

Understanding Views on Sentience and Conservation: A Study of Emotional Experiences with Wildlife

Authors

Cppc'Tgkm{.'Cpplg'N{pej . 'Mcvk'Tlej ctf u.'P gm'F qwi ru. cpf 'Nk' 'Lghgt {

Gpxkqpo gpvcn'Uwf lgu'Rtqi tco . 'Dquvp'Eqmgi g.'Dquvp. O C.'24689.'WUC

Corresponding Author

Igppkgt'Tgdgeec'Uej cwt.'649'O eI wkpp.'F gr ctvo gpvqh'Uqekmqi {.'Dquvp'Eqmgi g.'Dquvp. O C'24689=[ngm{ clhB deQf w](#)

Authors' Contributions

CT.'CN.'MT.'P F.'cpf 'NL'f guki pgf 'vj g'r tqlgev'cpf 'eq/y tqvg vj g'o cpwuetkr 0

Running Title

Xlgy u'qp'Ugpkpeg'cpf 'Eqpugtxcvqp

Keywords

Ugpkpeg="eqpugtxcvqp="dkqf kxgtuk{ =y kf rkg="eqgz kvgpeg

Word Count

; 54:

Article Impact Statement

Vj ku'r cr gt'kf gpvkhgu'cpf 'o gcuwtgu'oj wo cp'r gtegr vqpu qh'cpko cn'ugpkpeg.ö'kpvkpi "cp go qvqpcn'cr r tqcej "q'tghgevkpu'qp'y kf rkg'kpvgtcevkpu. eqpugtxcvqp."cpf "dkqf kxgtuk{0

Acknowledgements

Vj g'tgugtej gtu'y qwf 'hng'v'vj cpn'Rtqhguaqt'Igppkgt Uej cwt.'vj g'Gpxkqpo gpvcn'Uwf lgu r tqi tco . 'Rtqhguaqt'Vcte'RkucpkI ctgcw.'qwt'hgmjy Ugpkqt'Tgugtej "Ugo kpc't'encuo cvgu."cpf "qwt r ctvkr cpw'hqt'vj gk'eqpvtkdvwkpu'v'qwt'uwf {0

Problem

Cu'j wo cpu"eqvkwg"q"gpctqcej "w qp"pcwtcrif cdkcw.

ugpvkpv'dgkpi u'lp'qtf gt'vq'tgeqi pk g'qwt'eqo o qp'r meg'qp'Gctvj 0Y kj lp'y ku'eqo o wpkv'ugvki .
y g'y cpv'q'hqvg't'o gcpki hwt'ghgevkpu'cdqw'j wo cp/cpk cnkpvgtcev'qpu'vj cv'y knkphwpeg
r ctvek cpw'qy p'nxgu'lp'qwt'ecm'hqt'y tkwgp'pcttcv'xgu. y g'ctg'j qr kpi 'vq'j cxg'cp'lo o gf kvg
ghgev'qp'dqj 'vj g'tgugtej gtu'cpf "'vj g'r ctvek cpw'0Dwrf kpi 'qh'h'qh'Tlej ctf uqp'v'kf gcu.'vj g
tgugtej gtu'dgn'xg'vj cv'y g'y tkkpi 'r tqegu'y knkpk'cv'f kvexgt { 'hqt'vj g'r ctvek cpw.'kpv kt g
eqppgev'qp'dgy ggp'j wo cp'r ctvek cpw'cpf 'ugpvkpv'k'g.'cu'y gml'cu'r tqf weg'o gcpki 'cpf 'etgcv
pgy 'cy ctg'p'gu'qh'tgcrk'v'lp'vj g'r tqegu'*Tlej ctf uqp. 4223-0Vj g'tgugtej gtu'cempqy ngf i g'vj cv
y tkkpi 'ecppqv'dg'w'p'k'p'v'f 'h'qo 'vj g'h'g'g'zr gtlgpegu qh'vj qug'y d

r ctf ki o . "qt "gnug" yj g { "o c { "t glgev" yj gug" kf gcu" qwt ki j 0Vj wu. "T gkm { "hggnu" yj cv" yj g" dguv" cr r tqcej "ku
vq" gcug" r gqr rg" kp" vq" yj gug" f kuewuukqpu. "gur gekm { kh" yj g { "ctg" vphco kktct" y kj " yj g" vqr leu0

N { pej "ku" eqo r gmgf "vq" f geqpust wevf qo kpcpv" ur gekgu ecvgi qtkgu" cpf " y qtmci clpuv" yj g
j wo cp" gzege vqpcrkuv" htco gy qtn0Kpur ktf "d { " yj g" y qtmqh" Mktmug { "cpf " J gm tglej " *4232+ " N { pej
j qr gu" vq" dtkpi "kp" r gtur gevkgu" qh" gs wcrk { . "tgr nceki yj g" rpi wci g" qh" pqpj wo cp" ur gekgu" y kj
o wkur gekgu" wpf gtucpf kpi 0Cf f kkpccm { . "k" ku" ko r gtcvkg vq" cf xcpeg" qwt " Y guvtp" r wdrk
wvf gtucpf kpi "qh" cpko cniugpvkpeg" dg { qpf " wkrkctkcp xcncvkvq" qh" ur gekgu. "cpf " vqy ctf u" cp
wvf gtucpf kpi "qh" o wkur gekgu" cu" i qpf "vq" rkg" y kj . cpf "co qpi " *Mktmug { "cpf " J gm tglej . "4232+0

Tlej ctf u" dgrkgxu" yj cv" yj g" dkpctkgu" yj cv" gzku" vgr ctcvki pqpj wo cp" cpko cni" htqo " j wo cpu
ctg" j cto hwnht" cm" ur gekgu0K" ku" kp" cm" ur gekgu dgu" vkvgt guv" yj cv" uvej "dkpctkgu" cpf " j kgtctej kgu" ctg
f kuo cpvrgf "dgecvug" cm" rkgu" j cxg" kpj gtgpv" xcncvkvq0Tlej ctf u" j qr gu" vj cv" gpi ci kpi "kp" etkccn" cpf
gptlej kpi "eqpxgtucvkvpu" cdqw" cpko cniugpvkpeg" ku cp" ko r qtcvpv" vgr "kp" dtgcnkpi "f qy p" yj gug
vcf kkpccn" dcttktu0

Trends in Existing Literature

Vj g" gzku" kpi "dqf { "qh" t" gugctej "g" zr mt gu" yj g" tqrg" qh" xcncvkvq. "cvkwf gu. "cpf " f kt gev" kvgtcevkvpu
qp" yj g" tgrcvkvpuj kr "dgy ggp" j wo cp" cpf " pqpj wo cp" etgcwtgu. ekk gp" o qpkqt kpi . "cpf
eqpugtxcvkvq" r tcevkgu0Vj gtg" ctg" c" xctkqv { "qh" t" gpf u gur gekm { "ucnkgpv" vq" hwwt g" t" gugctej "qp" yj g
tqrg" qh" ugpvkpeg" kp" o qkxcvkvpu" ht "dgwgt" t" gcvo gpv" qh" y kf rkhg0P wo gtqwu" uwf kgu" j ki j rki j v" yj g
ko r qtcpeg" qh" eqo r cuukap" kp" j wo cp" cvkwf gu" vqy ctf u y kf rkhg. "tgr qt vki "go qkqpcn" xctkcdrgu" cu
yj g" utqpi guv" r tgf levqt "qh" y kf rkhg" o cpci go gpv" qh" j qwug" ur cttqy u=cpf . " yj cv" j wo cp" go r cvj {
vqy ctf "cpko cni" cpf " utqpi gt" hggkpi u" cdqw" ugpvkpeg o c { "rgcf "vq" dgwgt" t" gcvo gpv" qh" cpko cni
*Nctupq" gv" cr0"4238=Eqt pkuj "gv" cr0"423: +0Go r cvj gve tgcvo gpv" qh" cpko cni" gzvgpf u" vq

