



Altair

HyperWorks

Altair HyperGraph 3D Tutorials

HG3D-3010: Editing Line Plots


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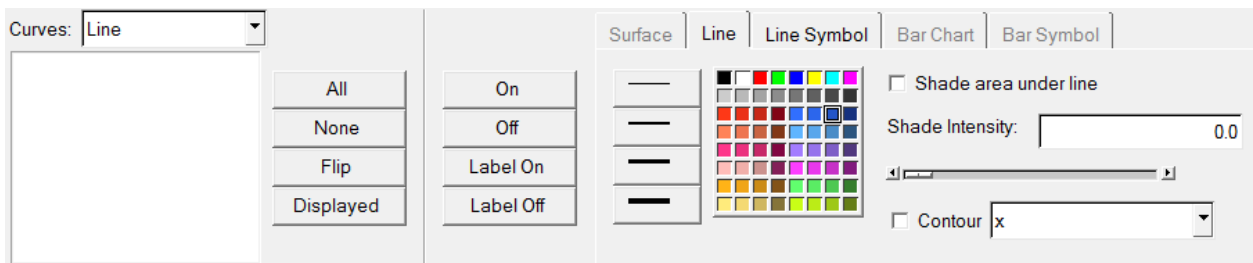
In this tutorial, you will learn how to:

- Work with the **Coordinate Info** and **Axes** panels
- Edit curve attributes
- Contour line plots

Tools


The **Curve Attributes** panel can be accessed one of the following ways:

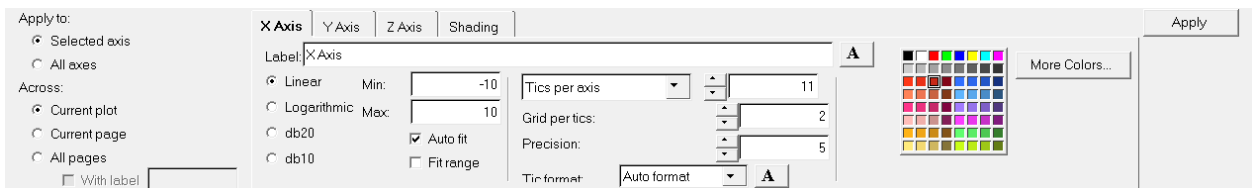
- From the toolbar, click the **Curve Attributes** icon, 
- Or
- From the menu bar, select **Curves > Curve Attributes**



Curve attributes, such as line style, color, and weight as well as symbol style and color and data attributes, are located on the **Curve Attributes** panel.


The **Axes** panel can be accessed one of the following ways:

- From the toolbar, click the **Axes** button, 
- Or
- From the menu bar, select **Annotations > Axes**.



Axis attributes such as labels, color, and scaling can also be modified using the **Axes** panel.

The **Coordinate Info** panel can be accessed one of the following ways:

- From the toolbar, click the **Coordinate Info** button, .
- Or
- From the menu bar, select **Curves > Coordinate Info**

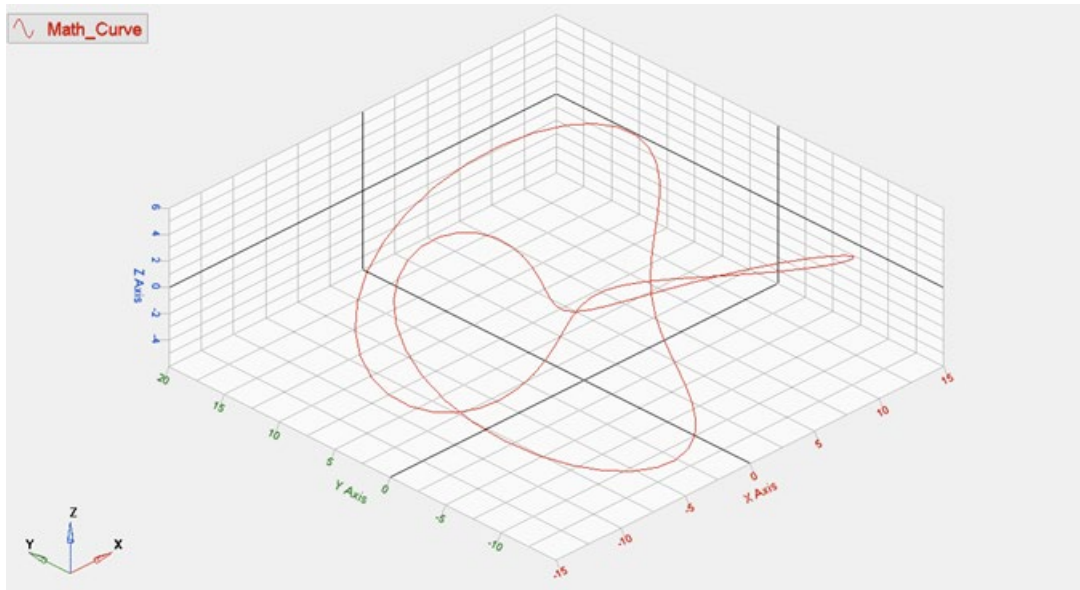
The **Coordinate Info** panel allows you to retrieve individual point data on any curve in the active window. When a point on a curve is selected, the point data is displayed on the panel and in a bubble in the graphics area of the screen.



