Photoshop CIB Chapter 5 Correcting and Enhancing Digital Files

**A *camera raw* file contains unprocessed picture data from a digital camera’s image sensor.** Many digital cameras can save images in camera raw format. Think of camera raw files as photo negatives. You can go back and reprocess the file any time you like to achieve the results you want. **Camera Raw** provides extensive controls for adjusting white balance, exposure, contrast, sharpness, tone curves, and much more.

**White balance comprises two components. The first is *temperature*,** which is measured in kelvins and determines the level of “coolness” or “warmness” of the image—that is, its cool blue-green tones or warm yellow-red tones. **The second component is *tint*,** which compensates for magenta or green color casts in the image.

**Making tonal adjustments in Camera Raw**

Other sliders in the Basic panel affect exposure, brightness, contrast, and saturation in the image. Except for Contrast, moving a slider to the right lightens the affected areas of the image, and moving it to the left darkens those areas. Exposure essentially defines the ***white point***, or the lightest point of the image, so that Camera Raw adjusts everything else accordingly. Conversely, the Blacks slider sets the ***black point***, or the darkest point in the image. The **Highlights and Shadows sliders increase detail in the highlights** and the shadows, respectively.

**About saving files in Camera Raw**

The **JPEG (Joint Photographic Experts Group***)* file format is commonly used  
to display photographs and other continuous-tone RGB images on the web. Higher-resolution JPEG files may be used for other purposes, including high- quality printing. JPEG format retains all color information in an image, but compresses file size by selectively discarding data. The greater the compression, the lower the image quality.

**TIFF (Tagged Image File Format)** is used to exchange files between applications and computer platforms. TIFF is a flexible format supported by virtually all paint, image-editing, and page layout applications. Also, virtually all desktop scanners can produce TIFF images.

**PSD format** is the Photoshop native file format. Because of the tight integration between Adobe products, other Adobe applications

Quiz Questions

**Review questions**

**. 1**What happens to camera raw images when you edit them in Camera Raw?

**. 2**What is the advantage of the Adobe Digital Negative (DNG) file format?

**. 3**How do you correct red eye in Photoshop?

**. 4**Describe how to fix common camera lens flaws in Photoshop. What causes these defects?