnown</td>
<td>Informs the debugger about the existence of the RuntimeObjectSearch class prior to using it in the immediate window.</td>
</tr>
<tr>
<td>🔄 S SearchRuntimeValue(Object, Object, String)</td>
<td>Search inside of an object hierarchy.</td>
</tr>
<tr>
<td>🔄 S SearchRuntimeValue(Object, Object, SearchOptions,</td>
<td>Search inside of an object hierarchy.</td>
</tr>
</tbody>
</table>
Int32, String)

See Also

Reference
RuntimeDataSearch Namespace

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Runtime Data Search

RuntimeObjectSearch Methods

The `RuntimeObjectSearch` type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://example.com/makeknown.png" alt="make known" /> MakeKnown</td>
<td>Informs the debugger about the existence of the <code>RuntimeObjectSearch</code> class prior to using it in the immediate window.</td>
</tr>
<tr>
<td><img src="https://example.com/searchruntimevalue.png" alt="search runtime value" /> SearchRuntimeValue(Object, Object, String)</td>
<td>Search inside of an object hierarchy.</td>
</tr>
<tr>
<td><img src="https://example.com/searchruntimevalueoptions.png" alt="search runtime value with options" /> SearchRuntimeValue(Object, Object, SearchOptions, Int32, String)</td>
<td>Search inside of an object hierarchy.</td>
</tr>
</tbody>
</table>

See Also

Reference

`RuntimeObjectSearch` Class

`RuntimeDataSearch` Namespace

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RuntimeObjectSearchMakeKnown Method

Informs the debugger about the existence of the RuntimeObjectSearch class prior to using it in the immediate window.

**Namespace:** RuntimeDataSearch  
**Assembly:** RuntimeDataSearch (in RuntimeDataSearch.dll) Version: 1.1.0.0 (1.1.0.0)

### Syntax

```csharp
public static void MakeKnown()
```

### Remarks

Place a call to this method earlier in the code than the moment you would like to break and search in the immediate window.

### See Also

Reference
- RuntimeObjectSearch Class
- RuntimeDataSearch Namespace

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Runtime Data Search

RuntimeObjectSearch

Method

Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SearchRuntimeValue(Object, Object, String)</td>
<td>Search inside of an object hierarchy.</td>
</tr>
<tr>
<td>SearchRuntimeValue(Object, Object, SearchOptions, Int32, String)</td>
<td>Search inside of an object hierarchy.</td>
</tr>
</tbody>
</table>

See Also

Reference

RuntimeObjectSearch Class
RuntimeDataSearch Namespace

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**Runtime Data Search**

**RuntimeObjectSearch**

**Search**

Method (Object, Object, String)

Search inside of an object hierarchy.

**Namespace:** RuntimeDataSearch

**Assembly:** RuntimeDataSearch (in RuntimeDataSearch.dll) Version: 1.1.0.0 (1.1.0.0)

**Syntax**

```csharp
public static ICollection<string> SearchRuntimeValue
    this Object target,
    Object searchValue,
    params string[] ignoredPaths
)
```

**Parameters**

- **target**
  - Type: SystemObject
  - Target object to search into.

- **searchValue**
  - Type: SystemObject
  - Value to search for.

- **ignoredPaths**
  - Type: SystemString
  - Paths or paths’ fragments to be ignored.

**Return Value**

- **Type:** ICollection<string>
  - A list of the hierarchy paths of the objects that match the searching
criteria.

**Usage Note**

In Visual Basic and C#, you can call this method as an instance method on any object of type `Object`. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](link) or [Extension Methods (C# Programming Guide)](link).

**See Also**

**Reference**
- ` RuntimeMethodObjectSearch Class`
- `SearchRuntimeValue Overload`
- `RuntimeDataSearch Namespace`

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Runtime Data Search

**Method** (Object, Object, SearchOptions, Int32, String)

Search inside of an object hierarchy.

**Namespace:** RuntimeDataSearch  
**Assembly:** RuntimeDataSearch (in RuntimeDataSearch.dll)  
**Version:** 1.1.0.0 (1.1.0.0)

### Syntax

```
public static ICollection<string> SearchRuntimeValue(  
    this Object target,  
    Object searchValue,  
    SearchOptions options,  
    int maximumDepth,  
    params string[] ignoredPaths
)
```

### Parameters

- **target**  
  Type: `System.Object`  
  Target object to search into.

- **searchValue**  
  Type: `System.Object`  
  Value to search for.

- **options**  
  Type: `RuntimeDataSearchSearchOptions`  
  Search options.
maximumDepth
   Type: SystemInt32
   Maximum hierarchical depth to search into.

ignoredPaths
   Type: SystemString
   Paths or paths' fragments to be ignored.

Return Value
   Type: ICollection<String>
   A list of the hierarchy paths of the objects that match the searching criteria.

Usage Note
   In Visual Basic and C#, you can call this method as an instance method on any object of type Object. When you use instance method syntax to call this method, omit the first parameter. For more information, see Extension Methods (Visual Basic) or Extension Methods (C# Programming Guide).

See Also

Reference
   RuntimeObjectSearch Class
   SearchRuntimeValue Overload
   RuntimeDataSearch Namespace

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## SearchOptions Enumeration

Search options.

**Namespace:** RuntimeDataSearch  
**Assembly:** RuntimeDataSearch (in RuntimeDataSearch.dll)  
**Version:** 1.1.0.0 (1.1.0.0)

### Syntax

```csharp
[FlagsAttribute]
public enum SearchOptions
```

### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>0</td>
<td>Search for a value in the entire hierarchy and do not stop after exceptions.</td>
</tr>
<tr>
<td>SearchNames</td>
<td>1</td>
<td>Implicitly searches the values.</td>
</tr>
<tr>
<td>StopAtFirstFind</td>
<td>2</td>
<td>Implicitly browses the entire hierarchy.</td>
</tr>
<tr>
<td>StopAfterException</td>
<td>4</td>
<td>Implicitly continues after exceptions.</td>
</tr>
<tr>
<td>IgnoreProperties</td>
<td>8</td>
<td>Ignore properties.</td>
</tr>
<tr>
<td>IgnoreFields</td>
<td>16</td>
<td>Ignore fields.</td>
</tr>
<tr>
<td>Symbol</td>
<td>Value</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>IgnoreArrays</td>
<td>32</td>
<td>Ignore arrays.</td>
</tr>
<tr>
<td>IgnoreEnumerables</td>
<td>64</td>
<td>Ignore IEnumerable.</td>
</tr>
<tr>
<td>CaseSensitive</td>
<td>128</td>
<td>Case sensitive comparison.</td>
</tr>
<tr>
<td>AllWord</td>
<td>256</td>
<td>Compare entire word.</td>
</tr>
</tbody>
</table>

See Also

Reference
RuntimeDataSearch Namespace

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