SNAKES INTO SNAKE OIL

What Blockchains Are And Why They're Terrible



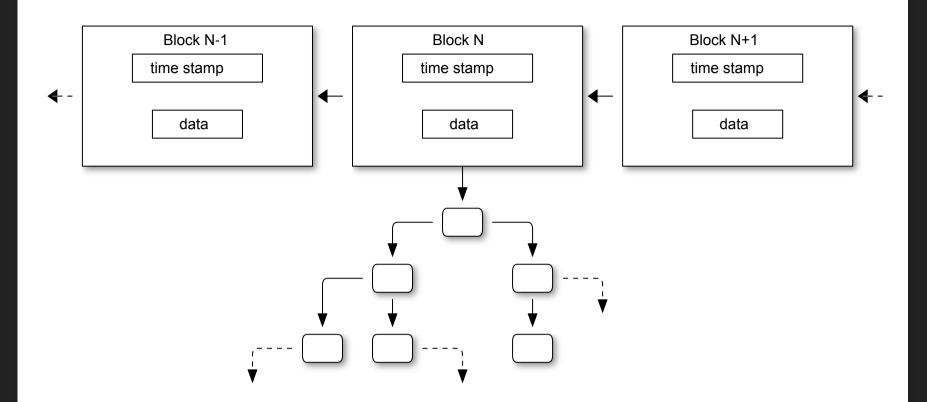
Jez Higgins

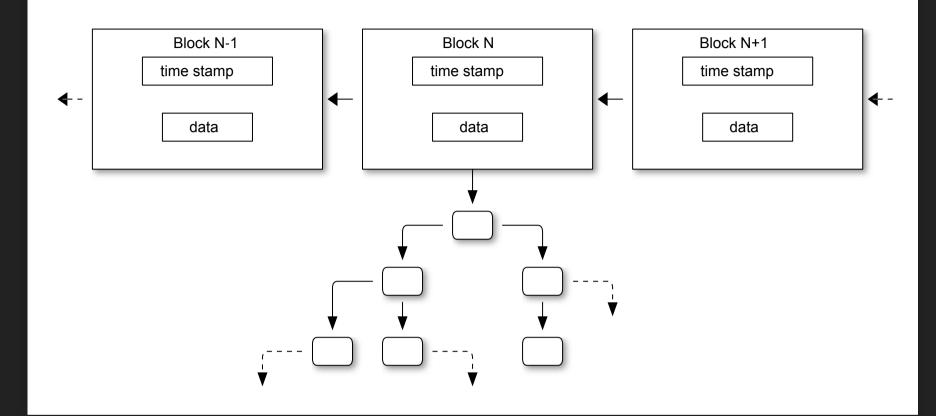
Did I want my name associated on the internet with the words Blockchain and Cryptocurrency?

