

vufvckef, gqpkvfnef
tvj oazMwMyBref



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yA0B i fee fowllaulj cyff mi fee fyA er
 rbfvrqee0Bij e0Z E lup fei lu0f yBref
 ee fA h e f v j v D e q q b e i l t e 0 e q mi fee h
 re faw q mi j f A f f u o f n r l y A f a y M q q q mi f q m e f
 q i f t v j q mi j f A f f u o f n r l y A f a y M q q q o f z i f w l l q 0 f u 0 f
 v B j y l x y f [e f y B r e f e 0 m i f z m i f v B j 0 f v B f v /
 [m i j n e f m r l v B j D n 0 f c 0 f [k f u l l j r D [m i j n e f m r l f
 v B j 0 f u y f u p f e e f u l l j r D v i j y B r e f e e f w l l a w
 r M , q f a o q E l t z e e f r e f , m y f r e b w D b w f e k f
 w D f 0 h y A b w f u e e r f [e f y A b w f , l e 0 f v B f
 y A b w f , l e g e r f b y A f f a o q 0 f a o y b f [e f q 0 f e B
 , 0 h z j r D e l l v i j y B r e f c 0 f v j z j r D m i f a r l c 0 f
 n e f v B v f e 0 0 B 0 f e e h [0 f r M w p f u e f v / -

qmi f v j y B r e



- y B r e f n e 0 m j e e f a w w f j [m i j n e f e f o m z i w /
- r e f q m i f t e [f u o f [u o m] v i j [d f [r f [0 f y A 0 B j b f
- y B r e f e e h r e f q m i f t e v z d f , m r f t v j v u b e k w D q 0 f u 0 f
- y B r e f e e f y A f v i j u y f o m e f
- y B r e f e e h e v B w e f w D c i [0 f
- y B r e f e e y A f v i j c i c 0 f u e f
- y B r e f e e y A f v i j v y [A f w m i f [m i j v D

w j m i y B y e m i b e l o e f o w l w D 0 f o m i h
 (Studio Xang) n k l n 0 f u e f v B r e f n e f A f 0 B
 n e f A f D n r f e e f q m i e e h n 0 e 0 e c l j [e k k f
 v k j f A f a u l l e k f a o v B h u l y A f m y m i h y k f n e f v D
 o b e q f f t w l w h e e h 0 h u 0 c u y f v p f y B r e f
 e b o w f c 0 e e q i l q m i j f A f o m i j v B r e q b e i f
 [i f a c l j n e f m w j 0 m j e 0 c 0 f e e h e f / q r f e i l a c l j
 x i r h e e b o c e f v B h y k f u e f v i f c l o e 0 f
 o w f c 0 e e h y d b r 0 m j c 0 f D m i f l l o k l t v j y B
 0 e f n o w l l a u l j q r f e i l y e f 0 f r e f a o q 0 f c 0 f
 q m i j f A f v B w l l e 0 f v D e 0 0 p f / q r f o z l l o r e f a o
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 a r l l q e f m i j e e h z j o e f e f a u l j v B v B f u n g r e f
 q b e i f z j x d f q m i b l y m u f w k f B e e i l u 0 f
 o i f u l x i r q m i 0 m j q i l c q e f n e f t e b e B k f r e f a w
 q m i j v m w f v i j y l x e l f n e f e f c j l o 0 f e e f a u l j
 0 q m i j v m w f v B l v w m i f v b j c i f a u l l e k f , b f n e f
 t v j v m w f v B w f v w f v 0 f v 0 f e e f y A f v e f n e f
 n r l r D r l y A f w l l c e f v e f y B r e f , 0 h
 n e f y l y b f u e e g u j u m i f v i j f A f o m i j y B
 r e f c i c l e f t v j v i j f A f o m i j y B r e f c i f o w f e e h
 u e f [0 f e B a r l l v d j v B r e f [f y w f v 0 f t v j
 x k f e f e e h 0 h w e f w l l c B e w m i f 0 b e f e h r l f
 r e f a o [A f t e / q i l q 0 f u 0 f , m r f [e f r 0 q r f w D f

