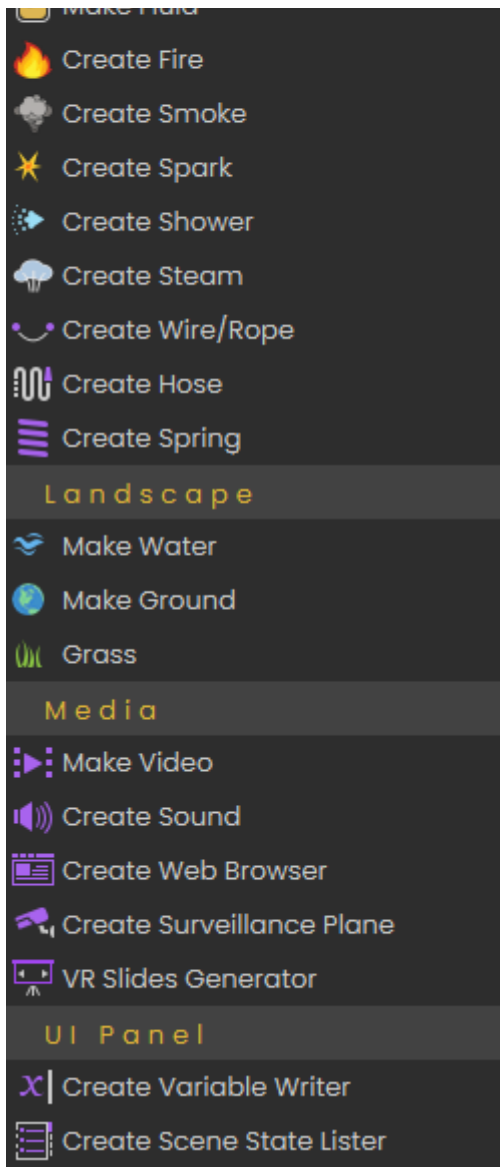


# VR Effects / Media Menu

This menu allows the user to add visual effects and dynamic elements to the VR experience.

It is organized into the following groups:

- **Particle**
- **Landscape**
- **Media**
- **UI Panels**



# Particles Group

Includes the below visual effects supported in SimLab Composer:

[Make Fluid](#)

[Create Fire](#)

Create Smoke

Create Spark

Create Shower

Create Steam

Create Wire/Rope

Create Hose

Create Spring

## Make Fluid

Enables users to convert selected 3D shapes into fluids. To learn more about this feature check the below tutorial:

<https://www.youtube.com/embed/mVi7wBasDrg>

## Create Fire and Smoke

Enables the user to add a fire effect to the scene, this can be a large trailing fire, a stove, or a candle.

The fire effect automatically includes the smoke option to be shown with the fire. If the user wants Smoke alone without fire, then **Create Smoke** can be used.

The following tutorial shows the process of creating fire and smoke in SimLab Composer

<https://www.youtube.com/embed/i0RoYT5QjX0>

## Create Spark

The spark effect can be used to show electrical sparks or welding effects. The following tutorial shows, how to create a Spark effect in SimLab Composer