• What Blockchains Are

- What Blockchains Are
- Why They're Terrible

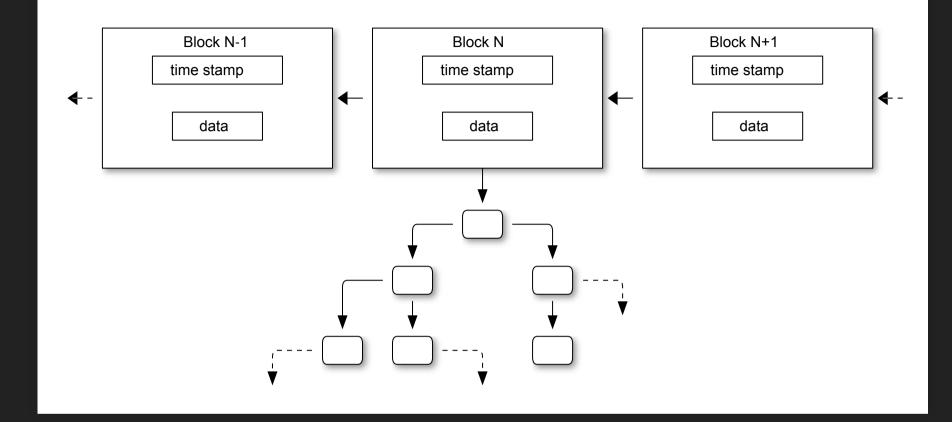
SNAKES INTO SNAKE OIL





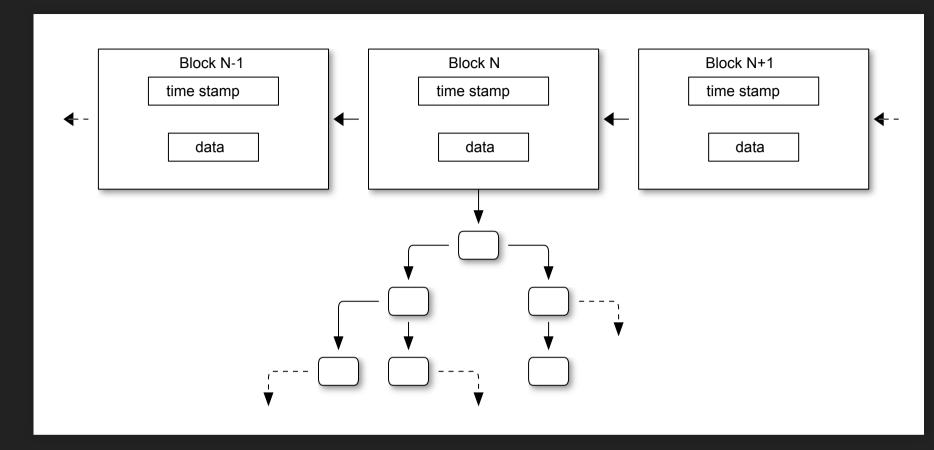
append only

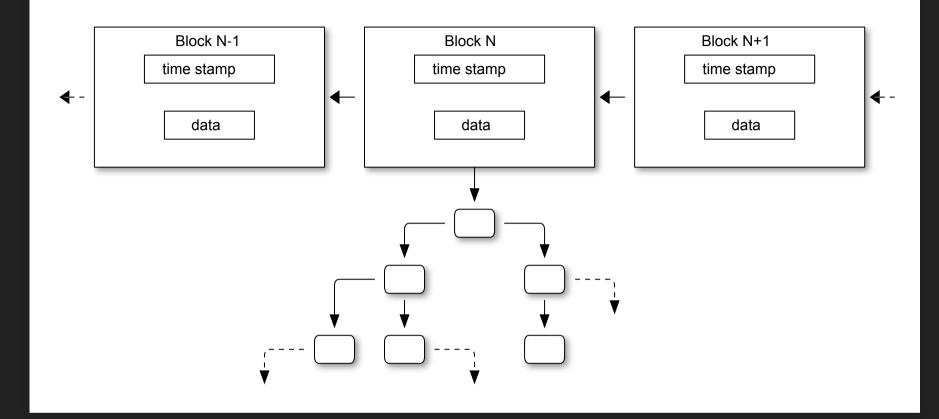
append only guarantees provenance



append only guarantees provenance

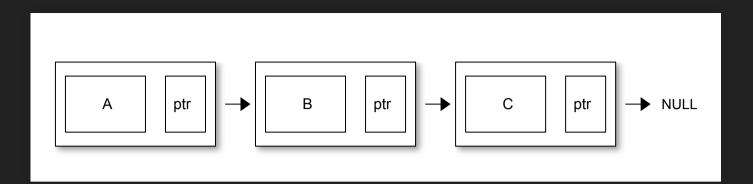
distributed database

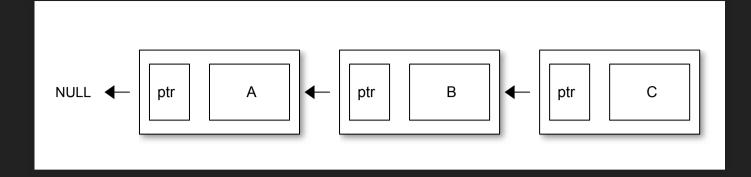


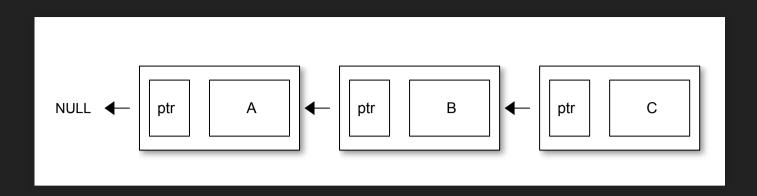


append only guarantees provenance distributed database no central authority

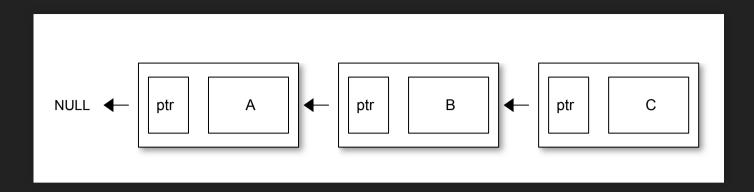
BUILDING A BLOCKCHAIN



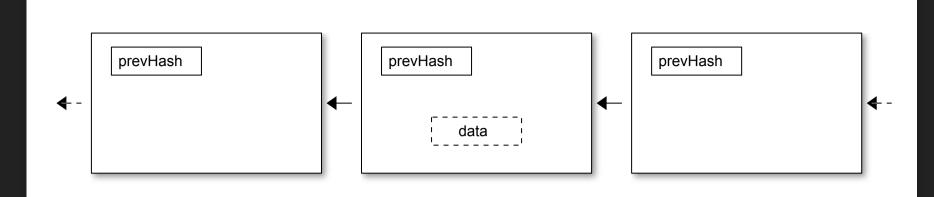


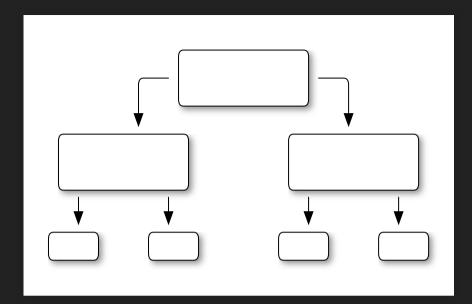


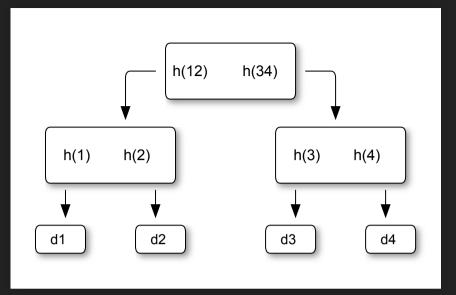
• the block before me is block 742

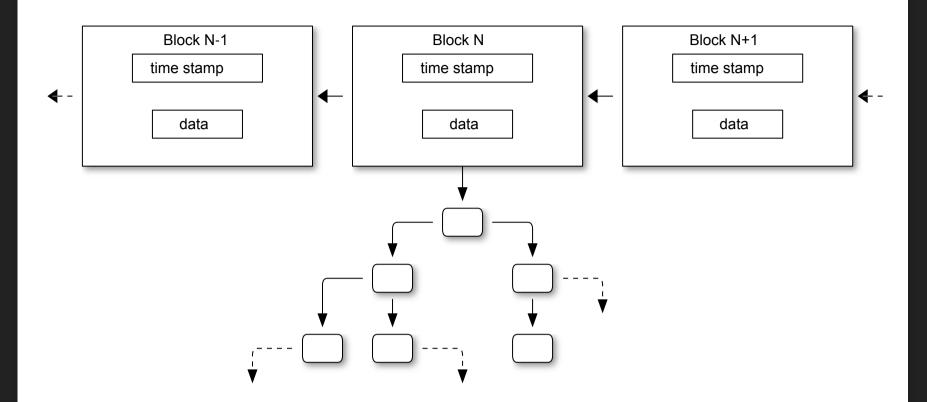


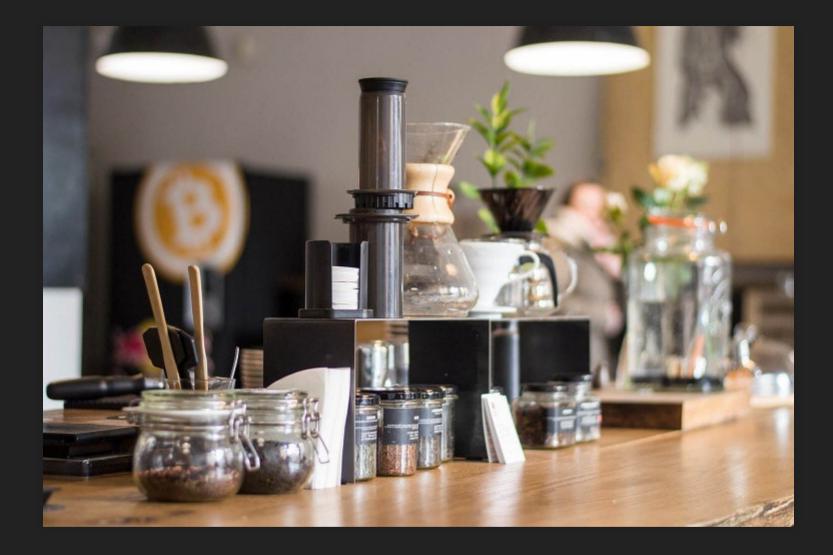
- the block before me is block 742
- and its hash is 0x371291a...