r gtur gevkg" F qnd{ . '4242+0F qnd{ au'go r j cuku'qp'go r cvj { 'kp'j gt'uwwf { 'cpf'j gt'wug'qh'eqmgi g
uwwf gpw'cu'r ctvkr cpw'ctg'vy q'vj kpi u'y gdf 'hng vq'o kttqt'kp'qwt'uwwf {0Y cmcej 'cpf'eqmgi wgu
cti wg'hqt'vj g'ko r ngo gpvcvqp'qh'eqo r cuukqpcvg'eqpugtxcvqp. c'hqto 'qh'eqpugtxcvqp'kp'y j lej 'cm
pqp/j wo cp'cpko cn'uwldgeu'ctg'tgcvgf 'cu'ugpvkpvdgkpi u'cpf'ctg'uggp'hqt'vj gkt'kptkpuke'xcnwg
*Y cmcej 'gv'cn0'423: +0Vj g'cwj qtu'uwwf kgf 'xctkqwu ecugu'qh'cpko cn'eqpugtxcvqp'cpf'etkks wg'vj g
y c{u'vj g{ 'ki pqtg'cpko cn'ugpvkpeg'cpf'cev'y kj 'cp cpvj tqr qegpvk'ugv'qh'i qcm'*Y cmcej 'gv'cn0
423: +0Y j kg'y g'y kn'pqv'dg'cpcn{ | kpi 'ewttgpv'eqpugtxcvqp ghqtu.'y g'y kn'dg'kpxguki cvkpi 'vj g
tgrcvqpj k 'dgw ggp'xkgy u'qp'pqp/j wo cp'cpko cn'ugpvkpeg cu'k'tgrcvgu'vq'cwkwf gu'vy ctf u
eqpugtxcvqp00 cphgf q'cpf'eqmgi wgu.'y tqwi j 'vj gkt cpcn{ ulu'qh'uqekqewwcn'xcnwgu'qp'y kf rkhg
eqpugtxcvqp.'f ghkg'xcnwg'u{ uvgu u'vj tqwi j 'o cvgtknewwtg.'uvtkgu.'xcnwg'u{ uvgu u'cpf' o qtg
*4242+0Vj ku'uwwf { 'cuuguu'vj g'ko r cev'qh'xcnwgu'vy ctf u pqp/j wo cp'cpko cu'qp'y kf rkhg
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ko r cev'r gtegr vqpu'qh'y kf rkhg'eqpugtxcvqp'vj tqwi j uvtkgu.'r j qvu.'cpf'qvj gt'uwej 'o gf kwo u0k
qwt'f cv'eqmgevqp'r gtlkf 'y g'cko 'v'hqugt'c'y cto cpf'ceegr vki 'gpxkqpo gpv'hqt'vj g
r ctvkr cpw'kp'qwt'f kuewukp'i tqw 'y j gtg'vj g{ 'y kndg'kpxkgf 'v'twn{ 'gzt'qtg'vj gkt'vj qwi j u'cpf
hgkpi u'cdqw'cpko cn'ugpvkpeg0Uko krcn{ 'v'F qnd{ . y g'y kn'gpeqwtci g'r ctvkr cpw'vq'r w
vj go ugrkgu'kp'vj g'qvj gt'dgkpi au'r neg'cpf't { 'v'kpvgr tgvcpf'tgegkg'vj gkt'gpgti { 'cpf'go qvqpu0
Y g'y kn'r tqo r v'vj g'uwwf { 'r ctvkr cpw'vq'vj qwi j vwn{ tghgev'wr qp'vj gkt'kpvgtcevqpu'y kj
pqpj wo cp'y kf rkhg'cpko cu0Y g'y cpv'vq'ecm'cwgpvqp vq'vj g'wpls wg'gpgti gke'dqpf 'vj cv'ku'uj ctgf
dgw ggp'vy q'ugpvkpvdgkpi u0Y g'y kn'gpeqwtci g'qwt r ctvkr cpw'vq'dtkpi 'cp'gxgt'r tguvpv
cy ctgpguu'qh'eqpuekqwpugu'vj cv'cm'hkxkpi 'etgcwtgu r quuguu0Y g'j qr g'vj cv'vj ku'j gli j vpgf
cy ctgpguu'ecp'rgcf 'v' o qtg' o gcpkpi hwnf kuewukp. tghgevqp.'cpf'eqpvkpwgf 'o wvcm{ 'dgpghkcn

r ctvkr cpw'vj tqwi j "eqpxgplgpeg"uco r npi . "cu'vj g'tgugctej gtu'lwtxg{ gf "cwgpf ggu'vq"cp"cpko cn
y gntctg'u{o r qukwo "423: +0Kp'dqvj "uwf lgu."r ctvkr cpw j cf "ctgcf { "f go qputcvgf "c'uki pklcepv
kpvgtguv'lp"cpko cni'cpf "cpko cni'y gmlgkpi . "y j lej "ko r cevgf tguwu"*Nctuqp"gv'cni"4238=Eqtpkuj "gv
cni"423: +0Qwt'uwf { "y km'dg'htqo "c'o qtg'o kzgf "dceni tqwvf qh'r gqr ng'y kj "xctkqu'kpvgtguu."pqv
lwv'ko kgf "vq'r gqr ng'y j q"ctgcf { "uj qy "ur gekni'kpvgtguv'lp"cpko cni

Areas for Further Study

Y j kg'vj g'rkgtcwtg"qp'y kf rkg"eqxgtu'dqvj "c'tcpi g qh'uwvqr leu'cpf "eqpukf gtcdrf" f gr vj
kp'ur gekle"ctgcu."uki pklcepvi cr u'r gtukn0Ur geklecm{ . vj gtg'ku'o wej "vq'dg'uwf kgf "qp'vj g
r gtegr vkp"qh'cpko cni'ugpvkpeg'd{ "j wo cp'dgkpi u."j qy vj ku'ko r ceu'j wo cp/cpko cni'grvkpuj kr u.
cpf "y j cv'ghgevu'vj ku'j cu'qp"eqpugtxcvkp"ghqtu cpf "cy ctgpguu0Nctuqp"cpf "eqmgci wgu'cpcni'uku
qh'gzr gtlgp'kni'hcexqtu'uw r qtu'vj g'dgrkgh'vj cv'gzr gtlgpegu y kj "y kf rkg'utgpi vj gp"chgevkxg"cpf
go qvkpcni'tgur qpugu'vq'y kf rkg'uko wk"*Nctuqp."gv'cni"4238+0Vj ku'uwf { "qr gpu'wr "cp"ctgc'ht
tgugctej "qp'vj g'tqg'qh'wvf gtucpf kpi "cpf "cr r tgekvkq qh'ugpvkpeg'ht"vj g'htto cvkq"qh
go qvkpcni'f kur quk'kpu'cpf "cvkwf gu'vqy ctf "y kf rkg'0Vj g'y qtn'qh'Eqtpkuj "cpf "eqmgci wgu
ulo krcni' "etgcvgu'vj g'r qvgv'kni'ht'hw'vj gt'tgugctej qp'y j cv'gzcew' "o qv'xcvgu'r gqr ng'vq"eqppgev'vq
cpko cni'ugpvkpeg"*423: +0Y j kg'vj g'tgugctej gtu'gzco kpg f go qi tcr j le'hcexqtu'vj cv'kphwpeg

r t g x l q w u n { ' d g g p ' c w g o r v g f ' k p ' q v j g t ' t g u g c t e j 0 Y g ' y k m l r t q o r v ' j g ' u w f { ' r c t v l e k r c p w u ' v q
v j q w i j v h w m { ' t g h r g e v ' w r q p ' v j g k ' k p v g t c e v k a p u ' y k j p q p j w o c p ' y k f r k h g ' c p k o c n u 0 Y g ' y c p v ' v q ' e c m
c v g p v k a p ' v q ' v j g ' w p k s w g ' g p g t i g l e ' d a p f ' v j c v ' k u ' u j c t g f d g w y g g p ' y q ' u g p v k e p v ' d g k p i u 0 Y g ' y k m
g p e q w t c i g ' q w t ' r c t v l e k r c p w u ' v q ' d t k p i ' c p ' g x g t ' r t g u g p v c y c t g p g u u ' q h ' e q p u e k q w a p g u u ' v j c v ' c m l h k k p i
e t g c w t g u ' r q u u g u u 0 Y g ' j q r g ' v j c v ' v j k u ' j g k i j v g p g f ' c y c t g p g u u e c p ' r g c f ' v q ' o q t g ' o g c p k p i h w n
f k u e w u k a p . ' t g h r g e v k a p . ' c p f ' e q p v k p w g f ' o w w c m { ' d g p g h e k e n k p v g t c e v k a p u ' d g w y g g p ' q w t ' u w f {
r c t v l e k r c p w u ' c p f ' c p { ' p q p j w o c p ' y k f r k h g ' c p k o c n u ' v j g { o c { ' g p e q w p v g t 0

Research Question

Y j c v ' o q v k c v g u ' r c t v l e k r c p w u ' v q ' e q p p g e v ' v q ' c p k o c n u g p v k e p e g . c p f ' j q y ' e q w f ' v j k u
o q v k c v k a p ' r g c f ' v q ' d g w g t ' t g c w o g p v ' q h ' y k f r k h g ' A Y g j q r g ' v q ' c f f ' v q ' g z k u k p i ' h v g t c w t g ' d { ' h k k p i ' v j g
i c r u ' e q p e g t p k p i ' v j g ' g o q v k a p c n i k o r c e v ' q h ' y k f r k h g ' k p v g t c e v k a p c p f ' c e v k a p c d r g ' g h g e w ' v j k u ' j c u ' q p
j w o c p ' d g k p i u ' v q y c t f u ' e q p u g t x c v k a p ' c p f ' y k f r k h g ' j c d k c v r t q v g e v k a p 0 K g c m { . ' y g ' y k m k f g p v k h {
r c w g t p u ' c p f ' t g p f u ' k p ' y k f r k h g ' k p v g t c e v k a p u ' v j c v f g o q p u t c v g ' g h g e v k g ' y c { u ' v q ' g p e q w t c i g

qwt'r ctvlek cpwøqxgtcm'gzr gtlgpeg'y kj 'yj g'uwwf {0Dquxqp'Eqrngi g'uwwf gpw'ctg'wpls wg'lp'yj gk
cdkxv\ 'vq'tghgeev.'eqo o wplēcvg.'cpf "go r cvj k g'y kj qyj gtu0Cm'Dquxqp'Eqrngi g'uwwf gpw'ctg
tgs wktgf 'vq'eqo r rvg'yj g'Eqtg'Ewtlkwwo 'y j lej 'hquvgtu etklecn'yj kpnkpi 'unkm'cpf 'yj g'cdkxv\ 'vq
eqo r cuikqpcvgn\ 'eqo o wplēcvg'kf gcu00 qtgqxtg.'yj g'Lguwkvxcnwgur tqo wni cvgf 'yj tqwi j qw
Dquxqp'Eqrngi g'r rēg'c'utqpi "go r j cuku'qp'ugtyleg vq"qyj gtu'cpf 'y qtnkpi 'vq'o cm

