# CISC/CMPE-365

It can be determined that the canonical collection affects the efficiency of the Huffman coding algorithm. It could be seen through the testing data that after encoding using CC1, the text files generated where larger. From testing all the Collections, it was determined that the bigger the training set the better. This makes sense as strings where used in this project instead of the use of actual bits. It was seen that the greater the collection# the smaller the size of the file is, thus proving the theory that a bigger data set is better for training.

**Canonical\_Collection1:**

Max: 2196057 bytes

Min: 847612 bytes

**Canonical\_Collection2:**

Max: 808034 bytes

Min: 312744 bytes

**Canonical\_Collection3:**

Max: 915217 bytes

Min: 372153 bytes

Output:

CMPE 365

Assignment #3 - Huffman Coding

Author: Jackson Wiederick

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Wrote: Part\_1/Code\_Strings.txt

Wrote: Part\_1/encodedmessage.txt

Wrote: Part\_1/decodedmessage.txt

Wrote: Part\_2/Canonical\_Collection1/Code\_Strings.txt

Wrote: Part\_2/Canonical\_Collection1/EarthASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection1/EarthASCII.txtEncodedMessage.txt

File: EarthASCII.txt

Size of file: 1132716 bytes

Wrote: Part\_2/Canonical\_Collection1/MysteryASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection1/MysteryASCII.txtEncodedMessage.txt

File: MysteryASCII.txt

Size of file: 1230900 bytes

Wrote: Part\_2/Canonical\_Collection1/MythsASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection1/MythsASCII.txtEncodedMessage.txt

File: MythsASCII.txt

Size of file: 2196057 bytes

Wrote: Part\_2/Canonical\_Collection1/SimakASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection1/SimakASCII.txtEncodedMessage.txt

File: SimakASCII.txt

Size of file: 847612 bytes

Wrote: Part\_2/Canonical\_Collection1/WodehouseASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection1/WodehouseASCII.txtEncodedMessage.txt

File: WodehouseASCII.txt

Size of file: 1099879 bytes

Wrote: Part\_2/Canonical\_Collection2/Code\_Strings.txt

Wrote: Part\_2/Canonical\_Collection2/EarthASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection2/EarthASCII.txtEncodedMessage.txt

File: EarthASCII.txt

Size of file: 433380 bytes

Wrote: Part\_2/Canonical\_Collection2/MysteryASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection2/MysteryASCII.txtEncodedMessage.txt

File: MysteryASCII.txt

Size of file: 475053 bytes

Wrote: Part\_2/Canonical\_Collection2/MythsASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection2/MythsASCII.txtEncodedMessage.txt

File: MythsASCII.txt

Size of file: 808034 bytes

Wrote: Part\_2/Canonical\_Collection2/SimakASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection2/SimakASCII.txtEncodedMessage.txt

File: SimakASCII.txt

Size of file: 312744 bytes

Wrote: Part\_2/Canonical\_Collection2/WodehouseASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection2/WodehouseASCII.txtEncodedMessage.txt

File: WodehouseASCII.txt

Size of file: 397700 bytes

Wrote: Part\_2/Canonical\_Collection3/Code\_Strings.txt

Wrote: Part\_2/Canonical\_Collection3/EarthASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection3/EarthASCII.txtEncodedMessage.txt

File: EarthASCII.txt

Size of file: 515336 bytes

Wrote: Part\_2/Canonical\_Collection3/MysteryASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection3/MysteryASCII.txtEncodedMessage.txt

File: MysteryASCII.txt

Size of file: 534069 bytes

Wrote: Part\_2/Canonical\_Collection3/MythsASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection3/MythsASCII.txtEncodedMessage.txt

File: MythsASCII.txt

Size of file: 915217 bytes

Wrote: Part\_2/Canonical\_Collection3/SimakASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection3/SimakASCII.txtEncodedMessage.txt

File: SimakASCII.txt

Size of file: 372153 bytes

Wrote: Part\_2/Canonical\_Collection3/WodehouseASCII.txtDecodedMessage.txt

Wrote: Part\_2/Canonical\_Collection3/WodehouseASCII.txtEncodedMessage.txt

File: WodehouseASCII.txt

Size of file: 485187 bytes