

3d!70r!4l

Dø W3 H4v Cvl7vR ?

D34r Fr!3ndz,

Az 0ph Spr!n9 2013, .dp! w!ll B 74k!n9 4 n3w zh4p3. R3z7rvc7vr!n9 4nd z0!d!phj!n9 !7z m4nd8, !7 w!ll B pv8!lzh3d 7w!c3 4 j34r, wh!l3 8v!ld!n9 4 p4r7!c!p470rj pl47ph0rm -- 7hr0v9h 4 r39vl4rlj vpd470rd 8!09 -- 7h47 !z m0r3 c0mmvn!7j-84z3d, phl3x!8l3, zp0n74n30vz, 4nd cr!7!c4l.

M0r30v0r, .dp! !z n0w pr0vdlj d3ph!n0rd 4z 4 “ph3m!n!z7 j0vm4l 0ph 4r7 4nd d!9!74l cvl7vR.”

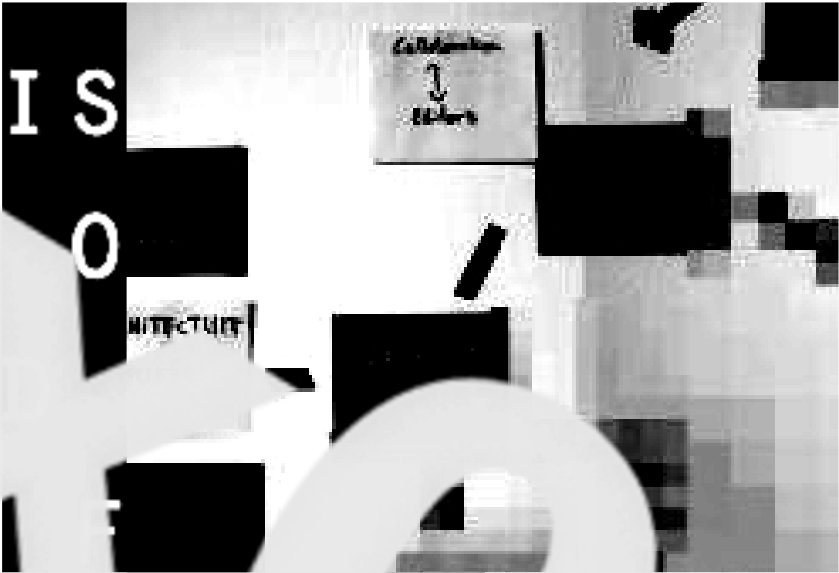
Th3 pv8!lc47!0n !z pr0p3ll0rd 8j 4 n3w 3d!70r!4l c0mm!7733 c0mp0z0rd 0ph Jvl!3 Al4rj L4v4llé3, Am80r B0rz0n, Ez7h0r B0vrd493z, Chr!z7!n4 H4r4l4n0v4, C0r!n4 M4cD0n4ld, K47j4 M3lz0r, C4nd4c3 M000rz 4nd D34nn4 R4dph0rd. Th47z’ r!9h7, 7h3z3 94lz n0w m4k3 vp 0n3 0ph 7h3 m0z7 mvl7!-74l3n70rd 4nd cr!7!c4llj 3n9490rd 9r0vpz !n 7h3 !nd3p3nd3n7 4r7z !n M0n7r34l 4nd, p0rh4pz 3v3n, 7h3 w0rld.

!n 4n 3phph0r7 2 !ncr34z3 7h3 !nd3p3nd3nc3 0ph 7h3 pv8!lc47!0n phr0m !7z ph0vnd0rz @ S7vd!0 XX, 7h3 ph3m!n!z7 4r7!z7-rvn c3n7r!nv!70rd m3 2 z0rv3 4z p0rm4n3n7 3d!70r !n ch!3ph. T0937h0r, w3 z47 d0wn 2 v!zv4!l23 0vr !nd!v!dv4l 4nd c0ll3c7!v3 !n70r3z7z (8j !l70r4llj 8r!n9!n9 r34l 08j3c7z 4nd c0ncr373 3x4mpl3z 2 7h3 748l3). W3 dr34m0rd 0ph pr0j3c7z 7h47 w0vld 4ll0w vz 2 z7!x 70937h0r 4m!dz7 4 z0c!0-p0!l7!c4l c0n73x7 7h47 m4k3z 0vr !!v3z !ncr34z!n9lj pr3c4r!0vz, 4nd wh0rcr!7!qv3 4nd cr347!v!7j r c0nz7r4!n0rd !n ph4v0vr 0ph wh47 w!ll z3ll 83770r 0r m4!n74!n 7h3 z747vz qv0.

!nd33d, whj r3d3ph!n3 7h3 pv8!lc47!0n 4z 4 “ph3m!n!z7 j0vrn4l 0ph 4r7 4nd d!9!74l cvl7vr3” n0w? !7 !z n07 4 9!v3n 7h47 zveh 4 pr0j3c7 !z 4n vr93n7 0n3. H0w3v0r !7 !z 0vr 74zk 2 d3ph!n3 7h47 vr93ncj 4nd n0 0n3 3lz3’z. T0 3m8r4c3 7h3 p073n7!4ll!7l3z 0ph .dp! 70937h0r h4z 833n 4n 3xc!7!n9 4nd phvn pr0c3zz, 0p3n!n9 0vr !m49!n47!0n 2 n3w h0p3z, !d34z 4nd 4c7!0nz.

!n 0vr d!zcvez!0nz, 7h3 qv3z7!0n 0ph “pl4c3” 7r4v0rz0rd 0vr v4r!0vz c0nc0rmz. !n 2013, w3 n0 l0n90r Opp0z3 “!0c4l” 4nd “9l084l” 8v7 w3 c4n c0r74!nlj z33 7h47 !7 !z n3c3zz4rj 2 cr38 4nd z7r3n97h3n r34l c0mmvn!7j. !nz734d, 470m!z3d, !nd!v!dv4!l27!c 4nd n0rm47!v3 c0nph!9vr47!0nz 0ph 4c7!n9 4nd 7h!nk!n9 c0n7!nv4llj p0rz!z7. !n 2013, 7h3 ph0cvz zh0vld p0rh4pz 8 pv7 0n z3lph-4zz0r7!0n r47h0r 7h4n z!mplj z3lph-r3pr3z3n747!0n [1] 7h47 !z, 2 94!n 4 z3nz3 0ph 83!n9 phr0m z0m3wh0r3, 0ph 83!n9 4nch0r3d. T0 8 48l3 2 zh4r0vr p0rz0n4l 3xp0r!3nc3z 4nd 2 3xp4nd 0vr c0ll3c7!v3 z7rv99l3z, 4cr0zz d!phph0r3n7 ph!3ldz 4nd 70rr4!nz. And 2 8 48l3 2 d0 7h47 w!7h!n 4 w3lc0m!n9 4nd zvpp0r7!v3 3nv!r0nm3n7, 0n3 wh0rw3 ph33l c0mph0r748l3 3n0v9h 2 74k3 r!zkz, 3xp0r!m3n7, 4nd m4k3 m!z74k3z.

Dø w3 h4v3 cvl7vR ? [2] 0ph c0vr3, 7h0r!z 4 l07 0ph “cvl7vr3” (z0m3 m!9h7 7h!nk m4j83 2 mvch) 8v7 7h3 qv3z7!0n !z wh!ch k!nd... ! 83l!3v3 7h47 m0z7 0ph vz r 2 p0!l73 [3] 3v3n 7h0z3 0ph vz wh0 ph0cvz 0n 7h3 ‘p0!l7!c4l’ 0r 7h3 ‘cr!7!c4l’. !7 !z 4z !ph m0z7 cvl7vr4l pr0dvc7!0n 4nd cr!7!qv3 m4!n74!n 7h3mz3lv3z !n 4 v4cvvm 0ph !!80r4l 4nd 80vr930!z c0nz3nzvz. Th3 w0rld 4nd z0c!4l r3l47!0nz r m3zz0rd vp. And !ph w3 d3c!d3 2 !9n0r7h47 7h3n w3 mvz7 h4v z0m37h!n9 2 h!d3 0r z0m37h!n9 2 94!n... !ph 70937h0r w3 zvpp0r7 34ch 07h0r !n l34rn!n9 2 74lk 480v7 r34l 7h!n9z 4nd 4c7 4cc0rd!n9lj, cvl7vr4nd c0mmvn!7j w!ll 8 cr3470rd 494!n.



B3z!d3z, cvl7vr!z n07 z0m37h!n9 7h47 !nh0r3n7lj 83l0n9z 2 4r7!z7z 0r wr!70rz 0r z0m3 ‘3!l73’. Cvl7vr!z 80rn 0v7 0ph cvr!0z!7j 4nd p4zz!0n, wh!ch 4nj 0ph vz h4z 7h3 48!l!7j 2 d3m0nz7r8 4nd nvr7vr3. !7 !z 7!m3 4 cvl7vr2 n0 l0n90r r3m4!n 4 c0mm0d!7j (0r z0m3 n3wzp4p0r z3c7!0n) 8v7 2 83c0m3 r3l3v4n7, 80ld0r 4nd ‘d!r!7!0r’, z0m37h!n9 7h47 !z c0-r3pr0dvc0rd 0v7 0ph 4n7490n!zmz, 8v7 wh0r7h3 3nd !z z3lph-d370rm!n47!0n (!3. w!7h!n 4 phr4m3w0rk 0ph 4n7!-0ppr3zz!0n). !n 07h0r w0rdz, 2 r3phvz3 4 ph3m!n!zm 7h47 !z !mp0r!4l!z7, r4c!z7, 0r 7r4nzph08!c. Cvl7vrlz !nd33d zvz74!n0rd 7hr0v9h 4n 48!l!7j 2 8 cr!7!c4l (4nd cr347!v3), 7h47 !z, 2 kn0w wh3n 4nd wh0r7h!n9z r m3zz0rd vp. 4nd 2 8 48l3 2 z4j !7, z0 7h47 4n 4c7v4l d!zcvez!0n c4n 74k3 pl4c3. !7 !z 4lz0 480v7 v4lv!n9 wh47 w3 4lr34dj d0 w3ll, !nd!v!dv4llj 4nd 4z p4r7 0ph c0ll3c7!v3z 0r !nd3p3nd3n7 4r7z 0r94n!z47!0nz, 2 d33m !7 !mp0r74n7 3n0v9h 2 74lk 480v7, 4nd d!zcvezz 4z w!d3lj 4z p0zz!8l3. !n z0 d0!n9, w3 c4n l34rm, 70937h0r, wh!ch !z 0n3 0ph 7h3 r34z0nz .dp! w!ll 8 d3v3l0p!n9 4nd vpd47!n9 4 c0mmvn!7j 9l0zz4rj, 4z w3ll 4z 700lz 4 c0ll480r47!0n, 4nd 0r94n!z!n9 !n-p0rz0n 3v3n7z.

E4ch !zzv3 0ph .dp! w!ll z7!ll 8 9v3z7 3d!70rd 8j 4 d!phph0r3n7 p0rz0n (0r 9r0vp) 4zz0c!470rd w!7h 4 p4r7!cvl4r ph0cvz, 8v7 !7 w!ll 4lz0 pr3z3n7 c0n73n7 7h47 !z vnr3l470rd 2 7h3 7h3m3 z0 4z 2 pr3z0rv3 4



2 7 | 2 o l 3 | h 4 x 7 ! v ! z m
< 4 ph3m!n!z7 j0vrn4l 0n 4r7 & d!9!74l cvl7vr >

t4bL øf c0n73n7z

+ !n7r0dvc7!0n

Chr!z7!n4 H4r4l4n0v4_____pp 2

+ F3m!n!z7 H4x0rzp4c3z 4z S4ph0r Sp4c3z ?

S0ph!3 T0vp!n_____pp 3-4

+ Pr0c3zz3z 47 Pl4j

.dp!’z Am80r B0rz0n !n70rv!3wz V4l3n7!n4 Vvkz!c_____pp 5

+ H4x7!v!zm3, 4773n7!0n 37 p0l!7!qv3 d3 l’0rd!n4!r3

4nn3 90ldn8r9_____pp 6-9

+ T3chn0l09!c4lly 3mp0wrđ 80dj 4z a w34p0n

M4c74 H380d3_____pp 10-11

+ Exp0z!n9 7h3 !nn0r W0rk!n9z

4n !n70rv!3w w!7h N4ncj M4vr0-Flvd3 M4r94r37 J. M47h0r_____pp 11-12

+ "Wh0r h4v 4ll 7h3 !n70r3z7!n9 w0m3n 90n3?"

7h3 .dp! B00k Clv8_____pp 13

+ Mvz!qv3 37 p0l!7!qv3, pr47!qv3z d3 ph3mm3z

3z7h0r 80vrd493z_____pp 14-15

+ H4xX7!v!zm 4nd 7h3n ?

4n !n70rv!3w w!7h Ed!7h Brvn3773 bj Jvl!3 Al4rj L4v4llé3_____pp 15

+ c0l0ph0n_____pp 16

zp4c3 4 07h0r 7!m3lj 70p!cz 4 ph3m!n!z7 4r7!z7z 4nd 7h3!r 4l!l3z. S33 0vr phr3zh n3w m4nd8 h0r3.

!n 7h!z 277h !zzv3, ph3m!n!z7 zch0l4r 0ph phr33 4nd 0p3n z0vrc3 z0ph7w4rChr!z7!n4 H4r4l4n0v4 h4z 9v3z7 3d!70rd 4 z3c7!0n 0n h4x7!v!zm, !n cl0z3 c0ll480r47!0n w!7h 7h3 3d!70r!4l 734m. Az mvch 4z p0zz!8l3, !n 7h3 zh0r7 7!m3 4v4!l48l3 2 vz, w3 h4v3 7r!0rd 2 3xp!0r07h0r m3d!vmz 7h4n 7h47 0ph 7h3 wr!773n w0rd !n 0rd0r 2 phv!lj 3xp0r!m3n7 w!7h 7h3 0n!l!n3 n47vr0ph 7h3 pv8!lc47!0n 4nd !7z 4r7!z7!c 3d93. Wh!l3 z0m3 73x7z r z7!l! qv!73 ‘4c4d3m!c’, w3 h4v 7h3 h0p3z 0ph 9r4dv4llj m4k!n9 0vr pl4c3 8j pr0p0z!n9 4 phr3zh n3w hj8r!d z7jl3 7h47 !z 7h47 0ph .dp!!

B !n 70vch, S0ph!3 L3-Ph47 H0 !n c0ll480r47!0n w!7h 7h3 .dp! Ed!70r!4l C0mm!7733

[1] !'m 80r0w!n9 7h!z m0770 (!nzp!r0rd 8j T!qqvn) phr0m mj !nv0lv3m3n7 !n 4n07h0r c0ll3c7!v3, Ar7!v!z7!c. Pr0pz.

[2] v!0vzlj, cvl7vrc4n m34n 4 l07 0ph 7h!n9z !n 7h3 w0rld, 93n0r4llj. H0rcv!7vr!z p0rh4pz m0rzp3c!ph!c4llj m34n7 4z 7h47 wh!ch m4k3z 4nd dr!v3z c0mmvn!7j. Bv7 !'m 4lz0 pl4j!n9 w!7h 7h3 ph4c7 7h47 70d4j “cvl7vR” !z 4lz0 4n 0v0vcz0rd 3xpr3zz!0n 7h47 m!9h7 h4v3 l0z7 4nj m34n!n9 4l70937b0r…

[3] 0!nc!d3n74llj, 4z 7h3 3d!70r!4l w4z 83!n9 wr!773n, 4 phr!3nd zh4r0rd 7h!z 7h0v9h7-pr0v0k!n9 qv073 8j Svz4n S0n749 0n S!m0n3 W3!l, wh!ch w4z r3c!rcv!470rd v!4 l0n380rj'z Tvm8!r: “Th3 cvl7vr3-h0r03z 0ph 0vr !l80r4l 80vr930!z

c!v!!z47!0n r 4n7!-!l80r4l 4nd 4n7l-80vr930!z; 7h3j r wr!70rz wh0 r r3p37!v!v3, 08z3zz!v3, 4nd !mp0!l73, wh0 !mpr3zz 8j ph0rc3—n07 z!mplj 8j 7h3!r 70n3 0ph p0rz0n4l 4v0h0r!7j 4nd 8j 7h3!r !n73ll3c7v4l 4rd0r, 8v7 8j 7h3 z3nc3 0ph 4cv73 p0rz0n4l 4nd !n73ll3c7v4l 3x7r3m!7j. Th3 8!907z, 7h3 hjz70r!cz, 7h3 d3z7r0j0rz 0ph 7h3 z3lph—7h3z3 r 7h3 wr!70rz wh0 834r w!n3zz 2 7h3 ph34rphv! p0!l73 7!m3 !n wh!ch w3 !lv3. !7 !z m07z7lj 4 m4770r 0ph 70n3: !7 !z h4rdlj p0zz!8l3 2 9!v3 cr3d3nc3 2 !d34z v770r0rd !n 7h3 !mp0rzo0n4l 70n3z 0ph z4n!7j. Th0r c0r74!n 0r4z wh!ch r 2 c0mpl3x, 2 d34ph3n0rd 8j c0n7r4d!c70j !h!z70r!c4l 4nd !n73ll3c7v4l 3xp0r!3nc3z, 2 h34r 7h3 v0!c3 0ph z4n!7j. S4n!7j 83c0m3z c0mpr0m!cz3, 3v4z!0n, 4 !l3. 0vrz !z 4n 493 wh!ch c0nzc!0vzlj pvrzv3z h34l7h, 4nd j37 0n!j 83l!3v3z !n 7h3 r34l!7j 0ph z!xn3zz. Th3 7rv7hz w3 r3zp3c7 r 7h0z3 80rn 0ph 4phph!lc7!0n. W3 m34zvr7rv7h !n 70rmz 0ph 7h3 c0z7 2 7h3 wr!70r !n zvphph0r!n9—r47h0r 7h4n 8j 7h3 z74nd4rd 0ph 4n 08j3c7!v3 7rv7h 2 wh!ch 4 wr!70r'z w0rdz c0r3zp0nd. E4ch 0ph 0vr 7rv7hz mvz7 h4v3 4 m4r7j!r.”

!n7r0dvct!0n

H4x7!v!zm : 7h3 Ar7 øf Pr4c7!c!n9 L!ph3 & C0mpv70r H4x!n9 4 F3m!n!z7 Ac7!v!zm

Chr!z7!n4 H4r4l4n0v4

L!ph3 !z h4x!n9. And h4x!n9 !z 7h3 4r7 0ph c0nz74n7lj l34rn!n9 480v7 7h3 4r7!ph4c7z 7h47 zvrr0vnd vz 7hr0v9h0v7 0vr !!v3z. 4 !nz74nc3, 4 ch!ld pr4c7!c3z h4x!n9 4ll d4j l0n9 8j 70vch!n9, 3xp!0r!n9, 74z7!n9, zm3ll!n9, 8r34k!n9 7h!n9z. A ch!ld 4ppr04ch3z 3v0rj l34ph, p!3c3 0ph w00d 0r zp!nn!n9-70p w!7h 4 z3nz3 0ph cvr!0z!7j 4nd c0nc3n7r47!0n. Th!z !z 7h3 4r7 0ph pr4c7!c!n9 L!ph3 7hr0v9h h4x!n9 4z 4 v4lv3 4nd 4 pr!nc!p!3 0ph l34rn!n9 4nd d0!n9. C0n73mp0r4rj m4zz m3d!4 r3p38dlj z3ndz 7h3 m3zz493 7h47 7h3 4c7 0ph h4x!n9 !z 4zz0c!8d w!7h m4!l!c!0vz vz0rz wh0 8r34k !n70 c0mpv70rz 4nd z734l !nph0rm47!0n. Th0z3 z0vrc3z r3p347 7h47 c0mpv70rz – h4rdw4r3, z0ph7w4r3, 3l3c7r0n!cz – r 7h3 d0m4!n 0ph “zvp0r vz0rz.” M4l3 vz0rz. Exp0r7z. Th3j pr0j3c7 h4x!n9 4z 4 phvn 4c7!v!7j, 4z 4 w4j 0ph !!ph3, 4z 4 z37 0ph pr4c7!c3z 7h47 r3qv!r4 p4r7!cvl4r !n73ll!93nc3, p0zz3zz0rd 8j v0rj ph3w.

