Hamming distance (from Wikipedia)

In information theory, the Hamming distance between two strings of equal length is the number of positions for which the corresponding symbols are different. Put another way, it measures the number of substitutions required to change one into the other, or the number of errors that transformed one string into the other".

For example:

- The Hamming distance between 1011101 and 1001001 is 2.
- The Hamming distance between 2143896 and 2233796 is 3.
- The Hamming distance between "toned" and "roses" is 3.
- For binary strings a and b the Hamming distance is equivalent to the number of ones in a xor b.

Source: Wikipedia http://en.wikipedia.org/wiki/Hamming_distance

Hamming distance

Informationstheorie