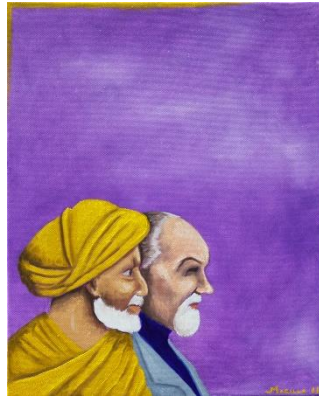


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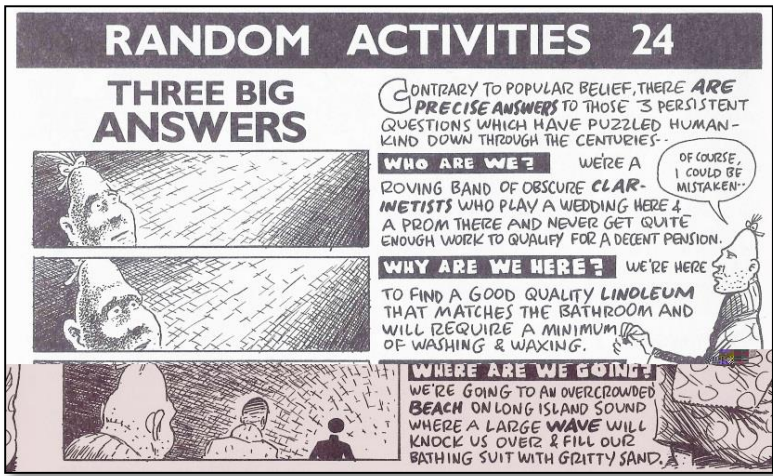
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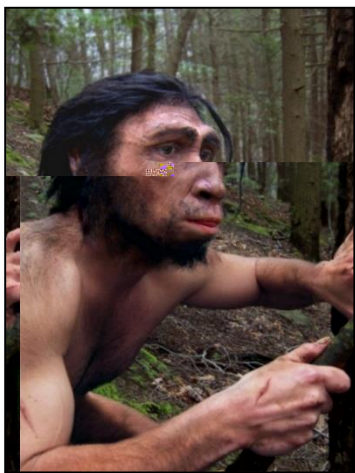
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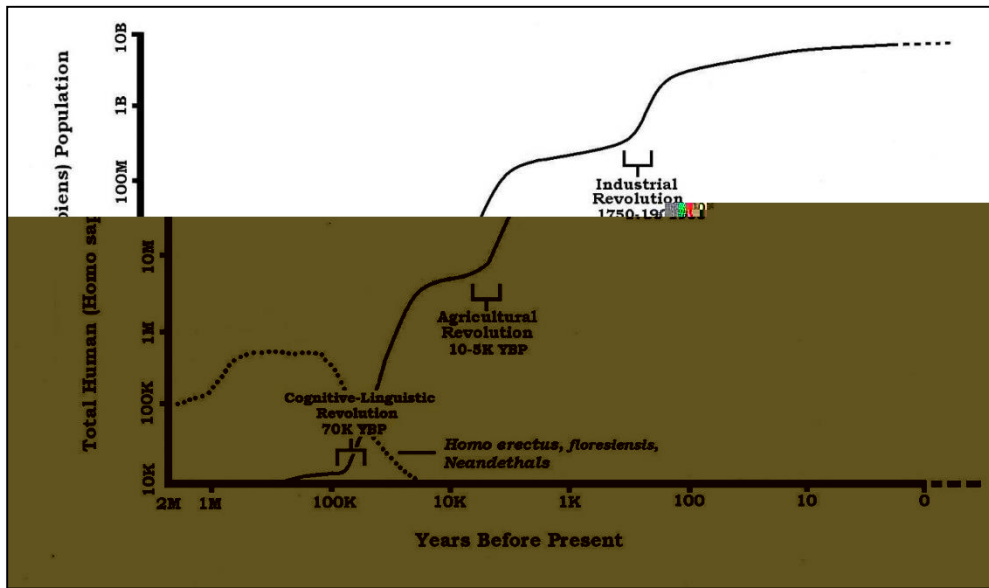