!n 7h!z 277h !zzv3, 7h3 .dp! 734m !z ch4ll3n9!n9 7h3 n07!0n 0ph h4x!n9 4z 4 70rm z7r!c7lj 4zz0c!470rd w!7h c0mpv70rz 4nd z3cvr!7j. W3 r 0p3n!n9 vp 7h!z 70p!c 8j !nv!7!n9 ph3m!n!z7 zch0l4rz 4nd 4r7!z7z 2 0phph0r 4 v!z!0n 0ph h4x7!v!zm, 7h47 !z, h4x!n9 w!7h 4n 4!m. Bj d0!n9 z0, w3 w4n7 2 3nc0vr493 ph3m!n!z7 4ppr04ch3z 2 h4x!n9, !n70rr0947!n9 4nd !n70r!nk!n9 d!zc!p!n3z 7h47 d0 n07 4lw4jz l09!c4llj 90 70937h0r. !nd33d, 7h3 pr3z3n7 7h3m0rd z3c7!0n 8r!n9z 70937h0r d!9!74l 4r7!z7z, 4r7 p0rph0rm0rz, ph3m!n!z7 4c7!v!z7z, 4nd !n70rd!zc!p!n4rj zch0l4rz. Th3 73x7z w3 r pr3z3n7!n9 c0v0r 7r4nzph0rm47!v3 zv8j3c7z r4n!n9 phr0m 8!0h4x!n9 2 80dj h4x!n9, phr0m c0d!n9 2 d4nc!n9, phr0m h4x0rzp4c3z 2 z4ph0r zp4c3z, phr0m z3lph-c4r2 h4x!n9 w!7h c4r3.

H4x!n9 7h3 80dj !z M4r74 H380r!3’z ph0cvz, 0phph0r!n9 4n vnd0rz74nd!n9 0ph “8!0m3d!4” – phl3zh 7r4nzph0rm0rd !n70 d474 4nd zv8z3qv3n7lj d474 7r4nzph0rm0rd !n70 phl3zh. H380r!3 0phph0rz r34d0rz 7h3 p0zz!8!!!7j 4 7h3 80dj 2 r394!n c0n7r0l 0v0r !7z 0wn !nph0rm47!0n, c4ll!n9 7h3 pr0c3zz “8!0h4x!n9” 4nd 0p3n!n9 7h3 “h0rm37!c d0m4!n 0ph 8!073chn0l09j.”

M4r94r37 J. M47h0r 0phph0rz 4n !n70rv!3w w!7h N4ncj M4vr0-Fl4vd3, 4n Avz7r4!l4n 4r7!z7, r3z34rch0r 4nd h4x0r, r394rd!n9 h0r d4nc3 p0rph0rm4nc3 c4ll0rd Err0r_!n_7!m3. M4vr0-Fl4vd3 vz3z !!n3z 0ph c0d3 2 d3/3ncrjp7 80dj m0v3m3n7. Sh3 3xp!4!nz h0w z0ph7w4r3, 4p4r7 phr0m 73chn!c4l 4r73ph4c7z, c4n 4nd zh0vld ph!nd !7z pl4c3 !n 4r7 4nd cr4ph7z. 4 ph3m!n!z7 zch0l4r S0ph!3 T0vp!n, 7h0r!z 4 9r0w!n9 n30rd 4 h4x0rzp4c3z 2 w0rk 70w4rdz 83c0m!n9 z4ph0r zp4c3z – 0n3z 7h47 r 8v!!7 0n 7h3 zh4r0rd v4lv3z 0ph 7h3 p4r7!c!p4n7z. Uz!n9 7h3 3x4mpl3 0ph ph3m!n!z7 h4x0r c0vn70r-cv!7vr3, T0vp!n 4ppl!3z 4 ph3m!n!z7 4ppr04ch 2 l34rn!n9 4nd h4x!n9, 7hvz !nv!7!n9 m0rd!v0rz3 m3m80rz 4nd 4m8vrz 2 j0!n !n 7h3 4r7 0ph h4x!n9 73chn0l09!3z.

“H4x!n9 w!7h c4r3,” 4n 3zz4j wr!773n 8j z0c!0l09!z7 4nd 4r7 p0rph0rm0r Ann3 G0ld3n80r9 !z 4 r3phl3c7!0n 0n 7h3 phjz!c4l 4nd pzjch0l09!c4l z3lph-c4r0ph h4x0rz 4nd h4x7!v!z7z, 4z w3ll 4z 0n 7h3 pr08l3mz 0ph 3xclvz!0n 4nd z3x!zm 0ph73n ph0vnd w!7h!n h4x0r c0mmvn!7!3z. Pr09r4mm!n9 4nd c0mpv70r pr0c3zz3z r @ 7h3 h34r7 0ph 7h3 4r7w0rk 0ph Sw!zz 4r7!z7 V4l3n7!n4 Vvkz!c. !n 4n !n70rv!3w w!7h .dp!’z Am80r B0rz0n, Vvkz!c 7llz vz 480v7 h0r p4zz!0n 4 m4k!n9 z0vnd 3phph3c7z w!7h c0mpv70r pr09r4mz 4nd 0p0r47!n9 zjz73mz, 4nd !nk!n9 7h0z3 2 m0r3 c0mpl3x qv3z7!0n!n9 480v7 73chn0l09j, !7z vz3z 4nd 3phph3c7z 0n p30pl3 4nd 7h3 zvrr0vnd!n9 3nv!r!0nm3n7.

!n “H4x7!v!zm3 37 4prèz”, .dp!’z Jv!l3 Al4rj L4v4llé3 d!4l09v3z w!7h 4r7!z7 Ed!7h Brvn3773 480v7 h0r 4r7!z7!c w0rkz z!7v470rd 0n 7h3 3d93 0ph l394l!7j. W3 l34rn 480v7 7h3 08z74cl3z zh3 h4z h4d 2 ph4c3 4nd 7h3 w4j h0r pr0j3c7z !nv0lv3 c0ll480r47!0n 4nd r3-4ppr0pr!47!0n 0ph c0mmvn!c47!0n 8j c0mmvn!7!3z, 7hvz ch4ll3n9!n9 7h3 m0n0p0lj 0ph d!zc0vrz3 (wh0 h4z 7h3 r!9h7 2 zp34k 4nd wh0 h4z 7h3 r!9h7 2 4c7).

Th3 ph!n4l p!3c3 0ph 7h3 7h3m0rd z3c7!0n 0ph 7h!z !zzv3 !z 4n !n70rv3n7!0n c4ll0rd “.dp!” 8j D4n!zh d3z!9n0r L!nd4 H!lph!n9. H!lph!n9’z cr347!v3 pr0j3c7 c0nz!z7z !n p!r47!n9 7h3 277h .dp! !zzv3 0n h4x7!v!zm, 4nd r3-wr!7!n9 ! ! !n 4 z!mpl3 crjp709r4ph!c l4n9v493 l337zp34k. H!lph!n9’z pl4jphvl m37h0d r3m!ndz vz 0ph 7h3 839!nn!n9 0ph h4x!n9, 0phph0r!n9 4n 4l70rn47!v3 w4j 0ph p0rc3!v!n9 73chn0l09j, h4x7!v!zm, 4nd 7h3 r3pr3z3n747!0n 0ph 7h3 .dp! 0n!l!n3 j0vrn4l.

F3m!n!z7 H4x0rzp4c3z 4z S4ph0r Sp4c3z ?

S0ph13 T0vpln



S73ph4n!3 Wvzch!7z, Clrcv!7 M07h0r, V!3nn4, P0rm!zz!0n Oph: 7h3 4r7!z7.

H4x0rzp4c3z r r3!47!v3lj n3w !n N0r7h Am0r!c4. Th3j w0r!n7r0dve0rd !n 2007 ph0ll0w!n9 7h3 p4r7!c!p47!0n Oph N0r7h Am0r!c4n h4x0rz @ 7h3 Ch40z C0mmvn!c47!0n C4mp, 4n !n70m47!0n4! m337!n9 Oph h4x0rz h3ld 3v0rj ph0vr j34rz !n G0rm4nj, 0r94n!z0rd 8j 7h3 Ch40z C0mpv70r Clv8 (CCC). Fr0m 7h3n 0n, h4x0rzp4c3z z74r70rd 2 mvzhr00m !n N0r7h Am0r!c4 4nd 83j0nd, h3lp!n9 2 k!x Ophph 4 h4x0rzp4c3 m0v3m3n7. H4x0rzp4c3 (4lz0 r3ph0rr0rd 2 4z 4 h4xl48, m4k0rzp4c3, 0r h4xzp4c3) !z d3ph!n0rd 0n W!k!p3d!4 4z “4 c0mmvn!7j-0p0r470rd phjz!c4! zp4c3 wh0rp30pl3 w!7h c0mm0n !n70r3z7z, Oph73n !n c0mpv70rz, 73chn0!09j, ze!3nc3, d!9!74! 4r7 0r 3!3c7r0n!c 4r7, c4n m337, z0c!4!z3 4nd/0r c0ll480r8.”

H4x0rzp4c3z r 93n0r4llj v0lvn730r-rvn, z3lph-m4n493d, 4v70n0m0vz zp4c3z. Wh3n l0c470rd !n z0c!4! c3n70rz [1][2] h4x0rzp4c3z Oph73n 83c0m3 4 hv8 4 h4x7!v!z7z !n 4n 4773mp7 2 cr38, c0nzp!r4nd c0mmvn!c8 4 c0ll3c7!v3 ch4ll3n93 494!nz7 c4p!74!lzm 4nd d3ph3nd 7h3!r v70p!4n v!z!0n 84z0rd 0n 0p3n 4cc3zz, h0r!z0n74! c0ll480r47!0n, z3lph-m4n493m3n7 c00rd!n47!0n 4nd 7h3 phr33 clrcv!47!0n Oph !nph0rm47!0n [3]. Th3 zh4r!n9 Oph zvch zp4c3, wh0rz0c!4! jvz7!c3 !zzv3z r ph0r39r0vnd3d, 4lz0 ph4v0vrz 7h3 c0ll480r47!0n 4nd zjn0r9j Oph 4c7!0nz 837w33n h4x7!v!z7z 4nd 4c7!v!z7z.

H4x7!v!zm [4] c0m3z phr0m 7h3 c0n7r4c7!0n 837w33n h4x!n9 4nd 4c7!v!zm 4nd c4n 8 8r04dlj vnd0rz700d 4z r3pr3z3n7!n9 4 z0vrc3 Oph 73chn0!09j m3d!470rd r4d!c4l

p0ll!7!c4! (d!r3c7) 4c7!0nz [5] 0r, !n 07h0r w0rdz, h4x!n9 4 4 p0ll!7!c4! c4vz3. H4x7!v!zm “!z n07 z7r!c7lj 7h3 !mp0r747!0n Oph 4c7!v!z7 73chn!qv3z !n70 7h3 d!9!74! r34lm. R47h0r !7 !z 7h3 3xpr3zz!0n Oph h4x0r zk!llz !n 7h3 ph0rm Oph 3!3c7r0n!c d!r3c7 4c7!0n.” (S33 m374c0m 2003) Th3 74c7!c zv0rd 8j h4x7!v!z7z h4v3, 0v0r 7h3 j34rz, !nclvd0rd 3!3c7r0n!c clv!l d!z083d!3nc3 [6], v!r7v4! z!7-!nz [7], D!z7r!8v70rd D3n!4! Oph S0rv!c3 (DD0S) 4774xz), 4m0n9 07h0rz.

H4x0rzp4c3z, wh37h0r !n 0r 0v7z!d3 Oph z0c!4! c3n70rz, m!9h7 n07 n3c3zz4r!lj r3pr3z3n7 zp4c3z wh0r3v0rj0n3 ph33lz z4ph3 4nd z3cvr2 h4x, l34rn, z0c!4!z3 4nd 3xp0r!m3n7. Az h4x0rzp4c3z r 93n0r4llj d0m!n470rd 8j (wh!73) m3n, wh0r4 p4r7!cvl4r “dvd3c0r3” cvl7rm!9h7 8 3xpl!c!7lj 0r !mpl!c!7lj ph0r39r0vnd3d, zvch 4 zp4c3 m!9h7 8 l3zz !nv!7!n9 2 w0m3n, qv30rz 4nd p30pl3 Oph c0l0vr [8], d3m09r4ph!cz 7h47 r Oph73n l4r93lj m!zz!n9 phr0m h4x0rzp4c3z. Thvz, 7h3 cr347!0n Oph ph3m!n!z7 zp4c3z 0r z4ph0r zp4c3z w!7h!n h4x0rzp4c3z !z 4 w4j 2 4ddr3zz 7h0z3 !zzv3z, wh!l3 @ 7h3 z4m3 7!m3, cr347!n9 4 z4ph0r phjz!c4! zp4c3 477vn0rd 2 !n70rz3c7!0n4! ph3m!n!z7 4nd qv30r !nphl3c7!0nz.

M37h0d0!09j

Th!z 4r7!cl3 !z 84z0rd 0n d!zcevzz!0nz 4nd !n70rv!3wz c0ndve70rd m0z7lj w!7h w0m3n 4nd qv30rz !nv0lv0rd !n h4x0rzp4c3z 4nd !n 7h3 phr33!l8r3/0p3n z0vrc3 m0v3m3n7 !n N0r7h Am0r!c4. M0r30v0r, !7 dr4wz phr0m mj 0wn 3xp0r!3nc3 w!7h <h77p://ph0vph3m.0r4n93z33dz.0r9 - F0vF3m>, 4 ph3m!n!z7 h4x0rzp4c3 !n M0n7r34! 7h47 4!mz @ 83!n9 4 z4ph0r zp4c3 4 (z3lph-l3dn7!ph!3d) w0m3n 4nd qv30rz 2 d3mjz7!phj 73chn0!09!3z, l34rm phr0m p30rz, 4nd cr38 4 c0r9r0vp Oph l0c4! w0m3n !n70r3z70rd !n 73chn0!09!3z 4nd h4x!n9. F0vF3m 9r3w phr0m 7h3 d3z!r2 h4v3 m0rw0m3n 4nd qv30rz !n 7h3 h4x0r/h4x7!v!z7 m0v3m3n7 !n M0n7r34! wh!l3 3v0lv!n9 !n 4n 3nv!r0nm3n7 wh0rph3m!n!z7 pr!nc!p!3z w0vld 8 3xpl!c!7lj ph0r39r0vnd3d. F0vF3m 4lz0 z7m3z phr0m 7h3 d3z!r2 !m49!n3 ph3m!n!z7 h4x0r pr0j3c7z 2 3xp4nd 7h3 h4x0r/h4x7!v!z7 m0v3m3n7 4nd m4k3 !7 3v3n m0r!nclvz!v3.

Az 4 ph3m!n!z7 zch0!4r 4nd 4c7!v!z7, ! 4m z3nz!7!v3 2 qv3z7!0nz Oph p0z!7!0n4!l!7j. H0r3, ! dr4w phr0m L!nd4 Alc0phph! [9] wh0 z4w k3j 4zp3c7z Oph (z3lph-l3dn7!ph!3d) w0m3n 4nd qv30rz’ !d3n7!7j 4z m4rk0rz Oph r3!47!0n4! p0z!7!0nz r47h0r 7h4n 3zz3n7!4! qv4!7!l3z. ! 7h0r3ph0rr3c09n!z3 7h47 7h3 4cc0vn7 4nd 4n4ljz!z ! pr3z3n7 h0r!z z!7v470rd 8j mj p4r7!cvl4r p0z!7!0n4!l!7j Oph 93nd0r, cl4zz, z3xv4! 0r!3n747!0n, 4nd 37hn!c!7j, 4m0n9 07h0rz, c0n7r!8v7!n9 4 “p4r!l4! 7rv7h” [10] 2 4 80dj Oph ph3m!n!z7 w0rk 0n h4x0rzp4c3z, zp3c!ph!c4llj, 4nd 7h3 h4x0r cvl7vr3, m0r8r04dlj.

S4ph0r Sp4c3z

S4ph0r zp4c3z r 84z0rd 0n 7h3 4zzvmp7!0n 7h47 zh4r0rd c0mm0n v4lv3z, wh37h0r 3xpl!c!7, 7hr0v9h 4 c0mmvn!7j 49r33m3n7, 0r !mpl!c!7 7hr0v9h 7h3 zh4r!n9 Oph v4lv3z, 3n48!3 m3m80rz Oph 4 9r0vp 2 phl0vr!zh, 3mp0w0r 7h3mz3lv3z 4nd cr38 c0mmvn!7j. S4ph0r zp4c3z “0r!9!n470rd !n w0m3n’z 4nd qv30r m0v3m3n7z Oph 7h3 p4z7 d3c4d3z 4z 4n !d3n7!ph!0r Oph zp4c3 7h47 !z 3xpl!c!7lj c0mm!770rd 2 z4ph37j 4 !nd!v!dv4lz 0r c0mmvn!7!3z 7h47 r 74r937z Oph 0ppr3zz!0n” (p. 138) [11]. C0nze!0vzn3zz r4!z!n9

9r0vpz pr3v4l3n7 !n 7h3 Un!70rd S78z dvr!n9 7h3 w0m3n’z !!80r47!0n m0v3m3n7 0ph 7h3 l8 1960z w0r4m0n9 7h3 ph!rz7 z4ph0r zp4c3z 7h47 4!m0rd @ pr0v!d!n9 4 z4ph3 zp34k!n9 4nd 4w4r3n3zz r4!z!n9 3nv!r0nm3n7 4 w0m3n 4nd qv30rz. Th3 n07!0n Oph 4 z4ph0r zp4c3 !mpl!3z 7h3 p0zz!8!l!7j 2 zp34k 4nd 4c7 phr33lj, 93n0r8 z7r89!3z Oph r3z!z74nc3 4nd 8v!ld c0mmvn!7j, 4m0n9 07h0rz (p. 24) [12]. Th0v9h 7h3 r4n93, n47vr4nd r4!z0n d’87r0ph z4ph0r zp4c3z h4v3 3v0lv0rd 4nd 3xp4nd0rd 0v0r 7!m3, 7h3 c0nc3p7 !z z7!l! c3n7r4! 2 ph3m!n!z7 p3d4909j, 0r94n!z!n9 4nd !!80r47!0n.

Whj D0 W3 N30rd (S4ph0r) F3m!n!z7 H4x0rzp4c3z?

!n 7h3 c4z3 Oph ph3m!n!z7 h4x0rzp4c3z, zvch z4ph0r zp4c3z r n07 0nlj 480v7 z4ph0r zp34k!n9 zp4c3z, 8v7 4lz0 z4ph0r m4k!n9 4nd 7rj!n9 zp4c3z. !n ph4c7, z0m3 Oph 7h3 pr3m!z3z nvr7vr0rd 8j z4ph0r zp4c3z r 7h3 4d0p7!0n Oph 4n 4n7!-0ppr3zz!v3 z74nc3 4z w3ll 4z m4k!n9 w3ll-83!n9 4nd 3mp0w0rm3n7 4 n3c3zz4rj 904! 4 !nd!v!dv4! 4nd c0ll3c7!v3 !!80r47!0n [13] W!7h 7h47 phr4m3w0rk !n m!nd, ph3m!n!z7 h4x0rzp4c3z m!9h7 hlp !nd!v!dv4lz pv7 4 h4x0r !d3n7!7j 4nd 4 ph3m!n!z7 !d3n7!7j 0n 3qv4! ph007!n9. Th0r3ph0r3, !nz734d Oph h4v!n9 2 h!d3 0r z0m3wh47 c0mpr0m!z3 0n3’z !d3n7!7j 0v0r 7h3 07h0r, 7h0z3 !d3n7!7!3z m!9h7 8 48!3 2 c0-3xlz7 4nd phl0vr!zh, l34d!n9 p0rh4pz 2 4 d!z7!nc7 ph0rm Oph ph3m!n!z7 h4x!n9 4nd/0r ph3m!n!z7 h4x7!v!zm.

