

# Cluster Wheel Vehicle Visualize



## A. Enable Visualize In SOLIDWORKS.

Step 1. Open your CWV ASSEMBLY file in SOLIDWORKS.

Step 2. Click **Isometric**  on the Standard Views toolbar. (Ctrl-7)

Step 3. **Turn on decals.** Use View Menu > Hide/Show > Decals.

Step 4. If necessary, enable **SOLIDWORKS Visualize**. To enable, click the **flyout of Options**  on the Standard toolbar and click **Add-Ins**.

Step 5. In the dialog box find SOLIDWORKS Visualize and place a check in the check box under **Active Add-Ins** and **Start-Up**, **Fig. 1**. Click OK .

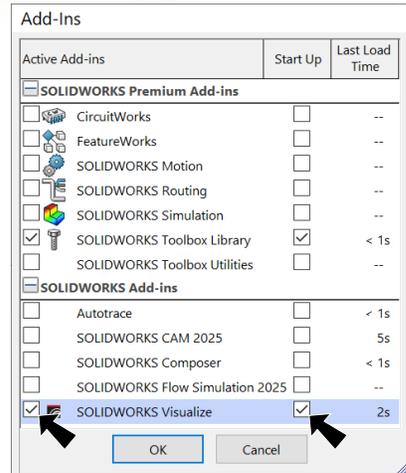


Fig. 1

Step 6. Click **SOLIDWORKS Visualize**  on the Command Manager toolbar.

Step 7. Click **Export Advanced**  on the SOLIDWORKS Visualize toolbar.

## B. Switch to Visualize and Save As.

Step 1. In Visualize click File Menu > Save As.

Step 2. Key-in CWV for filename and navigate to your CWV folder.  
Documents\Tech Ed 24-25\CWV.  
Click Save.

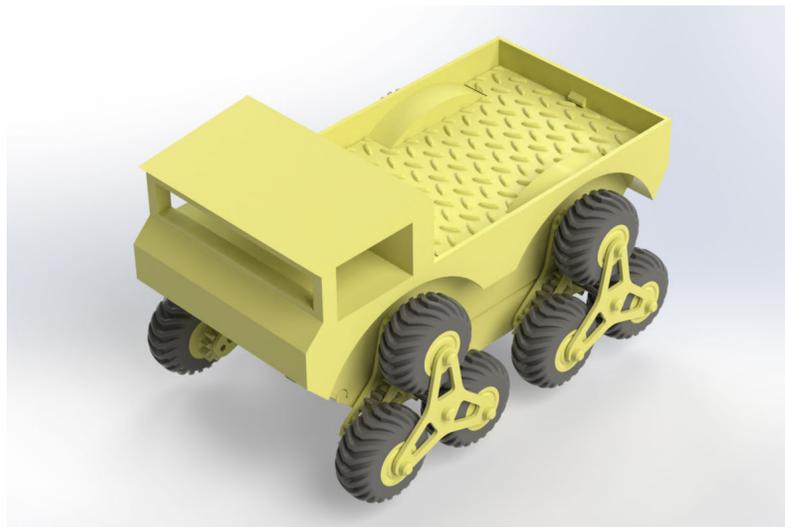


Fig. 2

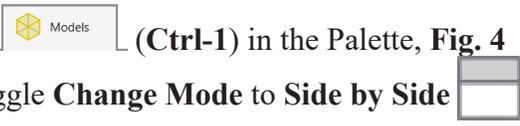
### C. Transform to Floor.

Step 1. Expand **View Presets** in Main toolbar and click **Right**, Fig. 3.



Fig. 3

Step 2. Click **Models tab** (Ctrl-1) in the Palette, Fig. 4 if necessary, toggle **Change Mode** to **Side by Side**



click the **CWV Assembly model** in the Model tree

click the **Transform tab** under Transform  
**Position XYZ**  
**Y .0110**  
 and press **ENTER**

