Crypto-Metaprogramming: alternative to Model-View-Controller Architecture

Abstract:
We continue from the previous presentation to establish Crypto-Metaprogramming as an alternative to the conventional Model-View-Controller architecture. In conventional MVC, front end to back end communications employ public key cryptography but the key pair is not available at the disposal of the user or programmer. We change this scheme, with many benefits, starting with simplifying designs of a large range of applications.
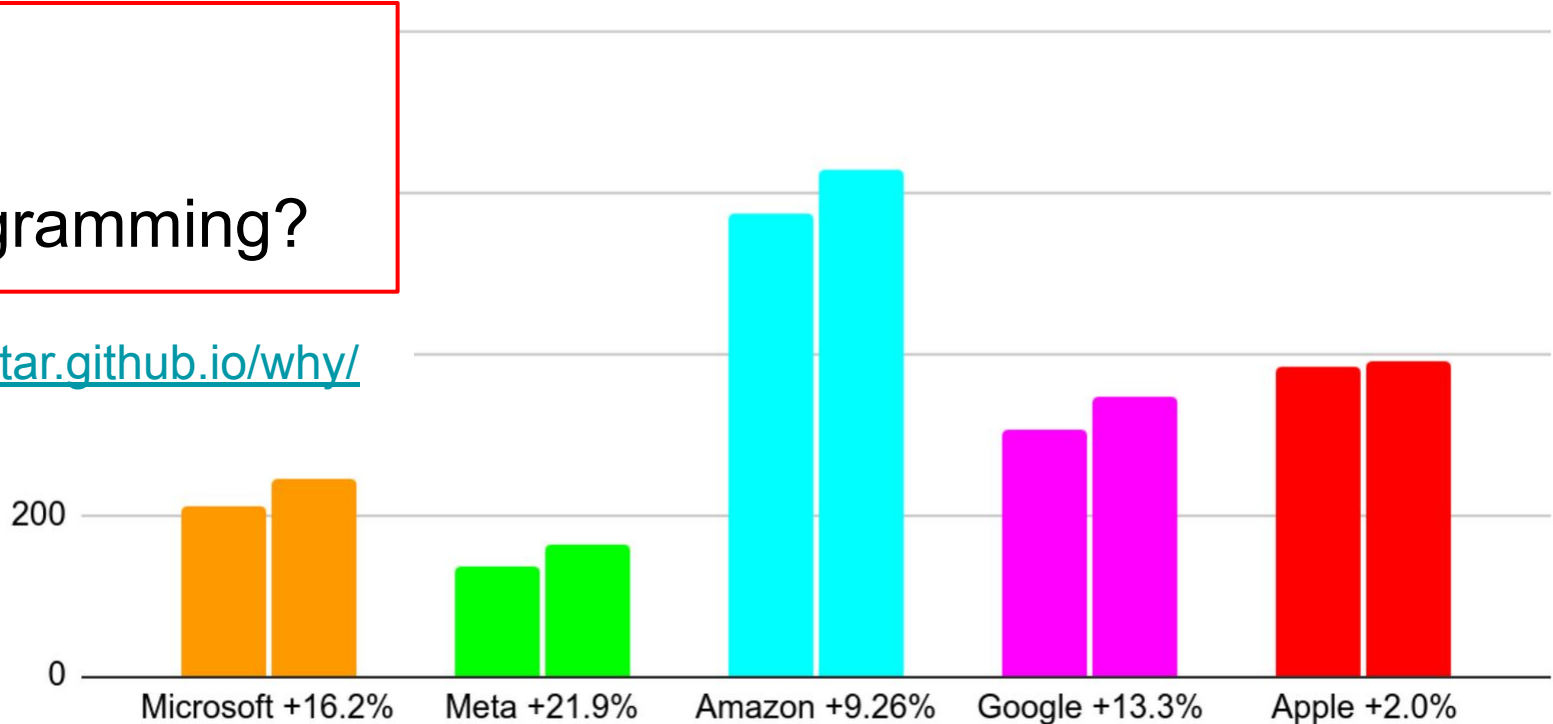
omnixtar.github.io/svfig
https://www.youtube.com/@mi4metaprogramminginforth666

MMAGA Revenues 2023/24 (USD billions)

Total 2024: USD 1.776 Trillion (+10.27%)

Why Crypto-Metaprogramming?

https://omnixtar.github.io/why/

Microsoft +16.2%   Meta +21.9%   Amazon +9.26%   Google +13.3%   Apple +2.0%

This presentation is slightly different from conventional technical presentations in that, we attempt to demonstrate how technical innovations may lead to social changes like French Revolution, which may be deemed politically incorrect by mainstream American audience.

As such, we employ analogies from Isaac Asimov's Foundation fiction universe, to illustrate how programmers may form one or more organisations and use Crypto-Metaprogramming to change the world, just like how Psychohistorians form one or more Foundations, and take actions to direct the course of Empire.

And we wish to invoke the Monty Python Disclaimer, to defend ourselves from political correctness accusations, where we urge all audience to consider unpopular and ridiculous ideas as future Monty Python plots.
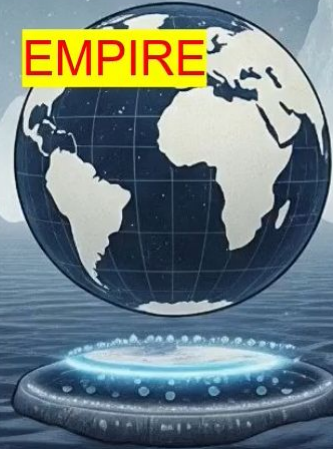
1. Introduction (5 minutes)
2. MVC vs. Crypto-Metaprogramming (5 minutes)
3. Kotlin Monocles Phoscript + Web based
4. Conclusions (5 minutes)

Abstract

We begin with defining Crypto-Metaprogramming as "Bitcoin, simplified, minus Blockchain". We then employ Hilbert Hotel room number to illustrate the significance of hash numbers and Hashcodes, and further employ Hilbert Casino and Hilbert Bazaar to illustrate decentralised digital assets, as well as using Hilbert Casino and Hilbert Bazaar as a generalised model for all computing applications. We then introduce the concept of Decentralised Legal Persona and Metanarchy, and argue that MMAGA (Microsoft, Meta, Amazon, Google, Apple) USD 1.8 trillion annual revenues should be imposed "open source tax", and better free software can be produced by collaboration, using Omnihash and DJSON Decentralised JSON. We also predict and propose to simulate our prediction using Omni*Web itself, of a world made up of Three Kingdoms, namely, United States of America, China and Metanarchy Federation, comprising all other nation states, from 2030 onwards.

Crypto-Metaprogramming

=

Bitcoin, simplified,

minus blockchains.

BITCOIN

Bitcoin: Technical Concepts

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

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.

1. Discovered by accident, PBK login video, show again.
2. DJSON video. Login. https://youtu.be/_w-E4Z4Ju5s?t=250 Hash of public key.

yo6sgmfq7pfvvp2e4kcuhjtfg   yo6sgmfq7pfvvp2e4kcuhjtfg

https://yo6sgmfq7pfvvp2e4kcuhjtfg7wfltt63igwcukhbmuqm6lu3a3a.**b32.i2p**/oxm/oxm.php?nn=adam   170%

adam session_id:adam-fer4f9qk69m9nj562u7kj5n2u9_31

session_id:adam-fer4f9qk69m9nj562u7kj5

Omni*Search Demo

Copy the following code and execute it in

f(': B_F '+ JSON.stringify({w:'like', t:'recipie

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:", 'lcdw:', 5 => 'B_AUTH',), 1 => array ('SP' => 'e3235b7f', 'PASS' => '20250210_043734', 'PBK' =>