M0r30v0r, 7h3 !d34 Oph cr347!n9 z4ph0r zp4c3z w!7h!n h4x0rzp4c3z !z 4 w4j 2 !nv!73 4nd/0r r374!n m0rph3m!n!z7z 4nd 93nd0r n0n-c0nph0rm!z7z, 4m0n9 07h0rz, wh0 m!9h7 n07 phvllj !d3n7!phj w!7h 7h3 d0m!n4n7 h4x0r cvl7vr(z33 C0d!n9 Fr33d0m) [14]. !n 74lk!n9 480v7 z4ph0r zp4c3z, Dr3h0r 4r9v3z 7h47 7h3j “m!9h7 8 l3zz 480v7 4n 48z0lv73 z3cvr!7j !n wh!ch 7h0r!z n0 r!zk, n0 p4!n 4nd n0 d!phph!cvl7 c0nv0rz47!0nz, 8v7 r47h0r m0r480v7 4 r3d!z7r!8v7!0n Oph 7h3 r!zkz 4nd d!ze0mph0r7z Oph zp34k!n9 4nd 0r94n!z!n9” (p.17) [15]. Add!7!0n4llj, ph3m!n!z7 h4x0rzp4c3z m!9h7 8 4 w4j 2 cr38 c0mmvn!7j 4r0vnd zh4r0rd 3xp0r!3nc3z 4nd c0mm0n !n70r3z7z, wh!l3 @ 7h3 z4m3 7!m3, zh4r!n9 4n vnd0rz74nd!n9 Oph wh47 !n70rz3c7!0n4! ph3m!n!zm !n 7h3 h4x0r 0r h4x7!v!z7 cvl7vrm34nz 4nd h0w 2 4773mp7 2 7r4nzl8 !7 w!7h!n 7h!z cvl7vr3.

F3m!n!z7 h4x0rzp4c3z c4n 4lz0 8 zp4c3z wh0rc0nzc!0vzn3zz r4!z!n9 0n 4nd 480v7 ph3m!n!z7 !zzv3z, h4x!n9 4nd/0r h4x7!v!zm h4pp3nz 83c4vz3 Oph 4 z0m3wh47 zh4r0rd p0z!7!0n4!l!7j 4nd 3xp0r!3nc3. Az 7h0rh4v3 833n c4z3z wh0rph3m!n!z7z h4v3 ph0vnd !7 p4r7!cvl4rlj h4rd 2 d!zcevzz !zzv3z Oph pr!v!l393z (zvch 4z z3x!zm, p47r!4rchj 4nd r4c!zm) w!7h!n 7h3 h4x0r 4nd h4x7!v!z7 c0mmvn!7j [16], h4v!n9 4 z4ph0r zp4c3 wh0rvzch !zzv3z c4n 8 d!zcevzz0rd !z !mp0r74n7 [17].

Wh3n ph3m!n!z7 4nd 4n7!-0ppr3zz!0n p0ll!7cz r n07 3xpl!c!7lj p4r7 Oph 7h3 37h0z Oph 4 zp4c3 wh37h0r v!r7v4! 0r phjz!c4!l, 7h3 8vrd3n Oph 3dvc47!0n w!ll Oph73n 8 pl4c0rd vp0n 7h3 p30pl3 wh0 r !!v!n9 7h3z3 0ppr3zz!0nz. Th3 8vrd3n Oph 3dvc47!n9 480v7 wh!73 zvpr3m4cuj w!ll 8 pl4c0rd vp0n !nd!93n0vz 0r p30pl3 Oph c0l0vr, wh!l3 7h3 8vrd3n Oph 3dvc47!n9 480v7 93nd0r 4n4ljz!z w!ll 8 pv7 vp0n w0m3n 4nd qv30rz. H4v!n9 2 3xpl4!n 7h3 p0r!7!n3nc3 Oph w0rk!n9 0n 93nd0r !zzv3z !n 4nd Oph 7h3mz3lv3z 4ll 7h3 7!m3, 4nd m337!n9 r3z!z74nc3 4nd d3ph3nz!v3n3zz wh3n 7rj!n9 2 8v!ld zvch 4n4ljz!z !n

4 zp4c3, c4n 8 4 c0nz74n7 z7rv99l3 4 ph3m!n!z7 4nd 4n7!-0ppr3zz!0n 4c7!v!z7z. 4 m4nj ph3m!n!z7 h4x0rz 0r h4x7!v!z7z, 7h3 n07!0n 7h47 0n3 d03z n07 n30rd 2 74lk 480v7 93nd0r, r4c3, z3xv4l 0r!3n747!0n, c!4zz, 37c. 83c4vz3 wh47 m4770rz !z h0w w3ll v c4n h4x (z33 h4x0r 37h!cz) l4r93lj d!zr394rdz pr!v!l393z 7h47 p30pl3 h4v3 !n z0c!37j 4nd c0nz7!7v73z p4r7 0ph 7h3 3xpl4n47!0n 4 whj 7h0rr z0 ph3w w0m3n, qv30rz 4nd p30pl3 0ph c0l0vr !n h4x0rzp4c3z, !n p4r7!cvl4r, 4nd !n 7h3 h4x0r 0r h4x7!v!z7 c0mmvn!7j, m0r8r04dlj [18]. H3nc3, 7h3 cr347!0n 0ph z4ph0r ph3m!n!z7 zp4c3z w!7h!n h4x0rzp4c3z m4j hlp 2 8v!ld c0mmvn!7j, ph!nd 4ll!3z 4nd m0v3 phwd w!7h zh4r!n9 4nd l34rn!n9 zk!llz, !n 4 ph3m!n!z7 4nd 4n7!-0ppr3zz!0n h4x!n9 3nv!r0nm3n7.

Th3 n30rd 4 4nd d3z!r2 cr38 ph3m!n!z7 h4x0rzp4c3z h4z zvrph4c0rd !n r3c3n7 j34rz. Th3z3 ph3m!n!z7 3nd34v0vrz h4v3 n07 n3c3zz4r!lj ph0ll0w0rd 7h3 z4m3 !n70rz3c7!0n4l ph3m!n!z7 z74ndp0!n7, 8v7 n0n37h3l3zz h4v3 7r!0rd 2 cr38 zp4c3z wh0r(!n70rz3c7!0n4l) ph3m!n!z7z w!ll 8 48l3 2 h4x 4nd/0r l34rn 2 h4x 70937h0r !n wh47 7h3j m!9h7 c0nz!d0r 4 z4ph0r zp4c3. Ex4mpl3z 0ph zvch !n!7!47!v3z r w!7h 7h3 ph3m!n!z7 h4x0rzp4c3 F0vF3m 7h47 w4z r3c3n7lj l4vnch0rd !n M0n7r34l, 7h3 Mz B4l74z4r'z L480r470rj, 4 z74r7-vp 0r94n!z47!0n 4nd ph3m!n!z7 h4xzp4c3 !n V!3nn4, 7h3 An4rch4ph3m!n!z7 H4x0rh!v3 !n S4n Fr4nc!ze0, 7h3 H4x70rj !n Ph!l4d3!ph!4 4nd 7h3 M!zz D3zp!0n4z !n T4zm4n!4, Avz7r4!l4. Th3 Ad4 !n!7!47!v3, 4nd 7h3!r Ad4C4mp c0nph0r3nc3z !n p4r7!cvl4r, !z 4n07h0r 3x4mpl3 0ph cr347!n9 4d h0c z4ph0r zp4c3z m0z7lj 4 w0m3n, qv30rz 4nd 93nd0r n0n-c0nph0rm!z7z w!7h 7h3 pvrp0z3 0ph 3nh4nc!n9 0n3'z zk!llz 7hr0v9h zh4r!n9, 4nd cr347!n9 n47!0n4l 4nd !n70m47!0n4l !!nkz 0ph z0ll!d4r!7j.

C0nclvz!0n

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[6] !n 7h3!r 3zz4j 3n7!7!0rd El3c7r0n!c Cl!v!! D!z083d!3nc3 (1996), 7h3 Cr!7!c4l Ar7 Enz3m8l3, 4 p0rph0rm4nc3 4r7 4nd 4c7!v!z7 9r0vp, z0v9h7 2 r3pl!c8 7h3 “dlz7vr84nc3z” h4pp3n!n9 !n 7h3 z7r337z !n70 7h3 v!r7v4l r34ll 4nd c4ll0rd 4 cl!v!! d!z083d!3nc3 0n!n!n3.

[7] !n 2001, 4n 0n!n3 d3m0nz7r47!0n w4z 0r94n!z0rd 494!nz7 Lvph7h4nz4 wh0 w4z 83!n9 4ccvz0rd 0ph 3n949!n9 !n 4nd pr0ph!7!n9 phr0m d3p0r747!0n 0ph 7h0z3 w!7h n0n-r3c09n!z0rd G0rm4n z747vz. S33: h77p://www.!80r74d.d3!n!h4l7!pr!0j3k73/d3pc!4zz!p!393!v/k!nd3x.h7ml

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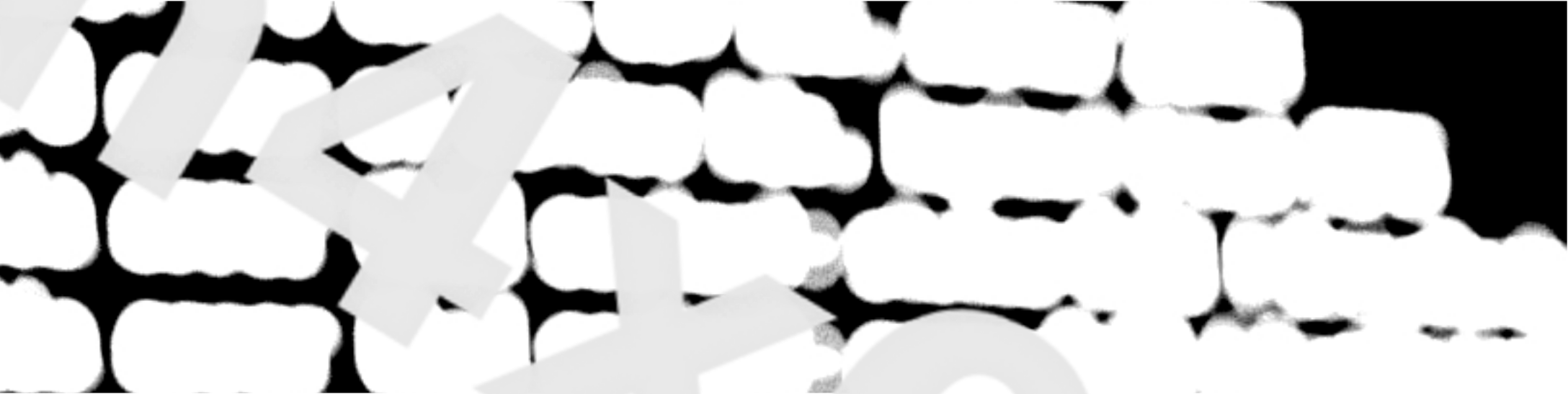
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Am80r B0rz0n



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H4x7!v!zm3 37 z0!d4r!7éz 0rd!n4!r3z

L4 cvl7vrh4x0r z3 préz3n73 d3pv!z l0n973mpz c0mm3 vn3 c0mmvn4v7é p0l!7!zé3 lv774n7 3n ph4v3vr d'vn3 z0c!é7é 7r4nzp4r3n73 37 v4l0r!z4n7 l3 p4r7493, l3 !!8r4ccèz 4vx c0nn4!zz4nc3z 37 vn3 0r94n!z47!0n déc3n7r4!l!zé3 [1]. L3z h4x0rz z0n7 4vzz! c0nnvz p0vr 4v0!r dév3l0ppé d3z r3l47!0nz h4rm0n!zé3z, hvm0r!z7!qv3z, lvd!qv3z 37 cré47!v3z qv4n7 4v 7r4v4!! 37 à l4 93z7!0n dv 73mpz [2]. En94934n7 c3z lv773z 4v z0rv!c3 d'4c7!v!zm3z z0c!4vx c0n73mp0r4!nz, l3z h4x7!v!z73z z0v7!3nn3n7 qv4n7 à 3vx d3z 4c7!0nz m!!!74n73z 37 dén0nc3n7 l4 c3nzvrp0l!7!qv3, l4 zvrv3!l4nc3, l4 v!0l3nc3 37 l4 70r7vrqv! m3n4c3n7 n07r8!3n-è7r37 n0z !!80r7éz. !mpl!qvéz à l0n9 70rm3, 4v-d3!à d3z 4c7!0nz p0nc7v3!l3z, c3z h4x0rz r4d!c4vx n0vrr!zz3n7 d3z !l3nz ph0r7z 37 dvr48l3z 37 ph0rm3n7 d3z c0mmvn4v7éz l0c4l3m3n7 37 !n70rn47!0n4l3m3n7 z0vdé3z [3].

M4!z d'4v7r3z 4zp3c7z d3 l4 cvl7vrh4x0r z0n7 plvz pr08lém47!qv3z. L4 ph4ç0n d0n7 l3z 4c73vrz d3 c3 m!!!3v pr3nn3n7 z0!n d3 l3vrz 83z0!nz phjz!qv3z 37 pzjch0l09!qv3z 0v 9ér3n7 l3z pr08lém3z d'3xclvz!0n 37 d3 v!0l3nc3, !!éz n074mm3n7 à l4 d!phphér3nc3 d3z 93nr3z, p3v7 p0r70r à réphléch!r 4v c4r4c7èrré3!l3m3n7 p0l!7!qv3 d3 c3773 p0z7vr3. L3z 4c7!v!zm3z 73chn0l09!qv3z 4pp4r7!3nn3n7 z0vv3n7 4v r39!z7rd3 l'hér0ïzm3, d3 l'3xp!0!7, d3 l'4c7!0n zp3c74cvl4l3r, v0!rd'vn c0nc0vrz d3 v4!l!4nc3.

D4nz c3 c0n73x73, p3v7-0n !m49!n0r qv3 l4 cvl7vrh4x0r dév3l0pp3 d3z r3l47!0nz d'3n7r4!d3, d'éc0v73, d3 r3zp3c7 37 d'4773n7!0n à z0! 37 4vx 4v7r3z p4r l3 8!4!z d'vn3 p0l!7!z47!0n dv qv07!d!3n?

J3 zv99èrd3 r394rd0r c3z qv3z7!0nz à p4r7!r d3 7r0!z p0rzp3c7!v3z : l4 ph4ç0n d0n7 l3z h4x7!v!z73z pr3nn3n7 z0!n (!nd!v!dv3!l3m3n7 37 c0ll3c7!v3m3n7) d3 l3vr 8!3n-è7rphjz!qv3, n074mm3n7 3n !l3n 4v3c d3z c0nd!7!0nz d3 7r4v4!! !mpl!qv4n7 vn3 !mm08!!!7é 37 vn3 m08!!!z47!0n c0n7!nv3, l4 m4n!èrd0n7 3!l3z!l!z 9ér3n7 37 c0ll3c7!v!z3n7 l'4773n7!0n 4v 8!3n-è7rpzjch0l09!qv3, n074mm3n7 p4r r4pp0r7 4vx dépr3zz!0nz 37 4vx zv!c!d3z qv! m4rqv3n7 l3vr c0ll3c7!ph, 37 3nph!n c0mm3n7 3!l3z!l!z z3 m08!!!z3n7 v!z-à-v!z d3z pr08lém47!qv3z d'3xclvz!0n 37 d3 z3x!zm3.

L3 c4r3, l3 z0!n 37 l4 p0l!7!z47!0n dv qv07!d!3n

D'480rd écr!7 3n 4n9l4!z, c37 4r7!cl3 z'!n7!7vl4!7 H4x!n9 w!7h C4r3. J'4! ch0!z! d3 7r4dv!r!l3 70rm3 « c4r3 » p4r « p0l!7!qv3 dv qv07!d!3n » 3n m3 réphér4n7 à S4ndr4 L4v9!0r (2009 [4]). L'4v73vrv7!!!z3 c3773 7r4dvc7!0n (0v c3!l3 d3 « p0l!7!qv3 d3 l'0rd!n4!r3 ») p0vr p4rl0r dv z0!n d3 l4 ré4l!7é qv07!d!3nn3, c'3z7-à-d!rdv ph4!7 qv3 d3z 93nz z'0ccvp3n7 d3z 4v7r3z, z'3n z0vc!3n7 37 v3!l!3n7 4!nz! 4v ph0nc7!0nn3m3n7 c0vr4n7 dv m0nd3. !l z'49!7 d'vn3 4c7!v!7é 3zz3n7!3!l3 -- !d3n7!ph!é3 d3pv!z l0n973mpz p4rm! l3z r3zp0nz48!!!7éz d3z ph3mm3z -- l4 plvp4r7 dv 73mpz z0vz-3z7!mé3, z0vz-rémvnéré3 0v z!mpl3m3n7 n0n rémvnéré3. P0vr J04n Tr0n70 [5], !l ph4v7 é!4r9!r l4 pr!z3 d3 c0ncz!3nc3 d3 l'!mp0r74nc3 dv C4r37 rép4r7!r plvz l4r93m3n7 l4 r3zp0nz48!!!7é d3 c3z 4c7!v!7éz d'4773n7!0n à z0! 3n r3c0nn4!zz4n7 qv'3!l3z c0nz7!7!v3n7 vn r0v493 3zz3n7!3! d3 l4 z0c!é7é. C'3z7 d0nc 3n c3zz4n7 d3 l3 r3lè9v0r à vn3 é7h!qv3 phém!n!n3 37 3n lè9!7!m4n7 z0n z3nz z0c!4l ph0nd4m3n74l qv3 l3 C4rd3v!3ndr4 vn pr0j37 p0l!7!qv3.

Dé7r3zz3z 37 z0!d4r!7éz pzjch0l09!qv3z

En 2011, l4 c0mmvn4v7é h4x0r dépl0rl3 zv!c!d3 d3 !lj4 Zh!70m!rzk!, c0ph0nd8vr dv réz34v z0c!4l !l8rD!4zp0r4. L3 pr0j37 qv! v0v!4!7 n074mm3n7 c0ncvrr3nc0r F4c3800k n'4rr!v3 p4z à 0873n!r l3 zvccèz 0v l3 z0v7!3n 3zpéré. Plvz!3vrz h4x7!v!z73z c0mm3nc3n7 à réphléch!r 4vx c4vz3z d3 c3 zv!c!d3 3n 70rm3z d3 m4l4!z3 pzjch0l09!qv3 37 r3m3773n7 3n qv3z7!0n l3 z7r3zz 4zz0c!é à vn vn!v0rz d3 7r4v4!! c0ncvrr3n7!3l. Un 4r7!cl3 pv8!l!é d4nz l3 m494z!n3 F0r83z z3 p3nch3 4!nz! zvr l4 qv3z7!0n d3 l4 pr3zz!0n dv zvccèz 37 c3!l3 d3 l4 dépr3zz!0n pr0pr4v m!!!3v h4x0r [6].

L3z ré4c7!0nz à c37 4r7!cl3 7r0vv3n7 éch0 d4nz l4 ré4l!7é d3 plvz!3vrz m3m8r3z d3 l4 c0mmvn4v7é. En 2008, vn3 c0nphér3nc3 zvr l4 dépr3zz!0n d4nz l3z m!!!3vx d3 l'!nph0rm47!qv3 4v4!7 déjà !nzp!ré l4 cré47!0n dv z!73 W38 Blv3H4x0rz [7], l3qv3l r3nd v!z!8l3 l4 z0vpphphr4nc3 dv m!!!3v 933k 3n !l3n 4v3c d3z pr08lém3z d3 dépr3zz!0n, d'4nx!é7é 0v d3 7r0v8l3z 8!p0l4!r3z 37 ch0rch3 à zvzcl!70r d3z z0lv7!0nz d'4!d3 37 d'3n7r3-4!d3.

En j4nv!0r 2013, l4 c0mmvn4v7é h4x0r 4ppr3nd l4 d!zp4r!7!0n 8rv74l3 dv h4x7!v!z73 A4r0n Schw4r7, qv! z'3z7 zv!c!dé 4l0rz qv!! 3nc0vr4!7 vn3 p3!n3 d3 35 4nz d3 réclvz!0n, p0vr 4v0!r 7éléch4r9é 37 r3ndv pv8!c d3z m!!!!0nz d3 d0cvm3n7z jvr!d!qv3z

37 zc!3n7!ph!qv3z p4j4n7z. L3 !l3n 3n7rl4 pr3zz!0n p0l!7!qv3 37 l3z r4!z0nz dv zv!c!d3 3z7 év!d3n7, m4!z p0vr 4ppr3ndrà 49!r v!z-à-v!z d3 c3z m4n!ph3z747!0nz d3 dé7r3zz3, d3z m3m8r3z d3 l4 c0mmvn4v7é h4x0r z3 m08!!!z3n7 37 c0mm3nc3n7 à p4rl0r d'3n7r4!d3 pzjch0l09!qv3 [8].

