L02 Activity Binary Representation

I used the Binary Translator (https://www.binarytranslator.com/) to practice converting binary strings to decimal. I found this online translator to be very efficient in converting binary to decimal and vice versa. I actually enjoy the process of converting decimal numbers to binary very much. For me, it feels like I am using a secret language that no one else knows about. When you really look at binary numbers, you start to realize that the logic behind this language of computers is quite simple and quite fascinating at the same time. It really is amazing how just 8 variations of on/off can lead to 255 unique values. And when you go beyond 8 bits, the number of unique values grows exponentially. I believe that binary code was a key component to creating some of the first computers that were both practical and affordable enough for everyday people to use. “During the 1940s, it became increasingly clear that the binary system worked better than other digital forms, including the decimal system, for performing logical operations using circuits composed of on-off switches” (Isaacson, 2014, p. 39). Binary code is still very important in modern computers today. After all those years, computers have become very complex, but one thing still remains. Binary code is still the language in which these complex machines speak.

References:

Isaacson, W. (2014). *The innovators: How a group of hackers, geniuses, and geeks created the digital revolution* (First Simon & Schuster hardcover ed.). Simon & Schuster.