

EB GUIDE tutorial

Making an ellipse move across the screen

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1. Tutorial: Making an ellipse move across the screen

NOTE

Default window layout



All instructions and screenshots of this user manual use the default window layout. If you want to follow the instructions, we recommend to reset the EB GUIDE Studio window to default layout by selecting **Layout > Reset to default layout**.

The following instructions guide you through the process of animating an ellipse so that it continually moves across the screen when the simulation starts.

Approximate duration: Five minutes.



Adding widgets

In the following steps, you add three widgets to the view and organize the hierarchy of the widgets.

Prerequisite:

- The content area displays the Main state machine.
- The Main state machine contains an initial state and a view state.
- The initial state has a transition to the view state

Step 1

In the content area, double-click the view state.

The view is displayed in the content area.

Step 2

Drag an ellipse from the **Toolbox** into the view.

Step 3

Drag an animation from the **Toolbox** into the ellipse.

Step 4

In the **Navigation** component, click the animation, and press the **F2** key. Rename the animation to MyAni-mation.

Step 5

Drag a linear interpolation integer widget from the **Toolbox** into the **Navigation** component and drop it so that it becomes a child widget of the animation.

Now, if you start the simulation, an ellipse is displayed in a view. The ellipse does not move yet.





Adding a user-defined property of type Conditional script

As a next step, you add a user-defined property to the ellipse. With the conditional script property, rendering the ellipse during simulation starts the animation.

Prerequisite:

You completed the previous instruction.

Step 1

Select the ellipse.

Step 2

In the **Properties** component, go to the **User-defined properties** category, and click +.

A menu expands.

Step 3

In the menu, click Conditional script.

A user-defined property of type Conditional script is added to the ellipse.

Step 4

Rename the property to startAnimation.

Step 5

Next to the startAnimation property, click Edit.

A script editor opens in the content area.

Step 6

Enter the following EB GUIDE Script:

```
function(v:arg0::bool)
    {
    f:animation_play(v:this->MyAnimation)
    }
}
```



Making the animation visible

The following instructions guide you through the process of making the animation visible.

Prerequisite:

You completed the previous instruction.



Step 1

Select the linear interpolation integer widget.

Step 2

In the **Properties** component, go to the target property, and click the button next to the property.

A menu expands.

Step 3

In the menu, click Add link to widget property.

A dialog opens.

Step 4

In the dialog, go to the ellipse, and select its x property.

Step 5

Click Accept.

The dialog closes. The button is displayed next to the target property.

Step 6

Link the end property to the view's width property.

With these settings, when the animation starts, the x property of the ellipse changes from zero to the width of the view. Thus the ellipse moves from the left boundary to the right boundary of the view.

Step 7

To make the animation run in infinite repetitions, enter 0 in the repeat property.

Step 8

Save the project.

Step 9

To start the simulation, click ▷ in the command area.

Result:

The ellipse continually moves from the left side of the view to the right side of the view.