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HyperWorks

Altair HyperView 2019 Tutorials

HV-3030: Editing Legends

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HV-3030: Editing Legends

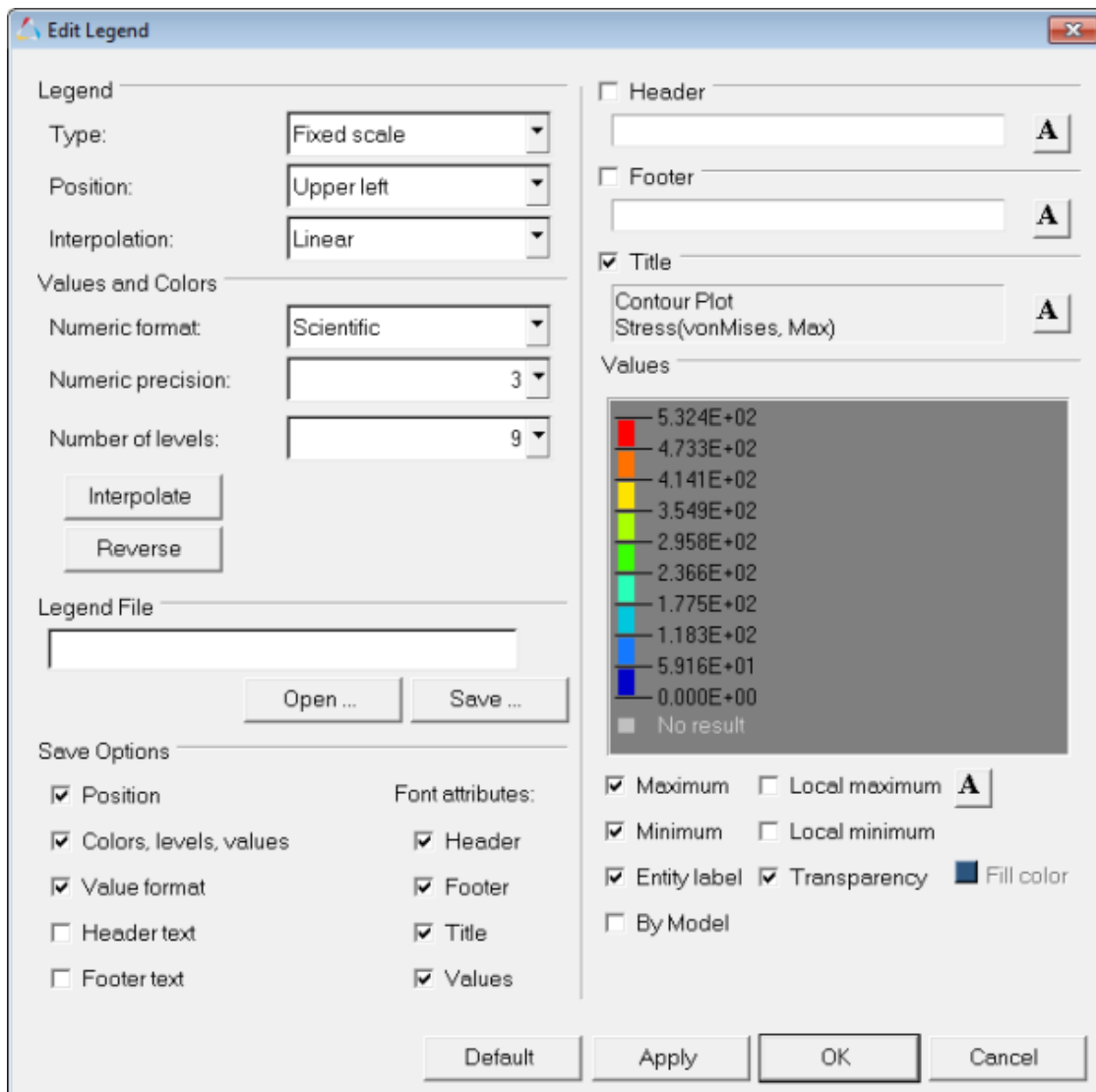
In this tutorial, you will:

- Edit the legend format
- Edit legend colors
- Edit the legend fill color
- Save legend settings for future use

Tools

To access the **Edit Legend** dialog:

- Click the **Edit Legend** button in the **Contour**, **Vector**, or **Tensor** panel.







The **Edit Legend** dialog allows you to change the color band, format, and descriptions for legends.

Exercise: Edit the Legend and save the settings

This exercise uses the `d3plot` file as both the model and the results file.

Step 1: Edit the legend format.

1. Load the `d3plot` file, located in the `animation\truck` folder.
2. Create a **vonMises** stress contour using the **Contour** panel .
3. Click **Apply**.
4. Animate the model .
Observe the changes in the legend.
5. Click the **Animation Controls** panel button  on the **Animation** toolbar.
6. Slow down the speed of the animation by adjusting the **Max Frame Rate**.
7. Pause the animation .
8. Return to the **Contour** panel.
9. Click **Edit Legend**.
10. Change the legend **Type** to **Dynamic scale**.
The legend values automatically change in the preview window.
11. Change the legend **Position** to **Lower left** and click **Apply**.
The legend moves to the new position.
12. Close the **Edit Legend** dialog.
13. Animate the model.
Observe the legend updates for each time step.
14. Stop the animation.
15. Open the **Edit Legend** dialog.

