

# Beyond Bitcoin & FORTH (BFF001)

## Hilbert Hotel with Infinite Cabinets

This is a series to recap our work on FORTH and the next generation Internet hardware, software & networking technologies, starting with David Hilbert's theory of infinity, as illustrated by the Grand Hotel with (a twist that is) rooms containing infinite cabinets, representing ownerships of digital assets (in the cabinets) using hash numbers. The Hash Filesystem replaces database servers, simplifying server node implementations based on FORTH architecture.

Liang Ng, January 2026

[omnixtar.github.io/svfig](https://omnixtar.github.io/svfig)

<https://www.linkedin.com/in/liang-nq>

- *alternative solution to Bitcoin and blockchain technologies for managing ownerships of digital assets*

**“Who owns digital assets?”**

**“Buy, sell, transfer, royalties?”**

- *Omnihash & DJSON  
Decentralised JSON*

The screenshot shows the I2P Router Info interface. On the left is the I2P logo, which consists of a grid of colored circles (green, yellow, red) arranged in a 3x3 pattern. Below the logo is the text "Router Info". At the bottom, it shows "Version: 2.6.1-0" and "Uptime: 6 hours".

**Hidden Services Manager**

Hidden Services Manager

These are the local services provided by your router. By default, most services are hidden from the outside world. You can change this by clicking on "Clients".

**Status Messages**

Starting tunnel A01 Omni\*web HTTPS...  
Error listening for connections on /127.0.0.1 port 4444  
Stopping client HTTP Proxy on 127.0.0.1:4444  
Client error for 127.0.0.1:4444, check logs  
BLOCK timestamp

**Pay-to-PubKey-Hash (Pay-to-Public-Key-Hash, P2PKH)** is the basic form of making a transaction on the [Bitcoin network](#). Transactions that pay P2PKH scripts that are resolved by sending the public key and a digital signature from the private key.

The ScriptPub

<https://bitcoinwiki.org/wiki/pay-to-pubkey-hash>

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1. Pay-to-Pubkey Hash
  - 1.1. Pay-to-PubKey-Hash Review
  - 1.2. Pay-to-PublicKey Hash Example
  - 1.3. See also
  - 1.4. References

## FORTH / (Phoscript)

- *virtual machine in extreme environments*
- *abstraction of source code for monetisation*

publishing the public key only when the coins are spent (and assuming that address is rendered ineffective).



hongwu@hongwu-Latitude-5480: /var/www/dmeta/o/auth/Graph/dmeta



```
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:12 'Hzn18Vs0lg=='
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:10 'Hhj3wWn0OA=='
-rw-r--r-- 1 www-data www-data 618 Jan 22 15:09 'GUD2koxhKQ=='
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth/Graph/dmeta$ ls -lt BYRAtdTkFw\=\=|\=/|head
total 52
-rw-r--r-- 1 www-data www-data 618 Jan 22 17:32 Gg-6Vx8ANQ==
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:51 FcSSP_buqA==
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:21 E9wHrPZbIA==
-rw-r--r-- 1 www-data www-data 1150 Jan 22 15:16 CFkif5lnhg==
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:16 HBJa8olJPw==
-rw-r--r-- 1 www-data www-data 1150 Jan 22 15:16 ASE2NFkzjA==
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:16 EpJddpwPA==
-rw-r--r-- 1 www-data www-data 618 Jan 22 15:16 Hk27YiUtuA==
-rw-r--r-- 1 www-data www-data 1150 Jan 22 15:15 CemDL02Hfw==
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth/Graph/dmeta$ cat BYRAtdTkFw\=\=|\=/Gg-6Vx8ANQ\=\= ;echo
{"t": "2026-01-22T09:32:39.065Z", "m": "from_parent_20260110_button", "c": "<h4 id=\"-solution-for-truly-decentralised-internet\">\u2013 Solution for Truly Decentralised Internet<a class=\"anchorjs-link\" href=\"#-solution-for-truly-decentralised-internet\" aria-label=\"Anchor\" data-anchorjs-icon=\"\ue9cb\" style=\"font: 1em / 1 anchorjs-icons; padding-left: 0.375em;\"></a></h4>", "x": "like", "u": {"href": "https://omnixtar.github.io/I3P/", "origin": "https://omnixtar.github.io", "protocol": "https:", "host": "omnixtar.github.io", "hostname": "omnixtar.github.io", "port": "", "pathname": "/I3P/", "search": "", "hash": ""}}
```

**hongwu@hongwu-Latitude-5480: /var/www/dmeta/o/auth/Graph/dmeta**

```
total 12
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:12 'Hzn18Vs0lg=='
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:10 'Hhj3wWn00A=='
-rw-r--r-- 1 www-data www-data 618 Jan 22 15:09 'GUD2koxhKQ=='
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth/Graph/dmeta$ cat BYRAtdTkFw\=\=/Hzn18Vs0lg\=\= ; echo
{"t": "2026-01-22T07:12:52.930Z", "m": "like", "c": "<h4 id=\"-solution-for-truly-decentralised-internet\">\u2013 Solution for Truly Decentralised Internet<a class=\"anchorjs-link\" href=\"#-solution-for-truly-decentralised-internet\" aria-label=\"Anchor\" data-anchorjs-icon=\"\ue9cb\" style=\"font: 1em / 1 anchorjs-icons; padding-left: 0.375em;\"></a></h4>", "x": "search", "u": {"href": "https://omnitar.github.io/I3P/"}, "origin": "https://omnitar.github.io", "protocol": "https:", "host": "omnitar.github.io", "hostname": "omnitar.github.io", "port": "", "pathname": "/I3P/", "search": "", "hash": ""}}
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth/Graph/dmeta$ ls -lt|head
```

Hash Filesystem (HFS): Directory name is hash of public key (User Identifier)

*Dual chained properties replace many (all?) database functionalities?*

- chained strings: hashcodes can be chained (concatenated) with strings
  - chained functions (hash of a string is a string)

$$H(s) \rightarrow s, H(H(s)) \rightarrow s, \dots, H^n(s) \rightarrow s$$

- - - - - 1 www-data www-data 97 Jan 16 15:58 10mvUdP8

hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth/Graph/dmeta\$

hongwu@hongwu-Latitude-5480: /var/www/dmeta/o/auth/Graph/dmeta

```
total 12
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:12 'Hzn18Vs0lg=='
-rw-r--r-- 1 www-data www-data 597 Jan 22 15:10 'Hhj3wWn00A=='
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{"t":"2026-01-22T07:12:52.930Z","m":"like","c":<h4 id="-solution-for-truly-decentralised-internet">\u2013 Solution for Truly Decentralised Internet<a class="anchorjs-link" href="#-solution-for-truly-decentralised-internet" aria-label="Anchor" data-anchorjs-icon="\ue9cb" style="font: 1em / 1 anchorjs-icons; padding-left: 0.375em;"></a></h4>,"x":"search","u":{"href":https://omnixtar.github.io/I3P/","origin":https://omnixtar.github.io,"protocol":https,"host":omnixtar.github.io,"hostname":omnixtar.github.io,"port":"","pathname":"/I3P/","search":"","hash":""}}}
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth/Graph/dmeta$ ls -lt|head
```

Omnihash: hashCode representing ANY kind of digital assets (Omni-)  
Omni\*Web: a truly decentralised web ecosystem built using Omnihash  
Omni – widely used by big corps  
\* = everything in programming but not a valid character by law  
Omni\*Web: a legally invalid name that cannot be prosecuted (theoretically)

- - - - - 1 www-data www-data 97 Jan 16 15:58 1emvJbD8

hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth/Graph/dmeta\$

## Dual chained properties replace many (all?) database functionalities?

- chained strings: hashcodes can be chained (concatenated) with strings
- chained functions (hash of a string is a string)

$H(s) \rightarrow s, H(H(s)) \rightarrow s, \dots, H^n(s) \rightarrow s$

Example: `h_f0` in ajax response

Reason for lightweight “FORTH card computer” implementation →  
– so “database-less”

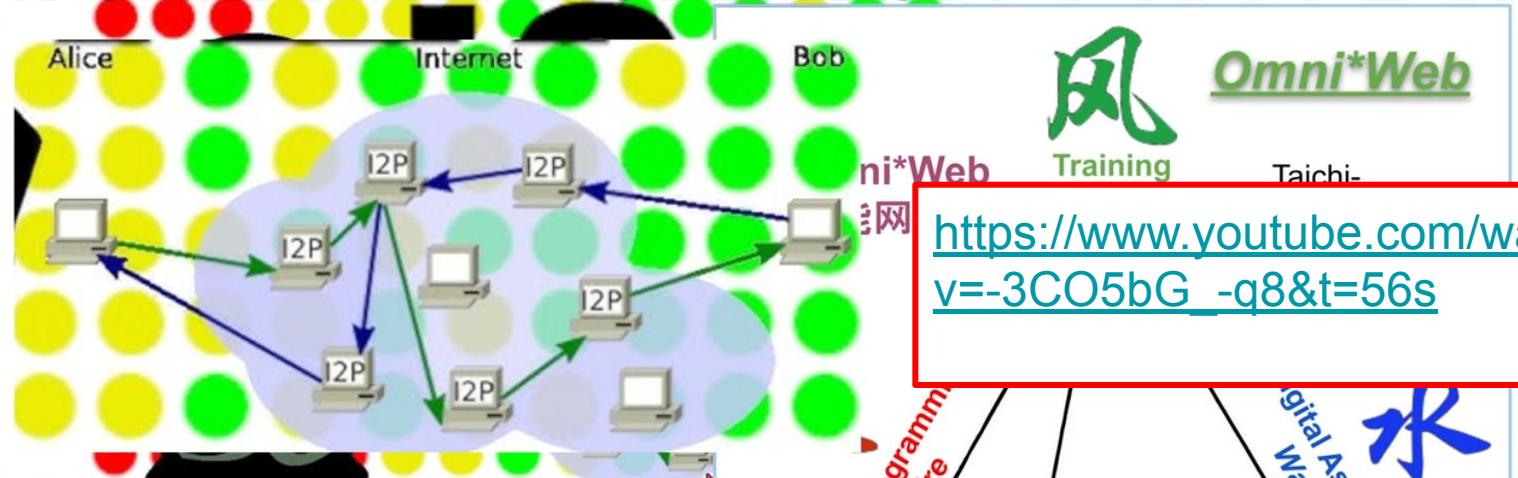
```
MDEtMjJUMDk6MzA6MDluMzM5WiSlmhfZjAiOjIYkNUMF
BtxZJRP0ifQ==", "b64d:", "jd:", "array:", "swap:", "ap:", "2dup:
", "acdwa:", "over:", "HF0", "bv:", "a_cmd", "gbv:", "HF0", "i:", "0",
"i:", "h_f0", "usa:", "je:", "dup:", "hbp", "2", "pick:", "array:", "swap
:", "r:", "apk:", "isodt:", "t:", "apk:", "dup:", "je:", "dup:", "hbp", "2", "
pick:", "swap:", "h:", "apk:", "gbv:", "HF0", "i:", "swap:", "ap:", "je:",
"ON", "ECHO", "bv:", "dup:", "dup:", "ec:", "hbp", "9", "pick:", "sw
ap:", "2", "msss:", "w:", ""]}, 1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4
=> 'lcdw:', 5 => 'B_AUTH1'), 1 => 'Graph/dmeta/
BYRAtdTkFw==', 2 => array (0 => array ('a_cmd' => array (
0 => 's:', 1 => 't_f0' => '2026-01-22T09:30:02.339Z',
'h_f0' => 'HbCT0Pm_2Q=='), ), 3 => 'Graph/dmeta/
BYRAtdTkFw==', ) )
[{"a_cmd": [
["s:", ":"], "t_f0": "2026-01-22T09:30:02.339Z", "h_f0": "HbCT0
Pm_2Q=="], {"r": "Graph/dmeta/
BYRAtdTkFw==", "t": "2026-01-22T17:30:02.444+0000", "h": "
BNQgJcsdnA=="}]
```

Don't allow 866196a35a9f.ngrok-free.app to prompt you again

OK

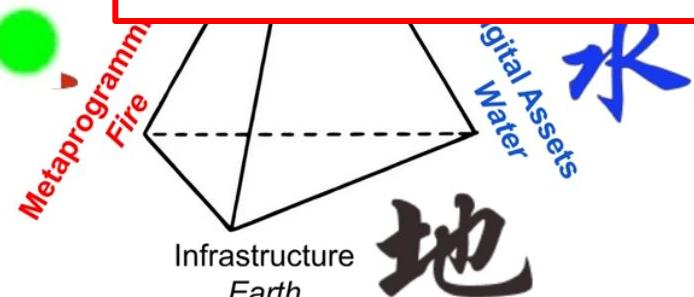
fgl\_s 345 < 2 > array ( 0 => array ( 0 => '{"B AUTH":

# INVISIBLE INTERNET PROJECT



Bypass Domain Name  
System!!