🌐 mfq7pfvvp2e4kcuhjtfg7wfltt63igwcukhbmuqm6lu3a3a.b32.i2p

post ajax:

fgl_s 340 < 2 > array (0 => array (0 => '{"B_AUTH": ["SESSION:","AUTH","i:","s:",":"]}', 1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4 => 'lcdw:', 5 => 'B_AUTH',), 1 => array ('SP' => '93b164de', 'PASS' => '20250211_220742', 'PBK' => 'LS0tLS1CRUdJTiBQVUJMSUMgS0VZLS0tLS0KTUlJQ0lqQU5CZ2txaGtpRzl3MEJBUUVGQUFPQ0FnOEFNSUlDQ2dLQ0FnRUFyUlR1WJCL3NSc2dXMnNSeGhOUDlLWkNVRkJkdER5VXV1b3ozSC9YT05nYUlQWExgNHVwZFTUHU0QXhhWNUtkUnFBTWlMRl2lZTTZkajBqczkEzS3MvQlVNd0p3VW1lYmmtFL0NsZFbjsDcweExVVXNnQUl2OVNGOTRCSG2gmwWEZMODVJL2Vaa1NSem5RWHRsZnQvYYZjlTG4yMDFyelB3OGI0dDEi1Z2RvNHB5anNLBLz2NuS095SlAwZZNrckt0dWJCSG1SJjljlQW5YeXZraSszUUV4bSt3Z0JRWFhOR28yaHl2UFR3akhTVUVvdlhlwbzZKYXpiVm8vVlzZrTU9vK2tSTklLN5WW1manpyYYTGNzlZDMRrZjZjMveER4bGdQcaTg2K3dyRlBkBkNWZlCDQzOEIpK0pZMktltWnZxd1hxaVZ5ZSGIrTU1ENUJpaNDNmTnBpS0JsZXJBVU5wBY2pRTGhVZVE1Vlk0d2pUUczNMMZVMxaytLRHBZQVVhOR0StZIsVWVaSjVNVDhtMnBvZGG1M0V4WHJAya0JtZmI2ZmxRPWRRSZgdmdaZm1OQzJPBcUcyYXNYZ3pwWL05qZk5kakQyZWp0VUl0YkZ6NkFGZZKzNRQ3o4UGxpbZZ2WtdXJ6bG9lVVBMbnZQ5N5W9tVmZzUlFUzBWb1hqT1VnbDZNjnNdUxPMFBBxRk5oODDdyTWpvczJJYYTg4THpmQmh1UFJJN2pwVXd1Y1Y0pvbG1GMU3ZlYVUhd1d1NXWWl1ZUZVZmLJlV3Ux0UxWlhuUK1pzRzhEkdMR3ICci9XYkxuTVo1Nkv0uZzdYVzBMVURGVFVlXNWRE1VG95VVVNDDbi9ua1dYUкp6HUHRcGFwUHtmVGNNPеkFDUVEVTak9GYnZFQWNkbGMrWVVpBBK0U1bXVBYmVtVnNNpcVQwN3pzNkt0Qk9r9rBWRtNVJjjMXVvOENBd0VBQVE9PQotLS0tLUVORCBQVUJMSUMgS0VZLS0tLS0=', 'NN' => 'adam',),)

☐ Don't allow yo6sgmfq7pfvvp2e4kcuhjtfg7wfltt63igwcukhbmuqm6lu3a3a.b32.i2p to prompt you again

OK

DSC

cmd

123

Encrypted_Message

Any_other_remarks

Misc

SEND   GET

yo6sgmfq7pfvvp2e4kcuhjtf⊂× · yo6sgmfq7pfvvp2e4kcuhjtf⊂× · +

https://yo6sgmfq7pfvvp2e4kcuhjtfg7wfltt63igwcukhbmuqm6lu3a3a.**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:
'LS0tLS1CRUdJTiBQVUJMSUMgS0VZLS0tLS0KTUlJQ0lqQU5CZ2txGtpRzl3MF
'NN' => 'adam',),)

fgl_s 340 < 4 > array (0 => array (0 => '{"B_AUTH1":
["SESSION:","AUTH","i:","PBK","i:","o_hash.json","l_cdwjs","h
1 => 'jd:', 2 => 'cdw:', 3 => 'am:', 4 => 'lcdw:', 5 => 'B_AUTH1'
array ('a_cmd' => array (0 => 's:', 1 => ';',), 't_f0' => '2025-0:
'Graph/dmeta/CXAGcRKevA==',) [{"a_cmd":["s:",";"],"t_f0":"2
{"r":"Graph\/dmeta\/CXAGcRKevA==","t":"2025-02-10T00:38:
fgl_s 340 < 2 > array (0 => array (0 => '{"B_AUTH":["SESSI(
'lcdw:', 5 => 'B_AUTH',), 1 => NULL,)

fgl_s 340 < 2 > array (0 => array (0 => '{"B_AUTH":["SESSI(
'lcdw:' 5 => 'B AUTH') 1 => array ('SP' => 'e3235b7f' 'PAS'S' => '20250210 043734' 'PBK'
```

DSC

cmd

123

Encrypted_Message

Any_other_remarks

Misc

adam

s: x:

AUTH · GenKeys · SEND · GET

```javascript
// 2023-02-05 GenKeys
S.push(document.createElement('button'));
S.push(document.createTextNode('GenKeys'));
n = S.length - 2;
d_form.append(S[n]);
S[n].append(S[n + 1]);
S[n].className = 'form-container btn';
S[n].onclick = function () {
    alert('GenKeys');
    S0 = M.S[0];

    // 20230602
    // After GenKeys button is clicked, check dialogue box for text — must have filename for pem
file, and optional password, or Phoscript expression, else execute default generate keys.

    // if S0.K is already loaded, just run AUTH_CSV: no need savekp:
    if (typeof S0.K !== 'object') {
        M.F(': save_auth savekp: ' + get_param.nn + ' AUTH_CSV: ; awt: rsa_oaep: save_auth ');
        console.log('after rsa_oaep:', M.S);
    } else {
        M.S.push(S0.K.s_pbk); // 20230616 need s_pbk somehow!! for back end!!
        M.S.push(S0.K.pair);
        M.F(get_param.nn + ' AUTH_CSV:');
    }
```

Front End

Back End

PBK (Public Key) → PBK (Public Key)

+

Secret Phrase (SP)

↓

Ciphertext ← Ciphertext

+

PVK (Private Key)

↓

Secret Phrase (SP) → Secret Phrase (SP)

Root CA Certificate
Contains the Root CA's Public Key

/s/ Self-signed by Root CA's Private Key

Intermediate CA Certificate
Contains the Intermediate CA's Public Key

/s/ Also signed by the Root CA's Private Key

TLS Server Certificate
Server's Domain Name(s) and also its Public Key

/s/ Signed by the Intermediate CA's Private Key

https://support.mozilla.org/en-US/kb/secure-website-certificate

libphos.js
/var/www/dmeta/oxm/Phos
Open ⌄   ⊞   Save   ☰   —   ▭   ✕

c_pvk.pem ✕   d_pvk.pem ✕   rsa.sh ✕   libphos.js ✕   e_pvk.pem ✕   donald_keypair.js ✕   libphos.php ✕   init.js ✕   libfgl.php ✕   libuui.php ✕   alias.php ✕   gui_dsc.js ✕

```javascript
460          $.F(arguments[0], 'je: xsend:');
461      }
462      function f_B() {
463          var bex = '3 4 + Graph rn: s:';
464          var F = M.F;
465          var S0 = window.M.S[0];
466          console.log('  in f_B S0.CDW', JSON.stringify(S0.CDW));
467          var $a;
468          var BEA;
469          // if (typeof M.S[0].dlb.PHOS !== 'undefined')
470          if (typeof window.S[0].dlb.PHOS !== 'undefined') // PHOS in pushed to window.S !!
471              $a = window.S[0].dlb.PHOS[1].value;
472          if (S0.CDW.length > 1) {
473              var n_a = S0.CDW[S0.CDW.length - 1][0];
474              $a = S[0].$CDW[n_a];
475          } else if (Object.keys(S[0].$CDW).indexOf($a) >= 0) {
476              console.log(Object.keys(S[0].$CDW).indexOf($a));
477              $a = S[0].$CDW[$a];
478          } else {
479              var s0 = preg_replace('/s+/', ' ', $a);
480              $a = explode(' ', trim(s0));
481          }
482          BEA = $a[$a.indexOf('B:') + 1];
483          var BEA_a = S[0].$CDW[BEA];
```

```javascript
646      }
647      async function f_AUTH_CSV() {
648          var NN = S.pop();
649          var K = S.pop(); // key pair, K.privateKey decrypt secret phrase ciphertext after ajax
650          console.log(arguments);
651          var pbk = S[S.length - 1]; // s_pbk sent to server to encrypt secret phrase
652          console.log(pbk);
653          $.F('nxhr: auth/phos.php xo: xsrqh:');
654          var t = S.length - 1;
655          var ajax = S[t];
656          S[t].onreadystatechange = async function () {
657              if (ajax.readyState == 4 && ajax.status == 200) {
658                  console.log(ajax.responseText);
659                  var E1 = ajax.responseText;
660                  var D1 = await window.crypto.subtle.decrypt({ name: 'RSA-OAEP' }, K.privateKey,
str2ab(atob(E1)));
661                  console.log(ab2str(D1));
662                  var a_csv = ': auth_csv dts: PASS ka: AUTH uss: ' + btoa(pbk) + ' PBK ka: AUTH
uss: ' + NN + ' NN ka: AUTH uss: ; ';
663                  B(a_csv + ab2str(D1) + ' AUTH gsv: SP i: cmp: 0 ifeq: auth_csv b chromy ' + btoa
(pbk) + ' ON ECHO bv: ec: ec:');
664              }
665          };
666          $.F(btoa(pbk) + ' req_auth_sc', 'je: xsend:');
667      }
```

"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:",";"]

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\/","

