Compression (SNLP tutorial 4)

Vilém Zouhar, Awantee Deshpande, Julius Steuer

TODOth, TODOth May 2021

Organisation

TODO

Compression

TODO

Encoding

Task

Create coding (into binary) for the following recipe:

apple apple banana cherries apple dark_chocolate eggplant banana cherries banana ...



Fixed-width encoding















Issues?

- Encoding for and ??
- What do 110 and 111 mean?

Encoding - Huffman



Huffman Bonus

- When will the Huffman tree be balanced?
- How do we store the tree? Does the efficiency of this matter?
- Are there undefined sequences of bits when using Huffman encoding?
- Does the result of Huffman encoding depend on the text ordering?
 - E.g. ** ** ** vs. ** ** ** **
- Can there be two equally good Huffman encodings?

Resources

Twitter emojis