EXECUTIVE BRIEFING

Blockchain
with Simon Allardice

PLURALSIGHT

Block

transaction data

transaction data

transaction data

transaction data

transaction data
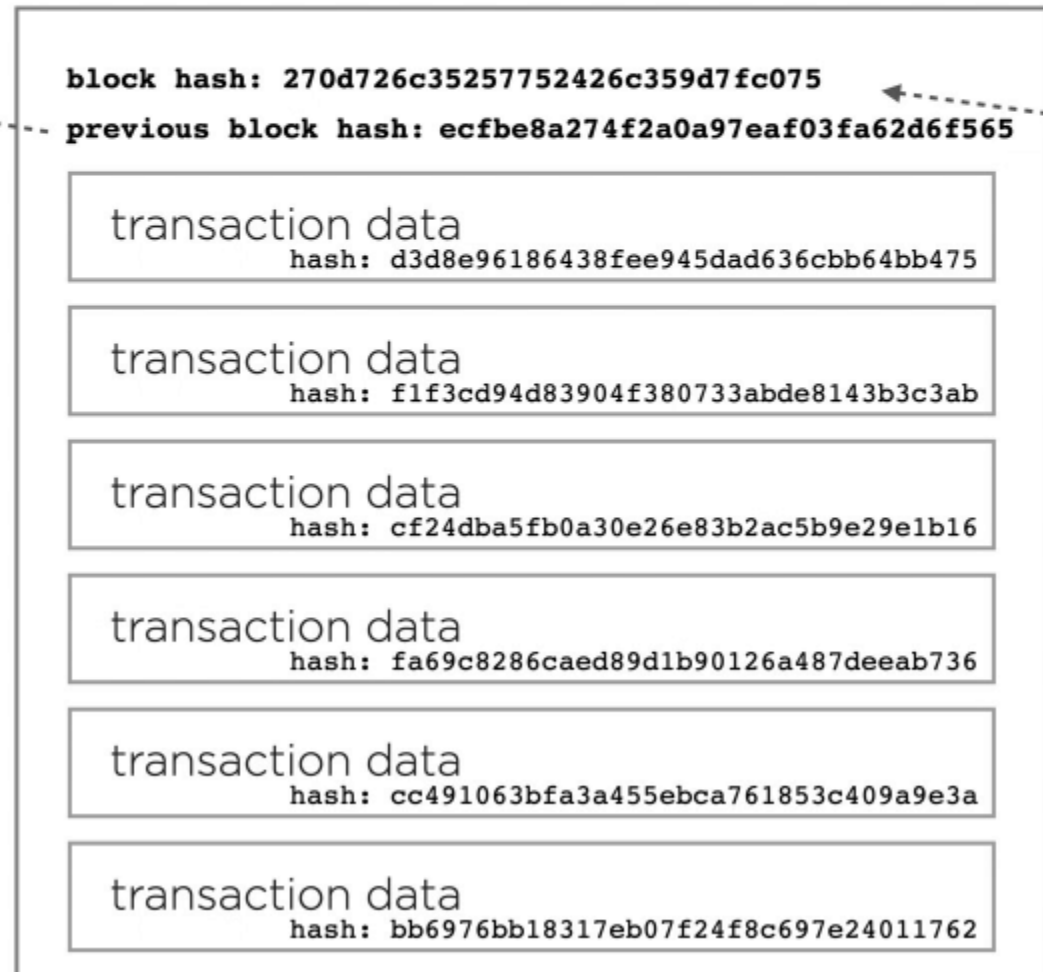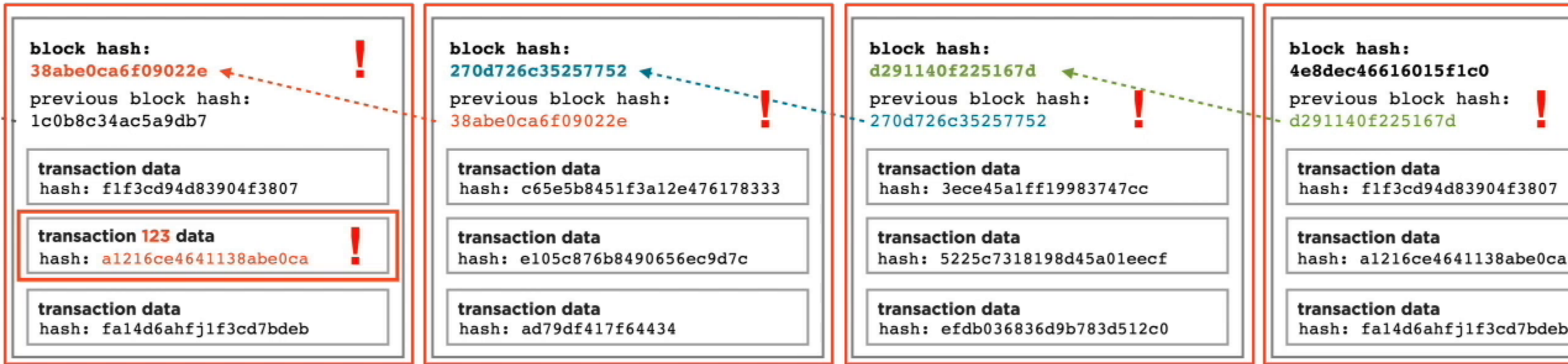
transaction data

