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Project 4: Steganography

The goal of this project is to be able to embed any file within another file of one’s personal choice, except for an image file. For my project, I have chosen the .txt (plaintext) format. The way I have implemented this is using the asci control characters Record Separator (0x1E) and Unit Separator (0x1F) to represent bits of the embedded message. Since those characters appear as zero-width whitespace in windows notepad, A secret message can be embedded with affecting the appearance of the text. (make sure you open the message in notepad by selecting to encode in ANSI) Using programs like Notepad++ may reveal those characters to the user. In my implementation, one byte of the host file is followed by a corresponding asci control character of the embedded message. 8 control characters correspond to 1 byte of the embedded message. I came up with this method on my own; I did not find it on the internet.

In this zip file, I have included some examples of the program. I have provided 2 secret messages, one text file and one image file. I have supplied the King James Bible as a host file (It’s public domain) and 2 and the 2 messages embedded in it.



