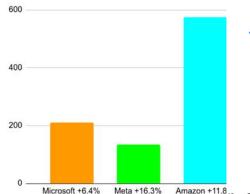


MMAGA Revenues 2023 Total: USD 1.611 Trillio



# Omni\*Chat: Creating a FORTH Shell within Java based BitTorrent Client BiglyBT Decentralized Chat (BBDC) --- Liang Ng

This presentation focuses on how FORTH derived <u>Phoscript</u> can be used to modify <u>BiglyBT Decentralized Chat</u>, in order to create a <u>stack</u> <u>machine engine within a Java host</u>. (10 minutes)

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🔽 Anonymous (I2P)

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sing separate de

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at (12P)

16:16 EE6A59

Open

Ray Wang to pay Chris Lee 1 gram of .999 gold coin.
Omnihash
Bxw0c5y+qg==

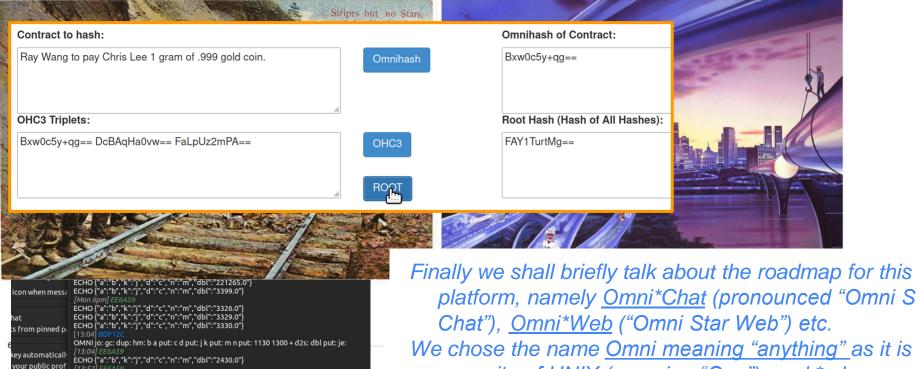
OHC3 Triplets:
Root Hash (Hash of All Hashes):

Bxw0c5y+qg== DcBAqHa0vw== FaLpUz2mPA==
OHC3

FAY1TurtMg==

on focuses on how FORTH derived an be used to modify BiglyBT ed Chat, in order to create a stack gine within a Java host. (10 minutes) tTorrent client written Java and as been known to be a file sharing "unregulated" contents. The second part of this presentation focuses on Omnicontract, a smart contract based on Omnihash, to address some regulation issues concerning digital assets ownerships, as well as law enforcement. (10 minutes)

Omnihash of Contract:



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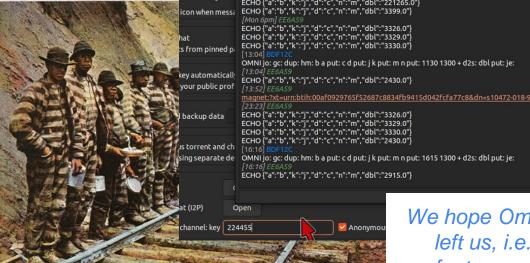
Google +9.9%

Apple -2.9%

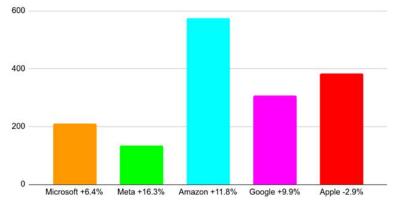
Microsoft +6.4%

Meta +16.3%

platform, namely <u>Omni\*Chat</u> (pronounced "Omni Star Chat"), <u>Omni\*Web</u> ("Omni Star Web") etc.
We chose the name <u>Omni meaning "anything"</u> as it is the opposite of UNIX (meaning "One"), and \* also means "anything" in UNIX "clone" environments. (10 minutes)
BitTorrent laid the foundation for a "decentralised" Internet, but unfortunately for over 20 years, there did not seem to be attempts to create FORTH-like shell on BitTorrent, except for BitCoin and other Blockchains.



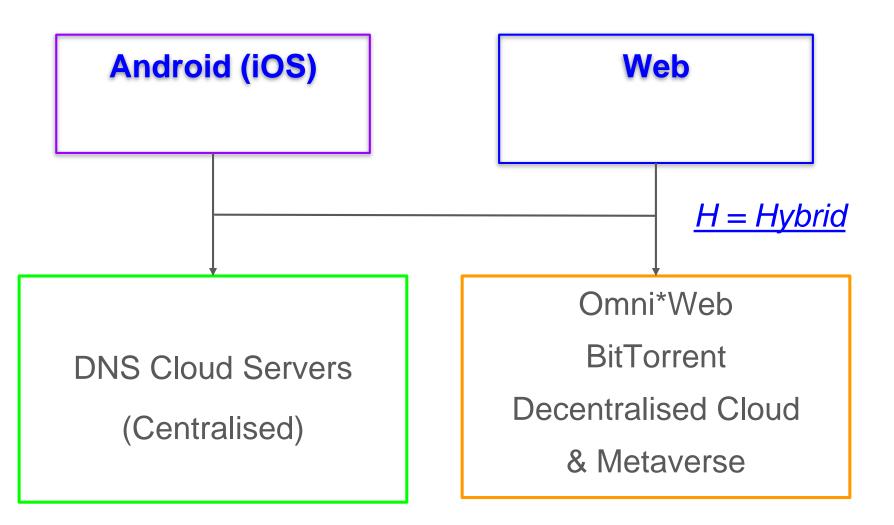
MMAGA Revenues 2023 (USD billions) Total: USD 1.611 Trillion (+7.26%)

