


# Case 13. Coloring Associations between Block and Use Case

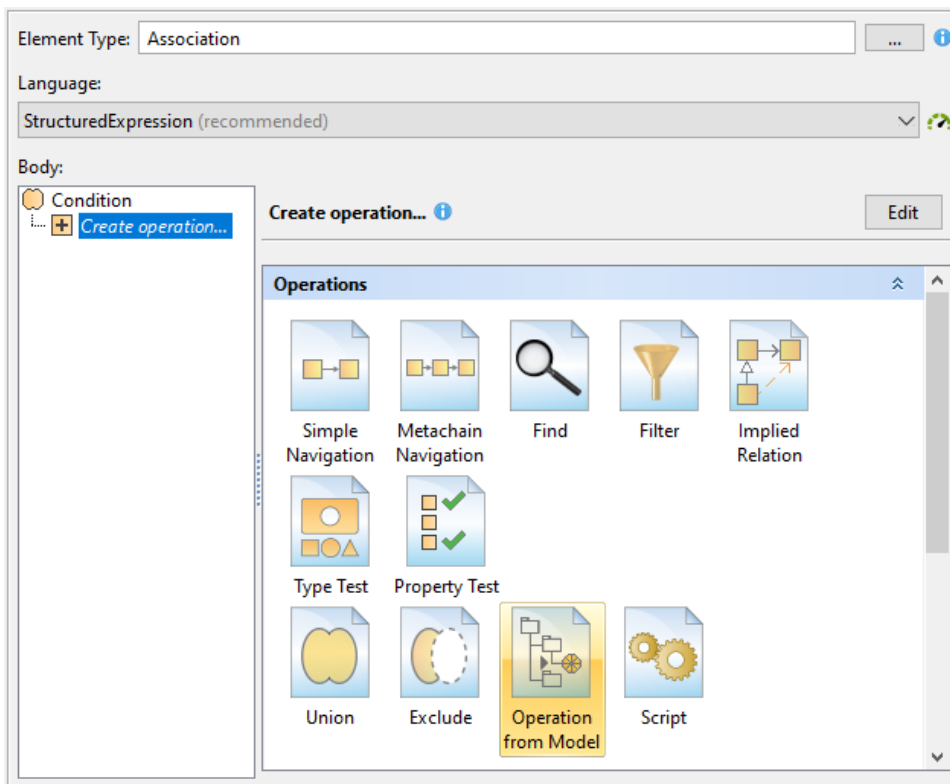
Prerequisites:

- [Case 13.1. First End Of Association](#)
- [Case 13.2. Second End Of Association](#)

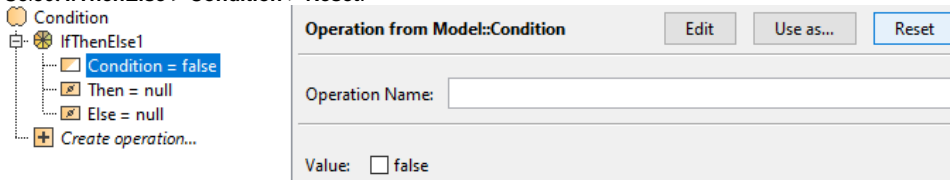
To color Associations between a Block and a Use Case

1. Create a **Legend** and a **Legend Item**.
2. Right-click the **Legend Item** and open its **Specification window**.
3. Click three dots [...] next to the **Adornment** property to **specify it**. Click **OK**.
4. Click three dots [...] next to the **Elements by Condition** property to edit it. **Elements by Condition** dialog opens.
5. In the **Elements by Condition** dialog, set the **Element Type** to **Association**.
6. Select **Create Operation > Operation from Model > IfThenElse**.