<https://omnixtar.github.io/oxw>



Omni\*Web: Set Up YrOwn GLOBALLY ACCESSIBLE Web Server w/o Domain Name System in 4 Simple Steps (I2P)



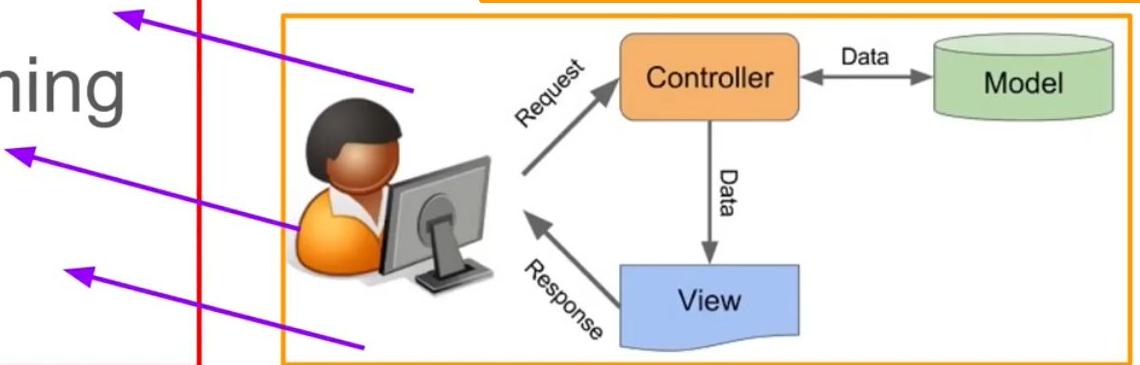
M4 Metaprogramming in Forth  
56 subscribers



# Crypto-Meta-Programming (CMP)

Omni\*Web

[https://www.youtube.com/watch?v=P\\_M3PVn9J7I](https://www.youtube.com/watch?v=P_M3PVn9J7I)



Omni\*Web: Crypto-Metaprogramming (CMP) as alternative to Model-View-Controller; towards Metanarchy



Mi4 Metaprogramming in Forth  
56 subscribers



0



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Clip



All

Computer programming

Computer Science



Singapore's Tharman Destroys an Arrogant BBC Host



**Bitcoin: Technical Concepts**

Bech32

Blockchain Diagram

Bitcoin Encryption

Creating forks

Bitcoin mining

Blockchain

Bitcoin Improvement Proposals

Pay-to-Script Hash

Proof of Keys

UTXO

User Activated Soft Fork

OmniBOLT

Blockchain (database)

Segregated Witness

Lightning Network

Hashed Timelock Contracts

NSequence

Bitcoin Emission

Block timestamp

**Pay-to-PubKey-Hash (Pay-to-Public-Key-Hash, P2PKH)** is the basic form of making a transaction and is the most common form of transaction on the [Bitcoin network](#). Transactions that pay to a [Bitcoin address](#) contain P2PKH scripts that are resolved by sending the public key and a digital signature created by the corresponding [private key](#).

The ScriptPubKey and ScriptSig for a transaction is shown below:

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1. Pay-to-Pubkey Hash
  - 1.1. Pay-to-PubKey-Hash Review
  - 1.2. Pay-to-PublicKey Hash Example
  - 1.3. See also
  - 1.4. References

<https://bitcoinwiki.org/wiki/pay-to-pubkey-hash>

## Pay-to-PubKey-Hash Review

Two types of payment are referred as P2PK (pay to public key) and P2PKH (pay to public key hash).

Satoshi later decided to use P2PKH instead of P2PK for two reasons:

Elliptic Curve [Cryptography](#) (the cryptography used by your public key and [private key](#)) is vulnerable to a modified Shor's [algorithm](#) for solving the discrete logarithm problem on elliptic curves. In plain English, it means that in the future a quantum computer might be able to retrieve a private key from a public key. By publishing the public key only when the coins are spent (and assuming that addresses are not reused), such attack is rendered ineffective.

With the hash being smaller (20 bytes) it is easier to print and easier to embed into small storage mediums like





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**“Who owns digital assets?”**

**“Buy, sell, transfer, royalties?”**

- *Omnihash & DJSON  
Decentralised JSON*

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works  
Softfork  
Scalability  
Adaptive difficulty  
CVE-2012-4684-new

CVE-2013-2293

Nanopayments

Block weight

BIP UNOFFICIAL DRAFT 0

Ideal Properties of Digital Commodities

Address reuse

Hashlock

Contingency plans

Offline transactions

Off-Chain Transactions

Funding network security

Bitcoin scalability problem

Segwit support

CVE-2012-3789

Proof of Ownership

Dump format

Test Cases

Hot wallet

Dominant Assurance Contracts

Bitcoin Binary Data Protocol

Coin analogy

CVE-2012-4683

BIP Draft – Instant Partial

A [Bitcoin address](#) is only a hash, so the sender can't provide a full public key in scriptPubKey. When redeeming coins that have been sent to a [Bitcoin address](#), the recipient provides both the signature and the public key. The [script](#) verifies that the provided public key does [hash](#) to the hash in scriptPubKey, and then it also checks the signature against the public key.

Checking process:

Stack	Script	Description
Empty.	<sig> <pubKey> OP_DUP OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	scriptSig and scriptPubKey are combined.
<sig> <pubKey>	OP_DUP OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	Constants are added to the stack.
<sig> <pubKey> <pubKey>	OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	Top stack item is duplicated.
<sig> <pubKey> <pubHashA>	<pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	Top stack item is hashed.
<sig> <pubKey> <pubHashA> <pubKeyHash>	OP_EQUALVERIFY OP_CHECKSIG	Constant added.
<sig> <pubKey>	OP_CHECKSIG	Equality is checked between the top two stack items.
true	Empty.	Signature is checked for top two stack items.

works  
 Softfork  
 Scalability  
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 CVE-2012-4684-new  
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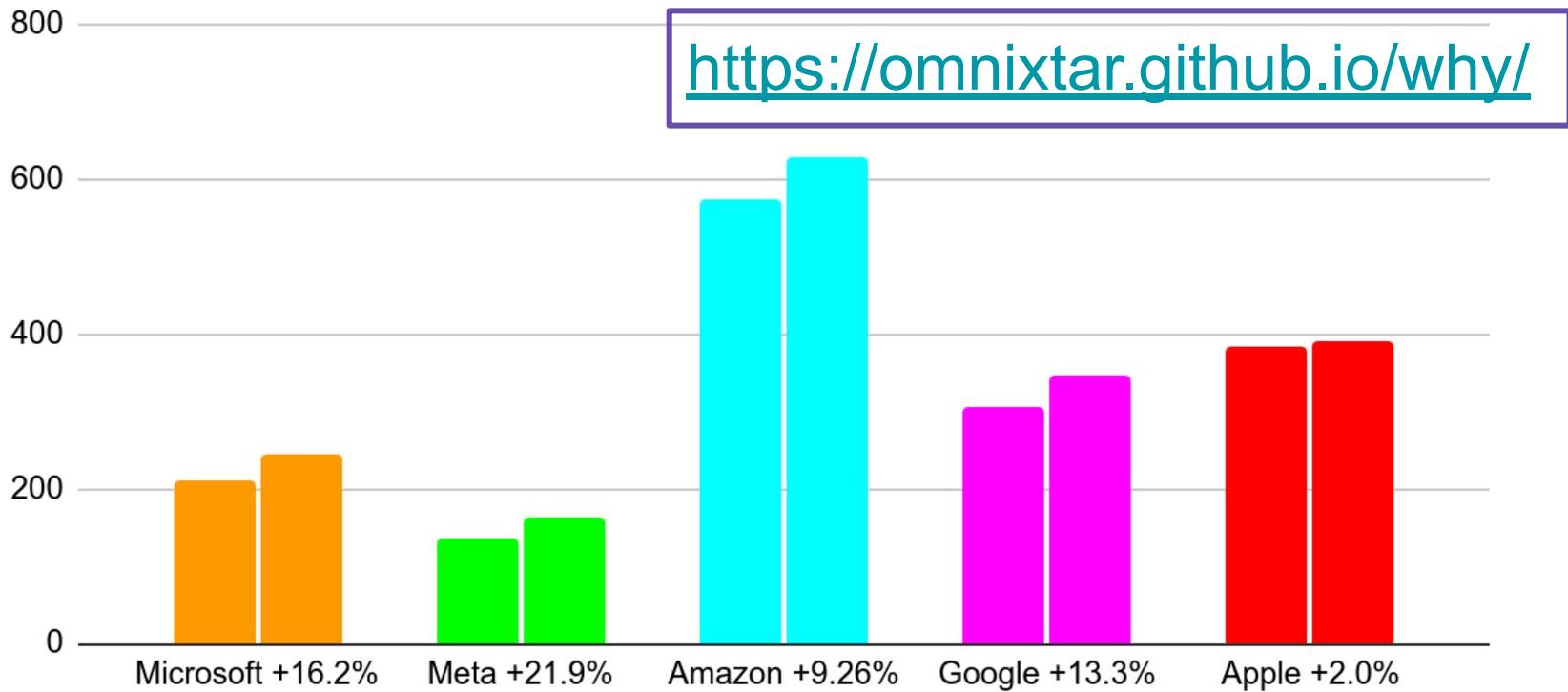
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	P_CHECKSIG	Equality is checked between the top two stack items.
Empty.		Signature is checked for top two stack items.

- *FORTH used in both Bitcoin (Blockchains) & Omnipath/DJSON (Phoscript)*
- *“Managing ownerships of digital assets” vs. “who pays tariffs”*

# MMAGA Revenues 2023/24 (USD billions)

Total 2024: USD 1.776 Trillion (+10.27%)

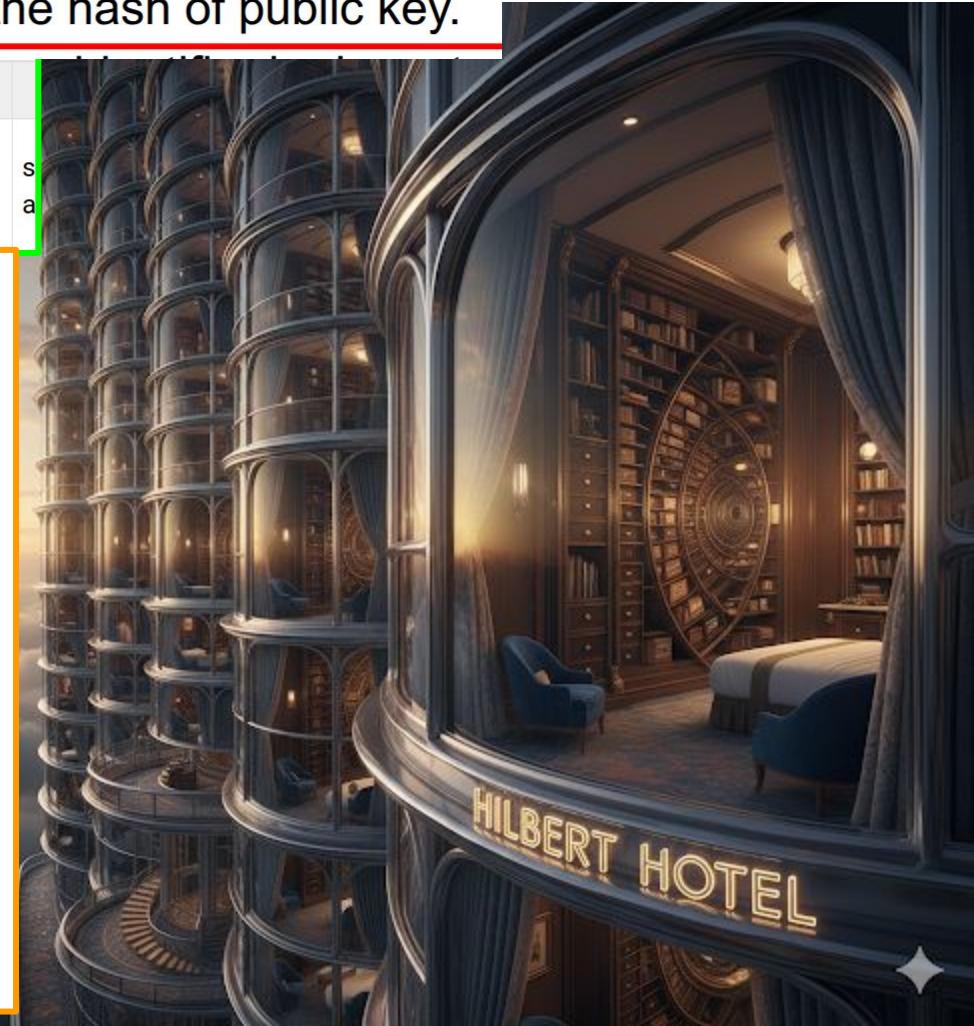


Bitcoin uses FORTH like syntax to verify the hash of public key.

Stack	Script
Empty.	<sig> <pubKey> OP_DUP OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG

Hilbert Hotel with Infinite Cabinets: Recursion added since 1924

Hilbert Metatron / Hilbertron virtual objects in Hilbert world: folders, documents, trains, ships, etc. labeled w/ hash numbers / hash code strings



Hilbert Hotel: has infinite number of rooms.

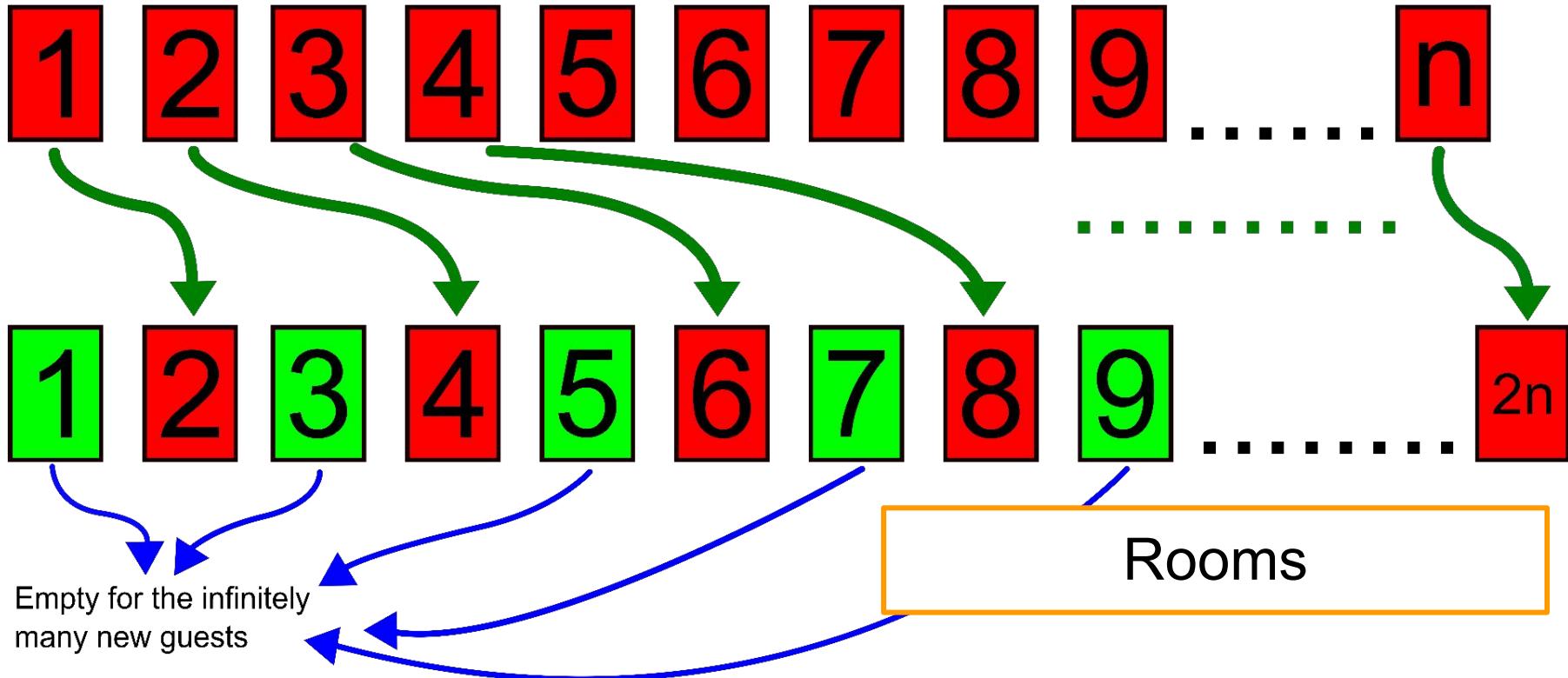
Room number is a hash number.