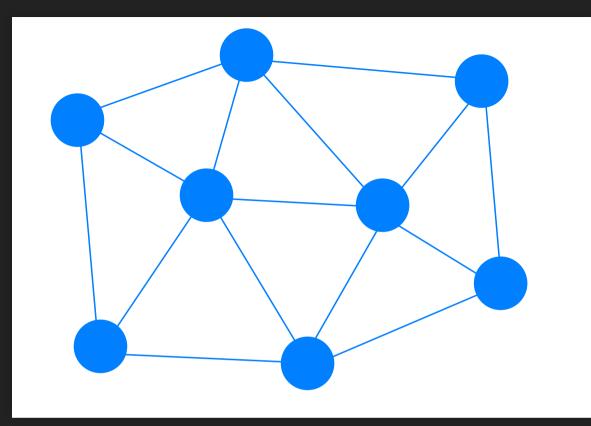


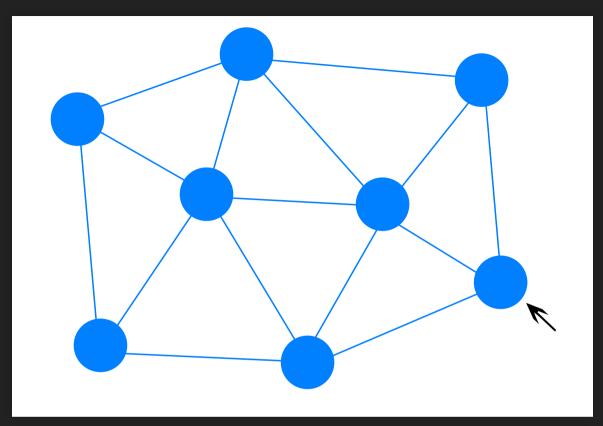


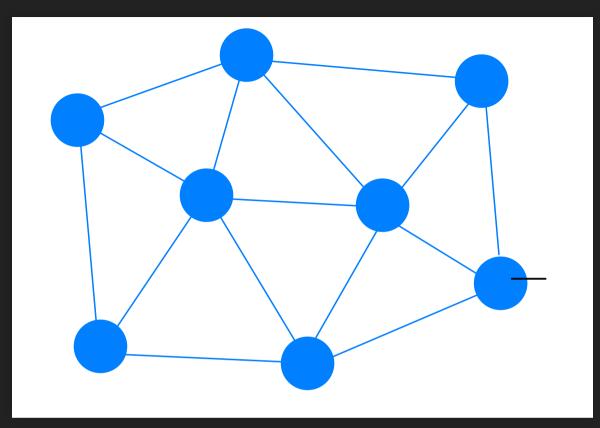


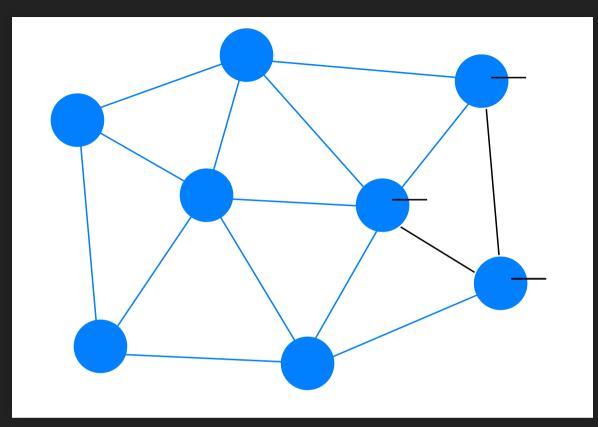


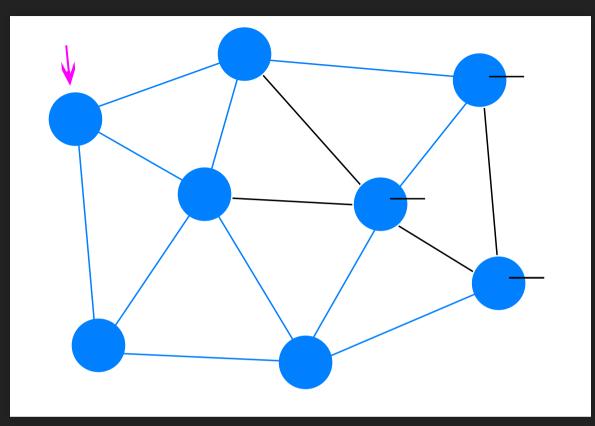


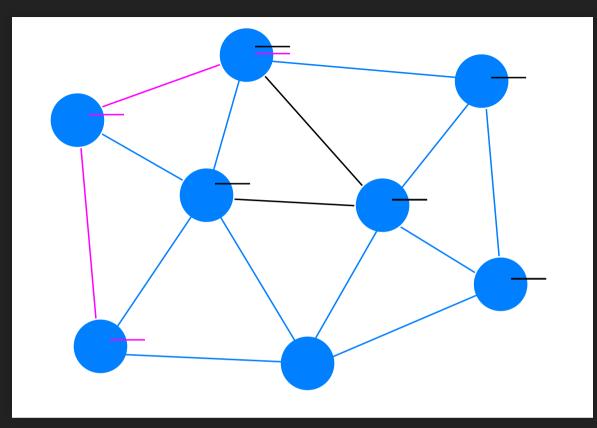


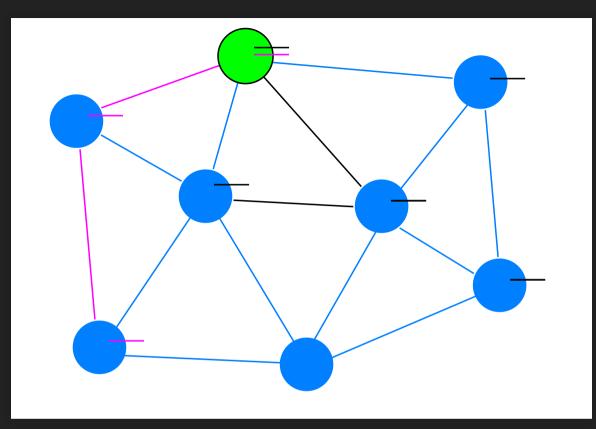


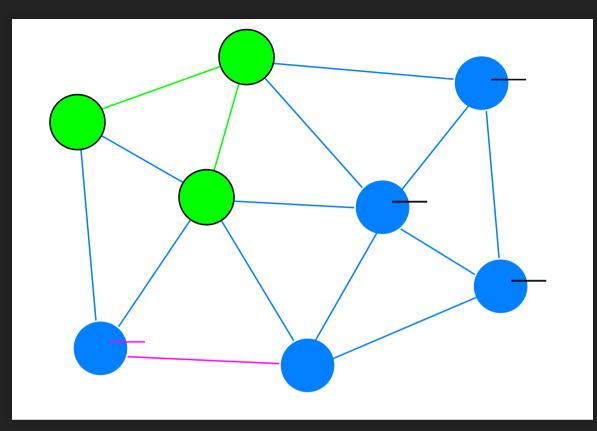