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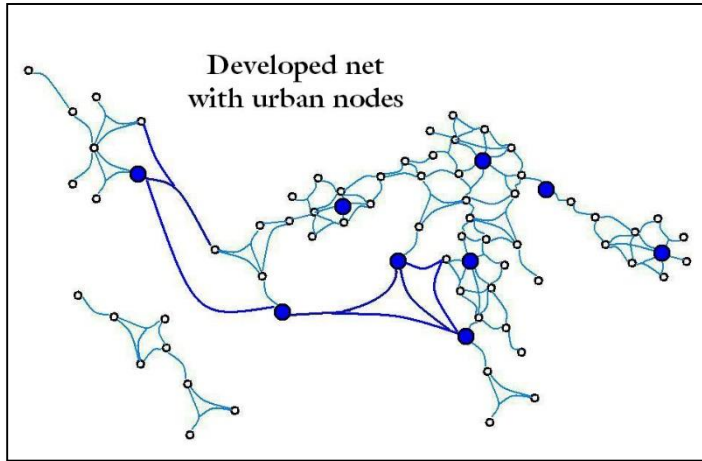
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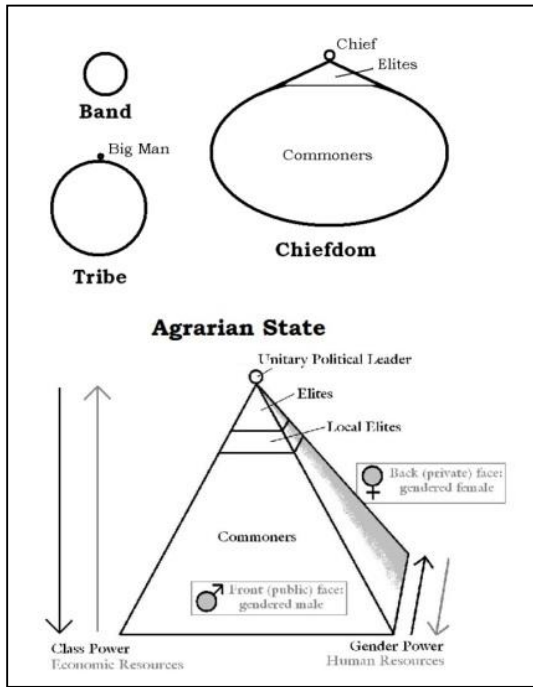
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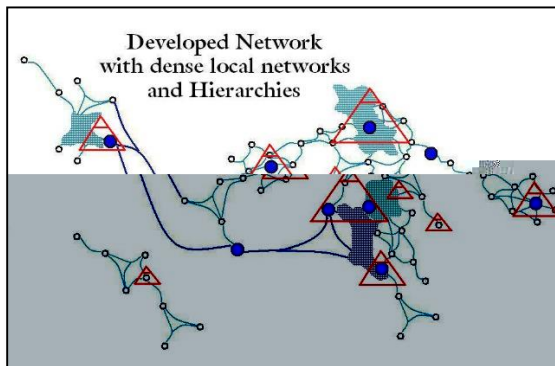
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" / 0((33 "1 3 3 2 - 6 %1, 2. %23 342, - 33 3 %6 , (- . 1" - 23 4, -
 ". , , 4- (321 3. - 2 (/ 3 (3/ 82" - 5(1. - , - 3"1 3 3 / . 3 - 3 %1,). 1 %"32(- 3
 1. 4/ 22 "(- ". - . , (" . 1 - (9 3. - - 224" 22 33(- (- . - / " (- 23 . %
 6 - 1(- "" 4, 4 3- / . 22 22(- 2 - . , 23" 3- / - 32 - - (, 21 3 13 - 1 8(- . -
 3 (1 // 1 - " (- 3 6(- 20 " , 5(2 5(2 1. 4/ 3 3 1(- 3 3(0 26 ("
 1. 4/ 3 3 1(- 3 " (%. , 2 - "(3 2 1. 2 33 " - 31. %23 3 2 0 81 ((. 42
 0 41 4"1 3" - , ((3 18 (32 1 2 - 0231 "31 /1 2 - 3 3. - . % (%1 - 3 5 2. % (11" (2



/. 6 1. %23 3 2 3 . 1 - (9 ". "35 "3. - 8 3 4 8, 22(5 - 4, 12. %/ ./ / 138
 3 1. 4 ". 1"(- 43, . 238 8". - 5(- "(- , - 8, - 8/ ./ 3 3 - 23 3 - 33, 33 1
 , . 1 3 - 3 (1(- (5 4 (5 2 - 241 3 3 2 3 3 5 . 1 - (9 3. - . % 4, - 2" (3 2 1 4 8
 3- 8 43(- 7. 1 8 2/1 %, %6 -"(- 31(5 15 8 2 3 " (, 3 8 - 18 5 18
 " 1 % 8, // 204 1, 31. % - . - 3 %" . %8 . 1

" %1 , , - 33 (1- 4- 33 "- " /34 13. % (2 (23 18. %8 6. 1 (23
 "1 35 3 - 2. - 36 - - . , 2 - "(5(9 3. - (23 - 2. - 36 - - . , (" 3(1 2 . 1
 " (%, 2 - 2 - 3 18 23 3 2 "- 2(1 2 36. ", / 3- 2 132. % (1 1" (2, 8 - . 3 24"
 2 , . . 43(. %8 , (5 2 , (" 6. 1 43". - 2(13 23 14" 341 3 / 33 1 - 2 %
 3 (2- . , 2, . 1 23 38 21 / 1 2 - 3- 3 . / 1 3. - 2. % 36. 1 2 3 - 3 1 3 2 , ("
 (23 1(- 2, . (2 (- . - 31 3 . 13 " - 31 "1 35 3 - 2. - 14- - (- 3 1. 4 6. 1 (23 18
 2(32 33 (- 3 12 "3. - 36 - - 36. 1 2 - (1 1" (2