Data Collection Methods

Rctvlekr cpwu'y gtg'lpvxkgf 'xlc'vgzv.'go ckn'y qtf/qh'o qwj . cpf "uqekcn'o gf kc"vq'r quv'y gk
y kf rkhg'lpvgtcevkpu'vq'yj g'Hcegdqqmfi tqwr 0Rctvlekr cpwu y gtg'cungf "vq'uj ctg'pcttcvkgu.'r j qvqu.
xkf gqu."qt'cwf kq'hkgu'cpf 'r tqo r vgf "vq'tghngev'qp vj g'go qvqpcn'gzr gtlgpegu'qh'yj gk'y kf rkhg
lpvgtcevkpu0C"eqo o qp"dcttkgt "hqt"ekkl gp'uekgpeg tgugctej "ku'uwvckpgf "gpi ci go gpv'cpf
eqo o ko gpv'qh'r ctvlekr cpwu"Rcrgeq'gv'cn0"4243+0Y g'clo "vq'cf f tguu'vj ku'ej cmgpi g'd{ "qhgtkpi
o wvkr ng'r tqlgv'gpv{ 'r qkpu'cu'y gm'cu'o wvkr ng y c{ u'vq'r ctvlekr cvg'cvf khgt gpv'ngxnu'qh
eqo o ko gpv'lp'yj g'Hcegdqqmfi tqwr "Rcrgeq'gv'cn0"4243+0Gzco r ngu'qh'r ctvlekr cvkqp'dg{ qpf
r qukpi 'kpenmf g'lpvgtcevkpi 'y kj "qyj gt'r quu'vj tqwi j rkgu'cpf "eqo o gpv.'y vcej kpi 'rkxg'utgco
xkf gqu'j quvgf "d{ 'vj g'tgugctej gtu."cpf "tghgtkpi "qyj gt r ctvlekr cpwu'vq'yj g'i tqwr 0F cvc"eqmgevkap
dgi cp'qp"Qevqgdg"36."4242"cpf "eqpenmf gf "qp"Cr tkn36. 42430

Data Analysis

Cp"guugpvkcnr ctv'qh'qwt'f cvc"cpcn{ uku'o gj qf "ku'eq/etgcvkap. y j lej "cmqy u'qwt'uwf { "vq
dvkrf "c'tlej 'pcttcvkg'dgvy ggp'vj g'r ctvlekr cpwu'cpf vj g'tgugctej gtu"D3/pkuj /Dtgf plej ."423: +0
D3/pkuj /Dtgf plej "go r j cuk gu'vj cv'wpeqpxgpvqpcn'o gj qf u qh'pcttcvkg'gyj pqi tcr j { "ctg'kp
vpuqp'y kj 'vj g'pggf "hqt"gyj pqi tcr j le'tgugctej "vq dg'cnmp"ugtqwan{ "cu'c"uqekcn'uekgpeg
*D3/pkuj /Dtgf plej ."r 0; ."423: +0Y j kg"{ gv'c"pcttcvkg dguv'ecr wtgu'vj g'go qvqpu"gzr tguugf "d{
r ctvlekr cpwu'tgi ctf kpi 'vj gk'y kf rkhg'lpvgtcevkpu. cpf "ku'o quv'twg"vq'yj g'pcwtg'qh'ugpvkgpeg0
Hwtj gto qtg."qwt'o gj qf u'hqmny "cp'lpwvkvkg'cpcn{ uku cr r tqcej "cu'qr r qugf "vq'cpcn{ vkecn'eqf kpi
qh'yj g'f cvc0D3/pkuj /Dtgf plej "chko u'vj cv'y j kg"okvku'vgo r vpi "vq'wtp'uvqtkgu'lpvq'f cvc"cpf
f gxcnwg'vj g'cev'qh'f ggr "kvugpkpi "cpf "pcttcvkg'eqpvgo r rkvqp.ö vj g'r tqeguu'qh'qtf gkpi "uvqtkgu
lpvq'pcttcvkgu'ku'dguv'i vkf gf "d{ 'c"s wcrkvkg'cr r tqcej vj cv'f qgu'pqv'mug'vj g'go qvqpu'lp'yj g

r ctvkr cpvau'uvqtkgu'd{ 'f kuugevki 'vj go '*D3pkuj /Dtgf plej . 'r 032."423: +0Qwt"cpcn{ uku'go r j cuk gu
kpwkxg'y kuf qo u'y j kg'go r mq{ kpi 'tgugctej "eqpxgpvkp y j gp"cr r tqr tkvg0

Vj g'f cv'y cu'cuuguugf "wukpi "c'ugtkgu'qh's wrkcvkxg s wgunkqpu'vj cv'eqpukf gt'vj g'go qvkpu
cpf "ugpvkpeg"dgj kpf "vj g'uwo kvgf 'r j qvqi tcr j u.'xkf gqu. cpf "cwf kq'tgeqtf kpi u0S wgunkqpu'vj cv
i vkf g'qwt "f cv'cpcn{ uku'kpenwf g<y j cv'v{ r g'qh'y kf cpko cn'ku'uj qy p'AY j cv'ku'vj g'eqpvz v'qh'vj g
r j qvq'AY j cv'f qgu'vj g'eqo r qukkqp'qh'vj g'r j qvqi tcr j uc{ "cdqw'vj g'tgrvkqpuj kr "dgwy ggp'vj g
r gtuqp"cpf "vj g'cpko cn'AY j cv'ecr vkpu'cpf "uvqtkgu'ctg kpenwf gf AY j cv'go qvkpu'f'vj g

ercko "v'j ku'ur ceg0Vj g'lvgtcevkpu'dgy ggp'j wo cpu'cpf 'v'j gug'eq/kpj cdkcpw'qh'v'j g'r rcpgv
v'j gtgd{ 'hqt o 'v'j g'eqo o wpk{ 'qh'v'j g'Gctv'j 0Vq'r tqvgev'v'j ku'eqo o wpk{ 'cpf 'o cng'k'utqpi gt. 'k'ku
guugpvkn'v'j cv'y g'hmn{ 'go dtceg'v'j g'go qvkpu'uj ctgf dgy ggp'j wo cpu'cpf 'pqp/j wo cp'cpko cnu
y j gp'y g'lvgtce0Ugpkpi 'hgnkpi u'cpf 'go qvkpu'dgy ggp dgkpi u'etgcvgu'v'j g'qr r qtwpkv{ 'v'dwkrf
pqv'qpn{ 'cy ctgpguu'qh'gcej 'qv'j gt ai'ugpvkpeg. 'dwcnuq' o gcpkpi hwn'tgrvkpuj kr u'y j kej 'ecp'ur wt
r gqr ng'v'j 'cng'cevkpp'v'j r tqvgev'cpko cnu0Y g'j qr g v'j tqwi j 'qwt'tgugctej 'y g'y kn'dg'cdng'v'j r wn
v'j gug'gzr gtlgpegu'qww'qh'v'j g'r ctvlekr cpw. 'cpf 'd{ cmqy kpi 'v'j go 'v'j r qwt'v'j gkt'go qvkpu'lv'j
tghngevkpu. 'w'pf gtucpf 'j qy 'v'j gug'hgnkpi u'ecp'upqy dcmkpv'eqpugtxcvkpp'ghqtu0

Results

Dgecwug'c'pqp/tepf qo 'eqpxgplgpeg'uco r ng'y cu'wugf. v'j gtg'ku'c'tgrv'kxgn{ 'f'kxgtug'i tqw'qh
r ctvlekr cpw'lv'j ku'uwf {0Vj gtg'y gtg'c'v'qwn'qh 66'r ctvlekr cpw'lv'j g'uwf {0Vj ku'lvpenf gf '44'j qo qucr lgpu
cp'44'pqp/j wo cp'cpko cnu'qh'xctkqwu'ur gelgu0Vj gug cpko cnu'ur gelgu'lvpenf gf 'c'y'qqr'genht. 'j wo r dcm
y j cng. 'upcr r kpi 'wt'ng. 'gm'drcen'dgct. 'y j cng. 'ugcn dwpp{. 'ugci wn'ugc'wt'ng. 'f ggt. 'o cmctf. 'dkuqp. uy cp.
I d' q'w'v'k'p' i qcv. 'v'v'k'p' i qcv. 'Ä
y j \$#g44 f r g. 'c" '4 r \$ g. 'Vpk_ u"O

O gfk'V{r g	
Rj qvq	39
Xlf gq	5
P qpg	3
Eqmgi g'Cwgpf gf	
Dquqp'Eqmgi g	35
Qvj gt	6

Trends

Trend 1: Key words about animal sentience

Dgecwug'uwwf lgu'kp'vj ku'ctgc'qh'tgugctej 'j cxg'kpxgunki cvgf j wo cp'cempqy ngf i go gpv'qh cpko cni'ugpvkpeg.'c'ej qugp'vj go g'ht'cpcn'uku'y cu vj g'wug'qh'vj g'y qtf 'ugpvkpeg'qt'c'tgrvfg cempqy ngf i go gpv'qh'pqp/j wo cp'cpko cni'go qvqp'y kj kp vj g'f'guetkdgf 'kpvgtcevqp0Hqwtvggp.'qt 85085' . 'qh'vj g'r ctvkr cpw'eqo o gpvfg 'qp'vj g'r gtekgxf go qvqpu'qh'vj g'cpko cni'qt'cpko cni'vj g{ gpeqwpvgtgf 0Vj g'uwwf { 'y cu'cm quv'gpvkn' 'eqo r qugf qh'hgo cmg'j wo cp'r ctvkr cpw'y j kej 'o c{ eqttgrv'q'vj g'o clqtk' 'qh'r ctvkr cpw'o cni'pi 'ugpvkpeg/tgrvfg eqo o gpw0Eqtpkuj 'cpf eqmgi wgu'hqwpf 'vj cv'hgo cmg'y gtg'o qtg'rkng' 'q' gpi ci g'go qvqpcm' 'y kj 'pqp/j wo cp'cpko cni *Eqtpkuj 'gv'cn0'423: +0J qy gxgt.'pq'r ctvkr cpw'gzr rckn' wugf 'vj g'y qtf 'ugpvkpeg'kp'vj gkt pcttcvkg0Vj gtghqtg.'eqo o gpw'qp'cpf 'tgrvfg 'q'r gtekgxf go qvqp'cpf 'ur kkwcn'kpvgtur gelgu eqppgevqp'y gtg'eqpukf gtgf 'wvf gt'vj g'vj go g'qh'ugpvkpeg0