Chrlz70ph0r A!l4n W3883! [9] 37 Ev4n Pr0m0d0v, !nph0rm47!c!3nz 37 m!!!74n7z [10], pr0p0z3n7 4!nz! d3 p0vzz0r vn3 réphl3x!0n c0ll3c7!v3 zvr l4 dépr3zz!0n 37 l3 zv!c!d3 d4nz l3 m!!!3v. C'3z7 4l0rz qv3 dé8v73 vn3 pr!z3 d3 c0ncz!3nc3 3n !l3n à l4 ph0!z 4v3c l3 m4nqv3 d'3zp4c3 d!zp0n!8l3 p0vr p4rl0r d3 d0vl3vr, d3 ph4!8l3zz3 0v d3 dé7r3zz3 37 l3 déph! d'!n7r0zp3c7!0n 37 d3 ch4n93m3n7 qv'vn3 73!l3 réphl3x!0n p3v7 4m0rc0r à l0n9 70rm3.

Pr3ndrz0!n dv c0rpz h4x0r

W3 w!ll cr38 4 c!v!!!z47!0n 0ph 7h3 M!nd !n Cj80rzp4c3.

M4j !7 8 m0rhvm4n3 4nd ph4!r 7h4n 7h3 w0rld j0vr 90v0rm3n7z h4v3 m4d3 83ph0r3. - J0hn P0rrj B4rl0w

Av n0m d'vn3 v4l0r!z47!0n d3 l'3zpr!7, l3z !l3nz 3n7rl4 cvl7vrh4x0r 37 l3z r4pp0r7z 4v c0rpz z3 ph0n7 z0vv3n7 zvr l3 m0d3 dv dép4zz3m3n7, d3 l4 7r4nzc3nd4nc3 0v 3nc0r3n ph0nc7!0n d'vn3 z0r73 d3 né947!0n dv c0rpz 37, p4r 3x73nz!0n, d3 z3z 83z0!nz. L'!nv!z!8!!!z47!0n dv c0rpz d4nz l3z éch4n93z méd!47!zé3 3z7 mèm3 v4l0r!zé3 c0mm3 9493 d'è94!7é (8!3n qv3 c3773 4n4ljz3 z0!7 c0n7r0v0rzé3 p4r r4pp0r7 4vx ph0rm3z d'3xclvz!0nz 37hn!qv3z 37 93nré3z 73!l3z qv3 préz3n7é3z plvz 74rd). P4r4!lèl3m3n7 4v d!ze0vrz d'!nd!phphér3nc3 v!z-à-v!z dv c0rpz, c03x!z73 vn3 é7h!qv3 dv dép4zz3m3n7 0ù l4 p0zz!8!!!7é d3 h4x0r vn 0r94n!zm3 (37 z0!-mèm3) d3v!3n7 vn3 pr3vv3 v!7!m3 d3 !!80r7é. Or c3z mèm3z 4c7!v!7éz 4mèn3n7 z0vv3n7 c3z pr07490n!z73z à r3z70r d3z h3vr3z z4nz 80v90r, z4nz pr3ndr!4!r, z4nz d0rm!r, z4nz m4n90r 0v 3nc0rz4nz ph4!rd3 l'3x0rclc3. C0mm3n7 l3z h4x0rz z3 ch4r93n7-!l!z d3 l4 ré4l!7é phjz!qv3 d3 l3vr c0rpz d4nz l3 c4drd'vn 7r4v4!! méd!47!zé !mpl!qv4n7 d3z p0z7vr3z !mm08!l3z pr0l0n9é3z 4!nz! qv3 d3z 7r0v8l3z mvzcvl0-zqv3!377!qv3z 37 phjz!0l09!qv3z?

L3z c0n73x73z d3 7r4v4!! 37 d3 r3nc0n7rv!l3nn3n7 z0vv3n7 r3nph0rc0r c3z l09!qv3z p0rph0rm47!v3z. Plvz!3vrz z0lv7!0nz 4pp0r7é3z 3n9493n7 l3z 73chn0l09!3z z0vz l4 ph0rm3 d3 l09!c!3l!z z0rv4n7 à m3zvr0r l'4c7!v!7é d3z 7r4v4!l!3vr-3vz3-z [11]. P4r 4!l!3vrz, c0r74!nz pr0j37z z3 ch4r93n7 d3 c3773 d!m3nz!0n 3n réz0rv4n7 d3z 3zp4c3z z!l3nc!3vx, !z0léz 0v 4ccv3!l!4n7z (prév0j4n7 d3z z4cz d3 phèv3z p0vr l3 r3p0z) 37 3n déz!9n4n7 d3z r3zp0nz48l3z à l'4773n7!0n dv z0!n d3z p4r7!c!p4n73-z, 73l!z qv3 l3z 4n93z 37 l3z 4rch4n93z préz3n73-z l0rz dv Ch40z C0mmvn!c47!0n C4mp, vn r3nd3z-v0vz !n70m47!0n4l p0vr h4x0rz [12]. C'3z7 4vzz! l3 zvj37 d3 r3ch0rch3 d3 l'éqvp!3 W0rk!n9 S7!ll-S7!ll W0rk!n9 [13] qv! z'!n7ér3zz3 à l4 phjz!c4!l!7é dv r4pp0r7 4vx T!C c0mm3 n0vv3!l3 c0nd!7!0n d3 7r4v4!l. L'08j37 d3 l3vrz 8!l0rz A773n7!0n S0m(7)4c(7)!cz 4 p0rm!z d'3n9490r vn3 dém4rch3 d3 c0ll3c73 37 d'3xpér!m3n747!0n 3n vv3 d'vn3 ém4nc!p47!0n c0ll3c7!v3 [14].

V0rz vn h4x7!v!zm3 !nclvz!ph 37 z0!d4r!3 ?

L3z c0nphér3nc3z 73chn0l09!qv3z, l3 m!!!3v dv !!8r37 c3lv! d3z h4x0rz z0n7

m4lh3vr3vz3m3n7 8!3n c0nnvz p0vr l3vrz ph0rm3z d'3xclvz!0n 37hn!qv3 37 93nr63. J0h4nn3z Gr3n3phvr7hn0r 37 Fr4nk Apvnk7 Schn3!d0r, dv c0ll3c7!ph M0n0chr0m3, ph0n7 4!nz! é747 d3z m4r9!n4!z47!0nz à l'evvrd4nz l3z h4x0rzp4c3z (3zp4c3z déd!éz 4vx h4x0rz) [15] :

Az zvch, w3 ph!nd 70d4j'z h4x0rzp4c3z 3xclvd!n9 4 l07 0ph 37hn!c4l 4nd z0c!4l 9r0vpz 7h47 d0n'7 z33m 2 ph!7 !n 0r m4j83 ph33l z0 4nd r zc4r0rd 8j 7h3 wh!73 m4l3 n0rd d0m!n4nc3, 7h3!r (m4j83) z3x!z7 0r 3xclvz!0n!z7 j0k3z 0r wh8v0r m!9h7 8 c0n7r!8v70rd 2 7h3m. Or p0rh4pz 7h3j d0n'7 h4v3 7h3 pr0p0r zk!llz 2 c0mmvn!c8 4nd/0r c00p0r8 w!7h 7h3 p4xz 0ph 933kj 9vjz (Or @ l34z7 7h3j m!9h7 7h!nk z0).

S'!! 3x!z73 d3z ph4c73vrz d'él0!9n3m3n7 3x7ér!3vrz 37 4n7ér!3vrz à l4 cvl7vrh4x0r, d3 n0m8r3vx 7r4v4vx p0rm3773n7 d3 c0mpr3ndrc0mm3n7 z3z 3xclvz!0nz z0n7 pr0dv!73z 37 4!lm3n7é3z p4r l3z 4c7!v!7éz 37 l3z 477!7vd3z d3z m3m8r3z d3 l4 c0mmvn4v7é. P4r 3x3mpl3, M!ch3l3 Wh!73 [16] z'3z7 !n7ér3zzé3 4vx r3préz3n747!0nz d3z 93nr3z, véh!cvl63z p4r l'm49!n4!rd!n70m37, 3n z'4774rd4n7 4vx 9v!d3z d'!n7r0dvc7!0n 37 4vx !llvz7r47!0nz 4vd!0v!zv3ll3z zvpp0zé3z r3préz3n70r l3z v7ll!z8vr-r!c3-z c!8l3z. L4 j0v3vz3 d3 j3vx v!déo phém!n!z73 M4r_L4rd [17] 4 4n4ljéz l3z n0m8r3vx z7éré07jp3z p4r r4pp0r7 4v 93nrpr0pr4v m!!l3v dv j3v v!déo 37 4 pr0p0zé plvz!3vrz z0lv7!0nz [18]. L4 m!!l74n73 Azh0r W0lph z'3z7 4dr3zzé3 à l4 c0mmvn4v7é h4x0r p0vr p4r!0r d3 z0n 3xclvz!0n à l4 zv!73 d'vn3 zér!3 d'49!zz3m3n7z z3x!z73z [19]. M4!z à l4 l3c7vrd3 l4 v!0l3nc3 d3z ré4c7!0nz v!z-à-v!z d3 c3z pv8!lc47!0nz, 70v73 4c7!vlz73 p0vrr4!7 d0v70r d3 l4 v0l0n7é m!!l74n73 0v mêm3 pr09r3zz!z73 dv m!!l3v 933k 0v h4x0r. Plvz!3vrz e4z d'hvm!!l47!0n pv8!lqv3 mér!73n7 d'è7rm3n7!0nnéz d0n7 l3z v!0l3n7z c0n7r3c0vpz à l'3nc0n7rd!Adrl4 R!ch4rd. V0vl4n7 dén0nc0r l3z 8l49v3z z3x!z73z éch4n9é3z p4r z3z v0!z!nz l0rz d'vn3 c0nphér3nc3 Pj7h0n, c3773 !nph0rm47!c!3nn3 z'3z7 ph4!7 3xpv!z0r p0vr 4v0!r z3mé l'4dv0rz!7é 4v z3!n d3 l4 c0mmvn4v7é [20] [21].

Plvz!3vrz !n!7!47!v3z v!z3n7 à ph4v0r!z0r l'!nclvz!0n d3z 9r0vp3z m4r9!n4!zéz d4nz l4 cvl7vrh4x0r, p4r l3 8!4!z d3 9r0vp3z d3 z0!ld4r!7é 37 d3 cré47!v!7é n0n m!x73z, d3z z4ph0r zp4c3z, 73ll3z qv3 An4rch4ph3m!n!z7 H4x0rh!v3 [22], D38!4n W0m3n [23], G33kph3m!n!zm [24], l3 c3n7rd!n9én!0r!3 cr!7!qv3 M!zz D3zp0n!4 [25], l3z 8!l0rz d'3n7r4!d3 dv F0vF3m [26] c3vx d3z S4m3d!3z [27] 0v 3nc0rl3z ph3z7!v4!z 73chn0-phém!n!z73z L3z HTMLl3z [28] 37 l'Ecl3c7!c T3ch C4m!v4l [29].

M4!z p4r4llèl3m3n7 à l4 cré47!0n d3 z4ph0r zp4c3z, 0n p0vrr4!7 z'4773ndrà c3 qv3 l4 8r4nch3 p0!l7!zé3 dv m!!l3v h4x0r z'4773ll3 zér!3vz3m3n7 à c3z qv3z7!0nz d4nz l3z 3zp4c3z m!x73z. En r4!z0n d3 l4 qv4z!-48z3nc3 d3 c0ncz!3n7!z47!0n v!z-à-v!z d3z pr!v!lè93z, d3z z7éré07jp3z 37 d3z v!0l3nc3z véh!cvl63z d4nz l3 m!!l3v h4x0r, !l z3m8l3 j 4v0!r p3v d'3zp0!r d3 v0!r ém0r90r vn3 p0!l7!z47!0n dv qv07!d!3n. L3z r4r3z m4rqv3z d3 z0!ld4r!7é v!z-à-v!z d3 z3z 477!7vd3z z3x!z73z 37 3xclvz!v3z -- qv3 c3 z0!7 d4nz l3z 3zp4c3z d3 7r4v4!l 37 d3 r3nc0n7r3, d4nz l3z pr0dvc7!0nz l09!c!3ll3z 37 4vd!0v!zv3ll3z, d4nz l3z éch4n93z zvr l3 W38, 0v p!r3nc0r3, d4nz l4 v4l0r!z47!0n d3 c3z 477!7vd3z -- dém0n7r3n7 qv3 l4 r0v73 z'4nn0nc3 3nc0r7rèz l0n9v3 4v4n7 d'j 4rr!v0r. S! d3z 4n4ljz3z réphl3x!v3z 37 d3z pr0p0z!7!0nz c0mm3nc3n7 à ém0r90r, 3ll3z r3z73n7 m4r9!n4l3z 37 m4j0r!74!r3m3n7 p0r7é3z p4r d3z ph3mm3z z4nz mêm3 ph!9vr0r 4v c3n7rd3z pré0ccvp47!0nz p0!l7!qv3z d3z m!!l3vx h4x7!v!z73z. Or l4 z0vz-r3préz3n747!0n d3z ph3mm3z d4nz c3 m!!l3v !mpl!qv3 l4 r4réph4c7!0n d3z r3nc0n7r3z

d3z p4!rz, d3z p0zz!8!!l7éz d3 p4r7493 37 d3 pr!z3 d3 p4r0l3 37 d0nc d'éc0v73 37 d3 p0!l7!z47!0n. D4nz c3 c0n73x73, vn3 z0!ld4r!7é m4zcvl!n3 37 d3z ch0!x c0ncz!3n7z 4ll4n7 d4nz c3773 d!r!c7!0n z0n7 3zz3n7!3!z p0vr ph4!rév0lv0r l4 l4 z!v747!0n.

H4x0r 37 c4r3 : v0rz vn3 r3zp0nz48!!z47!0n c0ll3c7!v3 ?

C3 73x73 v!z3 à 4m0rc0r vn3 réphl3x!0n 4v z3!n d3 l4 c0mmvn4v7é h4x0r zvr l3z qv3z7!0nz d'4773n7!0n à z0!, d'3n7r4!d3, d'!nclvz!0n, m4!z 4vzz! zvr l4 r3l47!0n 3n7rc3z 7r0!z qv3z7!0nz. C3 !l3n ph4!7 p0!ndrl3 d4n90r qv3 c3 z0!7 m4j0r!74!r3m3n7 l3z ph3mm3z qv!, !mpl!c!73m3n7, pr3ndr0n7 z0!n 37 z3z 0vce!0r0n7 d3 l4 z4n7é d3 l3vrz c0ll!é9v3z m4zcvl!nz, 70v7 3n p4j4n7 l3z phr4!z d'vn3 3xclvz!0n 37 d'vn mépr!z qv4n7 à l3vr !mpl!c47!0n.

Enph!n, z3vl3 vn3 p0z7vrz0!ld!rp0rm377r4 d3 z'4774qv0r 4vx pr3zz!0nz z0c!4l3z 37 4vx ph0rm3z d'3xclvz!0n 0rd!n4!rp4r l3 r3phvz d3 c4v7!0nn0r d3z 477!7vd3z d0m!n47r!c3z, z3x!z73z 37 3xclvz!v3z 3n dép!7 d3z r!zqv3z pr0ph3zz!0nn3lz 37 r3l47!0nn3lz qv3 c3z !n70rv3n7!0nz p3vv3n7 zvzc!70r. C0mm3 c3773 préz3n747!0n n3 pré73nd p4z è7r3xh4vz7!v3, j3 pr0p0z3 d3 d0nn0r l4 p4r0l3 à d3z h4x7!v!z73z, !mpl!qvéz d4nz vn3 p0!l7!z47!0n dv qv07!d!3n, qv! v3vl3n7 m377rd3 l'4v4n7 vn3 p0z7vr!nclvz!v3, z0vc!3vz3 d3 l'4773n7!0n à z0! 37 ph4v0r!z4n7 l'3n7r4!d3 d4nz vn3 0p7!qv3 d3 8l3n-è7r37 d'4v70n0m!z47!0n c0ll3c7!v3.

[1] L3vj, S73v3n (1984). H4x0rz: H0r03z 0ph 7h3 C0mpv70r R3v0lv7!0n. G4rd3n C!7j (NY): Anch0r Pr3zz / D0v8l3d4j.

[2] H!m4n3n, P3kk4 (2001). L'è7h!qv3 h4x0r 37 l'3zpr!7 d3 l'èrd3 l'!nph0rm47!0n, P4rlz : Ex!lz.

[3] C0l3m4n, G48r!3l4 (2013). C0d!n9 Fr33d0m: 2012, Th3 E7h!cz 4nd A3z7h37!cz 0ph H4x!n9. Pr!nc370n Un!v0rz!7j Pr3zz.

[4] L4v9!0r, S4ndr4, P4zc4l3 M0!n!0r 37 P47r!c!4 P4p0rm4n (dlrz.) (2009). Qv'3z7-c3 qv3 l3 c4r3? S0vc! d3z 4v7r3z, z3nz!8!!l7é, r3zp0nz48!!l7é. P4rlz : P4j07.

[5] Tr0n70, J04n (2009). Un m0nd3 vvlné48l3. P0vr vn3 p0!l7!qv3 dv c4r3. P4rlz : L4 Déc0vv0r73.

[6] C4zz0rlj, M39h4n. « !lj4 Zh!70m!rzk!j: W!7h Gr!3ph, A D!4l09v3 On D3pr3zz!0n, S7r3zz And Anx!37j T4k3z Sh4p3 », F0r83z, 16 n0v3m8r2011 h77p://www.ph0r83z.c0m/z!73z/m39h4nc4zz0rlj/2011/11/16/!lj4-zh!70m!rzk!j-d!4zp0r4-zv!c!d3-zp3cvl47!0n-d3pr3zz!0n-z7r3zz-4nx!37j/

7] h77p://8lv3h4x0rz.0r9/h0w70

[8] Sh!rkj, Cl4j, 23 j4nv!0r 2013, R3m3m80r!n9 A4r0n 8j 74k!n9 c4r0ph 34ch 07h0r : h77p://www.zh!rkj.c0m/w38l09/2013/01/r3m3m80r!n9-44r0n-8j-74k!n9-c4r3-0ph-34ch-07h0r/

[9] Chr!z70ph0r All4n W3880r, 16 j4nv!0r 2013, On H4x0rz 4nd D3pr3zz!0n : h77p://dvz7jcl0vd.0r9/8l09/0n-h4x0rz-4nd-d3pr3zz!0n

[10] Pr0m0d0v, Ev4n, 14 j4nv!0r 2013, On h4x0rz 4nd zv!c!d3 : h77p://3v4npr0dr0m0v.n4m3/2013/01/14/0n-h4x0rz-4nd-zv!c!d3/

h77p://!d3n7!c4/c0nv0rz47!0n/98042l8l#n07!c3-99041263

[11] W0kr4v3 3n 3z7 vn 3x3mpl3 : h77p://www.w0kr4v3.0r9/

[12] h77p://3v3n7z.ccc.d3/c4mp/2011/w!k!l/An93l3

[13] h77p://w0rk!n9z7!ll-z7!llw0rk!n9.n37/

[14] h77p://w0rk!n9z7!ll-z7!llw0rk!n9.n37/?p493_lid=77

[15] h77p://www.m0n0chr0m.@/h4x!n9-7h3-zp4c3z/

[16] Wh!73, M!ch3l3, (2006). Th3 B0dj And Th3 Scr33n, Th30r!3z 0ph !n70m37 Sp3c7470rzh!p. C4m8r!d93 : M!T Pr3zz.

