

GIMP ACTIVITY-2

Working with Color Tools

Objective

To understand and apply various **Color Adjustment tools** in **GIMP** for enhancing image appearance, correcting colors, and adjusting brightness and contrast.

Color Tools Covered

- Brightness–Contrast
- Levels
- Curves
- Hue–Saturation
- Color Balance

Lab Task–1: Brightness and Contrast Adjustment

To increase or decrease the brightness and contrast of an image.

Steps to Perform

1. Open **GIMP**.
2. Click **File** → **Open** and load an image.
3. Go to **Colors** → **Brightness–Contrast**.
4. Move the **Brightness** slider to adjust lightness.
5. Move the **Contrast** slider to adjust difference between light and dark areas.
6. Observe changes in the preview.
7. Click **OK** to apply.

Lab Task–2: Levels Tool

To correct tonal range and improve image exposure.

Steps to Perform

1. Open the image in **GIMP**.
2. Click **Colors** → **Levels**.
3. Observe the **Histogram**.
4. Adjust:
 - **Black point** (left slider)
 - **White point** (right slider)
 - **Midtones** (middle slider)
5. Use **Auto Input Levels** for automatic correction (optional).
6. Click **OK** to apply changes.

Lab Task–3: Curves Tool

To fine-tune brightness and contrast using a curve graph.

Steps to Perform

1. Open the image.
2. Go to **Colors** → **Curves**.
3. Click on the curve line to add control points.
4. Drag points upward to brighten and downward to darken.
5. Select individual **RGB channels** to adjust specific colors.
6. Click **OK** after adjustment.

Lab Task–4: Hue–Saturation Tool

To modify color tone, intensity, and lightness.

Steps to Perform

1. Open the image.
2. Go to **Colors** → **Hue-Saturation**.
3. Adjust:
 - **Hue** to change color tone
 - **Saturation** to increase or decrease color intensity
 - **Lightness** to brighten or darken
4. Choose specific colors (Red, Green, Blue, etc.) if required.
5. Click **OK**.

Lab Task–5: Color Balance Tool

To adjust the balance of colors in shadows, midtones, and highlights.

Steps to Perform

1. Open the image.
2. Click **Colors** → **Color Balance**.
3. Select tonal range:
 - Shadows
 - Midtones
 - Highlights
4. Adjust sliders:
 - Cyan ↔ Red
 - Magenta ↔ Green
 - Yellow ↔ Blue
5. Enable **Preserve Luminosity**.
6. Click **OK**.