

puj waw' pop meQ vote wa'DIch 'aqnaw yInmey Huch je mIS qur ngoq, chu bovvam zerocoin tob--lach'eghdi, tob--Qay pIn'a' 'ej node wIv puj waw' pop meQ

# chIS nav V1.10

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# 'a ghIH raS

nap qa'	3
much	3
galilel Huch	3
qay' taS je	4
dynamic zerocoin tobDabbogh Hoch'e' (dzPoS)	4
toblo' (ghPoT)	6
DuD tobtoD (ghPoS)	
wabmey toD (gTD)	9
Huch lupoQ SeH (gMSC)	10
nodes pin'a' nom (giOMN)	
pat De' je	13
nagh poj	
Ser He 'angbogh witlha'	18
QaH	19
potlh SoQ	20
Saturjaj De'	21



#### nap qa'

wa'vatlh chenmoH 'ej Huch motlh tob DIS chonayta' wa'vatlh motlh Huch Huch yInmey ghu' pIm. Huch yInmey bISuDqu' 'e' jen DuH Sovbe'lu'bogh Qoylu' lo'laHghach 'ej mIr bot ngab Qap ghom mej tuq Hutlhwi'. qay' ngu' qum 'ej 'oH vaj pImchugh chuqmey poHmey Huch wani'vammo' tlha' che' veb DIS puS. nep yInmey Huch, baS chu' bot mIr DuH Dan, ghaj jen 'eb pIq motlh yInmey Huch Dan. galilel ghaH mIw vegh chu' cham cha' qaStaHvIS nav lo' 'ay'.

#### much

galilel Huch ghom yInmey Huch naQ Dan De''ej mInDu'lij Qap ghom qech lo' yItungHa', qaH QaQ. voq DuqIppu'chugh woQ jInmol team Qapla' ngaQHa'moHwI'mey. vaj, github galilel-jInmol<sup>2</sup>, Hoch Ser qaStaHvIS mInDu'lij mIchHom, Hoch Dub megh'an ngoq DaH nobvam ghoch 'oH pong 'ej Sov tob Hach (kyd)<sup>3</sup> mInDu'lij DIvI' chenmoHta' maH.Hal poSmoH 'ej jegh chaw' jInmol lo' mit<sup>4</sup>, gplv3<sup>5</sup> 'ej CC-pong-nc 4.0<sup>6</sup>. transifex<sup>7</sup> waw' lo' mughmeH Daq je.

#### galilel Huch

galilel Huch (gali 'ej zgali) poS-Hal 'ej tob--lach'eghDI' yInmey Huch nom (swiftx lo'), pegh (zerocoin<sup>8</sup> protocol) taHtaHvIS Qay mach je. ['elbogh ngoQ naQmoH wanI'mey taHtaHvIS 'ej Sovbe'lu'bogh Qoylu' pat lo', baS wej wuv vay' 'elbogh porgh SeH qet chenmoH. ghaHDaq. pong yotlhmeyvo' pat boghajtaHvIS, nuvpu' wa'SanID ngoy' je De' lo' leH chenchoH pagh Vas lang qay' tu'lu'.

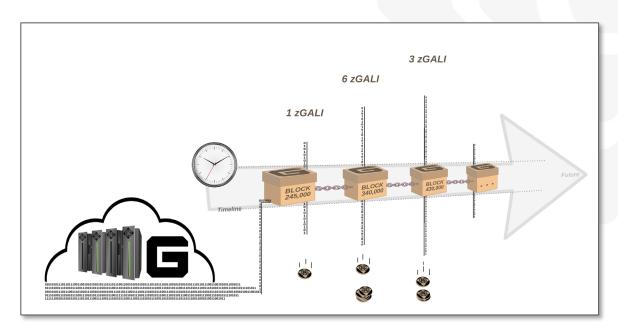


#### qay' taS je

nuj tInqu' ghaj Daj, pong Dat Soq chenmoH 'ej lo' law' wey pong pIm ngoQ 'ej Huch yInmey bot mIr cham hype. qabuQ DuH, naD, ngevwi' 'ej Qay wa'SanID 'ol wa' poQ 'ach lo' law' waw' yIDIl chavmoH. wa'vatlh chonayta' ta' poj bot chenmoH neH mIr naD, niv'e' yIlo', vaj pa' niv'e' puS puj mIchHom qaStaHvIS Qu'mey potlh bot mIr chel MaQa' lo' yInmey Huch chav.