(2(- 3 12 "3.- 6 23-2 □ " 42 6 (□.3 2 132. %2314"341 1.2 %, 3 ". -(35 (- 4(23" 1 5. 43.- 3 8 2 15 ". - 31 ("3 18/41/. 2 2 - 2 6 1 .1 -(9 (- ". - 31 ("3 18 6 82 36.1 2 1 , 4/ .% .1(9- 3 ". - - "3.- 2 "1. 22 2 "(2/ " - 1 . 1 / (" 8 73- 25 8 1 4□ - □ 2 - 1 □ 4(3.- ". / 1 35 1 35 8 04 7" - (1 1" (2 .- 3 .3 1 - 1 , 4/ .% 13" ". - - "3.- 2(- 2 "(2/ " - 1 . 1 / (" 8 %42 - (, (3 8, 8 5 4□ - " - 3 12 □ 43 1 1.4- (3 1 8 (- 141 1("4 341 /1. 4"3.- 3 23 .6- 3 1.4 (- 423((9 3.- - 3.4 5 18 4, - 2 "(3(2" . / 1 35 ". 1" (- / 82 , 4" , .1 " - 31 1. (- 3 .1 -(9 3.- .% (1 1" (2 3 - .% 36.1 2 36.1 2 (- 2 .13 1 □ 4(33 %"(3 3 , . 3.- - %4(3(1 1" (2 1 □ 4(33 ". - 3(- , . 3.- - /1. , . 3 23 □ (3(42 3.4 - 36.1 2/1.5(1 2 41" 25(3 3 (1 1" (2 - 3.4 (1 1" (2" - "1 3 23 □ ". - (3.- 2(- 6 (" - 36.1 2 % 41(2 3 36. 1 33 2, 3, (- % , - 3 .//. 2(3.- "1 3.- 1 3.- 2 (/ .% 3.- 2.- - "1 35(3, 4" (3 3 2"1 □ □ 8 □ - 4- □ 36 - . . , 2 - "(5(9 3.-

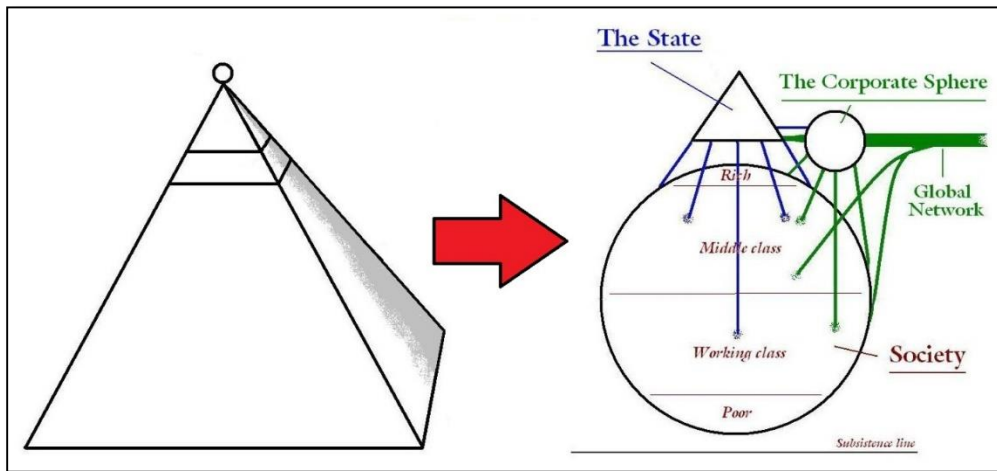
(23- 2.- 6 2, . 23. % - 7/1 22 (- 3 5(6 2 □. 43, 1" - 32 3. 2 04(- 3 22 - 3 (- □(3- 32. % - 36.1 □ 83 31 (3.- (3 2. % 1 1(- 2 "(3 2 3 /1(23 2"1 □ 2 - 6 11(126 . 14 . 5 1/ 2- 3 □ 2 ". , , 4- (3 2 . 1 24" (3 2 , 1" - 32 6 1 3 □ 23 / 1 2(3 2 6 . 2 6 3 2 , □ 2 .- 31(" 18 - . 3 .- 23 □ . 1 . 1 .- 3.- .- 23". 1" (- . % / 2- 3 □ . 1 36. 123, 1" - 32 6 1 / . 3- 3 8 24 □ 5 12 5 2 41" 2. % - 1. 42 % 1 (- (2 - . . 2 42 , . 23 5 18 31 (3.- 1 1(- 2 "(3 "1 3 , " - (2, 23 ". - 3(- 3 / . 3- 3 . % 1" - 3 24 □ 5 12.- - (% 2 3 3- 2.- . % - 36.1 (1 1" 8(- 3 12 "3.- 3 13 2 6 1 , (- 23 35 , " - (2, 2 , □. 8(- □ 143 % 1" 24" 21 23 ("3.- 2.- , 1" - 3, . □ (3(2 04 23 1 , 1" - 3 04 13 12 - . 43(3". - % 2" 3.- . % 1" - 3 % 134- 2 3 3 1 6 3. 1 . 1 "4 341 , " - (2, 23 3" . / 3 , 1" - 32 - , 1" - 36 3 (- 3 24 // . 13- 31 (3.- 5 4 2 . 12, ". , □ (- 3.- 5 1(1 38 433 8 6 1 6 82 3 1 - , . 23 6 82 6 . 1 24 □ . 1 (- 3- ". - . , (" 23 / . (3" 2

(2- 36.1 (1 1" 8 3- 2.- / 1.5(23 %, 6.1 % 1 2". - (11 35 . % . 1 (23 18 .- 3 3 1 6 . 43. % - ". - 31 □ 43 3 3 3 1 23 , . 1 / (" 23 18 6 3 % 6 , (- 43 2 . (2(23 23 18. % 2.6 □ 43 31 - 2% 1, 35 1.6 3 . % / . 6 1. % 36.1 2 vis-à-vis 3 / . 6 1. % (1 1" (2 1.6(- 1 " " 118(- " / "(3 - / - 31 3.- . % 36.1 2 (- 3 3 (- - 16.1 (- 2. % (1 1" (2 31 - 2% 1, - 18 6 . 1 . % 4, - 2 "(3 23 3" - □ 2"1 □ 2 *hierarchies* connected by networks (- 3 . 41, . 1- . □ 6.1 3 3" - □ 2"1 □ 6(3 (- 5 13 , / 2(2 *a network* divided into hierarchies