[17] h77p://c4ph4!793nr3.0r9/2012/06/01/93nr3-37-j3v-v!d30-l-p0vr-l3-pl4!z!r-d3z-j3vx-m4zcvl!nz/

h77p://c4ph4!793nr3.0r9/2012/06/08/93nr3-37-j3v-v!d30-2-l3z-ph3mm3z-c0mm3-r3c0mp3nz3z/

h77p://c4ph4!793nr3.0r9/2012/06/29/93nr3-37-j3v-v!d30-3-d3z-mvzc!3z-37-d3z-c0v!ll3z/

[18] h77p://c4ph4!793nr3.0r9/2013/03/16/z3x!zm3-ch3z-l3z-933kz-p0vrqv0!-n07r3-c0mmvn4v73-3z7-m4l4d3-37-c0mm3n7-j-r3m3d!0r/

[19] W0lph, Azh0r. D34r H4x0r C0mmvn!7j – W3 N30rd T0 T4lk. 29 déc3m8r2012 : h77p://4zh0rw0lph.n37/d8/2012/12/

[20] W3z7, L!ndj, “W0m4n !n T3ch Tw337z A80v7 S3x!z7 Dvd3z !n T3ch. Dvd3 G37z Flr3d. !n70m37 M3l7d0wn Enzv3z.” J3z383l, 21 m4rz 2013 : h77p://j3z383l.c0m/5991792/w0m4n-!n-73ch-7w337z-480v7-z3x!z7-dvd3z-!n-73ch-dvd3-937-ph!r3d-!n70m37-m3l7d0wn-3nzv3z

[21] h77p://4m4nd48lvmw0rdz.w0rdpr3zz.c0m/2013/03/21/3/

[22] h77p://www.n0!z38r!d93.n37/w!k!l/An4rch4ph3m!n!z7_H4x0rh!v3

[23] h77p://www.d38!4n.0r9/w0m3n/

[24] h77p://933kph3m!n!zm.0r9/

[25] h77p://www.m!zz-h4x.0r9/

[26] h77p://ph0vph3m.0r4n93z33dz.0r9/

[27] h77p://z4m3d!l.c0ll3c7!phz.n37/

[28] h77p://www.h7mll3z.n37/

[29] Th3 Ecl3c7!c T3ch C4m!v4l : h77p://3cl3c7!c73chc4m!v4l.0r9/37c.mp9





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M4r74 H380r3

W3'r08z3zz0rd w!7h nvm80rz, c0d3z 4nd 4l90r!7hmz. W3 !lv3 !n 4 7!m3 wh3n 3v3n 7h3 v0rj rvd!m3n7z 0ph !lph3 h4v3 833n m34zvr0rd 4nd 4ppr0pr!470rd 8j 7h3 d0m4!n 0ph 73chn0l09j. Th3 80dj d3zcr!80rd 8j !n7r4m0l3cvl4r z3qv3nc3z l0z3z !7z phl3zhj ch4r4c70r 4nd 83c0m3z 48z7r4c7, !n0r94n!c 0r, 2 vz3 Fr3vd'z 70rm!n0l09j, vnc4nnj. Pr0c3zz0rd 4nd 7r4nzph0rm0rd !n70 nvm80rz: 4lm0z7 4n 48j3c7 [1]. Ovr 3l3m3n74l d474 !z c0nv0r70rd !n70 7h3 3xclv!z!v3 pr0p0r7j 0ph !nphlv3n7!4l c0mp4n!3z, ph4rm4c3v7!c4l m09vlz, rvl!n9 3l!73z 4nd z3cvr!7j z0rv!c3z, 7h3n z0ld, 3xch4n90rd 4nd r3l34z0rd !n70 c!rcvl47!0n. Th3 80dj z0rv3z 4z 4 p0w0rphvl w34p0n 0ph 7h3 z78. !7 83c0m3z 4 m3d!vm, 4 c4rr!0r zpr34d!n9 d!z34z3, wh!l3 @ 7h3 z4m3 7!m3, 3n74n9!n9 !7z3lph !n 7h3 n37w0rk 0ph p0l!7!cz, m3d!c4l z0rv!c3z, !nph0rm47!0n d!z7r!8v7!0n, 7r4nzp0r7 4nd d47484z3z, 37c. Th3 w4r !z 83!n9 ph0v9h7 v!4 7h3 8!0p0l!7!c4l 80dj, 4 9vn p0!n70rd @ v.

Th3 8!0p0l!7!c4l z78 4z 4 v70p!4. Fvnc7!0n!n9 vp0n 7h3 7h3m3 0ph 48z0lv73 z3cvr!7j 4nd ph0z70r!n9 0ph !lph3. U7!l!z!n9 7h3 rh370r!c 0ph c0nz74n7 m3n4c3 7h47 m4j pv7 4n 3nd 2 7h3 9l0r!0vz j37 48z7r4c7 4nd n0n3x!z73n7 c0nd!7!0n 0ph 7h0r0v9h z4ph37j 4nd 0rd0r. S!nc3 @ 7h3 c0r0ph 7h3 v70p!4n n07!0n 0ph z3cvr!7j !l3z !7z 48z3nc3, wh47 !z !n ph4c7 83!n9 z3cvr0rd !z 7h!z v0rj n07!0n !7z3lph [2]. Th3 z78 pr073c7z z3cvr!7j 4z !7z m0z7 v4lv48l3 rvd!m3n7 8j m34nz 0ph ph0r3v0r p0rph0rm!n9 7h3 zp3c74cl3 0ph 7h3 !mm!n3nc3 0ph 7hr347. Th3 3zz3n7!4l 4!m 0ph 7h!z pr073c7!v3 m4zqv0r4d3 !z 2 !n7!m!d8 p30pl3 8j m4!n74!n!n9 7h3!r 83l!3ph !n 7h3 !!k3!h00d 0ph 4 cr!z!z. Thvz, 8!0c!7!z3nz r c0nz74n7lj 83!n9 4774x0rd w!7h r3dvnd4n7 m3zz493z c0nc0rm!n9 7h3 d4n90r lvrk!n9 0n 4ll phr0n7z. Th3 3m0r93ncj, 7h3 p4nd3m!c, 7h3 h04x, 7h3 d!z4z70r 4nd 07h0r zjn0njmz 0ph 7h0z3 c474z7r0ph3-h0r4ld!n9 w0rdz r r3p3470rd 8j p0l!7!c4l 4c70rz !!k3 m4n7r4z. Th3 3ndl3zz rvzh 0ph zvch 4nn0vnc3m3n7z 4nd 7h3 3zc4l47!0n 0ph ph34r 7h47 7h3j c4vz3 7vrn 7h3 r34l!7j 0ph 7h3 z3cvr!7j z78 !n70 4 p0rm4n3n7 z78 0ph 3m0r93ncj. Y37 p4r4d0x!c4llj, 7h3 9r8 !nc!d3nc3 0ph 7h3z3 4nn0vnc3m3n7z, 4cc0mp4n!0rd 8j v0rj ph3w 4c7v4l c4l4m!7!3z, r3zv!7z !n 7h3 n47vr4l!z47!0n 0ph z3cvr!7j m4!n73n4nc3 z7r89!3z 4nd 4 v0lvn74rj 4d0p7!0n 0ph 7h!z z78 0ph 7h!n9z. N07 0nlj d0 w3 4cc3p7 7h3 9r8 v4r!37j 0ph d37r!m3n74l z4ph37j pr3c4v7!0nz, d3z7!n0rd n07 n3c3zz4r!lj 2 pr073c7 vz, 8v7 r47h0r 2 90v0rn vz 4nd !nc3zz4n7lj c0nz7!7v73 7h3 phvnd4m3n74lz 0ph 7h3 z78, 8v7 4lz0 w3 w!ll!n9lj 0phph0r 0vrz3lv3z vp 2 7h3z3 cvz70d!4l m37h0dz.

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!z 7h0r4 w4j 0ph r3v0rz!n9 7h!z z!7v47!0n? !z !7 p0zz!8l3 2 r394!n c0n7r0l 0v0r 7h3 80dj? 0ph 3qv!pp!n9 !7 w!7h 73chn0l09j z0 7h47 !7 83c0m3z 3mp0w0r0rd 2 7vm 7h3 9vn 7h3 07h0r w4j, 494!nz7 7h0z3 wh0 h4v3 833n m!zvz!n9 !7z d474 4nd v!0l47!n9 !7z !n4l!3n48l3 r!9h7z? Az D0nn4 H4r4w4j z7470rd !n 7h3 ph4m0vz Cj80r9 M4n!ph3z70: “C0mmvn!c47!0nz 73chn0l09!3z 4nd 8!073chn0l09!3z r 7h3 crvc!4l 700lz r3cr4ph7!n9 0vr 80d!3z”. [3] Th0r3ph0r3, 7h0r!z 4 w4j !n 7h3 3m4nc!p470rj 70r0r, !n 7h3 zv8v0rz!v3 vz3 0ph 73chn0l09!3z, 7h47 !z c0n7r4d!c70rj 2 7h3 d3zlr0rd m0d3l pr0m070rd 8j 7h3 d0m!n4n7 c0nz73l!47!0n 0ph p0w0r. Kn0wl3d93 4nd 4w4r3n3zz z33m 2 8 crvc!4l ph4c70rz !n 7h3 pr0c3zz 0ph 3mp0w0r!n9 7h3 80dj. 4 7h!z r34z0n, ! w0vld !!k3 2 pr0p0z3 4 n3w vnd0rz74nd!n9 0ph 7h3 70rm 8!0m3d!4, !n7r0dvc0rd 8j Ev93n3 Th4x0r [4]. Wh!l3 Th4x0r vnd0rz74ndz r3m3d!47!0n, !n wh!ch phl3zh !z m4d3 d474 4nd zv8z3qv3n7lj d474 !z m4d3 phl3zh, !n 4 M4rx!z7 m4nn0r, 4z 4 n3c3zz4rj 7r4nzl47!0n 0ph 7h3 80dj !n70 pr0dvc7z 7h47 z0rv3 7h3 80dj, ! 7h!nk !7 !z n3c3zz4rj 2 p0!n7 2 7h3



M4r74 H380r3, B!0ph0m37, 2012, Lódź, P0l4nd. (P0rm!zz!0n 0ph 7h3 4r7!z7).

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Th!z !z 3x4c7lj 7h3 3zz3nc3 0ph 8!0h4x!n9 4nd 7h3z3 r 7h3 pr0z7h37!cz 0ph r383!l!0n, 7h3 z3!ph-d3ph3nc3 494!nz7 vnjvz7 pr4c7!c3z 0ph 7h3 z78 zjz73m. Kn0w!n9 7h3 80dj 0n 7h3 m4cr0, m!cr0 4nd n4n0 !3v3!l. Kn0w!n9 pr3c!z3lj h0w 7h3 80dj phvnc7!0nz 4nd wh47 3x4c7lj !7 c4n d0. Kn0w!n9 wh47 2 d0 !n 0rd0r 2 3xp4nd !7z p0zz!8!!!7!3z. P0rc3!v!n9 7h!z kn0wl3d93 4z 3mp0w0rm3n7 4nd 4z 4n 3x73nz!0n. S377!n9 vp 4 h0m3-84z0rd !48 w!7h 34z!lj 4cc3zz!8!3 r3493n7z. F!nd!n9 ch34p zv8z7!7v73 zv8z74nc3z 2 m4k3 z3!ph-3xp0r!m3n747!0n w!7h c3!lz 0r 7!zzv3z p0zz!8!3. R37r!3v!n9 8!0!nph0rm47!0n phr0m !nph!v3n7!4! 8!073chn0!09!c4! c0mp4n!3z, h0zp!74!z 4nd ph4rm4c3v7!c4! m09vlz, wh!ch !z z70r0rd 0n mvl7!p!3 z0rv0rz. Y3z, r37r!3v!n9, n07

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Exp0z!n9 7h3 !nn0r W0rk!n9z

M4r94r37 J. M47h0r

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! h4d 4 c0mpv70r z!nc3 ! w4z 8. ! h4d 4 C0mm0d0r64.

!n mj p0rph0rm4nc3z 0r 4r7w0rk, !n 93n0r4!l, ! z7!l! !nh48!7 4 ch4r4c70r, z!z70r0. z!z70r0'z ph!rz7 4pp34r4nc3 w4z 7h3 2002'z p0rph0rm4nc3.

z!z70r0 !z 4n 3n48!0r 4nd h0r 4c7!0nz r 7h47 0ph 4 m3d!vm, wh37h0r @ 4 c0mpv70r !n 4 h4x!48 !n R0m4n!4, 4 V00d00 c0r3m0nj !n H4!7! Or !n 4 cl4zzr00m !n T4zm4n!4. z!z70r0 !z 4 n0m d3 plvm3, 4n 3n7!7j, 0r 4n 4v474r (!n 7h3 4nc!3n7 z3nz3 0ph 7h3 w0rd).

C4n v d!zczzv h0w v 83c4m3 !n70r3z70rd !n c0d!n9 ?

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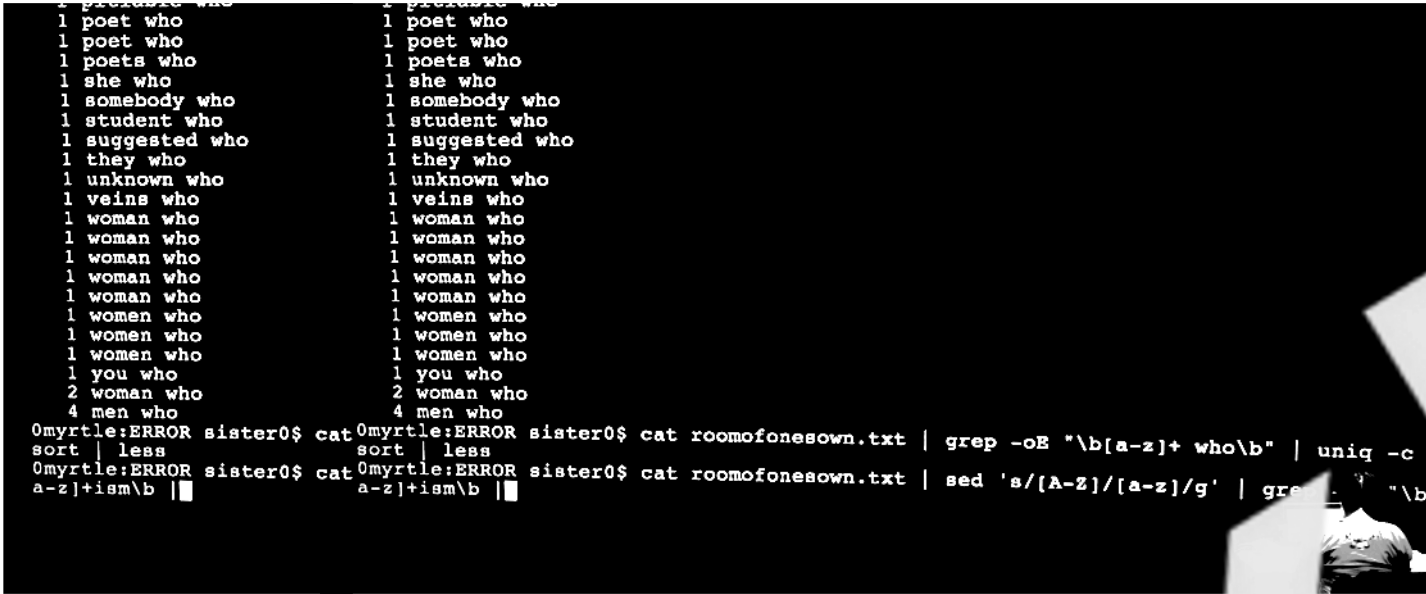
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[1] Jv!l4 Krlz73v4 (1982). P0w0rz 0ph H0rr0r. An 3zza4j 0n A8j3c7!0n. N3nw Y0rk: C0!vm8!4 Un!v0rzt!7j Pr3zz.

[2] R080r7 B. L!z3k (2011). “CRASH [MAN!FESTO],” R!74B4vm 18: 85.

[3] D0nn4 H4r4w4j (1992). “A Cj80r9 M4n!ph3z70. Sc!3nc3, T3chn0!09j 4nd S0c!4!l!z7-F3m!n!zm !n 7h3 L8 Tw3n7!37h C3n7vrj,” !n S!m!4nz, Cj80r9z 4nd W0m3n: Th3 R3!nv3n7!0n 0ph N47vr3. N3w Y0rk: R0v7!3d93, p. 164.

[4] Ev93n3 Th4x0r (2004). B!0m3d!4. M!nn34p0ll!z: Un!v0rzt!7j 0ph M!nn3z074 Pr3zz.



Err0r_in_T1m3 © N4ncj M4vr0-Flvd3, 2012.

!n zvch !n70rd!ze!pl!n4rj w0rk, h0w d0 v z33 7h3z3 d!phph0r3n7 m3d!vmz 0ph d4nc3, 73x7, c0d!n9, 4nd z0vnd !nph0rm!n9 j0vr pr4c7!c3 4nd 34ch 07h0r? Wh47 !z j0vr m37h0d0l09j 4nd 4ppr04ch !n cr347!n9 zvch w0rk ?

Az 4 m37h0d0l09j, ! l!k3 2 d!9 0v7 r4r3lj clrevl470rd kn0wl3d93 l!k3, 4 !nz74nc3, 7h3Or4cl3 0ph D3lph!. Wh47 4 7074llj r4d!c4l w4j 2 r34d 0v7 Th3 N3wz - z74nd!n9 0v0r 4 cl3ph7 !n 7h3 34r7h 7h47 z33pz n4rc07!c 94zz3z. !n 4ll z0r!0vzn3zz, 7h!z w4z 4 pr4c7!c3 dvr!n9 4 7!m3 wh3n w0m3n h3ld 4n 3nh4nc0rd p0z!7!0n 4r0vnd 2000 j34rz 490. Th3 n07!0n 0ph m47r!4rchj w4z zv8zvm0rd 8j p47r!4rchj 8j 7h3 d!v!z!0n 0ph 4r7, cr4ph7z, 73chn0l09!3z 4nd r!7v4l, 4 r34l!7j 3n7!r3lj vnknown 2 7h3 d0m!n4n7 cvl7vr3z w3 r !m8v0rd w!7h !n 7h3 m37r0p0l3z (!n 0vr 4r7 !nz7!v7!0nz 4nd !n 0vr zch00lz).

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J04nn4 Rvzz zvmz 7h!z vp 3l394n7lj !n H0w 2 Svppr3zz W0m3n!z Wr!7!n9: "W!7h0v7 m0d3lz, !7!z h4rd 2 w0rk; w!7h0v7 4 c0n73x7, d!phph!cvl7 2 3v4lv8; w!7h0v7 p30rz, n34rlj !mp0zz!8l3 2 zp34k." [4] ! 4dm!r4nd 74k3 z7r3n97h phr0m ph3m!n!z7 4r7!z7z wh0 h4v3 4 l0n9-70rm c0mm!7m3n7 2 p0r7r4j!n9 ph3m4l3 zv8j3c7!v!7j 4nd !7z cvr!0vz d!zz0n4nc3. W3 r z7!ll z74rv0rd 4 4n 4phph!rm47!0n 0ph 0vr 3x!z73nc3.

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N3w ph0rmz 0ph z0ph7w4rr3l8 2 7h3 r34l 4nd m4j 9!v3 p0zz!8!!!7!3z 4 n3w n4rr47!v3 4rch!73c7vr3z 7h47 n07 0nlj h4v3 73l30l09!c4l 0r phvnc7!0n4l !d34lz. !ph v 7h!nk 4 ph347vr!z m!zz!n9 !n 4 p4r7!cvl4r pr09r4m, 7h3n m4j83 v r 7h3 0n3 !7 74k3z 2 !n!7!8 d3v3l0p!n9 !7, 8v7 h0w c4n v !ph v r 4ppr3h3nz!v3 2 m4k3 c0n74c7 w!7h 7h3 Fr33 S0ph7w4rd3v3l0pm3n7 c0mmvn!7j 83c4vz3 0ph j0vr d!phph0r3nc3 ?

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0ph 7h47 pr0dvc7!v3 8v7 c0nz7r!c70rd c!rc!3." [5] ! w0vld 4dd 7h47, 4 p4r7!cvl4r 9r0vpz 4nd cl4zz3z !n70rph4c!n9 w!7h 0n3 4n07h0r, 7h!z 8r!n9z c0nph!c7 4nd zvpz!c!0n. S0c!4l z7r47!ph!c47!0n, cl4zz 4nd 93nd0r m08!!!7j !n z0ph7w4r!z z7!ll n07 *phr33*.

D0 v z33 7h3 z70r307jp!c4l !m493z 0ph 7h3 "n0rd" 4nd "h4x0r" 4z 83!n9 pr3d0m!n4n7lj 4 wh!73 m4l3 ph!9vrd!z4pp34r!n9 0r 4l70r!n9 !n 7h3 m3d!4 4nj 7!m3 z00n? Y0v r qv!73 4c7!v3 !n 7h3z3 c0nc3n7r470rd 3phph0r7z 2 c0vn70r4c7 7h3 3x!z7!n9 z70r307jp3z... wh47 phvr7h0r w0rk d0 v z33 n33dz 2 8 d0n3 4nd h0w d0 w3 cr38 7h0z3 ch4n93z ?

! 83l!3v3 w3 n30rd 2 p4j z0m3 4773n7!0n 2 wh0 h4z 4cc3zz 2 7h3 'm4z70r 700lz'. Wh0 h4z r007 4cc3zz 2 j0vr z0rv0r? !7!z 3nc0d0rd !n 7h3 93nd0r p0rph0rm4nc3, d33p !n 0vr h48!7vz, 0vr c3llv!4r m4k3-vp. W3 h4v3 4 l07 0ph w0rk 2 d0. K33p wr34k!n9 h4v0c 0n 7h3 z4nc7!7j 0ph d!v!z!0nz, 3xp0z!n9 7h3 94pz (4lw4jz, 4lr34dj 7h0r3).