Trend 2: Key words about human emotional experience

Vj tgg'qh'vj g'44'r ctvkr cpw'*35085' +y j q'ngw'pcttcvkg r quw'tgr qtvgf 'hggkpi 'go r cvj { hqt'cpqt#

j wo cp'lpvgtcevkqpu'y kj 'y kf rkhg'cpko cni'cpf 'yj gk'j cdkcwoVj gtg'y gtg'ugxgtenr ctvlekr cpwu'y j q
kpf lecvgf 'yj cv'y g{ 'hgn'cr r tgj gpukxg'qt'hgcthwi'cdqww yj gk'lpvgtcevkqpu'y kj 'y kf 'cpko cni'Vj tgg
r ctvlekr cpwu'qh'y g'44'vqcnl'kpf lecvgf 'yj cv'y g{ 'hgn'pgtxqwu'qt'hgcthwi'ctqwpf 'cpko cni'dw'y q'qh
yj g'y tgg'tgr qtvgf 'wko cvgn' 'j cxkpi 'r qukkxg'hgnkpi u cdqw'yj g'lpvgtcevkqpu0

Trend 3: Transformative effect of experience

Dgecwug'r tgxkqwu'uwf lgu'umi i guvgf 'yj cv'r gtuqpcn'gZR gtlgpegu y kj 'y kf rkhg'j cxg'yj g
r qy gt'vq'ej cpi g'j wo cpu'r gtur gevkgu'cpf 'cevkqpu'vqy ctf qyj gt'ur gekgu.'yj g'tgugctej gtu
kpxguki cvgf 'yj g'v'cpuhqto cvkxg'pcwtg'qh'yj g'r ctvlekr cpwu) gZR gtlgpegu'*Nctuqp'g'v'cni'4238=
F qrd{ .4242="Ueqw'g'v'cni'4242-0"Qh'yj g'44'f guetkr vkg pcttcvkgu.": 'r ctvlekr cpwu*5808' +
gZR rlekn{ 'f guetkdgf "c'v'cpuhqto cvkxg'ghgevt'qo yj gk'gZR gtlgpeg'y kj 'y kf rkhg.'9'r ctvlekr cpwu
*530: ' +lpenmf gf 'pq'tghgtgpeg'vq'c'v'cpuhqto cvkxg'ghgevt'qh'yj gk'gZR gtlgpeg.'cpf 'yj g'tgo clkpi
9'r ctvlekr cpwu*530: ' +lpenmf gf 'ko r rlekn'tghgtgpegu vq'yj g'gZR gtlgpegu'eqpvt'kdwkq'vq'yj gk'pgy
r gtur gevkg0Ukz'qh'yj g'gki j v'v'cpuhqto cvkxg'gZR gtlgpegu kpxqkxgf "c'j wo cpw'lpvgtcevkq'p'y kj 'c
ur gekgu'yj g'r ctvlekr cpv'f qgu'pqv'ugg'qt'lpvgtcev'y kj qp'c'tgi wxt'dcuku0Cu'yj ku'tgugctej 'y cu
eqpf wevgf 'lp'yj g'o kf uv'qh'yj g'EQXKF/3; 'r cpf go le.'vy q qh'yj g'gZR rlekn{ 'v'cpuhqto cvkxg
gZR gtlgpegu'lpenmf g'tghgtgpegu'vq'yj g'ko r qtvcpeg'qh'eqppgevkq'p'y kj 'qyj gt'ur gekgu'f wtkpi 'yj ku
r gtlqf 'qh'kuqrc'vq'0'Hkxg'qh'yj g'gki j v'v'cpuhqto cvkxg'gZR gtlgpegu'lpenmf gf 'gZR rlekn'tghgtgpegu'vq
r gtuqpcn'cevkq'vqy ctf 'eqpugt'xc'vq'0'Qpg'v'cpuhqto cvkxg'gZR gtlgpeg'j gir gf 'c'r ctvlekr cpv'hgn
r gtuqpcn{ 'eqppgevgf 'vq'y kf rkhg'0'Vj gtg'y cu'cp'qxgty j gm kpi v'gpf 'lp'r ctvlekr cpwu'gZR gtlgpegu
ecwulpi 'tghgevkq'qp'o wkur gekgu'eqgz'kugpeg0'Qh'yj g'eqo dkgf '37'gZR rlekn{ 'cpf 'ko r rlekn{
v'cpuhqto cvkxg'gZR gtlgpegu.": 'lpenmf gf 'c'tghgevkq qp'eqgz'kugpeg'cpf 'yj g'gh

Vj g'9'r ctvkr cpw'y j q'f kf "pqvtgr qtv'qp'vj g'tcpuhqto cvkxg'pcwtg'qh'vj gk'y kf rkg'g'zr gtlkpegu
uj qy gf 'hgy 'eqo o qpcrkkgu0"Vj g'ur gekgu'gpeqwpvgtgf cpf 'mcecvkqu'qh'vj gug'pcttcvkgu'y gtg
xctkgf 0Qpg'r ctvkr cpv'r qpf gtu'y j { 'c'upcr r kpi 'wtvrg tgwtpu'v'vj gk' { ctf "qp'cp'cppwcn'dcuku0
ōJ gtgā'o { 'vj qwi j v'ō c { dg'uj g'ej qqugu'qwt'my p'dgecwug y g'j cxg'vj g'qpn' 'pcwtcn'ry p'kp'vj g
pgki j dqtj qqf #AP q'htvkr gt0P q'r guvkr gu0P q'cp { vj kpi ō Cpqj gt'r ctvkr cpv'tgo ctngf "qp'c
ugcn'cdkrk' { 'v'eqgzkv'y kj 'j wo cpu'kp'Nc' Lqmc<ō'Kuy co 'kp'vj g'y cvgt'cpf 'y cu'j qpgun'
uwr tkugf 'd { 'vj g'ugcn'rcni'qh'j quvkrk' { 'cpf 'uggo kpi n' f lutgi ctf 'hqt'j wo cpu'uy ko o kpi 'kp'wej
enug'r tqzko kv.ō0"Vj g'r ctvkr cpw'ctg'cdng'v'cempqy ngf i g cpf 'tghgev'qp'vj gk'g'zr gtlkpegu'y kj
qjy gt'ur gekgu.'dw'f q'pqvtgr qtv'cp { 'gxkf gpeg'qh'c ej cpi gf 'cvkwf g'qt'r gtur gevkg'hqmuy kpi 'vj g
kpgtcevqp05"qh'vj g'9'r ctvkr cpw'vj cv'f kf "pqvtgo ctm'qp'tcpuhqto cvkqp'ctg'uwf gpw'qh
Gpxkqpo gpv'cn'Uwf kgu0

Trend 4: Species Type

Qh'vj g'44'f guetkr vkg'pcttcvkgu.'35'r quu'*7; Ō; ' +hgewugf "qp'cp'kpgtcevqp'y kj 'c
vj tgcwpgf "qt'tctg'ur gekgu'vj cv'vj g'r ctvkr cpv'f qgu pqv'eqo o qpn' 'gpeqwpvgt'kp'vj gk'gxgt { f c {
rkg0Vj gug'ur gekgu'kpenf gf 'c'ugc'rkqp.'j wo r dcemy j crgu.'dgctu.'cp'gm'c'f ggt.'ugc'wtvrgu.'dkuqp.
o qwpvcp'i qcvu.'c'vgtter kp.'ugcn.'uy cpu.'cpf 'c'wtvrg { 0Qh'vj gug'35'r quu'hgcwtkpi 'kpgtcevqpu
y kj 'tctg'cpko cnu.'8'r quu'*68Ō7' -'cniq'g'zr rckm' f guetkdgf "c'tcpuhqto cvkxg'ghgev'qp'vj g
r ctvkr cpv'tqo 'vj g'gpeqwpvgt0Qpg'r ctvkr cpv'uckf vj gk'kpgtcevqp'y kj 'c'ugc'rkqp'tgchko gf
vj gk'o qvxcvqp'v'r tqgev'y kf rkg'cpf 'hcxg'cpko cnu crpg'ōv'f q'vj gk'vj kpi ō Cpqj gt
r ctvkr cpv'y cu'tgo kpf gf "qh'vj g'ko r qv'peg'qh'eqpugt'xcvqp cpf 'vj g'eqgzkv'peg'qh'j wo cpu'cpf
pqpj wo cp'cpko cnu'chgt'vj gk'kpgtcevqp'y kj 'uy cpu0O qtgqxt.'y q'r ctvkr cpw'vj cv'y tqg
cdqw'vj gk'kpgtcevqpu'y kj 'j wo r dcen'y j crgu'f guetkdgf vj g'gpeqwpvgtu'cu'o cnkpi 'vj go 'tghgev
qp'vj g'j wo cp'ko r cev'qp'vj g'gpxkqpo gpv'cpf 'vj g'etvgn'v'gco gpv'qh'y j crgu'kp'ecr v'kv'.'cpf