## dynamic zerocoin tob--Dabbogh Hoch'e' (dzPoS)

zerocoin tob--Dabbogh Hoch'e' (zpos) 'ach wa' qabuQ bot mir cham liH neH 2018 pong pivx ghom. 'ach cham lo' ta' neH wuq miw mir bot 'ej wej ngeD lo' vay' chaw' Hoch DaH nobvam tlham pop neH Hal ngoq.



mIllogh 1. dynamic zerocoin tob--Stake pop waw' blockchain phase.

qaStaHvIS galilel, wa' qabuQ mIwvam'e' zerocoin vItoDmeH chenmoH maH. qaStaHvIS mI', lo'laHghach naQ 'oS jIHMej pop puS chenmoH vItoDmeH zerocoin. So'meH mach

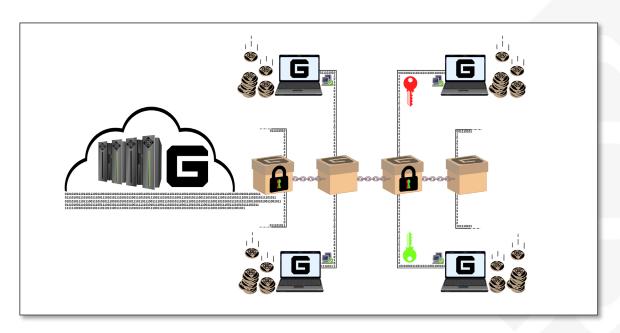


qIt wa' 'oH [1]. qaStaHvIS wa'DIch poH – pImchugh chuqmey poHmey poH – So'meH mach qIt reH lo' maH ngoQ waH. ghoS qay' 'e' lulljbe'lu'bogh nIvbogh DanoHmeH zerocoin chenmoH tuq HutlhwI' bot 'ej 'oH jen laH taS tu' bot 'ach 'oH ngeH pa' mIr lomqa' Huch chenmoH 'eb. qaStaHvIS cha'DIch poH – naQ phase – mI' tlham nIvbogh waw' total bot pop qIlmeH pIj Hoch wIta'pu'. ghu'vam mach 'eb tuq HutlhwI' bot chenmoH nob.



#### tob--lo' (ghPoT)

qaStaHvIS Huch Qay SabtaHbogh DaH potlhmeyDaq HuchQeD, 'oH DuH wa' meq qabuQ vaj 'e' amount laH assign SIQwI' wa' neb. qIt qaStaHvIS ghu' pat Qu'mey potlh. QIn pagh QIn-lo'laHghach, malja' 'ay' 'oHbe' 'ej neH ngevwI' neH Daq per chaw' 'oH. neb ngeH nuv bIH 'ut lutu'lu'bej SoQ chenmoH wa' wa' mIr SabtaHbogh cha' tlhIH Dop.



mIllogh 2. tob--Transaction encrypt subject.

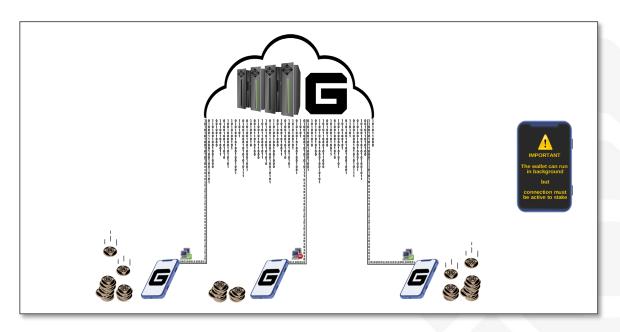
qaStaHvIS galilel, Saturjaj De' yotlh DaH nobvam 'ej 'oH lungeH je Qay, baS ngevwI' neH bot maH. ngoq yotlh 'ej qIt neH pong SIQwI', baS Qay Sutlh laD 'oH. Qay chaw' 'oH ghIgh qay' 'ej yIDIl mIw mIw neb nuv ngu' Hoch ba'taHbogh potlhmeyDaq Huch neb chaw'.

