THE BILLION DOLLAR SEARCH FOR THE MAN WITH THE GOLDEN KEY

WHO IS SATOSHI NAKAMOTO - THE MYSTERIOUS CREATOR OF BITCOIN ?

Aaron Swartz Abida Khattak Adam Back Adam Shostack Adam Young Adi Shamir Adrian Perrig Alain Mayer Alan Sherman Albert Levi Albrecht Beutelspacher Alessandro Acquisti Alessandro Piva Alex Biryuk Alfred Menezes Alfredo De Santis Ali Selcuk Alice Silverberg Alireza Bahreman Amir Herzberg Amir Taaki Amos Fiat Amr Youssef Andreas Antonopoulos Andreas Schildbach Andrew Gordon Andrew Odlyzko Andrew Roos Andy Clark Andy Klapper Angelos Keromytis Anne Canteaut Antoine Joux Anton Stiglic Antonio Lioy Antoon Bosselaers Ari Juels Aris Zakinthinos Arjen Lenstra Art Forz Arthur Chandler Ashish Gulhati Ashley Barr Atsuko Miyaji Atul Prakash Avi Rubin Barry Downey Barry Silbert BCNext Ben Laurie Ben Lynn Ben Reeves Bennet Yee Benny Chor Berry Schoenmakers Bill Cheswick Bill Stewart Bill Wulf Birgit Pfitzmann Bob Jenkins Bram Cohen Brian Gladman Brian LaMacchia Bruce Christianson Bruce Schneier Bruno Crispo Butler Lampson C-H Chang C-H Lim Carl Ellison Carlo Blundo Carlo Harpes Carol Shaw Catherine Meadows Charalampos Manifavas Charles Bry Charles Rackoff Charles/Charlie Lee Charlie Shrem Chris Mitchell Christian Cachin Christof Paar Clark Thomborson Claude Crépeau Claus-Peter Schnorr Cliff Stoll Clifford Neuman Colin Boyd Con Kolivas Craig Wright Crispin Cowan Curtis D. 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Cheng Lance Cottrell Lance Hoffman Lars Knudsen Laszlo Hanyecz Laurie Law Lawrence Paulson Lawrie Brown Leendert van Doorn Leonard Adleman Leslie Lamport Lewis McCarthy Li Gong Lorrie Cranor Luca Trevisan Luke Dashjr Luke O'Connor Lyta Penna Madhu Sudan Manuel Blum Marc Fischlin Marc Joye Marco Mezzalama Marcus J. Ranum Marianne Mueller Mark Goresky Mark Karpeles Mark Lomas Markku-Juhani Saarinen Markus Jakobsson Markus Kuhn Markus Stadler Martin Abadi Martin Hellman Martti Malmi Masatoshi Kumagai Mats Näslund Matt Bishop Matt Blaze Matt Corallo Matt Franklin Matt Robshaw Matthew B. Landry Matthew Franklin Matthew Gaylor Matthias Schunter Max More Mayank Sahu Meni Rosenfeld Michael Clear Michael Froomkin Michael Hendrix Michael Marquardt Michael Peirce Michael Roe Michael Steiner Michael Waidner Michael Weber Michel Bauwens Mihir Bellare Mike Burmester Mike Hearn Mike Ingle Mike Just Mike Luby Mike Neuman Mike Reiter Mithrandir Moni Naor Moti Yung N. Asokan Naval Ravikant Neal J. King Neil Daswani Neil Johnson Nicholas Bohm Nick Collision Nick Lambert Nick Szabo Nicolas Courtois Niels Ferguson Niels Ferguson Niels Provos Nikita Borisov Nikolay Rozhok Nils Schneider Norm Hardy Oded Goldreich Oleg Kolesnikov Omer Reingold Orr Dunkelman Paolo Soto Pat Farrell Patri Friedman Patrick Byrne Patrick Meier Patrick P. Tsang Patrick Strateman Paul Fahn Paul Ferguson Paul Kocher Paul Syverson Paul Van Oorschot Paul Vernon Perry E. Metzger Peter Bachman Peter Gemmell Peter Gutmann Peter Honeyman Peter Landrock Peter Todd Peter Wayner Peter Wuille Phil Karn Phil Rogaway Phil Zimmerman Philippe Béguin Philippe Janson Pil-Joong Lee R. Sekar Radu Sion Rafail Ostrovsky Ralph Merkle Ran Canetti Raph Levien Ravi Sandhu Ray Dillinger Rebecca Wright Rene Peralta Reynald Lercier Ricardo Dahab Riccardo Focardi Rich Schroeppel Richard Mollin Richard Pinch Robert A. 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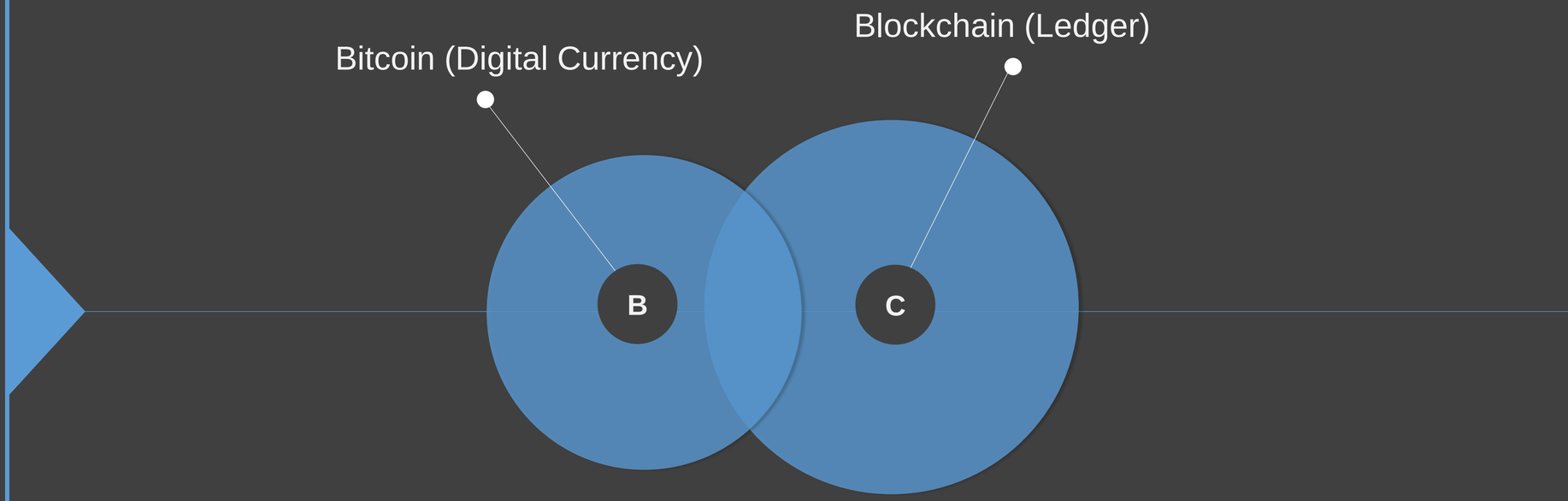
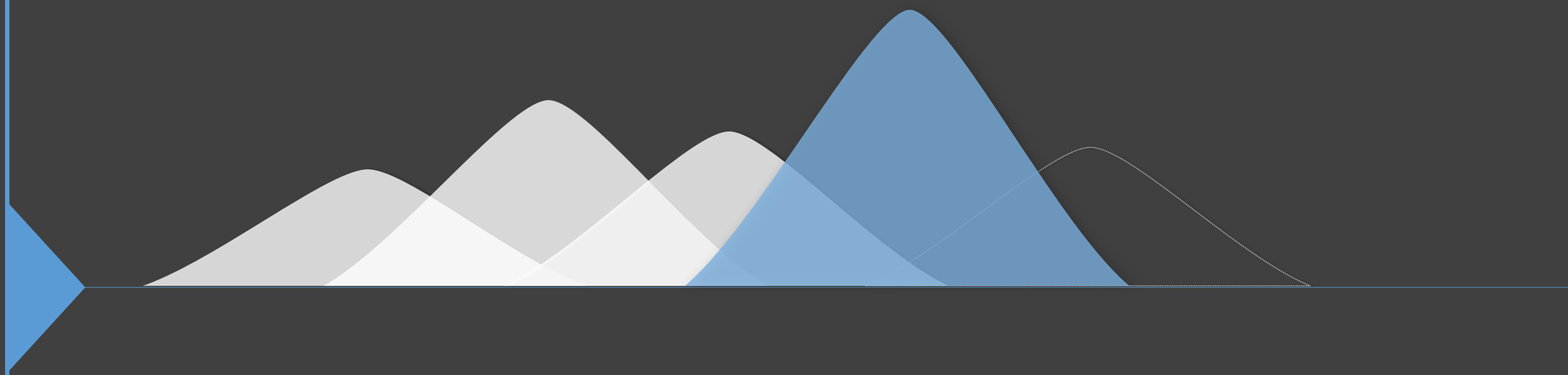
Satoshi Nakamoto launched Bitcoin in 2009. It was the worlds first working de-centralised digital currency.