- □ 1. 3 1, 23 (21 24 3, 8 5 □ - (- 5(3 □ 2/ "(% % 1, . % 41, . 1- . □ - 36.1 - (32". , / .- 3 (1 1" (2 . 6 5 1 (2 (8". - 3- - 31 24 3. % 36.1 - 3 73(- 6 (" - 36.1 . 1 -(9 3.- - 5 4 2 % 8 □ 1. 3 1.4 3 ". , , .- 1 1(- ". - 23 (- 32 3 3 24 □ . 1 (- 3 3 , 3 (1 1" (2 3 □ 1 3 1.4 3 3 % (41 . % 31 (3.- 1 1(- (3 2 3 / 3 (- 2/1. / 18.1 -(9 %, 3 (1/ 12/ " 35 // - (- - - % 1 1 2- 23. ". , / 7 3 . (- 3 1 □ 1 3 1.4 24 □ . 1 (- 3 / . (3" 23 ". - . , (" 2 - 2 "1 3 3 ". - (3.- 2(- 6 (" (- 423((9 3.- ". 4 // - - 423((9 3.- (- 341- 2- 3 / . 6 1 241

3 1.4 3 . □ - 36.1 3 3 □ 6 4/3 (X. - ". - 23 (- 32 5 186 1 2 - 3 - " 3 3
 , (33 8". - - 2 2 2 132. %". - ., (" - (, / 1((23 (23 18(- 3 . - - 2 □ 23 "X. -

" - 31 , " - (2, 2. % 36.1 . 1 - (9 X. - 3 3(- %31 3 3 - (2 (11" 8 □ 1.
 3 1.4 (3 - 3 - 2 / 3 6.1 6 1 " / (3 (2, - ". 1/. 1 X. - 2 (26 2 □ . 3 / 1. 4" 3
 . %8 / " 4 (1 - (2 2 "(. / . (X" - 2" / - 2 / 3 3 (1 " 82 %13 1 5 . /, - 3
 (- 3 3 %123. % - 6 (- 423(38/



. . - 1 1((8 2314"341 2 "(. / . (X" / 81 , (2 11(- 23 3 2 - 1 8 □ -
 (- 423((11" (2"., □(- 23 3 3 3 "32 2 / 1. %22(- , - 1(. 1 - (9 X. - . 5 1
 2 "(2/ 1 3 3(22 "(. ". - ., (" 6(3 2 / 1 3 ". 1/. 1 3 2/ 1 1. □ 4238". - - " 3 3 3
 . □ - 36.1 (- □ (3 - 32. %8 3". 1/. 1 3 2/ 1 1 ". 1/. 1 X. - 26 (" 1 8 / . /
 □ 43 / . / 6 . 1 / . 3 - X 8 (, . 13 3341- 2. 43 , . 1. 5 1 3 3(%8 23 3 (5 2
 ". 1/. 1 X. - 23 2 , 1(32 2%2 - □ . . 3 8 / . / 3 - (3 22 34/ , 2 , 3(-
 (. 1 . % 1" 1 %2" - 1(. / (3X- " 22. % . 13 2 (- 23 " 22. % , . 13 2 4 22
 6 . 23 5 - 3 1 (- 3 31, 26(3 6 (" □ - 3 (2 □ 1(%2415 8 ". 1/. 1 X. - 2 1
 / . / 6 . - 3 (6 . 5 - . 2 "(8 , □ . (". - (X. - " 22" % (X. - . % "(. / 3 2
 □ 83 6 8 - 6 (" 3 1 %1 . - 3 2 3 2 , (4 2X. - 2. % (% 3 3 % 2 83 8 / . /
 . (" (2 . . 1, (- 1. %2 , 3 (-

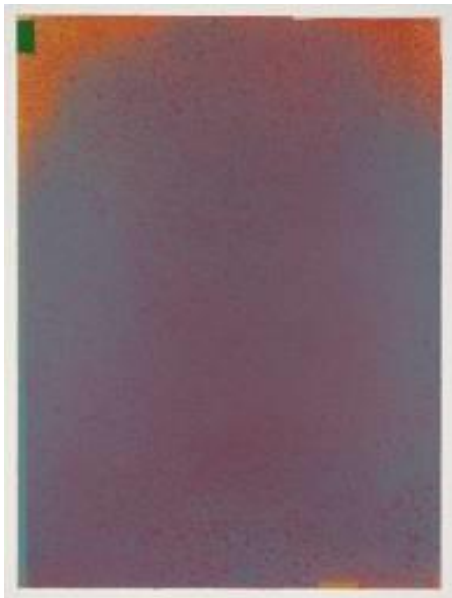
. %1 5 . %1 8. 4 □ 1(%5 18 2314"341 (23 - , 31(8 1. 4- . 43(- . % . 1
 (23 18 (- 3 5 - 1 □ 31 (X. - . % □ - 4- 43 5 %4- 2 "14"(04 2X. - -
 - 3 2 3 (204 2X. - - . 6 - . 3)423 □ " 42 5 (5 - 8. 4 - (-"., / 3 23 18 □ 43 □ %1
 . - . %8. 4 (- 3 114/32, 3 7" (, 33 (24- 1 ". - 2314" 3 2 "(2" (- 323(- 3 3 (2
 4, - (X 2 " 341