```php
553 function fgl_lkey()
554 {
555     global $S;
556     $keystr = array_pop($S);
557     $key = end($S);
558     $key->loadKey($keystr);
559 }
```

```php
344 function fgl_rsa()
345 {
346     global $S;
347     $key = new RSA();
348     $S[] = $key;
349 }
```

```php
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 }
```

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

```php
            }
          }
        }
      }
    }
}

function FGL($a)
{
    global $argv, $S, $SS, $xk, $xs, $SC, $SL, $CDW, $BV;
    $a = preg_replace('/\\s+/', ' ', $a);
    $a = explode(' ', trim($a));
    $SS[] = array(0, $a);
    if (isset($D)) {
        echo "\n\n" . __FUNCTION__ . " " . __LINE__ . " " . var_src($SS);
    }
    $xc = count($SS);
    $xk =& $SS[$xc - 1][0];
    $xs =& $SS[$xc - 1][1];
    $xl = count($SS[$xc - 1][1]);
    $vk = $xk;
    $Z = $xl;
    if (isset($D)) {
        echo "\n" . __FUNCTION__ . " start " . __LINE__ . " vk " . $vk . " Z " . $Z . " SS " . var_src($SS) . "\n";
        $S[] = $vk;
```

```php
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   Save

c_pvk.pem × d_pvk.pem × rsa.sh × libphos.js × e_pvk.pem × donald_keypair.js × libphos.php × init.js × libfgl.php × libuui.php × alias.php × gui_dsc.js ×

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

underlying Bitcoin and other cryptocurrencies as well as novel decentralised social media platforms as we shall see in the following example:

- how to add a like function to **this** GitHub markdown article

We will reveal the answer first and explain later as we assume there are readers who are impatient:

- ```["2025-02-11T14:25:28.207+0000","like","CXAGcRKevA==","CXAGcRKevA==","HymWBzfj9A==","HymWBzfj9A== s:x:"]```

In the DJSON above, the fields are:

- timestamp, action, current_user_ID, prev_msg_owner, doc_hash, messages

doc_hash means hash of URL of document.

The following are the steps for generating the "like" DJSON of this article, accompanied by a video:

1. Save a copy of this web page as a local file.
2. Generate doc_hash for this document.
3. Make a subdirectory for this document with doc_hash.

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

MI4 Metaprogramming in Forth
56 subscribers

Subscribed

DJSON Decentralised JSON is simply a JSON string containing one or more hashcodes, with at least one of them being the hash of public key of a user, thereby defining the decentralised legal persona of the user, and the ownership of the digital assets represented by other parts of the JSON string.

Omnihash is simply a hash code used to represent any type of digital assets, including user identifier, and a DJSON Decentralised JSON string can be converted to Omnihash using any hash function.

1. Introduction (5 minutes)
2. MVC vs. Crypto-Metaprogramming (5 minutes)
3. Kotlin Monocles Phoscript + Web based
4. Conclusions (5 minutes)

MI4 Metaprogramming in Forth

Activities — Unknown — Kha 7 Ogos, 21:50

omnixtar.github.io/hs/?ctx=on

xzoom x3

Omni* Omnihash

Omnihash GenKeys Save Help

Load Keypair
Browse... No file selected.

Your Hash is undefined
Your Parent Hash is root
You have 0 downlines.

{ "x":"REG", "p":"root", "h":"Cojzqombug==", "t":"2
025-08-07T09:21:22.664Z"}

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

0:59 / 14:13

More videos
Tap or swipe up to see all

Conclusions (Part 1 & 2)

Crypto-Metaprogramming (CMP) is as easy as web programming as it does not require Blockchain to achieve both cryptographic and meta- programming functionalities.

CMP greatly simplifies Model-View-Controller architecture (and others), making each component essentially sending DJSON (Decentralised JSON) to other components, using standardised metaprogramming scripts (FORTH / Phoscript).

- *"JSON is the App."*
- *Any app is a survey app.*

Conclusions (Part 1 & 2)

By simplifying web and mobile app programming, it makes _CLONING_ MMAGA (Microsoft, Meta, Amazon, Google, Apple) services achievable:

1. Open Source Tax: 0.1% of revenues (track usage of source code with Omnihash)
2. Collaboration amongst free software programmers an users using Omnihash (hash code for all digital assets).

MMAGA Revenues 2023/24 (USD billions)

Total 2024: USD 1.776 Trillion (+10.27%)

Why Crypto-Metaprogramming?

https://omnixtar.github.io/why/

200

0

Microsoft +16.2%   Meta +21.9%   Amazon +9.26%   Google +13.3%   Apple +2.0%

	Programmers	Users	Politicians / SciFi
Omnihash + DJSON	Omnihash + DJSON	Hilbert Hotel Hash Room Numbers	
Crypto-Metaprogramming	Alternative to MVC	Hilbert Casino	Asimov's Foundation

How to explain these concepts to all types of audiences?

Essence of Crypto-Metaprogramming:

In MVC, each of Model, View, Controller is part of a different environment, connected via network or pipe. Hence Front End and Back End need to provide secure protocols for communications amongst the components.

In Crypto-Metaprogramming, programmers take control of security protocols, simplifying each of Model, View, Controller component with (Phoscript) metaprogramming.

- We extend the infinity paradox of Hilbert Hotel to Hilbert Casino, where there are an infinite number of tables, of an infinite number of games, with infinite number of players, each having an infinite number of chips.
- Hilbert Casino can be easily extended to become Hilbert Bazaar, (in order to appeal to Islamic countries which ban gambling)
    - hosting all kinds of electronic transactions, where payments for goods and services replace betting and winnings.
- We assume that there are more people interested in participating in the development of an online casino than an electronic commerce platform, as the former is perceived to be giving bigger and faster returns, although both are equivalent from a technical perspective.
- Bonus Question for the Mathematically Inclined:
    - Relationships of Infinity with Alan Turing's Universal Turing Machine?

My First Survey

omnixtar.github.io/hs/

Omnihash　　GenKeys　　Save　　Help

Load Keypair

Browse…　No file selected.

{"x":"REG","p":"root","h":"BWbhVr0
"2025-08-23T09:14:27.773Z"}

Your Hash is BWbhVr0DQQ==
Your Parent Hash is root
You have 0 downlines.

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

Enter your first name:

Omnihash Memberships for SVFIG,
or Any Commercial or Charity Bodies!!
The Biggest Membership Multilevel Marketing Scheme by virtue of Hilbert Hotel – Infinity!!
Enabled by I2P Invisible Internet Project
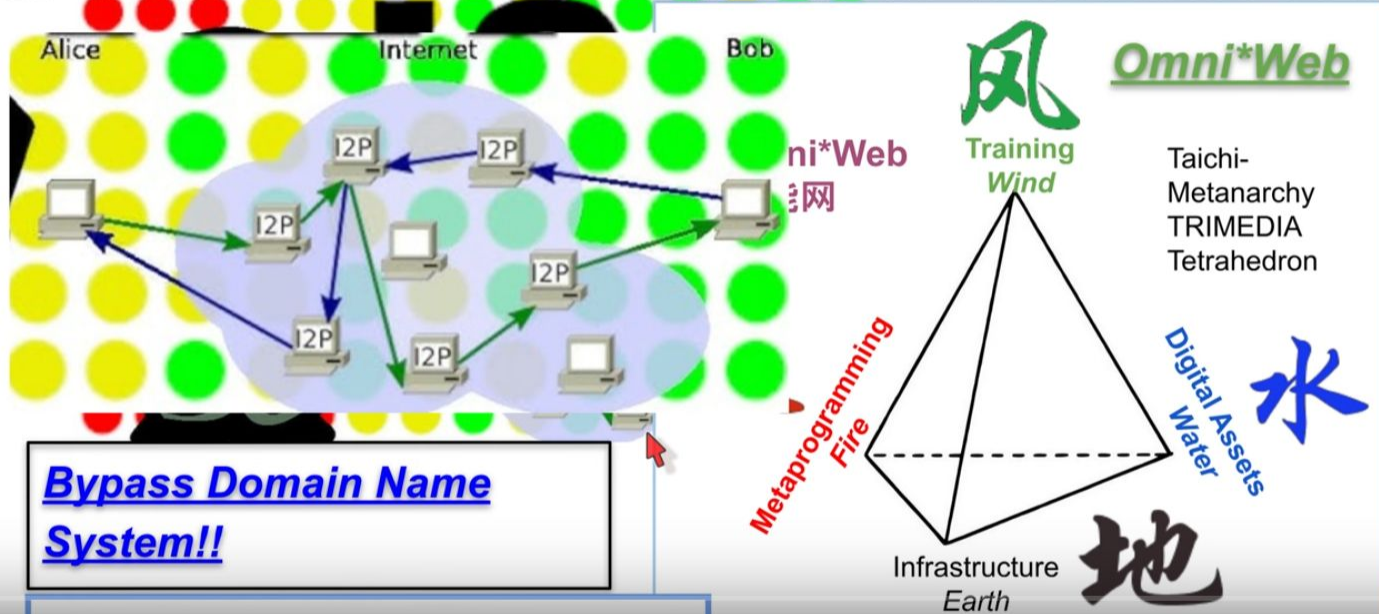
Omni*Web: Set Up YrOwn GLOBALLY ACCESSIBLE Web Server w/o Domain Name System in 4 Simple Steps (I2P)

MI4 Metaprogramming in Forth

Subscribed

	Programmers	Users	Politicians / SciFi
Omnihash + DJSON	Omnihash + DJSON	Hilbert Hotel Hash Room Numbers	
Crypto-Metaprogramming	Alternative to MVC	Hilbert Casino	Asimov's Foundation

Omnihash: a hash code (53 bit base-64 string) representing any kind of digital assets, from user identifier to data and source code.

DJSON (Decentralised JSON): a JSON string (object) containing one or more Omnihash.

Abstraction of source code: Phoscript on PHP, JavaScript etc.

	Programmers	Users	Politicians / SciFi
Omnihash + DJSON	Omnihash + DJSON	Hilbert Hotel Hash Room Numbers	
Crypto-Metaprogramming	Alternative to MVC	Hilbert Casino	Asimov's Foundation

We adapted Hilbert hotel paradox by using hash codes or hash numbers

as hotel room numbers, to help ordinary users appreciate their applications.

E.g. Hotel Room Number = User Identifier

Anything inside a hotel room = digital asset (see DJSON + Omnihash)

	Programmers	Users	Politicians / SciFi
Omnihash + DJSON	Omnihash + DJSON	Hilbert Hotel Hash Room Numbers	
Crypto-Metaprogramming	Alternative to MVC	Hilbert Casino	Asimov's Foundation

Crypto-Metaprogramming:

Crypto: Omnihash + DJSON
Metaprogramming: Phoscript on ANY programming language host environment

	Programmers	Users	Politicians / SciFi
Omnihash + DJSON	Omnihash + DJSON	Hilbert Hotel Hash Room Numbers	
Crypto-Metaprogramming	Alternative to MVC	Hilbert Casino	Asimov's Foundation

We extend the infinity paradox of Hilbert Hotel to Hilbert Casino, where there are an infinite number of tables, of an infinite number of games, with infinite number of players, each having an infinite number of chips.

Hilbert Casino = Any kind of digital transaction system = Hilbert Marketplace / Hilbert Bazaar (Gambling illegal in Islam)

Must highlight Omnihash Decentralised User Identifier, Decentralised Legal Persona, as fundamental concept of all. User ID first, then digital assets.

Decentralised Legal Persona, the most dangerous concept since Communist Manifesto? Revolution without violence. Why? Users protect their own digital assets, unless forcibly robbed of private key. Star Wars Order 66?

Ease (effort) to spread, literally one click, as shown in Omnihash button demo.

Reason why Metanarchy is achievable.

FORTH – unlike Psychohistory, not sure if Asimov know, other FORTHers may attest, simplify programming so EVERYONE CAN PROGRAM.

Any user, including non-programmer, may be able label a function with any string in any human natural language, and quote it for execution in Phoscript.

Any user capable of describing an action (in any human natural language) may recognise it when performed by another actor, then label it as per FORTH colon definition.

If user can define one CDW, he can do 2, 3, 4 …. Everyone can do metaprogramming. And make money from it.

Hilbert Hotel room guest card is the first step to understand and model the above.

1. Introduction (5 minutes)
2. MVC vs. Crypto-Metaprogramming (5 minutes)
3. Kotlin Monocles Phoscript + Web based
4. Conclusions (5 minutes)

https://www.mojeek.com/

✕ 🟩 Mojeek ＋

mojeek

☰

No Tracking. Just Search... 🔍

🔍 Looking for different results?

🔒 Value your right to privacy?

🏃 Trying to escape big tech?

Privacy   Terms   Settings

◁ ○ □

---

https://f-droid.org/packag

✕ 📦 monocles browser | F-D... ＋

🤖 F-Droid

APPS   FORUM   DOCS   NEWS   ISSUES

CONTRIBUTE   ABOUT

monocles browser

A web browser that respects your privacy.

New in version 1.9.2

• Expand the download provider options to be monocles browser, Android's download manager, and an external app.
• Remove wasted space between the navigation drawer icon and the URL bar.
• Add a scroll to bottom/top entry in the navigation menu.
• Add an option to display under camera cutouts in full-screen browsing mode.
• Fix a crash caused by a tab sometimes being created without a corresponding page.

◁ ○ □

---

https://codeberg.org/mon

✕ 🔺 monocles/ monocles_br... ＋

☰

😐 monocles / monocles_browser

📡   👁 6   ⭐ 14   🍴 4

⟨⟩ Code   ⊙ Issues 29   ...

Release of the monocles browser. A open source privacy respecting android browser. Based on the privacy browser by Soren Stoutner. https://monocles.eu/more

🕐 277 commits   🍴 2 branches
🏷 18 tags   🗄 746 MiB

🍴 main ▾   ⇅   Find a file

HTTPS   https://codeberg.org/monocles   📋   ...

🔺 Arne Fix up   7 months ago

📁 .gradle   7 months ago

📁 .idea   7 months ago

📁 app   7 months ago

📁 build/reports/configuratio   last year

◁ ○ □

:: 55 33 + d2s: cwv: sb:

m :: 5 3 + d2s: cwv: sb: - Mo…

:: 5 3 + d2s: cwv: sb:

Web Summary Images News

Results 0 to 0 from 0 in 0.16s

No pages found matching: :: 5 3 + d2s: cwv: sb:

Try elsewhere:

Brave Ecosia Startpage

8.0

1 2 3 4 5 6 7 8 9 0

@ # £ _ & - + ( ) /

=\< * " ' : ; ! ?

ABC , 1234 English .

https://www.mojeek.com/
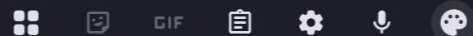
m :: 55 33 + d2s: cwv: sb: - Mo…

:: 55 33 + d2s: cwv: :

Web Summary Images News

Results 0 to 0 from 0 in 0.16s

No pages found matching: :: 55 33 + d2s: cwv: sb:

Try elsewhere:

Brave Ecosia Startpage

Submit feedback

:: 55 33 + d2s: cwv: sb:

Melaka, MY – detected automatically | Change

88.0

MB monocles_brows... ⌄ | main ⌄ | HONOR ALI-NX1 ⌄ | app ⌄

MainWebViewActivity.kt ✕