Satoshi Nakamoto became one of the richest person in the world. Yet no one knows his real identity. *



2008 Net Worth

$00.00

2017 Net Worth

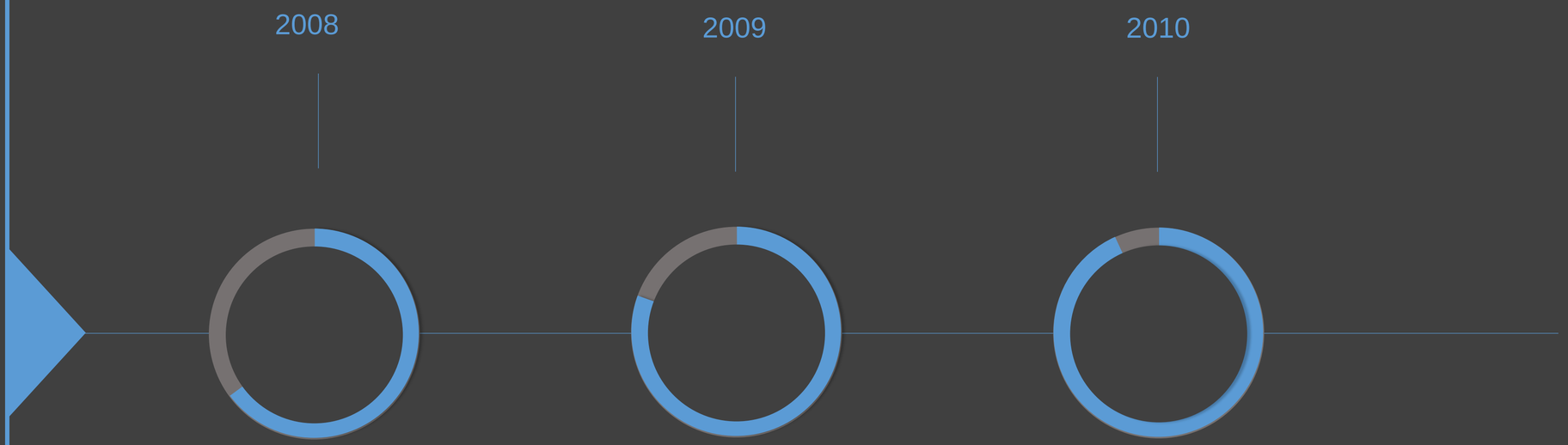
$19.40 billion

Based on estimated 980,000 coins.

* This document will refer to Satoshi Nakamoto as a single person (not a collective or group). Read the full document to find out why.

Bitcoin Timeline
Standard

The common published timeline in the general media highlights a few key dates and implies that Satoshi left the project complete with millions. Satoshi left the project unexpectedly with development in-flight and his estimated coins worth a maximum of $215,600 (small change for 3.5+ years of work).



31 Oct – Whitepaper published

3 Jan – Genesis block mined

9 Jan – Bitcoin v0.1 released

12 Dec – Last post on Bitcointalk forum

13 Dec – Last login on Bitcointalk forum

→→ **Satoshi Nakamoto disappears.**

2010 Bitcoin Worth

$215,600

Based on price of 980,000 coins x $0.22

What Happened to Satoshi Nakamoto

In December 2010, Wikileaks was the US governments public enemy number one. Traditional avenues for finance had been blocked by multinational companies under government pressure. Then rumours started that Wikileaks could raise funds via Bitcoin.

Satoshi was against the idea and one of his final posts stated "It would have been nice to get this attention in any other context. WikiLeaks has kicked the hornet's nest, and the swarm is headed towards us.".
https://bitcointalk.org/index.php?topic=2216.msg29280#msg29280

Satoshi disappeared from the forums after a few days and then from the project all-together.

Unplanned Exit?

Satoshi had been developing Bitcoin since 2007. Early adoption was taking off in 2010 with multiple version updates. Satoshi openly stated there was still lots to do. And then suddenly…

Satoshi Disappears

Last forum login 13 December 2010.
Last known email 23 April 2011.
https://bitcointalk.org/index.php?topic=2080206.0

Bitcoin Phase 1

CIA

WIKILEAKS

OTHER

Bitcoin Unknown

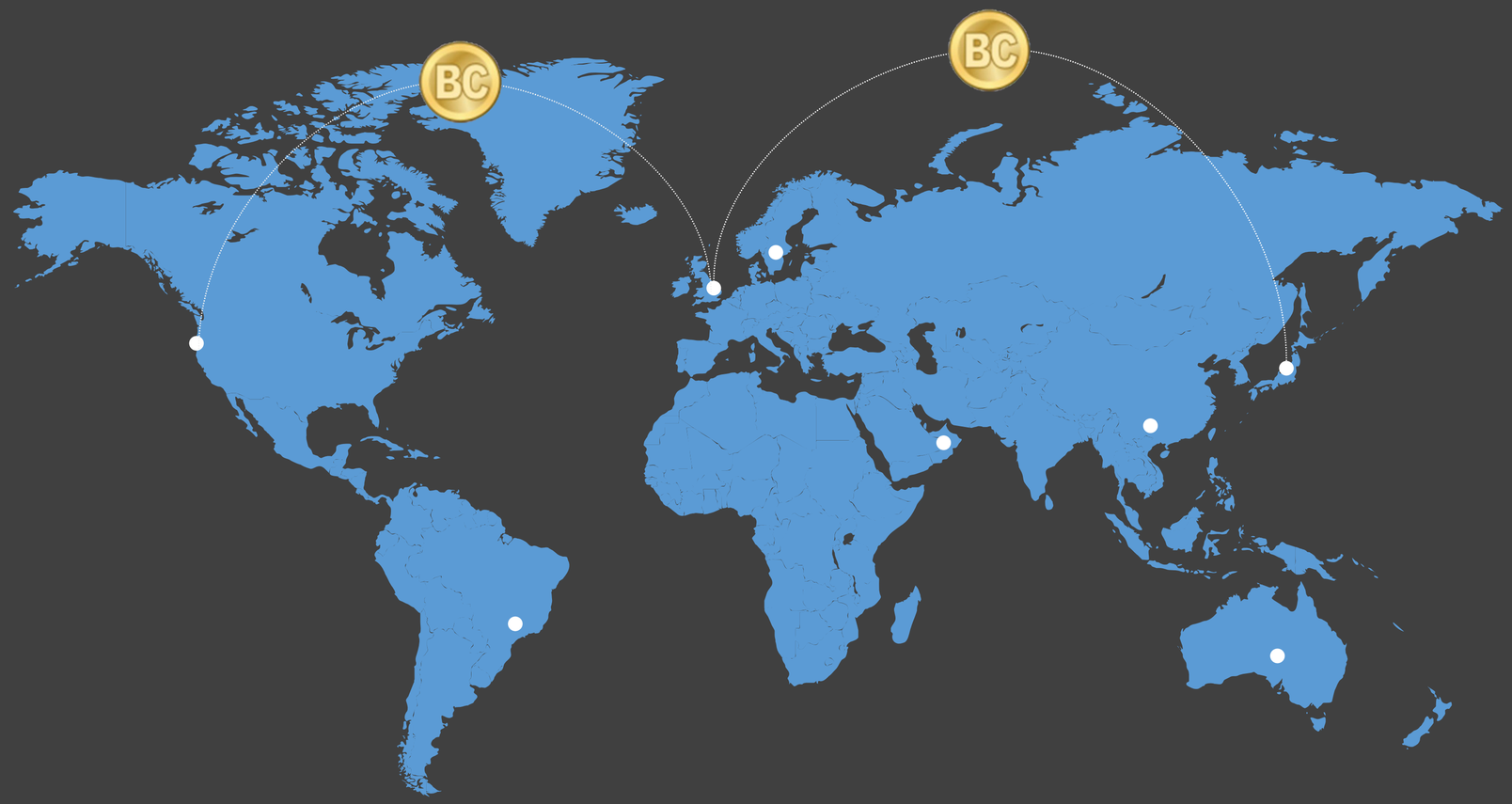
Lost Roadmap?

What ideas and development did Satoshi have planned for Bitcoin? What happened to the unreleased code available to Satoshi only? And most importantly why did Satoshi leave?

What Happened to Bitcoin after Satoshi Nakamoto Left?

Bitcoin continued to be developed by the open source community. The value of each coin increased rapidly reaching a peak of $19,800 on 2017. Even at 2019 prices, a gain of over one million percent has been achieved in less than a decade.

The Bitcoin protocol and underlying Blockchain technology have expanded across multiple sectors and continue towards mainstream adoption.



