Errata

Computer Graphics: Programming in OpenGL for Visual Communication
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Prentice-Hall, 2007

Chapter 2

Page 119, second paragraph below the number list, "transformation studies" should be "transformation stacks."

Chapter 3

In the sequence of transformations on page 143, the second "T_0" should be "T_1".

Chapter 5

On page 193, immediately before the section "Emphasis Colors", there is a reference to a Chromadepth display, but no such display is provided. My mistake.

Chapter 6

In Figure 6.12, both in the chapter and in the color insert, the credit is incorrect. It should read "Courtesy of Dani Lischinski".

In the smooth-shading example on page 240, the equation is incorrectly given as $f(x,y) = 0.3*(x^2 + y^2 + t)$. In fact, it should be $f(x,y) = 0.3*\cos(x^2 + y^2 + t)$. The example code below the equation, however, is correct.

Chapter 7

On page 261, there is a reference to "the CD for the book" that should not be present. Since the student does not have access to the book's pages at Prentice-Hall, this should read "code for all examples is available from the instructor."

In the last paragraph before "The Pick Matrix" on page 272, the phrase "we began by picking the name dummy into the stack" should be "we began by pushing the name dummy onto the stack".

Chapter 8

In the discussion of 1/f noise on page 300, we talk about "white noise functions f_N at various frequencies M" when we should have said "white noise functions f_M at various frequencies M". Later in the same paragraph we talk about the sum of the functions at frequencies 2^N having sum $\Sigma(1/N)$ when, in fact the sum should be $\Sigma(1/2^N)$.

Chapter 9

The parametric equation for spirals on page 342 has the wrong equations for the value of y. That should be $y = at\cos(ct) + b$.

Figure 9.26 should have had a credit; it is courtesy of Jordan Maynard, as noted in the text.

On page 369, in the paragraph after the code fragment, the location of u and v should be $a \le u \le b$ and $c \le v \le d$, not $a = u = b$ and $c = v = d$.

Chapter 11

On page 402, there are two expressions involving p_k; this should be p_K.

On page 403, just before Figure 11.2, there is an expression $s(t)\ 5 = t$ in the text. This should simply be $s(t) = t$.

On page 404, in the third paragraph under Frame-Based Animation, the phrase "these are away the parameters you use" should be "these are already the parameters you use".

Chapter 13

In the matrix M on page 458, there is an error in the third element of the second row. The row should be $\begin{bmatrix} 3 & -6 & 3 & 0 \end{bmatrix}$.

Chapter 14

The first mention of Rayshade on page 477 says twice that it is from Stanford.

In the equations for the fern IFS on pag 479, the equation for $f_2(x,y)$ is missing a decimal point. It should be
$$f_2(x,y) = (.20x - .26y,\ .23x + .24y + 1.6)$$

The caption for Figure 14.8 on page 481 should be "The fern image generated by the iterated function system."

Chapter 15

The figure credit for Figure 15.4 on page 494 should be Mike Bailey, Oregon State University.

In the discussion of video on page 501, the list of standard formats should be NTSC, PAL, or SECAM.