f guetkdgf 'hggrkpi 'kpur ktgf 'v'eqpvkpwg'yj gk'eqpugtxcvkqp'ghqtu0Qh'yj g'; 'r quu'hgcwtkpi
kpvgtcevkqpu'y kj 'o qtg'eqo o qp'cpko cnu.'4'r quu'*4404' +cnuq'f guetkdgf 'c'tcpuhqto cvkxg'ghgev
qp'yj g'r ctvlekr cpv'htqo 'yj g'gpeqwpvgt0Vj wu.'pcttcvkxgu cdqw'gpeqwpvgtu'y kj 'tctg'cpko cnu'y gtg
409'ko gu'o qtg'rkgnf 'v'f kuewu'c'tcpuhqto cvkxg ko r cev'yj cp'gpeqwpvgtu'y kj 'eqo o qp'cpko cnu0
c0 35'qh'yj g'44'r quu'*7; 0; ' +cnuq'kpenf gf 'c'tghgevkkp qp'eqgzkvgep.'yj g'j wo cp'ko r cev
qp'yj g'uwtxkcn'qh'yj g'ur gekgu.'cpf lqt'yj g'ghgevqh'j wo cp'qt'pqpj wo cp'cpko cnu'r tgupeg
cu'c'r quukdr'f kuwtdcepeg'v'yj g'qyj gt0Qh'yj g'6'r quu yj cv'heuwgf "qp'eqgzkvgep.'cml'qwt
*322' +y gtg'eqppgevgf 'v'kpvgtcevkqpu'y kj 'tctg'cpko cnu0k'qp'g'r quv'cdqw'o qwpvckp
i qcu.'yj g'r ctvlekr cpv'uj ctgf 'yj cv'yj g'gizr g'kgep o cf g'yj go "otgcrk' g'yj cv'j wo cp'dgkpi u
eqgzkv'y kj 'cpko cnu'cu'y g'uj ctg'yj g'uco g'gctvj 'y kj yj go 0'k'cpqyj gt'r quv.'c'r ctvlekr cpv
yj cv'kpvgtcevgf 'y kj 'dkuqp'gizr m'kpgf 'yj cv'yj g'gpeqwpvgt o cf g'yj go "0vj kpm'yj cv'eqgzkvgep
y kj 'cpko cnu'ku'r quukdr'0'Qh'yj g'8'r quu'yj cv'f gcnv y kj 'yj g'j wo cp'ko r cev'qp'pqpj wo cp
cpko cnu.'5'qh'yj g'8'*72' +r quu'y gtg'eqppgevgf 'v' tctg'ur gekgu0Qpg'r quv'cdqw'ugc'wt vgu
tgo kpf gf 'c'r ctvlekr cpv'cdqw'0vj g'ko r cev'yj cv'j wo cp

cpko cnu'uj ctkpi "c'ur ceg0J qy gxgt."qh'vj g'35'r quu'vj cv'tghngevgf "qp'vj gug'vqr keu'cu'y gmi'cu
eqgz kugpeg."; 'r quu'"8604: ' +y gtg'htqo 'kpgtcevkpu y kj 'tctg'cpko cnu0

Trend 5: Composition of Photograph

J qy 'f kf 'r tqzko kv "chgevj" qy 'vj g{ 'hgn'cdqw'vj g'cpko cnAF kf "k'gxqng'tgur gev.'hgctA

c0 Y qqf r gengt <öJ g'f kf pø'uggo "vq'o kpf "o g'uvcpf kpi 'uq enqug.'s wkwñ "o guo gtl gf "y j kg

y cvej kpi 'j ko 'j cr r kn "y qqf dqt kpi "cy c{ =j g'uggo gf 'tcvj gt r tqwf "vq'uj qy 'qh'h'j ku

r qy gt/r genkpi "cdkklgu0K hgn'vj cv'vj ku'y qqf r gengt cewcm "hknf "vj g'cwf kgpeg.'uq"K

hqmqy gf 'j ko "cpf 'hko gf 'j ko "y j kg'pco kpi 'j ko "Y cngtö

cemcstf -cbio cird
d0 Gm'okj gannu qpquv'f kgev'g zr g'ej kpi 'j ko 'j cr r kn "y cewcg0

- k0 ðVj g'o quv'tgo ctædrg'gZR gtlgpeg'y cu'y kj 'c'i tqwr 'qh'y j crgu'y j lej 'eqo g
 vj tqwi j 'qwt'y cvgtu'kp'O ctej 'cpf 'Cr tkn'gcej '{ gct0Uggkpi vj gug'j vi g'cpko cnu
 tgcml 'r wu'j qy 'uo cm'y g'ctg'kpva'r gtur gevkgö
- k0 ðVj gtg'y g'f tkhgf 'y j kg'dgkpi 'uwtqwpf gf 'd{ 'J wo r dcemu hqt 'yj tgg'j qwtuö
- g0 UgcndöCv'j ku'eqxg'qp'vj g'y cvgt.'o cp{ 'ugcni'i cvj gtgf ctqwpf 'v'uwpcvj g0Kuy co 'kp'vj g
 y cvgt'cpf 'y cu'j qpguw' 'uwr tkugf 'd{ 'yj g'ugcnu'ixemqh'j quv'kv' 'cpf 'uggo kpi n' 'f kutgi ctf
 hqt'j wo cpu'uy ko o kpi 'kp'uwej 'emug'r tqzko kv'0Vj g'ugcnu y gtg'uwpcvj kpi . 'uy ko o kpi .
 erko dlpi 'qp'vj g'tqemu.'gplq{ kpi 'yj g'uwpcvj . 'gei ' 'Ky cu ucpf kpi 'uwr gt'emug'v'v' q'ugcnu
 y j q'uggo gf 'v'i gv'kp'cp'cti wo gpv'y kj 'gcej 'qvj gt '{ gvf kf 'pqv'gxgp'dcv'cp'g{ g'cv'o g0
 Rtgw' 'pgcv'j qy 'ceewuqo gf 'cpko cni'ecp'i gv'v' dgkpi pgct'j wo cpuö
- h0 Dwpp{ <ðK'y cupø'o qxkpi 'cv'cm'gxgp'y j gp'Keco g'emug v'k' 'cpf 'k'y cupø'drkpkpi lka
 g{ g'y cupø'o qxkpi 0Kdgi cp'v'i gv'y qttkgf 'cpf 'eqpukf gt vj g'r quukdkv' 'vj cv'vj g'dwpp{ 'y cu
 htq' gp'v'f gcvj . 'y j lej 'uectgf 'o g'cpf 'o cf g'o g'hggnuq'uqtt{ 'hqt'k0Ky qwr 'pqv'eqpukf gt
 o { ugrh'cp'cpko cni'qxtg'd{ 'cp{ 'o gcpu.'cpf 'pqto cm' co 'o qtg'chtckf 'v'i gv'emug'v'cp{
 y kf 'cpko cni'0Rgtj cr u'vj g'hcev'vj cv'vj ku'dwpp{ 'y cu uq'f ghpugruu'ku'y j cv'o cf g'o g'pqv
 hgn'vj tgcvgpgf 'd{ 'k'dw'tcvj gt'vj kpkpi 'qh'y c{ u v'v' 'v'j' gr 'kö
- i 0 F ggt<ðKmqmgf 'qwukf g'vj g'y kpf qy 'qh'o { 'j qwug'cpf ucy 'c'f ggt'uuctkpi 'cv'o g'cpf
 uqo r kpi 0K'y cu'c'tgcm' 'co c' kpi 'gZR gtlgpeg'v'ugg vj g'f ggt'tgeqi pk g'cpf 'kpvgtcev'y kj
 o gö
- j 0 Dkuqp<ðQp'o { 'y c{ 'yj gtg.'Kuvqr r gf 'o { 'ect'v'vcng c'mqm'cv'vj ku'i tqwr 'qh'dkuqp0K
 y cvej gf 'vj go 'hqt'c'y j kg.'cpf 'gplq{ gf 'dgkpi 'kp'vj gk r t gugpeg0Vj g{ 'f kf pø'uggo 'v'
 pqv'eg'o g'cpf 'y gpv'cdqvw'vj gk'f c{ 'i tel kpi 'cpf 'y cm'kpi ctqwpf ö

10 I qcvu<ōKi qv'c'dk'pgrxqwu'cu'yj g{ 'eco g'emug'v'w'u'v'etquu'vj g'r cvj 0Vj g{ 'f'k' 'pqv'uggo vq'o kpf 'yj g'fcev'vj cv'vj gtg'y gtg'r gqr rg'cni'cmipi 'yj g'r cvj . 'cu'iqpi 'cu'y g'f'k' 'pqv'i gv'vqq enqugō

10 Ugc'Nkqp<ōQp'qpg'gزر gf kkp'y g'gpeqwpvgtgf 'c'ugc nkqp'ur tcy rpf 'qp'c'dgpej 'tgukpi 0K uc'vqp'yj g'dgpej 'qr r qukg.'cdqw'8'hggv'cy c{0K'iqmgf wr . 'k' gp'v'k'kf 'o g'cu'c'pqp/yj tgcv cpf 'y gp'v'dcem'v'unggr 0K'eqwf pō'j grr 'dw'p'v'keg c'r gtuqpcrk' 'v'j ko . 'nk'j' qy '{ qw'hggny j gp' '{ qw'g'p'cr r kpi 'qp'yj g'eqwej 'cpf 'uqo gqpg'y cmu k'p'uq' '{ qw'iqm'vr 'dghqg'i two r kfi q'dcem'v'upqql kpi 0

67067' 'qh'r quu'tghgtgpegf 'j wo cp'r tqzko k' 'v'y k'f' r'kg ur geku0Ugxgtcn'qh'vj gug'r quu hgcwtgf 'cp'cur gev'qh'tgur gev'k'p'yj gk'o gp'v'k'pu'qhr tqzko k'0Vj ku'k'p'wtp'uj qy u'g'x'k'f' gpeg'qh eqgzkv'gpeg'k'p'yj gug'y k'f' r'kg'k'p'vgtcev'k'pu'vj cv'ku. r gqr rg'cpf 'cpko cni'uj ct'kpi 'c'ur ceg'r gceghm'0 Oqtgqxt. 'yj ku'uj qy u'r quk'x'g'uki pu'qh'c'y k'k'k'pi p'guu k'p'yj g'h'w'w'g'v'q'eqgzkv'y kj 'cpko cni'0Vj ku'ku c'ng{ 'h'p'f' kpi 'qh'qwt'tgugctej . 'cpf 'ku'c'xgt { 'r quk'x'g' k'p'f' k'c'v'k'p' 'y' cv'k'p'vgtcev'k'pu'y kj 'y k'f' r'kg'o c{ eqp'v'k'dwg'v'q'eqpugt'xc'v'k'p'qh'd'k'qf k'x'gtuk'0

