

BooleanArray Method Call

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A BooleanArray Method Call is a Complex Method Call that returns a BooleanArray.

- See [Methods](#) for **explanations** of the basics and for Code **examples** and for the **declaration** of Method Calls.
See [How to use Method Calls](#) for general information on using Method Calls.
- Go to the complete list of all [Complex Method Calls](#)

Code Example

The example exists of an Operation and a Form. In the operation the Entity Collection(s) and Dataview(s) are defined. The definitions of Lists and Method Call(s) for composing the data, based on input from the user, are also defined in the Forms.

Code example Operation

```
protected override IForm CreateStartupForm() { return new BooleanArrayMethodCallDemoFrm(this); }public IEntityCollection<Boolean
```

```

ArrayMethodCallDemoEntity> BooleanArray{    get { return Property
(() => new VolatileTable("boolean array").Select<BooleanArrayMet
hodCallDemoEntity>().All()); }}public IDataView<BooleanArrayMeth
odCallDemoEntity> BooleanArrayView{    get { return Property(() =
> BooleanArray.ToView()); }}public IEntityCollection<ArticleEnti
ty> Articles{    get { return Property(() => Db.Article.Select<A
rticleEntity>().All()); }}

```

Explanation Code example Operation

1. **Lines 1-4:** Definition of the Form (see code of the Form below).
2. **Lines 6-9:** Definition of a Volatile Table. We fill this in the Form (below).
3. **Lines 11-14:** Definition of the View, which is used to display the data in the Form.
4. **Lines 8 and 11:** The necessary BooleanArrayMethodCallDemoEntity is defined elsewhere. Type 'Volatile Table' in the Search box to read more about the working of the Volatile Table.
5. This BooleanArrayMethodCallDemoEntity is also used in the Form below, on line 14.
6. **Lines 16-19:** We also need articles for this Code example.

Note: In this example, a Volatile Table is used. It is also possible to make a BooleanArray based on a Database Table.

Code example Form

```

public BooleanArrayMethodCallDemoFrm(BooleanArrayMethodCallDemoO
p operation) : base(operation){}protected override IUElement Cr
eateGui(){    return new VBox    {        new HBox        {
    new GroupBox("example",2, alignV:AlignV.Top)        {
        new DataGrid<BooleanArrayMethodCallDemoEntity>(Operatio
n.BooleanArrayView, showColumnHeaders:false)        {
            e => new CheckColumn(e.Value)        }
        },        new HBox(alignH:AlignH.Fill)        {

```

```

        new Button(GetBooleanArray()),           EmptySpace.FillH
,         new Button(Close())           }   };}private BooleanArra
y ComposeBooleanArray(){   return Method(() =>   {   return
new Body   {   new Return(new BooleanArray(Operation
.Articles.Select(f => f.Active).ToBooleanArray()))   };   })
;}private IMethodCall GetBooleanArray(){   return Method(() =>
{   var newArrayItem = Operation.BooleanArray.CreateItemRef
erence();   return new Body   {   Operation.Bool
eanArray.DeleteAll(),   array.Assign(ComposeBooleanArray
()),   array.Foreach(arrayItem => new Body   {
newArrayItem.Assign(Operation.BooleanArray.New()),
newArrayItem.Value.Assign(arrayItem)   })
};   })   .SetWorkDescription("get boolean array")   .SetI
mage(WikiImages.Directory)   .Call();}

```

Warning:

All Method Calls and Complex Method Calls **need** a new Return(). They are like C# functions that need a return type.

The exception is an IMethodCall. In C# this is like a void method.

Explanation Code example Form

- **Lines 6-28:** The definition of the form.
- **Line 14:** The View, based on the Entity (see explanation 3 and 4 of the Operation), are passed to a DataGrid.
- **Lines 30-39:** This is a private property of the type BooleanArray. In it, the list is composed and returned (line 36). This BooleanArray was defined in the Operation as a Volatile Table.
- **Line 36:** Building up this BooleanArray is done with the function .ToBooleanArray that collects the records collected with the Select.
- **Lines 41-60:** This MethodCall, named GetBooleanArray(), starts a new instance of BooleanArray on **line 45**.

- **Line 48:** any previous data is deleted.
- **Line 49-54:** The composed BooleanArray is assigned to an array. By looping through this array (line 50) the items are assigned (line 52-53).

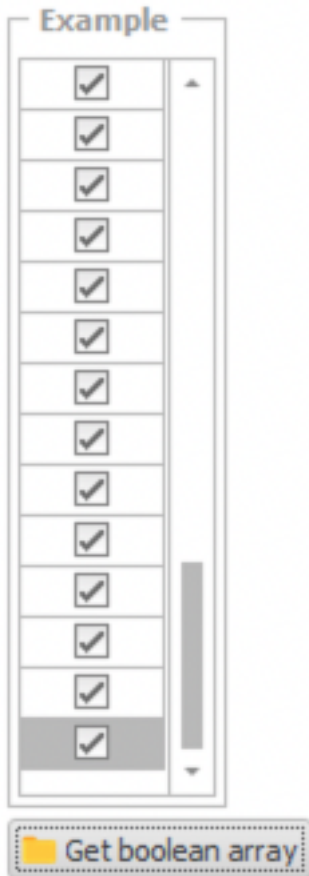
Example of the result

A form like the one defined above, could look like this.

When starting the application:



After clicking the button:



Online URL:

<https://wiki-ai-framework.abstract-it.nl/article/booleanarray-method-call-439.html>

```
SyntaxHighlighter.config.stripBrs=true; SyntaxHighlighter.all();
```