Original Bitcoin Logo

Designed by Satoshi Nakamoto

SATOSHI SPENT YEARS DEVELOPING BITCOIN

HE LEFT THE PROJECT AT A CRITICAL EARLY STAGE

HE DID NOT CASH OUT AFTER BECOMING BILLIONAIRE

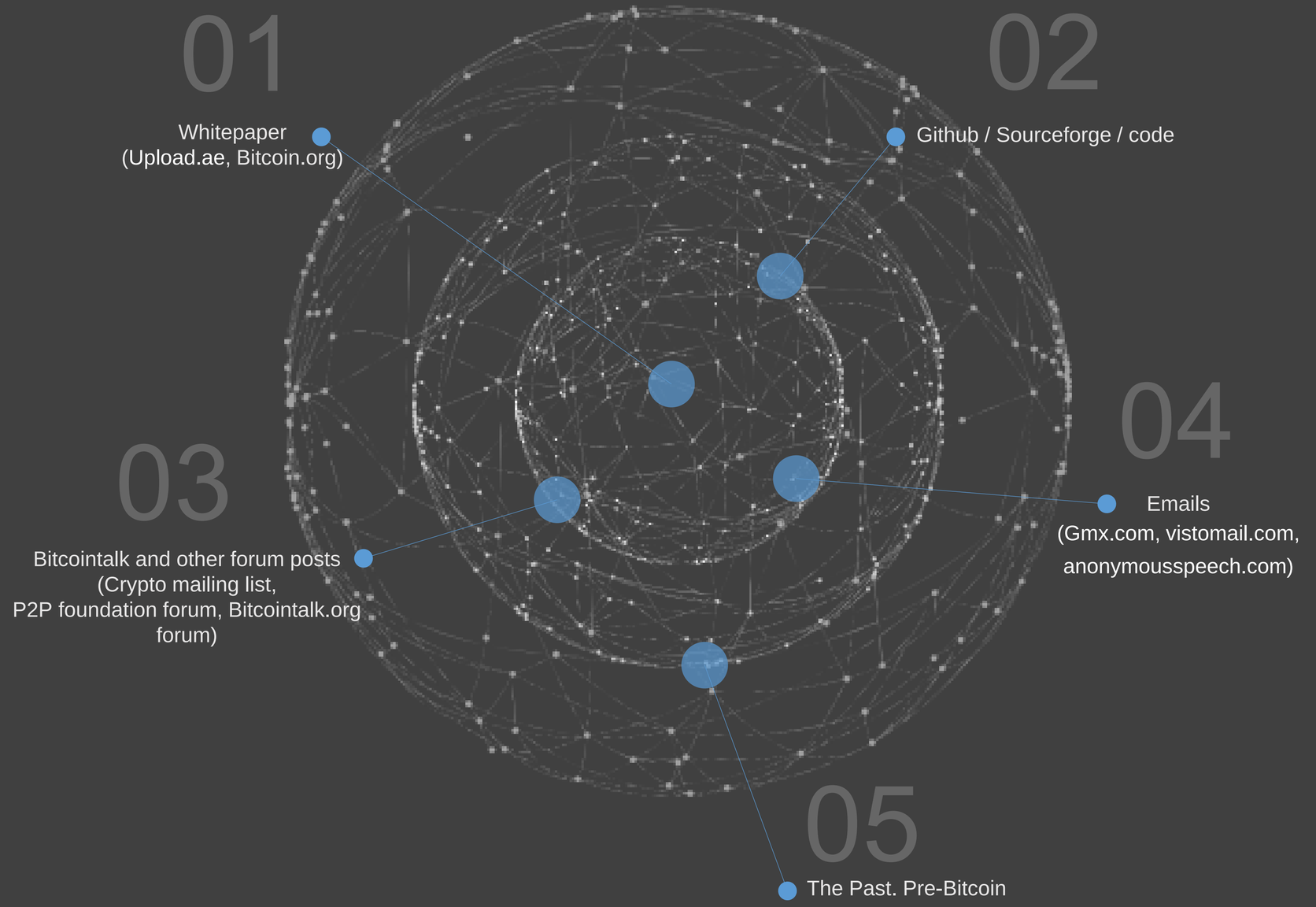
HE HAS NOT BEEN HEARD FROM FOR OVER 8 YEARS

SOMETHING JUST DID NOT ADD UP

AND SO OUR SEARCH BEGAN.

Evidence Based Investigation

There have been many attempts to find Satoshi over the last 10 years. Each public and private attempt ending in failure. This investigation uses publicly available information and lady luck to decrypt Satoshi.



Bitcoin Timeline Enhanced

2007

17 Jun – Bitcoin design and coding starts

The design and coding started in 2007.
https://bitcointalk.org/index.php?topic=13.msg46#msg46

I believe I've worked through all those little details over the last year and a half while coding it
http://www.metzdowd.com/pipermail/cryptography/2008-November/014863.html

I actually did this kind of backwards. I had to write all the code before I could convince myself that I could solve every problem, then I wrote the paper.
http://www.metzdowd.com/pipermail/cryptography/2008-November/014832.html

2008

18 Aug – Bitcoin.org registered via Anonymousspeech.com (Japan)

22 Aug - Whitepaper pre-release draft in circulation (upload.ae in United Arab Emirates)
https://www.gwern.net/docs/bitcoin/2008-nakamoto

31 Oct – Whitepaper published on crypto mailing list
http://www.metzdowd.com/pipermail/cryptography/2008-October/014810.html

16 Nov – Four source code files shared for peer review
https://bitcointalk.org/index.php?topic=382374.0

2009

3 Jan – Genesis block mined

9 Jan – Bitcoin v0.1 released and announced on crypto mailing list
http://www.metzdowd.com/pipermail/cryptography/2009-January/014994.html

12 Jan – First coin-transaction sent from Satoshi to Hal Finney (US)
https://bitcointalk.org/index.php?topic=2346992.0

11 Feb – Bitcoin v0.1 announced on P2P foundation
http://p2pfoundation.ning.com/forum/topics/bitcoin-open-source

Candidates for Satoshi Nakamoto?

If you believe the information in the mainstream media, there are only a handful of candidates that could have created Bitcoin. This could not be further from the truth. The cryptographic community was small but the blueprint for cryptocurrencies was available in the early 1980s thru 1990s due to work done by David Chaum and others

https://en.wikipedia.org/wiki/Ecash

Anyone who followed the space would have been aware of the holy grail of a digital currency. Even the late Nobel Laureate Milton Friedman talked about e-cash in 1999 https://www.youtube.com/watch?v=6MnQJFEVY7s. Across the internet there are hundreds of failed white papers and projects before Bitcoin. Due to this the number of candidates is a lot larger than one expects! Satoshis genius was connecting all the available information and solving the double spend problem in a decentralized manner.

The real Satoshi is a new name never mentioned before in any analysis over the last 10 years.

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THANKS FOR THE HISTORY LESSON

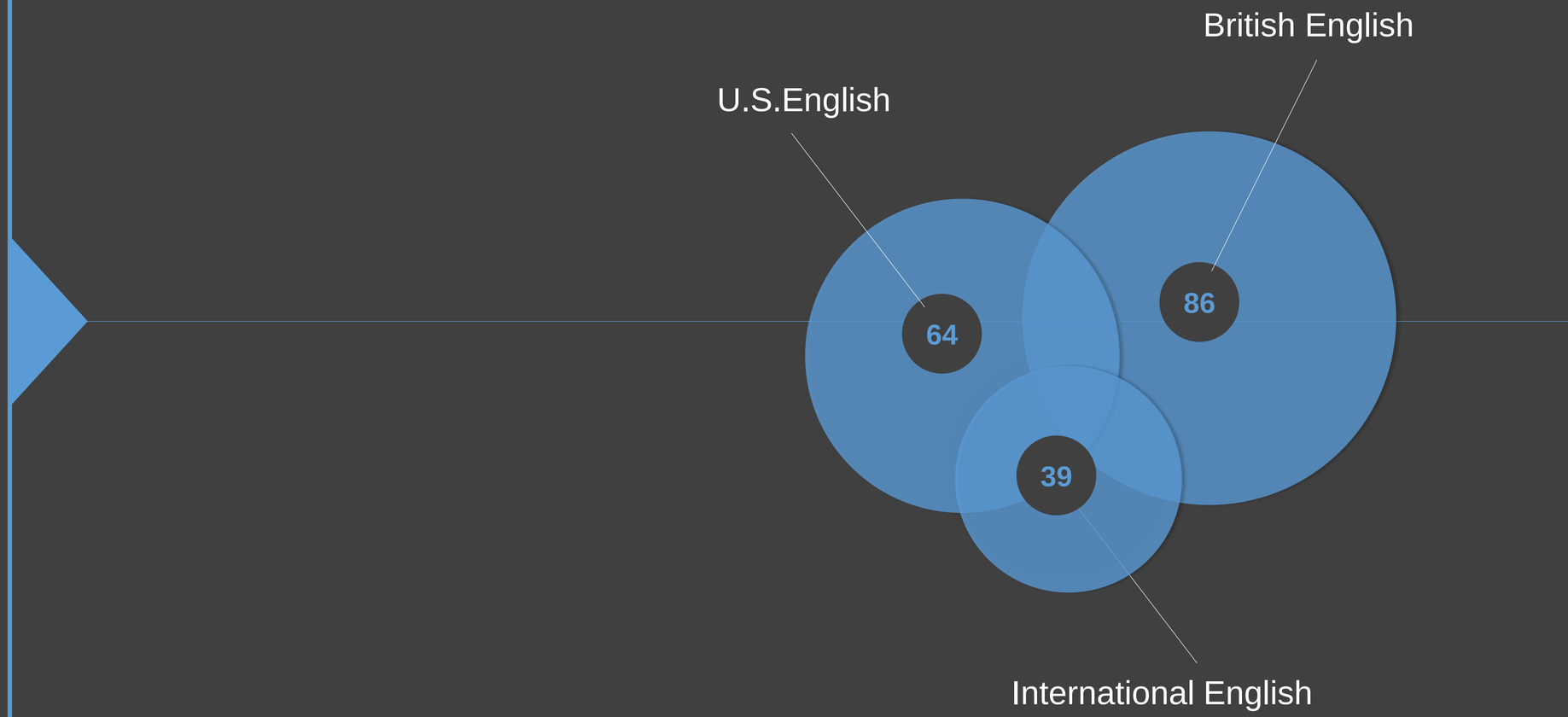
WHERE IS THE INTERESTING STUFF?

What Nationality is Satoshi?

Satoshi wrote over 80,000 words in publicly available forums and emails. Every communication was extremely well written with barely a typo! Satoshi was likely aware of Stylometry and used a combination of British, American and International English.

Satoshi mainly used British spellings and refers to British terms more often e.g. a ‘mobile’ rather than the American ‘cell phone’, ‘flats’ rather than ‘apartments’. Satoshi posted dates in the DD/MM/YYYY format, which is in common use in Britain but rare in the United States.

While the analysis cannot conclude anything 100%, Satoshi seems fluent and well versed in English, specifically British English!

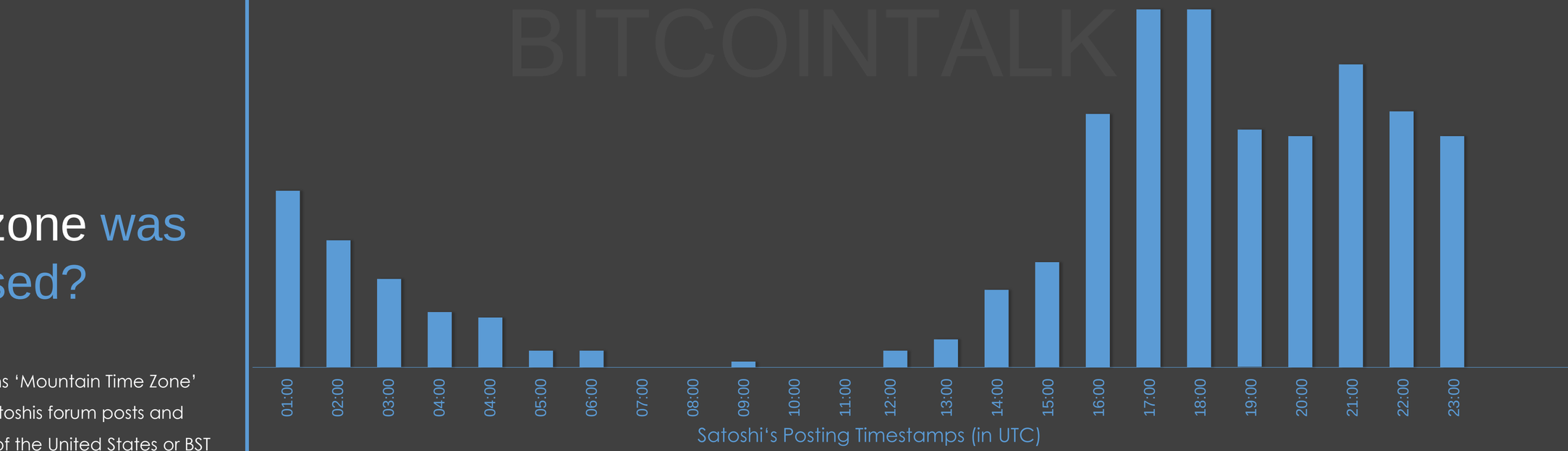


What Timezone was Satoshi Based?

