

Case 13.1. First End Of Association

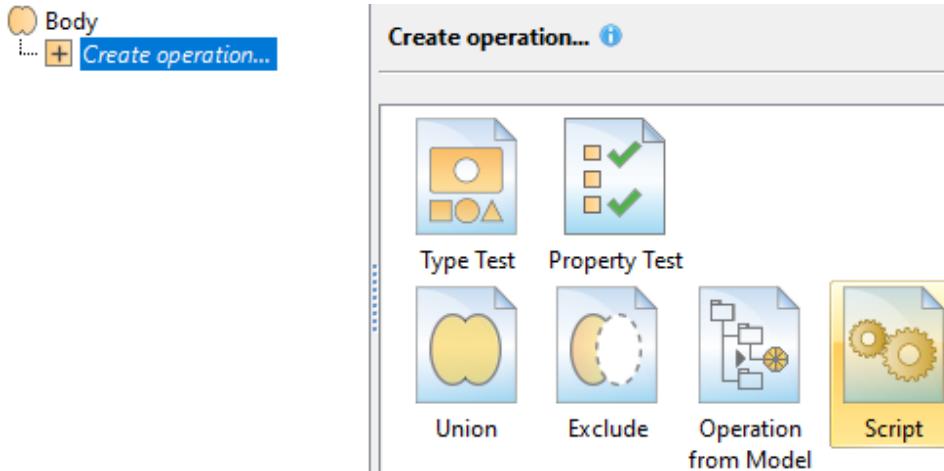
To create the First End Of Association operation for coloring Associations between a Block and a Use Case

1. Create an **Opaque Behavior** named 'First End Of Association'.
2. Right-click the **Opaque Behavior** element and open its **Specification window**. Do one of the following:
 - a. Click the plus sign next to the **Owned Parameter** property to edit it.

 If you cannot see the **Owned Parameter** property, make sure the **Expert** mode is enabled.

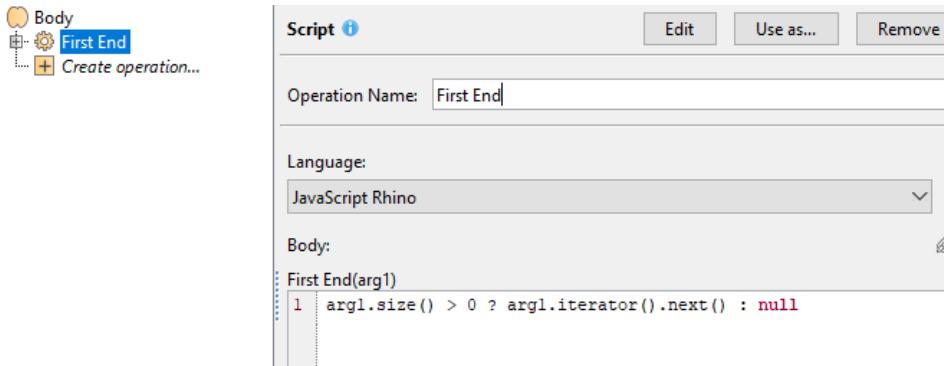
- b. On the left side menu, select **Parameters > Create**.
3. In the **Specification of Parameter window**, set **Name** to **Association**, **Type** to **Association**, and **Direction** to **in**. Click **Back**.
4. In the **Opaque Behavior Specification window**, click three dots  next to the **Body and Language** property to edit it.
5. In the **Body and Language dialog**, select **Language > StructuredExpression**.
6. Click **Create operation > Script**.

 If you cannot see the **Script** operation, make sure the **Expert** mode is enabled.



7. Set the **Operation Name** to 'First End'.
8. From the **Language** drop-down list, select **Javascript Rhino**.
9. Insert the following script as the **Body**:

```
Javascript Rhino
arg1.size() > 0 ? arg1.iterator().next() : null
```



10. Select First End > arg1 > Reset.

The screenshot shows the 'Script:arg1' dialog box. On the left, a tree view shows 'Body' > 'First End' > 'arg1 = THIS'. On the right, the 'arg1' operation is selected in the list, with its details shown in the form fields: Operation Name: 'arg1', Parameter Name: 'arg1', and Value: 'THIS'. There are 'Edit', 'Use as...', 'Reset', and 'Remove' buttons at the top.

11. Select First End > arg1 > Metachain Navigation.

The screenshot shows the 'Script:arg1' dialog box. On the left, a tree view shows 'Body' > 'First End' > 'arg1 = null'. On the right, the 'arg1' operation is selected in the list, with its details shown in the form fields: Parameter Name: 'arg1'. Below the form, there is a section titled 'Operations' with two options: 'Simple Navigation' and 'Metachain Navigation'. 'Metachain Navigation' is highlighted with a yellow background.

12. Click Insert.

13. Under Metaclass or Stereotype, select Association, and under Property, select End Type.

The screenshot shows the 'Script:arg1' dialog box. On the left, a tree view shows 'Body' > 'First End' > 'arg1 = Metachain Navigation1'. On the right, the 'arg1' operation is selected in the list, with its details shown in the form fields: Operation Name: 'Metachain Navigation1', Parameter Name: 'arg1'. Below the form, there is a table with two rows. The first row has columns 'Metaclass or Stereotype' and 'Property'. The second row has columns 'Association' and 'End Type'. Both 'Association' and 'End Type' are highlighted with a blue background. There are 'Insert' and 'Remove' buttons to the right of the table.

14. Click OK.

Sample model

The model used in these examples is the *Case Studies for Querying the Model* sample model. To open this model, you need to download [case studies for querying the model.mdzip](#).