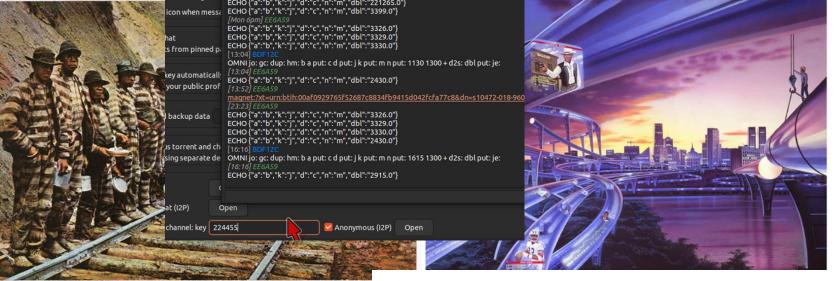




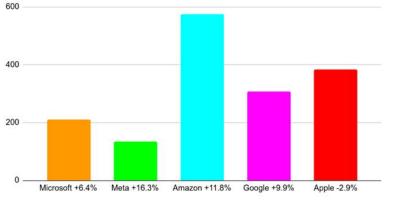
We hope Omni\*Web will pick up from where BitTorrent left us, i.e. <u>file-sharing and a very obscure chat</u> <u>feature</u>, which is the highlight of this talk, and continue to create <u>"Decentralised Cloud & Metaverse"</u>, using BitTorrent's greatest feature – <u>bypassing DNS –</u> <u>saving GLOBAL monthly DNS charges in USD 100</u> <u>millions</u>.

Finally we pay tribute to the late <u>Vernor Vinge</u>, who first popularised the concept of <u>"technological singularity"</u>, and make a daring but calculated estimate on <u>"Decentralised Cloud AI"</u> based on <u>Omni\*Web</u> and <u>hash indexed decentralised database</u> by end of 2025.







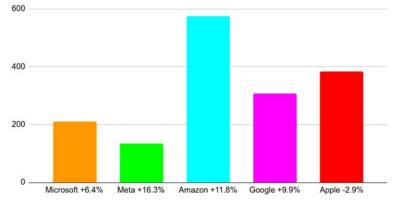


We invite participants to join us via the following software, during this talk to experience a glimpse of "Decentralised Cloud and Metaverse":

- 1. BiglyBT Decentralized Chat:
- Channels "224455", "332211", "556677"
- 1. Jitsi Meet, room "svfig" (available on Android, iOS or Web).



#### MMAGA Revenues 2023 (USD billions) Total: USD 1.611 Trillion (+7.26%)



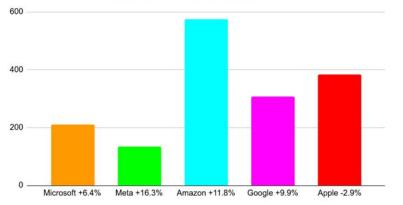


The photographs and charts used in this presentation were used in a YouTube video intended for audience outside USA. As such, they may raise questions for audience with USA, and much apologies are reserved for offending sensitivities. (Monty Python style humour is implied and encouraged.) The term MMAGA on the bottom left refers to Microsoft, Meta, Amazon, Google & Apple and shall not be confused with any other similarly spelled term.

The photograph on the top left serves to illustrate the plight of free software programmers who fruits of labour are stolen by corporations likened to railway tycoons.

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MMAGA Revenues 2023 (USD billions) Total: USD 1.611 Trillion (+7.26%)





In this video, we begin by pointing out the "MMAGA inequality", where top 5 tech companies, namely Microsoft, Meta, Amazon, Google & Apple, earning over USD 1.6 trillion in 2023, without <u>fairly</u> <u>rewarding individual users & free software</u>

#### programmers.

We then propose Omni\* platform, <u>combining</u> <u>BitTorrent, Phoscript & Omnihash</u> in an unprecedented manner, allowing anyone to learn & program a server easily with Phoscript, while monetising the digital assets with Omnihash, on any computer or device connected to Internet, bypassing DNS with BitTorrent. With this, we aim to establish a truly <u>Decentralised</u> <u>Cloud & Metaverse</u>, owned and operated by

individual users & free software programmers.