i e f q r f c y f q q g e r k k f z j r D e l l l c 0 f l v v 0 q m i j v m w f v B l v w m i f v b j c i f a u l l e k f , b f n e f
 a o e e f q i l [0 f v B l v B e h e f v 0 a o q 0 f e B l
 [l k a n j] - v B j r M c l j a n j / e g n e f m w f r l e e f m r l f
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 c 0 f E j v B c 0 f e f l w l l a o b e e h 0 h v i j w f v f e f w f
 y e e k f a u l j v B 0 c i f u y f y B r e f , 0 h v 0 f o v i j q f f e e f v i j l o k l n r l e e f e u f u r l z l l e e h n 0 f y B
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yBref [M (nrlee f) olz NO [Mk

acl xir hef/ Dbeq clye kfeeh (vkjwll , nraov Baf/ i jw Defqr fei l [ni f nef Duf
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 rni fullawwyl Oj ya B refwi foefrni full
 aullawwyl Oj c f [ni feefya B efef Bulya f/ B q Af Df ne fmi fye fawr D M eef [ni f Zu d f
 wj Dwlrefq kvi fe Buly r b e i l nef/ Bv E fe l f blw r (Frercos) nef FfOB D r ftz M q D feeh [ni f
 tevi j qmi eeh Oh olz NO e Bnr l qmi jv d f c f [e f (nrlee f) [g r f qe k e f, l y n u l v n B q D f
 Ojlaw [A r f [B fuy feefya B r folz NO nef v e f te [g l Oj vij (Video) y D D O f x D s D v l f q D f
 ya B eeh Oh w D e fe Buly v B r f, M o D w k n D f e Bulya f v i fe k nef/ B b r M q r f [g F k v j f



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nll, kklf nef	vijwilekkof	yBqykfnef	vijgufuef	yBefvjunufanll	zllullugfvmwf
3-5 clyf	<ul style="list-style-type: none"> -yBmifvB -0E6ufvB -arllvA7 	<ul style="list-style-type: none"> -wpyefwDf -u0ufp7 -awll0, 7 -arllvA7 	<ul style="list-style-type: none"> - arllzm bwdij rmi fA7 - arllvA7qrf yefrll/ - aullnefij, 7 vD7efyA7yyltrj tvjzjvvr7 	<ul style="list-style-type: none"> - awyBllwDvA7 tvjwif, rfvDD vA7 - arllwyfc7fnef zjl 7ymw7aaw arllvA7uf7eif, b7- nief 	<ul style="list-style-type: none"> - ugfvw7fnef7 w7ufj0ef - [i7ug7 - vA7wD7vA77 - c7ey7fyw77 - arll b7ug77
6-9 clyf	<ul style="list-style-type: none"> - arllbllw7fll vD707 - arllzm bwd - yBvE77 ul77 - v7efer7qul7 	<ul style="list-style-type: none"> - arll e7ne77 vif7e7k7 wDf rfvif7 -arllvA7qrf yef7 -arllh077777 	<ul style="list-style-type: none"> - arllqufyef7 - vD7n7p7faull npftoj/ 	<ul style="list-style-type: none"> - arllqufn7j7wD wmi feufwmi fe7 w7f7k7 - [lqufc0f, nr7 - vijy7ey7vA77e7 c7py77l0y77ef arllvA7v7yif7q7 ac7lwy77 -arllvA7r7n07qrf arllvA7qrf 	<ul style="list-style-type: none"> - yif7q7ug7fvmwf rllvD707 - [i7ug7 - unefief cw7q77ey7e7

vi f w 0 c f c k f o i h	y B q g	c g j u e f	y e f p l l w m i f a r l l	w m i f 0 e f w m i f l e f	w m i f l i m i f v D	vi f l A f o m i f
<p>✓ w e f z k f v e 0 h e i f</p> <p>✓ w p f v i f w r f 0 m i f r 0 f</p>	<p>✓ w e f w l l v k f n e f r D e g A f a y l l ? [h f v t h ?]</p> <p>[t r D w m i f r e f a g c k f t v j r D w m i f 0 e f n u f r m l</p>	<p>✓ w a w v B A f o m i f q r f v k f n e f a q b f 0 f</p> <p>w a w [r f q r f v B q b f 0 f</p> <p>✓ y B a g l q r f u e f e r f</p> <p>✓ v i f u y f o r e f u e f</p> <p>✓ [t r m l l q r f y A f k f</p>	<p>✓ v a r l b q l g v 0 f</p> <p>✓ [l y i f a q t y B 0 e h</p> <p>✓ r D v i f 0 B D [A f l l</p>	<p>✓ V k f n e f e 0 f u s t q b f 0 f</p> <p>a u l l c 0 a w v v b f n 0 f o [A f l g r e f v D</p>	<p>0 B l c e f o w i f u k f 0 B</p> <p>u l j c e f m l v k f n e f a w</p> <p>[A f l g r e f v D v 0 f 0 l</p> <p>w l l a w c 0 f v u f v B e f</p> <p>v 0 f y e f F f v k f n e f</p>	<p>✓ [A f o m i f</p> <p>✓ q t r h f o m i f n u f r m l</p>