<https://www.youtube.com/embed/8ErcaPylCl4>

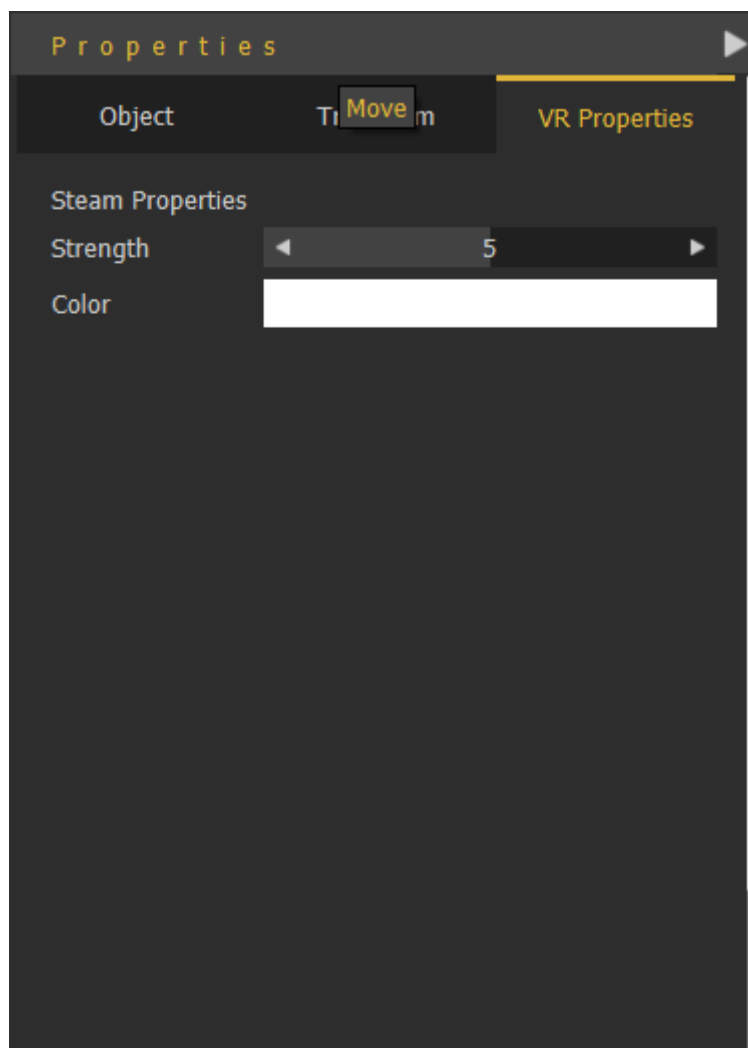
## Create Shower

Creating moving water or liquid effect in SimLab Composer can be done using the shower effect. It allows the user to control the color, speed, and strength of water flow. The following tutorial shows the process of creating the Shower effect in SimLab Composer

<https://www.youtube.com/embed/fNQ4lmWHhdY>

## Create Steam

Creates steam effect in VR experience with the VR Properties shown below. The user can change the steam strength and color in the Properties dialog.



## Create Wire/Rope

Creates connecting wires in the scene, like connecting the soldering kit shown below with its electric plug.



The following tutorial shows the process of creating a wire in SimLab Composer.

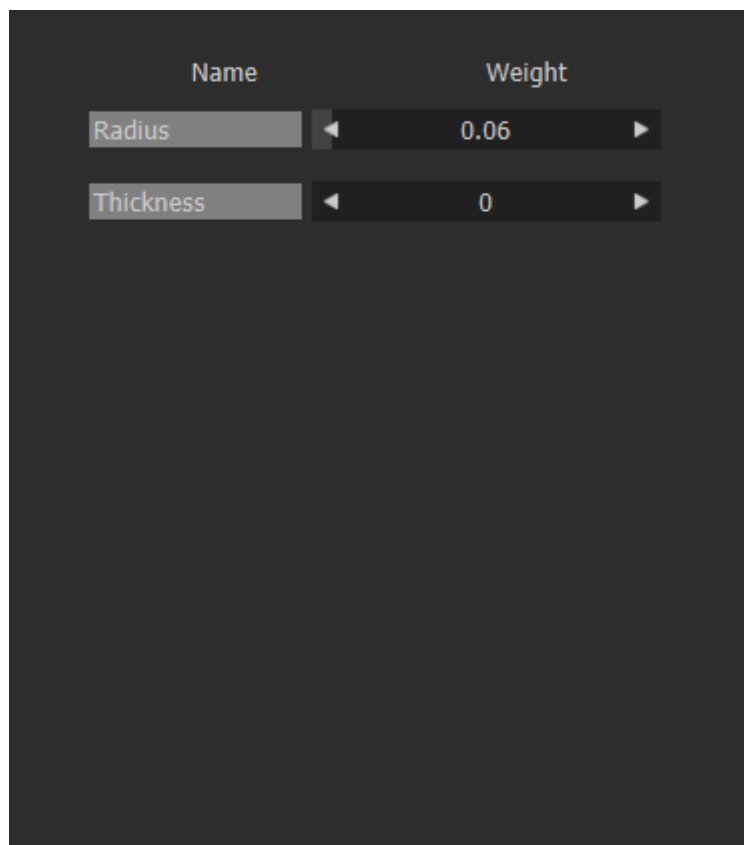
<https://www.youtube.com/embed/Y0yUQImvHwU>

## Create Hose

Clicking this tool will create two points in the 3D area, a start point and an end point. Adjust their location to the desired location. For more about this tool check this [tutorial](#).

## Create Spring

Creates a 3D spring model with the length specified by the start and end points selected by the user. A 3D Geom for the spring will be added to the Scene Browser with its two endpoints. These points can be selected and transformed, thus changing the shape/length of the spring.



With the created spring selected in the

Properties panel, VR Spring properties Radius, and Thickness can be edited.