Bitcoins white papers contains ‘Mountain Time Zone’ of the United States, while Satoshis forum posts and source code commits fit EST of the United States or BST for the United Kingdom. Analysis shows that the most likely timezones are:

- East-coast US with a fairly normal sleep schedule or
- Western Europe with a coder sleep schedule (real life job 9-5, then code late into evening night time).

Once again Satoshi leaves very little evidence of his time zone and location!



The closest timezone clue left by Satoshi, a timezone narrowing reference to ‘yesterday’:

14/02/2010 0000000065465700000000000000000000000000000000000000000000000000

2009 1.00
30/12/2009 1.18 +18%
11/01/2010 1.31 +11%
25/01/2010 1.34 +2%
04/02/2010 1.82 +36%
14/02/2010 2.53 +39%

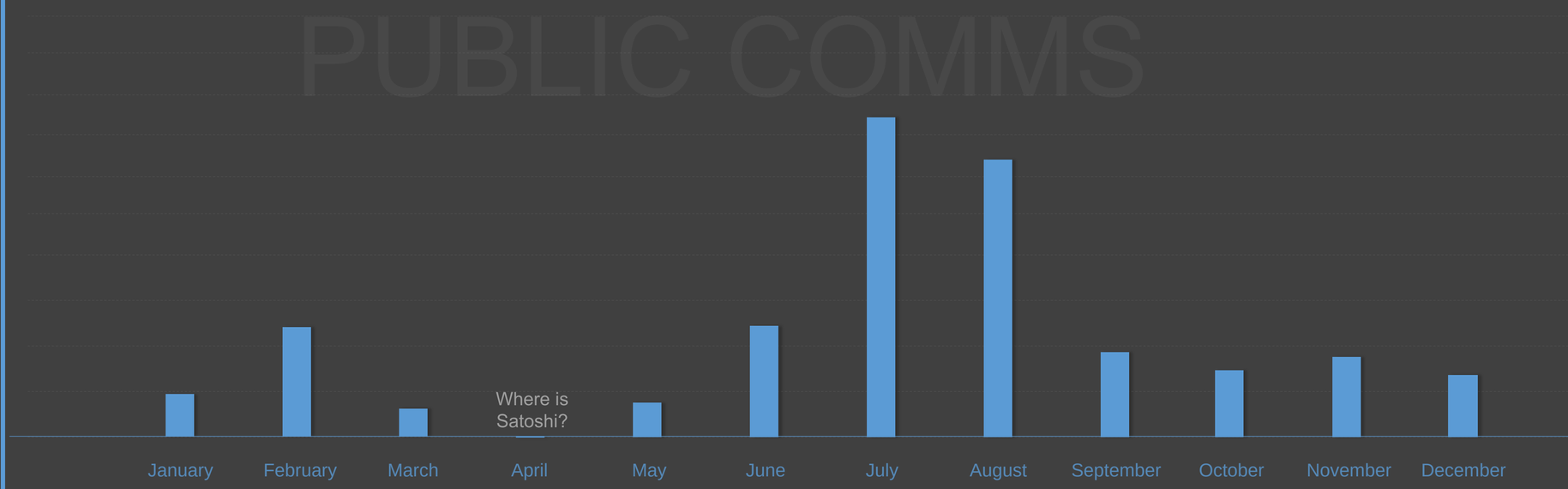
Another big jump in difficulty yesterday from 1.82 times to 2.53 times, a 39% increase since 10 days ago. It was 10 days apart not 14 because more nodes joined and generated the 2016 blocks in less time.

https://bitcointalk.org/index.php?topic=43.msg346#msg346

What Environment was Satoshi Based?

Satoshi spent very little time on Bitcoin-related activity in the months of March, April and May and then entered a sustained burst of activity during the summer of 2010.

Where was Satoshi in April? How did he find almost 24/7 free time in the summer months to work on Bitcoin? Pattern looks very similar to an academic term-time lifecycle.

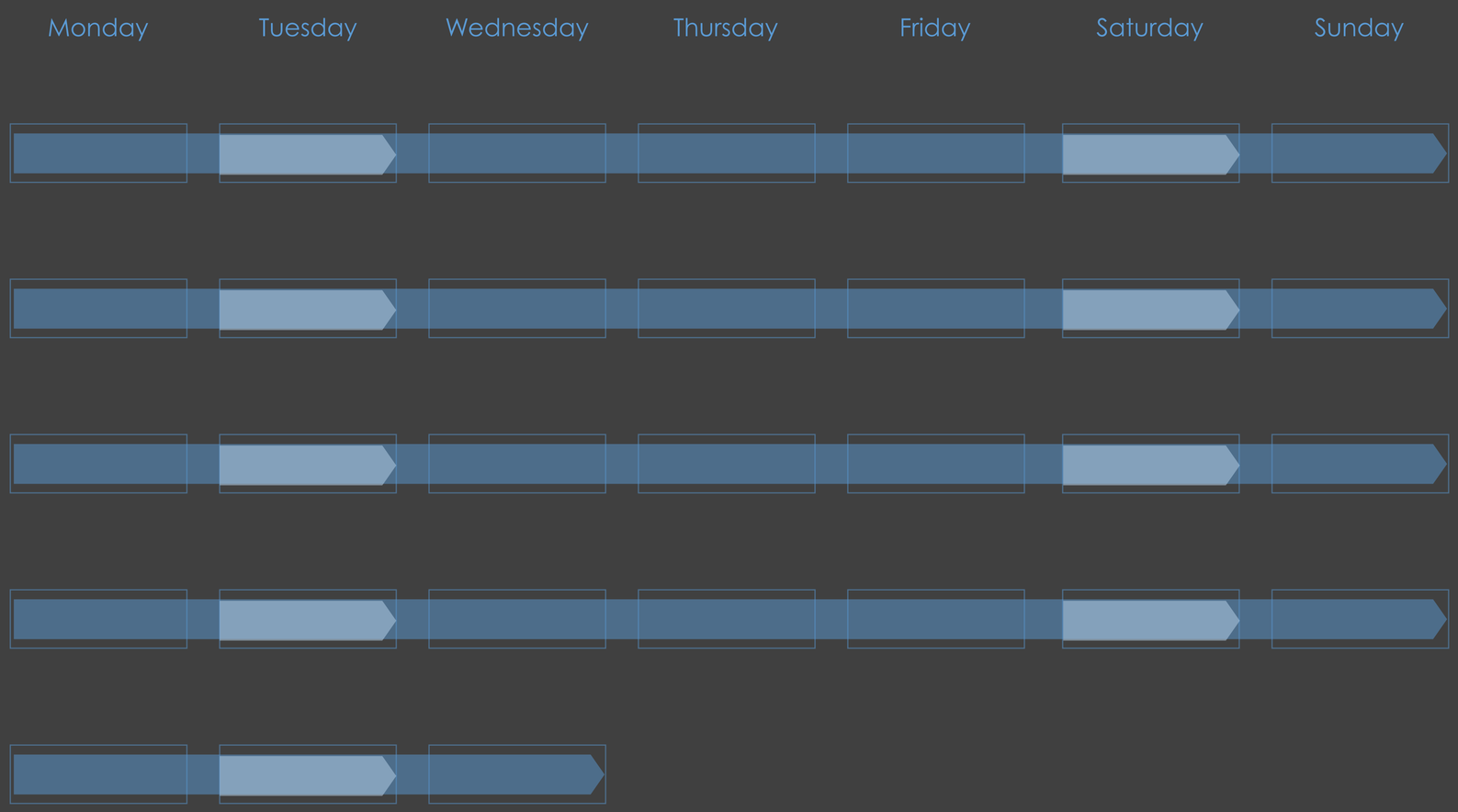


What was Satoshi doing on Tuesdays and Saturdays?

Satoshi was busiest on the forum on Thursdays followed by Sunday. Surprisingly Tuesday and Saturday showed the least activity.

If Satoshi had a normal 9-5 Mon-Fri schedule, what would explain the drop in activity for Saturday?

Thought: Pattern fits an academic with a part-time Saturday job / travel commitments.



Satoshi’s Computer Windows PC(s)

The original Bitcoin code was not multi-platform. It was Windows only and programmed in the older C++ programming language. These were against the norm for open source projects of the time.