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refwef [Aful] i supfref urfvAf 0h vAf Afwbfune [Af egvufy] wge Bqrfeilqelit z0B
ynehM, klyonufvkfnel? [ni jzni fer b gwi 10i fule? pnel wmi fuw fz Mollung fvmw? yBq Dfe B
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r0jv B v Af A r b v i f, 0 e f o l l z M 0 v k f n e l a u l l a w [e f b e f v i e i l u 0 f n r l w m y f v D f o e f e f
r e f q l d e i f o e f i m e b e e g y r e f / v k f n e l c 0 f g m c 0 f v e f v a f [A f u l l e g o d f 0 f v r f 0 f
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v i j n e f e 0 p l e d e e h r e f a u l l n r l q g n e f n e l r e j r e f u k f / r e f a u l l a w n d e 0 f i 0 f v B
v i f o d f 0 f w f v r f d f r f e d 0 f x f f v l u e f / v i j w 0 b g e f y A f i f e r f r i v l l v k f n e l a w q m i j v A f A f
w i f u k f 0 B g g 0 e e h 0 h x f f v i j e f a u l l v k f n e l e e f o i f 0 f B v i j f u l v j v i j y e f [f f q g D u e f [d f
[r f n e f l q r f c 0 e e e B e B u l y A f i n e f v A f A f t v j u n e f u f y i n e h r l r D r l y A f w e f w l l c 0 f y b e k f
e i l u 0 f



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ubfvi füllektvj vkfnelc0f[ç]æf wjeB[ç]æfclv Afwpfxkfvkfnelc0f
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- § ç[ç]æf[ç]æf(zifç[ç]æfçk[ç]æfç0fwk[Afv]faullçrf, laotvjç0çmi f, 0çrfully vijç[ç]æf[mi]fç0fç0
 0ç0, 0fvD]ullyvDwf, 0Befv]B[ç]æf[eheçk]B[ç]æf[ç]æfç0fyM] ç0fç[ç]æfzefefç0ç[ç]æfç0f)/
- § yefp]wmi fuwh([mi]fnefvkfnelc0fç[ç]æfç0hufm]eefhuyfoi f uAfv]p]vjfoi f 0efç[ç]æfç0
 eç[mi]fneç[ç]æfç0
- § wmi f0efvni f[ef(nufanllc0f (n0fvD&lyfvijfllwmi f[efç0ç0tvj awqef[mi]fnulm]/
- § nef[mi]fv[ç]æf(vkfnelc0fBaw0]ceç0fvi fçwfcç0fvj vijvkfnelc0fvni fawllcwfcç0
- § vijf[Afv]fomi f (vkfnelc0fBawefwllc0awte[mi]f nefç0f mrf[eheçkç0awqç]ç0ci:f
 ç0fç[ç]æfç0tvj ç0awqç]ç0fç0mi]fnulh)/

uyfç[ç]æfBvj umefBrefefyAç[ç]æfç0hnefrBfwllaw0ebelurçFçefimefufyifwAfv]çk
 xB[ç]æfç0h

i/qe f x n e f c l e f, l g i f 0 d t v d f e v d f e 0 A f z A f

0 d t v d f e 0 A f z A f e 0 n a o v y f l a f w f r b o z l l o v k f n e l t v j [m i j v k f n e l c o f 0 f v k t v d m i f q d f e e n o t w l w i f v i j w d n d n e e k f u a l u y f v p j v i f c l e f, l y k f n e l e e h 0 h e i l f d a w t e o n u f a o l v b w d n d n d i f e f e e h v b o y f v f t e v i f c l e f, l (6) q e f x n e f v l u e l w j e b e e i l f d a w w f f w w f q r f e i n l l, k e b r i z a l y a v b l l a o b t v j z d l w l l a w v y f l a f q r f n l l, k e h v y f l a f q r f q e h x n e f r e f e b v d j d w f e b 0 h