# Landscape Group

## Make Water

Make waterworks on one object or group of objects, the process is as follows:

1. From the **Effects** menu » select **Make Water**.
2. Select 3D object(s) to become water, then click



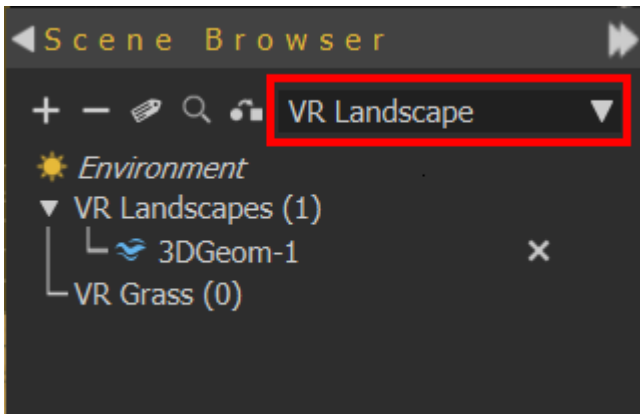
In the **Scene Browser** notice that the shape of the icon for the 3D object(s) has changed to a water shape.

The water settings can be adjusted from the **VR Water** tab in the **Properties** dialog. Water settings are:

- **Water Color:** the user can select a color to use for the water.
- **Water Depth** and **Water Speed:** these two parameters can be used to make a more realistic water surface.



To remove the water effect, from **Scene Browser** top comb box select VR Landscape. An 'X' mark will appear next to the water geometry, click it to remove the water effect.



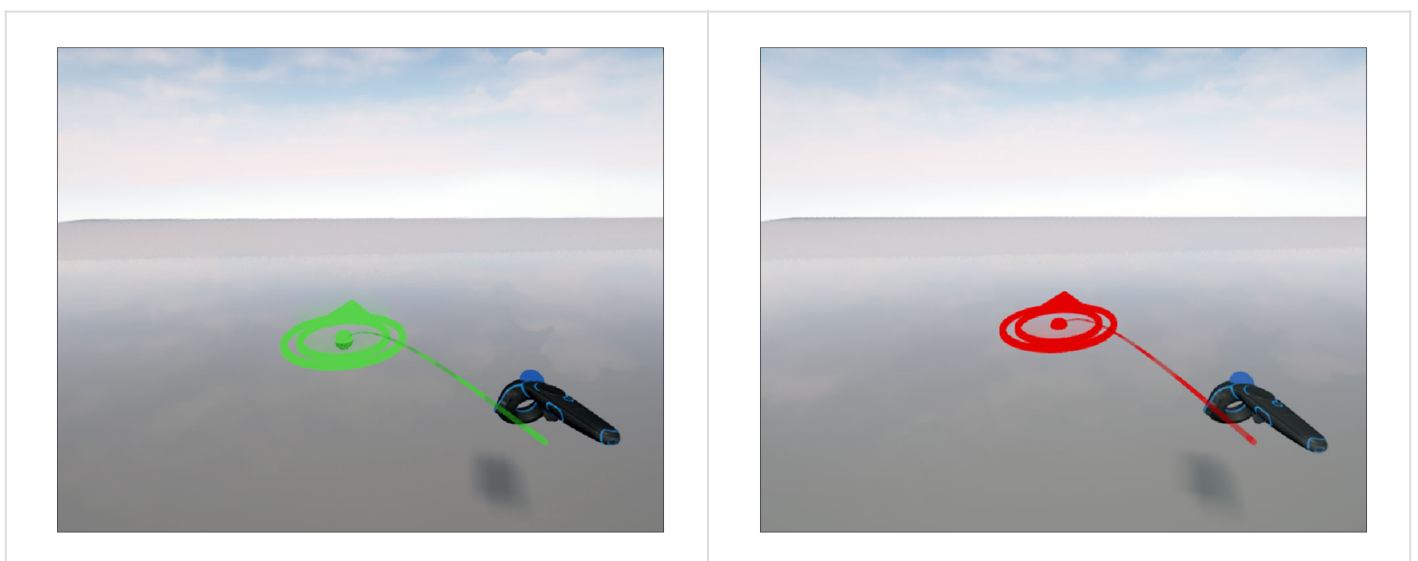
## Make Ground

Ground objects are objects the user can teleport to in VR. By default, the user does not need to set ground objects. Any object with good orientation (has a normal close to the up vector) is considered ground.