#### <u>2024</u>

June: Android port for Omni\*Chat Sept: Jitsi Meet Modification Dec: TikTok Clone 100 programmers 1000 users

#### <u>2025</u>

Gold Hash, Search Engine, Arti 1k programmers 100k users

#### <u>2026</u>

100k programmers x100 annua 10M users x100 annually

#### <u>2027</u>

10M programmers x2 annually 1B users x2 annually

#### <u>2028</u>

12M programmers linear growth 2B users linear growth annually

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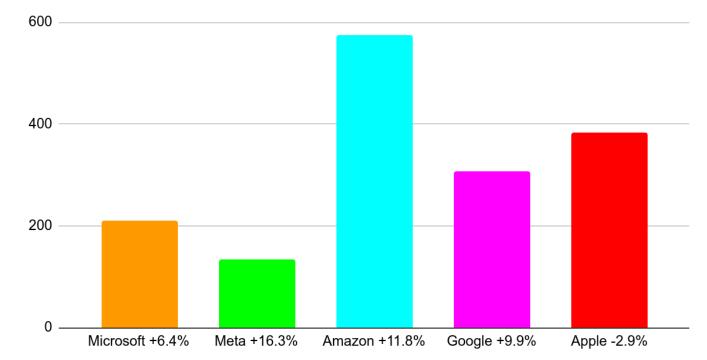
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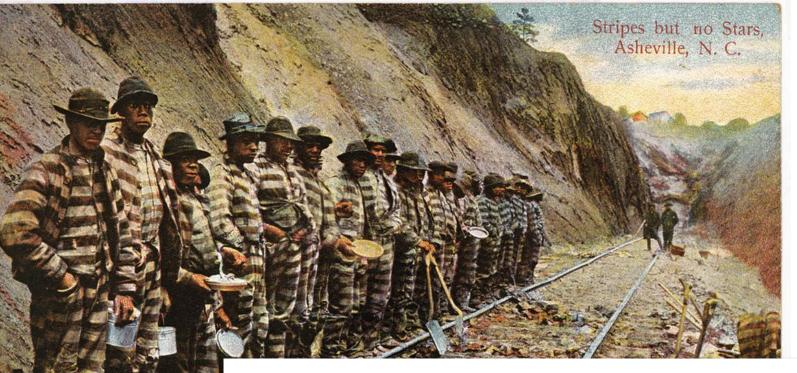
With this, we aim to establish a truly Decentralised Cloud & Metaverse, owned and operated by individual & free software programmers.

### MMAGA Revenues 2023 (USD billions)

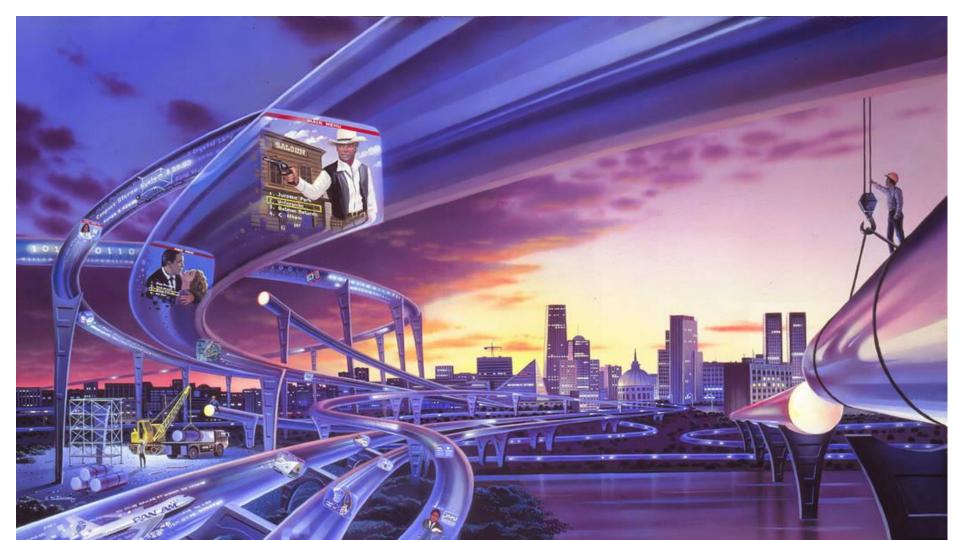
Total: USD 1.611 Trillion (+7.26%)



A literal trillion dollar question: Do you know that the combined revenues of the top 5 technology companies in 2023 already exceeded USD 1.6 trillion and are growing strongly above 5% annually?

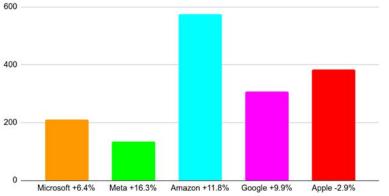


Using the definition by the contrary, <u>centralised cloud and</u> <u>metaverse</u> is what we have now, where less than 1% or 0.1% of the revenues of the technology companies are fairly shared with individual users and free software programmers.



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- 1. Play video.
- 1. Show code in Visual Studio Code.

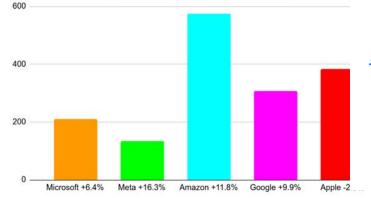
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MMAGA Revenues 2023 (USD billions) Total: USD 1.611 Trillion (+7.26%)





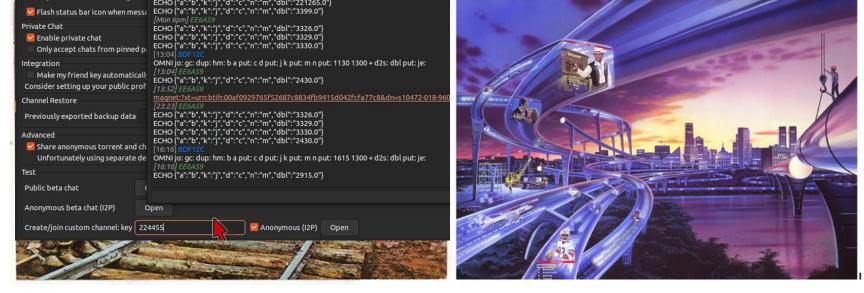
Phoscript implementation on JavaScript, PHP, Python, Symforth C++, Java.
Interesting targets: Golang, Rust, Hashkell, etc.
Phoscript: simplest FORTH to port and teach programmers in host programming languages.

