





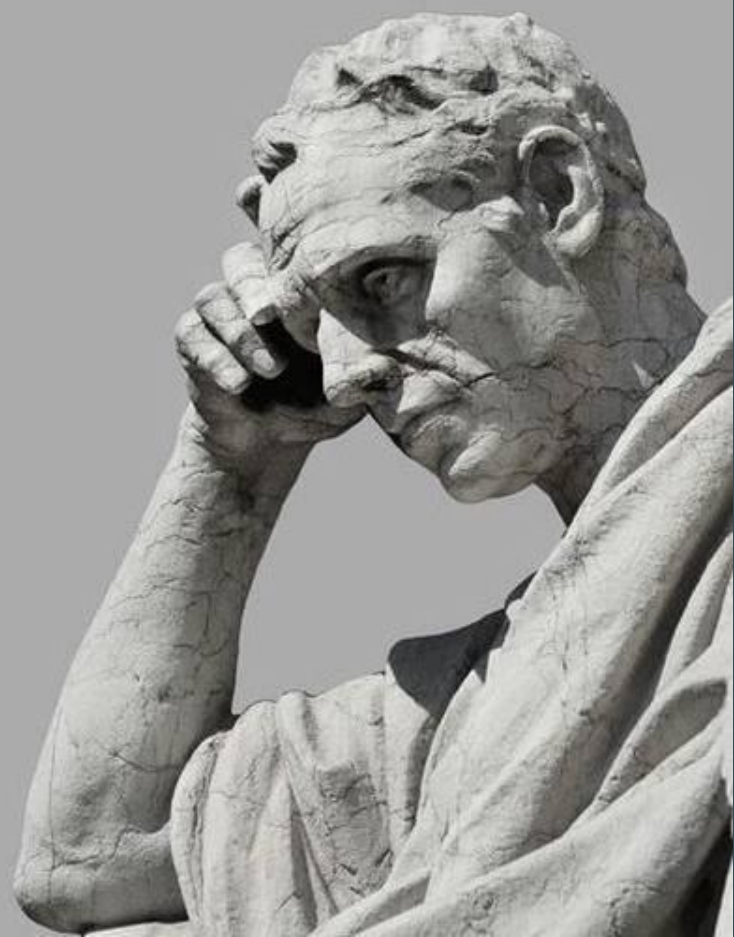
...

По Жицата у Вили

VoteChainge

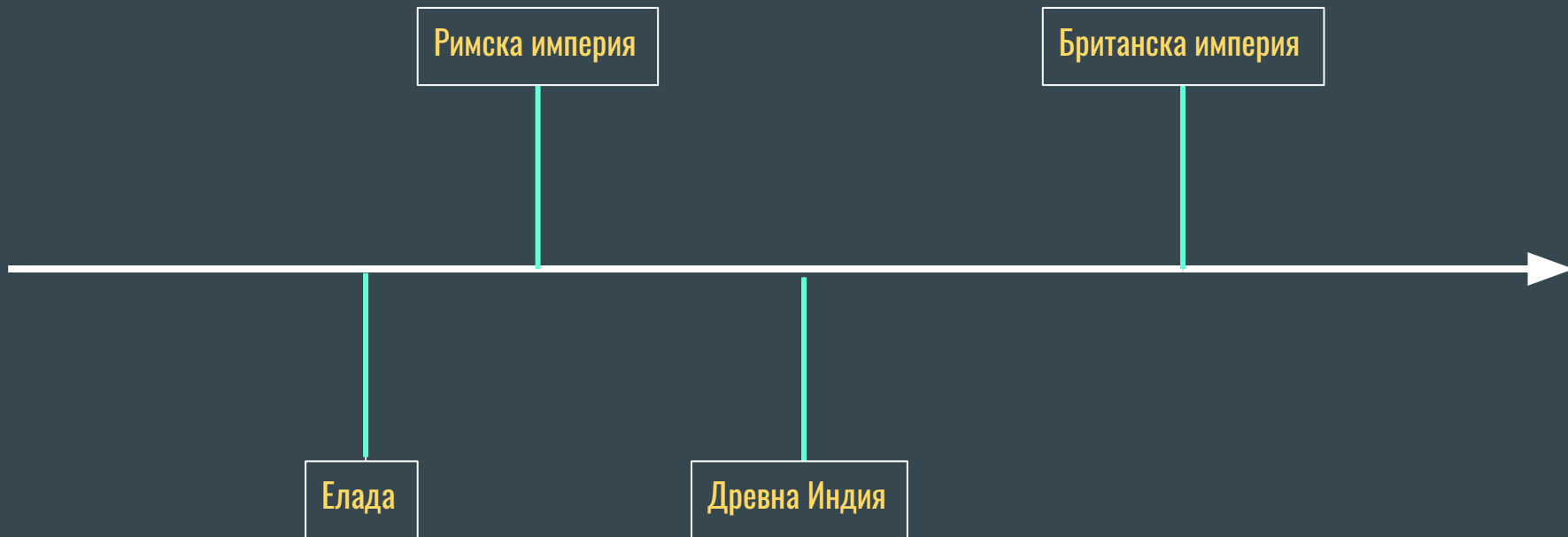
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По Жицата у Вили