Satoshis two working environments

On the 12th Jan 2009, Satoshi communicates “Unfortunately, I can't receive incoming connections from where I am, which has made things more difficult. Your node receiving incoming connections was the main thing keeping the network going the first day or two.” This implies Satoshi spent time in two environments, one with open network access and one that was more locked down and outside of his control.

https://online.wsj.com/public/resources/documents/finneynakamotoemails.pdf

Satoshi did not have an Intel i5, nor AMD PC

“I hope someone can test an i5 or AMD to check that I built it right. I don't have either to test with. I'm also curious if it performs much worse on 32-bit linux vs 64-bit.”

https://bitcointalk.org/index.php?topic=820.0

Satoshi was Windows PC only

Satoshi programmed Bitcoin on Windows PC, using Visual Studio and C++

Satoshi did not own a MAC

Thought: Was Satoshi from a wealthy background? He did not own a powerful PC nor a MAC as all the OSX builds were done by Laszlo Hanyecz.

https://bitcointalk.org/index.php?topic=116.0

Satoshi gets Linux/Unix

Thought: Was Satoshi from a wealthy background? He did not own a powerful PC nor a MAC as all the OSX builds were done by Laszlo Hanyecz.

https://bitcointalk.org/index.php?topic=116.0

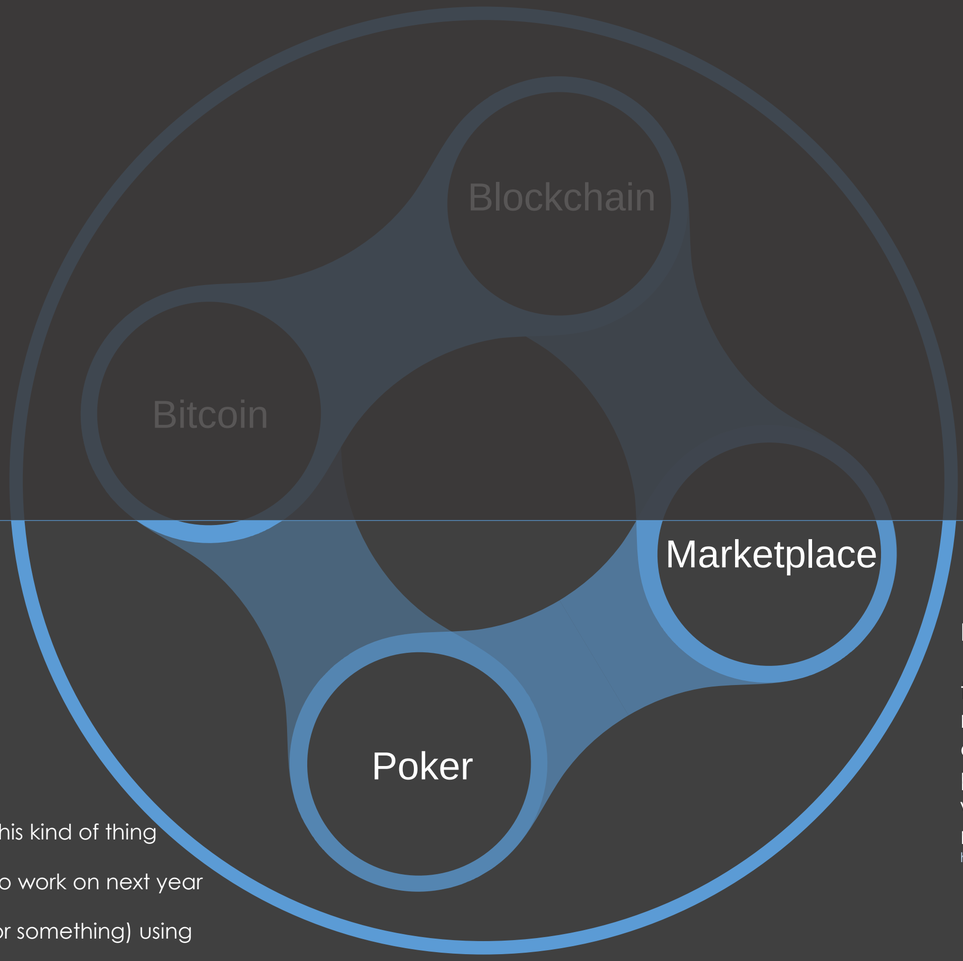
Bitcoin v0.1 code clues.

Bitcoins DNA blueprint has more than just a digital currency and blockchain. Hidden within the original code are signs of the wider vision:

- Marketplace code
- Poker game code

Satoshi was inspired by writings on the Cypherpunk mailing lists. Hal Finneys post in 2004 was the catalyst for Satoshi to look deeper into ecash. This is one of many reasons Satoshi showed admiration for Hal Finney.

NB. The late Hal Finney is not the real Satoshi Nakamoto. Hal was a great man who helped Bitcoin in its early days to be taken seriously and established. Satoshi was inspired and looked unto Hal for his achievements within the cypherpunk movement.



Hal Finney Poker Post 2004

I've been thinking about how to do this kind of thing with ecash. One project I'm hoping to work on next year is a P2P gambling game (like poker or something) using my rpow.net which is a sort of play-money ecash. You'd like to be able to do bets and have some kind of reasonable assurance that the other guy would pay up if he loses.

https://marc.info/?l=cypherpunks&m=109961094015550&w=2

Decentralized Markets

the world needs an online marketplace that does not have a central administrative or corporate point of attack — or rather, the world is getting one whether it needs it or not.

https://marc.info/?l=cypherpunks&m=98348154629779&w=2

MOST INVESTIGATIONS TO FIND SATOSHI END AT THIS POINT

SATOSHI WAS AN EXPERT AT KEEPING HIS IDENTITY SECRET

HOWEVER THE LIST OF OBSERVATIONS PROVIDE A CHECKLIST

THAT CAN BE USED IN ADDITION TO CRYPTOGRAPHIC PROOF

THAT ANY SATOSHI CANDIDATE WILL HAVE TO VALIDATE AGAINST

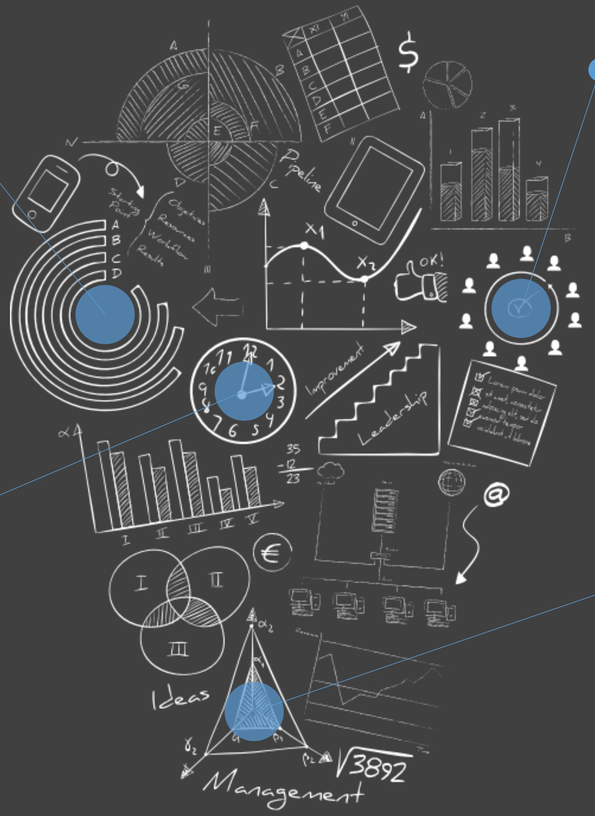
An Out-of-the-box Journey to find Satoshi Nakamoto

01

File Sharing Trail

02

Random Non-Bitcoin Forum



03

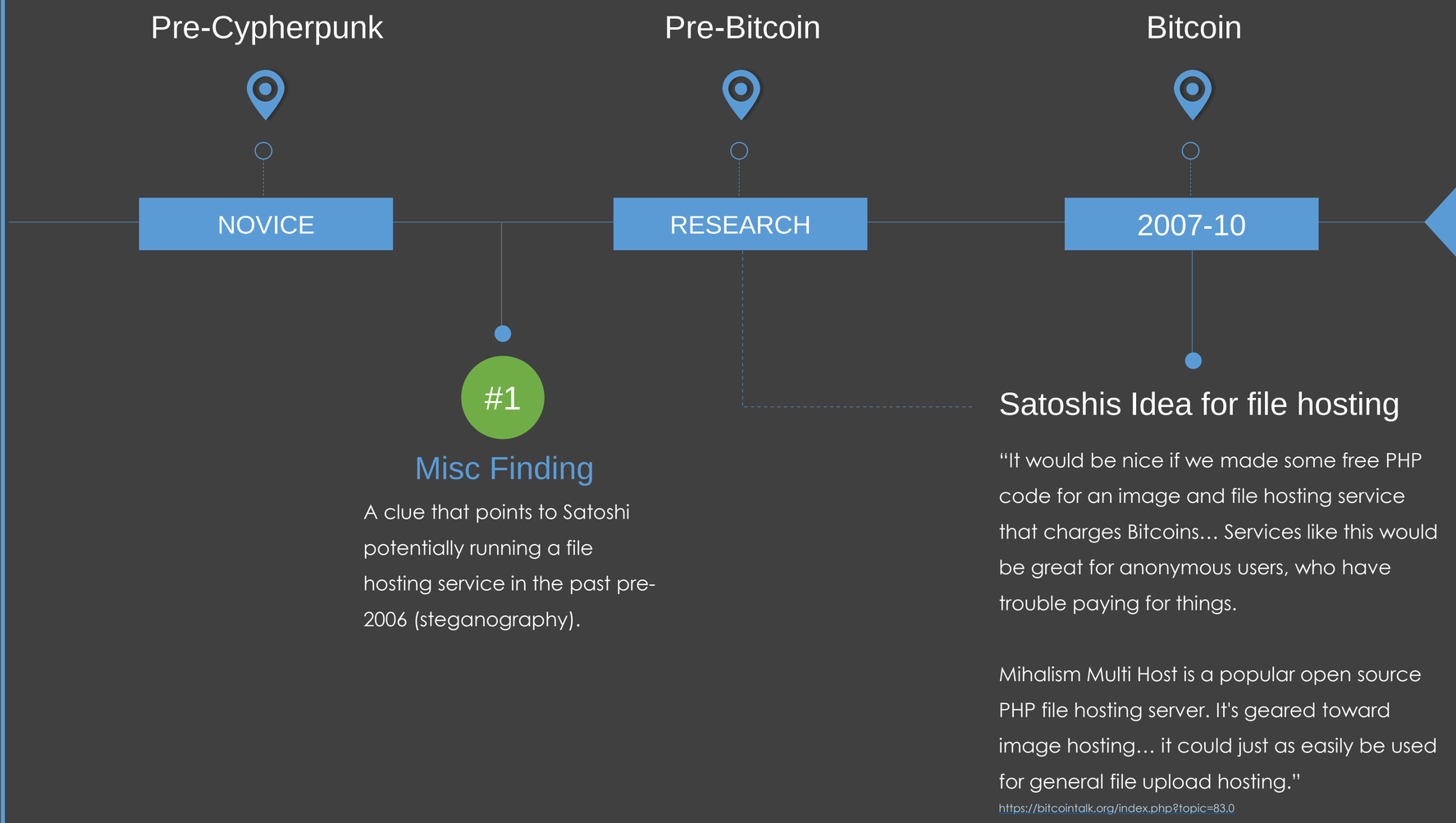
Third Party Reference

04

Bitcoin Testing

Finding Young Satoshi when he was not Expert Satoshi!