```
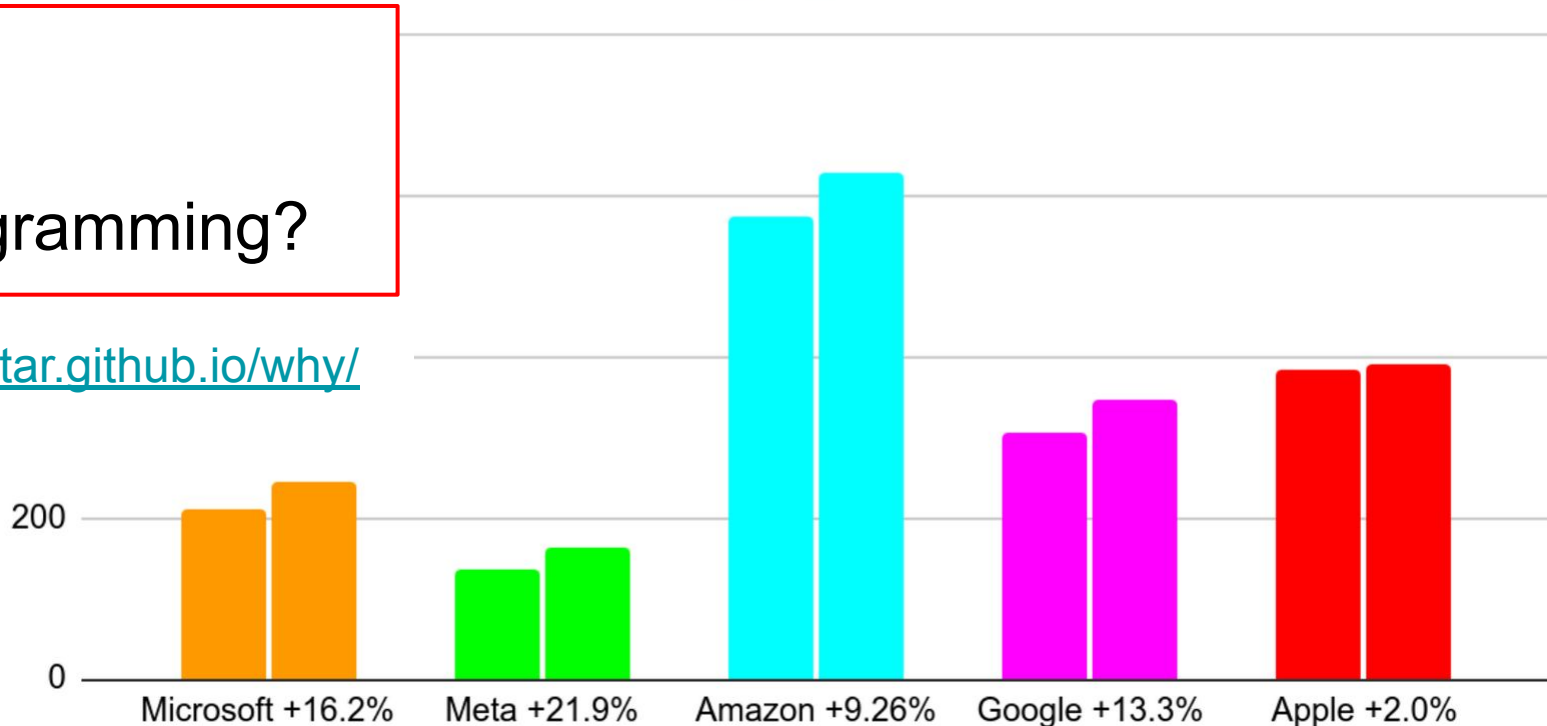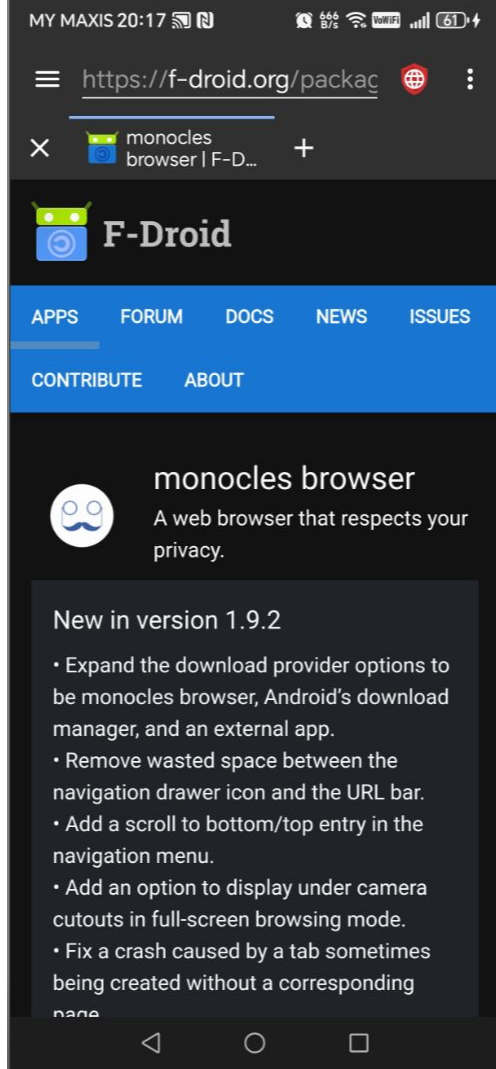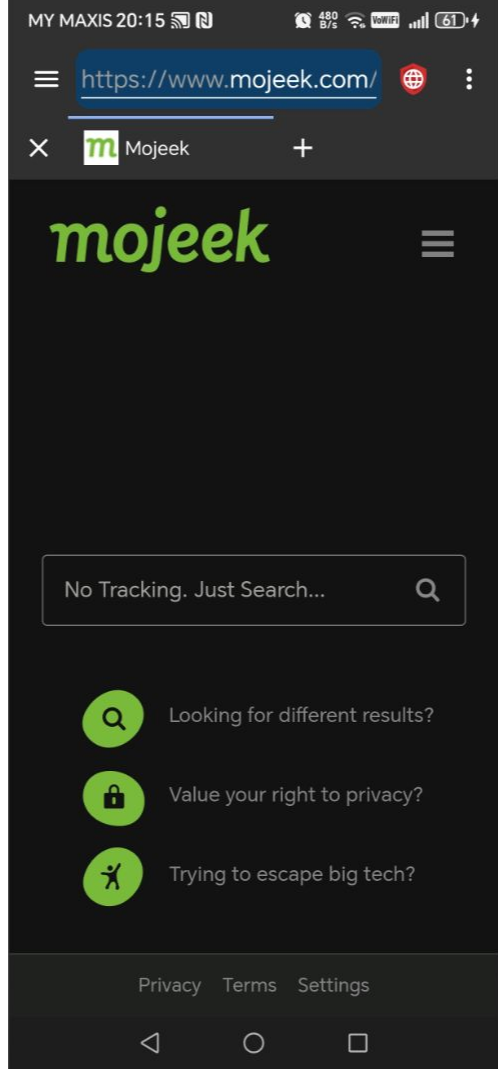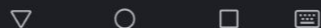250        class MainWebViewActivity : AppCompatActivity(), CreateBookmarkDi    ⚠97  ⚠16  ✓98
6045           private fun f_sb() {
6047                    Snackbar.make( view = currentWebView!!, text = stack.pop(),
                            duration = Snackbar.LENGTH_INDEFINITE).show()
6048           }
6049
6050           private fun f_alert() {
6051               // Snackbar.make(currentWebView!!, stack.pop(), Snackbar
                          LENGTH INDEFINITE) show()
```

Logcat   Logcat ✕   +

HONOR ALI-NX1 (A9CE6R4326004026) Android 15, API ⌄ | package:mine is:info -line:Surface

```
2025-07-23 20:23:28.786 27585-27585            I  unregisterDeviceIdChan
2025-07-23 20:23:28.786 27585-27585            I  unregisterForContextMe
2025-07-23 20:23:28.786 27585-27585            I  unregisterReceiver
2025-07-23 20:23:28.786 27585-27585            I  unregisterScreenCaptur
2025-07-23 20:23:28.786 27585-27585            I  updateServiceGroup
2025-07-23 20:23:28.786 27585-27585            I  validateRequestPermiss
2025-07-23 20:23:28.787 27585-27585 search     I  Result: 88.0
2025-07-23 20:23:28.787 27585-27585 phos       I  in loadUrlFromTextBox
2025-07-23 20:23:28.787 27585-27585            I  in loadUrlFromTextBox
2025-07-23 20:23:28.787 27585-27585 getCWV     I  in getCWV() true
2025-07-23 20:23:28.787 27585-27585 phos       I  in loadUrlFromTextBox
```

MainWebViewActivity.kt

loadUrl   27/37

```kotlin
250        class MainWebViewActivity : AppCompatActivity(), CreateBookmarkDi...
6313            private fun loadUrlFromTextBox() {  1 Usage

6319                if (unformattedUrlString.substring(0,3)=="::  ") {
6320                    Log.i( tag = "search", msg = unformattedUrlString + " is phos")
6321                    // val expression = "2 3 + 5 *".split(" ")
6322                    val expression = unformattedUrlString.split( ...delimiters = " ")
6323                    // val result = evaluateRPN(expression)
6324                    val result = evalPhos( tokens = expression)
6325                    // println("Result: $result") // Output: Result: 25.0
6326                    Log.i( tag = "search", msg = "Result: $result") // Output: Result:
                        25.0