q r f e i l v y f l a f r m a o n e f v z m i b w d e f n e e k f t w h y a f i j q e f x n e f r e f x y f u e e e h 0 h y l v f i j r e f a w v j e f q e f x n e f c i f v k f n e l n l l, k (2-4) t v j n l l, k (4-7) x y f u e 0 b e h 0 h v i j f l f q r f v k f n e l n l l, k (4) y 0 e h 0 h c o l t w h v k f n e l e g u j u m i n l l, k (2) y d a w l l x k f (4) y 0 b e k f, l q r f x n e f r e f a o, 0 h n l l, k (4) y d m q k f q m i j l a f l n 0 f v z g z b o, 0 f y a h e c k f v b x f f q e f x n e f r g k f f n e e k f e e h 0 h

q e f x n e f w f f v b v u f v u f
(The Scribbling State)
(n l l, k 2 y 0 k f 4 c l y f)



q e f x n e f n e e b a q e h e y b e f, l g v i f z l l o l l u g f v m w f w d f e e h 0 h q e f x n e f e b k f v d q l w k f c f f [m i j z m i f o, 0 h v i j c l e f w m i l v m w f t e e e h w e f w l v k f n e l e b a f v u f v b n e q m i j u y f o k f q l y e f c l e f l y b n e e k f e e h 0 h v i f x i r c l e f u a l u y f v i f c y f [m i j c i f 0 e e h u l l q m i j l a f l g p n e f w l l o d v k f n e l z g z b b, 0 h u l l z i f, m r f e b a f n e c o f [l w f x y f w d k r a f l a f a u l l y a f v b v m w f q r f y d l v e f r e f q k f v i j n 0 b d o q a f b c 0 e e f v e f w l l v k f n e l n l l, k u f e b a f v i j w i e k f d e e k f, 0 h q r f e i l q e f x n e f n e e b v k f n e l c o f e l w f /

a w r d v i f o l g g w f n d f u p f / q d e f v j v d f v j a f v i j w i e k f 15 r d w f w l l x k f 20 r e d w f g, 0 h u l l c l e f a w v b a l x f f v i j w i e k f h e f l g c w f q d a f v i j w i e k f h e c 0 f q g b q d e e t e l v k f n e l c o f q i l a w r e f o d f q g r f v i j w i e k f e e h 0 h c w f q g q l v d f v i f e r b a w f m i f c e l t v j c d f c i g j r a f a f w l w d v g e b b e y e d b y d l v e f v i f e r b a w f w m i f c e l f, u u

q e f m i j / y a e 0 h a f a u l l, m ? u r f f f a u l l, m u r f f f w a f o d n e f l g u l l, m ? n o f b a o q e e g b a u l l, m ?
u f v f / n o f d f z b a o u w f ? n o f b l a o o d l a q ? a q j o d v j c d f c i f m i g d f (, i f u p f z e l a x m ? r g b a q j w d b t ; ? r e f r m u l l a o w d f ?

y o f / /, w l o d e r b d o n o f w l a o, 0 b y f y l l a o ? / v k f y e f t v j c d f c i c l e f w k f w b (e i l f [0 b g, 0 f a y m a w q m i j w 0 f o b v b e e f a y m a w q m i j l a f v b n f f e e f c l e f q l y e f w d f q d f e e h / v w l e r f r x d f c a f ? z l u e f (u r f i j r a f r a f) / y a f b a u l l, m ? a q m ? r e f r m u l l o b u e f e r t v j e r h e f d e g u f a u l l, m (e i l f [d a w o l t v j w 0 f b e e f q l y e f w f r m i h e e e f y a f v i j (w i e k f d i) e l w f / v e f n o l u a w b (c i n e) ? p n u c 0 f q k e f

rdjyBkqefxnef[k[mi fnef 0fvl
 (The Pre-schematic stage)
 (nll, k4-7cylf)

une fEjvBue eefwe fwlvkjnel nll, k
 rufeB, mylwe fwllo fwtwh, e fofee fvj
 vijqElt zye tkhelyefvkjnelc0fo oefg
 c0fAvfume fllgrfue eefyA fvf, gwltwh 0h
 vkjnelc0ee faw[Avfume qrfyA fikaowllaulj
 yA fjkqmrtaullv Af eilf Bfc0ayll aw[Avfume fllg
 qrfefgk fefkjne eefualluyfvpfvj j[Avfume f
 yA fke eefw nrylB Derbw fmi fclfoifaowll
 aull eilf Bawya fll yBrefefkjne eefq0fu0f
 qmifj[AvfyefBvijwif Bkme be fefc0fvi jn0f
 [mifaj, gneefkao ologDg0f Bqmifj[Avfllg
 vkjnelc0f rfr BfrllvB