Discussion

Trends in Keywords about Sentience

Vj g'vj go g'qh'ugp'v'gpeg'cpf 't'gr'v'g' 'ng{y qtf u'y gtg'xgt { r t'g'p'v'k'p'yj g'f'c'w' 'y' cv'y cu eqmgev'g'0K'p'ugcf 'qh'cun'kpi 'ur gek'k'ecm' 'cdqw'w'p'f' gtu'v'p'f' kpi 'cpf 'r' gtegr'v'k'p'qh'cpko cni'ugp'v'gpeg. qr gp's w'g'v'k'pu'y gtg'r qugf 'v' 'cm'qy 'r' ct'v'k'k' cpw't'q'qo v'q'uj ctg'r gtur gev'x'gu'cpf 'g'zr g'k'g'pegu h'gg'0E'qtp'kuj 'cpf 'eqm'g'ci w'gu'r w'd'k'uj gf 'ko r q't'v'p'v't'g'u'w'm'k'w'o k'p'c'v'k'pi 'y' g'f' go qi t'cr j k'e'v'g'p'f' u k'p'r gtur gev'x'gu'qp'cpko cni'ugp'v'gpeg'd{ 'u'w'x'g'f' kpi 'c' eqm'gev'k'p'qh'r ct'v'k'k' cpw'y kj 'ur gek'k'e s'w'g'v'k'pu'qp'cpko cni'ugp'v'gpeg'0E'qtp'kuj 'g'v'c'n'0'423: +0Vj g't'g'u'w'm'qh'vj ku't'gugctej 'd'w'k'f' 'w'r' qp'yj qug

hpf lpi u'd { 'kmwo kpcvpi 'vj g'xgt dci g'wugf 'vq'f guetkdg'pqp/j wo cp'cpko cni'go qvqpu'cpf 'ugpvkpeg
 cpf 'tghphqteki 'vj gk'tguwuu'tgi ctf lpi 'c'eqttgrvqp dgy ggp'hgo cngu'cpf 'go qvqpcr'eqppgevkp
 y kj 'pqp/j wo cp'cpko cni'Eqtpluj 'gv'cni'423: -0Hqwtvgg qh'vj g'y gpv{/wy q'r ctvkr cpw'y tqvg
 cdqw'vj g'r gtegxgf 'go qvqpu'qh'vj g'cpko cni'kp'uqo g ecr cekv { 'kpf lecvpi 'cp'cempqy rgi go gpv'qh
 pqp/j wo cp'cpko cni'ugpvkpeg0k'qy gt'y qtf u.'o qtg'vj cp j cni'qh'vj g'r ctvkr cpw'kpenmf gf
 eqo o gpw'tgrvpi 'vq'cpko cni'ugpvkpeg'y j gp'cungf 'vq uj ctg'c'pcttcvkg'cdqw'c'y kf rkhg
 kpvgtcevqp0vj gug'r gtegxgf 'go qvqpu'tcpi gf 'öecro ö vq'öci i tguukxgö'cpf 'vj g'r quw'kpenmf gf
 y qtf u'wej 'cu'gzekgf . 'tgrczgf . 'htwutcvgf . 'wpr j cugf . eqpvgr0Qh'vj g'r quw'vj cv'kpenmf gf 'vj gug
 ng{y qtf u'cpf 'ugpvko gpw.'vj g'ur geku'qh'vj g'cpko cntcpi gf 'htqo 'rjecn'dcem{ ctf 'dglpi u'vq
 kpvgtpcvqpcn'tctg'ur geku'kpf lecvpi 'vj cv'ur geku rkngr { 'j cf 'pq'ko r cev'qp'y j gj gt'qt'pqv'vj g
 r ctvkr cpv'kpenmf gf 'eqo o gpw'qp'ugpvkpeg0O cp { 'qh'vj g'ur geku'ctg'hqwpf 'kp'vj g'Wpkgf 'Ucvgu
 dw'rjcevqpu'cnuq'kpenmf gf 'Uy kj gtrpf . 'Dgto wf c. Dtc| kn'cpf 'vj g'I cnr ci qu0P qpg'qh'vj g
 r ctvkr cpw.'j qy gxgt.'wugf 'vj g'y qtf 'ugpvkpeg'kpf lecvpi 'vj cv'r gtj cr u'vj g { 'gztg'kpeg'cpko cn
 ugvkpeg'y kj qw'j cxkpi 'rgctpgf 'cdqw'vj g'hqto cneqpegr 0F qnd { 'cti wgu'hqt'vj g'gzt cpukp'qh
 gpvktqpo gpvni'gf wecvqp'ur gekk'ecm { 'tgrcvgf 'vq'go r cvj { cpf 'cpko cni'ugpvkpeg'y j lej 'y g'cnuq
 tgeqo o gpf 'cu'o cp { 'r ctvkr cpw'y gtg'pqv'cu'y gmlphqto gf qp'eqpugtxcvqp'cpf 'vj g'go gti lpi
 rkgtcwtg'qp'ugpvkpeg'0F qnd { 'gv'cni'4242-0Gf wecvqp ur gekk'le'vq'vj ku'vqr le'dglpi 'i kxgp'r tkqt'vq
 eqpf wevpi 'c'uwf { 'uwej 'cu'vj ku'o c { 'j cxg'ko r rkecvqpu qp'tguwuu'cpf 'vgtö kqmqi { 'wugf 0

Trends in human emotion

Vj g'f cv'eqngevgf 'uj qy u'vj cv'j wo cpu'gztg'kpeg'c dtqcf 'tcpi g'qh'go qvqpu'y j gp
 kpvgtcevpi 'y kj 'vj g'rkv'gu'cpf 'ugpvkpv'ur kksu'qhy kf rkhg'cpko cni'0Y j gp'r ctvkr cpw'tgr qtvgf
 hgnrpi u'qh'go r cvj { 'hqt'pqp/j wo cp'cpko cni'vj g { 'hgnv'ytg'utwi i rpi 'kp'uqo g'y c { . 'vj g {
 o gpv'kpgf 'j qy 'vj g'cpko cni'utwi i ng'o cf g'vj go 'vj kmetk'ecm { 'cdqw'j wo cp'cpf 'pqp/j wo cp

cpko cnlkpvtcevkqpu'cpf lqt'eqpugtxcvkqp0Vj ku'kpf kpi 'tghngeu'vj g'y qtm'qh'*Y cmcej 'g'v'c'0'423: +
k'p'y j lej 'y g'cwj qtu'ucv'vj cv'uwo o qpkpi "eqo r cuukqp ku'ko r qtcv'v'y j gp'y kpnkpi "etk'k'ecm' "cpf
g'y kec'm' "cdqw'eqpugtxcvkqp0'k'p'v'gt'gukpi n' . 'y g'eqo r cuukqp ug'x'gt'cn'qh'vj g'r ct'v'ekr cp'u'h'gn
k'p'x'q'ng'f 'c'ug'pug'qh'f w'f 'v'q'eqpugt'x'g'vj g'k'x'gu'cpf y gm'd'g'kpi "qh'y k'f'k'h'g'cpko cnu'0'Vj g'o cl'q'k'k'f' "qh
r ct'v'ekr cp'u'g'zr t'gu'gf 'r qu'k'k'x'g'h'g'gn'kpi u'k'p'vj g'k' p'ct't'c'v'x'gu't'ge'q'w'v'kpi 'y g'k'g'zr g't'k'g'p'egu'y k'j
y k'f'k'h'g'cpko cnu'0'Vj ku't'g'p'f 'ku'g'z'ek'kpi "d'w'p'q'v'p'g'eg'uct'k'f' u'w'r t'k'k'pi 0'0 q't'g'q'x'g't.'u'w'ej 'h'k'p'f' k'pi u
c'h'k'to 'y c'v'ek'k' g'p'ue'k'p'eg'i t'q'w' u'r t'q'x'k'f' g'go q'v'x'g' g'zr g't'k'g'p'egu'y t'q'w'i j 'g'f'w'ec'v'kpi 'r ct'v'ekr cp'u'q'p
ko r q't'c'v'p'g'p'x'k'q'po g'p'w'c'n'v'q'r k'eu'*R'c'ng'eq'g'v'c'f'0'4243+0