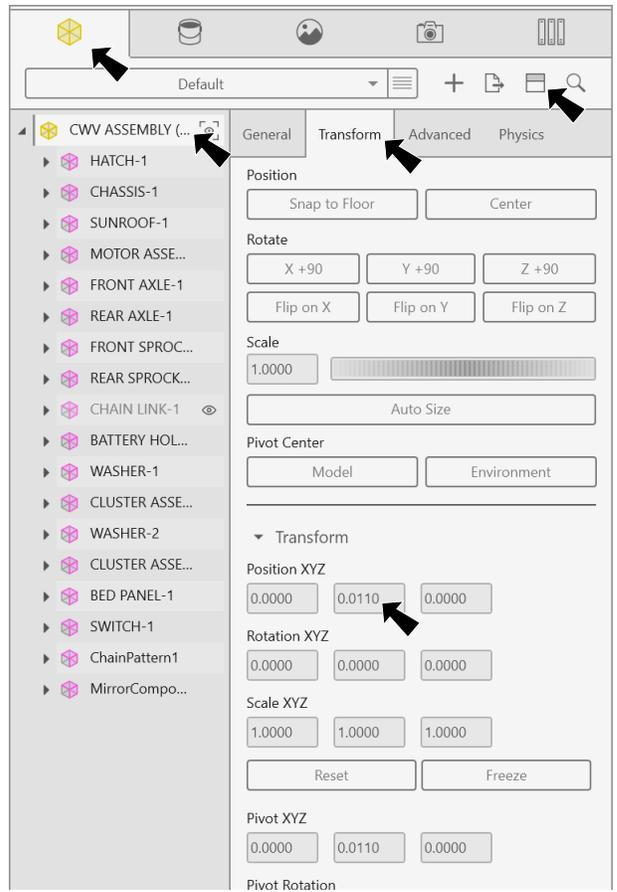


Fig. 4

Step 3. Save. **Ctrl-S.**

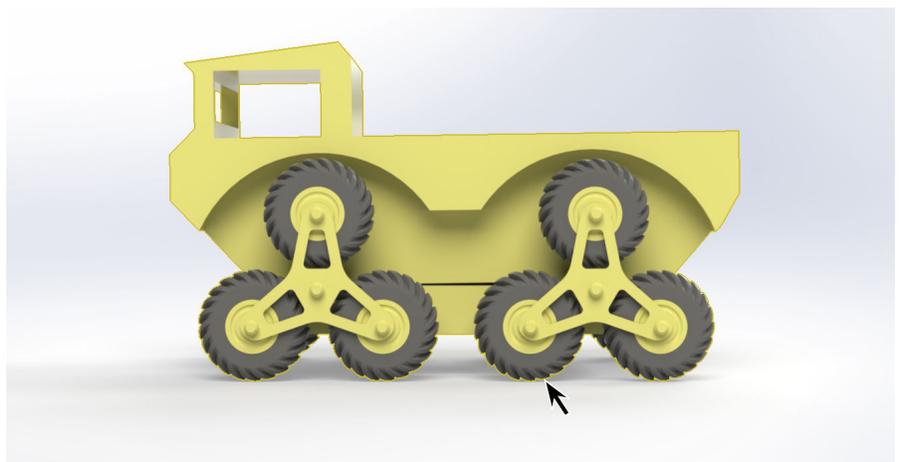


Fig. 5

## D. Show Only Batteries.

Step 1. Expand **View Presets**  in Main toolbar and click **Isometric-2** , Fig. 6.



Fig. 6

Step 2. Still on **Models tab**  (Ctrl-1) in the Palette, Fig. 7. click Edit Menu > Find (Ctrl-F) at top of Palette in search field **key in BATTERY**

in the Model tree **Ctrl click both BATTERY AA groups**  **Right click and click View > Hide/Show > Show Only (Shift-H)**

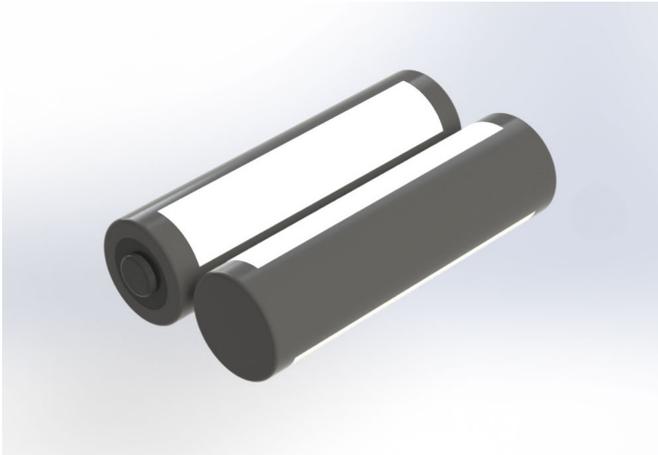


Fig. 8

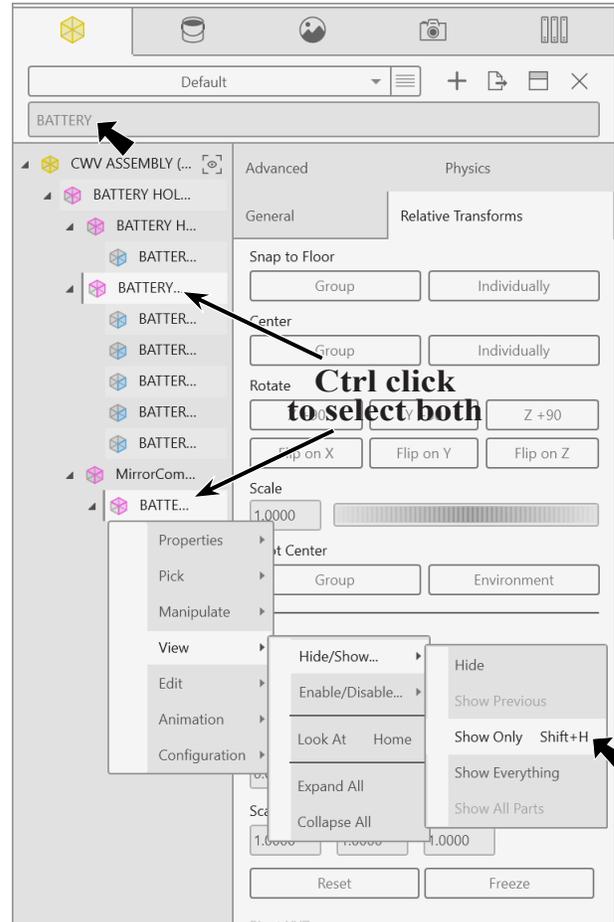


Fig. 7

## E. Repair Decals Mask Embedded.

Step 1. Click **Appearances** tab  (Ctrl-2) in the Palette.  
at bottom of Appearances tree  
under Decals

select the first **Powerowl1** decal, Fig. 9

under the **General** tab   
Decal Mask Type **Embedded**  
Repeat and set all decals to **Embedded**.

Step 2. Click Project Menu > Models > Show Everything (Ctrl-Shift-U).

Step 3. Save. Ctrl-S.