If the user wants to have more control and wants to prevent others from moving all around the scene, the user can use **Make Ground** to define the object(s) the user can teleport to. When **Make Ground** tool is used, **default ground is turned off**, and only objects defined as ground by the user are considered ground

Press and hold to activate Teleportation mode. Then Release to teleport to a valid destination.

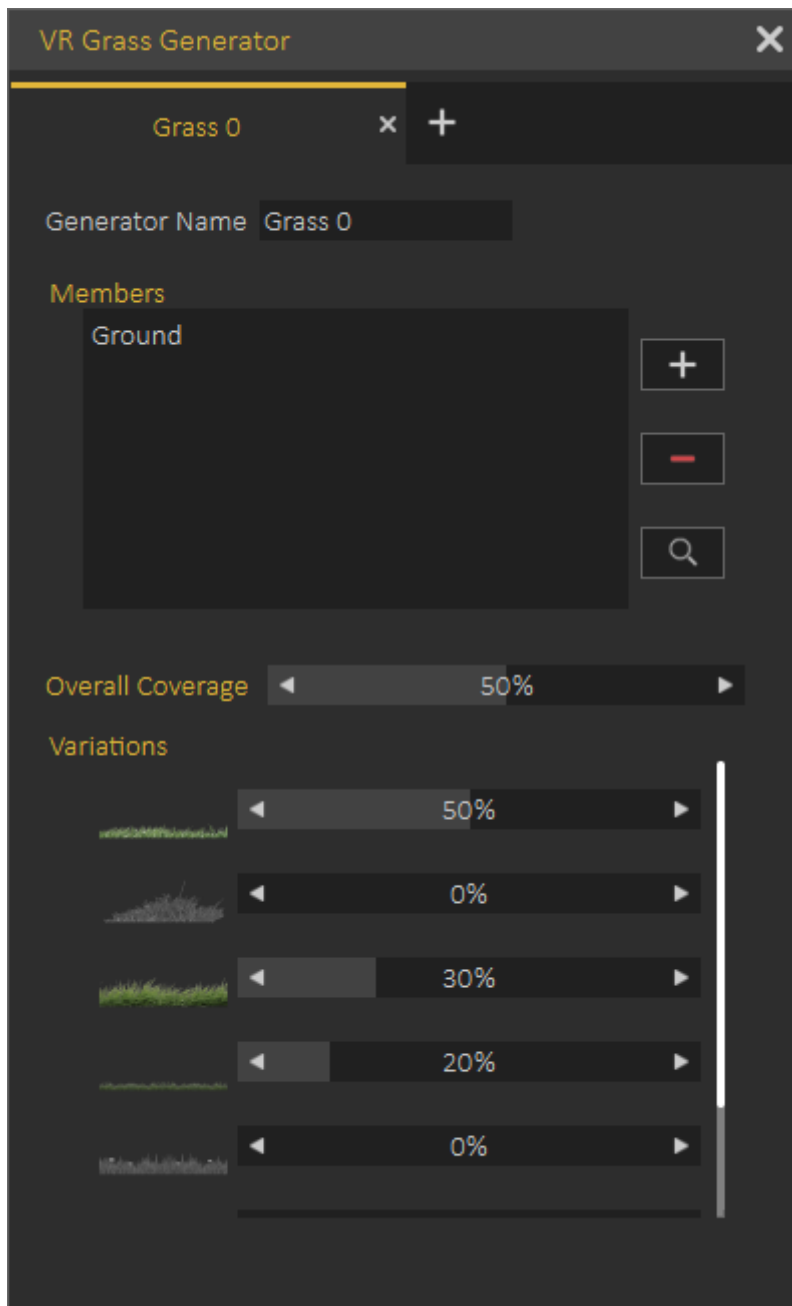
- A **red teleportation** pointer indicates possible teleportation on an object.
- A **green teleportation** pointer indicates forbidden teleportation on an object.





# Grass

Enable users to add realistic grass effects to VR scenes. Selecting this VR effect will open the VR Grass Generator dialog.



