Practical tasks for Session 2. Text and Math

YOUR NAME

CURRENT DATE

Содержание

1 Multilingual input

The structure of this document is in my mother tongue: Russian (insert your actual L1 (or C2) other than English).
These phrases are in other languages (each phrase is a new paragraph, there is a vertical space before the first example):

Français: L'entropie de Shannon, due à Claude Shannon, est une fonction mathématique qui, intuitivement, correspond à la quantité d'information contenue ou délivrée par une source d'information.
Deutsch: Entropie (nach dem Kunstwort ἐντροπία) ist in der Informationstheorie ein Maß, welches für eine Nachrichtenquelle den mittleren Informationsgehalt ausgegebener Nachrichten angibt. [1]

2 Document layout

This document [2] has top margin of 3 cm, left - 3 cm, right 1.5 cm, bottom 2 cm.

3 Formula from Wikipedia

In information theory, the entropy of a random variable is the average level of "information", "surprise", or "uncertainty" inherent to the variable's possible outcomes. Given a discrete random variable X, with possible outcomes $x_1, ..., x_n$, which occur with probability$\mathrm{P}(x_1), ..., \mathrm{P}(x_n)$, the entropy of X is formally defined as:

$$\mathrm{H}(X) = -\sum_{i=1}^{n} \mathrm{P}(x_i) \log \mathrm{P}(x_i)$$

where Σ denotes the sum over the variable's possible values.

[1] this text is taken from multilingual Wikipedia: https://en.wikipedia.org/wiki/Entropy_(information_theory)
[2] this is a just an exercise