

sRGB Gamma Calculation

Question: sRGB has a gamma of 2.2. Why do the equations have an exponent of 2.4?

Answer: The 2.4 exponent compensates for the offset and gain in the equation. If you plot the equation exactly as it is shown in the document on top of a normal gamma curve with exponent of 2.2 and 0 offset, you will see that they are roughly equivalent. The offset and gain along with the 2.4 gamma are intended to make the digital encoding and interpolation work better on some systems.