VR Grass generation dialog allows the user to control:

- Generator Name
- Geometry the grass should be added to; select the geometry then click (+)
- Overall Coverage with grass from the selected object
- The percentage of the different kinds of grass to be generated

The following video shows a sample of the Grass effect in action

[https://www.youtube.com/embed/2thOApSS\\_J8](https://www.youtube.com/embed/2thOApSS_J8)

The following tutorial shows how to use grass in SimLab Composer

<https://www.youtube.com/embed/u6oj9b2oKk0>

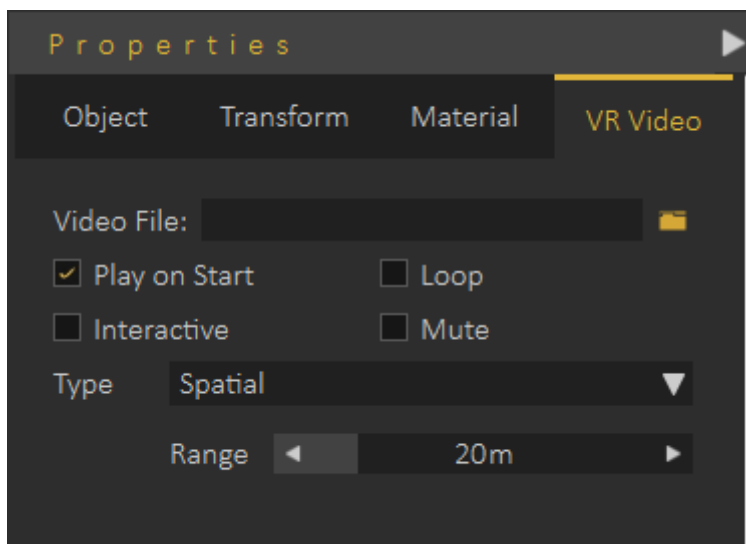
# Media Group

## Make Video

With the Make Video effect, the user can convert any 3D object to a video player. The video should be an MP4 file.

The user can use a URL link in which case the video will be streamed during the VR experience or a local link for a file on the user's machine. Local videos are automatically added to the VR experience package, so the videos can still play when VR experiences are distributed

The following dialog shows the VR Video properties

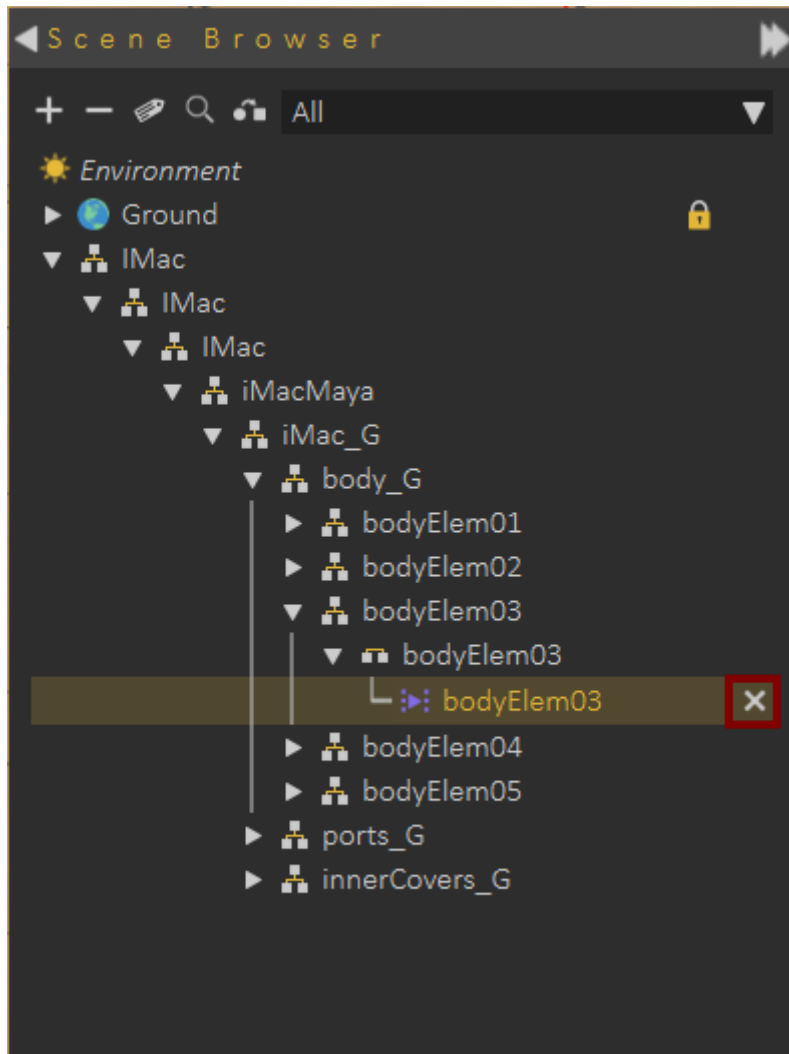


To learn how to use Video effects in VR, check the following tutorial

<https://www.youtube.com/embed/QHKHIUIto5M>

## Remove Video

To remove a video click the "X" mark in the Scene Browser next to the 3D geometry including the video.