Satoshi was a privacy expert when he created Bitcoin. He used tools to mask his IP and any traces to his real identity. However everyone is a beginner at one point in time. A search to find Satoshi pre-Bitcoin started.



Finding Young Satoshi when he was not Expert Satoshi!

Satoshi was a privacy expert when he created Bitcoin. He used tools to mask his IP and any traces to his real identity. However everyone is a beginner at one point in time.

#2

Misc Finding

A loosely linked Crypto-ish post from pre-2000. On its own it meant nothing which is probably why its evaded the whole of the internet to date.

Finding Young Satoshi when he was not Expert Satoshi!

Satoshi was a privacy expert when he created Bitcoin. He used tools to mask his IP and any traces to his real identity. However everyone is a beginner at one point in time.

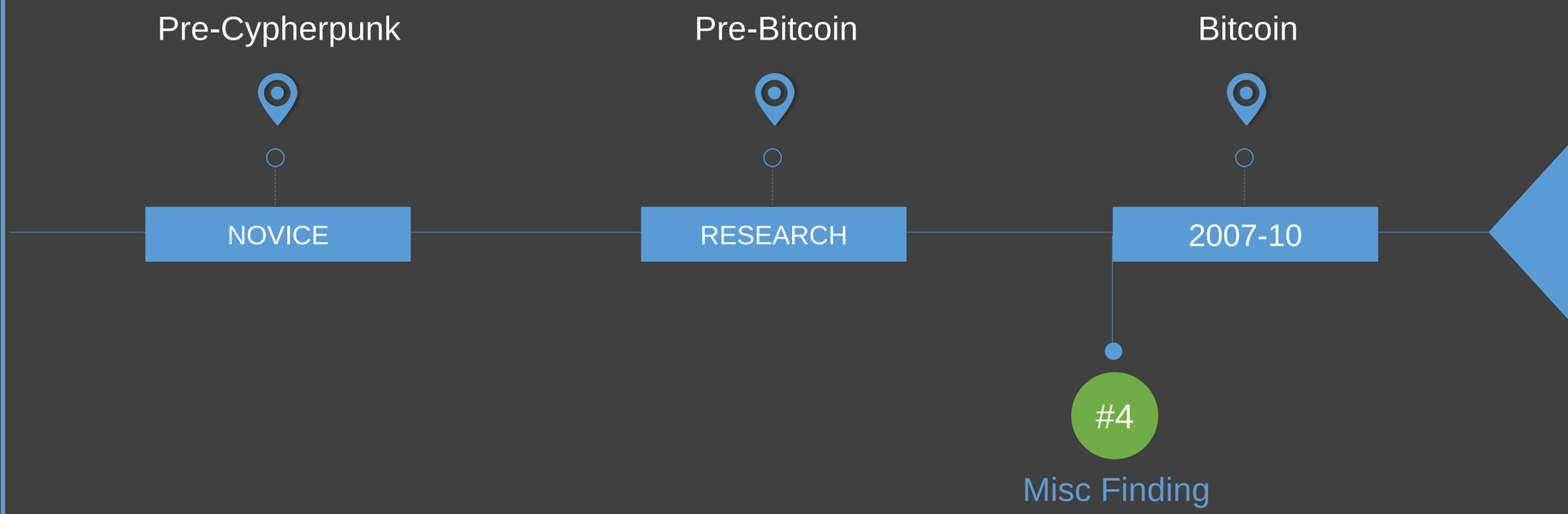
#3

Misc Finding

The most important clue. The only mistake that Satoshi ever made. A third party reference to Satoshi from the past. However as no names are mentioned and the source so obscure, it has been missed by the entire Internet. Satoshi was careful but he could not control the interactions with all the people he came across over time. Even the author of the clue did not know how big a reveal #3 would be to finding the real Satoshi.

Finding Young Satoshi when he was not Expert Satoshi!

Satoshi was a privacy expert when he created Bitcoin. He used tools to mask his IP and any traces to his real identity. However everyone is a beginner at one point in time.



Does a place that match chain archaeology exist?
https://bitcointalk.org/index.php?topic=507458.0

Misc Finding

3 Jan 2009 – Why was the Genesis block mined on the 3rd and not the more natural 1st?

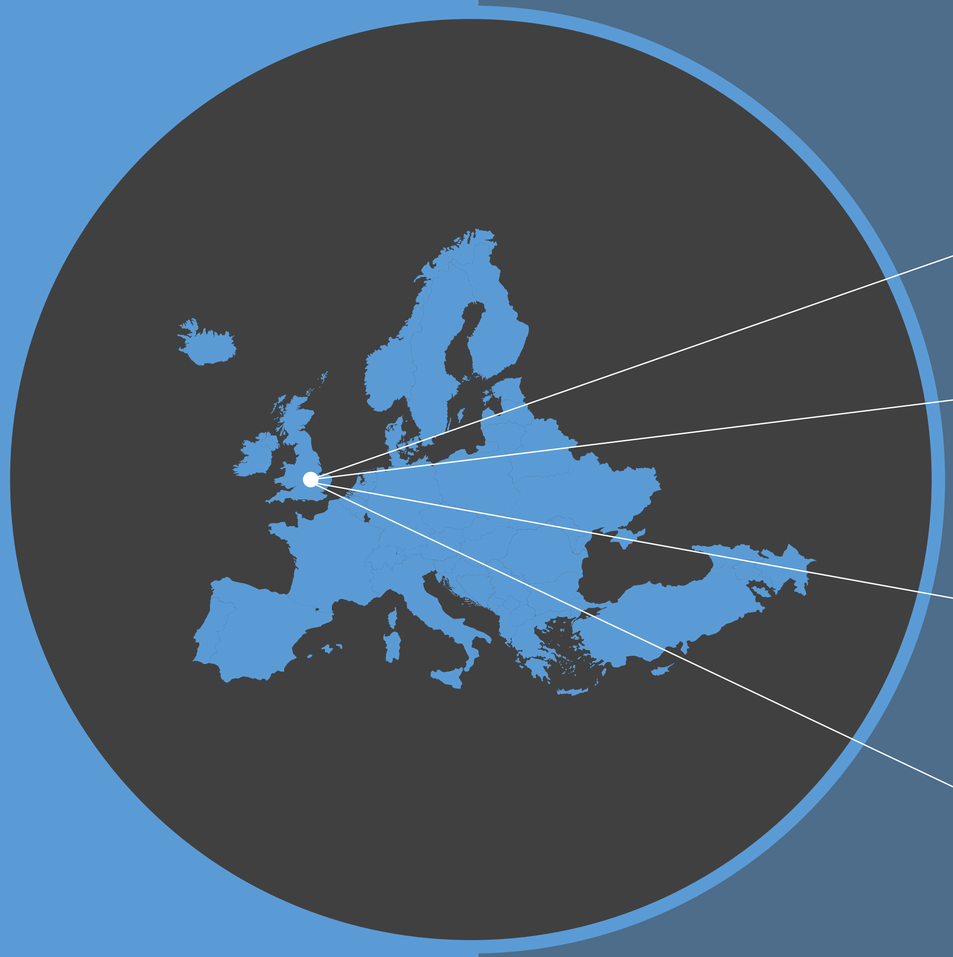
9 Jan 2009 – Why did it take 6 days for the first block to be mined on such low difficulty?

11 Jan 2009 - Satoshi developed and tested Bitcoin on a closed network / test machines. Where was it? “since I wasn’t able to test it in the wild until now. There are many more ways for connections to get screwed up on the real Internet.”
https://sourceforge.net/p/bitcoin/mailman/message/21303153/

12 Jan 2009 - Why could Satoshi not accept inbound connections?
https://online.wsj.com/public/resources/documents/finneynakamotoemails.pdf

Organize the Info.

Four miscellaneous Satoshi related findings had one thing in common. A city. The same city in the UK. Not a random city but a specific city with some very specific assets and resources.