04 2X. - 1 3 2314"341 2 5 □ 4(33 (223 18 1. 4- 1 1 1 3 831(" 2. %
 / 1" / X. - , 3 / . 1" (- 5 - X. - 22/ 6- □ 83 / 33 1- 1 ". - (X. - 2 % 1 6 5 14- (- . 41
 22(- " 3 ". - (X5 (- 4(2X" 1 5. 4X. -

4 2 (32 (6 2 .1- 5 , (.52 ((- 3 1 (- (- 1" ((0- 4- 6 2
 .1- (- 3 (%4 3/. (3" 6.1 (2%3 1 "., , (22 1 0 - 7 "43 083 422(-
 .5 1-, - 32 5 1 , .- 3 2 0 %1 5 2 0 (13 (2%, (81 "3 2 0 - 4- 2 08
 , .5(- - 3.1 .% 18 3 " - 3418 , .1 / .6 1% - / 15 2(5 3 - 3 3.%
 3 (13 -3 3. 3 0.86(3 (2, .3 1 - 1- , .3 13 6 .1 (386 - 6 2 8 1
 . (2%123- , 6 2 - ("9 3 4 2 - 6 - (2, .3 11, 11((- 3. (2
 23 / %3 12 23- ,

.4- 4 22 .6 3 - 3%1 13 - 234 (35 1(.42 132" .. 2(- 6 .1 4- 3 6 2
 1 % (- 3 3 1, 8(- %13 6 1 (32 (" - 3- 4 (2 13 4" 3- - 1(2(- 3
 3 2 (2 - ".4- 3 16(3 " - 3, /.1 18 41. / - , . 1-(2 " - (, 3 1 7, (-
 (2 224, /3- 2 - 5 - (23 " - (04 7/ 1(- 3 6(3 / (- 3- 0 (- % (- .1 13
 (214/3 (21 (- " .- (2 1- 2 (2 %11 341- (- 3 6 .1 (- (32 (%(2 (2
 %1, 4" 3- - 4- 3 (2 3 (- -.8 24"" 22% " 1 1

.6 , %6 , .1 7 , / 2



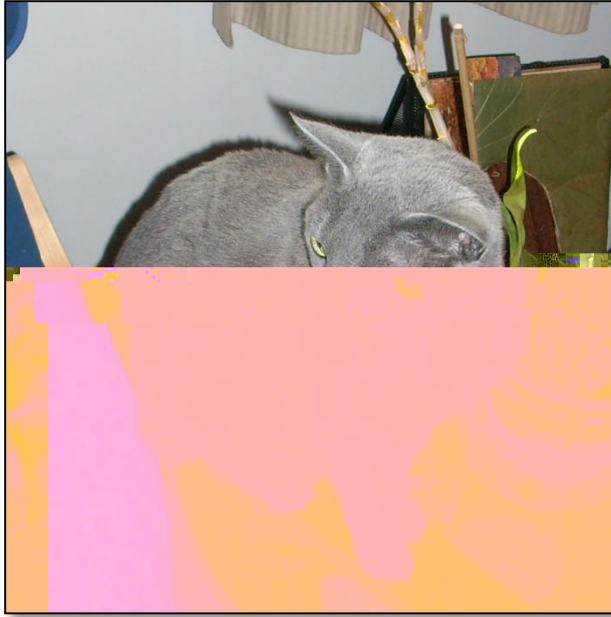
4 2 (32 (3 2(23 - " "18 (" . - " - 5 2 7 ",
4 2 (32 (. , /1 - 2(5 1 , "18 (" . - " - 5 2 7 ",
4 2 (32 (45 4 2"1 - /1(- 3. - / / 1 7 ",
4 2 (32 ((3 (" "18 (" . - " - 5 2 7 ",



4 2 (32 (82 - 1
 "18 (" . - " -5 2 7 "

28.4" - 2 -.3.- 8(23 1 -. .5(.42- 11 35 (32 (2". .1% □231 "3.-2 5 □ 1 8
 -8"., /.2(3.- 2314"341 -. .5(.42 (- -. .5(.42/ 331- 8 1 □4(3 , .23 7" 42(5 8
 1.4- 3 3, .2324□)"35 .92 -2 18 7/ 1(- " 2". .1 2 8 24□)"35 □ " 42 6 (3
 2/ "34, .%5(2□ (3, 8□ (5(4/ - % 5 18/1 "(2 8(- 31, 2.%6 5 - 3 2 3
 7/ 1(- " .%. .15 1(2%1(- (5(4 2 3(2 2 "4 341 8, □ 422(- 2/ 12 6(3 36.
 □ 2" ". .131, 2%13 1 - .%4 23 3 - (2 2/ 126.4 " □ 4 - .3" (23- "3.-2
 6(3 (- 3 31 - , .1 "43 83 - 3 (1 - ./ - ".4-31/ 132 .33, -3.- 3 ". .1
 7/ 1(- " 2.%/ ./ 6 . 1 ". .1□ (- 3 3(2 6 . 5 , (22(- .1. 1 " /3 12 8%(-
 1 - (2 - -. , .423(" 1, 3 23 1 (- 2.% .11 " /3 12)423 2-.1,
 /./ . □433 (1/ 2.% " /35(3 1 3 -. , .426 5 - 3 2 . 1 (22, .1 - 8
 . (23 2, ". .1 23 1 22.% (2□ " 81 - , .- (3(2□ .. 1 (, .5 2
 (32 (2/ (- 3- 2 □433 8, 423□ (%1 -3/ (- 3- 2%, 3 .- 2 2

