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The invention concerns a method for marking (A, B) and authentificating (C) an object (10) comprising the combination of two different data (K, N) mutually linked by means of a given arbitrary correspondence and used for authentificating the object, at least one of the two data (K) being intrinsically undetectable by an observer, the scanning of the two data and the verification of their mutual correspondence being performed during authentification of the object. The method is characterized in that the two data are non-random and said undetectable information is materialized by means interacting with the structure of the object.