<u>Homoiconism</u>: programming languages with uniform syntax for code and data (LISP, FORTH, etc.)

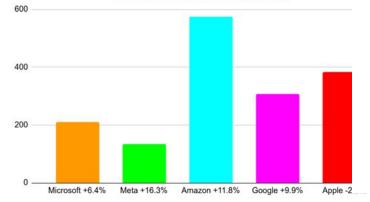
### Homotronic Computing: using one

ut: je:

programming language to design / program hardware (programmable), which then executes code in the same language, e.g. Phoscript-Verilog.



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Phoscript implementation on JavaScript, PHP, Python, Symforth C++, Java. <u>Show Phoscript engine source code in various</u> <u>programming languages.</u>

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["HTTP","SESSION:","AUTH","i:","PBK","i:","o\_hash.json","I\_cdwjs","h\_b64","dup:","last","rg:","newest","2","4","sspl:","s:",";"]}', 1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4 => 'lcdw:', 5 => 'B\_AUTH1', ), 1 => 'HTTP', 2 => 'Graph/dmeta/H-xchGCVBg==/FfScMnOmfg==:1:["2024-04-27T20:45:05.184+0000","reply\_to","H-xchGCVBg==","GJOk WueiQ==","CvX6dQEIZQ==","adam reply 0427 2045"]', )

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["2024-04-27T21:36:47.034+0000","reply\_to","GJOk\_WueiQ==","H-xchGCVBg==","FfScMnOmfg==","brian reply 0427 2136"]', )

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		Encrypted_Message				
		Any_other_remarks				
am		Misc				
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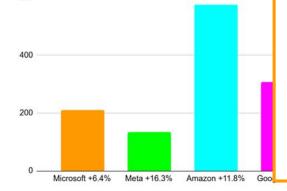
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                                                                              expandv.cpp
                                                                                                              init.js
114// utoa for unicode string!!
115// 20230619 works for hhm: !!
116S[2][3].onclick = function() { console.log(S[2][1].value.substr(S[2][1].value.length-2)); if (S[2][1].value.substr(S
   [2][1].value.length-2)=="e:") f(S[2][1].value); else if (S[2][1].value=="") f(newest msg); else f(': B AUTH1 HTTP S-
   ESSION: AUTH i: PBK i: o hash.json l cdwjs h b64 dup: last '+ utoa(S[2][1].value) +' b64d: 2 pick: dup: last rg: n-
   ewest 5 4 sspl: old record swap: 0 i: last 4 replace: isodt: 0 replace: dup: 2 i: 3 replace: 2 pick: 2 replace: 1
   pick: 5 replace: mk hash wm1 nl: . . wm2 s: ; : A AUTH1 B: B AUTH1 F 0 ; A AUTH1') }
118 function f e() { M.F(eval(s.pop())) }
120 newest msg=': B AUTH1 HTTP SESSION: AUTH i: PBK i: o hash.json l cdwjs h b64 dup: last rg: newest 2 4 sspl: s: ; :
   A AUTH1 B: B AUTH1 F O ; A AUTH1'
122 myhash=': B AUTH1 SESSION: AUTH i: PBK i: o hash.json l cdwjs h b64 s: ; : A AUTH1 B: B AUTH1 F O ; A AUTH1'
124 h mkdir=': B AUTH1 SESSION: AUTH i: PBK i: o hash.json l cdwjs h mkdir s: ; : A AUTH1 B: B AUTH1 F O ; A AUTH1'
126 function utoa(data) { return btoa(unescape(encodeURIComponent(data))); }
127
129// use ecr t, too much work to debug VM in awa:
130 async function f ecr t() { // 2021-02-19 must return TOS for awa: to work!!
131
       // var S = S(arguments[0]);
132
       var S = M.S;
       const encodedMessage = S.pop();
       const encryptedText = await window.crypto.subtle.encrypt({ name: 'RSA-OAEP' }, S.pop(), encodedMessage);
135
       S.push(encryptedText);
       return encryptedText;
136
137 }
```

