## lab::working with pixels

- 1. Copy the Lab\_Resources folder from the GD\_121C folder located on the Data Drive to the Student Work folder n your computer. Rename the folder on your computer as follows: firstname lastname.
- 2. Open each of the Photoshop documents, perform the change listed below to the appropriate file, and save the changes and close the document.
  - Climber\_01 Reduce the printing size and the pixel count by 50%.
  - Climber\_02 Enlarge the printing size (but not the pixel count) to 6 inches wide by 9 inches tall.
  - Climber 03 Change the resolution to 20 dpi without resampling the image.
  - Climber\_04 Reduce only the width (not the height) of the image to 30% of its current size (hint: turn off constrain proportions).
  - Climber\_05 Add one inch to each side of the canvas (top, bottom, left, right).
  - Climber\_06 Subtract one inch from only the top of the canvas.
  - Climber\_07 Convert to Indexed Color mode. Use the Local (Adaptive) palette, 32 colors and Dither set to None.
  - Climber\_08 Convert to Grayscale mode, then to Bitmap mode using the Diffusion Dither method.
  - Climber 09 Leave open for the next step...
- 3. Climber\_9 should now be the only document open in Photoshop. In this document, look at the Channels individually (Window > Channels) and note their look and composition. Use the shortcut command keys (Command-~, Command-1, Command-2 and Command-3) or the Channels Palette (Window > Channels) to navigate through the Channels.
- 4. Convert Climber\_9 to CMYK using Image > Mode > CMYK Color. Again, look through the Channels and notice any differences between the RGB and CMYK Modes. Also look for any differences in color between the two (Command-4 will show the Black channel; Command-Z will toggle between Undo and Redo).
- 5. Save Climber\_9 and close the image.

6. Create a new document in Photoshop with the following specs:

Name: firstname\_lastname.psd

Width: 1000 pixels Height: 400 pixels

Resolution: 100 pixels per inch

Color Mode: RGB

Canvas: Transparent

Note that the following steps result in a somewhat arbitrary-looking image. Don't worry too much if your work doesn't look like much-it shouldn't.

- 7. From the Swatch palette (Window > Swatches), select any color, then select Render > Clouds from the Filter menu.
- 8. Alter the image size so that the width and height are both 4 inches. The image should appear "squished" (Resample Image will need to be checked, and Constrain Proportions unchecked).
- 9. Select Image > Rotate Canvas > Arbitrary and rotate the canvas 25° counterclockwise.
- 10. Change the Canvas Size to remove 100 pixels from both the width and the height of the image.
- 11. Change the Image Size so that the width is exactly 2 inches wide. (Resample Image will need to be checked, and Constrain Proportions unchecked).
- 12. Once again, select Image > Rotate Canvas > Arbitrary and rotate the canvas 25° counter-clockwise.
- 13. Flip the image horizontally using the Image > Rotate Canvas > Flip Canvas Horizontal.
- 14. Save your completed file in the folder you created in the first step of this Lab (the one located in the Student Work folder on the Desktop).
- 15. Copy the folder containing your work for this lab into the GD\_121C folder on the Data Drive.