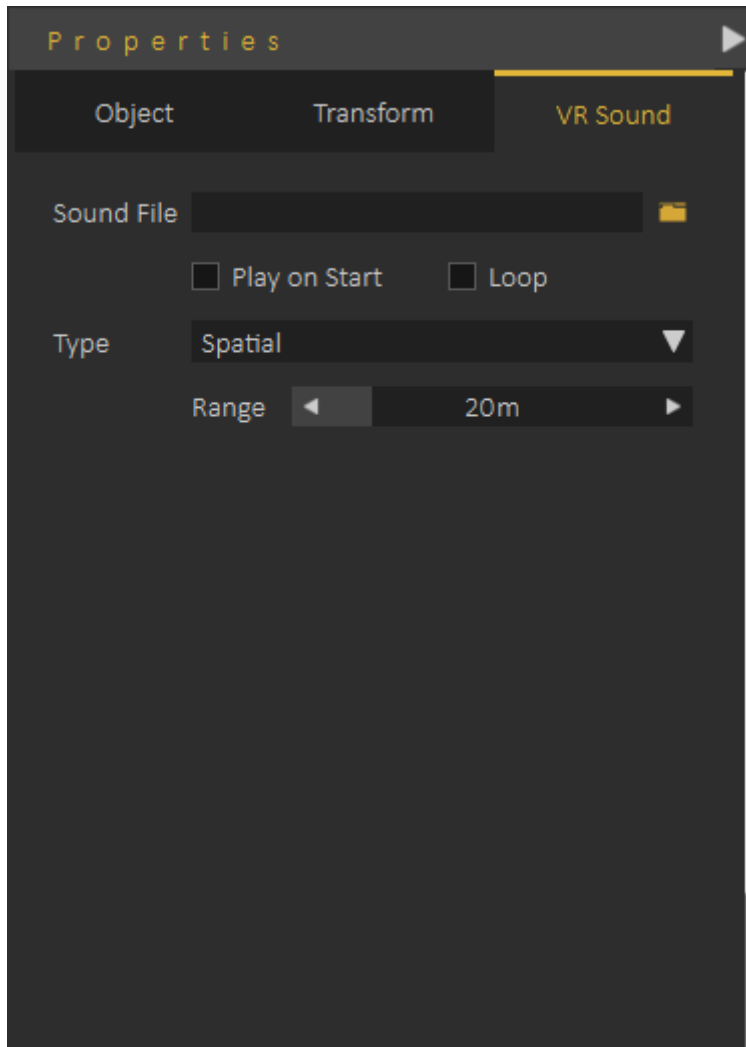
Video Action response in VR Training Builder can be used to control the Video play in VR. It can be used to pause, play, toggle, or seek in VR, as a response to an event. For more info about Video Actions in VR Training Builder check this [tutorial](#).

## Create Sound

This function adds the 3D Sound object to the scene and the **Scene Browser**. Selecting the 3D Sound from the tree will display its properties in the **Properties Panel, VR Sound** tab. The 3D sound object occupies a location in the 3D scene.

The user can determine if the sound should be played at the start of the scene, or not. To be played once or in a loop.