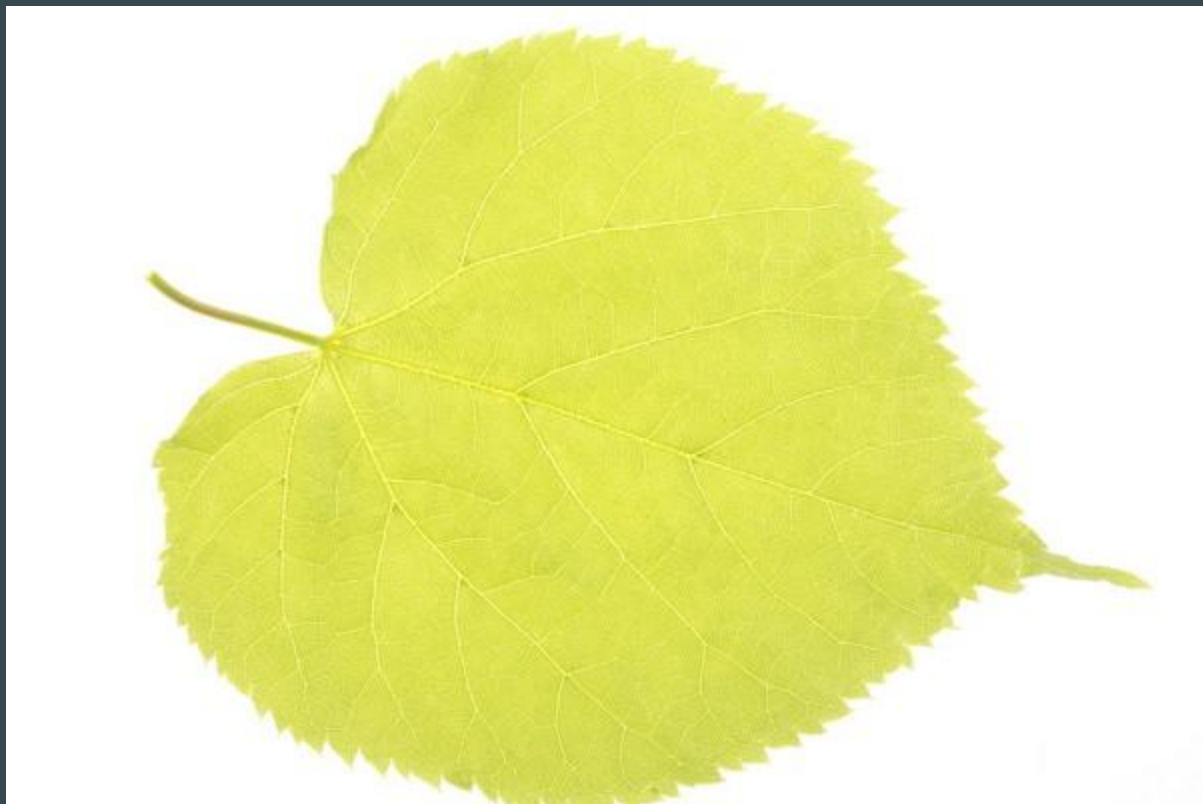


Малко история

Имало едно време







Cardigan

CARDIGANSHIRE ELECTION,

1880.