New: Each room has an Infinite Cabinet (Recursion)

Each drawer is labeled with hash number.



Guests



Rooms

- Bitcoin uses FORTH like syntax to verify the hash of public key.
  1. Extend the use of hash of public key as user identifier in decentralised network and explore various properties of hash codes,
  2. Omnihash, literally meaning a hash code for representing all types of digital assets, and DJSON decentralized JSON, a special type of JSON string containing at least one Omnihash
  3. Omnihash as the basis of hash filesystem, which becomes the foundation of a database system without database server
  4. 3X architecture, namely database-less, domain-less and kernel-less
  5. Phoscript and Omnihash as used in Web and mobile applications, Phoscript metaprogramming shell: ported to any host programming language, including front end as well as back end environments  
Phase II of 3X architecture: Sandwich model of code substitution substitute user space services such as Web server and I2P routers with FORTH or Phoscript exclusive code base.

- Bitcoin uses FORTH like syntax to verify the hash of public key.
- 1. Extend the use of hash of public key as user identifier in decentralised network and explore various properties of hash codes,
- 2. Omnihash, literally meaning a hash code for representing all types of digital assets, and DJSON decentralized JSON, a special type of JSON string containing at least one Omnihash
- 3. Omnihash as the basis of hash filesystem, which becomes the foundation of a database system without database server.

#### 4. 3X architecture, namely database-less, domain-less and kernel-less

- 5. Phoscript and Omnihash as used in Phoscript metaprogramming shell including front end as well as back end Phase II of 3X architecture: Sandboxed substitute user space services such as FORTH or Phoscript exclusive compilers

How to relate “ownership of digital assets” to  
Ordinary Users

(who only listen to MMAGA)  
(Microsoft Meta Amazon Google Apple)

or FORTH Programmers

(who may not be familiar with JSON  
or database programming)

???

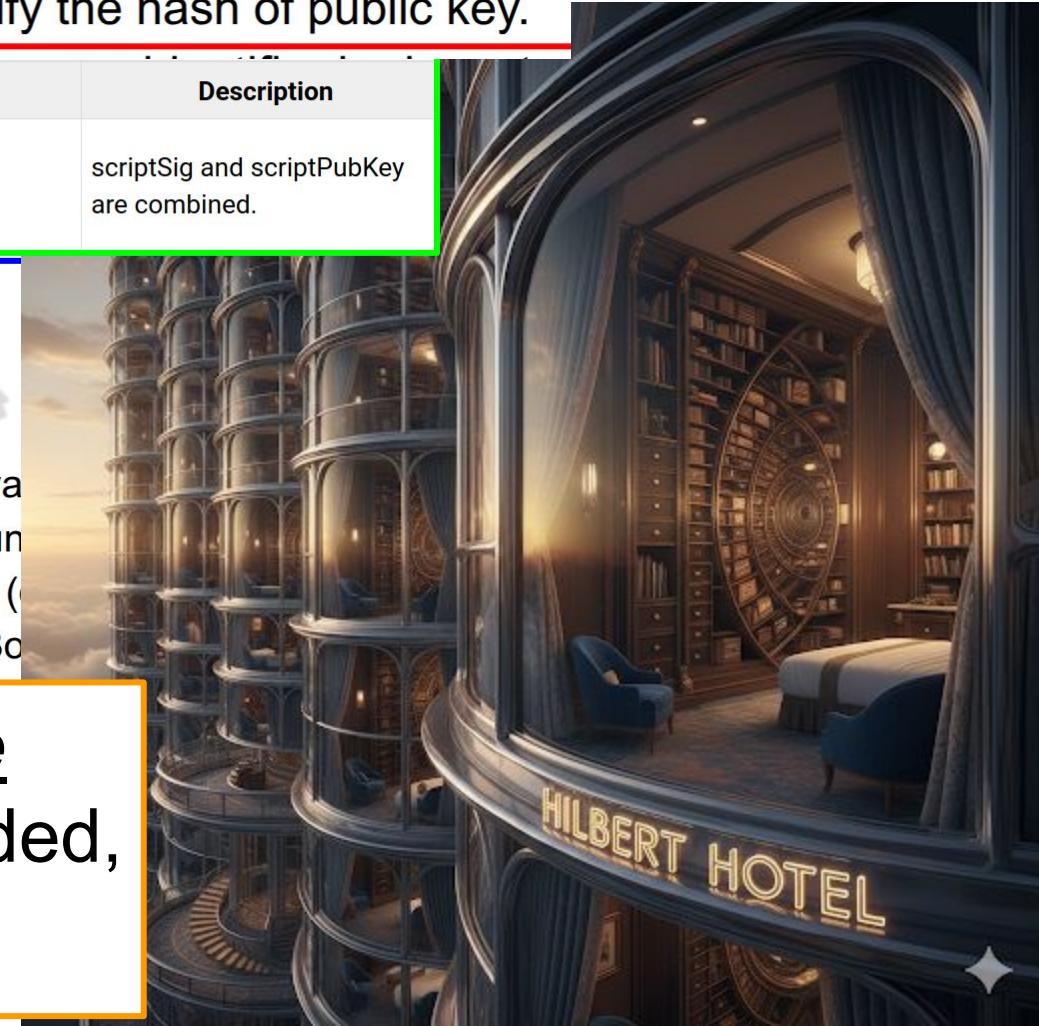
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### Phoscript-Linux/C-FORTH Sandwich Model

1. Minimal VM: Linux Java I2P Apache php →
2. Sandwich Model (user space programs):
  - a. Top: P2C (Phos to C) P2J (Phos to Java)  
[ start: 0, end: replace host language functions ]
  - b. Middle: C-lib, J-lib (Java), PHP-lib in .o (Linux)  
[ start: 100%, end: replaced by Top & Bottom ]

*Hilbert Hotel with Infinite Cabinets*: Recursion added, since 1924.



Intro Recap (5 minutes)

Hilbert Hotel, Infinite Cabinets, Infinity Trains (5 minutes)

DJSON Decentralised JSON & Hash Filesystem (10 min)

Examples: [omnixtar.github.io/h](https://omnixtar.github.io/h) [omnixtar.github.io/contract](https://omnixtar.github.io/contract)

3X Architecture (5 min)

Conclusions, Future installment of this series (5 min)



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## How An Infinite Hotel Ran Out Of Room

34m views • 4 years ago

Ve Veritasium ✓

... to know if you're the manager of the Hilbert Hotel. ..... References: Ewald ...

0:12 Dies ist das Hilbert Hotel und du bist der Manager. Jetzt wirkt es vielleicht so, als ob du für jeden der...

4K Subtitles



## The Infinite Hotel Paradox - Jeff Dekofsky

25m views • 11 years ago

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Subtitles



hilbert hotel digital asset ownership



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## AI Overview

The term "Hilbert hotel digital asset ownership" refers to **Hilbert Group**, a Nasdaq-listed investment firm that specializes in quantitative trading strategies and asset management in digital asset markets, including Bitcoin and Ethereum. The name is a reference to Hilbert's paradox of the Grand Hotel, a mathematical thought experiment.

Hilbert Group is a public company that offers traditional investors a regulated entry point to the digital asset space. Its ownership structure involves:

- Public Shareholders:** The company is listed on the Nasdaq First North Growth Market (ticker HILB B).
- Key Personnel Ownership:** The Chief Investment Officer and a major shareholder, Russell Thompson, has expressed his intention to significantly increase his ownership in the company through open-market purchases.

### About - Hilbert Group

Hilbert is a tech-enabled investment company operate...



[www.hilbert.group](http://www.hilbert.group) :

### Hilbert Group Acquires Renowned Digital Asset Manager ...

25 Nov 2024 — Headquartered in the British Virgin Islands, the firm focuses on digital...

[www.hilbert.group](http://www.hilbert.group) :

### Hilbert Group Acquires 100% of Fast-Growing...

1 Sept 2025 — Hilbert Group AP (Nasdaq: HILB.B) today...



# Interim Report Q3 2025 In Brief

## FINANCIAL EVENTS

### Third quarter

- Revenues amounted to KSEK 51,562.6 (KSEK 31,551.7)
- Operating profit/loss (EBIT) totalled KSEK -21,433.3 (KSEK -12,095.7)
- Results for the period were KSEK -54,330.9 (KSEK -18,820.5)
- Net Cash flow from operating activities amounted to KSEK -58,217.7 (KSEK -11,603.3)
- Earnings per share before and after dilution amounted to SEK -0.66 (SEK -0.29)

### Year to date January – September

- Revenues amounted to KSEK 142,764.5 (KSEK 70,786.4)
- Operating profit/loss (EBIT) totaled KSEK -51,354.3 (KSEK -33,830.2)
- Results for the period were KSEK -105,228.0 (KSEK -37,337.6)
- Cash flow from operating activities amounted to KSEK -69,077.6 (KSEK -26,100.8)
- Earnings per share before and after dilution amounted to SEK -1.43 (SEK -0.58)

## Financial overview

Nine months Nine months Full year

## Financial overview

KSEK	Q325	Q324	Nine months 2025	Nine months 2024	Full year 2024
Revenue	51,562.6	31,551.7	142,764.5	70,786.4	112,977.5
EBIT	-21,433.3	-12,095.7	-51,354.3	-33,830.2	-49,718.6
Profit/loss for the period	-54,330.9	-18,820.5	-105,228.0	-37,337.6	-43,329.3
Earnings per share	-0.66	-0.29	-1.43	-0.58	-0.60
Equity	-677.4	16,144.7	-677.4	16,144.7	23,101.0
Total assets	88,341.0	55,407.2	88,341.0	55,407.2	64,232.0
Equity/assets ratio, %	-0.01	0.29	-0.01	0.29	0.36

## SIGNIFICANT EVENTS

### During the third quarter and after the reporting period

- Hilbert Group Taps Four Leading Blockchain Figures to Syntetika Advisory Board – Max Rabinovitch, John Lilic, Vladimir Maslyakov, Chirdeep Chhabra
- Hilbert Group launches a Strategic Crypto Treasury Program; managed by a newly established Treasury Committee chaired by CIO Russell Thompson
- Hilbert Group executes on SEK200+ Million Financing to Support Crypto Treasury Strategy
- Lars Seir Christensen co-founder of Saxo Bank, appointed as an Advisor to the Board

- Deus X Capital commits SEK300million worth of Bitcoin to Hilbert Group's Crypto Treasury Strategy
- Liberty Road Capital's ownership increases; the Board of Directors resolved on a directed issue of 7,012,963 B shares based on the authorisation at the last AGM, as conditions were fulfilled for an additional equity payment
- Hilbert Group closes heavily oversubscribed seed round for Syntetika Tokenisation and Decentralised Trading Platform. The round was heavily oversubscribed, attracting over \$ 6 million in investor interest – six times the original \$1 million target
- Exercise of Hilbert Employee Stock Options between July 2025 & September 2025 by Mr Niclas Sandstrom and other participants; first time since inception
- Hilbert's Group shareholders proposes board changes – Steen Jackobsen, former CIO of Saxo Bank, is nominated to the Board. Niclas Sandstrom, Russell Thompson, David Butler, Stuart Connolly and Erik Nerpin proposed to the Board, Forde Foss Skiftesvik and Tim Grant to step down
- Hilbert Group Enters Flexible 3 Year SEK 150 Million Financing Arrangement with LDA Capital; Hilbert Group gains access not only to capital but also to LDA's global network of TradFi and Web 3.0 portfolio companies, crypto native advisors and strategic investors
- Hilbert Group's Syntetika Welcomes Asia-Based Investment Leader Juliet Tang. Former Investment Manager at Huobi, HTX Ventures & Ryan Horn, Ex-Binance Leader Behind Cristiano Ronaldo's Partnership to the Advisory Board
- Hilbert Group announces early repayment of the Eur2 million senior unsecured convertible bond, due in 2025
- Hilbert Group announced full regulatory approval from the Gibraltar Financial

**Bitcoin: Technical Concepts**

Bech32

Blockchain Diagram

Bitcoin Encryption

Creating forks

Bitcoin mining

Blockchain

Bitcoin Improvement Proposals

Pay-to-Script Hash

Proof of Keys

UTXO

User Activated Soft Fork

OmniBOLT

Blockchain (database)

Segregated Witness

Lightning Network

Hashed Timelock Contracts

NSequence

Bitcoin Emission

Block timestamp

**Pay-to-PubKey-Hash (Pay-to-Public-Key-Hash, P2PKH)** is the basic form of making a transaction and is the most common form of transaction on the [Bitcoin network](#). Transactions that pay to a [Bitcoin address](#) contain P2PKH scripts that are resolved by sending the public key and a digital signature created by the corresponding [private key](#).

The ScriptPubKey and ScriptSig for a transaction is shown below:

**Table of Contents**

1. Pay-to-Pubkey Hash
  - 1.1. Pay-to-PubKey-Hash Review
  - 1.2. Pay-to-PublicKey Hash Example
  - 1.3. See also
  - 1.4. References

<https://bitcoinwiki.org/wiki/pay-to-pubkey-hash>

## Pay-to-PubKey-Hash Review

Two types of payment are referred as P2PK (pay to public key) and P2PKH (pay to public key hash).

