



## Visualization Elements

This example shows the use of some visualization elements and events, e.g. working with external pictures or rotating objects with mouse events.

### Product description

To include an external image, an Image Pool object must be added. The included images must use the ID from the Image Pool for the Static ID property.

Some mouse events are directly supported from the visualization (OnClick, OnMouseDown, OnMouseLeave, OnMouseEnter, OnMouseUp and OnMouseMove). Additional ones (double click, dragging) were implemented in the "MouseEvents" program. This example changes the color of an object when an event occurs.

Another function is the rotation. This function can distinguish between interior and normal rotation. In both cases the element rotates around the center point of the element. With the interior rotation, the element additionally rotates itself, whereas with the normal rotation it does not.

### More information

Main: Calls the following programs.

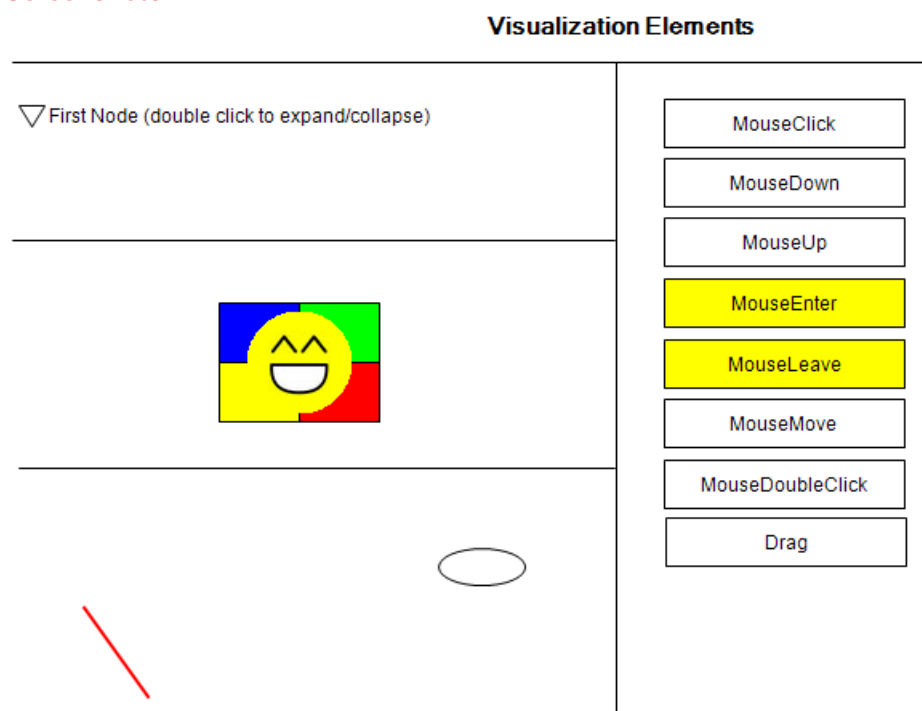
MouseEvents: This program implements the double click and dragging for object. A timer is used for the double click to wait for the second mouse click. To implement the dragging, a new position for the object is calculated when the mouse is pressed and moving.

Node: This program is responsible for expanding and collapsing the node by a double click. This is also realized with a timer for the double click.

Rotation: For each degree of a circle the position is calculated.

Visualization: It is important that the time interval for the visualization task is short in order to get fast feedback from the user interface.

### Screenshots



## General information

**Manufacturer:**

3S-Smart Software Solutions GmbH  
Memminger Strasse 151  
87439 Kempten  
Germany

**Support:**

<https://support.codesys.com>

**Item:**

Visualization Elements

**Item number:**

000023

**Sales:**

CODESYS Store

<https://store.codesys.com>

**Included in delivery:**

- CODESYS software and / or license key with billing information
- For training courses and events: Booking confirmation

## System requirements and restrictions

<b>Programming System</b>	CODESYS Development System Version 3.5.0.0 or higher
<b>Runtime System</b>	CODESYS Control Version 3.5.0.0
<b>Supported Platforms/ Devices</b>	All
<b>Additional Requirements</b>	-
<b>Restrictions</b>	-

*Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact [sales@codesys.com](mailto:sales@codesys.com).*

*Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.*