MR. L. P. PUGH begs to thank the Electors for the hearty promises of support he has received, and to inform them that his name will be **SECOND** on the Ballot Paper. Each Voter has only *One Vote*, and in Voting for Mr. PUGH, a X should be placed opposite his name as below.

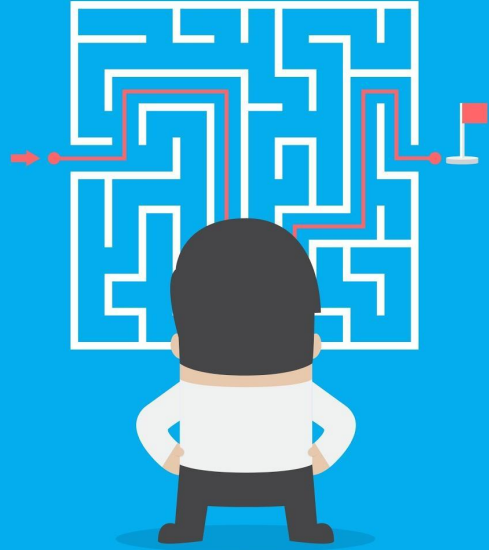
1	LLOYD. Thomas Edward Lloyd, Coedmore, in the County of Cardigan, Esquire.	
2	PUGH. Lewis Pugh Pugh, Abermaide, in the County of Cardigan, Esquire.	X

Under the Ballot it is absolutely impossible for any one to tell which way any Voter has Voted, unless informed by the Voter himself; and Mr. David Davies, M.P., has offered £1,000 to any one who can prove how any individual Voter has Voted.

Please Turn Over.

Имало едно време ... същото като сега?