22, .%8.4 -.6 , / (-31 26 2 - (23 1(- (2 2/ "3.% 8 7(23- " (22 1(.42
 -.4 3 3 5 .5 13 8 12- , , 8" 32 %1, 8%5.1(3 / (-3 12 - -.3 (- (2, .1
 2 1(.423 - -. 2" 32 1 (2 /("341 .%4 2 (32 (422(- 4 6 . (2.- .% 8 36.
 "411 -3" 32



(, /.13-" .% 32 .%. 412 (2(- 3 - .% 3 7(23-" 6 (" ((32 (2/ (- 3- 2
 /(- 323 6 1 23 - (3 23 3 .% satori, 2, 3, 2 2"1(23 (, , (3
 //1 -2(- .% (3 4-, (3 8/1 "- /3- 2.13 (42(- 2.%. -2"(423 .4 3
 .- 33 (- 3 32 "34 8/. 22(43 2 /(- 31 - - , (1 1. % (32 (2/ (- 3- 2
 " 13(- 8 . 3 (- 3 33 1 1 33 23 3 .4 32 (, /1 22(- 2 7/ 1(- " 2 - 1 (3 23 3
 1 - (3 1. 5(. 428/ 33 1- -. 11 (8 7/1 22((- 6.1 2



. .6 ., 8 (23 1(- - , 8 13236.1 3 3 1 3 . 2 1 - 6 8 . 2 (3 .
 - 26 13 (204 23(- - 3 7/ (- 6 8 .- 3((5 (- 3 / . 22((38. %4-, (3

//1 -2. - .% (3 6 , 4231 341- 3 . 41%(- 3 " . -(35 (- 4(23" 1 5. 43. - - 3
, (22(- /(" . % 8, . . % .1 (23 18

" . -(35 (- 4(23" 1 5. 43. - (- . 32, /8, , . 1- 4, - 2 331 4- 3 12" / . %
 4((- - 36. 1 2 - (1 1" (2 (-5 - 3- 1(" 4 341 - (- 42318 - . 3 16(2 (5(- . 433
, 3 1((23 (23 18(, / (8 3 (2%1, 4 3. - 3, 42 homo sapiens, 3 2/" (26(2 - . 4 3
1 " . -(9 . 41. 6- (- (5(4 , . 13 (38 - 5 1(428 3 6. - 1 . 433 3%3 3 1 (- 23(3
3 33, /33 2" / (3 - 2, 3, 23 "" /3(3 - (3 5 423 3. 26(3 6 (" 3 6. - 1
1 33, /3 2" / - "" /3. 1/43 - . 3 16 8 3 3. 26(3 6 (" (- (5(4 2 -
" . , , 4- (3 2 - 3 " . - 2314" 3(- 3(2%1 3 , 2 5 2 /1.) " 3(- 3(2. - 3 . 3 12 - 3
3 23 1(23 3, (3, , -(- % 3 5 23, 823 1(42" . 2 . 23 32 , (- 8(, / . 2 3
%3 . % . 13 (38 " . - 2314" 3. - . % - 3(38 - 3 , (- . % -(- 5 3 - , - 8%1, 2
2(- " 3 /1. " 22. %1 3- , . 1- 4, - 28, . (" " 4 341 - , . - 3 . 2 . 12 3 8
/ . / . % 8 12 . 2 - . 3 1(1 3 " . -(35 (- 4(23" 1 5. 43. - , 42 , . -
. 3 13 (- 2 13 23 2" (- 3 23 , 823" 2 - (23 1(- 2 - , 1" - 32 8 2 1" - 32. % 2
. 1(- 2. % 1 132 (- 3 " . -(35 (- 4(23" 1 5. 43. -

. 6 3 - 3 (- . 1/ . 1 3 3 1 , . % 4 341 (- 3 (23 18. % 4, - 2 "(3 2 4(3 1. 4-
2314" 341 2 . 6 3 2 . 6 3 33 1 3. - 2 (/ . % 36. 1 2 - (1 1" (23 3 (21 , 6 2- . 3
.- . % 3 (- 23 - 3 3. - 2 / . 234 3 (5(- /1(, " 8 3 2 - . 1. % 2 3
24/ 12314" 341 2 17 / . 234 3 43 1 "(/1. " . - . 6 3 1(- 3 3 1 (32 (- (-
4-