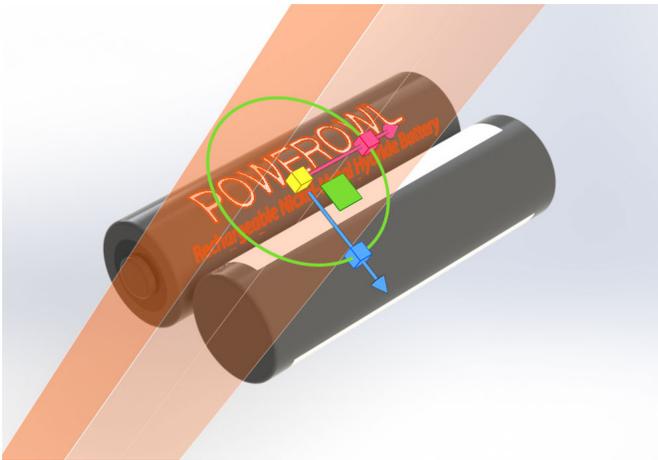


Fig. 10



Fig. 11

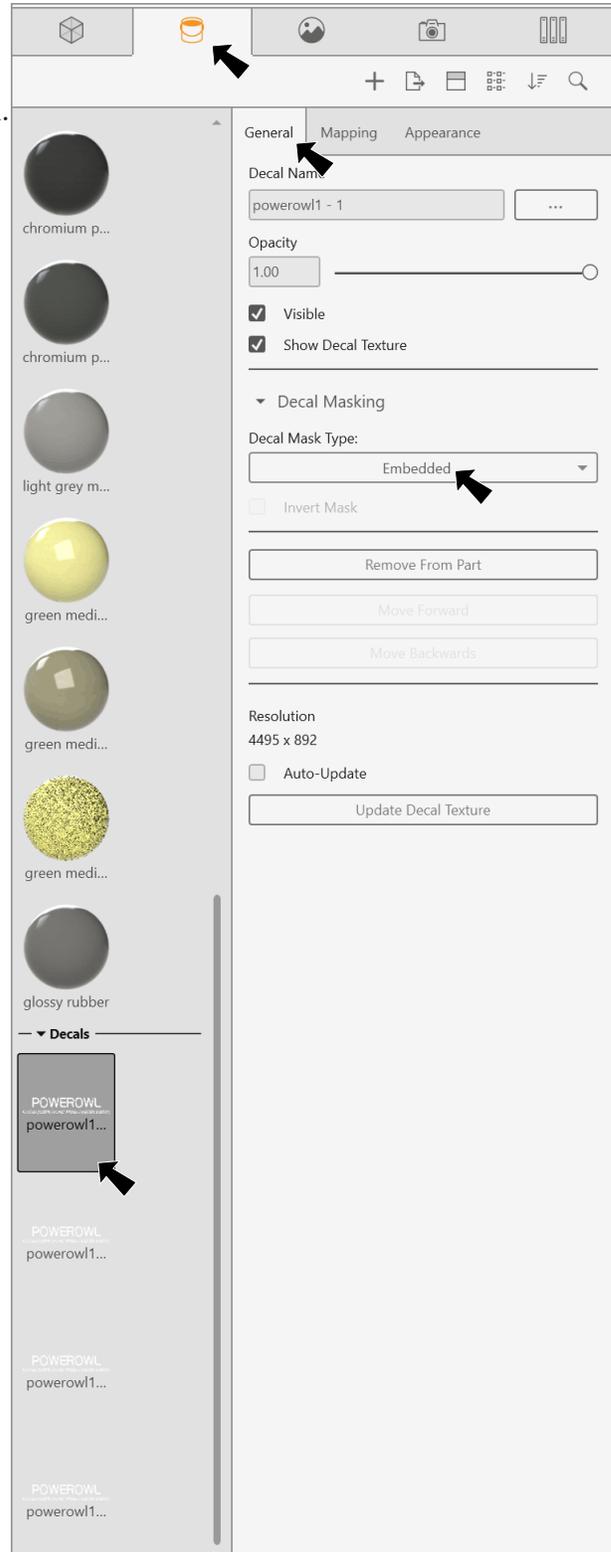
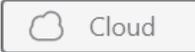


Fig. 9

## F. Cloud Appearance: Matte Rubber.

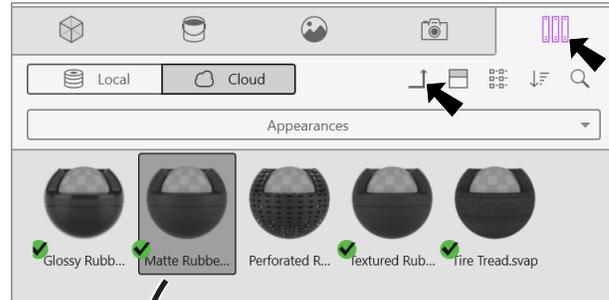
Step 1. Click **File Libraries** tab  (Ctrl-0) in the Palette, **Fig. 12.**