16. Experiment with the following:

- Change the numeric format.

The format automatically changes in the legend box.

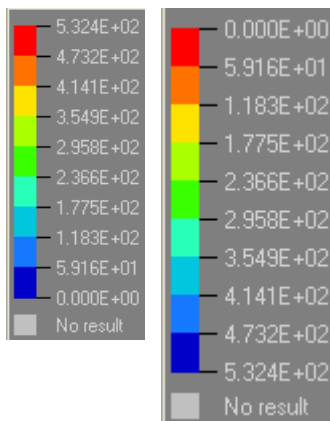
- Change the numeric precision.

- Change the number of levels.

The number of color bands in the legend box automatically changes.

- Click the **Reverse** button.

The values are reversed in the legend box. The lowest value is now red; the highest is now blue.



Original
levels

Reversed levels

17. Change the legend **Type** to **Fixed scale**.


18. Click on a number in the legend box and enter a new value.

19. Press ENTER.

The edited value is displayed in bold font. The remaining values linearly interpolate.


20. Add a header and footer to the legend.

- Activate the **Header** check box and enter text in the text box.

- Click the font button  and change the font type and size.

- Click **OK**.

- Activate the **Footer** check box and enter text in the text box.

- Click the font button  and change the font type and size.

- Click **OK**.

- Click **Apply** to add the legend header and footer to the legend on the screen.

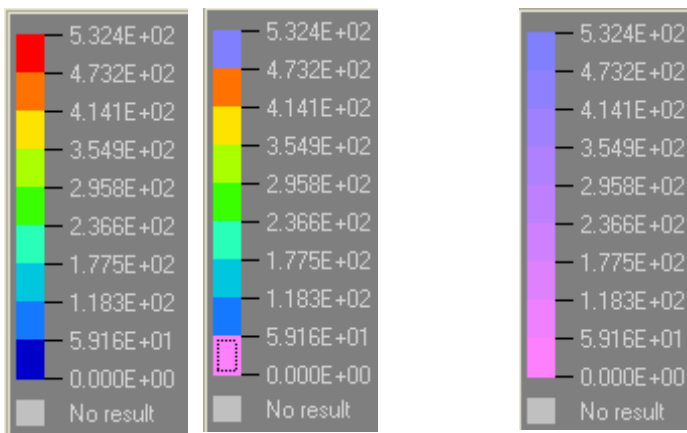
Step 2: Edit legend colors.

1. Change the color of a legend band.
 - Click on a color band.
 - Select a new color.
 - Click **OK**.
 - Change another color.
2. Interpolate colors between two color bands.
 - Click **Interpolate**.
 - Click on the first changed color.
 - Click on a second changed color.

The colors between the two selected colors are interpolated.

3. Click **Apply**.

The new color scheme is applied to the model.



Original colors

Two changed colors

Interpolated colors

Step 3: Edit the legend fill color.

1. Change the background color of the legend.
 - Uncheck the **Transparency** check box.
 - Click the **Fill color** box and select a new color from the palette.

Note - The **Fill color** option is disabled if the **Transparency** option is activated.

- Click **Apply**.

The background color of the legend in the graphics area changes to the new color.

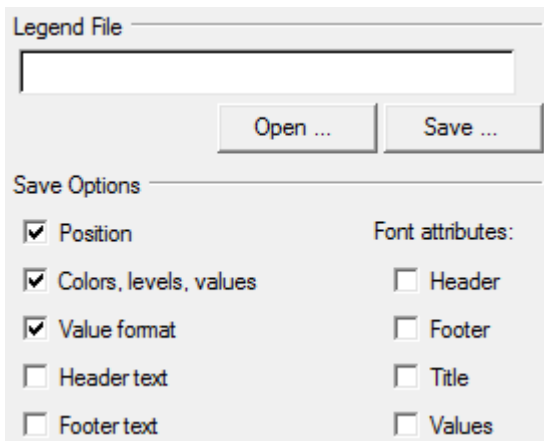
- Change the legend background to another color.

2. Change the legend fill color back to transparent.
 - Activate the **Transparency** check box.
 - Click **Apply**.

Observe how the background color of the legend is now the same color as the graphics background.

Step 4: Save legend settings for future use.

Once you have completed your legend settings, you can save them for future use. Items that can be saved are listed in the **Save options** section.



1. Activate the check boxes for the attributes you want to save.
2. Click **Save**.
3. Designate a file name and path.

Files are saved in Tcl format.
4. Click **Save**.
5. Click **Default** to return to the default settings.
6. Click **Apply**.
7. Click **Open** to open the saved file and load the previously determined legend settings.

The contour colors and legend are retrieved just as you saved them.