

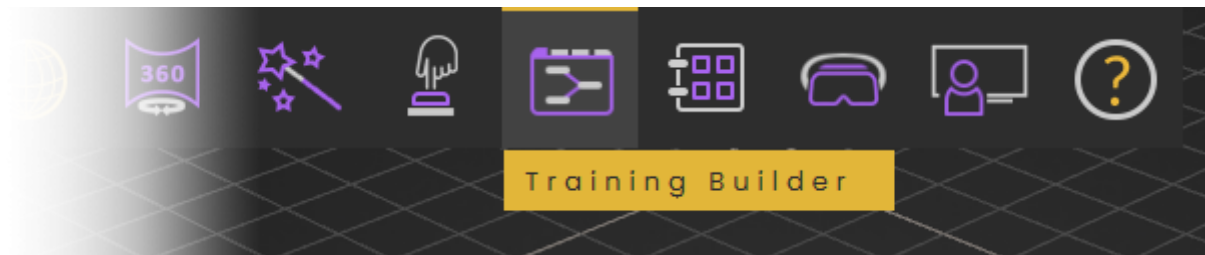
# Introduction

The Dynamic Training Builder represents the next-generation interaction definition system within the Training Builder, offering enhanced capabilities with more responses and events. It allows for the dynamic introduction of multiple node queries into a single system and the removal of these nodes during runtime, providing unparalleled flexibility. This advanced system is packed with exclusive features that elevate the overall user experience, making it a powerful tool for creating complex and responsive training simulations.

## Accessing the Dynamic Training Builder

The Dynamic Training Builder is available in **SimLab Composer Mechanical and Ultimate Edition** as well as **VR Studio Pro Edition**.

To access it, simply run the Training Builder from the top workbench.





Nodes to Responses, dictating how the system reacts to changes or interactions.

## Responses

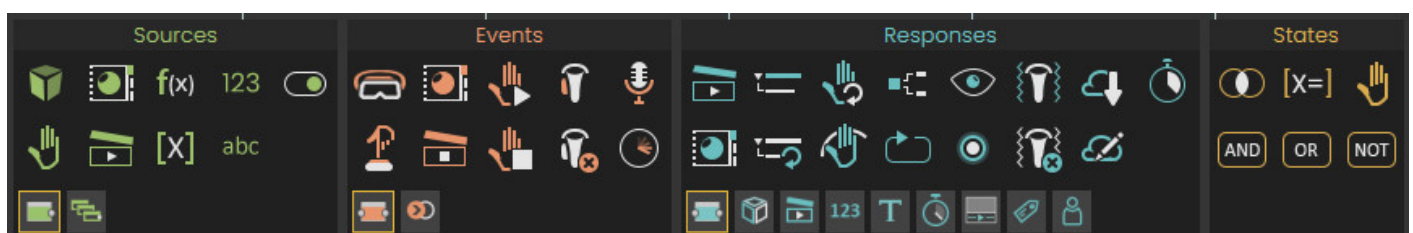
Responses are actions or outcomes triggered by Events. They dictate what happens when specific conditions are met, such as playing an animation, changing a scene, or altering an object's state. Responses connect to Events to define the system's behavior and ensure the interaction system reacts dynamically to various triggers.