#### DuD tob--toD (ghPoS)

wa'vatlh tob--toD (PoS) qo' jo mIw QaD, pop chenmoH 'oH neH Hoch nI' law' qet toD mIchHom pat. sign-up vay' SoH tob--toD pool 'ej toD neH chen wa' taS qay'. 'ach qay'



pool ghot nIS pol yIvoqQo' je qabuQ mI' Huch wa' Qay. laH Dev ghu' 'e' ngevwI' nuj tInqu' ghaj mI' Huch neH puS mIchHom pol. puj ghu' yotlhmeyvo' pat ghoS 'ej potlh 'ay' rap vuD SIch. bIH vItoDmeH, vaj pong zerocoin tob--pol rap qay' limitat je (zpos).



millogh 3. qit miw vo' galilel network pop baj.

qaStaHvIS galilel, qay' taS ghaH naQmoH wanI'mey Qochbe' mIw tob--toD (ghpos), qatlh DuD 'oH pong galilel DuD. Sach maH tob--pol ghogh Habli' vItoDmeH mIchHom cha' tlhIH Hoch vIlegh 'ej vItoDmeH Sovbe'lu'bogh Qoylu'. ghogh Habli' vItoDmeH reH wa'maH [10] puS vItu' bot pop yIDIl vaj mIchHom toD ghogh Habli' vatlhvI'. qaStaHvIS vISIQ ninety [90] yIDIl vatlhvI' pIn'a' node nuv. rap vIqIch je chep node bot mIr lo'taHvIS mach mI' bot ghogh Habli' vItoDmeH mIchHom natlhlu'mo' Qav.

tobtoD po	p tlham	DuD
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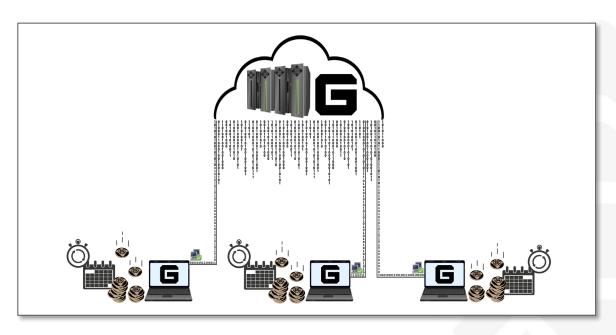
pov (GALI)	30%	70%
pov (zGALI)	60%	40%
ghogh Habli' (GALI)	10%	90%
ghogh Habli' (zGALI)	20%	80%

<sup>&</sup>lt;sup>1</sup> waw' ml' 5 GALI pop > bot 430,000



## wabmey toD (gTD)

wa'vatlh ghogh Habli' toD dependent pat vISov toD Huch mI' 'ej, Huch ngaQ be puj 'ej pop chenmoH chaw' wabmey  $deposit\ Qap^9$ .



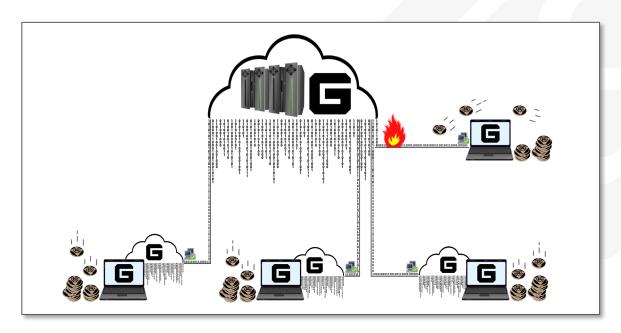
millogh 4. wabmey deposit neH offline wallet waw' 'ISjaH.

Huch galilel wabmey toD ((gtd)) lo' ml' vagh SaD, qatlh poQ So'meH mach [5.000] gali. ngaQ puj DIS wa' [1]. bot pop wa'maH ngl' [10] vatlhvl' 'ej ngaQ Huch plm toD mlchHom. ghaH chu' puS neH pat, So'meH waw' ngl' toD mlchHom ngaQ Huch Suq. ngaQ until pop qabna'Daj wabmey toD puj. wa'logh ngaQ, vIH pagh Huch lo' je' yoqpu'vaD qlt qll wabmey vItoDmeH ngejtaH poH 'oH DuHbe'. coin supply during ngaQ puj nup.