Exercise: Editing Line Plots

Step 1: Open session file.

1. From the menu bar, select **File > Open > Session**.
2. Select the file `Curve_Attributes_line.mvw`, located in the `3dplotting` directory, and click **Open**.




Step 2: Working with the Coordinate Info panel

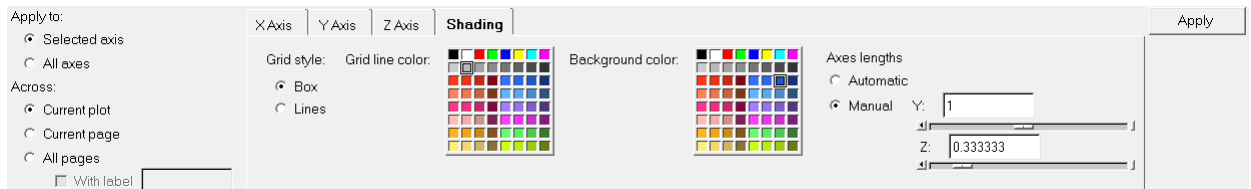
1. Click the **Coordinate Info** panel icon,

Note A bubble with the coordinates for the first point of the curve appears in the grid area.

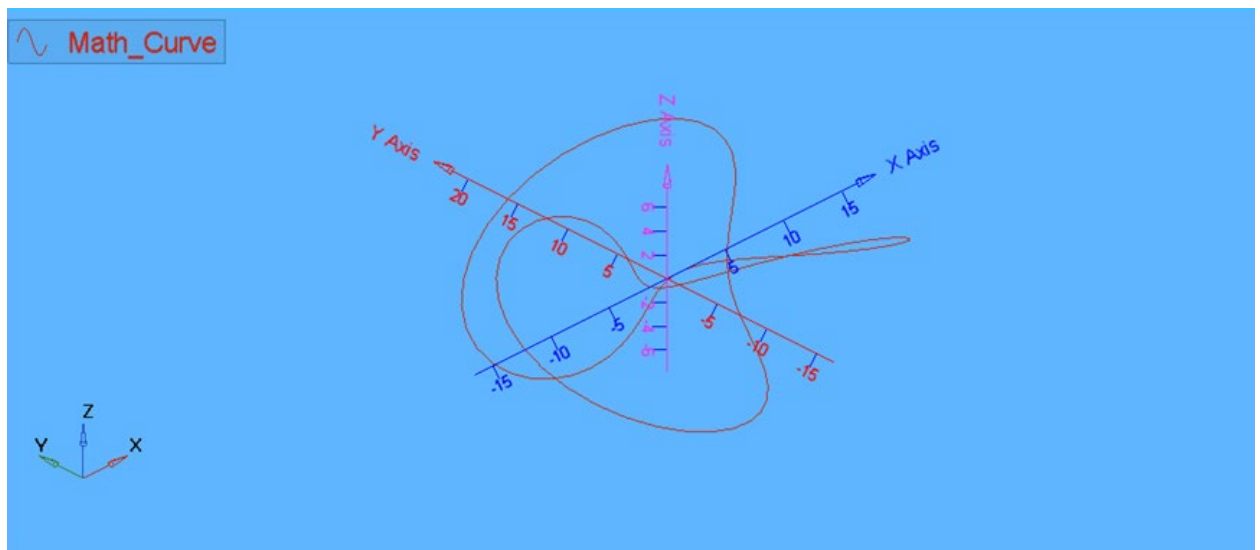
2. Click the buttons to move to the next points along the **X**, **Y**, and **Z** axis, respectively.
3. Click the buttons to move to the maximum and minimum point on the curve, respectively.