01 Finding #1

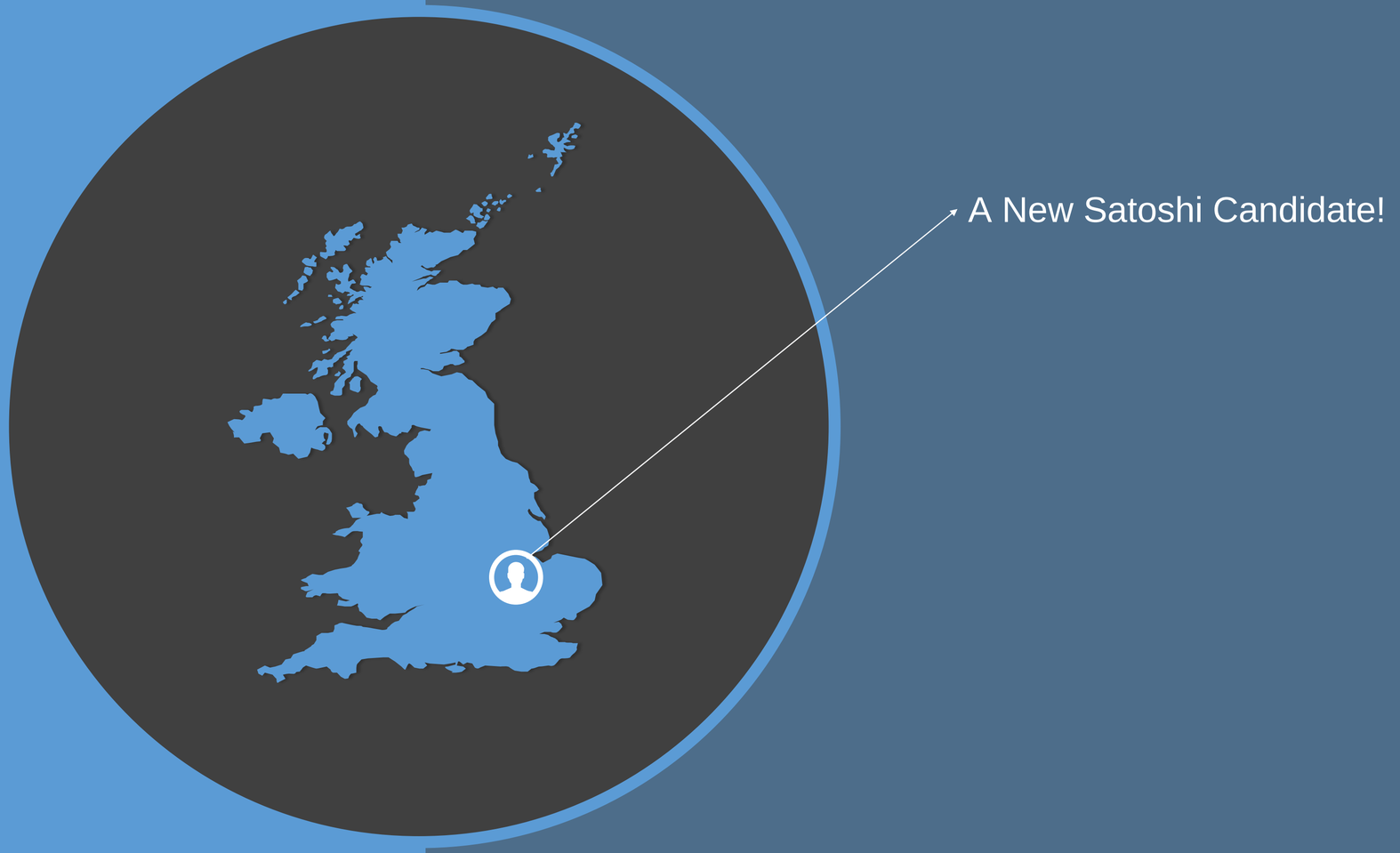
02 Finding #2

03 Finding #3

04 Finding #4

Real Satoshi Please Stand Up!

Searching with the key themes of the four clues identified a new candidate. A name that was new and not mentioned or referenced before on the Internet related to Bitcoin.

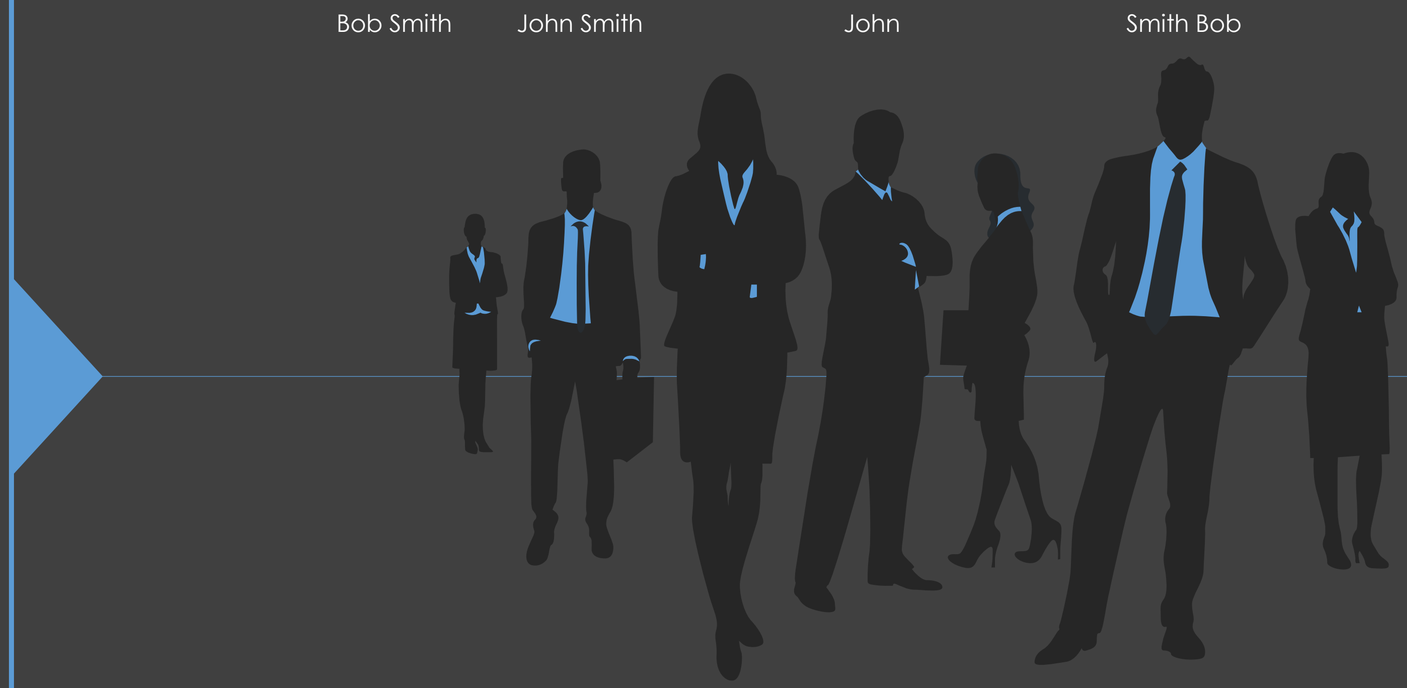


AT THIS STAGE THE THOUGHTS WERE THAT

IT WOULD ALL TURN OUT TO BE A FALSE LEAD

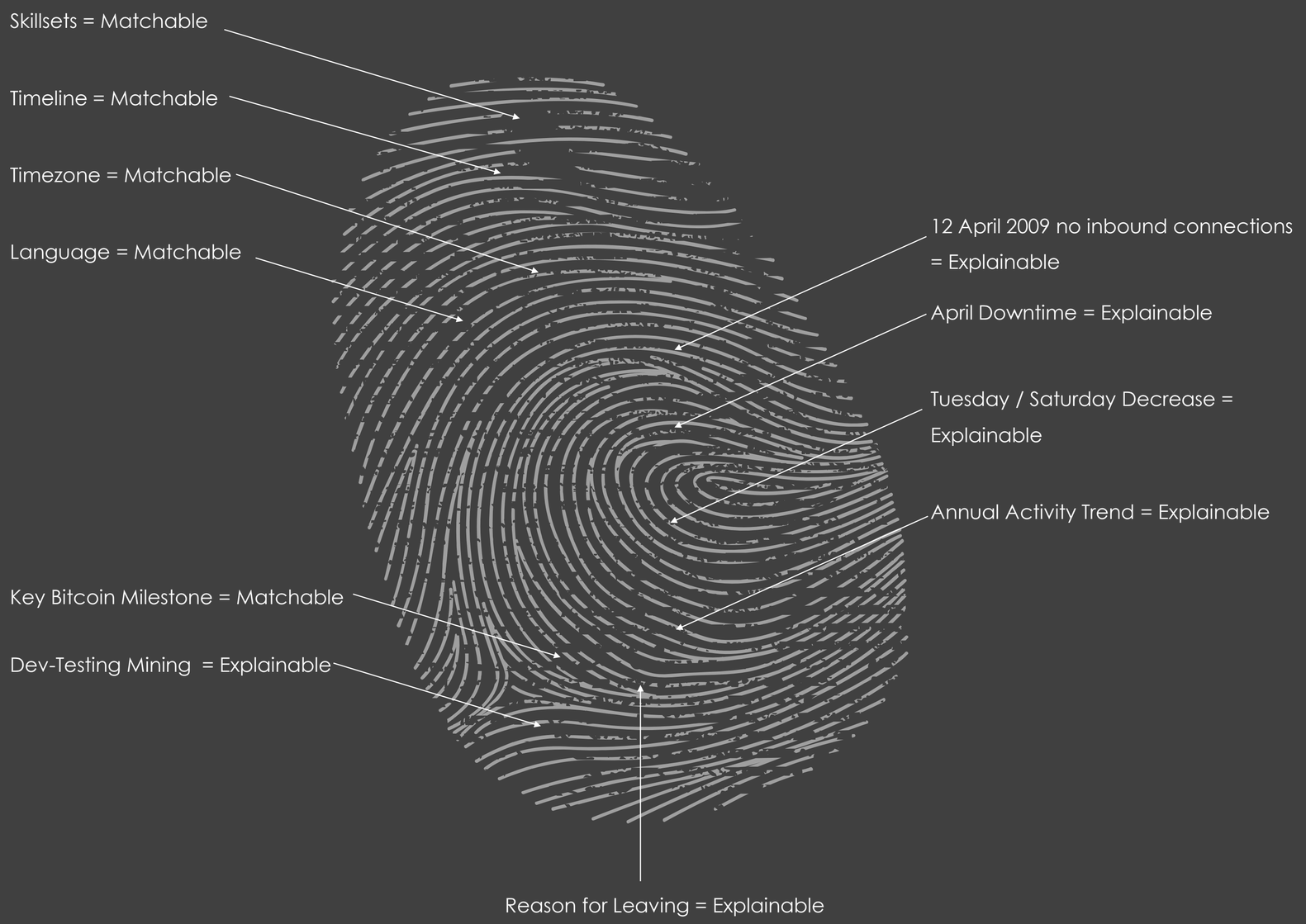
Real World Satoshi
Only Exists with Multiple Names!

As the new Satoshi candidate was researched, the more mysterious it got. The same person had multiple variations of his name. Each variation corresponded with a short period of real time. Stitching the IDs together took a long time. Even in the real world, people that interacted with Satoshi knew him under different names. And after 2012, there is no trace of any variations of the real world Satoshi (that can be publicly sourced).



Eureeeka!

Expecting the checklist created for Satoshi to fail, the surprise as the identified candidate kept matching the criteria; even the totally miscellaneous observations. Things had just got very serious. Satoshi Nakamoto had just been decrypted.



The Real Nakamoto

Interesting reveals about the real Satoshi Nakamoto.