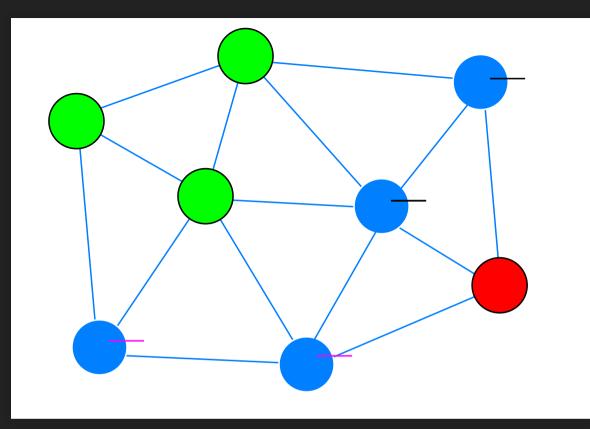


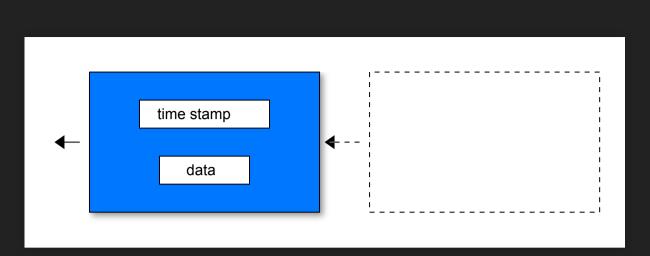






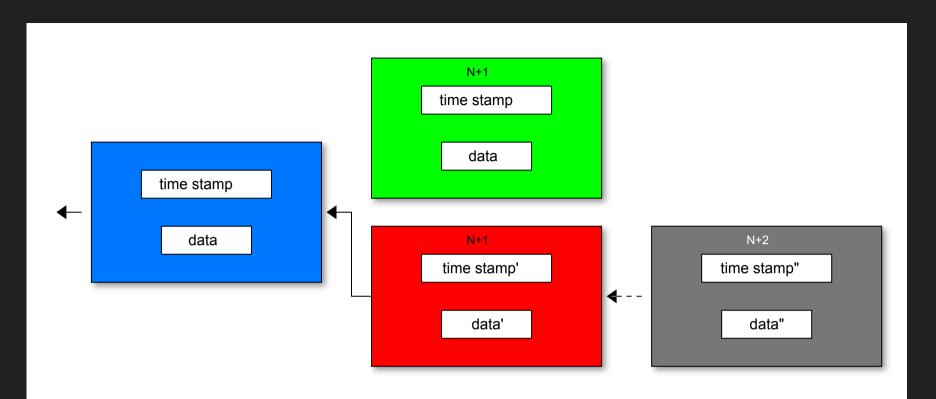


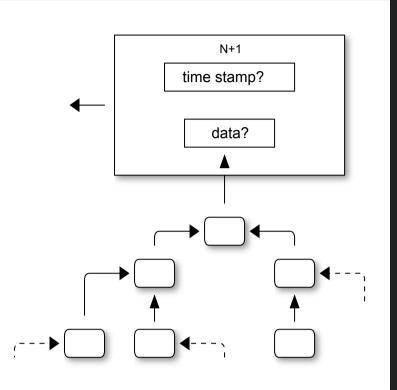


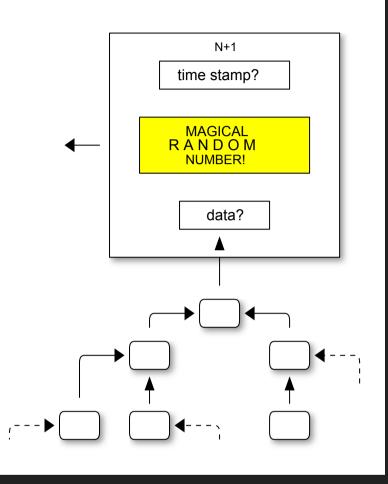


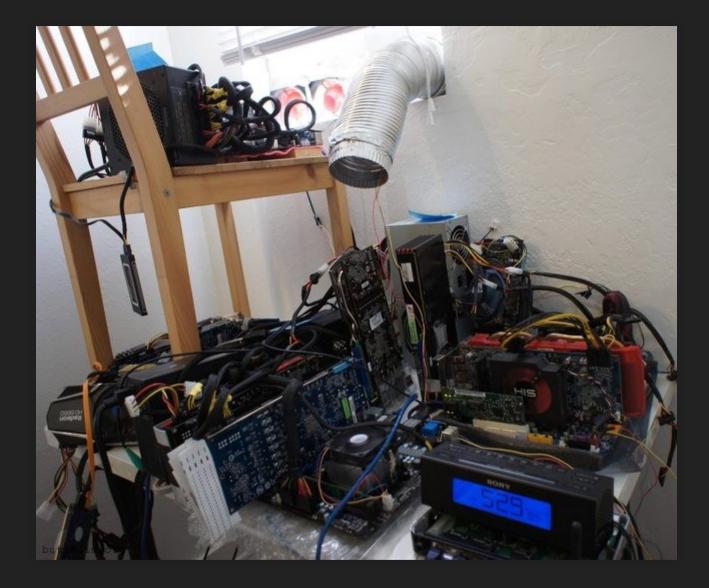
			N+1
	time stamp		time stamp
←		∢	
	data		data