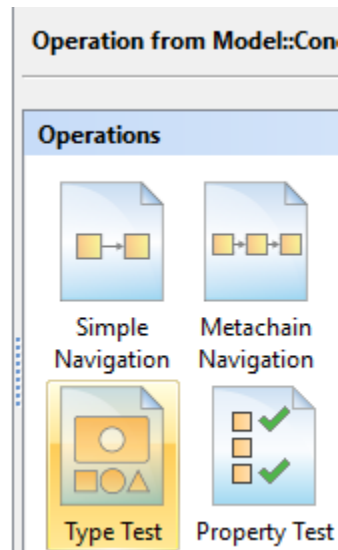
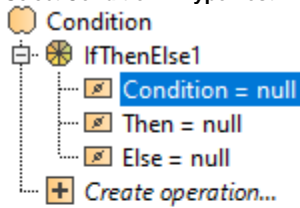
 If you cannot see the **IfThenElse** operation, make sure the **Apply Filter** box is not checked.



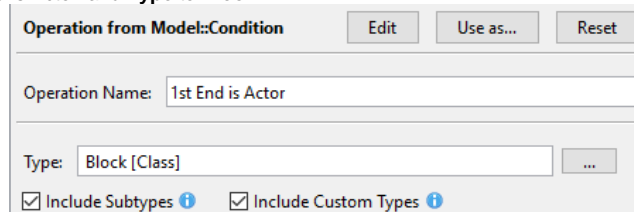
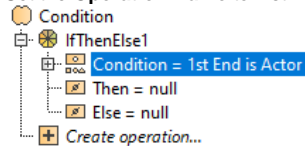
7. Select **IfThenElse > Condition > Reset**.



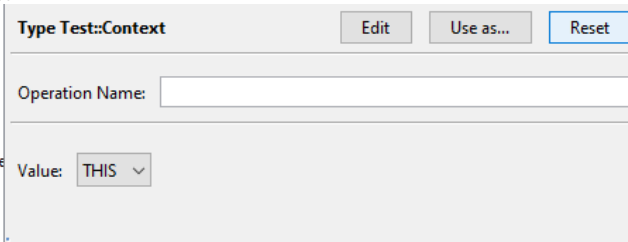
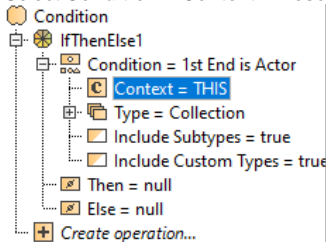
8. Select **Condition > Type Test**.



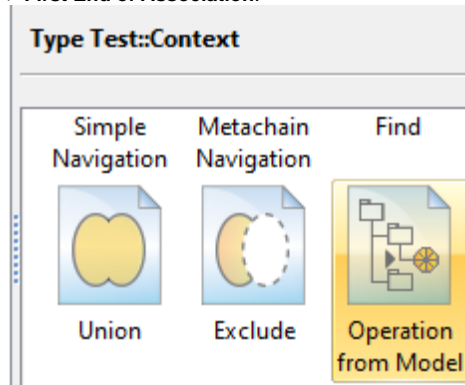
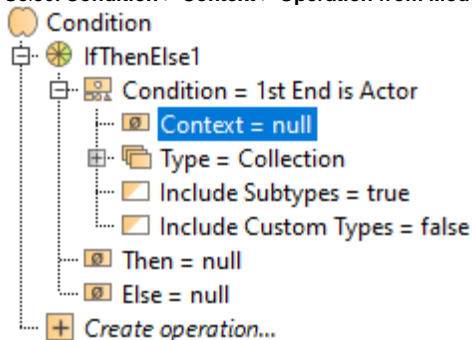
9. Set the **Operation Name** to '1st End is Actor' and **Type** to **Block**.



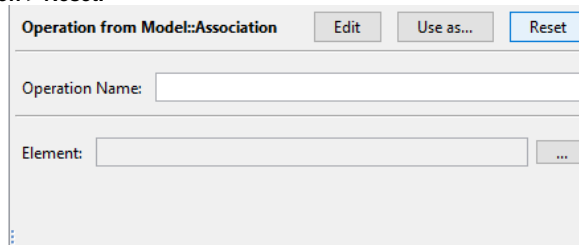
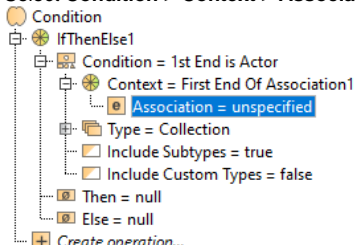
10. Select **Condition > Context > Reset**.