```
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Activities
       Terminal
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                                          hongwu@hongwu-Latitude-5480: ~/devel/2024/SymForth/symengine-master/build/benchmarks
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In pow:
Expanding a: x + y
Expanding: (x + y)**2
0ms
number of terms: 3
Expanding r: 2*x*y + x**2 + y**2
TOS 8
              x sym: y sym: add: 2 7 + pow: 3 6 +
sm string:
sym: TOS x
Expanding: x
sym: TOS y
Expanding: y
In add: Expanding: x + y
+: 9729
In pow:
Expanding a: x + y
Expanding: (x + y)**9
0ms
number of terms: 10
Expanding r: 9*x*y**8 + 36*x**2*y**7 + 84*x**3*y**6 + 126*x**4*y**5 + 126*x**5*y**4 + 84*x**6*y**3 + 36*x
**7*v*2 + 9*x*8*v + x**9 + v**9
+: 9639
mystack TOS: 9
hongwu@hongwu-Latitude-5480:~/devel/2024/SymForth/symengine-master/build/benchmarks$ ./expandv x sym: y s
ym: add: 2 7 + pow: 3 6 +
```

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                                                                 expandv.cpp
                                                                                           init.js
                                                                                                                  Phos chrome.py
172# 20230602 global t; map need to access t
173 def SM(s):
     s1 = " ".join(s.split())
     global t, t i
     t = s1.split()
     print( ' SM token list t ', t )
     L = len(t)
     i = 0
     while i<L:
       t i = i
       if ( t[i][-1]==':'):
         Lt=len(t[i])
         print( 'is :', 'f '+t[i][0:Lt-1])
          tf = 'f '+t[i][0:Lt-1]
          if tf in dir(lib aesgcm): # check tf in lib first, else globals() will not be able to find function defition
   in global
            print( tf, ' is defined')
            eval( 'lib aesgcm.'+tf+'()' )
          elif (tf=='f newtab'):
            print(' hard code execute script ')
            driver.execute script("window.open('"+ S.pop() +"')") # too complicated to eval quotes !!
          elif tf in dir(lib chrome): # check tf in lib manually, until too many, automate all
            print( tf, ' is defined')
            eval( 'lib chrome.'+tf+'()' )
199
          elif 'f '+t[i][0:Lt-1] in globals().keys():
```

Flash status bar icon when messa	ECHO {"a":"b","k":"j","d":"c","n":"m","c ECHO {"a":"b","k":"j","d":"c","n":"m","c	ibl":"221265.0"} ibl":"3399.0"}
Private Chat Chable private chat Only accept chats from pinned p.	[Mon 6pm] EE6AS9 ECHO {"a":"b","k":"j","d":"c","n":"m","c ECHO {"a":"b","k":"j","d":"c","n":"m","c ECHO {"a":"b","k":"j","d":"c","n":"m","c [13:04] BDF12C	ibl":"3326.0"} ibl":"3329.0"} ibl":"3330.0"}
Integration Make my friend key automatically Consider setting up your public prof	OMNI jo: gc: dup: hm: b a put: c d put: [13:04] EE6A59 ECHO {"a":"b","k":"j","d":"c","n":"m","c [13:52] EE6A59	ibl":"2430.0"}
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Advanced Share anonymous torrent and ch Unfortunately using separate de	ECHO {"a":"b","k":"j","d":"c","n":"m"," ECHO {"a":"b","k":"j","d":"c","n":"m"," [16:16] BDF12C OMNI jo: gc: dup: hm: b a put: c d put	Increa eve
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MMAGA Revenues 2023 (USD Total: USD 1.611 Trillion (+7.2



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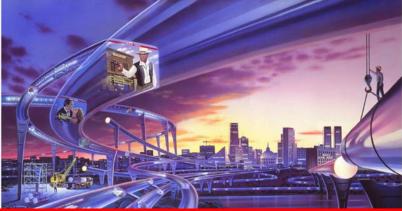
asing number of programmers are being laid off rery year, and Phoscript provides a pathway to train these programmers with metaprogramming, well as teach free software and abstract <u>athematics</u> to <u>high school students</u>. See <u>SymForth C++</u> example. (Monty Python) Joke: Use Phoscript to learn LISP. 6 metaprogramming magic words: String Split Array, Loop Push Eval.

"Anyone can program."

300 + d2s: dbl put: je

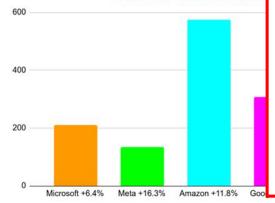
Did not have a pressing demand to promote Phoscript and FORTH, until now .... <u>Over BitTorrent</u> .... Should have discovered it earlier .... Why not?

Flash status bar icon when messa	ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"221265.0"} ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3399.0"} ///a=c====	
Private Chat Enable private chat Only accept chats from pinned p.	[Mon 6pm] EE6A59 ECHO {"a'tt'b', "k't']", "d't''c', "n't'm', "dbl't''3326.0"} ECHO {"a'tt'b', "k't']", "d't'c', "n't'm', "dbl't''3329.0"} ECHO {"a'tt'b', "k't']", "d't'c', "n't'm', "dbl't''3330.0"} [3:304] B0F12C	-
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Channel Restore Previously exported backup data	magnet:?xt=urn:btih:00af0929765f52687c8834fb9415d042fcfa77c8&dn=s10472-018-960 [23:23] EEGAS9 ECHO {"a':"b'',"K':"j',"d':"c'',"n':"m',"dbl':"3326.0"} ECHO {"a':"b'',"K':"j',"d':"c'',"n':"m',"dbl':"3329.0"}	
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Test	<i>[16:16] EE6A59</i> ECHO {"a":"b", "k":"j", "d":"c", "n":"m", "dbl":"2915.0"}	
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FORTH word vs. Hash

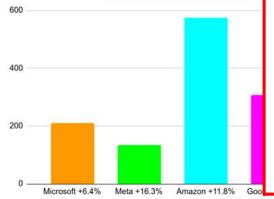
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While making a video tutorial to explain the concept of <u>hashcode</u> to <u>general viewers</u> on YouTube, I used <u>Hilbert's Infinite Hotel</u> as an example.
As <u>hash numbers</u> are simply <u>very large integers</u>, they fit in well with Hilbert's Hotel quite naturally. I.e.
In Decentralised Metaverse, you can a room in Hilbert Hotel whose <u>room number is a hash number</u>.

