BLOCKCHAIN TUTORIAL 4

Checksum

SOZASZSZD7OFEAOS99AA069A3D3BB37BSA4E B8680A4ADD0331056856C61BE22A09EB419E6 CACCESUM > 96641966





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Checksum



CHECKSUM

- Some identification numbers such as bank account numbers have some digits embedded in these numbers.
- used for error detection when you mistype the identification number.
- For example this is a Dutch bank account number: NL9 ABNA 0417 1643 00 expected checksum digit "91".

• These digits, which can be numbers or characters, are called checksum digits and are

In this example the 2 digit checksum value is "91". A special algorithm is applied to this bank account number to calculate this checksum value. If you mistype this bank account number NL9 ABNA 0417 1463 00, any Dutch bank application will notice this error because the checksum value of this number does not corresponds to the



CHECKSUM

- Cryptocurrency addresses such as Bitcoin are also using checksum digits.
- I am not sure if all Blockchain implementations are using checksum digits in their addresses.
- Checksum vs hash:
 - etc) and often to be fast to compute.

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• A checksum is generally designed to detect accidental errors in small blocks of data (such as Social Security numbers, bank account numbers, cryptocurrency addresses,

• A hash reduces large data to a small number, in a way that minimizes the chance of collisions. More information about hash, watch part 3 of the Blockchain video series.