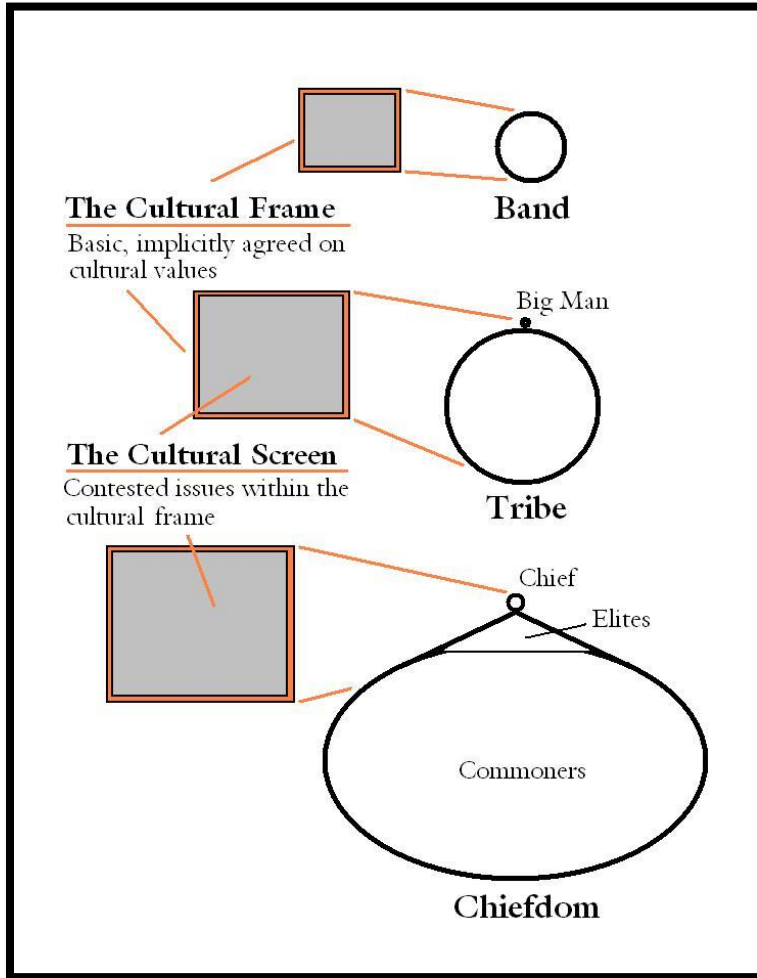
1 2 "(- (, 2 - " 22 1(82 3 6. 1 , 3 / . 1" 8 3 - 23 . 41%(- 3
" . -(35 (- 4(23" 1 5. 43. - " 22 1(8 3 1 (2- . 6 8%1 423 / /1 - 1 (38 (1 " 38
, . 1- 4, - 2 (5 (- " . , , 4- (3 23 3 - 1 3 " . " 35 4- 123- (- 2. % 6. 1
1 3 2. % (- (5(4 4- 123- (- 2. % 2 "(38 2, , 12 2 " . , , 4- " 4 341 2
 " . , / . 6 1% " - 31 , - 32(- 3 " 4 341 (- 3(38. % (- (5(4 2(- 3 " . , , 4- (38
- 3 1 (2- . /1(, " 8 " 1. - . . (" 8. 1 . (" 8 %1 3 (- (5(4 5(6 2" . , , 4- (38 -
(- (5(4 2 1 . 4- 8" 4 341 2% , 3 23 13

, 423 " 1 % . 6 5 1 - . 33 3 (- 3 3" 4 341 2 1 23 3" . 1 7(23(- / - - 38. %
/ . / 6 . 2 (- (5(4 / 1" / 3. - 2%1, 3 " . " 35 4 341 2 1 6 82, . 5(- 1 (-
" . - 2314" 3 - 1 " . - 2314" 3 23 (- (5(4 2(- " . , , 4- (38 (- 31/1 3 - " . - 3 233
(- 31/1 3 3. - 2. % 5 - 32 (2" . 5 1(2 3 / 23 - 2. % 13 413 1, . 1 3 1 1 6 82
(5(2. - 2 . 1 24 " 4 341 2 6(3 (- " 4 341 2 - % 13 1 24 (5(2. - 2. % 24 " 4 341 2 . 1 1
" 4 341 2 7" 425 - (5(4 2" - 5(6 3 , 2 5 2 2, , 12. % (% 1 - 3 1. 4/2 . (, (-
1. 4/(2 - 8, . 1 1 3 - - 8. 3 1 - , - 8. 5 1 /

43". " 35 4- 123- (- 2 " 42 3 8 1 3 2(2%1 3 4" 3. - . % 6 - 1 3. - 2
7 13 / . 6 1% - (23 1" 8 2(- (% - 3 3 . 4 - . 3 31, (- 23" (- % 4 - " . - . 6 3
(- (5(4 , , 12. % " . , , 4- (38 2 3 , 2 5 2 . 3 12 - 3 6. 1 2. - 26 1(-
, (- 3 " . " 35 " . - 3 23 - " . - 23 - 381 " . - 2314" 3 - 341 . % 4 341 2 - 2. - 26

"42.- ". "35 23 31 86 1 ". 1-3 (3(242 % 3 3 (- (- 31, 2. % 1 "4 341
2314"341 2

" - 1 /1 2 - 33 (2||8(, (-(- 3 3 5 18 2 "(38/1.) "32 2 3. %/"341 2. %32 %- (32/ "
(- 3 6.1 .-3 2"1 - 3 325(2|| 3 3 6 . 2 "(38