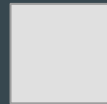




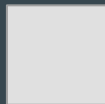
Станция А



Станция В



Станция Б

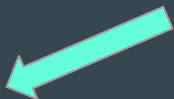


Станция А





Станция А



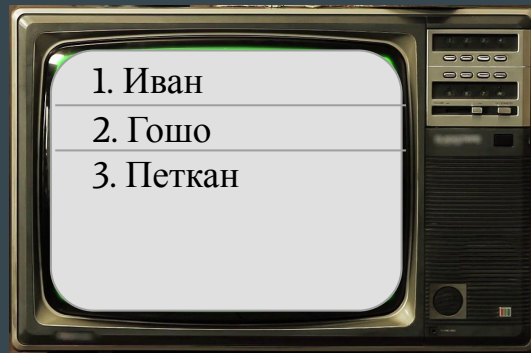
PIN: 9881



Станция А

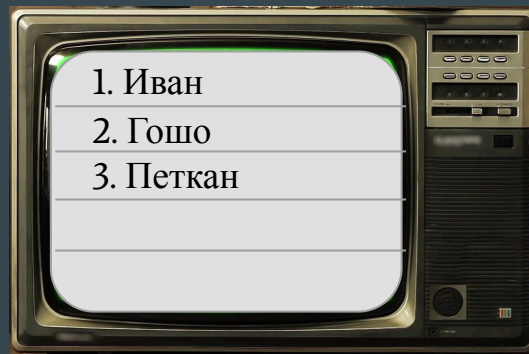


PIN: 9881





Станция А

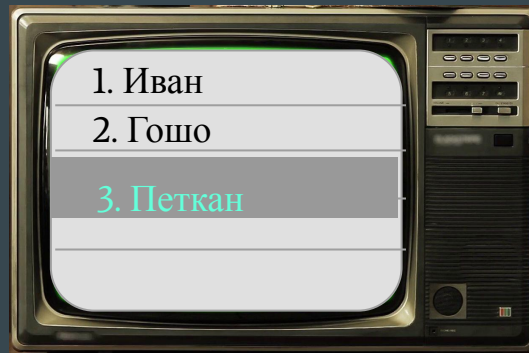


1. Иван
2. Гошо
3. Петкан



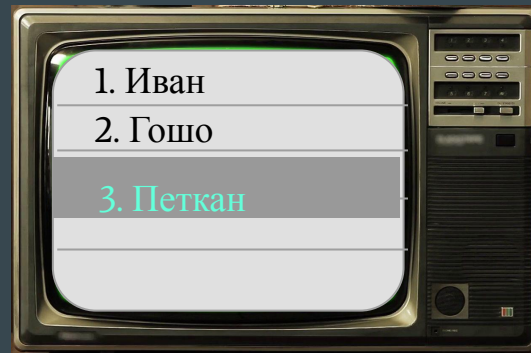


Станция А





Станция А



Нов глас



Станция А



1	<i>Signature</i>	10:03:24
2	<i>Signature</i>	10:05:41
2	<i>Signature</i>	10:08:04

Нов глас



Станция А



1	<i>Signature</i>	10:03:24
2	<i>Signature</i>	10:05:41
2	<i>Signature</i>	10:08:04
3	<i>Signature</i>	10:24:19