click **Cloud**  to view Cloud libraries

change the libraries list to **Appearances**

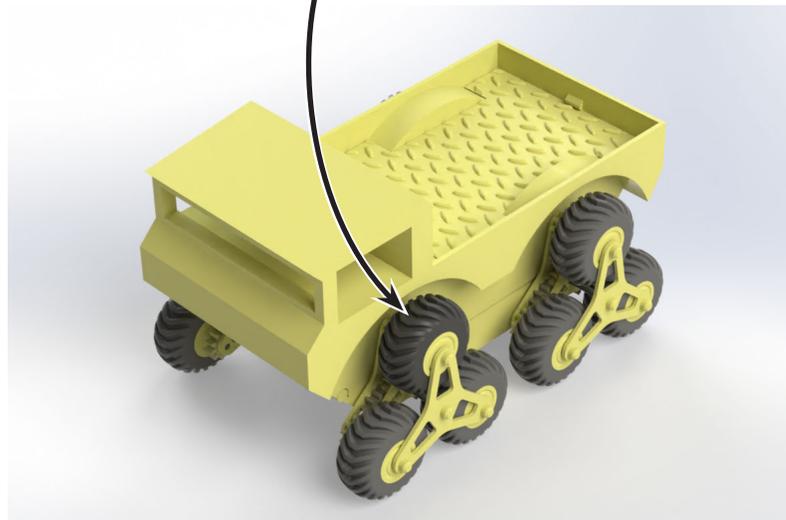
**double click Rubber** folder  and

click **Matte Rubber** to download   
to your local library.



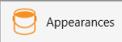
**Fig. 12**

Step 2. Drag the **Matter Rubber** appearance onto a Tire, **Fig. 13.**



**Fig. 13**

## G. Replace SW Glossy Rubber.

Step 1. Click the Tire to switch to the **Appearances** tab  (Ctrl-2).

Step 2. Replace SW glossy rubber appearance with new Matte. To replace, click the new **Matte Rubber** in the Appearances and use **Ctrl-C** to copy, **Fig. 14**.

Step 3. **Right click** the SW glossy rubber and click **Edit > Assign Appearance: Matte Rubber**, **Fig. 15**.

Step 4. Save. **Ctrl-S**.

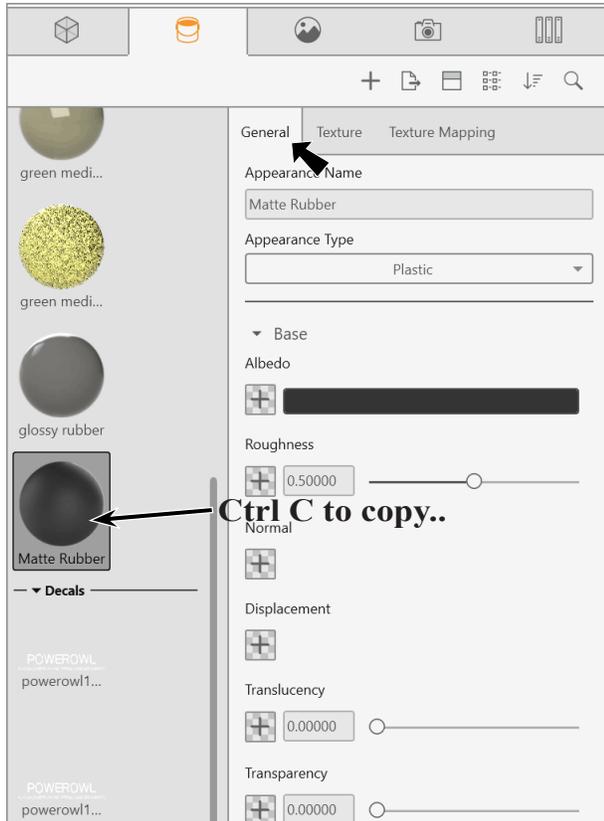


Fig. 14

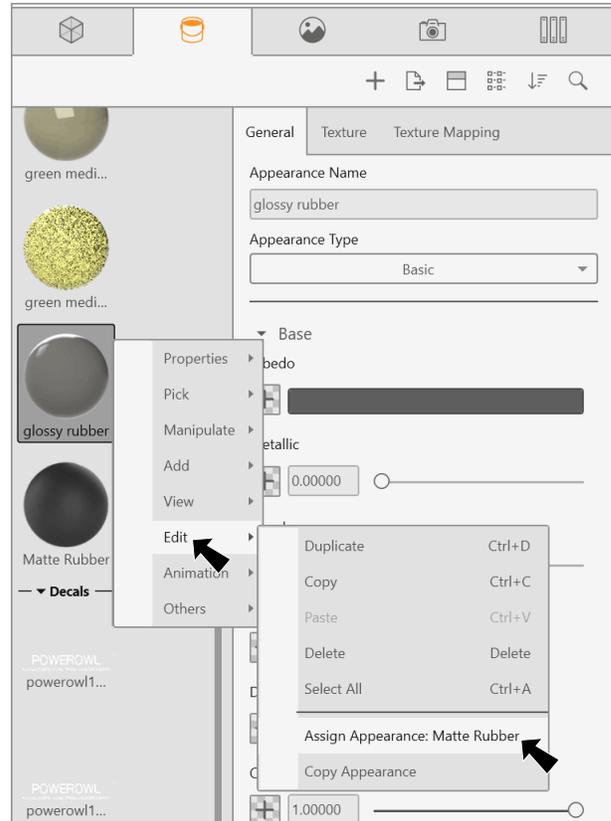


Fig. 15

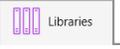


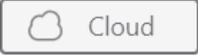
Fig. 16

## H. Cloud Environment.

Step 1. **Right click** in Appearances and click **Delete All Unused Appearance and Textures**, **Fig. 17**.