vijwif Bkne faw0B rufwe fwlvkj
 nelymee BwA fume fnef? yufyife e rbw f
 vijwifv mwf vijq0fu0ftvj erbw f rifu f
 eeh 0hnrllr k r i f0ll vkjnel(3)cylf [g rllqef
 yDl0D(Picasso)? qB fllv Dwfq g f eilf Bf
 vkjnel fawrefq g0fu0faw, i jnrferbw f
 vijnef0f qmifj[Afoefv f vfoef, v

ymefufe Bvkjnelc0f rllawbqq fvlc f r B
 nrlee fll [k[mi fya f 0hci B Dq Af, m0? wll f
 0i f? ci B Dq Af Avj onr q Af q Dfe Bve fwlvkj
 nelc0ee fll q f v f v jao, 0farllqlyv Bfo Af
 x0f vj q wly A fvr f q Dfe e fll arllqlyv Bf, 0h
 vkjnelc0ee farll B rufef Dnef0f wif q g e h
 ao, 0farllv Af Af wif r B q r f d f r f c0 f f v lue f
 y D r B m j o b q g D l m e 0 m w f v k f r M a o w l l w l h
 qmifj[Avf v B r u f [e f B e f z B e e h p f
 w D f w e f c e f r m v i f e r b w f r i j u f v f t v j v i f
 q k w k f r f u e f i o [A v f o m i f / a r l l q k w k f c i f i o, 0h
 q l y v B f c D f c i f 0 f c m l a o a r l l [A v f o m i f n e a w [e f
 v j o n r z B e e f m /

z M [d f r f e e f n 0 e i b B f z d f ? z l l w i l l u 0 f
 a o w l l 0 B, 0 h v k j n e l c 0 f u l l [g e k f c D n e e 0 w
 [g i j [A f r 0 r f z i j a o, 0 h [m i j [E f o e f e f i j f
 [A v f i j r w f o g d f [g v f v 0 B r f o B B



qetfeerfnewDf[ketf[mi f
 (the Schematic stage)
 (nib, k7-9 clyf)



zif[U[efviftwhef
 (The Stage of Drawing Realism)
 (nib, k9-12 clyf)