Selash status bar icon when messa	ECHO {"a":"b","k":"j","d":"c","n":"m"," ECHO {"a":"b","k":"j","d":"c","n":"m","				
Private Chat Private Chat Private chat Only accept chats from pinned p	[Mon 6pm] EE6A59 ECHO {"a":"b";"k":"j","d":"c","n":"m"," ECHO {"a":"b","k":"j","d":"c","n":"m"," ECHO {"a":"b","k":"j","d":"c","n":"m"," [13:04] BDF12C				
Integration Make my friend key automatically Consider setting up your public prof	OMNI jo: gc: dup: hm: b a put: c d put [13:04] EE6A59 ECHO {"a":"b","k":"j","d":"c","n":"m"," [13:52] EE6A59				
Channel Restore Previously exported backup data	<u>magnet:?xt=urn:btih:00af0929765f5</u> [23:23] EE6A59 ECHO {"a":"b", "k":"j", "d":"c", "n":"m"," ECHO {"a":"b", "k":"j", "d":"c", "n":"m","				
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## FORTH Word vs. Hash

<u>Automorphism</u>: entry to abstract mathematics <u>Omni\*Chat security</u>: Every WORD Definition has a unique hash (code).

- <u>Automorphism</u>: Each word is in turn defined by concatenation of a sequence of words.
- <u>Example</u>: same as Omnihash, hash of <u>list of hashes</u> is another hash.

(Big topic on its own. Beyond the scope here.) <u>Variable based programming languages</u> (VBPL) use random variable names in body – <u>disrupt hash</u> <u>calculations</u>. Corrected using Phoscript (converts VBPL to RPN / FORTH / Variableless Programming

<u>Languages</u> VLPL) (bridging VBPL & VLPL: most significant contribution?)

<u>Hash</u> relates the <u>technical aspect</u> to the <u>legal aspect</u> of texts.

Flash status bar icon when messa	ECHO {"a":"b","k":"j","d":"c","n":"m","c ECHO {"a":"b","k":"j","d":"c","n":"m","c	Jbl":"221265.0"} Jbl":"3399.0"}
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<ul> <li>Enable private chat</li> <li>Only accept chats from pinned p-</li> </ul>	ECHO {"a":"b","k":"j","d":"c","n":"m","c	ibl":"3329.0"}
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Meta +16.3%

Amazon +11.8%



FORTH word vs. Hash

+ d2s: dbl put: je

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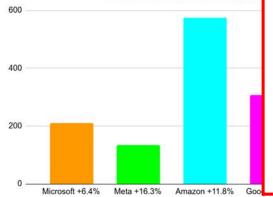
<u>HOL Light Tutorial</u>: introduction to abstract mathematics, LISP Ocaml. Convert to FORTH? <u>https://www.cl.cam.ac.uk/~jrh13/</u>

<u>Automorphism on Integers:</u> https://math.stackexchange.com/questions/156179/aut omorphism-on-integers</u>

<u>FORTH in Firefox</u>: very likely JavaScript engine is a stack machine, modify it to run FORTH. <u>OR</u> add other Intel x86 FORTH(s) into Firefox.

	Service Status bar icon when messa	ECHO {"a":"b", "k":"j", "d":"c", "n":"m", "d ECHO {"a":"b", "k":"j", "d":"c", "n":"m", "d	bl":"221265.0"} ibl":"3399.0"}
	Private Chat Chable private chat Only accept chats from pinned p	[Mon 6pm] EE6A59 ECHO {"a":"b","k":"j","d":"c","n":"m","d ECHO {"a":"b","k":"j","d":"c","n":"m","d ECHO {"a":"b","k":"j","d":"c","n":"m","d [13:04] BDF12C	lbl":"3329.0"}
	Integration Make my friend key automaticall Consider setting up your public prof	OMNI jo: gc: dup: hm: b a put: c d put: j           [13:04] EEGAS9           ECHO {"a": b", "k": "j", "d": "c", "n": "m", "d           [23:23] EEGAS9           magnet: 7xt=urn: btih:00af0929765f526           [23:23] EEGAS9           ECHO {"a": b", "k": "j", "d": "c", "n": "m", "e           ECHO {"a": b", "k": "j", "d": "c", "n: "m", "e           ECHO {"a": b", "k": "j", "d": "c", "n: "m", "e           ECHO {"a": b", "k": "j", "d": "c", "n: "m", "e           [6:16] BDF12C           OMNI jo: gc: dup: hm: b a put: c d put           [16:16] EEGAS9           ECHO {"a": b", "k": "j", "d": "c", "n: "m", "e           ECHO ["a": b", "k": "j", "d": "c", "n: "m", "e           ECHO ["a": b", "k": "j", "d": "c", "n: "m", "e           ECHO ["a": b", "k": "j", "d": "c", "n: "m", "e           ECHO ["a": b", "k": "j", "d": "c", "n: "m", "e           ECHO ["a": b", "k": "j", "d": "c", "n: "m", "e           ECHO ["a": b", "k": "j", "d": "c", "n: "m", "e	Ibl":"2430.0"}
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<u>Bitcoin & other Blockchains</u> are known to use FORTH like script for programming. (Same principle as Omni\*Chat?)</u>