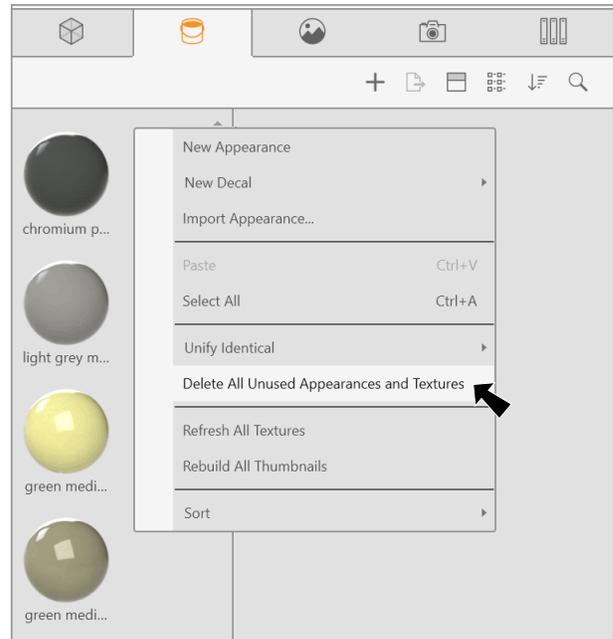
Step 2. Use **Up Arrow key**  on keyboard **5 times** to rotate view.

Step 3. Click **File Libraries tab**  (Ctrl-0) in the Palette, **Fig. 18**.

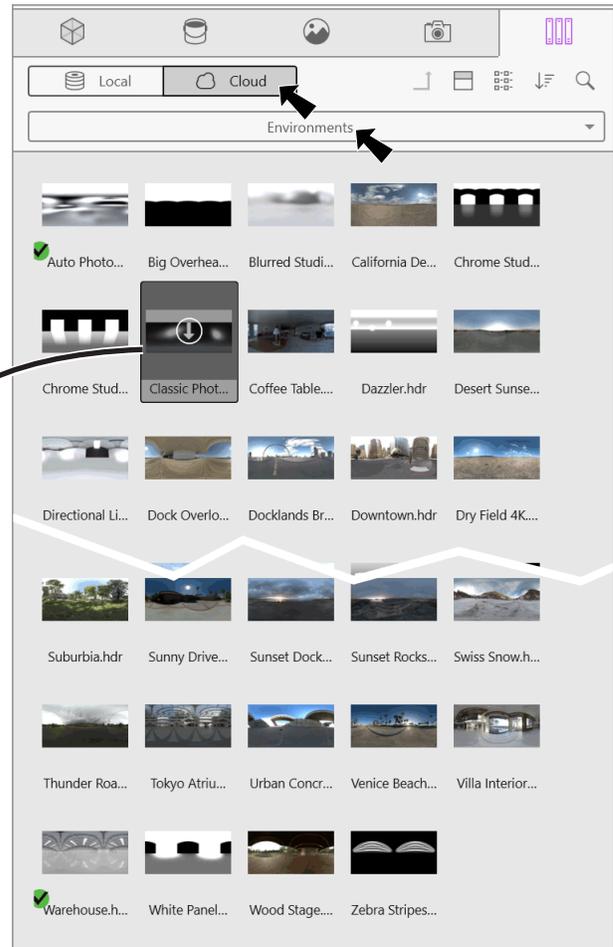
click **Cloud**  to view Cloud libraries  
 change libraries list to **Environments**  
 click **Classic Photo Studio.hdr** to download  to your local library.

Step 4. Drag **Classic Photo Studio.hdr** thumbnail into the viewport, **Fig. 19**.

Step 5. Save. **Ctrl-S**.



**Fig. 17**



**Fig. 18**



**Fig. 19**

## I. Scene Backplate Off.

Step 1. Click **Scenes** tab  (Ctrl-3) in the Palette, **Fig. 20**  
under **Backplates**  
click **3 Point Faded Backplate** to select  
under the **General** tab   
uncheck **Visible**.



Fig. 21

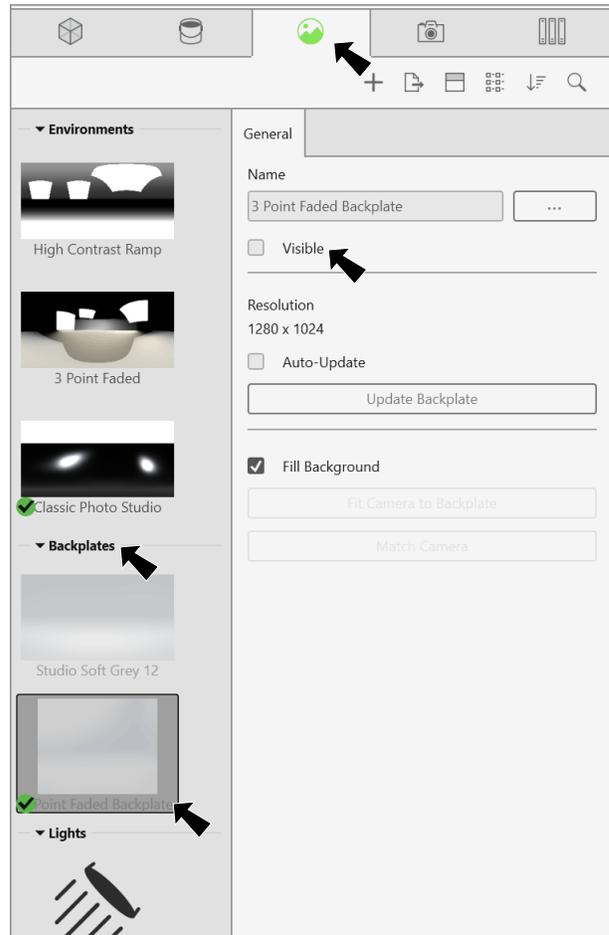


Fig. 20

## J. Scene Background White.

Step 1. Still on **Scenes** tab  (Ctrl-3) under list of Environments, **Fig. 22** click **Classic Photo Studio** to select under the **General** tab 

Background Type **Color**  
click the **Background Color** swatch

Step 2. In the Color Picker, **Fig. 23** grab the **color field selector**  and drag straight up to white 255, 255, 255 close Picker .