6327
6328                try {
6329                    Log.i( tag = "phos", msg = "in loadUrlFromTextBox "+(R.id
                        .root_framelayout::class.simpleName))
6330                    Log.i( tag = "phos", msg = "in loadUrlFromTextBox
                        currentWebView!! "+((currentWebView!!)!=null))
6331                    Log.i( tag = "phos", msg = "in loadUrlFromTextBox getCWV()
                        "+((getCWV())!=null))
6332                } catch (e: Exception) {
```

```kotlin
class MainWebViewActivity : AppCompatActivity(), CreateBookmarkD    ⚠97  ⚠16  ✓98

        val sd = Stack<Double>()
        val stack = Stack<String>()


        // default stack of string
        // convert to double or whatever type in function
        private fun evalPhos(tokens: List<String>): String {  1 Usage
            // val sd = Stack<Double>()
            // val stack = Stack<String>()


            // val eng = ScriptEngineManager().getEngineByExtension("kts")!!
            //    val result = engine.eval("2 + 3")
            //    println(result) // Output: 5


            for (token in tokens) {
                Log.i( tag = "RPN", msg = token)
                when (token) {
                    "+", "-", "*", "/" -> {
                        if (stack.size < 2) {
                            throw IllegalArgumentException( s = "Not enough operands
```

monocles_browser   main   No Devices   app

MainWebViewActivity.kt

evalp   1/4

```
250         class MainWebViewActivity : AppCompatActivity(), CreateBookmarkDi    97   16   98
6148             private fun evalPhos(tokens: List<String>): String {  1 Usage

6253                     val ownerClassName = "de.monocles.browser
                             .activities.MainWebViewActivity"
6254                     val kClass = Class.forName(ownerClassName)
                             .kotlin
6255                     val myObject = kClass.createInstance()
6256                     // val hasMethod = myObject::class.members.any
                         { it.name == "f_test" }
6257                     val hasMethod = myObject::class.members.any {
                             it.name == "f_"+token.substring(0,token
                             .length-1) }
6258                     // val mPhos = myObject::class.members.single
                         { it.name == "f_test" }
6259                     val mPhos = myObject::class.members.single {
                             it.name == "f_"+token.substring(0,token
                             .length-1) }
6260                     val obj = kClass.primaryConstructor?.call()
6261
6262                     if (b_cpf) {
```

```kotlin
class MainWebViewActivity : AppCompatActivity(), CreateBookmarkDi

        private fun f_alert() {
            // Snackbar.make(currentWebView!!, stack.pop(), Snackbar
                .LENGTH_INDEFINITE).show()
            // loadUrl(currentWebView!!, urlString)
            // val urlString = "javascript:alert('WebView')"
            val urlString = "javascript:alert('"+ stack.pop() +"')"
            loadUrl( nestedScrollWebView = currentWebView!!, url = urlString)
        }

        private fun f_cwv() {  1 Usage
            try {
                Log.i( tag = "phos", msg = "in f_cwv "+(R.id.root_framelayout::class
                    .simpleName))


                val fields = MainWebViewActivity::class.declaredMemberProperties
                for (i in fields){
                    Log.i( tag = "Fields ===", msg = i.name)
                }
                // val f = fields.single { it.name == "currentWebView" }// as
                    NestedScrollWebView
```

:: 3 4 + d2s: alert:

:: 3 4 + d2s: alert: - Mojee…

m :: 3 4 + d2s: alert:

Web Summary Images News

Results 1 to 10 from 1,403 in 0.22s

The following results matched your query but are likely to have limited relevance.

Using words that might appear on the page you're looking for could help. For example, 'cake recipe' instead of 'how to make a cake'.

https://github.com › krisives › d2s-format

q w e r t y u i o p
a s d f g h j k l
z x c v b n m

?123 / English .

Undo
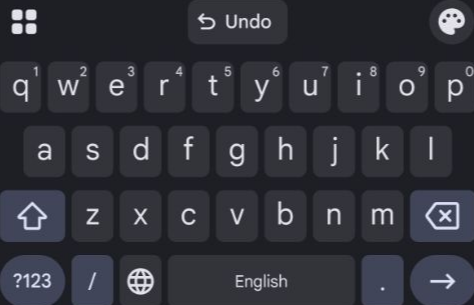
:: 3 4 + d2s: alert:

:: 3 4 + d2s: alert:

Loading…

mojeek

The page at "https://www.mojeek.com" displays:

7.0

OK

Privacy Terms Settings
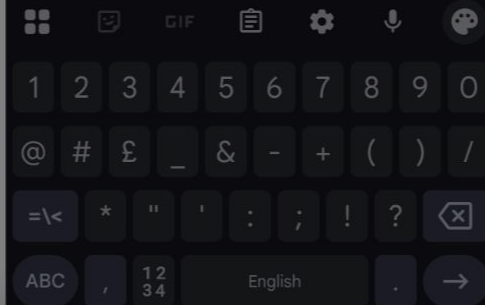
1 2 3 4 5 6 7 8 9 0
@ # £ _ & - + ( ) /
=\< * " ' : ; ! ?

ABC , 1234 English .

1. Introduction (5 minutes)
2. MVC vs. Crypto-Metaprogramming (5 minutes)
3. Kotlin Monocles Phoscript + Web based
4. Conclusions (5 minutes)

Conclusions

We begin with *MMAGA (Microsoft, Meta, Amazon, Google, Apple) total revenues in 2024 nearly USD 1.8 trillion*, and propose using *Omnihash & DJSON Decentralised JSON* to *track usage of digital assets*, and claim *Open Source Tax*, and *improve collaboration* amongst free software programmers and users.

Crypto-Metaprogramming greatly simplifies Model-View-Controller architecture (and others), making each component essentially sending DJSON (Decentralised JSON) to other components, using standardised metaprogramming scripts (FORTH / Phoscript).

- *"JSON is the App."*
- *Any app is a survey app.*

Conclusions

0.1% of MMAGA 2024 revenues is USD 1.8 billion.
  - Can we achieve this by 2030?
If Free Software Programmers & Users achieve this, what else can Decentralised Legal Persona & Metanarchy achieve?
  – Omnihash Bullion Coin (HBC)
We predict and propose to simulate our prediction using Omni*Web itself, of a world made up of Three Kingdoms, namely, United States of America, China and Metanarchy Federation, comprising all other nation states.

HBC: Omnihash Bullion Coins

1. HBC: Omnihash Bullion Coins (Physical Gold/Silver),
2. Trispecies Monetary System: Bullion, Fiat, Crytocurrencies
3. Liberalism vs. "Omnipotent Government" (OGism!!)

Adam (User) → Omnihash: 10g .999 Gold → Donald (User)

Adam (User) ↓ Fiat → Brian (Agent)

Brian (Agent) → Crypto → Chris (Agent)

Chris (Agent) ↑ Bullion → Donald (User)

Agents must keep sufficient collateral of bullion in transit.

Abstract

We begin with defining Crypto-Metaprogramming as "Bitcoin, simplified, minus Blockchain". We then employ Hilbert Hotel room number to illustrate the significance of hash numbers and Hashcodes, and further employ Hilbert Casino and Hilbert Bazaar to illustrate decentralised digital assets, as well as using Hilbert Casino and Hilbert Bazaar as a generalised model for all computing applications. We then introduce the concept of Decentralised Legal Persona and Metanarchy, and argue that MMAGA (Microsoft, Meta, Amazon, Google, Apple) USD 1.8 trillion annual revenues should be imposed "open source tax", and better free software can be produced by collaboration, using Omnihash and DJSON Decentralised JSON. We also predict and propose to simulate our prediction using Omni*Web itself, of a world made up of Three Kingdoms, namely, United States of America, China and Metanarchy Federation, comprising all other nation states, from 2030 onwards.

1. SymFORTH Computer Algebra in FORTH / Phoscript
2. Grab loses drivers.
3. Hilbert other theorems, Yongle Encyclopedia, Asimov
   Foundation + Monty Python
   2D Fu Stack Machine

Code   Issues 203   Pull requests 50   Actions   Projects   Wiki   Security   Insights

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Notifications   Fork 298   Star 1.3k

master

Go to file

Code

bjodah   Merge pull request #2116 fro...   c574fa8 · 12 hours ago   6,420 Commits

.github/workflows	Teuchos RCP in debug mode not t…	last week
benchmarks	Support no RTTI with option HAVE…	4 months ago
bin	avoid requiring too strict boost vers…	last week
binder	MAINT: Pin doxygen	2 years ago
cmake	set cmake_minimum_required	3 months ago
docs	Merge pull request #1729 from Ha…	4 years ago
symengine	Make RCPNode tracing thread saf…	last week

About

SymEngine is a fast symbolic manipulation library, written in C++

🔗 symengine.org

c-plus-plus   math   computer-algebra

📖 Readme

View license

Activity

Custom properties

⭐ 1.3k stars

👁 43 watching

udexon / **SymForth**   Public

Notifications   Fork 0   Star 13

forked from symengine/symengine

<> Code   ⑂ Pull requests   ▷ Actions   ⊞ Projects   ⊘ Security   Insights

master ▾

Go to file

<> Code ▾

This branch is 20 commits ahead of, 930 commits behind `symengine/symengine:master` .

udexon   Update SymForth.md   e012a98 · 5 years ago   🕑 5,510 Commits

📁 SymForth	Update SymForth.md	5 years ago
📁 benchmarks	Add files via upload	5 years ago
📁 bin	Formatting	6 years ago
📁 binder	Fix binder build env path	6 years ago
📁 cmake	Remove -march-native in UserOv	6 years ago

About

SymForth is SymEngine with Forth wrapper, a.k.a. Phoscript -- a fast symbolic manipulation library, written in C++, now with Reverse Polish Notation support.

🔗 sympy.org

📖 Readme

⚖ View license

∿ Activity

☆ 13 stars

👁 1 watching