Many Levels of Hashing

Block

block hash: **ecfbe8a274f2a0a97eaf03fa62d6f565**

previous block hash: 4f8c697e24011762bb66f

transaction data
hash: dd636cbb64bb4753d8e96186438fee945da

transaction data
hash: 733abde8143b3c3abf1f3cd94d83904f380

transaction data
hash: 6e83b2ac5b9e29e1b162cf24dba5fb0a30e

transaction data
hash: aed89d1b90126a487deeab736fa69c8286c

transaction data
hash: a455ebca761853c409a9e3acc491063bfa3

transaction data
hash: 07f24f8c697e24011762bb6976bb18317eb

New Block

block hash: **270d726c35257752426c359d7fc075**

previous block hash: **ecfbe8a274f2a0a97eaf03fa62d6f565**

transaction data
hash: d3d8e96186438fee945dad636cbb64bb475

transaction data
hash: f1f3cd94d83904f380733abde8143b3c3ab

transaction data
hash: cf24dba5fb0a30e26e83b2ac5b9e29e1b16

transaction data
hash: fa69c8286caed89d1b90126a487deeab736

transaction data
hash: cc491063bfa3a455ebca761853c409a9e3a

transaction data
hash: bb6976bb18317eb07f24f8c697e24011762

Blockchain is Tamper Evident

block hash:
38abe0ca6f09022e ❗

previous block hash:
1c0b8c34ac5a9db7

transaction data
hash: f1f3cd94d83904f3807

transaction 123 data
hash: a1216ce4641138abe0ca ❗

transaction data
hash: fa14d6ahfj1f3cd7bdeb

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block hash:
270d726c35257752

previous block hash:
38abe0ca6f09022e ❗

transaction data
hash: c65e5b8451f3a12e476178333

transaction data
hash: e105c876b8490656ec9d7c

transaction data
hash: ad79df417f64434

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block hash:
d291140f225167d

previous block hash:
270d726c35257752 ❗

transaction data
hash: 3ece45a1ff19983747cc

transaction data
hash: 5225c7318198d45a01eecf

transaction data
hash: efdb036836d9b783d512c0

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block hash:
4e8dec46616015f1c0

previous block hash:
d291140f225167d ❗

transaction data
hash: f1f3cd94d83904f3807

transaction data
hash: a1216ce4641138abe0ca

transaction data
hash: fa14d6ahfj1f3cd7bdeb

Permissionless Blockchain

Typical for currency and open platforms

Anyone can participate

Examples: Bitcoin, Ethereum

Permissioned Blockchain

Typical for business use

Invitation only

Permissions can be granular

Supply Chain

raw materials	factories	parts suppliers	warehousing	insurance

transportation	customs	distributors	retailers	customer

Blockchain for Supply Chain

Smart Contracts