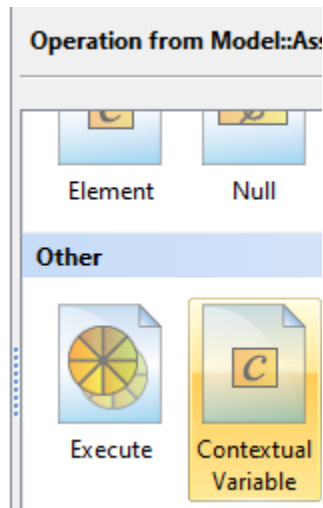
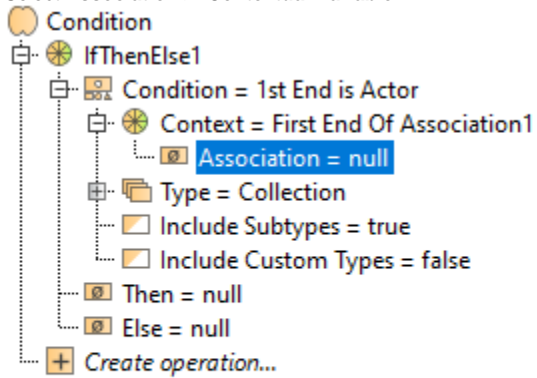
11. Select **Condition > Context > Operation from Model > First End of Association**.



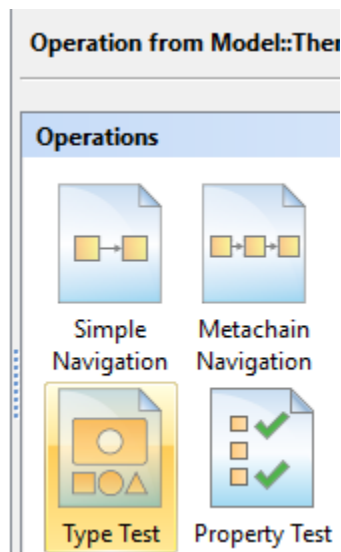
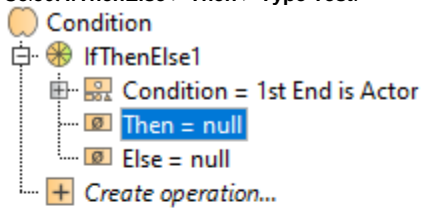
12. Select **Condition > Context > Association > Reset**.



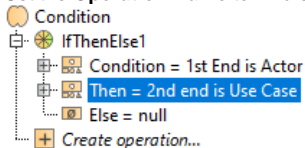
13. Select **Association > Contextual Variable**.



14. Select **IfThenElse > Then > Type Test**.



15. Set the **Operation Name** to '2nd end is Use Case' and **Type** to **UseCase**.



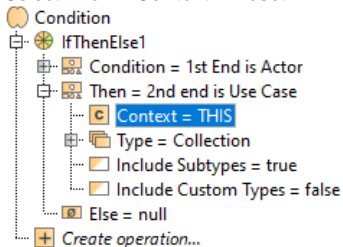
**Operation from Model::Then** Edit Use as... Reset

Operation Name: 2nd end is Use Case

Type: UseCase ...

☒ Include Subtypes ⓘ ☐ Include Custom Types ⓘ

16. Select **Then > Context > Reset**.



**Type Test::Context** Edit Use as... Reset

Operation Name:

Value: THIS ▾

17. Select **Then > Context > Operation from Model > Second End of Association.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Context = null

Type = Collection

Include Subtypes = true

Include Custom Types = false

Else = null

Create operation...

Type Test::Context

Operations

Simple Navigation

Metachain Navigation

Find

Union

Exclude

Operation from Model

18. Select **Then > Context > Association > Reset.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Context = Second End Of Association1

Association = unspecified

Type = Collection

Include Subtypes = true

Include Custom Types = false

Else = null

Create operation...