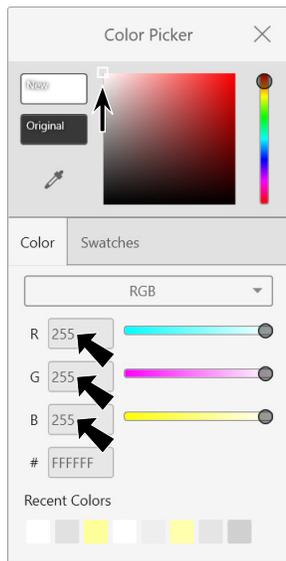


Fig. 23

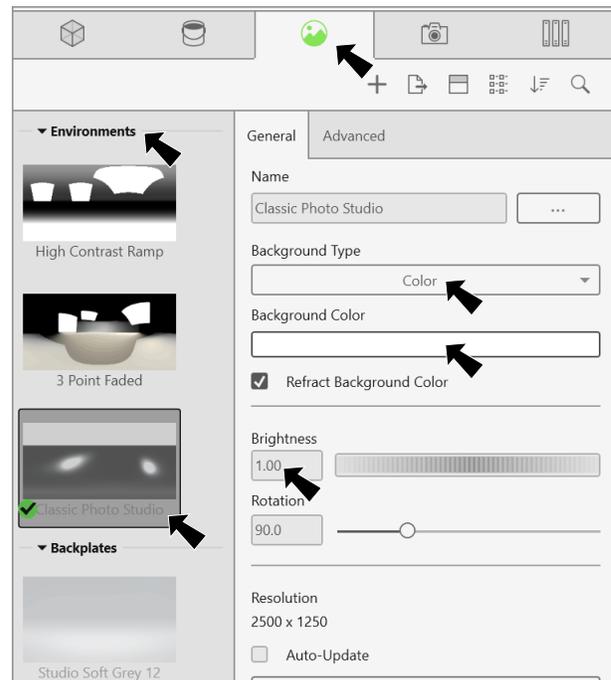


Fig. 22

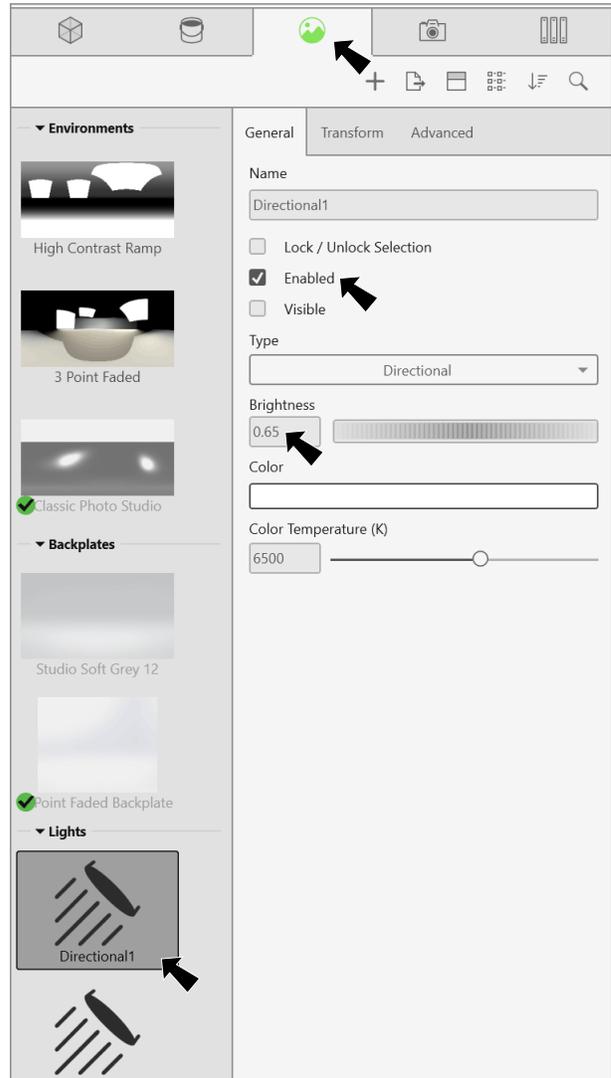


Fig. 24

Step 3. Save. **Ctrl-S.**

### **K. Scene Light and Shadow.**

Step 1. Still on **Scenes** tab  (Ctrl-3)  
under list of Lights, **Fig. 25**  
click **Directional1** to select  
under the **General** tab   
check **Enabled**