```
hongwu@hongwu-Dell-System-XPS-15Z: ~/devel/2020/symengine/symengine-master/Build/benchmarks

File  Edit  View  Search  Terminal  Tabs  Help

hongwu@hongwu-Dell-System-XPS-15Z: ~/Android/Sdk/ndk-bundle/toolchains/llv...   hongwu@hongwu-Dell-System-XPS-15Z: ~/devel/2020/symengine/symengine-mas...   hongwu@hongwu-Dell-System-XPS-15Z: ~/devel/2020/symengine/symengine-mast...

0ms
number of terms: 3
Expanding r: 2*x*y + x**2 + y**2
TOS 8


sm_string:   x sym: y sym: add: 2 3 + pow: 3 5 +
sym: TOS x
Expanding: x
sym: TOS y
Expanding: y
In add: Expanding: x + y
+: 5 3 2 5
In pow:
Expanding a: x + y
Expanding: (x + y)**5
0ms
number of terms: 6
Expanding r: 5*x*y**4 + 10*x**2*y**3 + 10*x**3*y**2 + 5*x**4*y + x**5 + y**5
+: 8 5 3 8
mystack TOS: 8
(base) hongwu@hongwu-Dell-System-XPS-15Z:~/devel/2020/symengine/symengine-master/Bu
ild/benchmarks$ ./expandv x sym: y sym: add: 2 3 + pow: 3 5 +
```

Code Blame

506 lines (359 loc) · 18.9 KB

Raw

```cpp
 90
 91
 92                        sm_proc("x sym: y sym: add: 2 pow: 3 5 +");
 93
 94                        sm_string( command );
 95
 96
 97            return 0;
 98        }
 99
100    int sm_string( std::string str0 )
101    {
102
103            std::stack<SymEngine::RCP<const Basic>> RCP_S;
104
105            // Use string stack for input and output?
106            // use separate RCP stack for internal processing?
107            // different type different stack, one stack for each type?
108
109            // printf("\nsm_proc: %s\n", str0);
110            std::cout << "\nsm_string:   " << str0 << std::endl;
111
112
113            int clicked=1;
114
```

Code Blame

506 lines (359 loc) · 18.9 KB

Raw

```
100      int sm_string( std::string str0 )

249                                          else if (token.compare("pow:") == 0) { // SymEngine::expand1
250
251
252                                              std::cout << "In pow: "  << std::endl;
253
254                                              RCP<const Basic> e, r, t, a;
255
256                                              int b = stoi(mystack.top()); mystack.pop();
257                                              // std::cout << "Expanding b: " << b << std::endl;
258
259                                              RCP<const Basic> n = integer( b );
260      //                                           std::cout << "Expanding b: " << b << std::endl;
261      //                                           std::cout << "Expanding n: " << *n << std::endl;
262
263                                              a = RCP_S.top(); RCP_S.pop();
264
265                                              std::cout << "Expanding a: " << *a << std::endl;
266
267                                              e = pow(a , n);
268
269                                              std::cout << "Expanding: " << *e << std::endl;
270
271                                              RCP_S.push( e );
```

https://vt.tiktok.com/ZSArhaHaY/

Malaysia + Singapore population
= 40 million = California
Land area
Malaysia + Singapore: 333,000 km3
California 424,000 km2
"Fengshui" South West of Asia
California = South West of USA
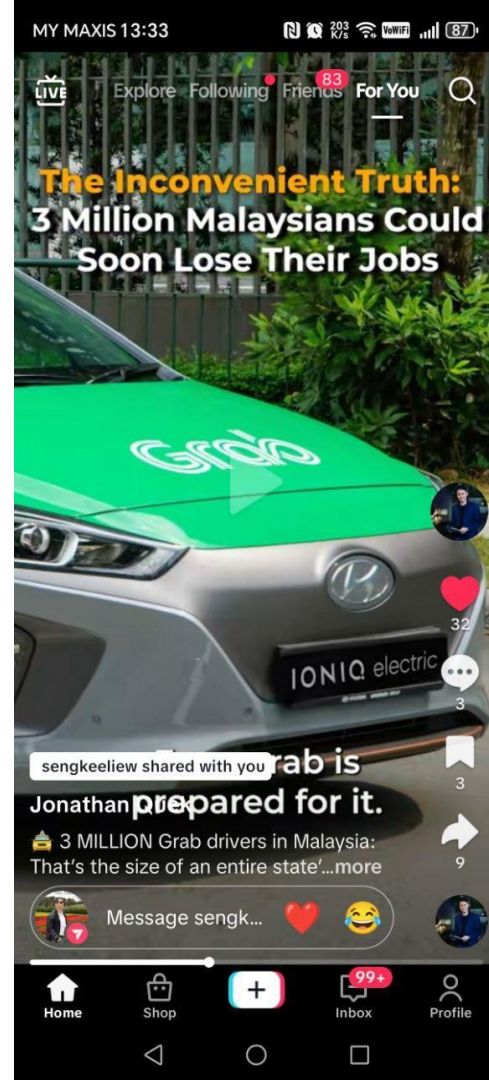
Asimov's Foundation and Monty Python disclaimer are two convenient excuses to deflect political correctness accusations on unpopular ideas.

Amongst politically incorrect theories gaining popularity recently in China include *Yongle Encyclopedia Conspiracy*, where Jesuit priests from Europe translated and plagiarised Yongle Encyclopedia, which is the source of all European scientific discoveries, from Copernicus Heliocentrism to Hilbert era mathematical theories.

Regardless of Yongle Encyclopedia Conspiracy, Konrad Zuse's Plankalkül and 2D stack machine notation, with Chinese Taoist Fu, or Talisman, sounds like a good plot for a fusion of Monty Python, Asimov Foundation and Harry Potter.

There could be some practical applications for 2D stack machines notations.

Asimov's Foundation animation of Psychohistory could be also 3D or 4D stack machine notation.

FORTH Chinese name was translated as 弗式, 弗 has no special meaning, 式 is formula, better translated as 符fu2 式shi4 , as in Taoist Fu Talisman.

Examples:

	V	
V	3	variable V3 — list of m pairs of values of type
K		$S1 \cdot n$
S	$m \times 2 \times 1 \cdot n$	

	V	
V	3	Row K could be skipped when it is empty.
S	$m \times 2 \times 1 \cdot n$	Therefore, this expression means the same as above.

	V	
V	3	Value of eights bit (index 7), of first (index 0) pair,
K	$i \cdot 0 \cdot 7$	of i-th element of variable V3, has Boolean type ($S0$).
S	0	

Indexes could be not only constants. Variables could be used as indexes for other variables, and that is marked with a line, which shows in which component index would value of variable be used:

	V	Z
V	3	5
K		
S	$1 \cdot n$	$1 \cdot n$

Z5-th element of variable V3. Equivalent to expression `V3[Z5]` in many modern programming languages.[16]:681

招財進寶

Scene from Apple TV Foundation S3E6 19:00 (mm:ss)

Although Yongle Encyclopedia Conspiracy MAY not have a direct link to FORTH, German engineer Konrad Zuse's Plankalkül suggest the possibility of 2D stack machine notation, which is consistent with Chinese Taoist Fu, or Talisman.

One of the underlying hypothesis in Yongle Encyclopedia Conspiracy is that European mathematical equations such as "$x + 3 = 5$" is translated from an unknown form from Yongle Encyclopedia, and Taoist Fu Talisman could be one possibility.

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

Open | Save

c_pvk.pem   d_pvk.pem   rsa.sh   libphos.js   e_pvk.pem   donald_keypair.js   libphos.php   init.js   libfgl.php   libuui.php