Operation from Model...

Edit

Use as...

Reset

Operation Name:

Element:

19. Select **Association > Contextual Variable.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Context = Second End Of Association1

Association = null

Type = Collection

Include Subtypes = true

Include Custom Types = false

Else = null

Create operation...

Operation from Model::Ass

Other

Execute

Contextual Variable

20. Select **IfThenElse > Else > Operation from Model > IfThenElse.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Else = null

Create operation...

Operation from Model::Else

Type Test

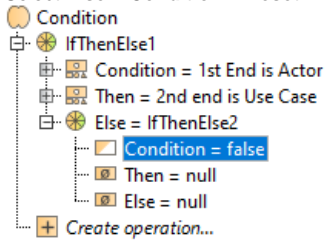
Property Test

Union

Exclude

Operation from Model

21. Select **Else > Condition > Reset**.



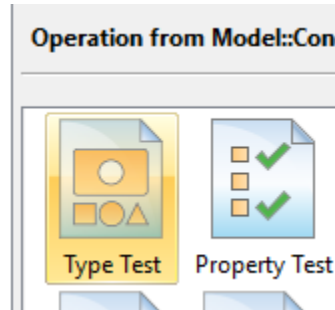
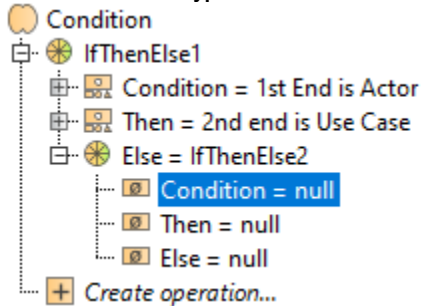
Operation from Model::C...

Edit Use as... Reset

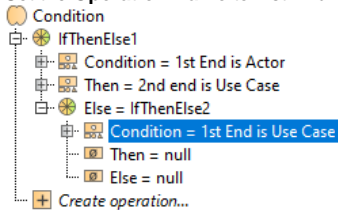
Operation Name:

Value: ☐ false

22. Select **Condition > Type Test**.



23. Set the **Operation Name** to '1st End is Use Case' and **Type** to **UseCase**.



Operation from Model::Condition

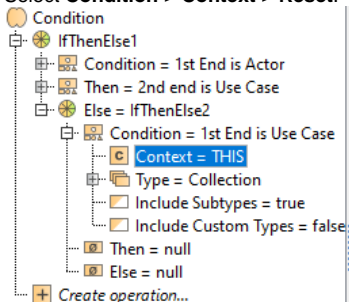
Edit Use as... Reset

Operation Name: 1st End is Use Case

Type: UseCase

☒ Include Subtypes ☐ Include Custom Types

24. Select **Condition > Context > Reset**.



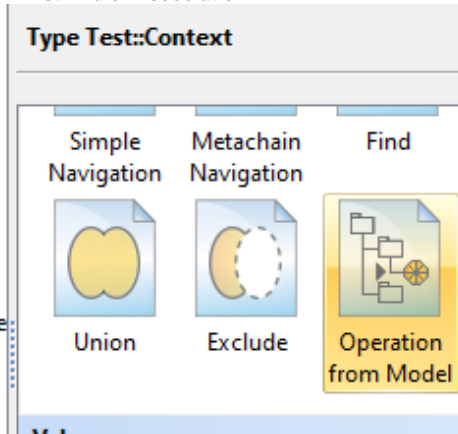
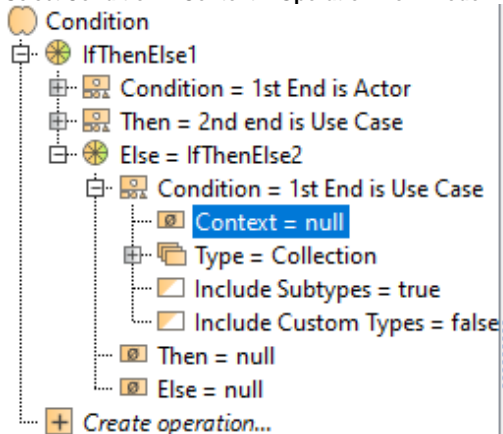
Type Test::Context

Edit Use as... Reset

Operation Name:

Value: THIS

25. Select **Condition > Context > Operation from Model > First End of Association**.



26. Select **Condition > Context > Association > Reset.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Else = IfThenElse2

Condition = 1st End is Use Case

Context = First End Of Association1

Association = unspecified

Type = Collection

Include Subtypes = true

Include Custom Types = false

Then = null

Else = null

Create operation...