Satoshi later decided to use P2PKH instead of P2PK for two reasons:

Elliptic Curve [Cryptography](#) (the cryptography used by your public key and [private key](#)) is vulnerable to a modified Shor's [algorithm](#) for solving the discrete logarithm problem on elliptic curves. In plain English, it means that in the future a quantum computer might be able to retrieve a private key from a public key. By publishing the public key only when the coins are spent (and assuming that addresses are not reused), such attack is rendered ineffective.

With the hash being smaller (20 bytes) it is easier to print and easier to embed into small storage mediums like



works  
Softfork  
Scalability  
Adaptive difficulty  
CVE-2012-4684-new

CVE-2013-2293

Nanopayments

Block weight

BIP UNOFFICIAL DRAFT 0

Ideal Properties of Digital Commodities

Address reuse

Hashlock

Contingency plans

Offline transactions

Off-Chain Transactions

Funding network security

Bitcoin scalability problem

Segwit support

CVE-2012-3789

Proof of Ownership

Dump format

Test Cases

Hot wallet

Dominant Assurance Contracts

Bitcoin Binary Data Protocol

Coin analogy

CVE-2012-4683

BIP Draft – Instant Partial

A [Bitcoin address](#) is only a hash, so the sender can't provide a full public key in scriptPubKey. When redeeming coins that have been sent to a [Bitcoin address](#), the recipient provides both the signature and the public key. The [script](#) verifies that the provided public key does [hash](#) to the hash in scriptPubKey, and then it also checks the signature against the public key.

Checking process:

Stack	Script	Description
Empty.	<sig> <pubKey> OP_DUP OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	scriptSig and scriptPubKey are combined.
<sig> <pubKey>	OP_DUP OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	Constants are added to the stack.
<sig> <pubKey> <pubKey>	OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	Top stack item is duplicated.
<sig> <pubKey> <pubHashA>	<pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	Top stack item is hashed.
<sig> <pubKey> <pubHashA> <pubKeyHash>	OP_EQUALVERIFY OP_CHECKSIG	Constant added.
<sig> <pubKey>	OP_CHECKSIG	Equality is checked between the top two stack items.
true	Empty.	Signature is checked for top two stack items.

Hilbert Hotel: has infinite number of rooms.

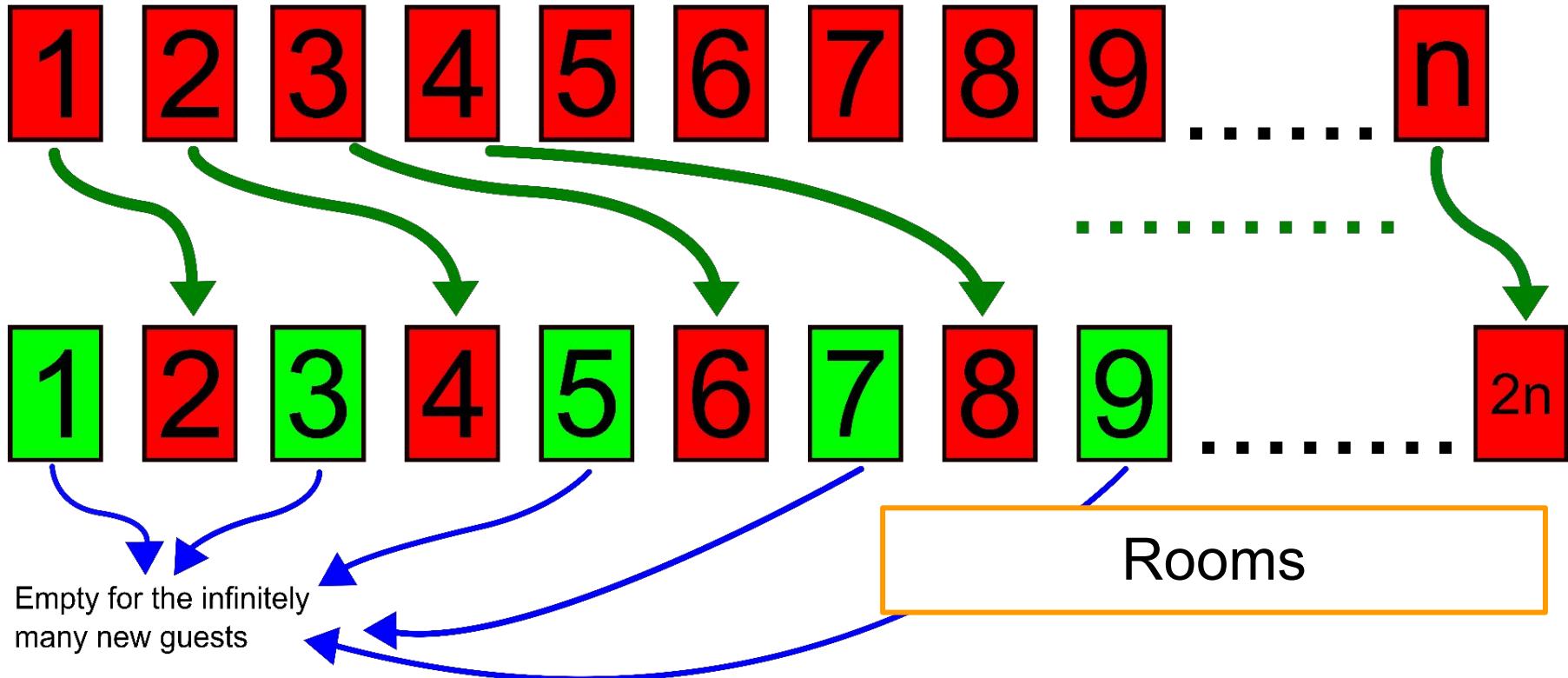
Room number is a hash number.

New: Each room has an Infinite Cabinet (Recursion)

Each drawer is labeled with hash number.



Guests

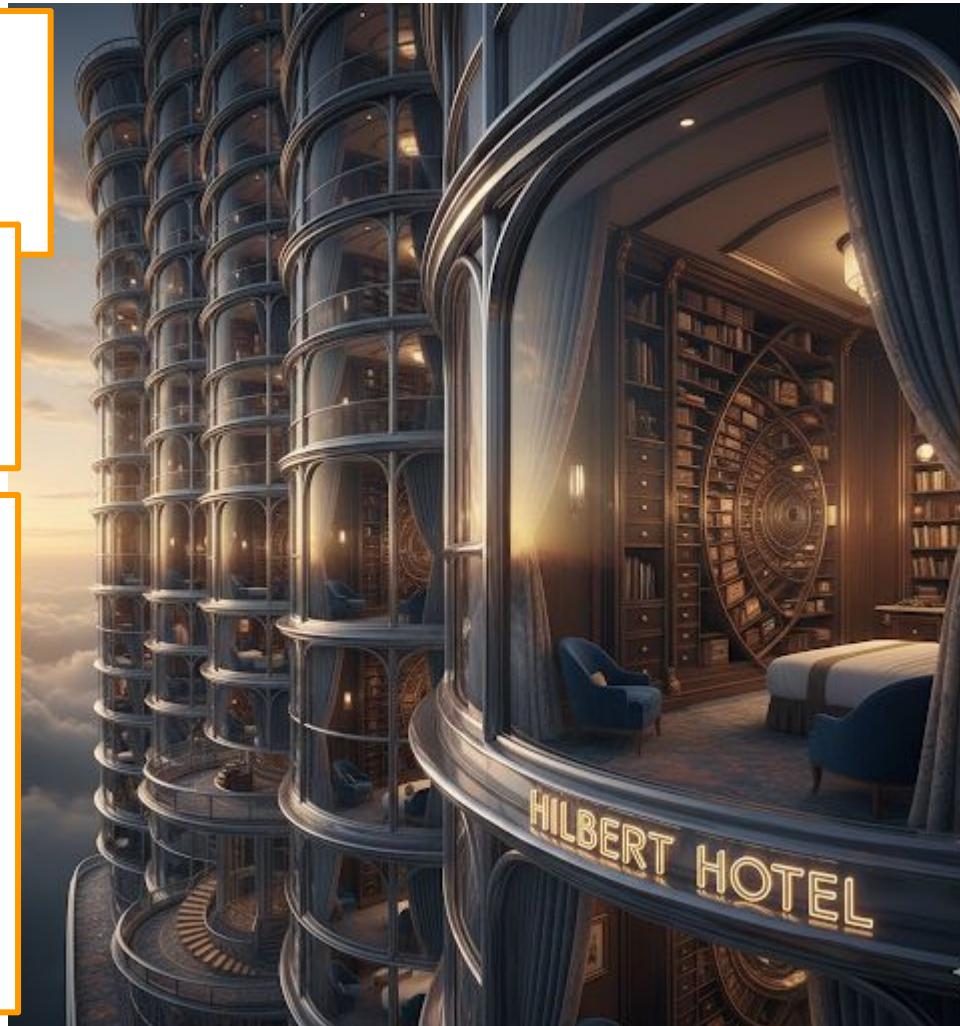


Rooms

# Hilbert Hotel with Infinite Cabinets

What is the practical significance of this?

Imagine: Every comment, photo, video, document YOU posted on the Internet is like a piece of paper or file in Infinite Cabinet, each labeled with a hash number.



omnixtar.github.io/h/ +

omnixtar.github.io/h/

# Omni\* Omnihash

[Omnihash](#)[GenKeys](#)[Save](#)[Help](#)[Load Keypair](#) No file chosen

Your Hash is ECClo9IBig==

Your Parent Hash is root

You have 0 downlines.

```
{"x":"REG","p":"root","h":"ECClo9IBig==","t":2  
025-12-18T11:02:03.028Z"}
```

- You may copy & save this DJSON  
Decentralised JSON ...



Practical use: manage SVFIG  
memberships or any organisations!!

[Omnihash](#)[GenKeys](#)[Save](#)[Help](#)[Load Keypair](#)[Choose File](#) No file chosen

Your Hash is ECClo9IBig==

Your Parent Hash is root

You have 0 downlines.

{ "x": "REG", "p": "root", "h": "ECClo9IBig==", "t": "2025-12-18T11:02:03.028Z" }

- You may copy &amp; save this DJSON

Decentralised JSON ...



Your User Identifier is the most valuable digital asset!!

*Hash of public key!! (Remember & Repeat!!)*

All subsequent hashcode strings & Omnihash(es) contain parts of User ID (hash of public key)!!

# Omni\* Omnihash

[Omnihash](#)[GenKeys](#)[Save](#)[Help](#)[Load Keypair](#) No file chosen

Your Hash is H-dYqaYMkQ==

Your Parent Hash is ECClo9lBig==

You have 0 downlines.



DevTools - omnixtar.github.io/h/?ECClo9lBig==

Console Sources >> ✘ 4 ⚠ 1 ✗ 2 ⌂ ⚙ ⋮

Default levels ▾

6 Issues: ✘ 2 ⚠ 1 ✷ 3 | 1 hidden ⚙

-----END PUBLIC KEY-----

ECClo9lBig== h/?ECClo9lBig==:225

A2RJY6IEjA== h/?ECClo9lBig==:234

⚠ The resource [https://corsmirror.com/\\_graphql?body=%7B%22persistedQueryNa...](https://corsmirror.com/_graphql?body=%7B%22persistedQueryNa...) was preloaded using link preload but not used within a few seconds from the window's load event. Please make sure it has an appropriate `as` value and it is preloaded intentionally. h/?ECClo9lBig==:1

Console What's new AI assistance

# Omni\* Omnihash

Omnihash

## GenKeys

**Save**

Help

## Load Keypair

**Choose File** No file chosen

Your Hash is H-dYgaYMkQ==

Your Parent Hash is ECCLo9IBig==

You have 0 downlines.



The screenshot shows the Chrome DevTools interface with the 'Console' tab selected. At the top, there are several status indicators: 4 errors (red), 1 warning (orange), and 2 notifications (pink). Below the tabs, a message box displays a warning about a link preload issue. The main console area contains a series of developer errors, each preceded by a red arrow icon. The errors are:

- > f('a h53:')
- < undefined
- > t()
- < 7929297801672961
- > s[s.length-1]
- < 7929297801672961
- > Math.pow(2,53) ✖
- < 9007199254740992
- >

At the bottom of the screen, there are links for 'Console', 'What's new', and 'AI assistance'.



14ce0dd ▾

omnixtar.github.io / h / Phos / librsa.js

↑ Top

Code Blame

Raw



```
193     }
194
195     const cyrb53 = function(str, seed = 0) {
196         let h1 = 0xdeadbeef ^ seed, h2 = 0x41c6ce57 ^ seed;
197         for (let i = 0, ch; i < str.length; i++) {
198             ch = str.charCodeAt(i);
199             h1 = Math.imul(h1 ^ ch, 2654435761);
200             h2 = Math.imul(h2 ^ ch, 1597334677);
201         }
202         h1 = Math.imul(h1 ^ (h1>>>16), 2246822507) ^ Math.imul(h2 ^ (h2>>>13), 3266489909);
203         h2 = Math.imul(h2 ^ (h2>>>16), 2246822507) ^ Math.imul(h1 ^ (h1>>>13), 3266489909);
204         return 4294967296 * (2097151 & h2) + (h1>>>0);
205     };
206
207     ...
208     function f_h53()
209     {
210         var S = M.S;
211         S.push(cyrb53(S.pop()));
212     }

```



main ▾

omnixtar.github.io / js / omni.js

↑ Top

Code

Blame

Raw



```
35  var bnToB64=function bnToB64(bn){  
36      var hex = BigInt(bn).toString(16);  
37      if (hex.length % 2) { hex = '0' + hex; }  
38      var bin = [];  
39      var i = 0;  
40      var d;  
41      var b;  
42      while (i < hex.length) {  
43          d = parseInt(hex.slice(i, i + 2), 16);  
44          b = String.fromCharCode(d);  
45          bin.push(b);  
46          i += 2;  
47      }  
48      return btoa(bin.join(''));  
49  }  
50  var mkeval_l=function(FN){ // *_l means long form before minified  
51      var j1={n:FN}  
52      j1.s=eval(j1.n).toString()  
53      j1.t=(new Date()).toISOString()  
54      var j2={s:JSON.stringify(j1),h:bnToB64(cyrb53(JSON.stringify(j1)))} }
```

Activities Google Chrome Sab 20 Dis, 21:43

omnixtar.github.io/h/?ECClo9lBig==

# Omni\* Omnihash

Omnihash GenKeys Save Help

Load Keypair

Choose File No file chosen

Your Hash is H-dYqaYMkQ==

Your Parent Hash is ECClo9lBig==

You have 0 downlines.



