Scroll Event

Block Group:	Logic
Icon:	

Listens for a scroll event, and returns scroll position and dimensions when the event occurs.

For information on using dataflow blocks, see Dataflow.

Input/Output Properties

These properties can take input and give output.

- input *(event)*
- active *(boolean)*
- fastResponse *(boolean)*

input specifies the event on which the scroll listener starts reporting data. By default (when the block is added from the palette), **input** is bound to the parent's onScroll event, so the listener returns data whenever the parent is scrolled. Note that the onScrollEvent property does not exist for all component types.

active determines whether the block is currently listening.

- **TRUE** (default): The output properties of the block update whenever the user scrolls.
- **FALSE**: The output properties of the block do not update.

fastResponse determines whether the fastResponse feature is enabled. Use this feature when you troubleshoot performance speed issues relating to this block.

- **TRUE**: When the event is received, pending dataflow updates are run immediately, so the response is as fast as possible. This could cause other actions to be delayed to the next frame.
- **FALSE**: This is the default behavior.

This property is not shown on the block.

Output Properties

These properties can give output. They cannot take input.

- event *(string)*

- scrollLeft *(number)*
- scrollTop *(number)*
- scrollLeftMax *(number)*
- scrollTopMax *(number)*

event returns the type of event that triggered this block.

scrollLeft returns the difference in pixels between the left edge of the content and the left edge of the portion currently scrolled to.

scrollTop returns the difference in pixels between the top edge of the content and the top edge of the portion currently scrolled to.

scrollLeftMax returns the maximum horizontal scroll position. It is not shown on the block.

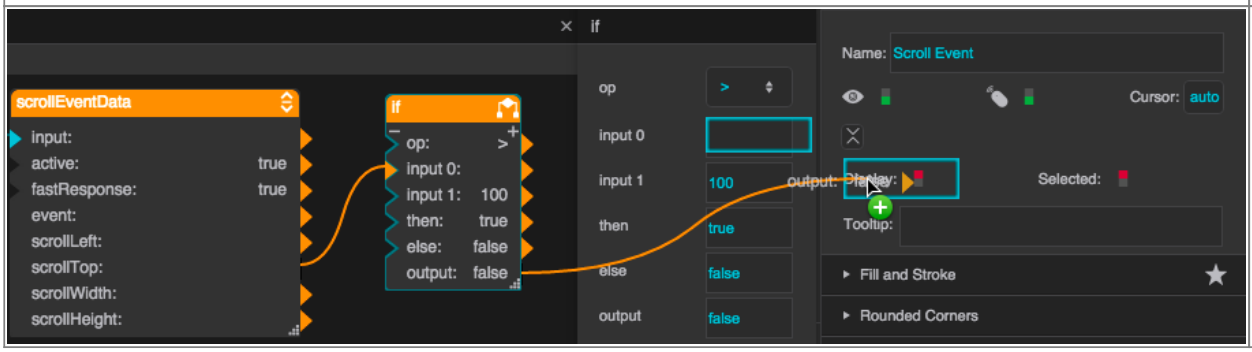
scrollTopMax returns the maximum vertical scroll position. It is not shown on the block.

Remarks

- Scrolling the component in Edit mode does not trigger a scroll event.
- If the onScrollEvent property does not exist for the component type, the listener will not function unless **input** is changed to a different event.
- onScrollEvent exists for groups and the Stage. It does not exist for page includes and text components.

Model

This is a basic use of the block.

Dataflow Model	Description
	When the scrollTop property is greater than 100, a pop-up shape is displayed.

Use Case

Scroll Event example video

To cause a pop-up to appear when the user scrolls below a certain position:

1. Insert a group.
2. Add content to the group that is vertically larger than its bounds, such as a text component with several lines.
3. Enable vertical scrolling for the group.
4. Create a second element next to the group, such as a shape. This is your pop-up.
5. Open dataflow for the group, and add a Scroll Event block and an If block.
6. Configure the If block as follows:
    1. For **op**, select > (greater than).
    2. Bind the **scrollTop** property of the Scroll Event block to **input 0**.
    3. For **input 1**, type `100`.
    4. For **then**, type `true`.
    5. For **else**, type `false`.
7. Select the pop-up element.
8. Bind the **output** property of the group's If block to the Display property of the shape.

    To find the Display property for the pop-up, expand the bottom section of the top group of properties.

9. Save the file, and refresh your browser.

    Now, in Preview mode, the pop-up appears only when the **scrollTop** value is greater than 100.

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