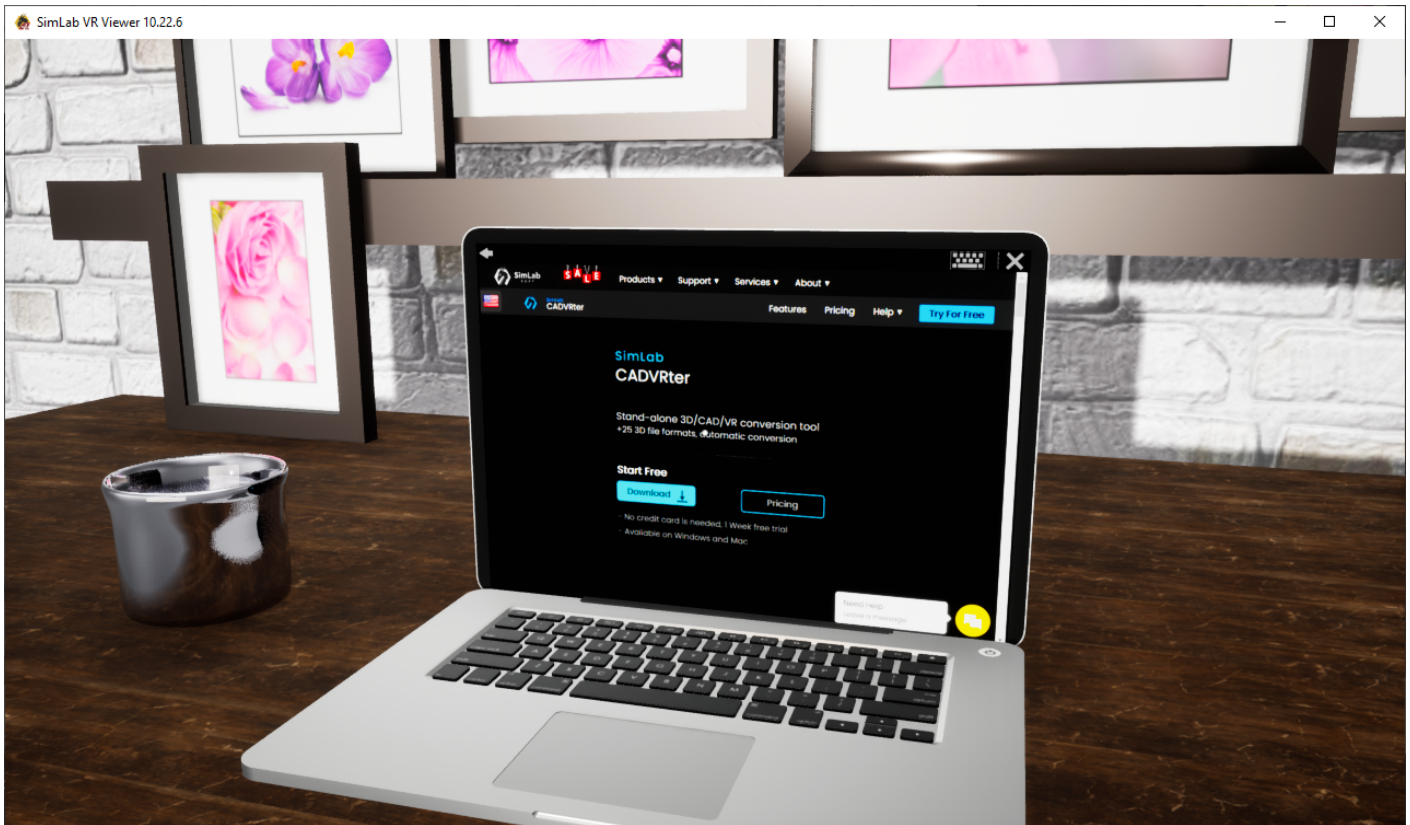
The type of 3D Sound can either be **Spatial**, which means the sound volume is automatically affected by the location of the 3D sound in the scene, or **Constant**. Constant sounds when played have the same volume in all areas of the scene.



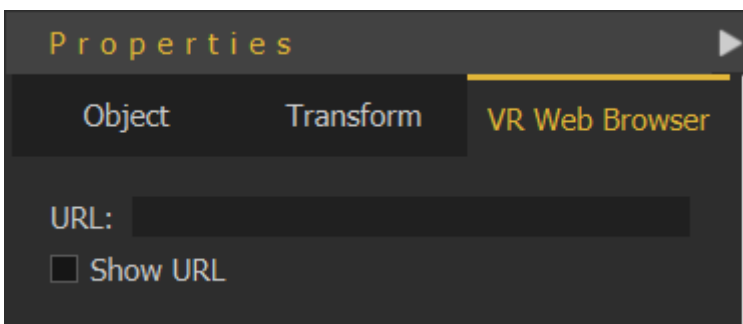
For more information about VR Sound, check this [tutorial](#)

## Create Web Browser

Adds a flat-screen **VR Web Browser** element to the Scene Browser, and the 3D area. In the Properties Dialog under the **VR Web Browser** tab, the user can input the URL for the browser to display.



The user can change the width and height of the Web browser plane using the white points that appear on it when selected. The web browser can be placed on a PC screen or a full wall in the VR experience.