			N+1
			time stamp
	time stamp		data
←	data	∢ -	N+1 time stamp'
			data'



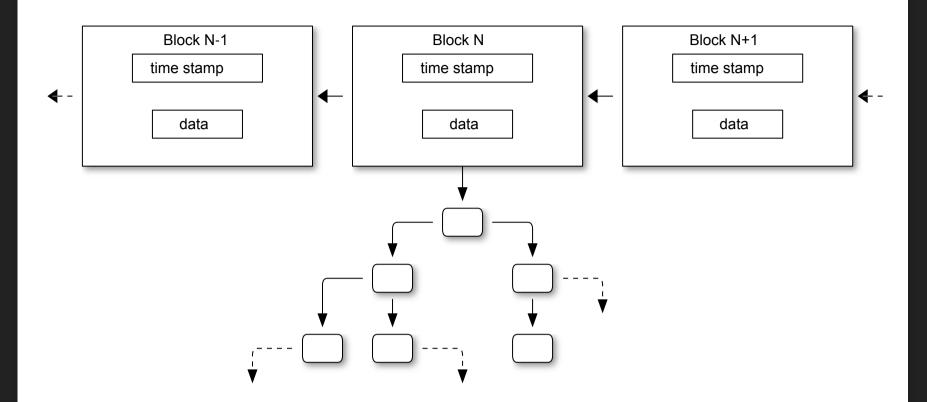






• The Block Reward

- The Block Reward
- Transaction Fees









Or create your own at http://build-a-co.in/

• Proof-of-work

- Proof-of-work
- Proof-of-stake

- Proof-of-work
- Proof-of-stake
- Proof-of-authority

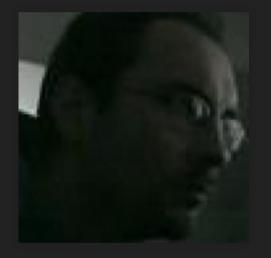
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   "n": 0,
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}, {
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  },
  "scriptSig": "3f3a4...",
}],
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  "scriptPubKey": "OP DUP OP HASH160 69e02...
      OP EQUALVERIFY OP CHECKSIG"
```

}]

THAT'S WHAT BLOCKCHAINS ARE

SNAKES INTO SNAKE OIL

What Blockchains Are And Why They're Terrible



Jez Higgins

... continues after these messages...

What is Bitcoin? (v2)



https://www.youtube.com/watch?v=Gc2en3nHxA4

Ethereum: the World Computer



https://www.youtube.com/watch?v=j23HnORQXvs

SNAKES INTO SNAKE OIL

What Blockchains Are And Why They're Terrible



Jez Higgins

WHY THEY'RE TERRIBLE





BITFINEX





★ > Technology Intelligence

Bitcoin owners told to transfer savings out of Bitpay wallets after private keys stolen

popular cryptocurrency exchange has warned customers that their Bitcoin could be stolen after hackers managed to create a backdoor in the service.

Bitpay said that customers using earlier versions of the app should "assume" that an attacker had stolen the private keys needed to access their cryptocurrency.

The attacker - or attackers - are understood to have infected a code library used by the service several weeks ago and have been quietly siphoning the keys unbeknown to the owners.

James Howells searches for hard drive with £4m-worth of bitcoins stored

③ 28 November 2013

🔗 😏 🗹 < Share

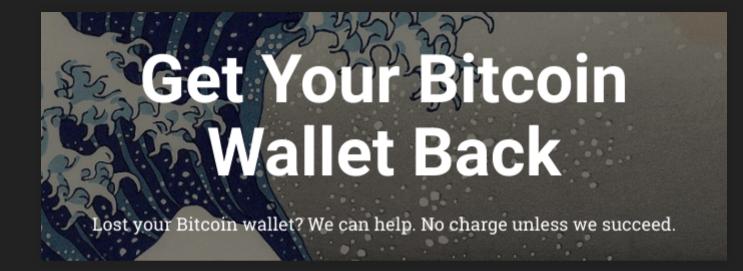


James Howells: "When I went up to the landfill site yesterday my first thought was 'I've got no chance"

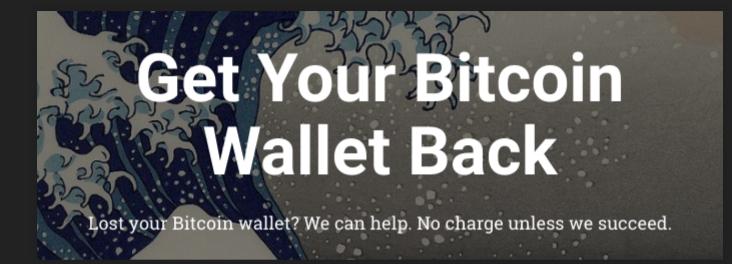


Get Your Bitcoin Wallet Back

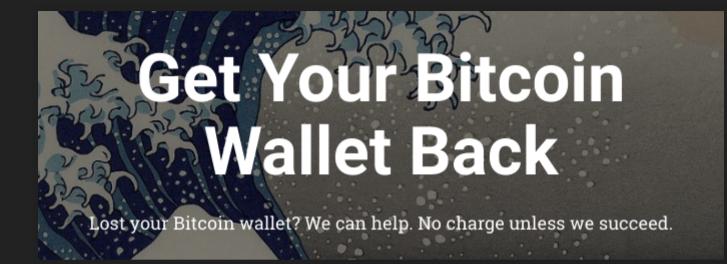
Lost your Bitcoin wallet? We can help. No charge unless we succeed.



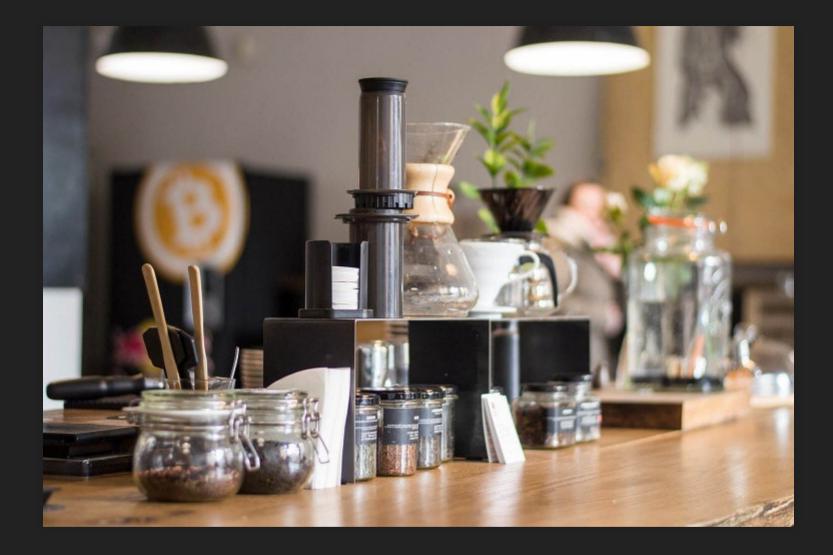
... typed his recovery words into Notepad to print them out, and promptly had his Bitcoin stolen due to a keylogger ...



... printed out his seed words but was missing several due to incorrectly set page margins ...



A customer stored his recovery word card in his jeans. The card was destroyed when the jeans had been laundered, which he only discovered months later when updating his wallet firmware.



Accepting Bitcoin as a Small Business – 4 Years In

Posted on February 27, 2019 by Jeff Seymour

Should You Accept Bitcoin at Your Small Business?

As self-confessed Bitcoin enthusiasts here at <u>Seymour Locksmiths</u> we value the importance of decentralised ledger technologies. They have the power to change a lot of things, from financial transactions to unlocking your front door (yep, Bitcoin-powered smart locks are a thing).

In 2014 a large school of thought suggested that the main breakthrough use case for Bitcoin would be peer to peer transactions. That being customers and businesses paying for goods and services directly between one another without having to rely on payment networks such as Visa.

We decided to put this theory to the test. In September 2014 we officially started accepting Bitcoin for our <u>locksmith services in Worthing</u>, shortly after we also starting accepting Dash and expanded acceptance to our entire service area. Since that point over four years ago and the time of writing, we have not had one customer ask to pay in Bitcoin, Dash or any other cryptocurrency.