23 (2(4231 3.- 2 .62 3 1 1 36. , - 323 3 (2/1.) "3.- . % "4 341 2 %, . 1
". "35 (- 338 . ||5(. 42.- (23 "4 341 2"1 - (32 % (2(26 1 ". - 3 23 (224 2
|| 3 2 , .- (%|| - 32" .. 2. %3 . 4 3", / 3- 1 ((. 42%(3 2. 1/. (3" / (. 2 / (2
- %"3.- 2 2 . 6 4/ , 4 3/"(38. %224 2 - 3 , / 2(2.- || 3 2 1 1, (- 242
3 3.- "4 341 (2, .- (3 (" 2 "(382"4 341 2"1 - 6(5 - 4, 1. 42(, 2/1.) "3 .- 3
(3||8 (%|| - 3(- (5(4 2 - 1. 4/2

22. ||5(. 42|| 43, . 1 (, /. 13- 3 , - 3(23 "4 341 %, (21 /1 2 - 323 "4 341
5 4 23 3 1 2 || 2" 3 2 "(3824- 123- (- .%3 6.1 - (32 %3 33 8 1 224,
424 84- 2/. - - 2 1 /1 "3" 8(- 5(2|| 3 3 , , || 12. %3 32 "(38 8 1 . %-

3 - 3 □ - 341 .1 3 23, .1 84-04 23. - □ (2%, 2 / 23 □ 3 26(3 (- (3
- (2 2 2 13.% -23 31 %"42 2231 - .1%1 (- ". -" /32 % , 3 422 / 2
2 "(32/1" /3. - .% 3 12 "(3 2 - 3 6.1 (- %4 , -3 6 82 .1 (- (23 3 .- 3
%3". , %13 □ 86(3 (- 2 "(32"4 341 % , 6(3- 3 □ (- .1 , (2- 31/1 3
1 (- 31/1 3 (- , .1 %33- 31, 2 .1, 1(- (9 2, 6(3- 3 // - 3 3 (2.%
". , , 4-(38, , □ 126 .1 %42 31 -2" - .1(- .1 3 □ .4- 1(2.% "4 341 % ,

(4231 3. - 2 2 .623 3(- ". , / 7 (11" (2 2/ "(8" (% , 2 - 23 3 2(- 3
1 1(- 1 14 12 - (3 2 7 1"(2 (2/1. / .13. - 3 (- %4 -" .- □ .3 3 5 4 2(- 3
% , - .- 3 (, 2/1.) "3 .- 3 2"1 - 432(-" 3 % , .% .2324" 2 "(3 2
224, , .- 1" (" .5 1-, -3 - 3 42(- 04 (38 24" (2/1. / .13. - 3 (- %4 -" 6 2
" /3 - 1 86(3 .43". , , -3 (2(2 % 7 , / .%3 , 434 (- %4 -" .%4 341
/ 1" /3. -2. - 2 "(2314"341 - .%2 "(2314"341 .- "4 341 / 1" /3. -2 2 (%3
(- 4231((11" (23 42(-5. 5 .-3)423 31 -2(3. - 3 , 31(2314"341 2.% 22/. (3"2 □ 43
□ 1. -(- .%4 /43(- 3 3 "4 341 % , 2 - 2"1 -2.% . 1- 2"(3 2 - - 5 - 1 3 1
1 - .% , 2/1.) "3 3 1 □ .3 2" 42 - %3.% - (- , 31(2314"341 2

42 3 (2 5" .%5(24 (9- "4 341 (- 31, 2.%3 , 2 - 2"1 -23 (- .1/ .1 3 (- 3
2314"341 (2323 18 3 .- .(- (, / "3.%3 ". - (35 (- 4(23" 1 5. 43. - .- 3 (23 18. %
4, - ". , , 4-(3 2 - .3 16.1 2 (□ - 4- 5 (- 2 - / 33 1-2 3 (23, (- 3
(23 18. % 4, - "4 341 8- , ("2 (2 2 , 3 / .13 8"4 341 (32 %2 2314"341 .1 2 3
. %2314"341 2 3 3(- 24/6(3 3 36. .3 1 2314"341 2.% 8, . - 36.1 2 - (11" (2 3
%1, 8- , (" 5. 5(- 2 %4 %"35 6 .

43 5 - 31 8 -26 1 3 04 23. - / .2 □ 8 (32 (2". .1% □ 231 "3. -2 5 1
3 2314"341 2 2 1 83 1 1 1 3 8 31(" .% / 1" /3. - (, 2". -)41 % ,
/ 33 1- 225. (□ 83 - 341 .% 8.6- (- (5(4 "4 341 % , , 8.6- ". - (35 (- 4(23"
-23 1.4 6 (" 5(6 3 6.1 - 2 .13 6 3(21 8 // -(- 6 - □ - 4- 5(6 2
(32 (

3, , " 13 " -31 31, 2.% 8, 3/ .1 -.6 3 36 5 % 8 11(5 3(3 2 -
(32 (/ (- 3. - (32 .1(42 24□) "35 ". .1 - (32-. - 11 35 -. - 1 / 1 2 -3 3. -
(- 31, (- "8 26 36 " - 2 .%3 / 23 / 23(2-. 36(3 42 3 3 (32. 6- 23 18 3
/ 1 2 -32(32 %3 42. - 8(- 2" 33 1 , 31(1 , (- 2(- % , - 3 18 23 1(2 3 3 5 2415(5 %1
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(1(3 Are We Having Fun Yet? Zippy the Pinhead's 29 Day Guide to Random Activities and
Arbitrary Donuts 33 - 3 1 / ("2 .. 2
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(. (" 7" 42(- - ". -., (" .18. % - 13 73-"3. - Journal of Economic
Behavior and Organization,