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The study of the laws of optics—the way the human eye, camera, and computer interact—can help you learn some of the things you need to know to take good pictures, but it's only part of the equation. Understanding the idea of exposure is just as important as knowing the details of the lens, shutter speed, and lighting. Try to at least understand the concepts before moving forward; they really help understanding the details. ## Using the Histogram You use the histogram to measure how much or how little of a particular color is present in your image. Figure 14-3 shows the histogram for a shot of a desert landscape with a sky that has a mostly blue tint. FIGURE 14-3: Adjust the exposure accordingly. You can also use the histogram to measure the amount of contrast in an image. High-contrast images tend to have more of a contrasty look, while images with less contrast and more tonal (shades of gray) contrast have a duller look. \* \* \* Both the histogram and exposure meter (discussed later in this chapter) are at the same place on the image. If you use auto exposure (AE), the camera always selects the exposure settings that you provide. Chapter 10 gives you the lowdown on auto exposure. \* \* \* ## Recording Image Data Although not \_all\_ images are made with a digital camera, nearly all digital images are stored as a pixel array. A pixel is a tiny dot in the final image, like the ones in the left image of Figure 14-4. Photoshop creates the image by setting and turning on each individual pixel on the computer monitor (right image). FIGURE 14-4: The process of creating an image using pixels takes place in the image's pixel array. Although pixels are tiny dots, the pixel array holds the vast majority of the image data. Because pixels are so small and only one color (RGB), a pixel array of hundreds of thousands of pixels gives you a huge number of colors. A pixel color is created by altering the luminance (brightness) of the RGB pixels in the pixel array. Photosites are an area on a sensor that collects light, enabling the camera to distinguish whether pixels are bright or dark, resulting in a high-contrast image or a low-contrast image, respectively. The size of the photosites also affects the contrast in the final image.

If you are on a budget, Photoshop is an expensive program, but with Photoshop Elements you can create professional quality work from home, or from your apartment. Like in Photoshop, the basic functionality of Photoshop Elements are divided into three main areas: Create Edit Manage Files These can be referred to as the toolbox, the files and the folder. Creating Photoshop Elements is designed to be a tool for creativity. It does not include all of the features of a professional photo editing software, it is used to create images, but it can be used to edit images too. Photoshop Elements does not include complicated features such as layers, masking, cloning or adjustments. It does have a few tools such as several image editing filters and transformations. Photoshop Elements is not intended to create beautiful, professional quality images, it is designed to create simple images such as receipts, artwork, photos and creative designs such as logos. This doesn't mean the program is limited in quality. It's fairly easy to create basic layered, textured and image effects. Editing Photoshop Elements has most of the features of a full-fat version of Photoshop but without all of the extra time-consuming features that are included in the full version. This includes filters, adjustment layers and masking. Photoshop Elements has some basic image editing features like masking, adjustment layers and layer styles. These editing tools can be added to a project by dragging and dropping them onto an image. The Editable area has icons for these tools, some of which are duplicated but are new options for us Elements users. For example, the Crop tool is included, as it's widely used but was not available in previous versions. Masking When a picture or image is opened in Photoshop Elements, a mask is created behind the image that can be used to make it easier to edit areas of the image. This is useful for cropping images, removing parts of a picture, and adjusting parts of it. Tools Photoshop Elements has several editing tools that are available, most of them are basic. There is a basic pen tool, the Eraser tool, the Fill and Stroke options, the clone tool and the Warp tool. The pen tool allows you to easily draw freehand lines across the image, to make path, work on shapes, erase, and straighten. 388ed7b0c7

The invention relates generally to semiconductor devices and, more particularly, to structures and methods for achieving high performance devices with reduced deleterious effects to material quality that can occur during device processing. Increasing semiconductor device performance has long been a focus of the electronics industry. Most generally, component performance has been increased by integrating more functions on a single semiconductor chip. In addition, various types of passive components have also been integrated on-chip to reduce chip size, to provide better frequency response, and to improve the ease of integration into other electronic systems. One type of material that is widely used in semiconductor devices is silicon. However, silicon is easily oxidized by ambient oxygen and by many gases used in processing steps in the manufacture of devices containing silicon, such as plasma etching and plasma-assisted etching. Thus, the presence of an oxide film on the surface of silicon often limits the properties of the device being formed, and limits the type of devices that can be formed. One technique that has been used to address the problem of silicon oxide growth on silicon is to "etch-back" the surface to minimize the presence of an oxide surface layer. A typical etch-back process employs a series of wet etch steps using various solvents to remove the oxide surface film and, eventually, the silicon surface as well. Unfortunately, there are several process steps in which the silicon surface is exposed to contaminants or chemicals that can degrade device performance. One type of contaminant that can cause significant degradation in device performance is boron. For example, boron is incorporated in the gate electrode of an n-channel MOS device to adjust work function and to adjust threshold voltage. If the gate electrode contains boron, the threshold voltage of the device will be adjusted to a lower value in order to prevent holes from being injected into the gate during operation. However, the presence of boron in the gate electrode can cause some problems. For example, boron atoms can diffuse from the gate electrode into the underlying channel region. The presence of a boron-containing dopant in a channel region can be a significant factor in the suppression of the mobility of the carriers in the channel. Boron atoms from the gate electrode can reduce the mobility of carriers in the channel by as much as 1.5 times the extent that boron atoms are present in the channel region alone. To prevent this diffusion of boron, boron is often doped into the source and

**What's New In?**

\*\*\*\*\* The Pen tool is used for designing, drawing, and creating graphics. The Brush tool is used for painting, retouching, and drawing on images. The Dodge tool is used for repositioning the pixels on an image. The Burn tool is used for healing and de-aging images. The Grab tool is used for grabbing and moving content in an image. The Rectangular Selection tool is used to select an area of an image The Magic Wand tool allows you to select specific pixels that are similar to each other. The Lasso tool allows you to draw areas, shapes, and freehand drawing The Pencil tool allows you to draw on images \*\*\*\*\* The Curve tool is used for drawing circles, ellipses, and polygons. The Eraser tool is used for removing or erasing pixels from an image. The Sharpen tool is used for sharpening or blurring an image The Gradient tool can be used for coloring images The Refine Edge tool is used for editing edges and straightening an image \*\*\*\*\* The Gradient tool allows you to add a Gradient Fill or Blend The Eye dropper tool allows you to select a color from an image The Information panel allows you to see detailed information about how an image was prepared The Channels panel allows you to view and manipulate the colors in an image The Hue-Saturation panel allows you to change the color in an image The Levels panel allows you to adjust the brightness and contrast in an image

#### System Requirements For Adobe Photoshop CS3:

You will need to play at least an hour in order to understand the mechanics and strategy of these great cards. If you'd like to know more information on how to get to this point, I have a story and video available. For the best experience, give me a few minutes to unlock the main missions of the story mode (without a cheat). I also have a video tutorial available to help explain the game even more. + Show Spoiler + Introduction Deckout! is a 3D turn based

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