

## 1. Filter Gallery

- **Definition:** The Filter Gallery in Photoshop is a tool that allows you to apply a variety of creative filters to your image. It provides a visual preview of effects like distortions, artistic filters, sketch effects, and more.
- **How to Use:**
  - Go to **Filter > Filter Gallery**.
  - Choose a filter from the list (e.g., Artistic, Brush Strokes, Sketch, etc.).
  - Adjust settings like intensity, radius, and more using the options in the Filter Gallery.
- **Uses:** Great for creative image manipulations, applying textures, stylizing photos, or creating special effects.

## 2. Adaptive Wide Angle

- **Definition:** The Adaptive Wide Angle filter is used to correct distortion caused by wide-angle lenses. It straightens lines that might have become curved, especially in architectural or landscape images.
- **How to Use:**
  - Go to **Filter > Adaptive Wide Angle**.
  - Use the **Constraint Tool** to define areas of the image that need to be straightened.
  - Photoshop will analyze the image and attempt to correct the distortion.
- **Uses:** Ideal for correcting barrel or pincushion distortion that occurs with wide-angle or fisheye lenses.

## 3. Camera Raw Filter

- **Definition:** The Camera Raw Filter applies raw editing features directly within Photoshop, similar to working with images in Adobe Camera Raw.
- **How to Use:**
  - Go to **Filter > Camera Raw Filter**.
  - This will open up the Camera Raw interface where you can adjust exposure, contrast, highlights, shadows, etc.
- **Uses:** Allows for advanced image adjustments like color correction, sharpening, noise reduction, and lens profile corrections. It's particularly useful when working with raw image files (e.g., .CR2, .NEF, .DNG).

## 4. Lens Correction

- **Definition:** The Lens Correction filter is used to fix distortions and aberrations in an image caused by the lens used, such as barrel distortion, chromatic aberration, and vignetting.
- **How to Use:**
  - Go to **Filter > Lens Correction**.

- You can either select a preset lens profile from the list, or manually adjust settings such as **Remove Distortion**, **Chromatic Aberration**, and **Vignette**.
- **Uses:** Particularly useful for images taken with wide-angle or zoom lenses, or if you notice color fringing or blurring at the edges of the image