## Task 03 - Custom Colormap in Matplotlib

This task demonstrates how to create and apply a custom colormap in Matplotlib.

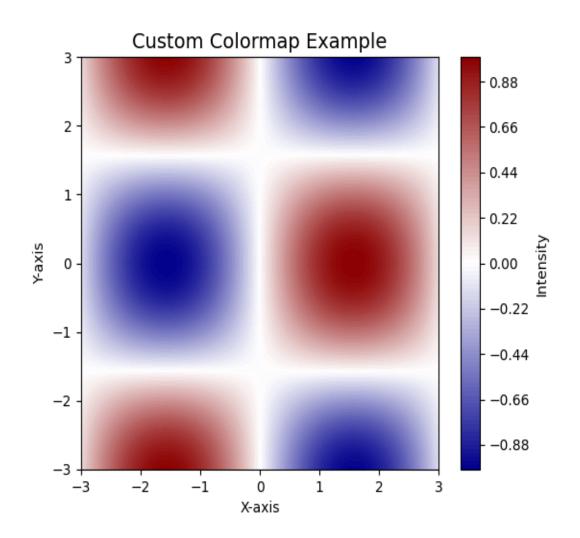
## # Steps:

Imported necessary libraries: numpy, matplotlib, LinearSegmentedColormap.
Defined a list of colors (dark blue, white, dark red).

3. Created a LinearSegmentedColormap from the list of colors.

4. Generated sample data using a sine-cosine function.

5. Applied the custom colormap in a contour plot with colorbar.



## # Observations:

- 1 LinearSegmentedColormap is useful for continuous gradient scales.
- 2 This approach is particularly effective for heatmaps, contour plots, and scientific data visualization.
- 3 Custom colormaps allow full control over visualization color schemes.