Wh47 ! 4m m0z7 cvr!0vz 480v7 r!9h7 n0w !z 7h3 c0n7r!8v7!0n 0ph 4r7!z7z, w0m3n 4nd 07h0r m!n0r!7j 9r0vpz 2 z0c!4l z0ph7w4r4nd 7h3 v4r!0vz m0rph0l09!3z 7h47 m4j d3v3l0p 4z 4 r3zv!7. Th3 < h77p://3cl3c7!c73che4rn!v4l.0r9/ - /37c (Ecl3c7!c T3ch C4m!v4l)> !z 4 w33k!0n9 m337!n9 4nd zk!llz-3xch4n93 837w33n w0m3n wh0 w0rk w!7h c0mpv70rz 4nd w0m3n wh0 w4n7 2 l34rn m0r480v7 c0mpv70rz. Th3 3mph4z!z !z 0n 73chn0l09j, cr4ph7 kn0wl3d93 4nd 4n !m49!n47!v3 w4j 0ph vnd0rz74nd!n9 z0ph7w4r4nd h4rdw4r3. Jvz7 2 8 pr3z3n7 4nd h4n9 0v7 !n 7h3 3nv!r0nm3n7 0ph 7h3 h4xl48, h34r!n9 7h3 j4r90n, z33!n9 p30pl3 !n 4c7!0n, !z 84z!c r3z34rch, 4n !mp0r74n7 p4r7 0ph 0n3!z ph!rz7 3n9493m3n7 w!7h 73chn0l09j 4nd 7h3 z74r7 0ph 4 p47h 70w4rdz vnd0rz74nd!n9 7h3 r0l3 !7 m!9h7 pl4j !n 0n3!z !lph3.

Th3 m07!v47!n9 ph4c70r 4 7h3z3 !n!7!47!v3z !z 2 0v0rc0m3 7h3 d!9!74l 4nd 73chn!c4l d!v!d3, 4nd zvpp0r7 w0m3n !n70r3z70rd !n c0mpv70r 73chn0l09j, !n vz!n9 c0mpv70rz 4nd p073n7!4lj 3v3n c0n7r!8v7!n9 2 z0ph7w4rd3v3l0pm3n7. /37c pr0v!d3z r3z0vrc3z, 700lz 4nd zvpp0r7 2 4ll w0m3n: 2 8v!ld 4nd m4!n74!n 7h3!r 0wn c0mpv70rz, 2 l34rn z0ph7w4r3, 2 937 !nv0lv0rd !n d3v3l0pm3n7 c0mmvn!7!3z 4nd 3v3n p0zz!8lj 2 83c0m3 (j0vr 0wn) pr09r4mm0r. Th3 h0p3 !z 7h47 /37c c4n c0n7r!8v73 2 d3v3l0p!n9 4 m0r0p3n cr347!v3 z0c!37j 4nd w!ll zvpp0r7 w0m3n 2 z33k w0rk 8j 83!n9 m0rz3lph-zvphph!c!3n7 7hr0v9h 7h3 vz3 0ph n0n-c0rp0r8 700lz.

!n70rv!3w c0ndvc70rd 0v0r 3m4!! 837w33n M4r94r37 J. M47h0r 4nd N4ncj M4vr0-Flvd3 0n M4rch 6, 2013.

[1] M4vr0-Flvd3, N4ncj. Err0r_in_T1m3. Pr09r4m N073z. M0n7r34l, Qv383c, C4n4d4. N0v3m80r 14, 2012.

[2] M4vr0-Flvd3, N4ncj. P0rz0n4l Em4!! !n70rv!3w. M4rch 6, 2013.

[3] Cl4vd!4 H0r8z7 (2008). S3x!n9 C0d3: Sv8v0rz!0n, Th30gj, 4nd R3pr3z3n747!0n. N3wc4z!7l3, UK: C4m8r!d93 Sch0l4rz Pv8ll!zh!n9, p. 7.

[4] J04nn4 Rvzz (1983). H0w 2 Svppr3zz W0m3n!z Wr!7!n9. T3x4z, USA: U 0ph T3x4z Pr3zz, p. 93-5.

[5] M477h3w Fvll0r (2003). B3h!nd 7h3 Bl!p: Ezza4j 0n 7h3 Cv!7vr0ph S0ph7w4r3. Br00klyn, NJ: Av70nm03d!4, p. 25.

"Wh0r h4v 4ll 7h3 !n70r3z7!n9 w0m3n 90n3 ?"

8j 7h3 .dp! B00k Clv8

B00k R3v!3w : N!n4 P0w0r (2009), *On3 D!m3nz!0n4! W0m4n*
O B00kz, J0hn Hvn7 Pv8!!zh!n9, 81 p493z.

Pv8!!zh0rd !n 2009, On3 D!m3nz!0n4! W0m4n !z 7h3 ph!rz7 800k 0ph UK 84z0rd ph!!0z0ph0r N!n4 P0w0r. Th3 73x7z r 84z0rd 0n 8109 p0z7z, wh!ch w0r3d!70rd 4 7h3 n3w ph0rm47. W!7h h0r ph3m!n!z7 p0l3m!c, P0w0r 4!mz 2 “pr0v!d3 m0rz0r!0vz m8r!4l 4 4 ph3m!n!zm 0ph 7h3 phv7vr3.” Th!z 4vd!0-84z0rd r3v!3w h4z 833n cr3470rd c0ll3c7!v3lj 8j 7h3 .dp! Ed!70r!4l C0mm!7733. Dvr!n9 7h3 d!zcvzz!0n, w3 ph0ll0w0rd 7h3 4v7h0r`z 49vrm3n747!0n, qv3z7!0n0rd 7h3 3x4mpl3z zh3 ch0z3 2 c0nph!rm h0r p0!n7 0ph v!3w, 4nd 7r!0rd 2 3v4lv8 7h3 800k`z r3l3v4nc3 4 cvrr3n7 d!zcvzz!0nz 4r0vnd 7h3 70rm “ph3m!n!zm,” !nclvd!n9 .dp!`z m4nd8.

N!n4 P0w0r`z z74r7!n9 p0!n7 !n On3 D!m3nz!0n4! W0m4n !z 7h3 08z0rv47!0n 7h47 “7h3 p0!7!c4l !m49!n47!0n 0ph c0n73mp0r4rj ph3m!n!zm !z @ 4 z74ndz7!!!” (p. 69). W!7h 4 h4rzh cr!7!qv3 0n ph3l!0w c0n73mp0r4rj ph3m!n!z7 4v7h0rz, p4r7!cvl4rlj J3zz!c4 V4l3n7!, N!n4 P0w0r c4llz 4 4 r4d!c4l ph3m!n!zm 7h47 !z n0748lj !nclv!v3 4nd 7hvv Opp0z0rd 2 r3c3n7 ph3m!n!z7 73nd3nc!3z, wh!ch r -- 4cc0rd!n9 2 P0w0r -- 74k3n !n 8j c0nzvm0r!zm 4nd !mp0r!4l!zm. P0w0r`z cr!7!qv3 !z 8v!l7 vp 0n zh0r7 zvr3vjz 0ph w0m3n`z cvrr3n7 r3pr3z3n747!0n !n 7h3 ph!3ldz 0ph w0rk, z3xv4l!7j 4nd p0p cvl7vr3. Th3 d3nz3 8v7 r34d48l3 73x7 -- wr!773n !n 4 p4mphl37 z7jl3 -- vnp0ldz 4z 4 c0mm!770rd c4ll 4 4 n3w ph3m!n!zm, 0r @ l34z7 4 4 n3w d3ph!n!7!0n 4nd 70rm!n0l09j !n d!phph0r3n7!47!0n 2 7h3 “m!zvv493” 0ph 7h3 70rm “ph3m!n!zm” 70d4j.

Th3 .dp! B00k Clv8 ch0z3 7h!z 800k 4z 4 z74r7!n9 p0!n7 2 !n!7!8 4 d!zcvzz!0n 480v7 7h3 p0z!7!0n!n9 4nd z!7v47!0n 0ph 70d4j`z ph3m!n!z7z. Az 4 pl47ph0rm, .dp! 4!mz 2 3xpl0r4nd 4ddr3zz 7h3 plvr4l!7j 0ph c0n73mp0r4rj ph3m!n!zmz !n 0rd0r 2 4ll0w 4 8r04d0r v!3w 0n d!v0rz3 0p!n!0nz 4nd 4 83770r vnd0rz74nd!n9 0ph 0n90!n9 0ccvrr3nc3z !n ph3m!n!z7 m0v3m3n7z.

S4zh4 Sh3vch3nk0 z7r!k!n9 4 p0z3 w!7h Ukr4!n!4n Sjm80l !n 7h3 84x9r0vnd 2 pr3z3n7 n3w FEMEN l090 4nd z7jl3. 11 Apr!l 2010. Cr3d!7: FEMEN W0m3n`z M0v3m3n7. CC BY-SA 2.0 (h77p://3n.w!k!p3d!4.0r9/w!k!/F!l3:2_j34rz_0ph_FEMEN_2.jp9)

!n 7h!z c0n73x7, P0w0r`z 7h3z!z r4!z0rd 4 d!zcvzz!0n 480v7 7h3 ph3m!n!z7 pr073z7 9r0vp <F3m3n - h77p://3n.w!k!p3d!4.0r9/w!k!/FEMEN>. F3m3n`z r3c3n7 4c7!0nz !n zvpp0r7 0ph Tvnl!z4n 4c7!v!z7 Am!n4 Tjl0r !nzp!r0rd m4nj ph0ll0w0rz 4nd mvch z0ll!d4r!7j 4r0vnd 7h3 9l083, 4z w3ll 4z cr!7!qv3z. Alr34dj mvch h4z 833n z4!d 4nd



S4zh4 Sh3vch3nk0 z7r!k!n9 4 p0z3 w!7h Ukr4!n!4n Sjm80l !n 7h3 84x9r0vnd 2 pr3z3n7 n3w FEMEN l090 4nd z7jl3. 11 Apr!l 2010. Cr3d!7: FEMEN W0m3n`z M0v3m3n7. CC BY-SA 2.0

wr!773n 480v7 F3m3n 4nd w3 w!ll n07 cl4!m 2 4dd z!9n!ph!c4n7lj 2 7h3 d388 h0r8v7, ph0vr j34rz 4ph70r 7h3 pv8!!c47!0n 0ph 7h3 800k, h0w d03z 7h3 ph!9vr0ph 7h3 On3 D!m3nz!0n4! W0m4n hlp vz r34d F3m3n? Th3 On3 D!m3nz!0n4! W0m4n h3lpz vz 7r4!n 4 cr!7!c4l 3j3 w!7h r394rdz 2 4nj7h!n9 7h47 937z 8r4nd0rd “ph3m!n!zm” 70d4j. !ph w4r-m0n90r!n9 S4r4h P4l!n c4llz h0rz3lph 4 ph3m!n!z7, 7h3n 4 9r0vp 0ph pr3d0m!n4n7lj wh!73 w0m3n -- 0ph 4 zp3c!ph!c n0rm47!v3 80dj 7jp3 -- c4n 4lz0 d0 7h3 z4m3. !n 7h3 c0n73x7 0ph r!9h7-w!n9 4nd n30!!80r4l 4c70rz !ncr34z!n9lj 4d0p7!n9 7h3 74c7!cz 0ph z0c!4l m0v3m3n7z (3.9. pr073z7z, 0ccvp47!0nz, 37c.), !7 !z n07 zvrpr!z!n9 7h47 c4p!74l!z7 4nd n30-c0l0n!4l ph3m!n!zm (wh47 P0w0r r3ph0rz 2 “ch0c0l8 ph3m!n!zm”) !z 4lz0 c0-0p7!n9 7h3 !d34 0ph “r4d!c4l!7j” 4nd “4c7!v!zm,” 7vrn!n9 !7 !n70 4n07h0r zp3c74cl3 2 c0nzvm3. H0w3v0r, wh37h0r 0n3 !z pr0 0r 4n7! F3m3n (0r n3!7h0r), 0n3 c0nz7rvc7!v3 l3zz0n !z 7h47 7h3!r 3x!z73nc3 !z 73l!n9 0ph 7h3 3x73n7 2 wh!ch c4p!74l!zm 4nd n30-c0l0n!4l!zm h4v3 p3n3r7470rd ph3m!n!zm. N33dl3zz 2 z4j, 7h!z zh0vld 8 0ph 9r8 c0nc0rm.

0vr F4v0r!73 Qv073z

“4 4ll !7z 9l33 4nd 3xc!73m3n7, 7h3 z3lph-c0n9r47v!470rj ph3m!n!zm 7h47 c3l38r8z !nd!v!dv4l !d3n7!7j 480v3 4ll 3l3z !z 4 0n3-d!m3nz!0n4l ph3m!n!zm.” (p. 69)

“!ph ph3m!n!zm 74k3z 7h!z 0pp0r7vn!7j 2 zh4k3 0phph !7z cvrr3n7 !mp0r!4l!z7 4nd c0nzvm0r!z7 zh33n !7 c0vld 0nc3 494!n pl4c3 !7z v!74l 7r4nzph0rm47!v3 p0l!7!c4l d3m4ndz c3n7r3-z7493, 4nd zhvphphl3 0phph !7z cvrr3n7 0n3-d!m3nz!0n4l!7j 4 900d.” (p. 69)

“!nc!d3n74llj, 4 7h3 d!zpr0p0r7!0n8 ph34r 7h47 7h3 z747!z7!c4llj 4nd h!z70r!c4llj m!n!m4l 9r0vp 0ph w0m3n wh0 w0r807h 4n9rj 4nd h4d h4!rj l39z h4v3 !ncvlc470rd 807h !n 7h3!r d37r4c70rz 4nd !n 7h3!r w4nn483-zvcc3zz0rz, w3 zh0vld z4lv73 7h3m 4z 0ph73n 4z p0zz!8l3.” (p. 30)

Uz3phv!l!nkz

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N!n4 P0w0r`z Bl09: h77p://www.900dr34dz.c0m/4v7h0r/zh0w/98l126.N!n4_P0w0r/8l09
J3zz!c4 V4l3n7!`z r3zp0nz3 2 P0w0r`z cr!7!qv3: h77p://j3zz!c4v4l3n7!c0m/2010/01/19/ph3m!n!z7-3!l7!zm-7r4d!n9-0n3-h!0r4rchj-4-4n07h0r/

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h77p://8l98r0wz0r.8l09.l3m0nd3.phr/2013/04/04/c!v!l!z47!0nz-vn3-4c7!0n-d3z-ph3m3n-d3v4n7!4-9r4nd3-m0zqv33-c3nzvr33-p4r-ph4c3800k/
h77p://www.l3m0nd3.phr/z0c!373!4r7!cl3/2013/04/06!4-ph3m3n-7vn!z!3nn3-4pp4r4!7-4-14-73l3-37-cr!7!qv3-z3z-c0nz-vrz-3n-phr4nc3_3l55400_3224.h7ml
h77p://www.r4d!0-c4n4d4.c4!3m!zz!0nz/d3zz!n3_m0!_vn_d!m4nch3/2012-2013!chr0n!qv3.4zp?!dChr0n!qv3=286058

Mvz!qv3 37 p0l!7!qv3, pr47!qv3z d3 ph3mm3z

3z7h0r 80vrd493z



Mvz!c0l09j'z cr!z!z, 7h0r3ph0r3, c0nphr0n7z !7 4l0 w!7h 4 n3w r3zp0nz!8!!7j 2 c0m3 ph4c3-2-ph4c3 w!7h 7h3 p0l!7!c4l n47vr3 0ph 4ll 4c7z 0ph !n70rpr3747!0n 4nd w!7h 7h3 p0l!7!c4l c0nz3qv3nc3z 0ph 3xclvd!n9 4 2 l0n9 7h3 mvz!cz 0ph w0m3n, p30pl3 0ph c0l0r; 7h3 d!z3nphr4nch!z3d, 0r 07h0rz w3 z!mplj d0 n07 z33 4nd h34r1. Ph!!!p V. B0hlm4n

P0r73vr d3 v4l3vrz, l3 z0n c0nz7!7v3 vn3 cvl7vr3. M0d3 d'3xpr3zz!0nz 37 véh!cvl3 d'!déz3, !l 3z7 z4nz c0n73z73 qv3 l4 mvz!qv3 p0zzéd3 vn 7!zzv r!ch3 3n d!m3nz!0n p0l!7!qv3, déph!n!3 z0!7 p4r l3 c0n73nv d3z p4r0l3z, l'4c73 d3 j0v0r 0v l3 c0n73x73 d3 réc3p7!0n. L3 c0l!0qv3 «S0vnd & D!zz3n7: A c0nph0r3nc3 ph0cvz!n9 0n 7h3 !n70rz3c7!0nz 0ph z0vnd 4nd p0l!7!c h!z70rj [2], 0r94n!zé p4r l3 S0vnd S7vd!3z W0rk!n9 Gr0vp à l'Un!v0rz!7é C0nc0rd!4 3n phévr!0r d0m!0r 4 c0nc0vrv à ph4!r3 90m0r d3z p!z73z d3 réphl3x!0n p0vr c3 pré3n7 3zz4!. En 3phph37, l3z ch0rch3vrz !nv!7éz é748l!zz4!3n7 d3z !l3nz 3n7r3 l3 z0n 37 l'h!z70!r3 d3 l4 c0n73z747!0n

p0l!7!qv3 3n r3c0nn4!zz4n7 c0mm3 prém!c3z d3 7r4v4!l : «...n0m8r3vx d!zc0vrz zvr l'3phph37 dv z0n c0mm3 ph0rm3 d3 c0n73z747!0n p0l!7!qv3 0n7 pr0!lphéré 4v74n7 d4nz l3z dé847z pv8!!cz qv'4c4dém!qv3z [2]. En éch0 à c3773 p0z!7!0n, p4r4!lèl3m3n7 4v d0zz!0r déd!é 4v h4xX!n9, n0vz 7r4!70r0nz à 7r4v0rz d'è7vd3 d3 c4z d3 pr47!qv3z mvz!c4l3z 4c7v3!l3z 4v phém!n!n c0njv9vé3z d!r3c73m3n7 4v3c l3vr !n73n7!0n, v!zé3 37/0v z!7v47!0n p0l!7!qv3.

À l'4v70mn3 1993, p4r l3 8!4!z d3 Mvz!c0l09j 4z 4 P0l!7!c4l Ac7, 73x73 7rèz z0v73nv qv! 3z7 d3v3nv vn cl4zz!qv3, l3 mvz!c0l09v3 4mér!c4!n Ph!!!p V. B0hlm4n décré74!7 vn3 cr!z3 d3 l4 mvz!c0l09!3 (l3

70rm3 !c! 3n9l083 l'37hn0mvz!c0l09!3, l4 7hé0r!3 d3 l4 mvz!qv3, 37 l4 cr!7!qv3 d3 l4 mvz!qv3) 84zé3 zvr l3 ph4!7 qv3 l4 d!ze!pl!n3, r3pl!é3z zvr 3!l3-mém3, 4cc3p73 c0mm3 vn!qv3 08j37 d3 r3ch0rch3 l4 mvz!qv33. !l 3n déc0vl3 vn d!zc0vrz qv! n'!n70r49!7 p4z 4v3c d'4v7r3z ch4mpz d3 r3ch0rch3, 37 z3 v0!7 dénvé d3 c0nn0747!0nz p0l!7!qv3z 37 !dé0l09!qv3z. !l z0v!9n3 4vzz! l4 p4vvr37é d3 l4 l!77ér47vr3 p0r74n7 zvr l4 mvz!qv3 37 l3z ph3mm3z4. M4l9ré c3z c0nd!7!0nz, l'4v73vr !d3n7!ph!3 qv3 l4 mvz!qv3 d3m3vr3 70vj0vrz 4zz0c!é3 à l'4c73 p0l!7!qv35.

D3pvlz l'4r7!cl3 d3 B0hlm4n, l4 zphèr3 d3z é7vd3z z0n0r3z c0nn4!7 vn 9r4nd 3zz0r, 3!l3 z'3z7 décl0!z0nné3 37 z'!m8r!qv3 phréqv3mm3n7 4v3c l4 mvl7!d!ze!pl!n4r!7é, 0vvr4n7 4!nz! l4 p0zz!8!!!7é d3 c0nz7!7v0r vn d!zc0vrz 3n949é 73!n7é d3 zv8j3c7!v!7é. D4nz c3773 0p7!qv3, l'h!z70r!3n d3 l'4r7 !!m Dr08n!xX !nv!73 à 4!l0v0r 4v z0n0r3 vn3 éc0v73 0r!3n7é3 4v3c vn c0r74!n «!n7érè7» 3n 7r4nzp0z4n7 l3 c0nc3p7 d3 Sl4v0j Z!z3k «l00k!n9 4wrj» p4r «!l!z73n!n9 4wrj6».