## States

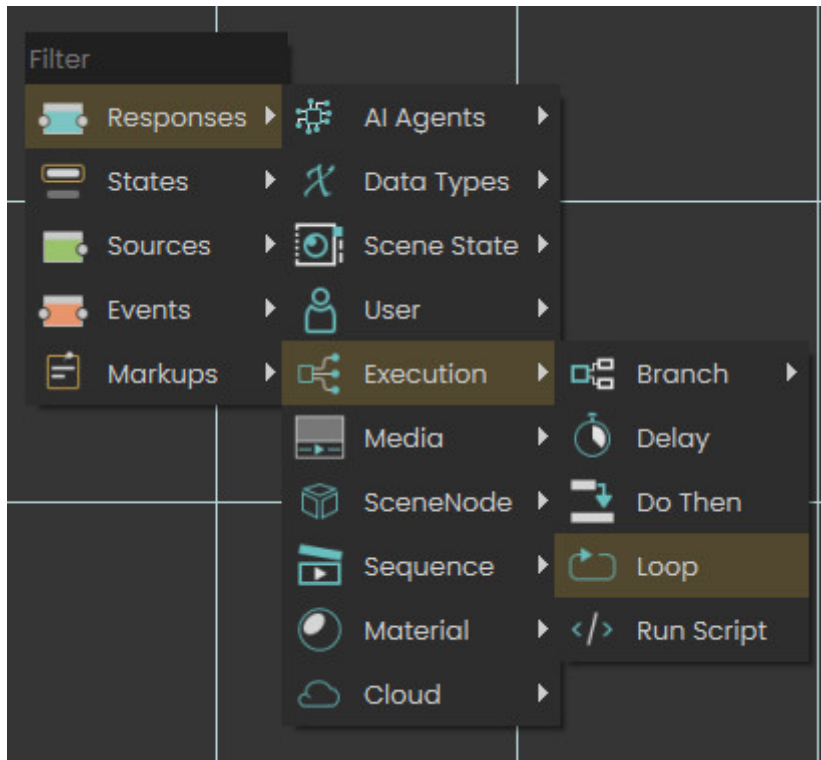
In the Training Builder, State Nodes represent ongoing conditions rather than single triggers. They include nodes for monitoring overlap, variable values, and object grabbing states, as well as logical operations like "and," "or," and "not." State Nodes can trigger responses similarly to events, but they reflect persistent states within the interaction system rather than instantaneous actions.

## Adding Nodes to the Diagram

To add nodes to the diagram simple click on one of the icons in the top bench or drag and drop them into the diagram



An additional method to create nodes is to use the **context menu** that appears when right clicking in an empty area of the diagram.



In the context menu you can navigate towards the nodes you want to create through a submenu system or you can type in the name of a node in the **filter** field to show only the related nodes.

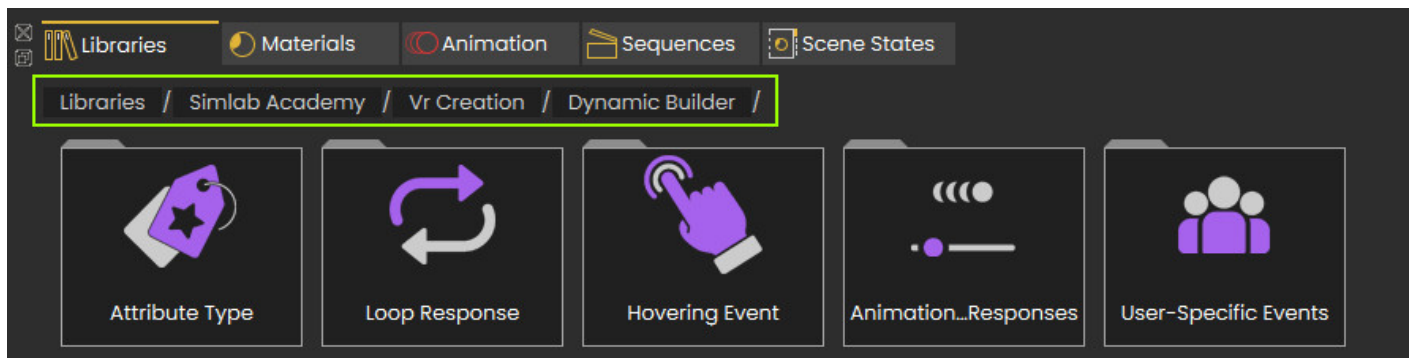
**Note** : In addition to the nodes available in the nodes bench, the context menu features more advanced nodes that aren't listed there. Feel free to explore these additional options as well.

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## Learn More

<https://www.youtube.com/embed/1EtXHZ1tcBI>

To learn more about utilizing the Dynamic Training Builder you can visit our ever-expanding **SimLab Academy**, accessible from the bottom library in SimLab Composer and SimLab VR Studio, there you will find video tutorials with examples that would help you unleash the full potentials of the Dynamic Training Builder.



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Feel free to reach out to us on our Discord!

 SimLab Discord Community

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