Operation from Model::As...

Edit

Use as...

Reset

Operation Name:

Element:

27. Select **Association > Contextual Variable.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Else = IfThenElse2

Condition = 1st End is Use Case

Context = First End Of Association1

Association = null

Type = Collection

Include Subtypes = true

Include Custom Types = false

Then = null

Else = null

Create operation...

Operation from Model::Ass

Element

Null

Other

Execute

Contextual Variable

28. Select **Else > Then > Type Test.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Else = IfThenElse2

Condition = 1st End is Use Case

Then = null

Else = null

Create operation...

Operation from Model::Th...

Navigation

Navigation

Type Test

Property Test

29. Set the **Operation Name** to '2nd End is Actor' and **Type** to **Block**.

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Else = IfThenElse2

Condition = 1st End is Use Case

Then = 2nd End is Actor

Else = null

Create operation...

Operation from Model::Th...

Edit

Use as...

Reset

Operation Name:

Type:

☒ Include Subtypes
 ☐ Include Custom Types

30. Select **Then > Context > Reset.**

Condition

IfThenElse1

Condition = 1st End is Actor

Then = 2nd end is Use Case

Else = IfThenElse2

Condition = 1st End is Use Case

Then = 2nd End is Actor

Context = THIS

Type = Collection

Include Subtypes = true

Include Custom Types = false

Else = null

Create operation...

Type Test::Context

Edit

Use as...

Reset

Operation Name:

Value:

31. Select **Then > Context > Operation from Model > Second End of Association**.

The 'Type Test::Context' dialog box is shown with the 'Operation from Model' button highlighted. The background tree view shows the following structure:

- Condition
  - IfThenElse1
    - Condition = 1st End is Actor
    - Then = 2nd end is Use Case
    - Else = IfThenElse2
      - Condition = 1st End is Use Case
      - Then = 2nd End is Actor
        - Context = null (selected)
        - Type = Collection
        - Include Subtypes = true
        - Include Custom Types = false
      - Else = null

32. Select **Then > Context > Association > Reset**.

The 'Operation from Model::As...' dialog box is shown with the 'Reset' button highlighted. The background tree view shows the following structure:

- Condition
  - IfThenElse1
    - Condition = 1st End is Actor
    - Then = 2nd end is Use Case
    - Else = IfThenElse2
      - Condition = 1st End is Use Case
      - Then = 2nd End is Actor
        - Context = Second End Of Association1
          - Association = unspecified (selected)
          - Type = Collection
          - Include Subtypes = true
          - Include Custom Types = false
        - Else = null

33. Select **Association > Contextual Variable**.

The 'Operation from Model::Ass' dialog box is shown with the 'Contextual Variable' button highlighted. The background tree view shows the following structure:

- Condition
  - IfThenElse1
    - Condition = 1st End is Actor
    - Then = 2nd end is Use Case
    - Else = IfThenElse2
      - Condition = 1st End is Use Case
      - Then = 2nd End is Actor
        - Context = Second End Of Association1
          - Association = null (selected)
          - Type = Collection
          - Include Subtypes = true
          - Include Custom Types = false
        - Else = null

34. Select **Then > Else > Boolean > false**.

The 'Operation from Model::Else' dialog box is shown with the 'Boolean' button highlighted. The background tree view shows the following structure:

- Condition
  - IfThenElse1
    - Condition = 1st End is Actor
    - Then = 2nd end is Use Case
    - Else = IfThenElse2
      - Condition = 1st End is Use Case
      - Then = 2nd End is Actor
        - Else = null (selected)

35. 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](#).