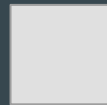
Станция А



Станция А



Станция В



Станция Б

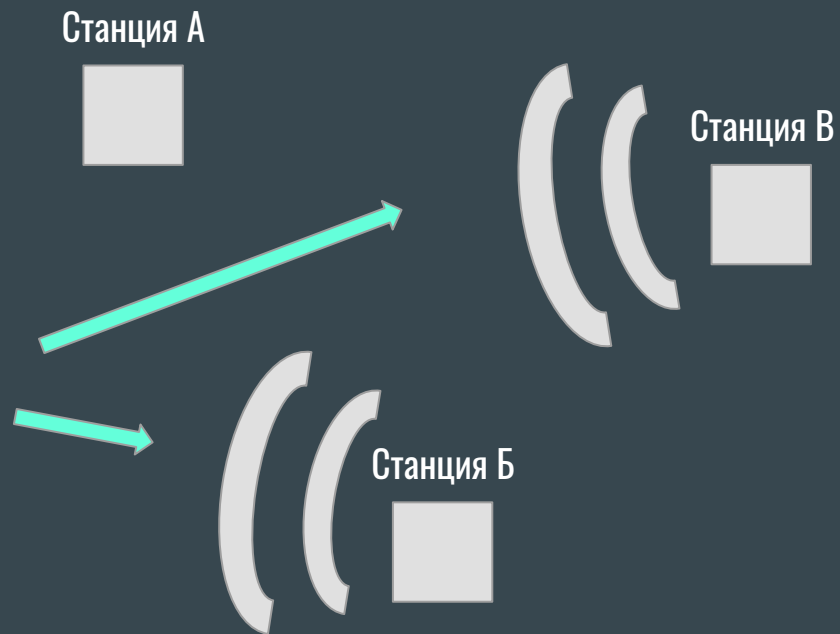


0101100

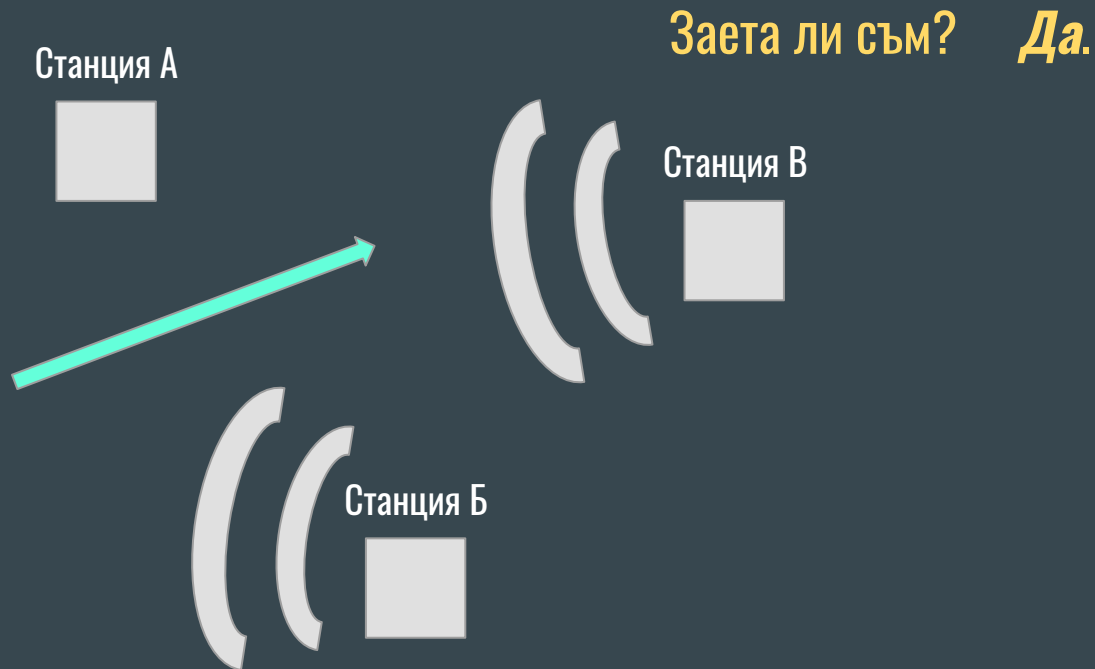
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Not validated block

