Using A clever operation in order to have The best possible encryption algorithm for a given message

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1 Demonstration

Let the message M be a matrix whose elements are either 1, either 0. Let the encrypted message \dot{M} be a matrix whose elements are either 1, either 0.

Let's find the relation R that project M onto \dot{M} and the relation \dot{R} that projects \dot{M} onto M.

Let's first notice that we have every possible answer for a given element in M and \dot{M} is a set of couples which are the element in M and the element in \dot{M} .

Let's notice that if the element in M and \dot{M} , are either identical or different.

The relation R must build the possible couples in order to be able to construct \dot{M} is the XOR operator. We then obtain the set of element in E where E is the encryption key :

Let's notice that the relation to obtain M from \dot{M} and E is also a XOR.