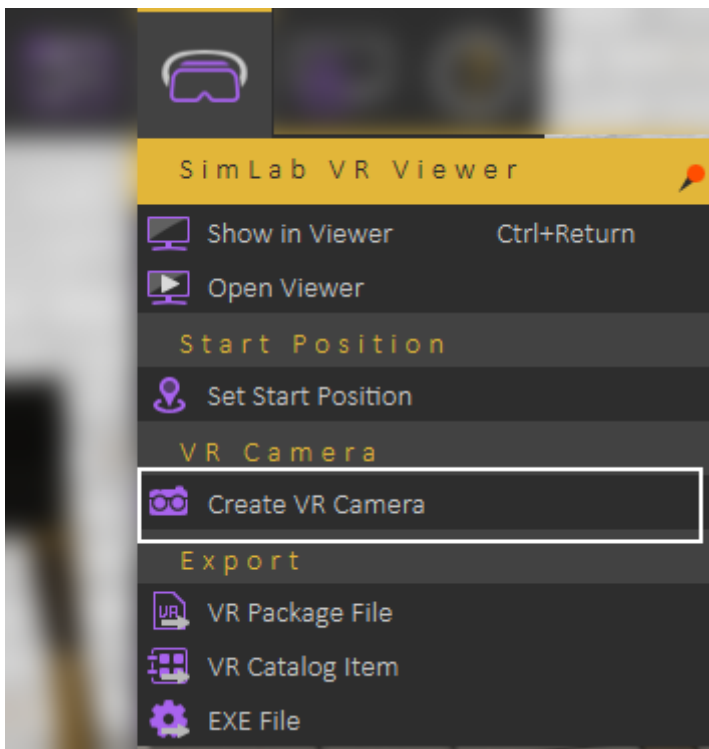


## Create Surveillance Plane

A **Surveillance Plane** allows the user to view far or not easy to view parts of the scene using **VR Camera**. VR Surveillance plane is linked to the camera so it shows what the camera is seeing. The following tutorial shows how to use **VR Surveillance**

[https://www.youtube.com/embed/uXWCeDG\\_QNs](https://www.youtube.com/embed/uXWCeDG_QNs)

Creating **VR Camera** is available under the **VR Viewer menu**



## VR Slides Generator

PowerPoint presentations or PDF files generated in years, can be utilized easily in VR experience. In few clicks you will be able to get the presentation and optionally a small podium version of it for an amazing VR experience.

VR Slides Generator tool will convert your existing training builder blocks to make it easy to utilize in VR. It is also able to show/hide a 3D object



that works well with your presentation. To learn

more about this tool check this tutorial.

# UI Panel Group

## Create Variable Writer

This tool enables the user to track the value of a **VR Variable** in the VR experience.

Click [Here](#) to learn more about creating VR Variables.

The value of the variable will be updated dynamically, so whenever the variable value changes the variable writer will be updated to show the new value of the variable. The user can control the size, and place of the variable writer, so it can be aligned on a wall in the scene or on a monitor.

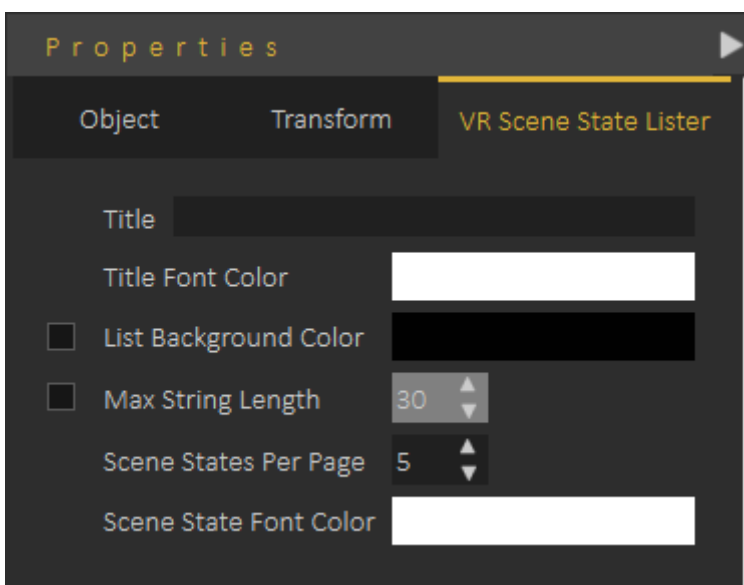
The user selects which variable to view, the color of the text, and the prefix text.

Having multiple variable writers belonging to the same group makes them have the same font size.

## Create Scene States Lister

Scene State Lister automates the process of showing the **Scene States** in the scenes and allows the user to switch between them during the VR experience.

Adding a Scene State Lister will add it to the 3D area, and the Scene Browser. The user can control **Scene State Lister** parameters from the VR Scene State Lister tab in the **Properties Panel**, as shown in the following image.



The following tutorial shows how to use **Scene State Lister** in a VR experience

<https://www.youtube.com/embed/u--kbChJMDY>

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