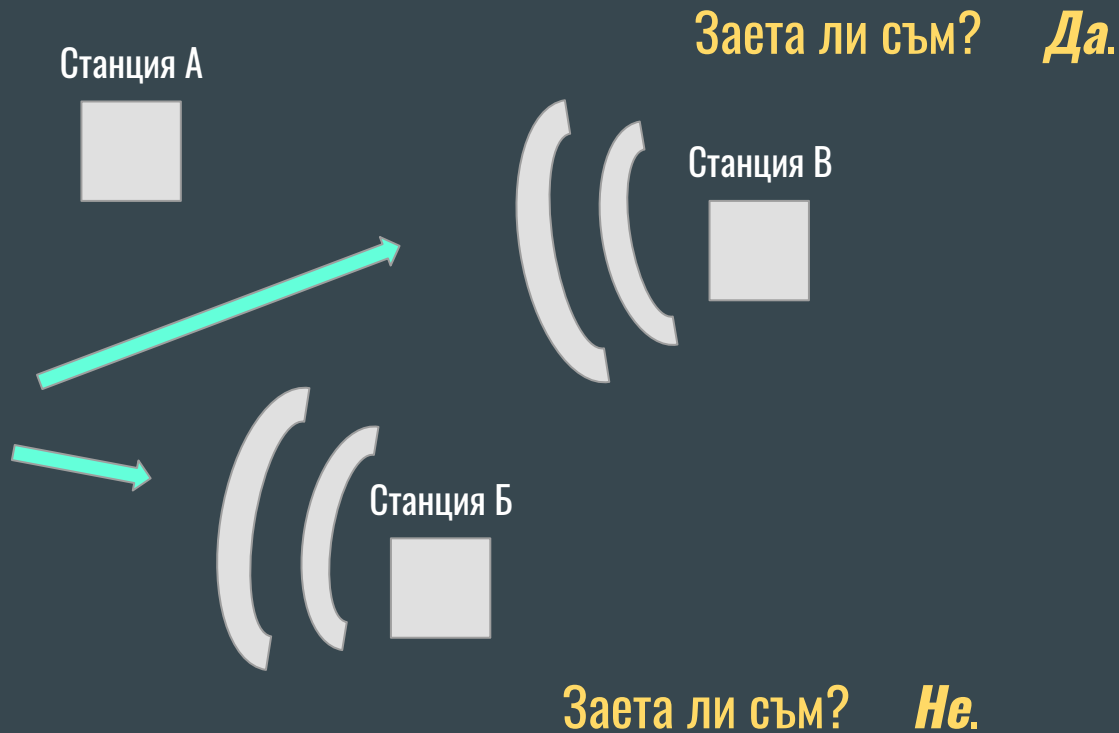






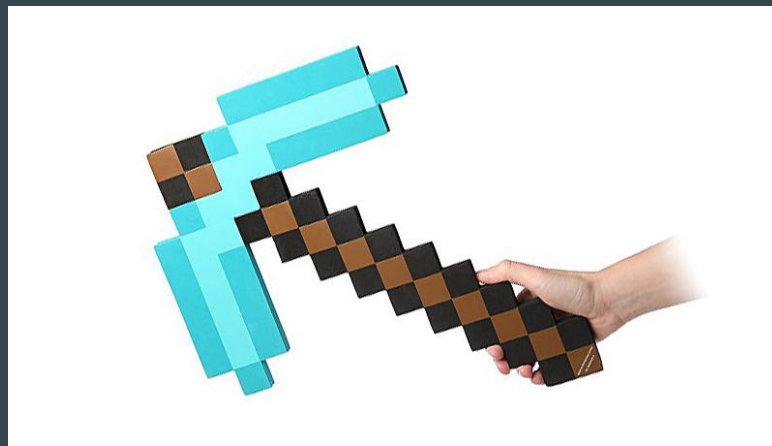


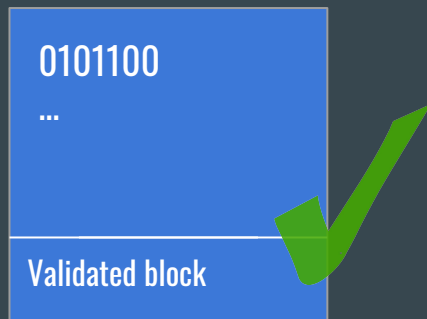




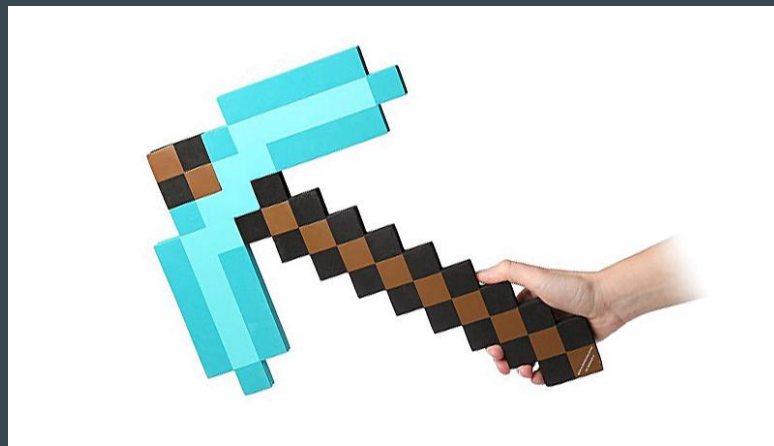


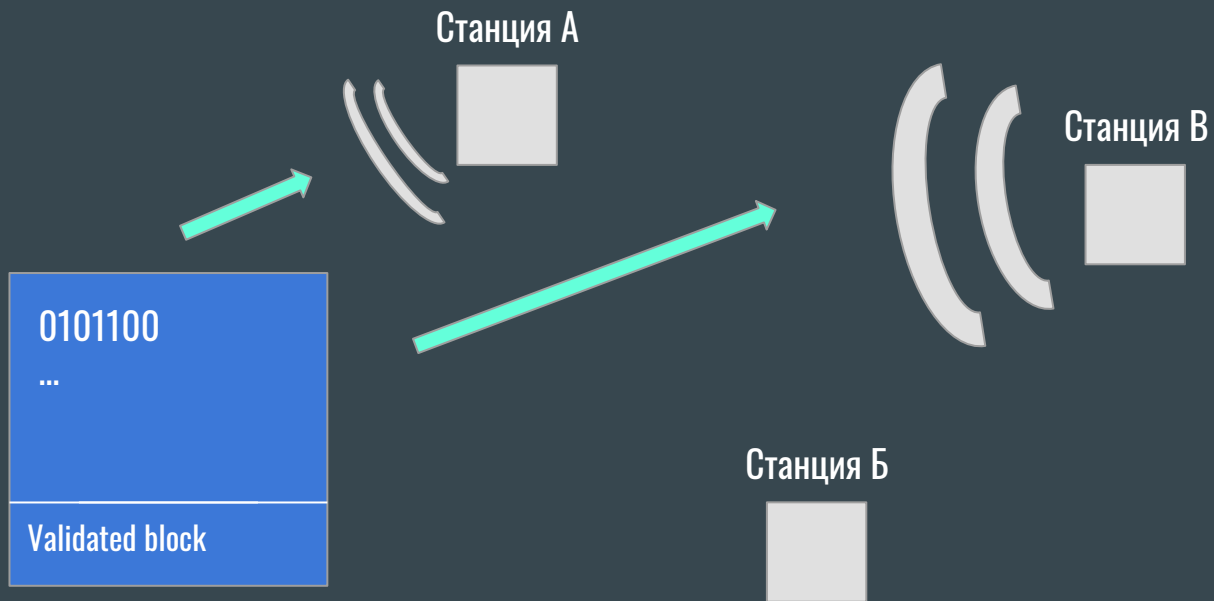
Станция Б

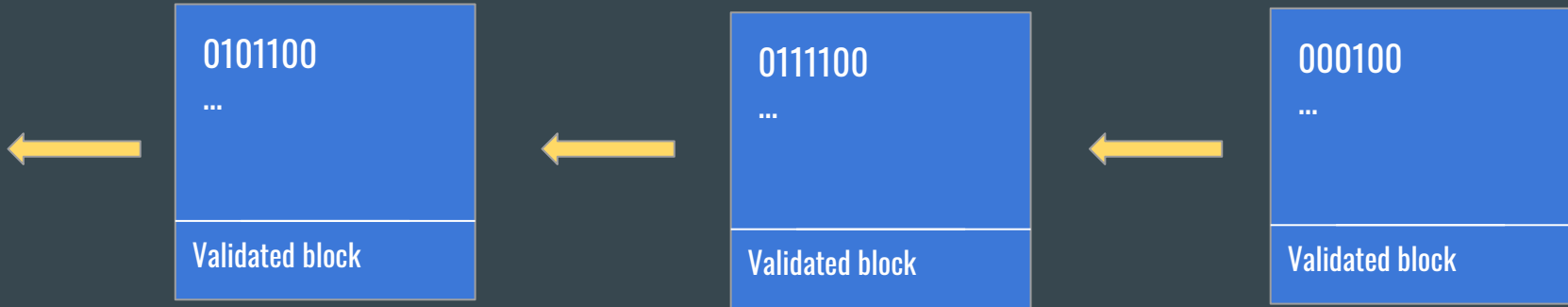




Станция Б









Във всяка станция

По Жицата у Вили



Стефан

Криптография



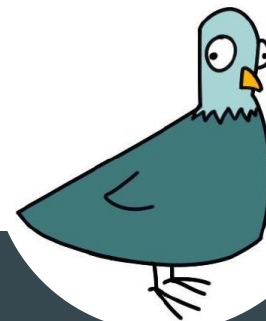
Камен

P2P мрежа



Хари

Станции за
гласуване



Крис

Структура на
blockchain

Благодаря за вниманието!

Въпроси?

Сигурност

- Sha512 + Digital signature
- TCP с допълнителни checksum-и
- Пълна прозрачност
- На живо генерирани checksum-и за кода качен на станцията
 - Може да се сравни с този от хранилището от всеки желаещ

Proof-of-stake algorithm

- Невалиден блок не се добавя във веригата
- Не изчислява всяка станция
- За валидиране се избират само ненатоварени станции
- Решението се споделя с останалите

Гласуване по веднъж

- Временен PIN
- KeyPair (Private-Public) per vote

⇒ Digital Signature per vote

- Без повторения
- Timestamp

Броене на гласове

- Всяка станция - всички гласове
- Всяка станция брои
- Сравнение
- Най-много еднакви отговори - верен отговор

Използвани алгоритми

- Хеширане (sha)
- Разширен алгоритъм на Евклид + идентичност на Безу
- Дигитален подпис (асиметрично криптиране)
- Blockchain + proof-of-stake

Благодарим на всички за вниманието

... и успех на всички участници.