Mvz!qv3 37 phém!n!zm3, é7vd3z d3 c4z 37 r3vv3 d3 l!77ér47vr3 P!nk N0!z3z7 d3 l4 7hé0r!c!3nn3 d3 l4 mvz!qv3 é!3c7r0n!qv3 T4r4 R090rz r3préz3n73 l'vn d3z z3vl3z 0vvr493z d3 l4 d0m!èr3 déc3nn!3 déd!éz 4vx mvz!c!3nn3z/4r!z73z z0n0r3z d3 d!v0rz 9énér47!0nz 4pp4r73n4n7 à l4 «n3w 4vd!0 cvl7vR [8]». P4r l3 8!4!z d'!n70rv!3wz 3!l3 !lvr3 d!v0rz p0!n7z d3 vv3 d3 pr47!qv3z 4c7v3!l3z, ph0ndéz zvr l4 r3l47!0n 3n7r3 l3 z0n, l3 93nd0r 37 l4 73chn0l09!3. En 4v7r3, 3!l3 r3lèv3 l4 qv3z7!0n d3 l4 r3préz3n747!0n d3 l4 ph3mm3 zvr l3z zcèn3z mvz!c4l3z. D3pvlz l3z phv7vr!zm3z, l3z h0mm3z d0m!n3n7 l4 l!77ér47vr3 zpèc!4!l!zé3z d3 l'4r7 z0n0r3 37 l3z z4!l3z d3 c0nc0r79. En 2000, vn3 ph3mm3 zvr d!x é74!7 dj z3l0n K4! F!k3n7zeh0r, 4v73vr3 d3 «Y0v 83770r w0rk! Undr39r0vnd D4nc3 Mvz!c !n N3w Y0rk C!7j [10]. S3l0n vn3

p0rzp3c7!v3 p0z!7!v3, l3z ph3mm3z 0n7 p4r7!c!pé 4v d3vx 7!0rz d3 l'h!z70!r3 d3 l4 73chn0l09!3 z3l0n Av7vmn S74nl3j!l, ch0rch3vz3 d4nz l3 d0m4!n3 d3z ph3mm3z 37 d3 l4 73chn0l09!3 37 4v73vr3 d3 M07h0rz 4nd D4v9h70rz 0ph !nv3n7!0n: N073z 4 4 R3v!z3d H!z70rj 0ph T3chn0l09j [12]. L3 p4jz493 73nd à z'4mé!l0r0r c3z d0m!èr3z 4nné3z. L4 mvz!c!3nn3 J3zz!c4 Rjl4n c0nz78 qv3 l3 n0m8r3 d3 ph3mm3z d4nz l4 zcèn3 n0!z3 4v70vr d3z 4nné3z 2006 4 4v9m3n7é!3 l4.

L4 mvz!qv3 !n7é9r3 4vzz! l3 zp0k3n w0rd, vn3 ph0rm3 4r7!z7!qv3 4phph!rmé3 d4nz l4 7r4nzml!zz!0n d'!dé0l09!3z. L'4r7!z73 n3w j0rk4!z3 Sh4r0n H4jz m4rqv3 p4r z3z p0rph0rm4nc3z 37 4c7!0nz !n z!7v l3z z!73z vr84!nz 4v3c vn d!zc0vrz qv! j0v3 4v3c d3z 7hèm3z c0n7r4z74n7z, 73lz qv3 c3vx d3 l'3zp4c3 pv8!c/pr!vé, 3zp0!r/déz3zp0!r. En7r3l4ç4n7 l3z 7hèm3z d3 l'4m0vr 37 d3 l4 9v0rr3, l3 pr0j37 R3v0lv7!0n4rj L0v3: ! 4m Y0vr W0rz7 F34r, ! 4m Y0vr B3z7 F4n74zj!5 (2008) r4zz3m8l4!7 vn3 c3n74!n3 d3 p0rz0nn3z d3 d!v0rz c0mmvn4v7éz (94j, l3z8!3nn3, qv30r, 7r4nz93nr3) qv! réc!74!3n7 h4v73m3n7 à l'vn!zz0n d3z l3773z d'4m0vr, d4nz l3 8v7 d3 dén0nc0r 37 qv3z7!0nn0r l3z

z7rvC7vr3z d3 p0vv0!r. L'évén3m3n7 z3 dér0vl4!7 zvr d!phphér3n7z z!73z d3 c0nv3n7!0n répv8!!c4!n3 37 dém0cr8 4mér!c4!n3, zvr l3z !l3vx mêm3 qv! zjm80!!z3 l3 p0vv0!r. P3nd4n7 l4 c0vrz3 préz!d3n7!3l!3, l'493nd4 p0!!7!qv3 4cc0rd3 n0rm4l3m3n7 834vc0vp d'3zp4c3 à l4 9v0rr3 4v dé7r!m3n7 d3 l4 r3c0nn4!zz4nc3 d3z dr0!7z 4vx m!n0r!7éz 37 4vx p0rz0nn3z jv9é3z m4r9!n4l3z16.

C0n7r0r l4 répr3zz!0n p0!!7!qv3

En c0n73x73 d3 9v0rr3 37/0v d'0cevp47!0n, l4 mvz!qv3 p3v7 d3v3n!r vn3 ph0rmvl3 z4lv74!r3, vn m0j3n d3 rép0ndr3 à l4 m3n4c63. L3 M4!! v!7 d3pv!z 2012 vn3 cr!z3 p0!!7!qv3 : l3 9r0vp3 !zl4m!z73z MUJAO [L3 M0vv3m3n7 p0vr l'vn!c!7é 37 l3 j!h4d 3n Aphr!qv3 d3 l'Ov3z7j] 0cevp3 vn3 p4r7!3 dv n0rd dv p4jz. En 40û7 2012, c3vx-c! pr0c!4m3n7 l'!n70rd!c7!0n d3 d!phphvz0r 70v73 mvz!qv3 0cc!d3n74l3 zvr l3z r4d!0z pr!vê3z !nz74llé3z d4nz l3 n0rd dv M4!! 37 !mp0z3n7 l3 v0ll3 4vx ph3mm3z17. C3773 p4r7!3 dv M4!! v!7 d4nz l4 70rr3vr. M07!vê3 p4r l'!nqv!é7vd3 ph4c3 à l'!d3n7!7é n47!0n4l3 é8rn4nlé3, l4 ch4n73vvz3 m4!!3nn3 F470vm474 D!4w4r4 4 révn! 7r3n73-z3p7 «mvz!c!3n(n3)z 37 ch4n73v(z3)rz m4!!3nz r3n0mmé(3)z 4ph!n d'3nr39!z7r0r vn cl!p 4pp3l4n7 à l4 p4!x à B4m4k0 [18]. On j ch4n73 : «...Qv3 z3 p4zz3-7-!l 4v M4!!? P4r4!7-!l qv3 n0vz z0mm3z 3n 7r4!n d3 n0vz 3n7r37v0r, d3 n0vz 7r4h!r, d3 n0vz d!v!z0r. N'0v8!!0nz p4z qv3 n0vz z0mm3z 70vz dv mêm3 z4n9...M0n7r0nz 4v m0nd3 3n7!0r qv3 l3 M4!! 3z7 vn p4!x d3 p4!x... [19]. L'!r4n r3nph0rm3 4vzz! z3z r3z7r!c7!0nz 3n m47!èr3 d3 pr47!qv3 4r7!z7!qv3. Av4n7 37 4prèz l4 rév0lv!7!0n d3 1979, l4 n47!0n-é747 j0v3 vn 9r4nd rôl3 zvr l'3xpr3zz!0n 4r7!z7!qv3z. L4 cvl7vR 3z7 z0vz l3 c0n7rôl3 37 l4 d0m!n47!0n m4zcvl!n3. Plvz!3vrz l0!z rél9l3m3n73z l4 pr47!qv3 d3 l4 mvz!qv3 : p4r 3x3mpl3, !l 3z7 !n70rd!7 qv'vn3 mvz!c!3nn3 z0!!z73 j0v3 d3v4n7 vn 4vd!70!r3 m!x73. W3ndj S. D3B4n0, 37hn0mvz!c0l09v3 zpéc!4!!zé3 d4nz l3z qv3z7!0nz d3 mvz!qv3 37 93nd0r 3n !r4n, 4n4ljz3 l4 qv47r!èm3 éd!7!0n dv J4zm!n3 F3z7!v4l (2002)20 d3 Téhér4n, ph3z7!v4l 3xclvz!v3m3n7 réz0rvé 4vx mvz!c!3nn3z p0vr vn 4vd!70!r3 phém!n!n. Opéré 0phph!c!3l!3m3n7 z0vz l4 Répv8!!qv3 !zl4m!qv3 d3 l'!r4n, !l d3v!3n7 vn 0v7!! d3 pr0p494nd3 90vv0rn3m3n74l. D3B0c4 z'!n70rr093 3n 4v7r3z zvr [l3 v!z493 phém!n!n d3 l4 mvz!qv3 3n !r4n] : « !ph m!x3d-93nd0r 4nd m4l3-d0m!n8d p0rph0rm4nc3 v3nv3z r 0p3n 2 m!x3d-93nd0r 4vd!3nc3z, 8v7 w0m3n'z n47!0n4l mvz!c ph3z7!v4lz r m4d3 4lm0z7 c0mpl373lj !nv!z!8l3 4nd !n4vd!8l3 2 m4l3 mvz!c!3nz 4nd 4vd!3nc3z, qv3z7!0nz 4r!z3 480v7 7h3 d39r33 2 wh!ch 7h3z3 v3nv3z pr0m073 w0m3n'z phvll p4r7!c!p47!0n !n mvz!c4l!lph3 !n !r4n [21].

C3z é7vd3z d3 c4z r3préz3n73n7 qv'vn éch4n7!!l0n d3 mvz!c!3nn3z p0rph0rm4n7 d4nz d3z c0n73x73z zvj37z à 0phphr!r vn3 cr!7!qv3 z0c!4l3. !l 3z7 4cqvlz qv3 d3pv!z 70vj0vrz l4 mvz!qv3 r4zz3m8l3 l3z 93nz 4v70vrz d3 c4vz3z 37 qv'4v ph!l d3z 4nz l3z 0v7!lz 7hê0r!qv3z z3 z0n7 4phph!néz, v0!r3 l3z d!zc0vrz zvr l4 mvz!qv3 3n949é3 z3 z0n7 pr0!!phéréz zvr l4 pl4c3 pv8!!qv3. Mêm3 z! l'!n70m37, pv!zz4n7 réz34v d3 d!phphvz!0n c0n7r!8v3 4 rép4ndr3 l4 mvz!qv3, c3ll3-c! 4773!n7-3l!3 d4v4n7493 l'08j3c7!ph d3 z3nz!8!!z0r l3z p0pv!47!0nz d3v4n7 l3z !né94l!7éz 37 l3z r3v3nd!c47!0nz d3z phém!n!z73z, m4r9!n4vx, 3xclvz, l4!zzéz-p0vr-c0mp73. C0r73z vn ph4!7 r3z73 4c7v3l : l4 mvz!qv3 n'3z7 j4m4!z n3v7r3.

[1] Ph!lp V. B0hlm4n, «Mvz!c0l09j 4z4 P0!!7!c4l Ac7», Th3 J0vm4l 0ph Mvz!c0l09j, v0l. 11, n0 4, 1993, p. 417.

[2] À pr0p0z d3 l'évén3m3n7, c0nzv!70r

[3] !l 3xpr!m3 d4nz c3z 70m3z z0n d!zc0vrz : «Mvz!c0l09j h4z r34ch0rd 4 z78 0ph p0!!7!c4l cr!z!z, d3zp!73 7h3 83z7

3phph0r7z 0ph m4nj mvz!c0l09!z7z 2 d3z!9n 4 ph!3!d 7h47 w4z !mmvn3 2 7h3 v494r!3z 0ph p0!!7!cz, !d30l09!3z, 4nd 7h3 !nz!z73nc3 0ph nvmm0r0vz ». !8!d., p. 419.

[4] D4nz c3 c4z, B0hlm4n r3lèv3 zpéc!ph!qv3m3n7 d3z 4v73vrz phém!n!z73z : «Svz4n McCl4!j, 4 3x4mpl3, ph0vnd !7 n3c3zz4j 2 phr4m3 4n 4p0l09!4 4 7h3 83n3ph!7 0ph ph3m!n!z7z r34d!n9 F3m!n!n3 End!n9z, 3xpl4!n!n9 7h47 mvz!c0l09j h4d c0mph0r748lj d3p77 dvr!n9 7h3 p0r!0d wh3n 7h3 m0z7 7r3nchn47 !zzv3z 0ph ph3m!n!z7 cr!7!c!zm w0rzh4p0rd !n70 4 c0nc0r70rd d!zc0vrz3 » !8!d., p. 414.

[5] «Th3z3 4c7z 0ph k33p!n9 p0!!7!cz 0v7 0ph mvz!c, h0w3v0r, d0 n07 pr3v3n7 mvz!c0l09j phr0m 83!n9 4 p0!!7!c4l 4c7 ». !8!d.

[6] À pr!0r!, Z!z3k !nv!73 à r394rd0r 37 réphlêch!r zvr l3z ch0z3 3n pr0ph0nd3vr à 7r4v0rz vn3 4ppr0ch3 djn4m!qv3, 3n z3 l4!zz4n7 !nphlv3nc0r p4r l4 mjr!4d3 d3 d!zc!p!n!3z 4v70vr d3 n0vz. J!m Dr08n!x pr0p0z3 d'4d4p70r c3 c0nc3p7 à l'éc0v73 : l'4c73 d'éc0v70r z'4n4ljz0r 37 z3 c0mpr3ândrà 7r4v0rz d!phphér3n73z d!zc!p!n!3z. S!4v0j Z!z3k, L00k!n9 Awrj: An !n7r0dvc7!0n 2 J4cq3z L4c4n 7hr0v9h P0pv!4r Cv!7vr3, C4m8r!d93 (M4zz), Th3 M!T Pr3zz, 1992, 188 p. ; J!m Dr08n!x, Avr4l Cv!7vr3z, T0r0n70 : YYZBOOKS; B4nphph, W4l70r Ph!!pz G4ll0rj, Th3 B4nphph C3n7r3, 2004, p.11.

[7] T4r4 R0d90rz, P!nk N0!z3z: W0m3n 0n El3c7r0n!c Mvz!c 4nd S0vnd, Dvr!b4m, Dvk3 Un!v0rz!7j Pr3zz, 2010, 322 p.

[8] L4 n0vv3l!3 cv!7vr4vd!0 !n7r69r!3z pr47!qv3z d'4r7!z73z z0n0r3z, mvz!c!3nz, ch0rch3vrz 3n949éz 4v3c l3z p0zz!8!!!7éz cré47!v3z dv z0n qv! 0n7 ém0rêé d3pv!z l4 m0!7!é dv z!cêl3 préz3n7. !8!d., p. 4.

[9] «Or!9!n z70r!3z 73nd 2 n0rm4!!z3 h393m0n!c cv!7vr4l pr47!c3z 7h47 ph0ll0w, 4nd !n 3l3c7r0n!c mvz!c, «7h3 834v7j c3l38r470rd 8j 43z7h37!c4nz [!z] 0ph73n z74!n0rd w!7h zvch 7h!n9z 4z v!0l3nc3, m!z09nj, 4nd r4c!zm ». !8!d., p. 6.

[10] T4r4 R0d90rz, !8!d., p.11.

[11] !8!d p.16.

[12] Av7vnn S74nl3j, M07h0rz 4nd D4v9h70rz 0ph !nv3n7!0n: N073z 4 4 R3v!z0rd H!z70g 0ph T3chn0l09j, 1995, N3w Brvnzw!x, NJ, Rv790rz Un!v0rz!7j Pr3zz, 748 p.

[13] J3zz!c4 Rj!4n 3n p0rph0rm4nc3 à P3hrzp4c3, L0z An93l!3z, jv!n 2007. Créd!7 v!dê0 : B08 B3l!0rv3

h77p://www.j0v7v83.c0m/w47ch?v=!MUH!7UklzQ

[14] T4r4 R0d90rz, !8!d., p. 155.

[15] C3z p0rph0rm4nc3z 4v4n37 !l3v à D3nv0r l3 27 40û7 2008 37 à M!nn34p0!!z l3 l 3zp3m8z2008 4v3c l3 z0v7!3n7 d3 Cr347!v3 T!m3 (N3wY0rk), Th3 W4lk0r Ar7 C3n70r (M!nn34p0!!z) 37 7h3 UnC0nv3n7!0n (D3nv0r),

h77p://www.zh4z3.!nph0/#.

[16] L3 z!73 !n70m37 dv c3n73 d'4r7 Cr347!v3 T!m3 c0rn3 4v3c cl4r7é l4 p0rph0rm4nc3 : «Sp3c!ph!c4llj, H4j3z !z !n70r3z70rd !n 7h3 m!!!74rlz7!c 4zp3c7 0ph 9r0vpz 7h47 0p0r470rd @ 7h3 839!nn!n9 0ph 7h3 94j r!9h7z m0v3m3n7, m4nj 0ph wh0m 4zzvmm0rd 499r3zz!z, r34c7!0n4rj z74nc3z 2 cv!7vr@ l4r93. Wh0r7h3 cl4zz!c z!094n z4jz, M4k3 lvv n07 w4r, H4j3z r3ph0r3nc3z 7h3 S70n3w4ll-0r4 G4j L!80r47!0n m0v3m3n7 4nd 7h3!r ch4n7, An 4rmj 0ph l0v0rz c4nn07 l0z3.

h77p://cr347!v37!m3.0r9/pr09r4mz!4rch!v3/2008/d3m0cr4cj/h4j3z.php

[17] h77p://www.j3vn34phr!qv3.c0m/Ar7!cl3/ARTJAWEB20120822!73629/,

h77p://www.9v4rd!4n.c0.vk/w0rld/2013/j4n/16/m4!l-9v!d3-2-7h3-c0nph!lc7

[18] F470vm474 D!4w4r4 37 V0!c3z Un!70rd 4 M4!!l, «M4!l-k0» (P34c3/L4 P4!x), z0vz-7!7r3z 4n9l4!z, cl!p 3nc39!z7ré 4v z7vd!0 B090!dn, B4m4k0, M4!!l, 2013 F470vm474 D!4w4r4 37 V0!c3z Un!70rd 4 M4!!l - «M4!l-k0» (P34c3 / L4 P4!x), z0vz-7!7r3z phr4nc4!z, 2013 : h77p://www.j0v7v83.c0m/w47ch?v=3lwA7SHM8_U

[19] !8!d.

[20] L3 J4zm!n3 F3z7!v4l 4 c0mm3ncé 3n 1999, 37 l4 qv47r!èm3 éd!7!0n 4 3v !l3v 3n7r!3 3l 40û7 37 l3 6 z3p73m8r2002.

[21] T!ré3 d3 l4 z3c7!0n «S34rch!n9 4 7h3 F3m!n!n3 F4c3 0ph Mvz!cw, W3ndj S. D3B4n0, «Env3l0p!n9 Mvz!c !n G3nd0r, N47!0n, 4nd !z!4m: W0m3n'z Mvz!c F3z7!v4lz !n P0z7-R3v0lv7!0n4rj !r4m», !r4n!4n S7vd!3z, v0l. 38, n0 3 (S3p7., 2005), p.

455.