Trends in Transformative Narratives

Vj g't'gu'w'u'h'q'w'p'f 'k'p'vj ku'uw'f { 'ct'g'eq'p'uk'v'ng'p'v'y k'j r t'g'x'k'q'w'u'uw'f { a'k'p'f' k'pi u'vj cv
g'zr g't'k'g'p'egu'y k'j 'y k'f'k'h'g'j' c'x'g'vj g'c'd'k'k'f' "v'q'o q'v'x'c'v'g' j wo cp'c'ev'q'tu'v'q'y c't'f' "go r c'v'j g'v'k'e'c'ev'k'q'pu
v'q'y c't'f' 'y k'f'k'h'g'c'p'f "c'h'g'ev'x'g'c'p'f "go q'v'k'p'c'n't'g'ur q'p'ugu v'q'y k'f'k'h'g'u'v'ko w'k'*N'c't'u'q'p'g'v'c'f'0'4238=
F'q'nd'f' . "42420N'c't'u'q'p'c'p'f "eq'ng'ci w'gu'h'q'w'p'f 'y c'v'g'zr g't'k'g'p'egu y k'j 'j' q'w'ug'ur c't't'q'y u'r qu'k'k'x'g'n'f'
c'h'g'ev'g'f' 'r ct'v'ekr cp'u'v't'g'c'w' g'p'v'q'h'vj g'ur g'el'gu.'y j lej ku'uw'r r q't'v'g'f' 'd' { 'y g'q'x'g't'y j g'm' k'pi 'r q't'v'k'p'
q'h'g'zr g't'k'g'p'egu'y c'v'q'w't'uw'f { 'h'q'w'p'f 'v'q'd'g'r ct'v'ek'w'c't'n'f' v't'c'p'uh'q'to c'v'x'g'0'F'q'nd'f' { 'h'q'w'p'f 'y c'v'y t'k'k'pi
cp'g'u'uc' { 'h't'q'o 'y g'r g't'ur g'ev'x'g'q'h'c'p'c'p'ko c'n'vj g' { 'j' c'f' r t'g'x'k'q'w'u'f' "q'd'ug't'x'g'f' "eq'p't'k'd'w'g'f'
u'ki p'k'h'c'p'v'f' "v'q'vj g'k'g'p'x'k'q'po g'p'w'c'n'g'f' w'ec'v'k'q'p'c'p'f' go r c'v'j g'v'k'e'eq'p'p'g'ev'k'q'p'v'q'c'p'ko c'nu'*F'q'nd'f' .
4242+0'Q'w't'uw'f { "eq'p't'k'd'w'gu'v'q'F'q'nd'f' { a'v'y q't'm'f' { 'uj' q'y ec'uk'pi 'y g'r q'y g't'q'h'g'zr g't'k'g'p'v'c'n't'g'h'ng'ev'k'q'p'
q'p'j' wo c'p'a'eq'p'eg'r v'k'p'pu'q'h'c'p'f "eq'p'p'g'ev'k'q'pu'y k'j "q'v'j g't' ur g'el'gu'0'H'k'h'g'g'p'q'h'vj g'44'*8: Ø: ' +
r ct'v'ekr cp'u'g'k'j g't'ko r r'ek'n'f' "q't'g'zr r'ek'n'f' "t'g'h't't'g'f' v'q'vj g'v't'c'p'uh'q'to c'v'x'g'p'c'w'w'g'q'h'vj g'k't'y k'f'k'h'g'
k'p'v'gt'cevk'q'p.'u'w'i i g'uk'pi 'y c'v'k'p'et'g'c'ug'f' 'h't'g's'w'g'p'e' { "q'h'j wo c'p/y k'f'k'h'g'k'p'v'gt'cevk'q'pu'j' cu'vj g'r q'v'g'p'v'c'n'
v'q'ko r t'q'x'g'v't'g'c'w' g'p'v'q'h'q'v'j g't'ur g'el'gu'0'"R'ct'v'ekr cp'v'38a'v'uc'v'go g'p'v'ec'r w't'g'f' 'y g'ug'p'v'ko g'p'v'q'h'
o c'p' { "q'h'vj g'i t'q'w' a'v'o go d'g't'u'c'v'Vj g' { 'y g't'g'x'g't' { 'ec'm' c'p'f' "ug'go g'f' "s'w'k'g'eq'p'v'g'p'v'l'w'v'j' c'pi k'pi "q'w'

qp'vj g'o qwpvcp0Vj ku'gZR gtlgpeg'o cf g'o g'tgcrk g'vj cv'j wo cp'dgkpi u'eqgzku'v'y kj 'cpko cnu'cu'y g
uj ctg'vj g'uco g'gctvj 'y kj 'vj go 0K'r ctvkwct.'tghgtgpegu vq'eqgzku'v'y gtg'j ki j n' r'tgxcrgp0
Vj ku'o c{ 'dg'f wg'vq'j wo cpai'f qo kpcpeg'lp'vj g'pcwctny qtrf . 'qhv'p'ngcf kpi 'vq'ugr ctcvq'p'qh
ur gelgu0'Y j gp'j qo q'ucr kpu'ctg'gpeqwtci gf 'vq'lpvgtcevy kj 'qvj gt'ur gelgu'lp'vj gkt'v' r'lecn
gpv'vj g' ctg'cdng'vq'f geqpuv'wv'vj g'f qo kpcp'vpcwctg/uqekv' 'kf gqni' lecn'f kxkf g0
Cempqy rgi i kpi 'vj g'xcnw'g'qh'o wnkur gelgu.'cu'lpvtqf wv'gf d{ 'cwj qtu'Mktmug{ 'cpf
J gm tglej *4232+.'kp'qwt'uj ctgf 'gpv'ku'c'etwecnuvgr 'vqy ctf u'lwuv'r tgu'gtxcv'kp' *Mktmug{
cpf 'J gm tglej . '4232+0' Cp'qxgty j gm kpi 'o clqtk'v' 'qh'vj g'gZR nek'v' 't'cpuhqto cv'xg'gZR gtlgpegu
qeewt'gf 'dgy ggp'j qo q'ucr kpg'cpf 'c'ur gelgu'vj g' lpvgtcevy kj 'tctgn'0'Vj ku'o c{ 'uwi i guv'vj cv
ur gelgu'lpvgtce'v'p'v'ctg'o qtg'r qy gthw'vj j gp'vj g' 'eqv'vcuv'v' r'lecn'lpvgtce'v'p'v'0'Hqt'gzco r'ng.
Rctv'ekr cpv'4'y tqv'g'cdqw'vj gkt'gZR gtlgpeg'y kj 'j wo r'dcemy j crgu'0'Vj g'f c{ 'y cu'qpg'Ky km
hqtgxgt'tgo go dgt'y kj 'vj g'tcpuegpf gpv'uqwpf u'qh'y j crgu dtgcej kpi 'pgctd{ 'cpf 'vj g'tgcrk'v' 'qh
y j cv'y g'xg'f qpg'vq'vj gug'y cvgtu'ukp'kpi 'lp.0'Vj g r'ctv'ekr cpv'tgr qtv'gf 'vj cv'vj g'gZR gtlgpeg'j cf 'c
f'ktgev'lo r'cev'qp'vj gkt'y qtm'cpf 'eqv'tkdw'k'p'vq'eqpugt'xcv'kp'v' kpk'cv'xgu'0' Cf'f'k'k'q'p'cm{ . 'ej ctkuo cv'le
gZR gtlgpegu'y kj 'cpko cnu'o c{ 'j cxg'vj g'r'qv'p'v'cn'vq' dg'o qtg't'cpuhqto cv'xg'0'Rctv'ekr cpv'33
eqppge'v'f 'y kj 'c'f'gg'0'K'v'dtqwi j v'o g'emugt'vq'y kf'rhg' cpf 'K'hn'o qtg'eqppge'v'f 0'K'v'ngcf 'qh'lwuv
qdu'gt'x'kpi 'vj ku'cpko cnu'qo 'vj g'lpv'kf'g.'Ky cu'cewcm{ o c'kpi 'g'g'eqp'cev'cpf 'dgkpi
cempqy rgi i gf 'd{ 'vj ku'f'gg'0'J wo cpu'o c{ 'dg'o qtg'eqppge'v'f cpf 'o q'v'x'cv'gf 'vq'r tqv'gev'ur gelgu
vj cv'gzj kdk'j wo cp'rhg'hcw'wt'gu'0'Vj g't'gu'w'u'uj qy vj cv'vj gug'lpvgtce'v'p'v'ctg'lo r'qt'v'p'v'hqt
kpv'tqf wv'kpi 'o wnkur gelgu'eqppge'v'k'p'cpf 'ug'p'v'k'peg'0 Vj ku'uwf { 'y cu'ur gel'k'lecm{ 'lpv'gt'g'v'gf 'lp'vj g
gh'gev'qh'vj gug'lpvgtce'v'p'v'qp'r'gtur ge'v'x'gu'qh'eqpugt'xcv'kp'v'j qy gxgt. 'qpn{ 'h'x'g'gZR gtlgpegu'j cf 'c
f'ktgev'v' r'qu'k'x'g'lo r'cev'qp'vj g'r'ctv'ekr cpv'v'eqpugt'xcv'kp'v' kpk'cv'xgu'0'Vj gug't'gu'w'u'uw' i guv'vj cv
vj gtg'ku'c'ecw'ucn'gh'gev'qh'y kf'rhg'lpvgtce'v'p'v'qp'j wo cpai'r'gtur ge'v'x'gu'qp.'go q'v'k'p'v'uj ctgf 'y kj .

tgugtej 'hqt cv'etgcv'cp'k'pvtcevxg'cpf 'o gcpkpi hwi'gZR gtlgpeg'hqt'yj g'r ctvkr cpw. 'k'ecp'dg
kpetgf kdn' 'tcpuhto cvxg'hqt'yj g'tgugtej gtu'cu'Tlej ctf uqp *4223+'j ki j rki j w'cpf 'f'kuewugu'cv
ngpi yj 'kp'j gt'y qtn0Cffkkqpcmf. 'wukpi 'c'pqp/tcpf qo eqpxgpkpeg'uco r ng'etgcvf 'c'f'kxgtug
r ctvkr cpv'dcug0Vj g'r ctvkr cpv'r qqr'ku'eqo r qugf qh'cm'ci gu'qxgt'yj g'ci g'qh'3: . 'dqyj 'eqmgi g
cpf 'pqp/eqmgi g'uwf gpw. 'cpf 'c'o kz'qh'Dquvq'Eqmgi g cpf 'pqp/Dquvq'Eqmgi g'eqo o wpkf
o go dgtu0J cxkpi 'c'f'kxgtug'i tqwr 'qh'r ctvkr cpw'r tqxkf gf c'y kf g'tcpi g'qh'k'pvtg'w'lp'y kf rkg.
r gtur gevkgu. 'cpf 'gZR gtlgpegu'y kj 'y kf rkg0Wukpi Hcegdqnm'cu'yj g'ej qugp'r r'v'hto 'hqt
eqpf wvki 'y ku'tgugtej 'cmqy gf 'yj g'r ctvkr cpw v' hqugt'eqppgevkpu'y kj 'gcej 'qyj gt'cpf 'yj g
tgugtej gtu'k'pugcf 'qh'dgkpi 'dnkf 'v'y j q'vj g'qyj gt r ctvkr cpw'y gtg0Vj ku'wps wg'qprkg
r r'v'hto 'r tqxkf gu'c'pgy 'eqv'kdwkq'v'eqo o wpkf dwkf kpi 'kp'eqpf wvki 'gy pqi tcr j le.
pcttcvxg'tgugtej 0Vj g'tgugtej gtu'r qugf 'gf wecvkpcnxf gqu'qy ctf u'yj g'gpf 'qh'yj g'f'cv
eqmgevq'p'r tqegu'v'k'p'hto 'yj g'o go dgtu'qh'yj g'i tqwr qh'yj g'tgcuqpu'hqt'yj g'tgugtej 'cpf
gZR r'k'kpi 'hg' { 'eqpegr w'lp'yj g'pqp/j wo cp'cplo cntgugtej ur ceg0Vj ku'cmqi 'y kj 'yj g'k'p'wukq
qh'r gtuqpcn'pcttcvxg'ku'lp'yj g'o cpwetr v'cmqy gf 'yj g' tgugtej gtu'v'eq/etgcv'yj kj 'yj g'r ctvkr cpw
cpf 'gcej 'qyj gt'yj tqw j 'yj g'eqv'kdwkq'qh'r gtuqpcncpgef qv'gu0Ukwc'kpi 'yj g'tgugtej gtu'yj kj k
yj g'pcttcvxg'ur ceg'cu'qr r qugf 'v'c'r w'g'qdugtxcv'kpcncpf 't'gkgtcvxg'tqrg'ku'y j cv'o cngu
pcttcvxg'tgugtej 'cpf 'gy pqi tcr j { 'wps wg'cu'p'qygf d { 'D%pkuj /Dt'gf'plej '*423: +0Y j cv'ugw'qwt
uwf { 'cr ctv'ku'yj g'eqv'kdwkq'qh'qwt'xqlegu'lp'yj g' tgugtej 'ur ceg'v'gf wecv. 'k'p'hwpeg. 'cpf
go qv'cmqi ukf g'r ctvkr cpw'lp'v'wg'ugpv'k'p'v'hto 0Vj ku'uwf { 'y cu'rti gn' 'cp'qtki k'p'cntgugtej
o gy qf 'f'guki p'yj lej 'cmqy gf 'yj g'tgugtej gtu'v'ckqt yj g'r tqegu'v'ur gekk'f'gukt gf 'qweqo gu
cpf 'ko r necv'kpu'hqt'yj g'tgugtej gtu. 'r ctvkr cpw. cpf 'rti gt'h'gn' 'qh'y kf rkg'tgugtej 0