Since that point over four years ago and at the time of writing, we have not had one customer ask to pay in BitCoin, Dash or any other cryptocurrency. While none of our customers has actually paid a locksmithing invoice with Bitcoin we have had lots of interested people wanting to discuss the subject in depth. Over the years we have noticed a steady uptick in customer awareness of Bitcoin with a huge surge during the bull run and news cycle during mid to late 2017.

While none of our customers has actually paid a locksmithing invoice with Bitcoin we have had lots of interested people wanting to discuss the subject in depth.



APITA

Rex

WANTS TO DIG UP LANDFILL SITE

Lawson I Lawson Han frame Nie



New Report Warns 87 Percent of Cryptocurrency Exchange Volume Is Potentially Suspicious

Almost 90 percent of cryptocurrency exchanges' reported trade volumes may be incorrect, new research from trading analytics platform The Tie warned in a digest released on March 18.

Reporting on figures gathered from 97 exchanges, researchers found that the vast majority of the volume claimed to come from users may not in fact exist.

"In total we estimated that 87% of exchanges reported trading volume was potentially suspicious and that 75% of exchanges had some form of suspicious activity occurring on them," The Tie wrote in social media comments on the findings. The organization added:

"If each exchange averaged the volume per visit of CoinbasePro, Gemini, Poloniex, Binance, and Kraken, we would expect the real trading volume among the largest 100 exchanges to equal \$2.1 (billion) per day. Currently that number is being reported as \$15.9 (billion)."

Bitcoin Price Goes 20% Up as a Result of Massive Order by Mystery Investor

April 5, 2019



84

趟

James Howells @howelzy · Mar 29 Newsflash:

The BTC transaction stream is currently blocked.

'Blockstream Inc' denies any involvement.



James Howells @howelzy · Mar 29 Imagine having to pay extortionate transaction fees and still have to wait hours for 1 confirmation.

#BTCProblems





Dogecoin rulz

drags cigarette Doge? I haven't heard that name in years.

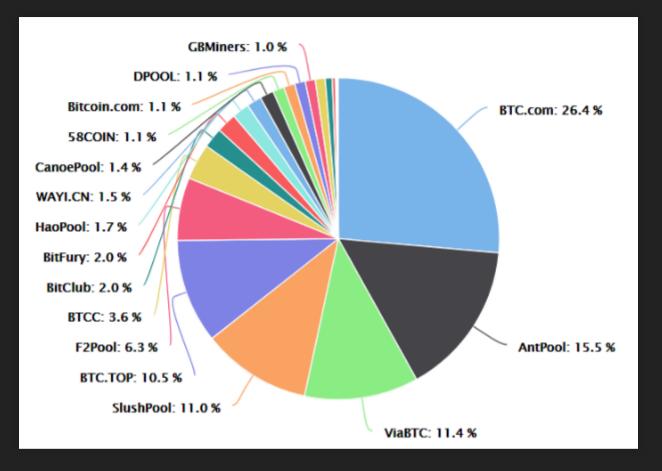


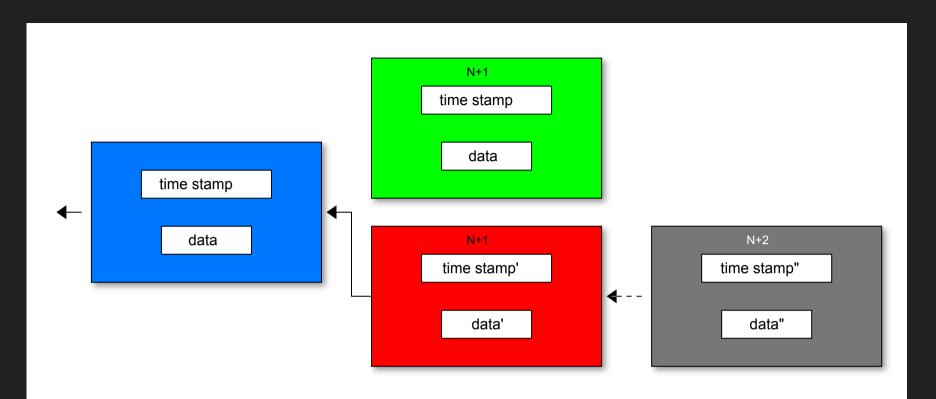
9:16 PM - 2 Apr 2019

Dogecoin [DOGE] Skyrockets Overnight with Tesla's Elon Musk Hints His Favorite Coin

🔒 Tabassum 🕜 April 3, 2019 🗁 Altcoin News









We can confirm that there was a successful 51% attack on the Ethereum Classic (#ETC) network with multiple 100+ block reorganization. We recommend all services to closely monitored the chain and significantly increase required confirmations.

5:33 PM - 7 Jan 2019



NiceHash does not support 51% attacks and we believe such deliberate and harmful actions should be taken very seriously.

NiceHash does not support 51% attacks and we believe such deliberate and harmful actions should be taken very seriously.

NiceHash is giving everyone with smaller and less secure blockchain projects the option to make them more secure by leasing hash power. If you think your network is under attack , you can mitigate such attacks and further secure the network by using NiceHash! If you want to keep your PoW-based blockchain safe, we highly recommend you periodically lease hash power through NiceHash hash power marketplace. Such activity will always result in making your blockchain more secure.

They are ...

• ... difficult to get hold of

- ... difficult to get hold of
- ... difficult to keep hold of

- ... difficult to get hold of
- ... difficult to keep hold of
- ... even more difficult to spend

- ... difficult to get hold of
- ... difficult to keep hold of
- ... even more difficult to spend
- ... probably going to get lost or stolen or just fade away or jam up

Applications on built on Ethereum run exactly as programmed.



Parity Technologies Powering the decentralised web July 21, 2017 in <u>Security</u>

Severity: Critical

Product affected: Parity Wallet

Affected implementations: Parity 1.5 or later