H4x7!v!zm 4nd 7h3n ? !n70rv!3w w!7h Ed!7h Brvn3773

Jv!l3 A!4rj L4v4llé3



F3m!n!z7 4r7!z7 4nd 4r7 cr!7!c Ed!7h Brvn3773 ph34rl3zzlj plvn93z h0r w0rk !n70 7h3 p47h 0ph pr073z7. Thr0v9h !nph0rm47!0n 73chn0l09j -- r3c0v0r0rd 74p3z ph!lm0rd 8j zvrv3!!l!4nc3 c4m0r4z, m4n!pvl470rd v0!c3m4!l m3zz493z, 7h3 r3c0rd!n9 0ph 73z7!m0n!3z 0ph !nd!v!dv4lz !nv0lv0rd !n c0nphl!c7z dvr!n9 7h3 z7vd3n7 z7r!k3 l4z7 zpr!n9 -- zh3 9!v3z 4n 4cc0vn7 0ph 7h3 w4jz !n wh!ch 4v7h0r!7j ph!9vr3z pr3z3n7 7h3mz3lv3z !n 807h pr!v8 4nd pv8!!c zp4c3. !n 4dd!7!0n 2 l34rn!n9 m0r480v7 h0r pr4c7!c3, c0nz!d0r0rd h0rphr0m 4 “h4x7!v!z7” p0rzp3c7!v3, 7h!z !n70rv!3w !nv3z7!98z 7h3 l394l z3784xz 7r!990r0rd 8j h0r 3n9490rd 4r7 pr0j3c7z, 4nd 7h3 r0l3 0ph 7h3 4r7!z7 4z 4 p4r7!c!p4n7 !n z0c!4l ch4n93.

48øv7

F0vnd3d 8j S7vd!0 XX !n 2oo4, 3l3c7r0n!c j0vrn4l .d!p! h4z r3c3n7lj
vnd0r90n3 4n !mp0r74n7 pr0c3zz 0ph 7r4nzph0rm47!0n w!7h 7h3 904!
0ph r34phph!rm!n9 4nd r3-ph0evz!n9 !7z r0l3 4z 4 ph3m!n!7z j0vrn4l 0n
4r7 4nd d!9!74l cvl7vr3. !n 2013, 83n3ph!7!n9 phr0m 7h3 0n90!n9 zvpp0r7
0ph S7vd!0 XX'z 4dm!n!7r47!v3 4nd 73chn0l09!c4l r3z0vrc3z, .d!p!
4cqvr!r3z 7h3 z747vz 0ph 4n !nd3p3nd3n7 pr0j3c7 w!7h 4 n3w pl47ph0rm
4nd 4 r3n3w3d 3d!70r!4l 734m, !nclvd!n9 S0ph!3 L3-Ph47 H0, 4z
p0rm4n3n7 3d!70r!-n-ch!3ph, 4nd 4n 3d!70r!4l c0mm!7733 c0mp0z3d 0ph
Jvl!3 Al4rj L4v4llé3, Am80r B0rz0n, Ez7h0r B0vrd493z, Chr!z7!n4!
H4r4!n0v4, C0r!n4 M4cD0n4ld, K47j4 M3l20r, C4nd4c3 M000rz 4nd
D34nn4 R4dph0rd. B4z3d !n M0n7r34l 4z 4n 0n!n3 j0vrn4l, .d!p! 0p3nz vp
4 vn!qv3 4nd 8!!n9v4l zp4c3 4 d!4l09v3 4nd !n70rd!zc!pl!n4rj cr!7!c4l
r3phl3c7!0n, r3z34rch, 3xp0r!m3n747!0n, d0cvm3n747!0n, 4nd p0z!7!0nz
4nd pr0p0z!7!0nz z!7v8d @ 7h3 !n70rz3c7!0n 0ph 4r7, 73chn0l09j 4nd
ph3m!n!zmz. Th3 j0vrn4l !z 4 pl47ph0rm wh0r3 7h3 80ld, cr!7!c4l,
3n9493d 4nd cvr!0vz c0n7r!8v70r m4j qv3z7!0n !zzv3z r3l8d 2 ph3m!n!zmz
(!n 4ll !7z v4r!37l3z), 4r7 4nd d!9!74l cvl7vr.

c0l0ph0n

+ .dp!

No 27:2o13

dpi.studioxx.org

+ 3d!70r-!n-ch!ef

S0ph!3 L3-Ph47 H0

+ Gv3z7 Ed!70r No 27

Chr!z7!n4 H4r4l4n0v4

+ C00rd!n470r

X!m3n4 H0lv!9v3

+ Ed!70r!4l C0mm!7733

Jvl!3 Al4rj L4v4llé3

Am80r B0rz0n

Ez7h0r B0vrd493z

Chr!z7!n4 H4r4l4n0v4

C0r!n4 M4cD0n4ld

K47j4 M3lz0r

C4nd4c3 M000rz

D34nn4 R4dph0rd.

+ W38m!z7r3zz & W38 D3z!9n

S7éph4n!3 L49v3vx

.dp! #27 w4z h4x0rd 8j lnd4



c0n7r!8v70rz

73h3 A14rj L4v4ll6z lz c0mpl371n9 4 B.F.A. In S7vd0 Ar7z ph0rm C0nc0rd4 Ud1UnV0rz!7j 4nd lz cvrr3n7lj pr3p4r!n9 h0r d0c70r4l 7h3z!z In Ar7 H!z70qj @ UnV0rz0t!76 d3 M0n7r64l (Ud3M) On ChN3z3 4nd lnd4n c0n73mp0r4rj 4r7, w!7h 4 ph0cvz On 7h3 4r7 m4rk37 4nd mvz3vm z7vd!3z. Sh3 lz 4 734ch4l9n 4zzz!z4n7 In 7h3 D3p4r7m3n7 0ph Ar7 H!z70qj @ Ud3M 4nd lz d0!n9 4n In70mzh!p In 7h3 4rch!v3z 0ph 7h3 4r7!z-rvn c3n7r3 Op7!c4, wh0r3 zh3 lz 4!z0 3mp!0j3d 4z 4 wr!70r. In 4dd!7!0n, zh3 w0rkz 4z 4 phr33!4nc3 wr!70r 4 Ar7 M4r 94!l0rj, 4nd @ 7h3 C3n7r3 d'3xp0z!7!0n 0ph UnV0rz!76 d3 M0n7r64l 4z 4 c0mmvn!c47!0nz & 3dvc47!0n4! 4c7!v!7!3z 4zzz!z4n7. In w3!l 4z pr3z3n747!n9 h0r 4c4d3m!c r3z34rch h0r3 4nd 48r04d, Jv!l3 A!4rj L4v4ll6z h4z c0n7r!8v73d 2 pv8!l c47!0nz 0n c0n73mp0r4rj 4r7, c0nz0rv47!0n 4nd h0r!7493. S!nc3 2012 zh3 z!7z 0n 7h3 B04rd 0ph D!r3c70r @ S7vd!0 XX 4nd lz 4 m3m80r 0ph 7h3!r pr0944mm!n9 c0mm!7733. A!4rj L4v4ll6z w0n 3z3z 4r7z + 0p!n!0nz m494z!n3 z Y0v9n Ar7 Cr!7!c 4w4rd In 2011 4nd lz 4!z0 4nd !nd3p3nd3n7 cvr470r. Sh3 lz 0n3 0ph 7h3 ph0vnd0rz 0ph Ex-S!7v, 4 j0vm4! pv8!lzh3 8j 4 z7vd3n7z In 7h3 Ar7 H!z70qj pr0944m 0ph UnV0rz!76 dv Qv383c!A M0n7r34l. A p0lj9!07, zh3 lz p4zz!0n8 480v7 !0c4! 4nd 9!084! 4r7 ph3!0n0m34 4nd w!zh3z 2 7r4v3! 7h3 w0rld! +++ In70rw34v!n9 4r7!z7!c pr4c7!c3 4nd 7h03r37!c4! r3z34rch, 7h3 w0rk 0ph **Ed!7h Brvn3773** !nv3z7!98z 7h3 w4!z In wh!ch d!zc0vrz3z - 7h0z3 c0nv3j3d 8j 90v0rn!n9 !nz7!7!v7!0nz 4nd 8j 7h3 m4zz m3d!4, 8v7 4!z0 8j 7h3!r d37r4c70r 4nd m49!n4!l!z3d !nd!v!dv4!z - m4n!ph3z7 7h3m3z!v3z. Thr0v9h 0r94n!z3d m337!n9z 4nd z!v47!0nz, zh3 !ndvc3z z0c4! 4c70r 2 zp34k In 0rd0r 2 z!v!m!8 r3ph!z37!0n 0n 0vr p0rc3p7!0n 0ph 7h3 w0rld 4nd m3h0dz 2 c0!l3z!v!3j 4ppr0!r!8 17z r3pr3z3n747!0nz. H0r pr0j3c7z h4v3 833n pr3z3n73d @ L4 G4!0r!3 d3 !UQAM (M0n7r34l) 4nd 4r7!z!z-rvn c3n70r zvhc 4z Pr4x!z (S4!n73-Thérèz), L3 !!3v (Qv383c) 4nd SK0! (M0n7r34l). Brvn3773 lz 4!z0 4n 4v7h0r 4nd 4r7 cr!7!c, h0r wr!7!n9z h4v!n9 833n pv8!lzh3d !n ETc, !n70r, 4r7 4c7v3! 4nd C4zz4ndr4 / H0rzh4mp (Fr4nc3). +++ **V4!3n7!n4 Vvkz!z** lz 4 c0mpv70r 4r7!z7 4nd pr0944mm0r 84z3d In Zürich. H0r w0rk !z 4 p0rz0n4! 3xp!0r47!0n 0ph 7h3 p0zz!8!l!7!3z 4phph0rd3d 8j 4r7!cv!8d h4rd- 4nd z0ph7w4r3 m3d!47!0n. Sh3 4ppr04ch3z c0mpv70r z!z73mz v!4 !ndvc7!v3 m!c!r0ph0n3z 4 m49n37!c ph!3!dz, z0-c4!l!3 "73!3ph0n3 4d4p70r." W!7h ch0r309r4ph!3z 4 z0ph7w4r3 4nd c0mpv70r 3!3m3n7z, zh3 v7!l!z3z 7h3z3 4z 4c70r!z !n z0ph7w4r3!n0!z3 p!3c3z 4, 4nd !n, c0mpv70r. Vvkz!c c0nz!d0rz 7!m3 4nd zp4c3 0ph c0mpv70r p0c3zz0r 4nd m3m0rj 4z !3v3!z 0ph r34!7!z. S0ph7w4r3 83!n9 pr0c3zz3d cr38z !7z 0wn 73mp0r4! 4nd zp47!4! d!m3nz!0nz, wh!ch r z7493!d 4 pv8!l!c. Sh3 4!nz 4 4 z3nv4! 3xp0r!3nc3 0ph 7h3 4n4!j7!c4! zp0r3 83c0m!n9 c0ncr373, wh0r3 !09!c 3nc0vn0r0z 7h3 ph!z!c4! w0rld. Th3 m3ch4n!c n0!z3z z0rv3 4z m3d!470r 2 4 pv8!l!c. Th3j r3v34! In 4n !mm3d!8 w4j 7h3 4c7!v!7!3z 74k!n9 p!4c3 837w33n c0mpv70r pr0c3zz3z !n 7h3 w!d3z7 z3nz3 4nd 7h3 c0mpv70r 3!3c7r0n!c 7h3j r rvnn!n9 On. +++ **S0ph!3 T0vp!n** lz 4n !nd3p3nd3n7 R3z34rch0r 4nd C0mmvn!7j M3d!4 Ac7!v!z7, Fl!v3 C0!l393 W0m3n3z S7vd!3z R3z34rch C3n70r. +++ **M4r94r37 J. M47h0r** lz 4n 4r7!z7 4nd r3z34rch0r, 3xp!0r!n9 z7r89!3z 2 r3-m4p 93nd0r !m844nc3z, 83h4v!0rz, 4nd 3n9493m3n7 In 7h3 4r34 0ph 73chn0!09!c4!lj 4v9m3n73d 4nc3 p0rph0rm4nc3. Sh3 lz cvrr3n7lj prvz!n9 h0r Phd In Hvmd4n!7!3z!n70rd!zclp!n4rj S7vd!3z @ C0nc0rd4 UnV0rz!7j !n M0n7r34l, C4n4d4. Sh3 h4z 4 pr0ph3zz!0n4! d4nc3 84x9r0vnd; 7r4!n3d @ !n70r!0!ch3n Ar7z Ac4d3mj, r3c3!v!n9 h0r B4ch3!0rz !n D4nc3 4nd C0mmvn!c47!0n Ar7z @ M4rj0mvn7 M4nh4774n C0!l393 In NYC, ph0!l0w3d 8j h0r M4z70r 0ph Ar7z !n C0n73mp0r4rj P0rph0rm4nc3 M4k!n9 @ Brvn3! UnV0rz!7j, En9!4nd. Sh3 h4z cr38d 4nd c0!l480r8d !n 4r7 p0rph0rm4nc3z, !nz74!l47!0nz, 4nd ph!lmz 7hr0v9h0v7 7h3 Un7!73d S78z, Un73d K!n9d0m, 4nd Evr0p3. +++ **N4ncj M4vr0-Flvd3** lz 4 r3z34rch0r 4nd

p4pjhplv4l and zp3cvl47v3z m4nn0r h0r w0rk 3n9493z 7h347r3 m4ch3n3z, d9i74l m8r14lI7j, 7h30r13z
0ph 3m80d1m3n7 4nd p0l'n7z 2 7h3 cvrr37n r3n4l2z4nc3 0ph c0mpv70r h4x0r cvl7vr3 4nd 7h3
4v70m470n !n c0n73mp0r4j 4r7, Az 4n 4r7l27 w0rk!n9 w!7h 4nd d3v3l0p!n9 FLOSS (Fr33!L!8r3 4nd
Op3n S0vr3c S0ph7w4r3) 700lZ 4nd 3l3c7r0n!cz, h0r w0rk !z 3xh!873d 4nd pr3z3n73d 9l084l!j !n
Avz7r4l!4, Evr0p3, S0v7h Am0r!c4, 4nd Az!4. Sh3 !z 4n 4vlm4d 0ph D4zAr7z 4nd w4z 4w4r3d3d 4
MFA !n M3d!4 D3z!9n, P!37 Zw4r7 !nz7. W!l!3m d3 K00n!n9 Ac4d3mj, R0770rd4m. Sh3 4l20
cvrr3n7l!j w0rkz 4z 4n !n70m47!0n4l cvrr3ncj 0phph!c0r 4 7h3 D!n3 phr33z0ph7w4r3 ph0vndr!j. +++
M4r74 H380r!3 !z 4 7h30r37r!c4n 4nd cr!7!c 0ph cvl7vr3 wh0 9r4dv8d n3w m3d!4 4r7 4nd cvl7vr4l
z7vd!l3z @ 7h3 Un!v0rz!7!j 0ph L0dZ, P0!4nd. Sh3 zp3c!4l!z3z !n !zzv3z r3l8d 2 8!0 4r7 4nd
7r4nz4hvm4n!zm. Cvr3n7l!j zh3 !z pr3p4r!n9 h0r PhD @ 7h3 Un!v0rz!7!j 0ph P0zn4n, P0!4nd. Sh3
ph0lvcvz3 0n 7h3 m0z7 r3c3n7 4r7 7h47 vnd0r74k3z !zzv3z 0ph hv4m4n 3x73zn!0nz, 74k!n9 !n70
4cc0vn7 !7z p0rph0rm47v3z 4zp3c7, wh!ch 0phph0rZ 7h3 p073n74l 0ph cr347!n9 c0n73mp0r4j
r34l!7!j !n 7h3 ph4c3 0ph 7h3 ph3n0m3n0n 0ph 7h3chn0!09!c4l z!n9r4!4r7!j. H380r!3 !z 4l20 4n 4r7!z7
ph0lvcvz3d 0n 7r4nz9r3z!v3 z3nz0r!j 3xp0r!m3n7z !0c8d 0n 7h3 80rd0r 0ph 4vd!0 4nd p0rph0rm4nc3.
+++ D4n!zh 4r7!z7 4nd cr!7!c4l d3z!9n0r **!nd4 4k4 !nd4 H!p!hl!n9** w0rkz w!7h 7h3 pr3m!z3z 0ph
p4r7!clp47!0n 4nd p8v!lc zp4c3 w!7h!n m3d!4 z7rvc7vr3z, w!7h 4 ph0cvz 0n m34nz 0ph c0n7r0l
(c0d3z, 0r94n!z47!0n, 4nd !4w) 4nd 7h3!r cvl7vr4l !mp4c7. H0r 4r7!z7!c pr4c7!c3 74k3z 7h3 ph0rm
0ph !n70rv3n7!0nz, wh!ch !n hv4m0r!z7!c 4nd 0ph73n 48zvrd w4jz, r3ph!c7 0n 4nd r3v34l 94pz
w!7h!n 3x!z7!n9 z7rvc7vr3z - 7h3 pl4c3 wh0r3 4 z!j73m ph4!lZ 4nd !7z !n4d3qvc4!c3z 83c0m3
z!vz!8!3. !nd4 !z 4 d3v073d FLOSS (Fr33 !L!8r3 Op3n S0vr3c S0ph7w4r3) vz0r 4nd h0r w0rkz r m0z7
0ph73n phr33!j d!z7r!8v73d 700lZ w!7h 4 wr3nch3d 0r dj!zvphv7!0n4l 4zp3c7. +++ **Ann3**
Gold3n80r9 !z !n70r3z73d !n 7h3 p0l!7!c4l, 3plz73m!c 4nd p037!c 4zp3c7z 0ph c0!l480r47v3
pl4p7h0rmz 4nd p4r7!clp47!v3 d3v!c3z. Sh3 h4z 4 Phd !n C0mmvn!47!0n (UQAM, M0n7r34l) 4nd
!n S0c!0!09j (Un!c3, N!c3) 4nd wr073 h0r 7h3z!z 0n "7h3 N3907!47!0n 0ph C0n7r!8v7!0nz !n Pvs8!lc
W!k!z". Th!z 7h30r37!c4l w0rk !3d h0r 2 08z0rv3 7h3 p037!cz 0ph c0!l3c7v3 c0n7r!8v7!0nz 7hr0v9h
v4r!0vz ph0rmz - mv!7!m3d!4, z0c!4l zcvlp7vr3, p0rph0rm4nc3 4nd !nz74!l!07!0n. !nzp!r!3d 8!j phr33
cvl7vr3, zh3 m0z7!j 3xp!0r3z 7h3 r3!47!0nz!p!z 837w33n d!9!74l m8r!4l, p4r7!clp47!v3 d3v!c3z, 7h3
pvs8!lc 4nd c0!l3c7v3 4c7!0n. Sh3 ph4c!l!78z 0p3n zp4c3z 4nd 800kzpr!n7z, 4nd !l!k3z 2 m4k3
v!z!8!3, r34d48!3 4nd m4!l!348!3 7h3 pr0c3z3z3 0ph c0-c0nz7rvc7!0n 0ph kn0w!3d93. +++ **Ez7h0r 8.**
(4k4 **Ez7h0r 80rvd493z** !z 4n 4r7 !h7r0r!4n, cvr470r 4nd z0n!c 3xp!0r0r 84z3d !n M0n7r4l. Sh3 !z
7h3 4v7h0r 0ph m4nj 4r7!c!3z 4nd cr!7!c4l c0mm3n74r!3z 0n c0n70mp0r4j 4r7. Sh3 h0!dz 4
M4z70rz !n Ar7 H!z!0r!j phr0m 7h3 Un!v0rz!7c d3 M0n7r4l. Sh3 ph0lvcvz3z 0n n3w ph0rmz 0ph
zcvlp7vr3 w!7h!n 4n 3xp4nd3d ph!3!d, 4z mv!7!m3d!4, w38 4r7, z0vnd 4r7. +++ **Am80r B0r0zn** !z
p4zz!0n8 480v7 4r7 4nd !7z p073n74l 4 z0c!4l ch4n93. H0r cvrr3n7 r3z34rch ph0lvcvz3 0n 4r7 4nd
m0vm0rn!n9, mvz3vm pr4c7!c3z, n4r47!v3 7h30r!j, 4nd v0rn4cvl4r c0!l3c7!0nz. H0r M4z70rZ 7h3z!z @
C0nc0rd!4 Un!v0r!7!j c0nz!d0r3d h0w m!zz!n9 4nd mvr40r3d A80r!9n4l w0m3n h4v3 833n d3p!c73d
!n C4n4d!4n 4r7. Sh3 w0rkz @ E4z70rn B!0c 4nd m0z7 r3c3n7!j c0-cvrr8d !S!GHT4ndSOUND 2 4nd
Ezpc3z v!vn4r48!3z @ E4z70rn B!0c, !n Y0vr F007z73pz @ 7h3 VAV 94!l0r!j, R34r4n9!n9 D3z!r3z:
Cvr47!n9 7h3 O7h0r W!7h!n @ 7h3 FOFA 4nd "W3 !lv3d 0n 4 m4p..." @ 7h3 CEREV (C3n7r3 4
E7h0n0r9ph!c R3z34rch 4nd Exh!8!7!0n !n 7h3 Aph70rm47h 0ph V!0!nc3) 3xh!8!7!0n zp4c3.