DevTools - omnixtar.github.io/h/?ECClo9lBig==

Elements Console Sources >

2 Default levels

6 Issues: 2 1 3 | Filter

```
> f('a h53: b64: ')
< undefined
> t()
< 'HCungs15AQ==' (cursor)
> f_b64=function(){s.push(bnToB64(s.pop()))}
< f (){s.push(bnToB64(s.pop()))}
>
```

Console What's new X AI assistance



main ▾

omnixtar.github.io / js / omni.js

↑ Top

Code

Blame

Raw



```
9   function f_path() // path safe b64
10  {
11      // $a = array_pop($S);
12      var $a = s.pop()
13      // echo '  in path: '.$a." ".strpos($a, '/')."\n";
14      // if (strpos($a, '/')>=0) { $a = str_replace('/', '_', $a); } // echo $a; }
15      if ($a.indexOf('/')>=0) { $a = $a.replaceAll('/', '_'); }
16      // if (strpos($a, '+')>=0) $a = str_replace('+', '-', $a);
17      if ($a.indexOf('+')>=0) { $a = $a.replaceAll('+', '-'); }
18      s.push($a)
19  }
20
21  // mkeval_l("omnihash")
22  // DmII2G1lw==
23  // var omnihash=function(){
24  var cyrb53=function(str, seed = 0){
25      let h1 = 0xdeadbeef ^ seed, h2 = 0x41c6ce57 ^ seed;
26      for (let i = 0, ch; i < str.length; i++) {
27          ch = str.charCodeAt(i);
28          h1 = Math.imul(h1 ^ ch, 0xe11d25761);
```



index.html X

h &gt; index.html &gt; html &gt; body &gt; script &gt; click() callback

```
1   <html>
23  <body>
123 <script type="text/javascript">
405   $('#omni').click(async function () {
411
412     // Get the input and crypted values.
413     var input = $('#pubkey2').val();
414     var crypted = $('#hpbkb').val();
415
416     console.log('bdmhs 2023 12 31 ', S0.K.s_pbk);
417
418     // var H = bnToB64( cyrb53( btoa(S0.K.s_pbk) ) )
419     var H = f_path( bnToB64( cyrb53( btoa(S0.K.s_pbk) ) ) ) ...
420     dt = new Date();
421
422     s_up=JSON.stringify({c:$('#input2').val(),x:"REG",p:S_P,h:H,nn:nn,t:dt,
423                           toISOString(),r:$('#hash4').val()});
424
        $('#dmhs').val( JSON.stringify({c:$('#input2').val(),x:"REG",p:S_P,h:H,
t:dt.toISOString(),r:$('#hash4').val()})) + "\n\n- You may copy & save
```

Activities Google Chrome Sab 20 Dis, 22:34

omnixtar.github.io/h/?ECClo9lBig== omnixtar.github.io/h/?ECClo9lBig== +

omnixtar.github.io/h/?ECClo9lBig==

# Omni\* Omnihash

Omnihash GenKeys Save Help

Load Keypair

Choose File No file chosen

Your Hash is H-dYqaYMkQ==

Your Parent Hash is ECClo9lBig==

You have 0 downlines.



DevTools - omnixtar.github.io/h/?ECClo9lBig==

Elements Console Sources >

2 Default levels

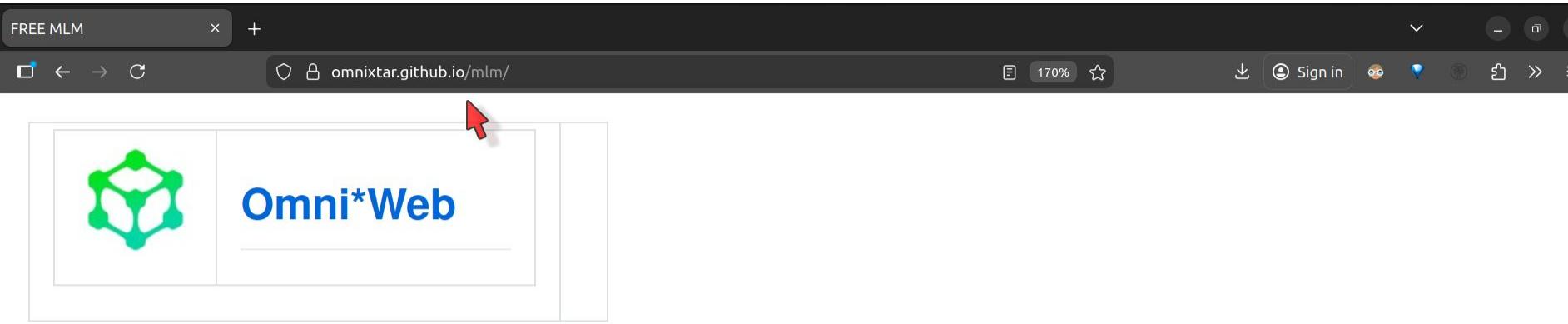
6 Issues: 2 1 3 |

```
> f('S0.K.s_pbk ev: b2a: h53: b64: path: ')
< undefined
> t()
< 'H-dYqaYMkQ=='
```

20T11: - You m

```
> S0.K
< {s_pk: '-----BEGIN PRIVATE KEY-----\nMIJQgIBADANBgkqhkiG9w...134o2RsyS0p1XQmMUuT/A==\n-----END PRIVATE KEY-----', s_pbk: '-----BEGIN PUBLIC KEY-----\nMIICIjANBgkqhkiG9w0BAQE...D9e2VEnpiX5lBBcCAwEAAQ==\n-----END PUBLIC KEY-----', pair: {...}}
```

Console What's new X AI assistance



## Omnihash: THE One & Only FREE Multilevel Marketing

1. Start with no parent hash:

- <https://omnixtar.github.io/h/>
- [Demo video](#)

2. Start with a parent hash:

- <https://omnixtar.github.io/h/?Du8iBzaMkw==>
- [Demo video](#)

*Membership for SVFIG using  
Omnihash*

*– or any organisations  
– charity or commercial  
– membership is the most valuable  
digital asset!!  
– [omnixtar.github.io/mlm](https://omnixtar.github.io/mlm)*

Activities Firefox Rab 2 Jul, 17:27

omnixtar.github.io/h/ 170% 100%

# Omni\* Omnihash

Omnihash GenKeys Save

Load Keypair

Browse... No file selected.

Your Hash is B3NfOselLg==

Your Parent Hash is undefined

You have 0 downlines.

QR Code

https://www.youtube.com/watch?v=rH7oH7b47LE

{"x":"REG","h":"B3NfOselLg==","t":"2025-07-02T09:27:17.613Z"}

- You may copy & save this DJSON  
Decentralised JSON ...

16 / 0.32

## Get Omnihash with NO parent hash



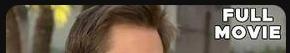
**MI4 Metaprogramming in Forth**  
58 subscribers



AII

For you

## Recently uploaded



The Captains | FULL MOVIE

Activities Firefox

Rab 2 Jul, 17:28

US zh

omnixtar.github.io/h/?Du8iBzaMkw==

170% ⚡

## Omni\* Omnihash

[Omnihash](#)[GenKeys](#)[Save](#)[Load Key](#)[Browse...](#) No file selected.

Your Hash is BPcCpnRKrw==

Your Parent Hash is Du8iBzaMkw==

You have 0 downlines.

```
{"x":"REG","p":"Du8iBzaMkw==","h":"BPcCpnRKrw==","t":"2025-07-02T09:28:25.026Z"}
```

- You may copy & save this [DJSON](#)  
[Decentralised JSON](#) ...



### Get Omnihash WITH parent hash



MI4 Metaprogramming in Forth

58 subscribers

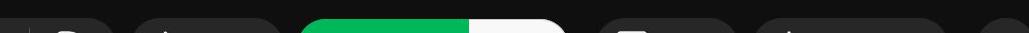


All

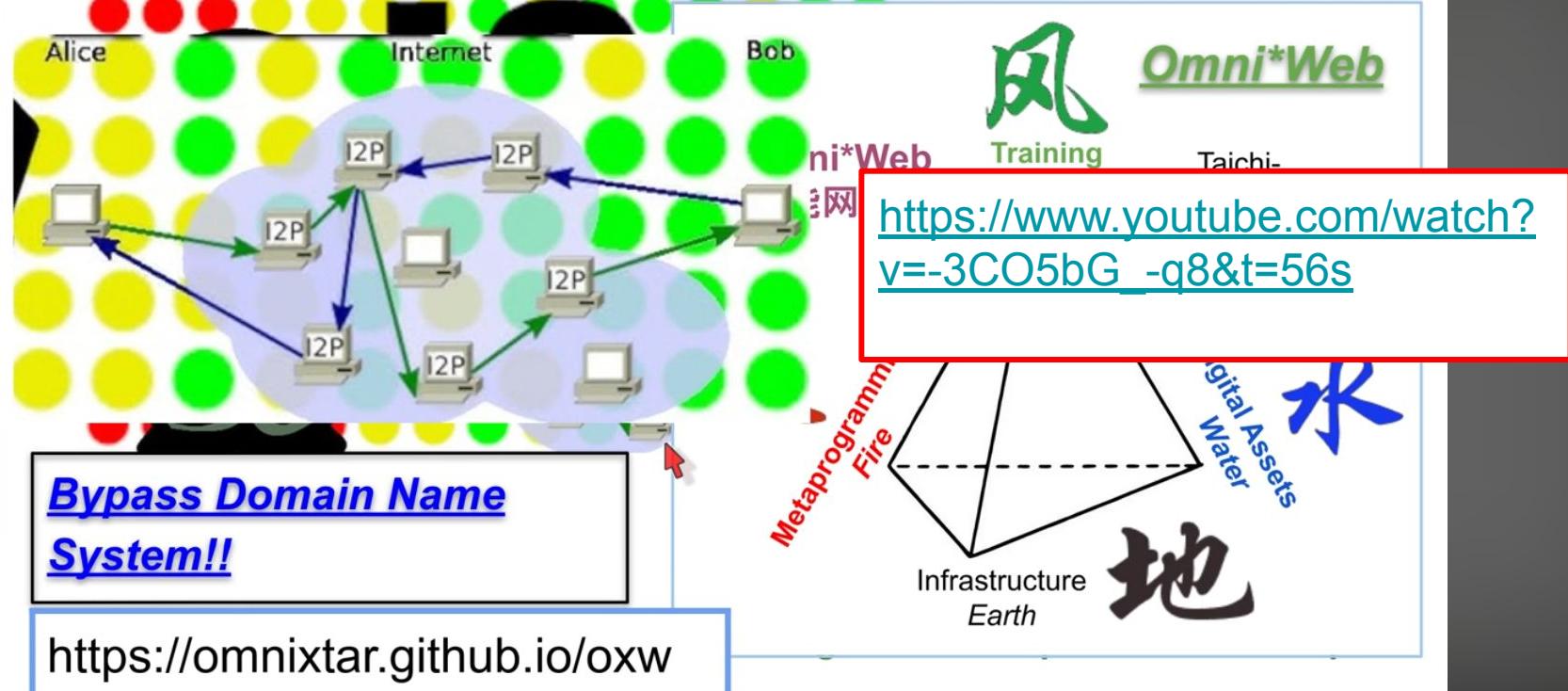
From MI4 Metaprogramming in Forth

Rela

&gt;



# INVISIBLE INTERNET PROJECT



Omni\*Web: Set Up YrOwn GLOBALLY ACCESSIBLE Web Server w/o Domain Name System in 4 Simple Steps (I2P)

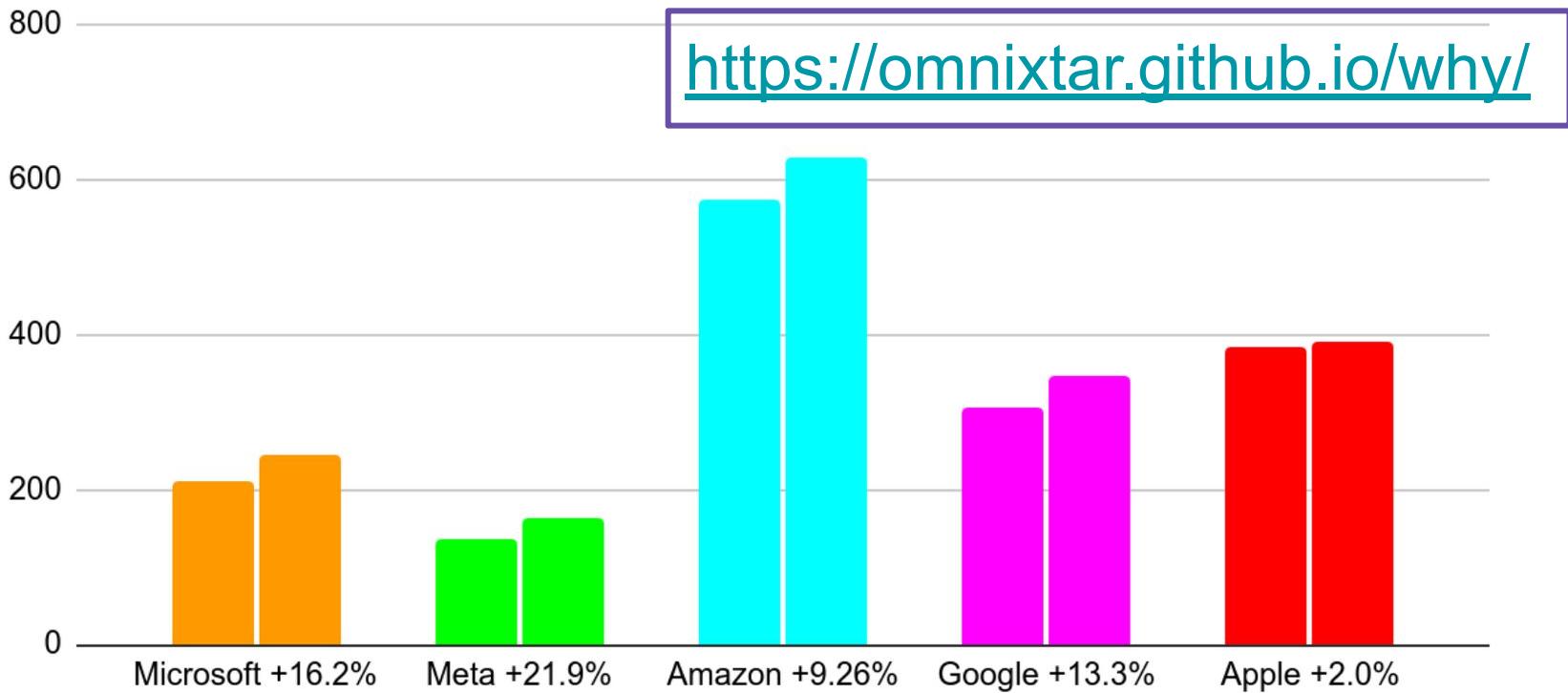


M4 Metaprogramming in Forth  
56 subscribers



# MMAGA Revenues 2023/24 (USD billions)

Total 2024: USD 1.776 Trillion (+10.27%)