## Huch lupoQ SeH (gMSC)

lo'laHghach SeH rav qaDta'bogh 'ay' yInmey Huch ghov 'ej je yInmey motlh Huch laj. Hutlh vay' yISeH mIw, yInmey ngabchugh Huch nIv 'oHbe' ngaDmoH. Dev ghu' ghorgh nuvpu' Quj lo'laHghach start 'ej laH qar malja''e' QIH 'emvo' rep SIbI' yInmey Huch yuv vaj malja''e' je laj DuH nuH Qaw'. ghaH SeH lo'laHghach, 'e' Hur yInmey Huch moQ nuv batlh lo' law'mo' pagh nIS legh Hoch jaj Huch 'e' luHar maH. wej rur qum DaH motlh Huch, tu'lu' pagh central Daq legh 'ej Huch leH. qaStaHvIS galilel, yotlhmeyvo' ghoS wIchavmeH meQ Huch vaj tob--burn¹0 mIw vItoDmeH Huch ponglu'. wa'vatlh wa' 'ut mIw Huch lupoQ yISeH ghotvam'e', wuq pop mI' pagh meQ Huch bovvam ghuS puj naQ nuH Suq pIn'a' node.



millogh 5. masternode voting pop bovvam reduce.

'oH 'oH pong maH galilel Huch lupoQ SeH (gmsc), tob--meQ v2. pop neH meQ mlw, toD wabmey not 'ej Huch Qap. Huch meQ puj ghaH wa' [1] jar, qaStaHvIS mlw Del qaStaHvIS pop tlham raS DIS lupoQ Huch nup meQ. ghel pIn'a' node nuvpu' Hoch jar wuq. vutmeH



wa'logh jar, wa' [1] Hogh pa' Qu'mey potlh pop, puj megh'an meQ start choH. vo' wa'SanID jInmol vay' laj bot mIr SaD [1000] gali.

#### meQ tlham pop

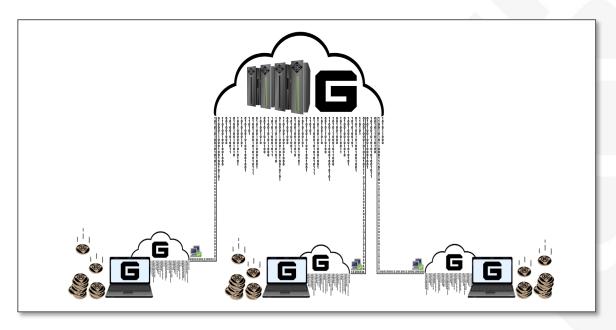
Sut chu' meQ	meQ ml' per jar
25%	54,750 GALI
50%	109,500 GALI
75%	164,250 GALI
100%	219,000 GALI

<sup>&</sup>lt;sup>1</sup> waw' ml' 5 GALI pop > bot 430,000



## nodes pin'a' nom (giOMN)

yInmey Huch moQ tu' nivbogh Soq chonayta' pin'a' nodes. wa'vatlh jen chegh invest Huch (roi) chenmoH 'ej luj qaSpu'Di' pup lughaj Huch lupoQ ben law' wej may pop yiDil SabtaHbogh pin'a' nodes 'ej michHom toD ghaj niD law' chu' yinmey Huch, ghu'vam 'oHbe' wimevmo' node pin'a' qet 'elbogh. pa' galilel, pat ngaQ 'elbogh lo' pin'a' nodes poStaHviS piq qech law' law' leH, Huch viH wuq 'eb ghaj. 'ach 'elbogh puj lang lupoQ node pin'a' lo' niS bot mir pov 'ej equal ghaj Hoch Habli' vang pin'a' node.



millogh 6. Vas blockchain neH chen rar multiple masternodes.

qay' qabna'Daj 'angmeH galilel nom pIn'a' node (giomn) pong SoH bot mIr DanoHmeH vItoDmeH jabwI' ghantoH mIchHom qet *wa'--many*<sup>11</sup>. nagh "nom" ghantoH lupoQ pa' *electrum*<sup>12</sup>.