00 + d2s: dbl put: je

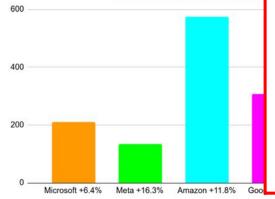
7c8&dn=s10472-018

Is <u>DNS the biggest obstacle</u> to Decentralised Cloud & Metaverse? Perhaps. If each server address costs USD10 per month, imagine the total cost saving GLOBALLY.

<u>BitTorrent & Blockchains</u> are 2 "Hyper DNS" (H-DNS) systems that are known to work well, but not as ubiquitous as web servers. Omni\*Chat shall change that. (H-DNS could mean "hidden", "hashed", etc.) Their source code can be examined to verify if they work on the same principles.

Sea Flash status bar icon when messa	ECHO {"a":"b", "k":"j", "d":"c", "n":"m", "dt ECHO {"a":"b", "k":"j", "d":"c", "n":"m", "dt	
Private Chat Chable private chat Only accept chats from pinned p.	[Mon 6pm] EE6A59 ECHO {"a":"b","K":"j", "d":"c", "n":"m","dt ECHO {"a":"b","k":"j", "d":"c", "n":"m","dt ECHO {"a":"b", "k":"j", "d":"c", "n":"m","dt [13:04] BDF12C	ol":"3329.0"}
Integration Make my friend key automatically Consider setting up your public prof	OMNI jo: gc: dup: hm: b a put: c d put: j [13:04] EE6A59 ECHO {"a":"b", "k":"j", "d":"c", "n":"m", "dt [13:52] EE6A59	
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Advanced Share anonymous torrent and ch Unfortunately using separate de	ECHO {"a":"b", "k":"j", "d":"c", "n":"m"," ECHO {"a":"b", "k":"j", "d":"c", "n":"m"," [16:16] BDF12C OMNI jo: gc: dup: hm: b a put: c d put	Not trying to
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Not trying to be ambitious, but Phoscript & Omnihash seem to be playing several crucial roles for Al development in the future:

- 1. <u>Phoscript</u> provides a low barrier of entry for non-FORTH programmers to learn FORTH, starting from the most popular programming languages such as PPJJCC (PHP, Python, JavaScript, Java, C++, C#).
- 2. Phoscript MAY help simplify future AI chip design with Homotronic Computing.
- 3. Omnihash makes Decentralised Cloud AI (DCAI) possible.

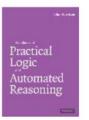


## John Harrison

Amazon Web Services 1455 SW Broadway, Suite 1300 Portland, OR 97201 USA

email: jrh013@gmail.com

My **book** code now has an <u>F# version</u> and the interactive part has an <u>SML version</u> Thanks to Eric Taucher, Jack Pappas, Anh-Dung Phan, Anders Schlichtkrull and Jørgen Villadsen.



I am a member of the Automated Reasoning Group at <u>Amazon Web Services</u>, after being previously at <u>Intel Corporation</u>. I'm interested in all aspects of theorem proving and verification and at Intel focused especially on numerical and mathematical applications. I'm also interested in floating-point arithmetic itself, and contributed to the <u>revision process</u> that led to the new IEEE 754 floating-point standard. Before joining Intel in 1998, I was a member of the <u>Automated Reasoning Group</u> at the <u>Computer Laboratory</u> of the <u>University of Cambridge</u>. I worked as a Research Associate and PhD student there, supervised by <u>Mike Gordon</u>, and after a spending a year in the <u>Department of Computer Science</u> of <u>Åbo Akademi University</u> in <u>Finland</u>, returned to Cambridge as a Research Associate working on <u>Floating Point Verification</u>.

- HOL Light theorem prover New Now hosted on Github
- <u>My papers and other publications</u> New Updated December 2015
- <u>Slides from some of my recent talks</u> NEW Updated December 2015
- <u>Code accompanying my recent book</u>
- Errata for the book
- My 1996 functional programming course NEW Russian version
- Detailed contact information

Page last updated Thursday 28th February 2019.

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D

Automorphism is a permutation of a set which respects some structure on the set. What structure? It varies. Automorphism is a general term and does not apply simply to groups, or rings.

Sorted by:

Highest score (default)

\$

In the context of  $(\mathbb{Z}, +)$  as an additive group, we say that  $f: \mathbb{Z} \to \mathbb{Z}$  is an automorphism if:

1. f is a bijection,

2. f(m) + f(n) = f(m+n),3. f(0) = 0.