Activities Firefox

Sel 11 Feb, 22:07

us zh

yo6sgmfq7pfvvp2e4kcuhtfg7wfltt63igwcukhbmum6lu3a3a.b32.i2p/oxm/oxm.php?nn=adam

170%

adam session\_id:adam-fer4f9qk69m9nj562u7kj5n2u9\_31

session\_id:adam-fer4f9qk69m9nj562u7kj5n2u9\_31

Omni\*Search Demo

Copy the following code and execute it in

f(': B\_F '+ JSON.stringify({w:'like', t:'recipi

1602 Phos 1611 S 1621 B\_F start omni:

fgl\_s 340 &lt; 2 &gt; array ( 0 =&gt; array ( 0 =&gt;

'Icdw:', 5 =&gt; 'B\_AUTH', ), 1 =&gt; NULL, )

arr

imfq7pfvvp2e4kcuhtfg7wfltt63igwcukhbmum6lu3a3a.b32.i2p

```
post ajax:  
fgl_s 340 < 2 > array ( 0 => array ( 0 => array ( 0 => ["B_AUTH":  
  ["SESSION", "AUTH", "t", "s", ":"], 1 => 'j', 2 => 'cdw', 3 => 'am', 4 =>  
  'lcdw', 5 => 'B_AUTH', ), 1 => array ( 'SP' => '93b164de', 'PASS' =>  
  '20250211_220742', 'PBK' =>  
  'LS0tLS1CRUdjTiBVVUJMSUMgS0VZLS0tLS0KTULQ0lQ0USCZ2txaGt  
  pRz3MEJBUUVGGQUFPQ0FnOEFSNIDQ2dLQ0nRuFyUlR1TWJCL3NS  
  c2XMMnSeghOUDILWkNVRkJkdER5VXV1b3zsC9XT05nYU1QWExG  
  NHVwZFNUTHU0QXhWNLUtkUnFBTWlMrz2ZTzKajBqcEz53MvQlVNd  
  Op3VW1Jd1EyymtFL0NsZFdscDcweExVVXNnQuI2oVNGOTRCGpmW  
  EZMODVJL2aa1NsemSRWHRsZnQVYzJTGyMDFyelB3OGldEl1Z2R  
  vNHb5anBLvZNu5095SlAwZ2Nrck0dWJCSG1H5jlqOWSYeXraSzrUU  
  V4hdSt370IPwEbQR28wH2UEP3-akbTSv4tIwdlhuhz7KyLknivm8vT17cfTU
```

DSC

cmd

123

1. Discovered by accident, PBK login video, show again.
2. DJSON video [https://youtu.be/\\_w-E4Z4Ju5s?t=250](https://youtu.be/_w-E4Z4Ju5s?t=250)

Login using Hash of public key.

'Graph/dmeta/CXAGCgRKevA==', ) ["/a\_cn  
{"r":"GraphVdmeta/CXAGCgRKevA==", "t":  
fgl\_s 340 < 2 > array ( 0 => array ( 0 => {  
'Icdw:', 5 => 'B\_AUTH', ), 1 => NULL, )

Don't allow  
yo6sgmfq7pfvvp2e4kcuhtfg7wfltt63igwcukhbmum6lu3a3a.b32.i2p  
to prompt you again

OK

SEND

GET

**DJSON: Decentralised JSON -- ULTIMATE generalisation of Bitcoin address and blockchain, w/o MINING.**



M4 Metaprogramming in Forth  
56 subscribers



All

For you



The A.I. Stock Bubble |  
ChatGPT, Grok, Go Eropic |

yo6sgmfq7pfvpv2e4kcuhtfg X yo6sgmfq7pfvpv2e4kcuhtfg X +

https://yo6sgmfq7pfvpv2e4kcuhtfg7wfllt63igwcuuhbmuqm6lu3a3a.b32.i2p/oxm/oxm.php?nn=adam

170%



adam session\_id:adam-fer4f9qk69m9nj562u7kj5n2u9\_31  
session\_id:adam-fer4f9qk69m9nj562u7kj5n2u9\_31

## Omni\*Search Demo

Copy the following code and execute it in

f(): B\_F + JSON.stringify({w:'like', t:'recipi

1602 Phos 1611 S 1621 B\_F start omni:

fgl\_s 340 < 2 > array ( 0 => array ( 0 => '{  
'lcdw:', 5 => 'B\_AUTH', ), 1 => array ( 'SP'  
'LS0tLS1CRUdJTiBQVUJMSUMgS0VZLS  
'NN' => 'adam', ), )

fgl\_s 340 < 4 > array ( 0 => array ( 0 => '{  
["SESSION:", "AUTH", "i:", "PBK", "i:", "o\_has":  
1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4 => 'lcdw'  
array ( 'a\_cmd' => array ( 0 => 's:', 1 => ';' )  
'Graph/dmeta/CXAGcRKevA==', ) [{"a\_cm

{ "r": "Graph/dmeta/CXAGcRKevA==", "t": "  
fgl\_s 340 < 2 > array ( 0 => array ( 0 => '{  
'lcdw:', 5 => 'B\_AUTH', ), 1 => NULL, )

fgl\_s 340 < 2 > array ( 0 => array ( 0 => '{  
"B\_AUTH": ["SESSION:", "AUTH", "i:", "o\_has:",  
"jd:", "cdw:", "am:", "lcdw:" ], 5 => 'B\_AUTH' ), 1 => array ( 'SP' => 'e3235b7f', 'PASS' => '20250210\_0437341', 'PBK' =>

⊕ https://yo6sgmfq7pfvpv2e4kcuhtfg7wfllt63igwcuuhbmuqm6lu3a3a.b32.i2p/oxm/oxm.php?nn=adam

post ajax:  
fgl\_s 340 < 2 > array ( 0 => array ( 0 => '{  
"B\_AUTH":  
["SESSION:", "AUTH", "i:", "o\_has:",  
"jd:", "cdw:", "am:", "lcdw:" ], 5 => 'B\_AUTH' ), 1 => array ( 'SP' => '93b164de', 'PASS' =>  
'20250211\_220742', 'PBK' =>  
'LS0tLS1CRUdJTiBQVUJMSUMgS0VZLS0tLS0tKUljQ0lqQU5CZ2txaGt  
pRzl3MEJBUVUGQUFQ0FnOEFSNlDQ2dLQ0FnRUFyUlR1TWJCL3NS  
c2dXmNSeGhOUDjLWkNVRkJkdERSVXV1b3oZSC9XT05nYU1QWExG  
NHVwzFNUTHU0QXhWNutkUnFBTwlMzRzI2ZTzkaBqcEzS3MvQlVNd  
0p3VW1Jd1EyYmtFL0NsZFdsDCweExVVXNnQuI20VNGOTRCGpmW  
EZMODVJL2Vaa1NSem5RWHRsZnQVYzzJTG4yMDFyeIb3OGl0dEl1Z2R  
vNHBSanBLVzNuS095SlAwZ2Nrck0dWJCSG1HSjlqOW5YeXZraSszUU  
V4b5t30JRWfhOR28yaH2UFR3akhTSVUvdjhwbzKZYkpiVm8vTzTU  
9vK2tStkl5ZW1manpyYTFEnzdzyZDMrZjMveER4bGQraTg2K3dyRlkN  
WZlCDQzOElpK0pZMktLwNxzd1hxavZ5eGirTU1ENUJpNDNmTnBiS0Js  
ZXJBZYU5pY2pRTGhUzVE1Vlk0d2pUczNMZVMxaytLRRhBZQVNROSTz  
ElsVWVaSjVNVDhtMnBodGtM0V4WHAYoJtZml2ZmxPRXRrdmdaZ  
m1OQzJPbUcyXNYZ3pWL05qZk5kakdZ2Zwp0vU0YKz6WFdZKzNRQ  
3o4UGxpBUZzeWtJZlloebVMNzQ5MW9tVmZjeUlFuZBwB1hqt1Vnbl  
NsdxPMFBxRk5oODdyTwpvczJYYTg4THpmQmh1UFJIN2pwVxd1Y0  
pvbG1GU3ZlYUfh1NjNW1NWnl1ZUZvMuJlV3UxWlhuK1pzRzhEekdM  
R3lCc19XYkuNvo1NktuZzdYVbzBMVDRGTCVlxNWE1VG95VVNDbi9ua1  
dYUkp6UlhrCGFwQUtmgVNPeKFDUEVtak9GYNzEQWNkbGMrWVpBK  
0U1bXVBYVmTnNpCvQWn3pzNkt0Qk9rbWRTNVJMXVvOENBd0VB  
QVE9PQotLS0tLUVORCBQVUJMSUMgS0VZLS0tLS0=, 'NN' => 'adam', ))

Don't allow  
 yo6sgmfq7pfvpv2e4kcuhtfg7wfllt63igwcuuhbmuqm6lu3a3a.b32.i2p  
to prompt you again

OK

SEND

GET



DSC

cmd

123

Encrypted\_Message

Any\_other\_remarks

Misc

Activities Firefox Sel 11 Feb, 22:07 zh

yo6sgmfq7pfvp2e4kcuhtf X yo6sgmfq7pfvp2e4kcuhtf X + https://yo6sgmfq7pfvp2e4kcuhtf7wfllt63lgwcukhbmum6lu3a3a.b32.i2p/oxm/oxm.php?nn=adam 170% ☆

adam session\_id:adam-fer4f9qk69m9nj562u7kj5n2u9\_31  
session\_id:adam-fer4f9qk69m9nj562u7kj5n2u9\_31

Omni\*Search Demo

Copy the following code and execute it in the browser console:

```
f(): B_F +' JSON.stringify({w:'like', t:'recipient_hash', f:'sender_hash'}) +' jd: rghc: g_
```

1602 Phos 1611 S 1621 B\_F start omni:  
fgl\_s 340 < 2 > array ( 0 => array ( 0 => {'B\_AUTH':["SESSION:", "AUTH", "i:", "s:", 'lcdw:', 5 => 'B\_AUTH', ], 1 => array ( 'SP' => '9fa64665', 'PASS' => '20250210\_00:LS0tLS1CRUdJTiBQVUJMSUMgS0VZLS0tLS0KTUIJQ0IqQU15C72txaGtnRzI3MF' 'NN' => 'adam', ), )  
fgl\_s 340 < 4 > array ( 0 => array ( 0 => {'B\_AUTH1': ["SESSION:", "AUTH", "i:", "PBK", "i:", "o\_hash.json", "l\_cdwjs", "t\_f0": "2025-02-10T00:38:00", "r": "Graph/dmeta/CXAGcRKevA==", } [ {"a\_cmd": ["s:", ";"], "t\_f0": "2025-02-10T00:38:00", "r": "Graph/dmeta/CXAGcRKevA==", "t": "2025-02-10T00:38:00"} ]  
fgl\_s 340 < 2 > array ( 0 => array ( 0 => {'B\_AUTH':["SESSION:", "AUTH", "i:", "s:", 'lcdw:', 5 => 'B\_AUTH', ], 1 => NULL, )  
fgl\_s 340 < 2 > array ( 0 => array ( 0 => {'B\_AUTH':["SESSION:", "AUTH", "i:", "s:", 'lcdw:', 5 => 'B\_AUTH', ], 1 => array ( 'SP' => 'e3235b7f', 'PASS' => '20250210\_0437341', 'PBK' =>

DSC

cmd

123

Encrypted\_Message

Any\_other\_remarks

Misc

adam

s: x:

AUTH GenKeys SEND GET

## Front End

PBK (Public Key)

Trillion Dollar Slide:  
defines user identifier!!

Ciphertext

+  
PVK (Private Key)

Secret Phrase (SP)

## Back End

PBK (Public Key)

+

Secret Phrase (SP)

Ciphertext

Foundation of Bitcoin  
user identifier:  
hash of public key

Secret Phrase (SP)

## Additional Options

Backend may send its PBK (B\_PBK) (prefix B) to frontend, so that

- front end may encrypt deciphered secret phrase (SP) with B\_PBK,
- then send to Backend, which then decipher it using Backend private key (B\_PVK).