Step 3: Working with the Axes Panel

1. Click the **Axes** panel icon, .
2. Pick a color from the color palette for the **X** axis.
3. Click on the tabs for the **Y** and **Z** axes, respectively, and change the colors of the respective axis.
4. Click the **Shading** tab.




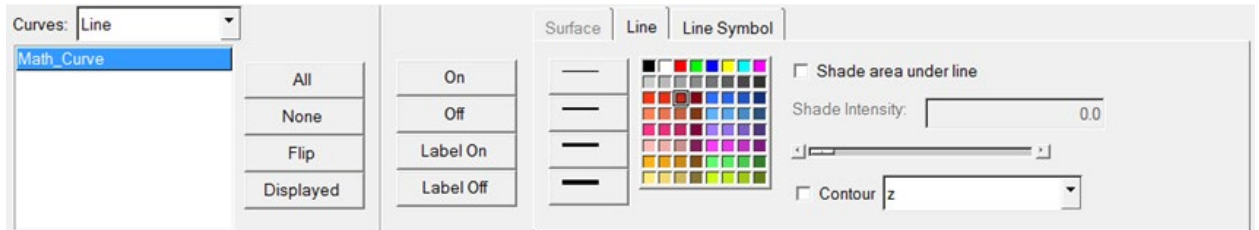
5. Verify that the **Grid Style:** is **Box** and change the **Grid line color**.
6. Verify that the **Axes lengths** is set to **Automatic**.
7. Check the **Lines** option for **Grid Style**.
8. Change the **Background** color by selecting a color from the palette.



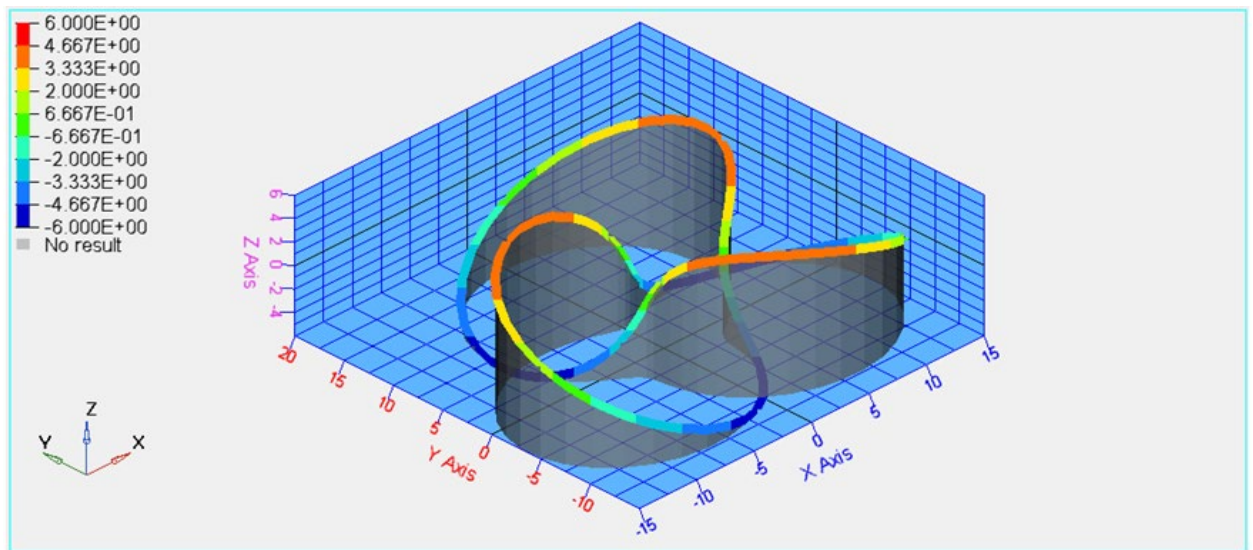
9. Go back to the **Box** option for **Grid Style**.

Step 4: Editing the Curve Attributes and Contouring the plot

1. Click the **Curve Attributes** panel icon, .
2. Verify that the **Line** tab is active.
3. Change the line thickness and color by selecting from the panel options.



4. Activate the **Shade area under line** option.
5. Move the **Slider Bar** under **Shade Intensity** to increase the intensity to 0.75.
6. Activate the **Contour** option.
7. Select the axis in the pull-down menu to be **Z** axis.



8. Repeat the previous step for the **Y** Axis.