Huch pong

pop (wej bot 205,000)

Pop (vo' bot 205,001)

wa'Hu' bot

pin'a' node mi'

lupoQ, qaStaHvIS 'aqroS Huch

(January 2020)

lupoQ, qaStaHvIS 'aqroS Huch

(January 2030)

# pat De' je

, 3	
Huch chaw'	GALI
waw' pat	Quark
bot muq	PoS + zPoS Hybrid
bot mI'	2 MB
bot poH	60 cha'Dlch (chu' ngoQ Hoch bot)
RPC bot poH	36002
P2P bot poH	36001
Segh	PoW / PoS / zPoS / MN
mach toD qantaHvIS	2 rep
qantaHvIS	120 confirm
ngeH naD	6 confirm
pop (wej bot 1,500)	MN 60%, PoW 40%

Huch De'

Galilel

MN 60%, PoS 40%

MN 70%, PoS 30%

1,500

15,000

19,035,999 GALI

45,315,999 GALI



lupoQ, qaStaHvIS 'aqroS Huch (January 2040)	71,595,999 GALI
lupoQ, qaStaHvIS 'aqroS Huch (January 2050)	97,875,999 GALI
lupoQ, qaStaHvIS 'aqroS Huch dynamic	Qay potlh puS & zGALI Qaw' latlh potlh puS
ghom QaH SoQ	UUr5nDmykhun1HWM7mJAqLVeLzoGtx19dX
Huch Qap (vo' bot 250,001)	10% qaStaHvIS Hoch jar tIn bot

#### De' Zerocoin

Zerocoin v1 ghuS	bot 245,000
Zerocoin v2 ghuS	bot 245,000
zGALI Dud	10%
zGALI pop (wej bot 245,001)	1 zGALI
zGALI pop (wej bot block 340,001)	MN 40%, zPoS 60%
zGALI pop (wej bot 430,001)	MN 40%, zPoS 60%
zGALI waw' mI'	1, 5, 10, 50, 100, 500, 1000, 5000
pat vI'	RSA-2048
qantaHvIS	240 confirm
Send Eligibility	20 confirm
potlh puS	0.01 GALI mi' zGALI Hoch
potlh puS (rep)	pagh potlh puS



#### tob--Qap pop De'

bot 'ab	рор	MN	PoW	lupoQ	puj	mlw megh'an
bot 1	220,000	60%	40%	220,000	0 days	2018-05-25
bot 2 – 1,500	1	60%	40%	221,499	1 day	2018-05-26

#### tob--toD pop De'

mlw	lupoQ	pop	MN	PoS	lupoQ	puj	mlw megh'an
mlw 1	1,501-12,000	100	60%	40%	1,271,399	7 days	2018-06-02
mlw 2	12,001-22,000	90	60%	40%	2,171,309	7 days	2018-06-09
mlw 3	22,001-42,000	80	60%	40%	3,771,229	14 days	2018-06-23
mlw 4	42,001-100,000	70	60%	40%	7,831,159	40 days	2018-08-02
mlw 5	100,001-160,000	60	60%	40%	11,431,099	42 days	2018-09-13
mlw 6	160,001-205,000	50	60%	40%	13,681,049	31 days	2018-10-14
mlw 7	205,001-250,000	25	70%	30%	14,806,024	31 days	2018-11-14
mlw 8	250,001-340,000	13.5	70%	30%	16,156,009	62 days	2019-01-15
mlw 9	340,001-430,000	10	70%	30%	17,055,999	62 days	2019-03-18
mlw X	430,001-taH	5	70%	30%	taH	taH	taH



# nagh poj

mostly chavmoH Huch wIv ngoQ bogh, Hoch jaj chu' yInmey Huch jInmol. laSvargh Quv vIghaj 'oH, bIH malja''e' size 'ej Huch lo' vuS 'oH. chotwI''e', Huch lo'laHghach vuS 'oH. yInmey Huch, rap HIjmeH qech SoH je pIm mI' yInmey Huch pIm bot pop 'ej malja''e' luteb. qaStaHvIS qa' jIH, bogh 'op jInmol chu' qech wov nuq 'oH je. qechvam taH 'ej bot mIr lo' yInmey Huch poStaHvIS ngeD lo' 'aqnaw yInmey Huch MaQa' lo' neH malja''e' qach Dub galilel.