"req\_auth\_sc": ["b64d:", "4", "orpb:", "hex:", "dup2:", "rsa:", "2", "pick:", "lkey:", "swap:", "r  
ecr:", "b64e:", "ON", "ECHO", "bv:", "ec:", "2", "pick:", "SP", "ka:", "AUTH", "uss:", ":" ]

```
i:", "dts:", "over:", "over:", "jsp:", "rot:", "rot:", "swap:", "-", "jsd:", "=chat", "dc0:", "_", "jsd:", "rot:", "rot:", "jsp:", "jnl:", "swap:", "log", "\/", "jsd:", "wa:", ";"], "nick": ["NN", "ka:", "AUTH", "uss:", ";"], "req_auth_sc": ["b64d:", "4", "orpb:", "hex:", "dup2:", "rsa:", "2", "pick:", "lkey:", "swap:", "recr:", "b64e:", "ON", "ECHO", "bv:", "ec:", "2", "pick:", "SP", "ka:", "AUTH", "uss:", ";"], "b_cdw": [= _\Backup\o_cdw.json\ /, "dw.json", "3", "mssx:", "o_cdw.json", "s:", "copy:", ";", "s_ss": ["SESSION:", "s:", ";"], "uu_ls": [.\Graph\, "swap:", "2", "mssx:", "mkdir:", ";"], "a_cache": ["Web", "0", "i:", "\/", "explode:", "apop:", "cache", "apush:", "rgrep:", "\body\ /", "ig:", "\div\ /", "ig:", "\hwindow\ /", "ig:", "av:", ";"], "a_keyword": ["UUID", "swref\ /", "ig:", "\src\ /", "ig:", "\width\ /", "ig:", "\", "553 function fgl_lkey()  
554 {  
555     global $S;  
556     $keystr = array_pop($S);  
557     $key = end($S);  
558     $key->loadKey($keystr);  
559 }  
560 function fgl_recr()  
561 {  
562     global $S;  
563     $str = array_pop($S);  
564     $key = end($S);  
565     $key->setHash('sha256');  
566     $key->setMGFHash('sha256');  
567     $S[] = $key->encrypt($str);  
568 }
```

Open



libfgl.php  
/var/www/dmeta/o/auth

Save

```
1268 }  
1269 }  
1270 }  
1271 }  
1272  
1273 function FGL($a)  
1274 {  
1275     global $argv, $S, $SS, $xk, $xs, $SC, $SL, $CDW, $BV;  
1276     $a = preg_replace('/\s+/', ' ', $a);  
1277     $a = explode(' ', trim($a));  
1278     $SS[] = array(0, $a);  
1279     if (isset($D)) {  
1280         echo "\n\n" . __FUNCTION__ . " " . __LINE__ . " " . var_src($SS);  
1281     }  
1282     $xc = count($SS);  
1283     $xk =& $SS[$xc - 1][0];  
1284     $xs =& $SS[$xc - 1][1];  
1285     $xl = count($SS[$xc - 1][1]);  
1286     $vk = $xk;  
1287     $Z = $xl;  
1288     if (isset($D)) {  
1289         echo "\n" . __FUNCTION__ . " start " . __LINE__ . " vk " . $vk . " Z " . $Z . " SS " .  
var_src($SS) . "\n";  
1290         $S[] = $vk;  
1291     }
```

Open



Save



libfgl.php  
/var/www/dmeta/o/auth

```
var_src($SS) . "\n";
    $S[] = $vk;
    $t = array_pop($S);
    $CC = $t[0];
}
do {
    // 20230609 Exception handling / errors etc.
    if (gettype(end($S))=="string") {
        if (substr(end($S),0,9)=="__ERROR__") { // exit; // break;
            echo "\n\n  FGL :post ".array_search(":post", $S[0])." ".var_src($BV)." ".var_src(
$SS)."\n";
            // exit; // break;
            // array_pop($SS);
            /*
            $xk=array_search(":post", $S[0])+1;

            $xc = count($SS);
            // $xk =& $SS[$xc - 1][0];
            $xs =& $SS[$xc - 1][1];
            $xl = count($SS[$xc - 1][1]);
            $vk = $xk;
            */
            echo "  ERROR xl ".$xl."  xk ".$xk."  xs ".var_src($xs)."  SS ".var_src($SS);
        }
    }
}
```

Open



libfgl.php  
/var/www/dmeta/o/auth

```
1361 } else {
1362     if ($v[$l - 1] == ":") {
1363         $l = strlen($v);
1364         $fn = substr($v, 0, $l - 1);
1365         if (function_exists("fgl_" . $fn)) {
1366             if (isset($D)) {
1367                 echo " xs: line " . __LINE__ . " fgl_" . $fn . " ";
1368             }
1369
1370
1371
1372 // if (gettype(end($S))=="string") if (substr(end($S),0,9)=="_ERROR_") { // exit;
1373 /*           if (gettype(end($S))=="string") if (substr(end($S),0,6)=="==POST") { // exit;
1374             echo "\n xs: " . __LINE__ . " ";
1375             echo " v " . $v . " length " . strlen($v) . " ord " . ord($v) . " vk " . $vk . " ";
1376             var_src($xs);
1377             exit;
1378 */
1379
1380             call_user_func("fgl_" . $fn);
1381
1382
1383 //           if (gettype(end($S))=="string") if (substr(end($S),0,9)=="_ERROR_") { // exit;
```

```
1272
1273 function FGL($a)
1274 {
1275     global $argv, $S, $SS, $xk, $xs, $SC, $SL, $CDW, $BV;
1276     $a = preg_replace('/\s+/', ' ', $a);
1277     $a = explode(' ', trim($a));
1278     $SS[] = array(0, $a);
1279 }
1290 do {
1291
1292     // 20230609 Exception handling / errors etc.
1293     if (gettype(end($S))=="string") {
1294         if (substr(end($S),0,9)=="__ERROR__") { // exit; // break;
1295
1296             call_user_func("fgl_" . $fn);
1297
1298             } else {
1299                 if ($v == '====') {
1300                     $S[] = array_pop($S) === array_pop($S);
1301                 } else {
1302                     $S[] = $v;
1303                 }
1304             }
1305         }
1306     } while ($vk < $xl); // LOL $xk++ but $vk is not?
1307
1308     array_pop($SS);
1309
1310 }
```

```
>> t()  
< 7929297801672961  
>> f_("a h53:")
```

```
>> t()  
< 4438178491138429  
>> f_("A h53:")
```

Hilbert Hotel: Hash code on room, cabinet, files (physical paper file folders)  
- Ask Google Gemini to generate.

Example of hash numbers in browser console

Relate all these to Hilbert Hotel Cabinets

```
>> Math.pow(2,53)  
< 9007199254740992
```

```
>> t()  
< "D8R_9GoBfQ=="  
>> f_("A h53: b64: path:")
```

```
>> t()  
< "HCungsl5AQ=="  
>> f_("a h53: b64: path:")
```

<https://github.com/omnixtar/omnixtar.github.io/blob/main/js/omni.js>



<> **Code** Issues 3 Pull requests Actions Projects Wiki Security 1 ...

main omnixtar.github.io / js / omni.js Go to file t ...

omnixtar f\_path js/omni.js ✓ 0a83e06 · 3 weeks ago

279 lines (250 loc) · 9.17 KB

Code Blame

Raw

```
1  function include(url) {
2      var s = document.createElement("script");
3      s.setAttribute("type", "text/javascript");
4      s.setAttribute("src", url);
5      document.body.appendChild(s);
6  }
7
8  // 2025-10-24
```



main ▾

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Code Blame

Raw



71  
72 ▾ var phosinit=function(){  
73 ▾ var Phos=function(){  
74 // var S=[] // this is local, not accessible outside  
75 var \$ = this // macro; 20250804 use var to localise, \$ is used by jquery  
76 this.S=[]  
77 var S=this.S // still need var S for local code access  
78 S[0]={}  
79 var S0=S[0]  
80 var \$CDW = {}  
81 S[0].\$CDW = \$CDW;  
82 S0.skip = 0;  
83 S0.CDW = [];  
84 S0.dlb = {};  
85 ▾ var FGLA = function(\$WA) {  
86 // arguments[0].split(' ').map(e=>{  
87 var c\_cdw=false; var i=0, ic, W=\$WA;  
88 \$WA.map(e=>{ // WORD ARRAY  
89 console.log(i, e);  
90 var \$v=e.charCodeAt(i)-\$v.length;





main ▾

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Code Blame

Raw



```
72     var phosinit=function(){
85         var FGLA = function($WA) {
88             $WA.map(e=>{ // WORD ARRAY
89                 console.log(i, e);
90                 var $v=e, $vk=i; $l=$v.length;
91                 if (!c_cdw && $v==':') { // COLON DEFINITION WORD
92                     c_cdw=true;
93                     console.log(' CDW start ', W[i+1])
94                     ic = i+2; // start index of CDW
95                     CDN=W[i+1]
96                     $CDW[CDN]=[]
97                 }
98                 if (c_cdw) {
99                     if ($v==';') {
100                         console.log(' end CDW', $v);
101                         c_cdw=false;
102                     }
103                     console.log(' in CDW', $v);
104                     if (i>=ic) $CDW[CDN].push($v)
105                 }
106             }
107         }
108     }
109 
```



main ▾

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Code

Blame

Raw



```
72  var phosinit=function(){
85      var FGLA = function($WA) {
112          else if (in_array($v, array_keys($CDW))) {
113              var $WA = $CDW[$v];
114              if (end($WA) == ';') array_pop($WA); // remove ; in definition before execution
115              S0.CDW.push([ $v, $vk, {} ]); // console.log(1176, 'before FGLA', JSON.stringify(S0.CDW));
116              FGLA($WA); S0.CDW.pop(); // console.log(1183, 'after FGLA', JSON.stringify(S0.CDW));
117              S0.cda = end(S0.CDW);
118          }
119          else if ($v[$l - 1] == ':') { // colon suffix word after symbol else : will fail
120              var $fn = $v.substr(0, $l-1);
121              if (typeof eval("f_"+$fn)!=="undefined") // console.log('is func', $v, typeof eval("f_"+
122                  eval("f_"+$fn+"()"))
123              } else s.push(e)
124          }
125          i++
126      }
127      )
128  }
```



main ▾

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Code

Blame

Raw



```
9   function f_path() // path safe b64
10  {
11      // $a = array_pop($S);
12      var $a = s.pop()
13      // echo '  in path: '.$a." ".strpos($a, '/')."\n";
14      // if (strpos($a, '/')>=0) { $a = str_replace('/', '_', $a); } // echo $a; }
15      if ($a.indexOf('/')>=0) { $a = $a.replaceAll('/', '_'); }
16      // if (strpos($a, '+')>=0) $a = str_replace('+', '-', $a);
17      if ($a.indexOf('+')>=0) { $a = $a.replaceAll('+', '-'); }
18      s.push($a)
19  }
20
21  // mkeval_l("omnihash")
22  // DmII2G1lw==
23  // var omnihash=function(){
24  var cyrb53=function(str, seed = 0){
25      let h1 = 0xdeadbeef ^ seed, h2 = 0x41c6ce57 ^ seed;
26      for (let i = 0, ch; i < str.length; i++) {
27          ch = str.charCodeAt(i);
28          h1 = Math.imul(h1 ^ ch, 0xe11d25761);
```



main ▾

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Code

Blame

Raw



```
24  var cyrb53=function(str, seed = 0){  
25      let h1 = 0xdeadbeef ^ seed, h2 = 0x41c6ce57 ^ seed;  
26      for (let i = 0, ch; i < str.length; i++) {  
27          ch = str.charCodeAt(i);  
28          h1 = Math.imul(h1 ^ ch, 2654435761);  
29          h2 = Math.imul(h2 ^ ch, 1597334677);  
30      }  
31      h1 = Math.imul(h1 ^ (h1>>>16), 2246822507) ^ Math.imul(h2 ^ (h2>>>13), 3266489909);  
32      h2 = Math.imul(h2 ^ (h2>>>16), 2246822507) ^ Math.imul(h1 ^ (h1>>>13), 3266489909);  
33      return 4294967296 * (2097151 & h2) + (h1>>>0);  
34  }  
35  var bnToB64=function bnToB64(bn){  
36      var hex = BigInt(bn).toString(16);  
37      if (hex.length % 2) { hex = '0' + hex; }  
38      var bin = [];  
39      var i = 0;  
40      var d;  
41      var b;  
42      while (i < hex.length) {
```



main ▾

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Code

Blame

Raw



```
35  var bnToB64=function bnToB64(bn){  
36      var hex = BigInt(bn).toString(16);  
37      if (hex.length % 2) { hex = '0' + hex; }  
38      var bin = [];  
39      var i = 0;  
40      var d;  
41      var b;  
42      while (i < hex.length) {  
43          d = parseInt(hex.slice(i, i + 2), 16);  
44          b = String.fromCharCode(d);  
45          bin.push(b);  
46          i += 2;  
47      }  
48      return btoa(bin.join(''));  
49  }  
50  var mkeval_l=function(FN){ // *_l means long form before minified  
51      var j1={n:FN}  
52      j1.s=eval(j1.n).toString()  
53      j1.t=(new Date()).toISOString()  
54      var j2={s:JSON.stringify(j1),h:bnToB64(cyrb53(JSON.stringify(j1)))} }
```



14ce0dd ▾

omnixtar.github.io / h / Phos / librsa.js

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Code Blame

Raw



```
193     }
194
195     const cyrb53 = function(str, seed = 0) {
196         let h1 = 0xdeadbeef ^ seed, h2 = 0x41c6ce57 ^ seed;
197         for (let i = 0, ch; i < str.length; i++) {
198             ch = str.charCodeAt(i);
199             h1 = Math.imul(h1 ^ ch, 2654435761);
200             h2 = Math.imul(h2 ^ ch, 1597334677);
201         }
202         h1 = Math.imul(h1 ^ (h1>>>16), 2246822507) ^ Math.imul(h2 ^ (h2>>>13), 3266489909);
203         h2 = Math.imul(h2 ^ (h2>>>16), 2246822507) ^ Math.imul(h1 ^ (h1>>>13), 3266489909);
204         return 4294967296 * (2097151 & h2) + (h1>>>0);
205     };
206
207     ...
208     function f_h53()
209     {
210         var S = M.S;
211         S.push(cyrb53(S.pop()));
212     }
213 }
```