Limitations

Y j krg'vj g'f guki p'qh'vj ku'uwf { 'qhhgtgf 'o cp { 'dgpghku'v'vj g'tgugctej . 'vj gtg'ctg'ugxgten cur gew'vj cv'bo c { 'hko k'vj g'cdkxk { 'v'hqto 'f ghpkxkg'cpf 'i gpgtcrk cdr'eqpenwukpu0' Cnj qwi j gzvpukg'ghqtu'y gtg'vcngp'v'kpxkg'kpvgtguvf r ctvlekr cpw'v'vj g'i tqwr . 'vj g'uk' g'qh'vj g'uco r ng y cu'uqo gy j cv'uo cm'y kj 'qpn { '44'qh'64'v'v'cnj wo cp r ctvlekr cpw'uj ctupi 'vj gkt'g'zr g'kpegu'y kj vj g'i tqwr 0'Vj g'uo cm'uk' g'qh'r ctvlekr cpw'cmqy gf hqt'o qtg'gzvpukg'cpf 'kpenwukg'cpcn { uku'qh pcttcvkgu=j qy gxgt. 'vj g'uco r ng'bo c { 'pqv'dg'tgr t'gugpvcxkg qh'vj g'i tgcvt'j wo cp'r qr wv'kqp0 Cffkxqpcn { . 'vj g'uco r ng'y cu'qxgty j gm kpi n { 'hgo crg. y kj 'qpn { 'qpg'o crg'r ctvlekr cpw'0'Vj g'xcuv o clqtk { 'qh'r ctvlekr cpw'*99049' -'ctg'eqmgi g'uwf gpw0Uq. 'vj g'hpf kpi u'o c { 'dg'r tko ctkn { i gpgtcrk cdr'v'v' hgo crg'eqmgi g'uwf gpw0k'p'v'kpenwukgpguu cpf 'F kxgtuk { 'k'Ekkl gp'Uelkpeg.ö Rcrgeq'cpf 'eqmgi wgu'utguu'vj g'tqrg'qh'ekkl gp'uelkpeg k'r tqf wv'kpi 'hpqy rgi g. 'y j kej 'y g. 'cu t'gugctej gtu. 'etgcvg'vj tqwi j 'qwt'htco kpi 'qh'qwt'pcttcvkgu cpf 'vj g'r ctvlekr cpw'y g'kpenw' g'*Rcrgeq gv'cr0'4243+0k'p'vj g'r tqeguu'qh'qwt'tgugctej . 'qwt i tqwr 'j cu'go dtcegf 'uwlgevxg'g'zr g'kpege= j qy gxgt. 'k'ku'ko r qv'cpv'v'v'tgeqi pl' g'vj cv'qwt'kf gpv'v' cu'hgo crg'eqmgi g'uwf gpw'eqp'v'kdwgf 'v'c' nguu'vj cp'kpenwukg'uco r ng0Ncuw { . 'vj g'qr gp'gpf gf pcwtg'qh'vj g'r tqo r v'rgf 'v'f'khhgt'gpegu'k'p eqpv'gpv.'hko k'kpi 'vj g'tgugctej gt'v'ecr cek { 'hqt'f'kgeveqo r ct'kuq'qh'r ctvlekr cp'v'zr g'kpegu0

Implications

Vj tqwi j qw'qwt'uwf { . 'qwt'k'v'gp'v'kqp'y cu'v'v'hqewu'qp eqppge'v'kpi 'r gqr ng'ctqwpf 'vj g'kf gc'qh r tqge'v'kpi 'qwt'uj ctgf 'gpxk'qpo gp'0'Y g'clo gf 'v'k'puk'ncp'go q'v'k'p'nc'r r tqcej 'v'v'gh'ng'v'k'p'pu'qp y k'f'rh'g'k'p'v'gt'cev'k'p'pu. 'cpf 'd { 'uq'f'q'kpi . 'uj gf 'hki j v'qp'vj g't'gr'v'k'p'uj k' 'dgy ggp'r ctvlekr cpw'v' wpf gtu'w'cpf kpi 'qh'p'qp/j wo cp'c'p'ko cn'ugp'v'k'peg'cpf 'vj gkt qr k'p'k'p'pu'qp'eqpugt'xc'v'k'p'cpf dkqf kxgtuk { 0'Dcugf 'qp'qwt't'guw'u. 'k'p'y j kej 'r ctvlekr cpw' t'gcf kn { 'uj ctgf 'c'y k'f'g'x'ct'k'g'v' { 'qh vj qwi j v'v'v'pcttcvkgu'cdqw'vj gkt'g'zr g'kpegu'y kj y k'f'rh'g'v'j cv'go dtcegf 'vj gkt'go q'v'k'p'pu'cpf

eqo o wplv{ 'eqwf 'uwf { 'y j cv'y g'o quv'ghgevxg'y c{ u'ctg'vq'lpetgcug'cpf 'o clpvk'gpi ci go gpv
 co qpi 'r ctvkr cpw'y kj 'y gug'vqr leu0Hwwt g'tgugctej gtu eqwf "gzt rqtg'kh'uj ct'kpi 'ctvkr gu.
 Htgs wgpw{ 'eqo o gpvki 'cpf 'rknpi 'r quw.'r tqxkf kpi pgy 'r tqo r w'qt "qyj gt"eqpvgpv'tgi wctn{.'wukpi
 ðNkxgö'hgcwt gu'qt "qyj gt 'hcegu'qh'yj gug'uqekn'pgy qtnkpi r rlvhcto u'y qwf "dg'yj g'o quv'uweeguuhwn
 utcvgi kgu'vq'uwuxk'c"nqpi /vgtō "cpf 'vki j vmpk'eqo o wplv{ ctqwpf 'y gug'kf gcu0

References

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 Sociology*. 42*4+."383/39; 0

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 P cvkpu.'8'O c { '423; .
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Appendix A.

Recruitment and Informed Consent Message (Sent to participant after joining the Facebook group)

Vj cpm{ qwhqt "{ qwt 'kpvgt gu'kp'r ctvek r c'kpi 'kp'qwt uwf {0Vj tqwi j 'y ku'tgugctej 'y g'j qr g'v'gdwgt wpf gtucpf 'y g'y c{u'j wo cp'hggkpi u'cdqw'cpko cni'ugpvkpeg cpf 'go qv'kqp'ecp'ko r cev'y g vgcwo gpv'qh'cpko cni'cpf 'cwkwf gu'cdqw'eqpugtxcv'kqp0

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Y g'ctg'j qr kpi "{ qw'o c{ 'dgpgh'htqo 'dglpi 'kp'y ku'uwf { cpf 'kp'y g'eqo o wpk' 'etgcvf 'y tqwi j qwt'r r'v'htqo 'y j lej 'y kn'hqugt'o gcpkpi hwi'eqpxgtucv'kpu cdqw'r ctvek r cpwø j wo cp/cpko cni'kpvgtcevkpu0Vj g'tgugctej gtu'j qr g'v' i gpgtcv'npqy rgi g'cdqw'y g'tqrg'qh j wo cp'w'pf gtucpf kpi 'qh'ugpvkpeg'kp'eqpugtxcv'kqp'r tcevegu y cv'o c{ 'dgpgh'v'uekv'0

Vj g'tgeqtf u'qh'y ku'uwf { 'y kn'dg'ngr v'r tkxcv'0Kp cp{ 'uqtv'qh'tgr qt'v'y g'o c{ 'r wdrkuj . 'y g'y kn'pqv kpenf g'cp{ 'kphqto cv'kqp'y cv'y kn'o cng'k'r quukdrg v'k'f gpv'kh{ "{ qw'kh{ qw'y kuj 'v'q'tgo clp cpqp{o qwa0Ki "{ qw'j cxg's wgu'kpu'cdqw'y ku'tgugctej . {qw'o c{ 'eqpvcev'lgppk'ht'Uej cwtg. lgppk'ht'ngm{GB deQf w.'839/774/63520

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