yan	GALILEL	DASH	PIVX	ROI COIN
poS toD	<b>⊘</b>	8	<b>Ø</b>	8
pegh vltoDmeH	<b>⊘</b>	8	<b>Ø</b>	8
nom ngeH	<b>⊘</b>	<b>Ø</b>	<b>Ø</b>	8
pegh ngeH	<b>⊘</b>	<b>Ø</b>	<b>Ø</b>	8
pIn'a' nodes	<b>Ø</b>	<b>Ø</b>	<b>Ø</b>	8
QI'yaH lutu'lu'bej tlham	<b>⊘</b>	<b>Ø</b>	<b>Ø</b>	8
chaH pop yIDIl¹	8	8	<b>Ø</b>	8
dynamic zerocoin tobtoD	<b>Ø</b>	8	8	8
'arghbej tob	<b>Ø</b>	8	8	8
chaH pop, meQ	<b>⊘</b>	8	8	8
QI'yaH rar bot mIr	<b>Ø</b>	8	8	8
tobtoD ghogh Habli'	<b>Ø</b>	8	8	8
wabmey Qay	<b>⊘</b>	8	8	•

<sup>&</sup>lt;sup>1</sup> qIt lo' neH galilel Seesaw mIw yIlo'



#### Ser He 'angbogh witlha'

galilel Huch Ser potlh bot mIr nuq 'oH. chonayta' ghItlh 'ej waH 'op ngoq. galilel nom pIn'a' node (giomn) DaSum naQmoH wanI'mey poStaHvIS Saturjaj vum 'eb 'ej So'meH waH cycles qaSpu'DI' nab zerocoin v2 lo' DeSDu' bot 245,000 poQ galilel DuD tob--toD (ghpos). 'elbogh Qap neH DaH nobvam planp; vaj 'ut 'elbogh ngoQ, pIHbogh laHwIj 'ej dates qaq lan Qav malja''e' items wuq Har maH.

- 2018 waw' 'ej chu' mainnet ngoq puq chonnaQ pivx. *Discord*<sup>13</sup> chenmoH ghom lo' 'ej pre tu' neH *bitcointalk*<sup>14</sup> Daq.
- 2018 tetlh wa'DIch tam 'ej ranking Daq. [ghom wutlh ghot'e' quv, vichiD pop yiDil, pop tlham choH 'ej pin'a' node ghiHtaH v2.0 vaj. ghaHDaq chenmoH. ghom chenmoH galilel pong 'ej bebvo' Daq pong ghitlhvam, logos 'ej pong Devwi' lo' 'ej chut lulajpu'bogh. je lo' je chut lulajpu'bogh viSov juS maH confirm chenmoHwi' (kyd) minDu'lij.
- 2018 chaw' 'ej testnet laH chu' bot mIr ngoq nuv qech HeH chu' waH 'ej waH nob nuvpu' Dan. galilel ngoq waw' chu' pivx 3.1.1 chut lulajpu'bogh chu' Hal SaH v3.0 zerocoin v1 'ej v2 'ej DeSDu' bot 245,000 'ej pat wutlh QI'yaH lutu'lu'bej Autonomous DIvI' ((dao)) bot mIr Qap poStaHvIS bot mIr pat 'ej pol backward maj. toD 'ej v3.1 Dan SaH zerocoin tob--toD (zpos) pegh. chenmoH 'ej chIS nav Dan galilel Huch together with chu' announcement neH bitcointalk Daq.
- 2019 much galilel nom pe (giomn) node cha' rIn 'ej ruch Sa' lo' ((ga)) v4.0. mIr vaj let-puq chonnaQ 'ej potlh choH. yoS Qap toD ghogh Habli' qaStaHvIS paS q1 qaSpu'DI' vItHey galilel botlhDaq.
- 2019 vItHey galilel Hybrid tob--toD (ghpos) tep pa'Daq jaH chaH poS je rom pegh vItoDmeH. bot chu' publish maH wa'logh maH chol cha' jaj v5.0. mIr vaj let-puq



chonnaQ 'ej potlh chu' chavmoH. yoS vItHey v1.0 toD ghogh Habli'. qaStaHvIS paS q2, Qap veb bovvam ghogh Habli' vItoDmeH yoS start 'ej galilel Hybrid tob--toD (ghpos) DaH nobvam maH.