**Fig. 25**

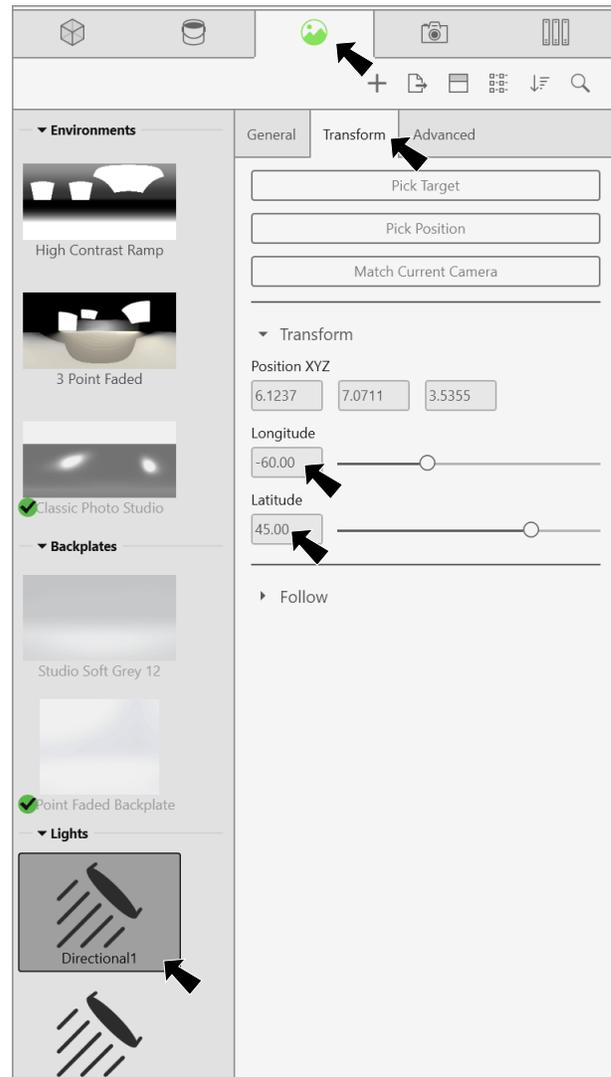


**Fig. 26**

## Brightness .65

Step 2. Click **Transform** tab , **Fig. 27**  
under Transform set  
**Position XYZ**  
**Longitude -60**  
**Latitude 45**

Step 3. Save. **Ctrl-S**.



**Fig. 27**



**Fig. 28**

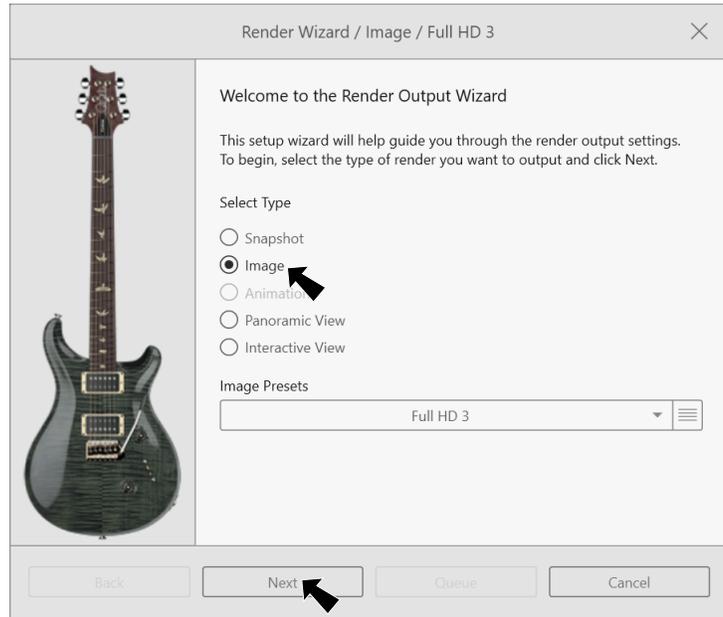
## L. Render.

Step 1. Click **Render Wizard**  in Main toolbar, **Fig. 29**.



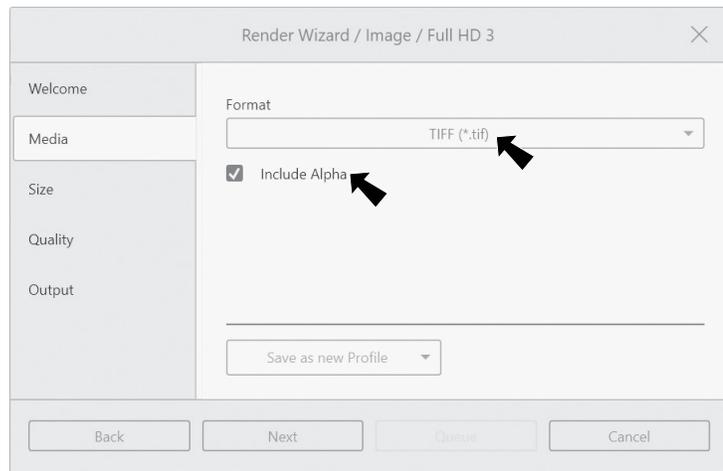
**Fig. 29**

Step 2. In Wizard Welcome page, **Fig. 30** under Select Type select **Image** click **Next**.



**Fig. 30**

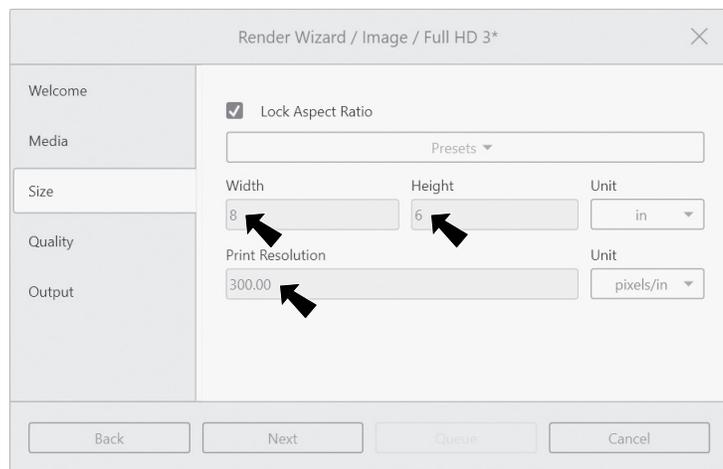
Step 3. Media page, **Fig. 31**  
Format **TIFF**  
check **Include Alpha**  
click **Next**.