Summary: A vulnerability in Parity Wallet's variant of the standard multi-sig contract has been found.

Affected users: Any user with assets in a multi-sig wallet created in Parity Wallet prior to 19/07/17 23:14:56 CEST.



Parity Technologies Powering the decentralised web November 08, 2017 in <u>Security</u>

Severity: Critical

Product affected: Parity Wallet (multi-sig wallets)

Summary: A vulnerability in the Parity Wallet library contract of the standard multi-sig contract has been found.

Affected users: Users with assets in a multi-sig wallet created in Parity Wallet that was deployed after 20th July.



Which party will control the House after the 2018 U.S. Midterm Election?

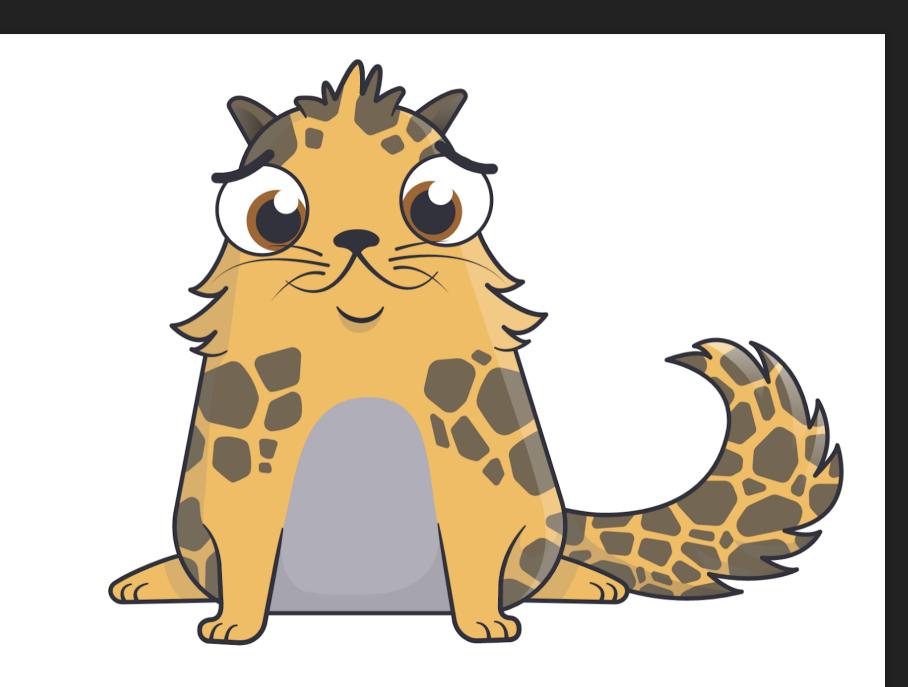
Which party will control the House after the 2018 U.S. Midterm Election?

Which party will control the House after 2018 U.S. Midterm Election?

Market ID: 0xbbbc0a8baa03535e0a680ee2f057162aaaafd570, CATEGORICAL, Predictions.Global, Reporters.Chat

Outcome	Dispute rounds								
Democrats	0	1	2	3	4	5	6	7	8
Republicans	0	1	2	3	4	5	6	7	8
Tied	0	1	2	3	4	5	6	7	8
INVALID	0	1	2	3	4	5	6	7	8

Without any possibility of downtime ... or third-party interference





blockchain will revolutionize

blockchain will revolutionize **the world** blockchain will revolutionize why blockchain will revolutionize **the banking industry** how blockchain will revolutionize **finance and auditing** how blockchain will revolutionize **invoice-backed financing** how blockchain will revolutionize **banking** how blockchain will revolutionize **the pharmaceutical industry** can blockchain revolutionize **international trade** can blockchain revolutionize **the supply chain**

Google Search

I'm Feeling Lucky

Report inappropriate predictions



PIL is already collaborating with IBM on the Tradelens platform

PIL AND IBM COLLABORATE ON BLOCKCHAIN BILL OF LADING PROJECT

Pacific International Lines (PIL) has used an electronic Bill of Lading (e-BL) built on the IBM Blockchain Platform in a real-time pilot tracking shipment of mandarin oranges from China for the Lunar New Year celebrations. With the use of IBM Blockchain powered e-BL, the trial has produced a significant reduction in the administrative process of transferring the title deed from five to seven days to just one second, claimed the parties.



VERISART \blacksquare

CERTIFICATE OF AUTHENTICITY

2018-06-11 16:07:40 CONFIRMED This work is certified and verified on a decentralized public ledger. The digital provenance data and related cryptographic commitments herein are irrevocably sealed and permanently verifiable on the bitcoin blockchain at 000000000000000000182e1566d079013885bdc020772df09bd4c2329

TERENCE EDEN



Title	MONA LISA / LA GIOCONDA				
Production Date	1506				
Medium	OIL ON POPLAR PANEL				
Dimensions (H x W)	77 X 53 CM				
Current Owner	022F311C0224B56B195CE2843E2D19FBD4F 5D8951F810CF78DCA5FFD8484F7AF1F				
URL	https://www.verisart.com/works/23f2c64a-				



08c6-4a42-8013-84ac8422dffb

Blockcha Address 000000000000000001a182e1566d0790138 85bdc020772df09bd4c232933dc8



VERIFIED BY VERISART

Lowland distillery Ailsa Bay has released a travel retail exclusive whisky featuring blockchain technology to 'ensure authenticity and allow traceability'.



Transparent traceability: Ailsa Bay's travel retail exclusive uses blockchain data to log its journey

Blockchain in HR: 8 Ways Blockchain will Impact the HR Function ...

https://blog.cake.hr/blockchain-in-hr-8-ways-blockchain-will-impact-the-hr-function/ -

28 Oct 2018 - The demand for **blockchain** in **HR** is growing and we are here to tell you why. Check out the following 8 ways **blockchain** will impact the **Human** ...

Five ways blockchain could change the face of HR - Personnel Today https://www.personneltoday.com/hr/blockchain-hr/ -

19 Mar 2018 - Sam Fletcher of global executive leadership advisory firm 6 Group takes a look at how **blockchain** could transform the daily work of the **HR** ...