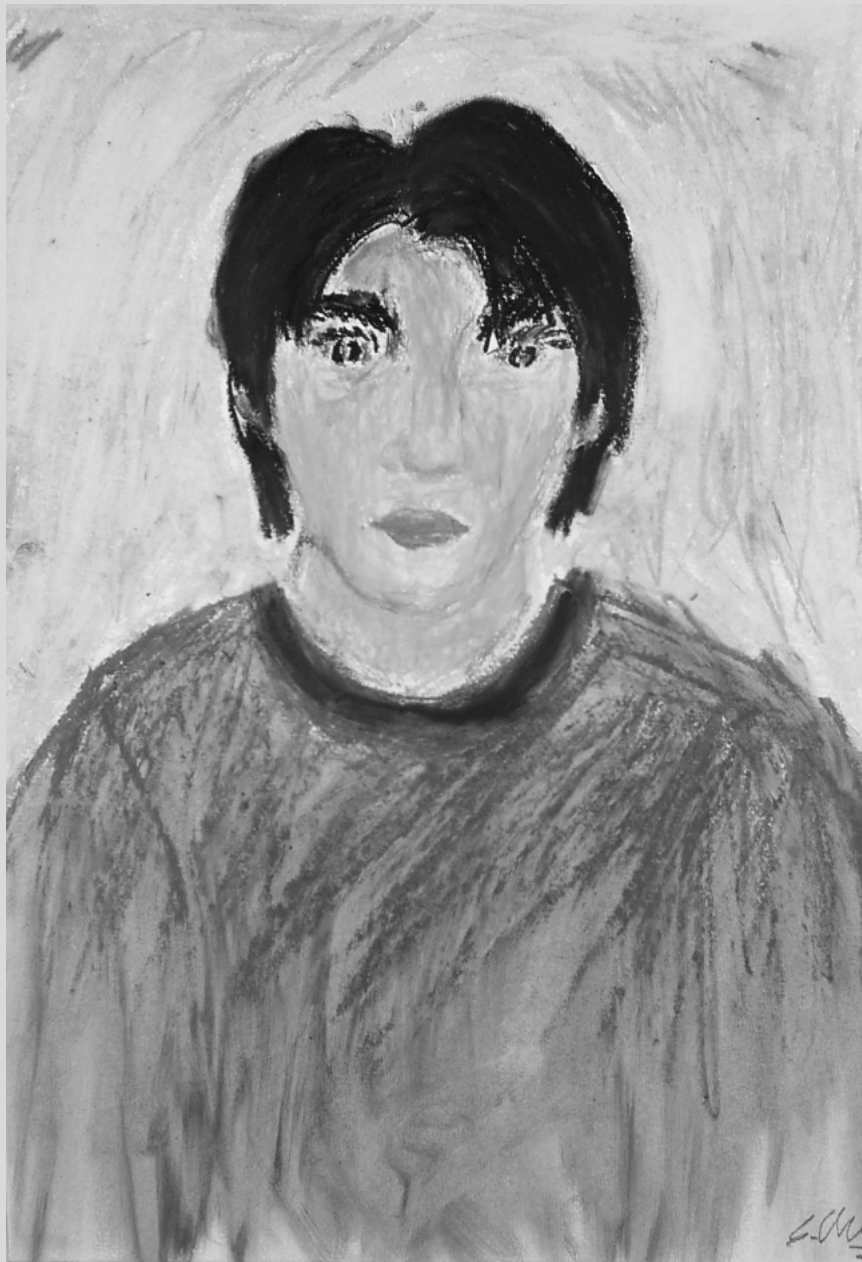
ymefufeBwhylkqgDfivD60ftvj [df[rfrM zifymefv[kfnefxfmejeBc0firMvAf[Af
 vD60feeh Oh, nrfrDf[mi faul] awvfwjefwfrDmi f0bhf Oh eufaoeBarMvni fvmvfvifcDf
 ao awoyfao;erfD60ixFf/ vkfnefc0eeh ci qrfelkybAfefeh Oh wmi f[U[ehetOf
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 ynehefologDfivD60OfuOfyA7bvi frefeh x FfOM] awvBvni fufjwmi fully efruf ul] [BEB
 , Oh arMvfv] [mi f nefefvBmrZBeeho? xFfluel/
 0B6eilfvAfwi fcebfufao (0Bvi fw]ukfxd)
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zifryB0ef0beE]0bkrif
 (The Age Of Reasoning)
 (nib, k12-14 clyf)



zi farMwffwwfoAjq
(The Period of Decision)
(nM, k14-17yD)

nefvDkFfoiqekfreEbnrlayM[k6if xFfwilrAfrMoeEehOfybfVinefvDlwbf
awyAfm ynebnOf ynefnOfyAtefvIfrMeB c0Eefwlerfwfmi fceE! vijxklrEftvj vij
auj0jvBuyfeBvj vufvDneawn0foeyef [mifvDofeB0h
c0EefnrifqreEgyEab awvBvufvB



nefAfqmi fVβvj nefAfqDfnrfqmi f[eVβ

Visual and Haptic

arlbefloefqDfaw [Avfune fBrefv] [Avfaulvkfnel fefnef kfv D0B Doi fDfoi fVβ
 [i 0] rAfne [efVβ] Haptic vijofefvjwmi fvmvfteeeh 0hwi foifafe Burferawqmi f
 vnrfflvβzmi [mifvkfneltvj ubfvi hestenufr Meeh 0hzmi [mifnefenufr Meefmi z0fmi f
 rAfefefnefnefefa [U[efqFfvFfvzefv] donrfeefqmi fU[efwi foifafaullyAfVβnefe
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- rAfne [efVβefvkfnelaullekf
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vkfnel fefayMc0awqef [mifeB0aw
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- nrifqDfcifvBv Afp refawyDlfe
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ayM0] wi f0BneefBi foifude arlbefloef
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 urkFfDv vkfnel fef vi be0fMx Fvluel



vij[mijvɔvj vɔreɪr;

“vij[mijvɔneɔjeɪrefyæfɔwheɪk/ ayMɔnzɔfzɔfɔwɔfɔBɔfɔjauɔqef
[mijneɪfɔfɔhulɔmɔvɔowɔ ayMnɔfmi f[ɛkɔfzjvɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔf
vijwmi f[mijvɔkɔfneɪkɔfmi fɛfɔf

vij[mijvɔBɔrefnɔf
reftvj vɔwftewmi f[ɛkɔfɛf
umɛfɔfneɪfɔf
“qɔwɔf” neɪkɔfneɪkɔf

vɔfneɪfɔfwhvij[mijvɔDeɪfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔfɔf
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