**Fig. 31**

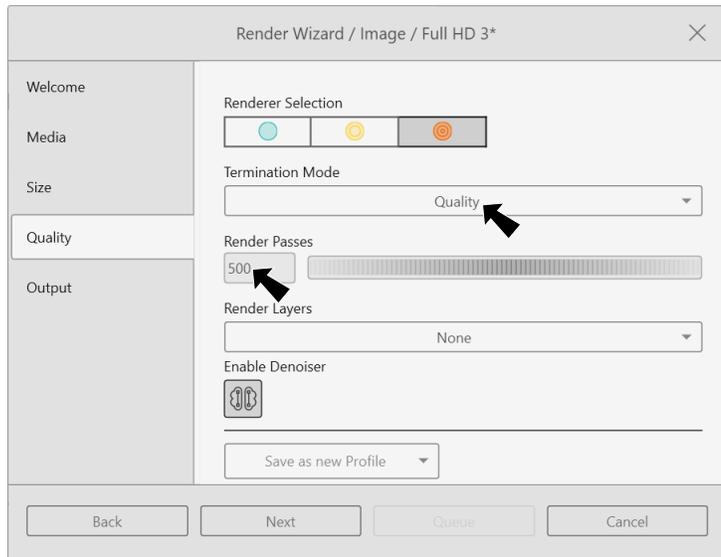
Step 4. Size page, **Fig. 32**  
set **Width and Height**  
set **Resolution**  
click **Next**.

**Tip:** Higher values yields better quality image but takes longer.



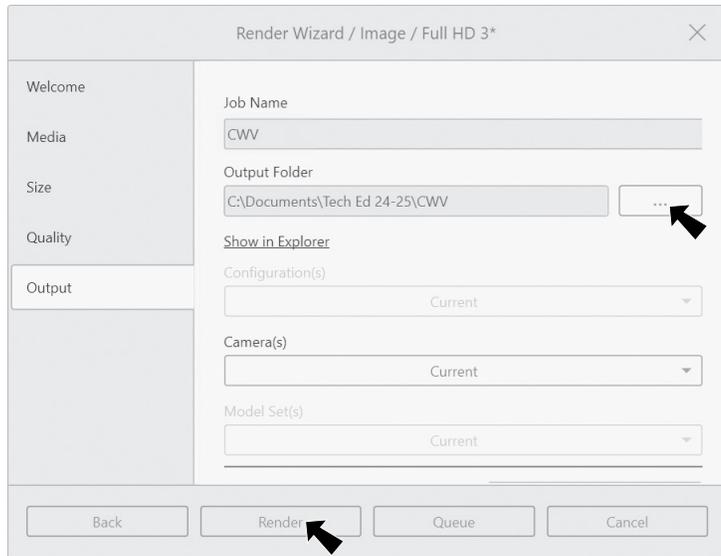
**Fig. 32**

Step 5. **Quality, Fig. 33**  
 Termination Mode **Quality**  
 set **Render Passes**  
 click **Next**.



**Fig. 33**

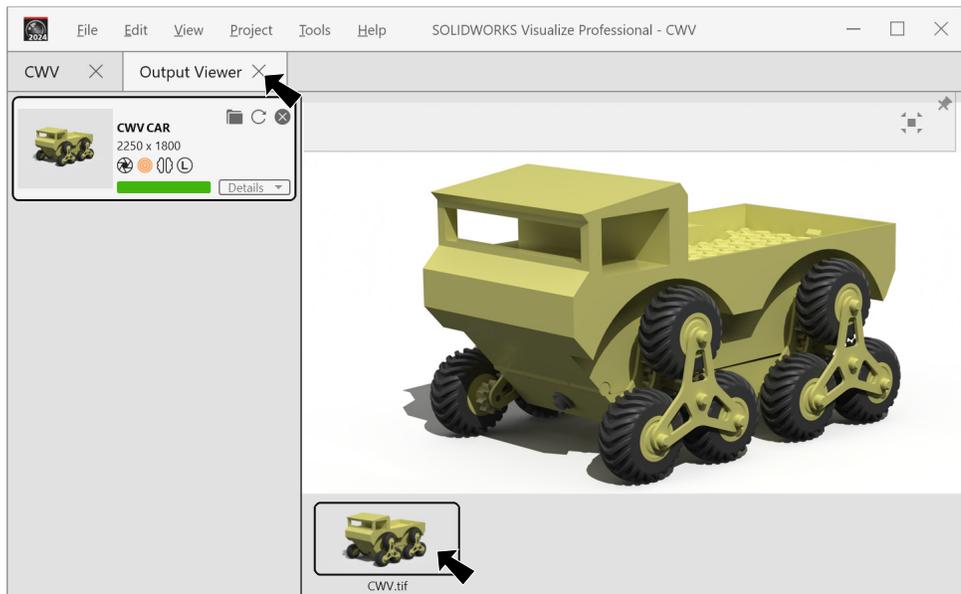
Step 6. **Output, Fig. 34**  
 set **Output Folder**  
 click **Render**.



**Fig. 34**

Step 7. In the Output Viewer, **Fig. 35**  
 After rendering  
 click **thumbnail** to open  
 image in your image software.  
 Close Output Viewer .

**Tip: Right click**  
**Render Wizard**   
 to directly start render-  
 ing.



**Fig. 35**