```php
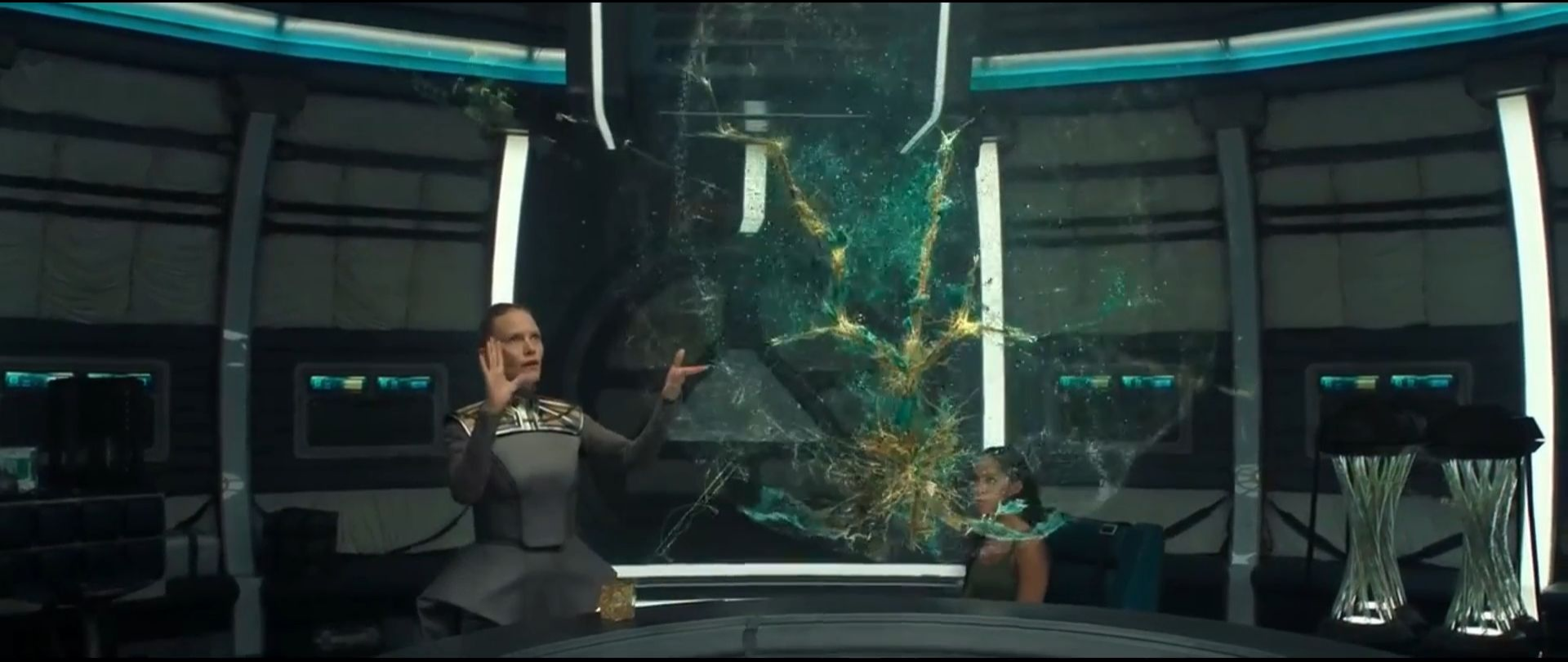332 {
333     global $S;
334     $S[] = array_keys(end($S));
335 }
336 function fgl_叠(){ fgl_s(); }
337 function fgl_s()
338 {
339     global $S, $a, $BV;
340     // 20250817 add SL length of stack string
341     if (isset($BV['SL'])) { echo $BV['SL'];
342     $l = strlen(var_export($S, true));
343     echo "\n" . __FUNCTION__ . " " . __LINE__ . " < " . count($S) . " > " . preg_replace("/\\s+/
", " ", substr(var_export($S, true),$l-$BV['SL'])) . "\n";
344     }
345     else echo "\n" . __FUNCTION__ . " " . __LINE__ . " < " . count($S) . " > " . preg_replace("/
\\s+/", " ", var_export($S, true)) . "\n";
346 }
347 function fgl_si() // show stack starting from i
348 {
349     global $S, $a;
350     echo "\n" . __FUNCTION__ . " " . __LINE__ . " < " . count($S) . " > " . preg_replace("/\\s+/
", " ", var_export(array_slice($S, array_pop($S)), true)) . "\n";
351 }
352 function fgl_sa()
```

Bracket match found on line: 336   PHP   Tab Width: 2   Ln 336, Col 29   INS

```php
        } else {
            echo $b;
        }
    }
}
function fgl_复()
{
    fgl_dup();
}
function fgl_dup()
{
    global $S;
    $S[] = end($S);
}
function fgl_2dup()
{
    fgl_over();
    fgl_over();
}
function fgl_over()
{
    global $S;
    $l = count($S);
```

```php
        }
        fgl_s();
        $xk = $i;
        $S[] = array("prg_ctr", $i);
}
function fgl_读(){ fgl_fgc(); }
function fgl_fgc()
{
        global $S;
        $S[] = file_get_contents(array_pop($S));
}
function fgl_efgc() // echo file_get_contents; avoid web async read; direct output
{
        global $S;
        $S[] = file_get_contents(array_pop($S));
        echo end($S);
}
function fgl_gt()
{
        global $S;
        $S[] = array_pop($S) < array_pop($S);
}
function fgl_dec()
{
```

Activities   Terminal   Jum 22 Ogos, 14:21   zh

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

hongwu@hongwu-Latitude-5480: ~/i2p-2.6.1   hongwu@hongwu-Latitude-5480: /var/www/h...   hongwu@hongwu-Latitude-5480: /var/www/d...   hongwu@hongwu-Latitude-5480: /var/www/d...

```
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth$ php phos.php tmp/hello.txt 读: 复: 叠:
PHP Warning:  Undefined array key "AUTH" in /var/www/dmeta/o/auth/libphos.php on line 928
PHP Warning:  Trying to access array offset on value of type null in /var/www/dmeta/o/auth/0609_libf
gl.php on line 312

fgl_s 345 < 4 > array ( 0 => array ( 0 => 'phos.php', 1 => 'tmp/hello.txt', 2 => '读:', 3 => '复:',
4 => '叠:', ), 1 => 'phos.php', 2 => '你好 Hello Ni Hao ', 3 => '你好 Hello Ni Hao ', )
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth$ php phos.php tmp/hello.txt fgc: dup: s:
PHP Warning:  Undefined array key "AUTH" in /var/www/dmeta/o/auth/libphos.php on line 928
PHP Warning:  Trying to access array offset on value of type null in /var/www/dmeta/o/auth/0609_libf
gl.php on line 312

fgl_s 345 < 4 > array ( 0 => array ( 0 => 'phos.php', 1 => 'tmp/hello.txt', 2 => 'fgc:', 3 => 'dup:'
, 4 => 's:', ), 1 => 'phos.php', 2 => '你好 Hello Ni Hao ', 3 => '你好 Hello Ni Hao ', )
hongwu@hongwu-Latitude-5480:/var/www/dmeta/o/auth$ cat tmp/hello.txt ;echo
你好 Hello Ni Hao

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

HBC: Omnihash Bullion Coins

1. HBC: Omnihash Bullion Coins (Physical Gold/Silver),
2. Trispecies Monetary System: Bullion, Fiat, Crytocurrencies
3. Liberalism vs. "Omnipotent Government" (OGism!!)

Adam (User)	Omnihash: 10g .999 Gold →	Donald (User)

Adam → Fiat → Brian (Agent)

Brian (Agent) → Crypto → Chris (Agent)

Chris (Agent) → Bullion → Donald (User)

Agents must keep sufficient collateral of bullion in transit.