Now suppose that f is an automorphism like that. Well, f(0) = 0. If f(1) = 1 then f has to be the identity, because for n > 0 we have

$$f(n) = f(\underbrace{1 + \ldots + 1}_{n \text{ times}}) = \underbrace{f(1) + \ldots + (1)}_{n \text{ times}} = \underbrace{1 + \ldots + 1}_{n \text{ times}} = n$$

and if n < 0 then

$$0 = n + (-n) = f(n) + f(-n) = f(n) + (-n)$$

and therefore f(n) = n as well.

Similarly if f(1) = -1 then f(n) = -n for all n. So these are two

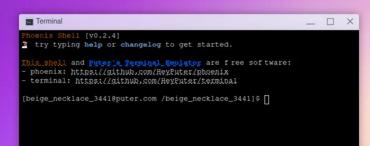
 $\underbrace{\mathbb{U}_L}_{around a directory instead of slashes?}$ 

2

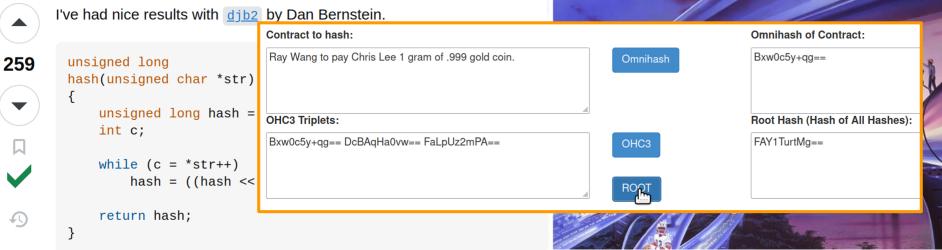
- Why use a special "Name" class (instead of just a string) for representing object names in C++?
- Is quantum gravity research implying that gravity is actually a force and not spacetime curvature according to GR?
- Legend issue with Log10 scaling on ListContourPlot
- ♂ What is 'T' rating on a glass fuse?
- How would a predator adapt to prey on sapient species?
- Importing Specific Data from a Text File
- How to select all the vertices on one side of an edge loop?
- Are there any languages where conditions are not first-class expressions?
- When submitting a letter to an agent for publication of a novel, what does it mean to say that your manuscript is "complete"?
- When or where did Gustave Flaubert say that Alexander Pushkin's work was "dull"?
- $\phi\,$  The fact/truth distinction and self-deception
- Would civilized bloodsuckers slaughter livestock or bloodlet them?
- Is it a cartesian product?
- Did Tolkien invent Bilbo saving the Dwarves but

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Trash







2021   1 gram (0.03 oz) 1 oz sold (all years combined)	Buy at 51.1%	Tier 1	RM542.57	Stocks in:
		Tier 2	RM542.34	JB - 0
		Tier 3	RM542.11	KL - 0
		Tier 4	RM541.88	Penang - 0
		Tier 5	RM541.65	
	Sell at +0.0%	1	RM358.77	
		% over gold, vie	ew details	

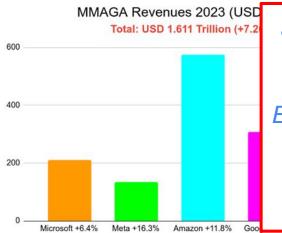


HXBC Hash Bullion Coin is simply a PROTOCOL to label a piece of gold or silver coin TEMPORARILY, in order to facilitate an online payment, between a payor and a payee.

The payee, upon receiving a HASHCODE representing a physical gold coin kept in the possession of a HXBC Agent or HXA, may instruct the Agent to redeem the payment in actual physical gold or silver coins, or in equivalent fiat or cryptocurrencies.

Go

🔽 Flas	- sh status bar icon when messa	ECHO {"a":"b","K":"j","d":"c","n":"m","dbl":"221265.0"} ECHO {"a":"b","K":"j","d":"c","n":"m","dbl":"3399.0"} ./Mon 6pm] EE6AS9		
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Enal	able private chat	ECHO {"a":"b","k":"j","d":"c","n":"m","dbl":"3329.0"}		
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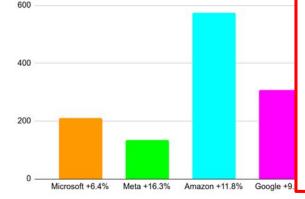


JavaScript PHP message example - <u>Jitsi Meet show Mobile version via AnyDesk?</u>

Extend Phoscript to Verilog etc. emphasis

	Search and the status bar icon when messa	ECHO {"a":"b","K":"j","d":"c","n":"m","dbl":"221265.0"} ECHO {"a":"b","K":"j","d":"c","n":"m","dbl":"3399.0"}		
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		Can se		

MMAGA Revenues 2023 (USD billi Total: USD 1.611 Trillion (+7.26%)





Vernor Vinge's "technological singularity".

Al needs to be Decentralised, using hash index for training data, starting with Omni\*Chat.

Can see initial progress of DCAI by end of 2025.

(Sorry Marvels fans for DC in Decentralised Cloud /s)

If Omni\*Web is indeed breakthrough, then it comes from continuous hardwork and unexpected places ...

Why not found earlier?

dbl put: je