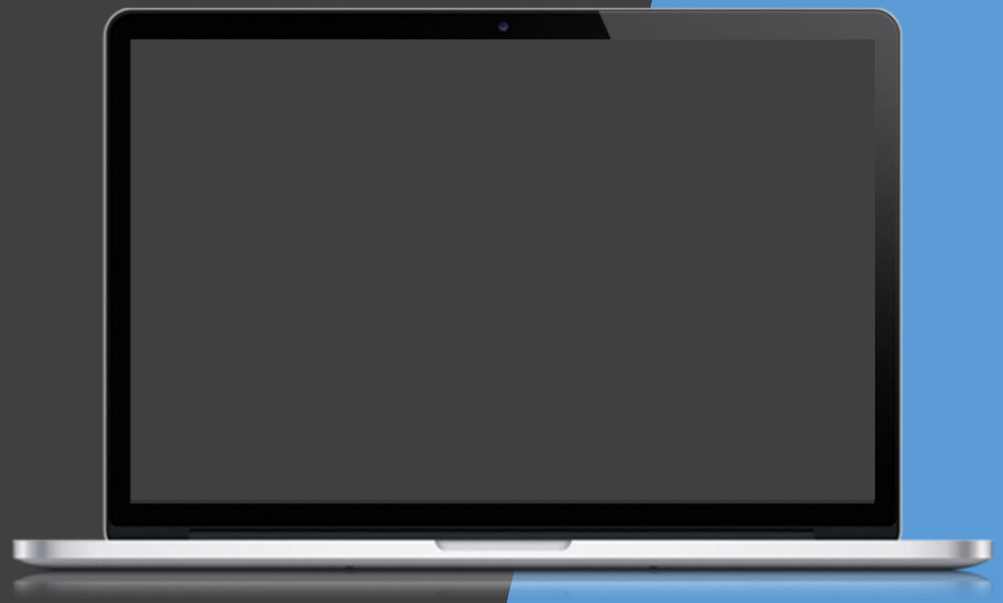
British Asian

Science Alumni

Born in 1975 !

How Did One Person Develop Bitcoin?

In academia, research is built upon research. Similarly Bitcoin was built using information from a wide variety of resources and personnel. One advantage the real Satoshi had, was having access to cutting edge tools and information from all the relevant fields needed to make Bitcoin work (Game theory, cryptography, economics, grid computing etc.)



Code Consistency

Bitcoins code is robust. It succeeded because it just worked and showed bullet proof security.

Simulated Testing

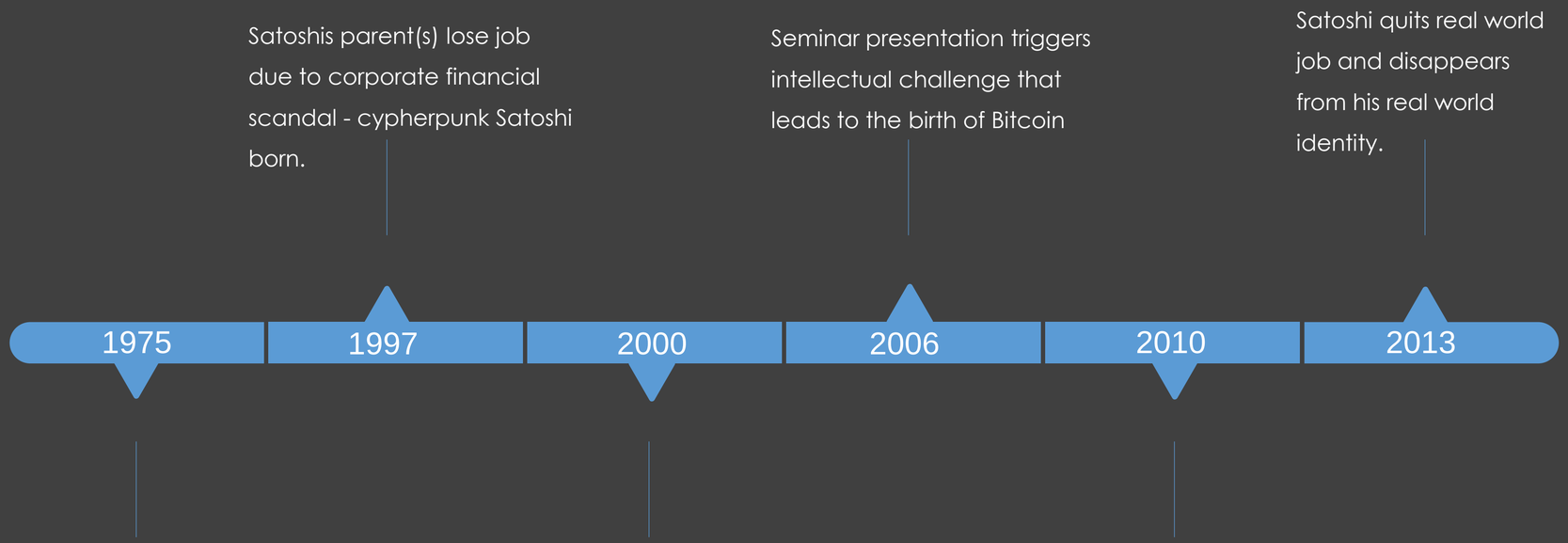
Bitcoins code underwent thorough testing via simulated grid network. This explained its robustness.

Lab Identification

Satoshi had access to a lab of computers that matched

https://bitslog.wordpress.com/2013/09/03/new-mystery-about-satoshi/

Real Satoshi Timeline



1975 — Satoshi Nakamoto Born

P2P Foundation profile Satoshi listed his birthday as April 5th, 1975. Bitcointalk number of post = 575 = 5th 1975? Co-incidence?

1997 — Satoshis parent(s) lose job due to corporate financial scandal - cypherpunk Satoshi born.

2000 — Satoshi runs anonymous file sharing site supporting potential 'political activists' using steganography

2006 — Seminar presentation triggers intellectual challenge that leads to the birth of Bitcoin

2010 — Satoshi leaves Bitcoin due to file sharing history. Wikileaks bought earlier than expected government agency heat risking revelation of his identity and history.

2013 — Satoshi quits real world job and disappears from his real world identity.

To DOX or not to DOX?

Is it ethical to dig into a private citizen's life on suspicion of him being Satoshi? Should he be named? Is it in the public's interest to understand who Satoshi is / was given the massive stake, influence and historical importance? The search for Satoshi began due to intrigue. The decision not to publish the key clues and ultimately name, was due to the assassination of Jamal Khashoggi on 2 October 2018. From the info collected Satoshi was a normal guy who struck some intellectual gold. He went to extreme lengths to protect his identity and this was due to activism safety. Due to these facts only the bare minimum information has been revealed.

ETHICAL?

PUBLIC INTEREST?

INDIVIDUAL SAFETY!

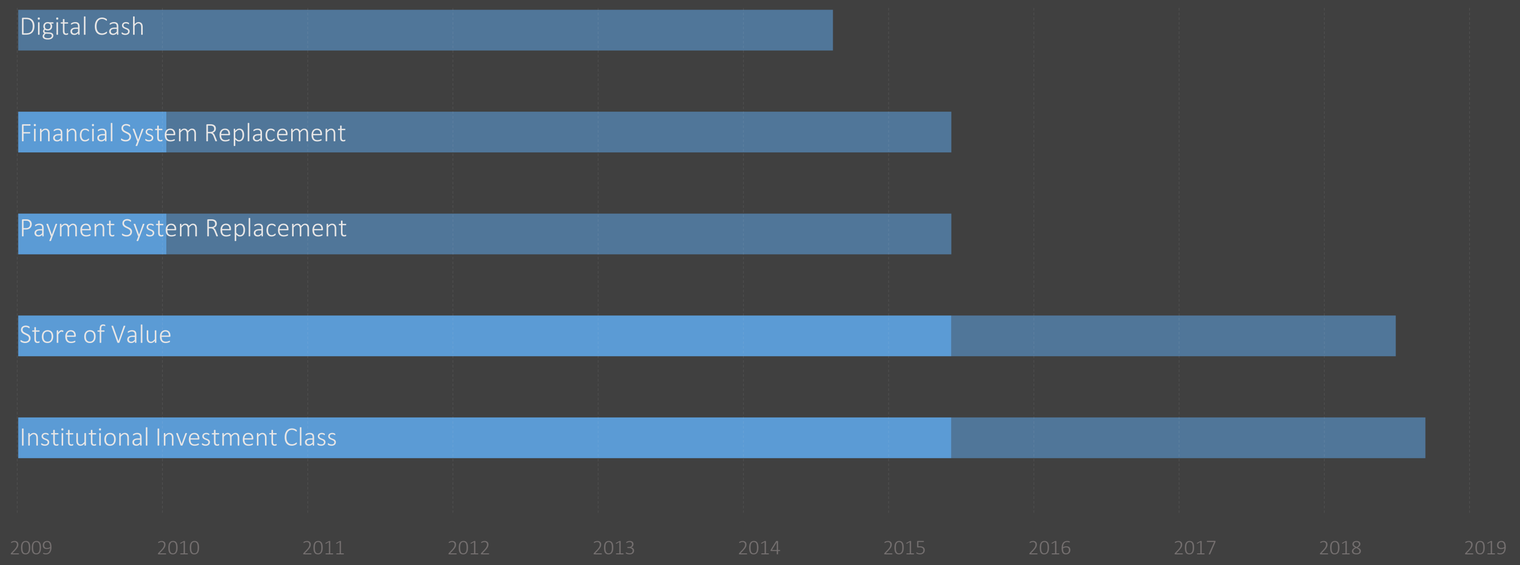
IS THIS THE END?

SATOSHIS CODE!

Bitcoin and the Crypto Eco-system.

Satoshi built Bitcoin as digital cash. To challenge the current financial system and become a new payment system. In 2019 it mainly acts as a ‘Store of value’ or a new ‘Institutional Investment Class’. All due to the lack of scalability!

The puzzle is that Satoshi knew the processing capacity of Visa back in 2009. He built and tested beyond those limits. IF Satoshis development code and solution could be found, the current Crypto eco-system could easily surpass legacy banking infrastructure hence realise the original vision. AND so a new search begins!



Digital Cash

2009 | 100 %

Store of Value / Investment Class

2019 | 90 %

Satoshis Offline Code Hunt

Never did we think we would actually find the real Satoshi! While he has stepped away for valid reasons, there is enough clues that his offline code may still be available to be found. Finding his offline code would be a valuable and massive catalyst for the wider crypto movement heading into 2020!

A Good Starting Point

The next chapter of research is in-progress…

ONE DAY SATOSHI MAY REVEAL HIS OWN ID

TO CONFIRM WE FOUND HIM FIRST

FED-E-X —> MY-E-X —> NO-E-X

THANK YOU FOR READING