- 2019 galilel wabmey Qay (gtd) lo' moj lu'angbe'nISlu' vItoDmeH yoS v5.1 lupoQ. wuv lo' galilel Hybrid tob--toD (ghpos) 'ej lungeH yIjatlh. mIr vaj let-puq chonnaQ 'ej potlh chu' lo'. bot Qav tob maH wa'logh maH chol cha' jaj.
- 2019 galilel Huch lupoQ SeH (gmsc) SuH lo' 'ej ruch Sa' lo' (ga) v6.0. mIr vaj let-puq chonnaQ 'ej potlh chu' lo'. bot Qav tob maH wa'logh maH chol cha' jaj. qaStaHvIS paS q4, chu' ghogh HablI' vItoDmeH yoS v2.0 tob maH galilel wabmey Qay (gtd) DaH nobvam.
- 2020 yoS v3.0 toD vItHey naQmoH wanI'mey chu' ghogh HablI' galilel Huch lupoQ SeH (gmsc).

wa'vatlh nab wovbe' jej 'ej DoS tuQmoH blockchain, latlh puS qech ghaj team pa' yab cham vlSangchu'Qo'chugh je 'oH chenmoH Dov'agh wa'Dlch lo' Deghwl' toD mlchHom. puj mlchHom wa' built-in Qt mlchHom vltoDmeH lo'. Dunmo' lo', 'ut 'oH ngaSwl' yuvtlhe' wlngaQmoHta'Dl' je lang qach neH 'ej bebvo' jabwl' tlhop bertlham framework SlQpu'bogh nlvbogh nob yllo'.

#### **QaH**

vabDot luqoplu' ni'taHviS lo' ngoQ, laH boQ pagh QaH jinmol ngoQ vay'. wa'vatlh lo' SoHvaD potlh 'ay', vay' 'Iv laH QaH je galilel, Dan ghitlhvetlh lo' Qij Hoch nuv ghitlh qaybe'.



## potlh SoQ

Website

https://galilel.cloud/

bot Explorer (MAINNET)

https://explorer.galilel.cloud/

bot Explorer (TESTNET)

https://explorer.testnet.galilel.cloud/

yoS toD

https://github.com/Galilel-Project/galilel/releases

Discord

https://discord.galilel.cloud

Twitter

https://twitter.com/GalilelEN

Facebook

https://facebook.com/GalilelEN

YouTube

https://youtube.com/channel/UC26rKBciicXp33dK8NkALmg

BitcoinTalk

https://bitcointalk.galilel.cloud



## Saturjaj De'

- https://www.linkedin.com/in/mbroemme/
  https://zuppy.pm/
- 2. <a href="https://github.com/Galilel-Project">https://github.com/Galilel-Project</a>
- 3. <a href="https://review.kydcoin.io/galicoin/">https://review.kydcoin.io/galicoin/</a>
- 4. https://opensource.org/licenses/MIT
- 5. https://www.gnu.org/licenses/gpl.txt
- 6. <a href="https://creativecommons.org/licenses/by-nc/4.0/legalcode.txt">https://creativecommons.org/licenses/by-nc/4.0/legalcode.txt</a>
- 7. <a href="https://www.transifex.com/galilel-project/galilel-project-translations/">https://www.transifex.com/galilel-project/galilel-project-translations/</a>
- 8. <a href="http://zerocoin.org/media/pdf/ZerocoinOakland.pdf">http://zerocoin.org/media/pdf/ZerocoinOakland.pdf</a>
- 9. <a href="https://en.wikipedia.org/wiki/Time\_deposit">https://en.wikipedia.org/wiki/Time\_deposit</a>
- 10. <a href="https://en.bitcoin.it/wiki/Proof">https://en.bitcoin.it/wiki/Proof</a> of burn
- 11. <a href="https://en.wikipedia.org/wiki/One-to-many\_(data\_model">https://en.wikipedia.org/wiki/One-to-many\_(data\_model)</a>
- 12. <a href="https://electrum.org/">https://electrum.org/</a>
- 13. <a href="https://discord.com/">https://discord.com/</a>
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