

## BASE64 Encoding

The speaker in the video discusses Base64 encoding. Base64 is a method for converting any type of data into a long string of plain text. This is accomplished by taking three bytes of data and returning four. The four bytes are then divided into four equal parts, each of which is assigned a different code. The base64 index table is represented by this code. The letters are represented in ascii, but this time no more than seven bits are allowed. This is accomplished by mapping the six-bit number onto the index table. After that, the letters are represented in ascii. To reverse the process, take the encoded message and run it through the index table in the opposite direction. String the bits in that 24 bit number together again, split them into threes, and map them back to ascii.