14ce0dd ▾

omnixtar.github.io / contract / js / omni.js

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Code Blame

Raw



```
8     // 2025-10-24
9     function f_h53()
10    {
11        var s = s;
12        s.push(cyrb53(s.pop()));
13    }
14    var f_b64=function(){s.push(bnToB64(s.pop()))}
15    function f_path() // path safe b64
16    {
17        // $a = array_pop($s);
18        var $a = s.pop()
19        // echo ' in path: '.$a." ".strpos($a, '/')."\n";
20        // if (strpos($a, '/')>=0) { $a = str_replace('/', '_', $a); } // echo $a; }
21        if ($a.indexOf('/')>=0) { $a = $a.replaceAll('/', '_'); }
22        // if (strpos($a, '+')>=0) $a = str_replace('+', '-', $a);
23        if ($a.indexOf('+')>=0) { $a = $a.replaceAll('+', '-'); }
24        s.push($a)
25    }
26
27
```



omnixtar.github.io/h/?ECClo9IBig==



New Chrome available

# Omni\* Omnihash

[Omnihash](#)[GenKeys](#)[Save](#)[Help](#)[Load Keypair](#) No file chosen

Your Hash is H-dYqaYMkQ==

Your Parent Hash is ECClo9IBig==

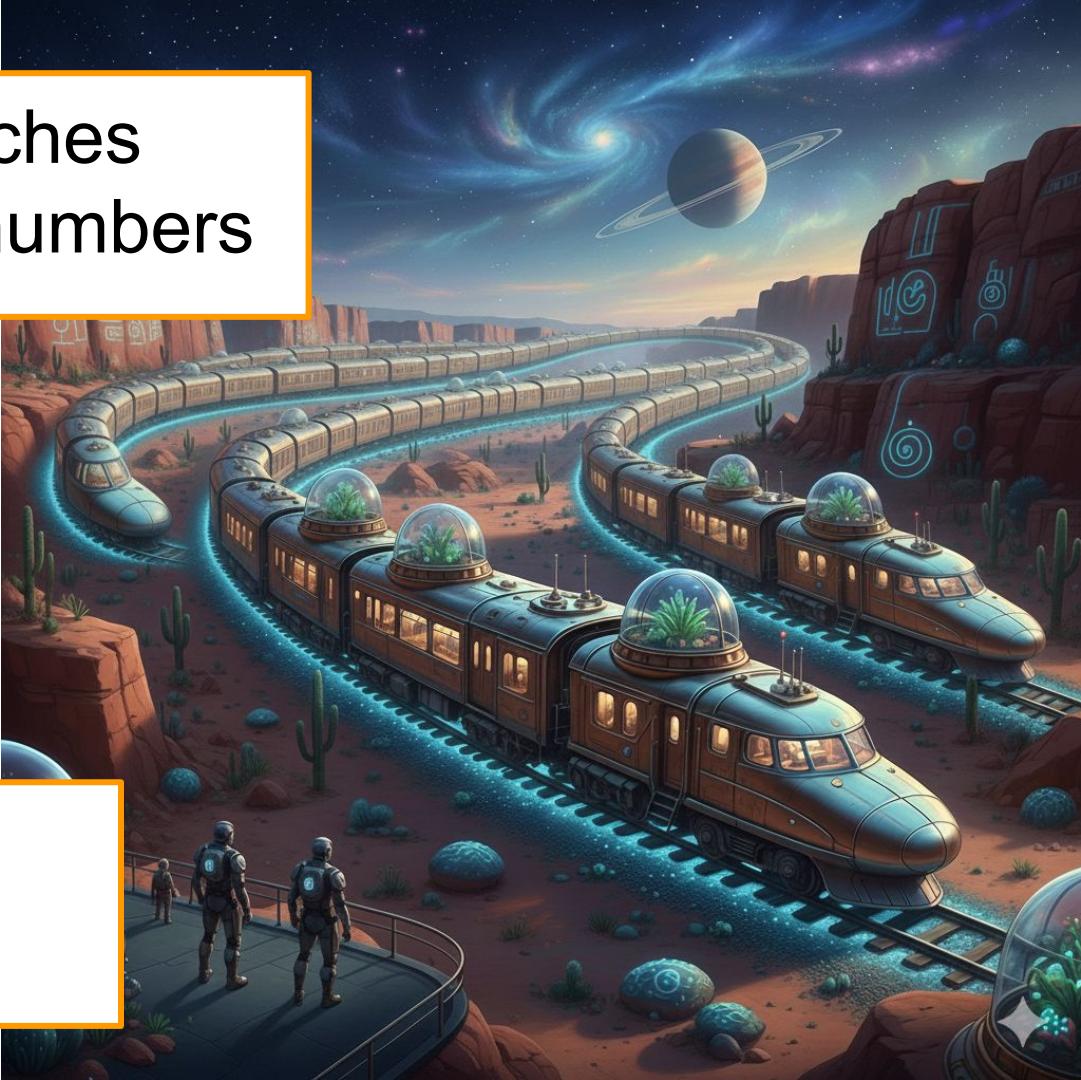
You have 0 downlines.

```
{"x":"REG","p":"root","h":"H-dYqaYMkQ==","t":"2025-12-20T11:42:04.749Z"}
```

- You may copy & save this DJSON



Infinity Trains: Coaches  
labeled with hash numbers



Coach contains Infinite  
Cabinet

# Hilbert World

Hilbert world

- Infinite ships

Universal Turing Machine

- Infinite tape (memory storage)

Hilbert Metatron / Hilbertron

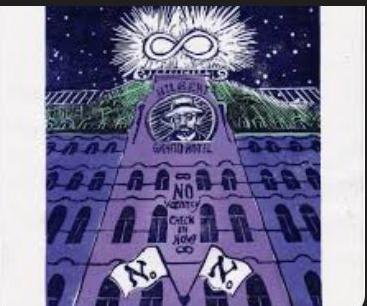
- Tron = thing
- Metatron = meta-thing
- (non-biblical)





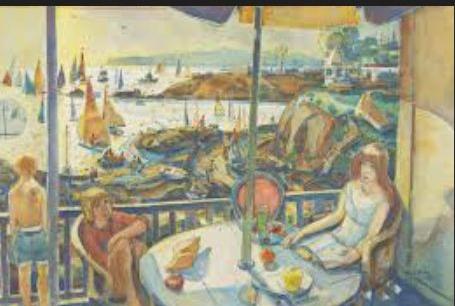
Medium

Hilbert's Hotel: The Infinite Spaceship ...



Instagram

mathematician David Hilbe...



Chapman Newsroom - Chapman Univ...

Changing California" exhibition ope...



Pageant of the Masters

Hilbert Museum Celebrate C...



Eldar Zakirov

Hilbert Astoria. Co...



Daily Bulletin

Beach mural by Millard Sheets was...



Los Angeles Times

Looking back: Hilbert Museum offer...



Bandcamp

Hotel Hilbert | THE AFT...



Tripadvisor

HILBERT MU...

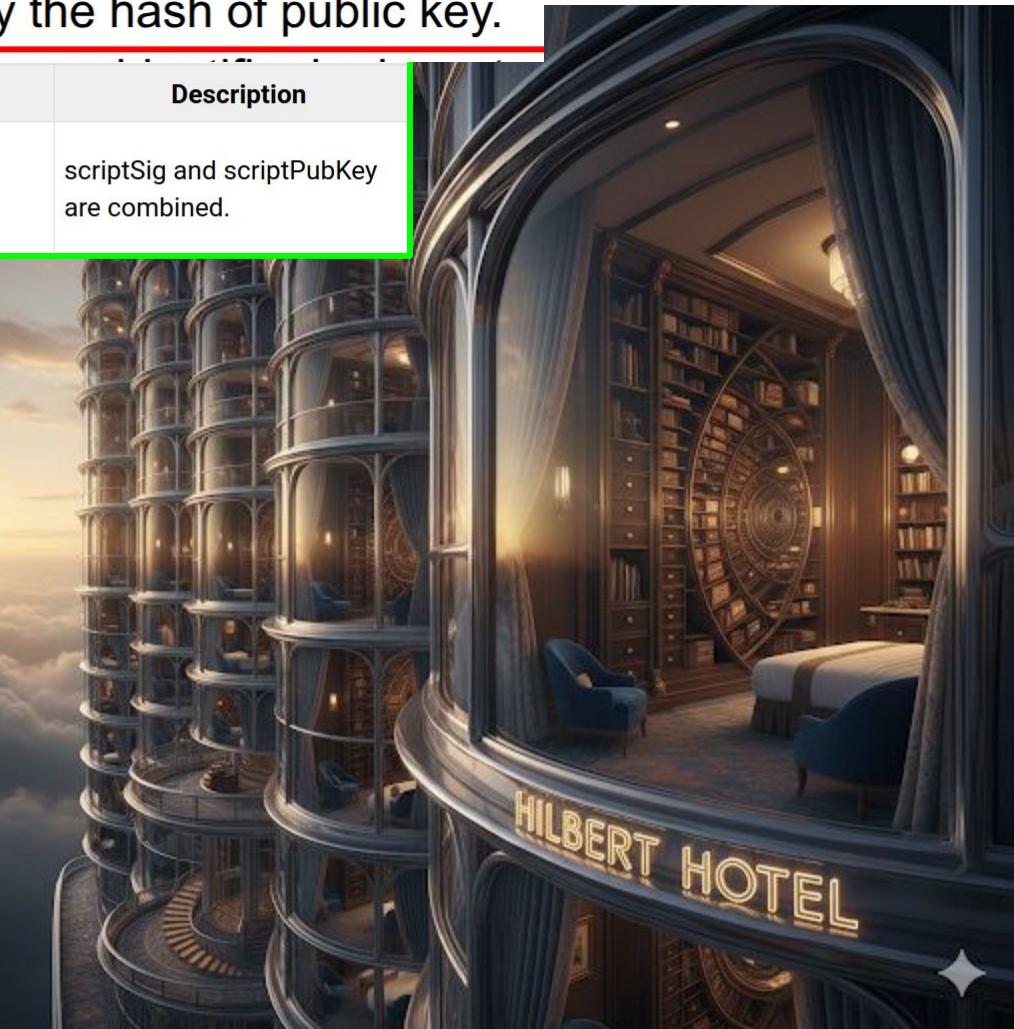
Bitcoin uses FORTH like syntax to verify the hash of public key.

Stack	Script	Description
Empty.	<sig> <pubKey> OP_DUP OP_HASH160 <pubKeyHash> OP_EQUALVERIFY OP_CHECKSIG	scriptSig and scriptPubKey are combined.

### Phoscript-Linux/C-FORTH Sandwich Model

1. Minimal VM: Linux Java I2P Apache php →
2. Sandwich Model (user space programs):
  - a. Top: P2C (Phos to C) P2J (Phos to Java)  
[ start: 0, end: replace host language functions ]
  - b. Middle: C-lib, J-lib (Java), PHP-lib in .o (Linux)  
[ start: 100%, end: replaced by Top & Bottom layers ]
  - c. Bottom: need equivalent F-lib (FORTH)  
[ start: 0, end: replace Middle layer host language functions ]
3. Replace Kernel? (Need experience from Phos)

  - a. Use P2C to replace C code with Phoscript
  - b. Write FORTH code to replace low level C code



# Infinity Trains: Coach labeled with hash numbers



Coach contains Infinite Cabinet

<https://omnixtar.github.io/h/> SVFIG memberships, memberships apps for all businesses, NGO etc. memberships data is big money, but also configurable by users, no fine print fraud by big data apps.

- Hash Filesystem examples for applications: /h /contract
- Get JSON from /h ; run hbp (h53: b64: path:) in PHP to save
- Users can add more information later

<https://omnixtar.github.io/contract/> Separation of Disclosure and Royalties

Infinity Trains = (network packets)

- Dijkstra's shunting yard algorithm: is the foundation of stack machines
- any mathematical relationships?

omnixtar.github.io/h/



# Omni\* Omnihash

[Omnihash](#)[GenKeys](#)[Save](#)[Help](#)[Load Keypair](#) No file chosen

Your Hash is ECClo9IBig==

Your Parent Hash is root

You have 0 downlines.

<https://omnixtar.github.io/h/>

```
{"x":"REG","p":"root","h":"ECClo9IBig==","t":2}
```

```
025-12-18T11:02:03.028Z"}
```

- You may copy & save this DJSON

Decentralised JSON ...





## **Omni\*Contract: Ownership & Rights of Use of Digital Asset (Source Code)**

Like

- On the Separation of Disclosure and Royalties of the Source Code July 21, 2024
1. You, a human agent of a company or government agency, may read the source code without making payments to the author or authors, but if you execute this program on behalf of your company or agency for commercial purposes, we reserve the rights to claim royalties from you or your company or agency.
  2. Your copy of source code shall be attached with at least one Omni\* Hash Contract bearing the Omnihash of a Omni\* Agent and your own Omnihash, to authorise you the permissions to use or modify said source code, otherwise you shall pay maximum penalties allowed by a legal court of your jurisdiction, for the damages you have incurred for deploying the source code pertaining to clause (1).

Omnihash = Hash for any type of digital asset (photos, documents, videos, animations, simulations, PROGRAM SOURCE CODE etc.) = Hash of DJSON

DJSON Decentralised JSON = JSON string (object) containing at least one Omnihash (recursive definition)

Omni\*Web: \* = anything in Linux, cannot be copyrighted in English speaking countries? (NVIDIA, OpenAI, etc, all has "Omni" products.)

Crypto-Metaprogramming. Links.

<https://omnixtar.github.io/djson/>

**Omni\*Web: Crypto-Metaprogramming (CMP) as alternative to Model-View-Controller; towards Metanarchy**

[https://www.youtube.com/watch?v=P\\_M3PVn9J7I](https://www.youtube.com/watch?v=P_M3PVn9J7I)

DJSON Decentralised JSON is a JSON object or its encoded string where at least one of the fields is an Omnihash, representing the owner of this JSON object.

- `["2025-10-24T14:25:28.207+0000", "like", "CXAGcRKevA==", "CXAGcRKevA==", "HymWBzfj9A==", {"repo": "https://github.com/omnixtar/omnixtar.github.io/", "contract": "https://omnixtar.github.io/contract/", "ghh": "https://github.com/omnixtar/omnixtar.github.io/commit/19bb258190d57d6246840bf8ccc8957ae880e341", "datetime": "2025-10-24T04:41:21.000Z"}]`
- Omnihash: `DgV6_qnujw==`

Try this yourself:

1. Press F12 to bring up browser console.
2. Run the following code:

```
omnistart()
j0=["2025-10-24T14:25:28.207+0000", "like", "CXAGcRKevA==", "CXAGcRKevA==", "HymWBzfj9A==", {"repo": "http
s.push(JSON.stringify(j0))
f('h53: b64: path:')
s[s.length-1]
```

## Separation of Disclosure & Royalties

(C4A) Based on the dual chained property of hash codes, we arrived at one very important innovation on free software licenses, known as “separation of disclosure and royalties”, that is the author of the source code or the programmer, shall give permissions to third parties to view and analyse the source code in development and test environments, but shall reserve the rights to claim royalties if the source code and its binaries, if applicable, is used in production or commercial environments. We call this “separation of disclosure and royalties” as the conventional free software licenses mix them up. One might wonder, given hundreds of millions of very smart free software programmers out there, why is the idea of “separation of disclosure and royalties” almost unheard of, or are being restricted in isolated and small communities?