How Blockchain Will Change HR Forever - Forbes

https://www.forbes.com/sites/ashikahmed/.../how-blockchain-will-change-hr-forever/ ▼

14 Mar 2018 - This is the reason that banks are working to stay abreast of **blockchain**—and also why it could completely disrupt the way **HR** professionals ...

Blockchain In Human Resources: 8 Possible Use Cases - Disruptor ...

https://www.disruptordaily.com/blockchain-use-cases-human-resources/ ▼

24 Oct 2018 - Given enough time, **blockchain** will leave its fingerprints all over **HR** departments, from automating payroll to assisting in employee vetting.

How Blockchain Technology Can Impact HR | Sage People https://www.sagepeople.com/about-us/.../how-blockchain-technology-can-impact-hr/ ▼

30 Nov 2018 - With **blockchain** technology, **HR** teams could have comprehensive data at their fingertips, and quickly assess whether it's worth interviewing the ...

Emergent Tech

Blockchain study finds 0.00% success rate and vendors don't call back when asked for evidence

Where is your distributed ledger technology now?

AND THAT'S WHY THEY'RE TERRIBLE

A GLIMMER OF HOPE

The ARCHANGEL project proposes to delivery **long-term sustainability of digital archives** through **new technologies** that will ensure both the **accessibility to and integrity of digial archives**



CHRIS HEATON-HARRIS MP



HOUSE OF COMMONS

LONDON SW1A 0AA

The Rt. Hon Theresa May MP The Prime Minister 10 Downing Street London, SW1A 2AA

3rd April 2019

Prime Minister,

It has been an honour to serve in your Government as a Whip and more recently as Parliamentary Under-Secretary at the Department for Exiting the European Union and I thank you for giving me the chance to serve my country in these roles.

In my current job, I've had the responsibility of helping to coordinate our preparations for if we were to leave the European Union without a negotiated deal. As I believe you know, these preparations are well advanced and whilst I would have preferred to leave the European Union with your deal, I truly believe our country would have swiftly overcome any immediate issues of leaving without a deal and gone on to thrive.

It has been a privilege to work with some quite brilliant civil servants in my Department and across your Government. They have moved mountains to prepare our country for leaving the European Union without a negotiated deal. Unfortunately, I do not believe the briefings you have received on these matters recently have reflected all they have achieved or the preparations our European partners have made.

However, I completely understand you do not want to leave the European Union without a negotiated deal and that obviously makes my job in Government irrelevant.

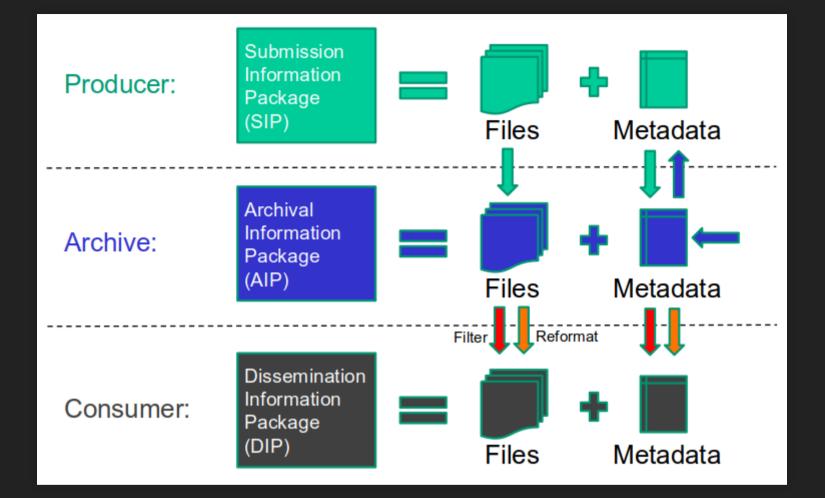
I have constantly voted in Parliament for us to leave the European Union on March 29th, 2019. I truly believe we should have honoured the result of the 2016 Referendum and left on that date. Indeed every time we seek an extension to this process we diminish faith in our political system and the good people, from all political parties, who serve within it. I simply cannot support any further extension to Article 50 and this obviously means I cannot stay in government.

I certainly appreciated the opportunity to serve as a Minister in your Government, but being a backbencher is truly the best job in politics and I now intend to continue to represent and serve my constituents in Daventry to the best of my ability from a seat further back in the House.

Yours sincerely,

CHRIS HEATON-HARRIS MP MEMBER OF PARLIAMENT FOR DAVENTRY

Tel: 020 7219 7048 Fax: 020 7219 1375 Email: chris.heatonharris.mp@parliament.uk Website: www.heatonharris.com



THANKS

Jez Higgins @jezhiggins



jez uk limited

software created extended or repaired

www.jezuk.co.uk