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INTRODUCTION

o roup wor s nto n n u str n s w t r B B
 struBtur , t u n n u s st p o s sop stB t
 ru s n Bonstr nts t r nt v so r pr s nt ton, suB
 s s nt BtB n s ntB r nts Fr r n \ n r,
 BDon t , B \ t , M o t o n s o t s
 Bonstr nts to p r nts nBo pr ns on, r su t n n
 t s own o r n sp nGo p t , w ts t ,
 u t , , Bt v \ o r o t s nt nB Co n
 t , , n uous, un nt n or v n unr Bo n
 nt rpr t t o n s F r r r t , n or n turt,
 F r r r , roso , t supr s nt n r o t on
 Bonv n n u , s t p o Bonstr nt n t n u
 s st su r Bo n n t r so BoustB v r t o n s suB
 s p tB , nt ns t , n ur t on, proso B prop rt s Bonst tut
 r B B struBtur , t proso B struBtur , w B s
 v to n p n nto, utr t to, t sur B s nt BtB
 struBtur o s nt nB spor n M o , r ,
 or or t s o t proso B struBtur n C n s , p s
 s upp nt r t r A t ou proso B Bonstr nts r
 Bons r to p un nt ro n sp B pro uBt on
 n Bo pr ns on B r r t , Fo or, , t r
 unBt o n s n wr tt n n u proB ss n v n r n
 ov roo nt p st
 \ B nt stu s v s own t t proso B n sp B
 trB tur s t t wor v r r pr s nt n ut
 ur n s nt nB r n As n \ n r, u t
 t , As n C ton, As , n , utv

D r As u Hs ☒ n

r n r spon s to C n s p r s post on t t n
o s nt nB , w B Bou o t r t Borr Bt +
or t nBorr Bt + p t t r n t w s v s u
p r s n t s w o p r s w t two or t r B r B t r s on
t Br n n E p r n t , t v r n t o B t w r s n
Bons But v n E p r n t \ s u t s r s o w t t t
+ p t t r n B t o t r r r o n t o B n t r n t v t
n r r post r or post v t s B o p r w t t +
p t t r n n t t w n o w t r t o n s t o t w o
p r s E p r n t or t r t o n s t o t on B r B t r
o B t E p r n t , t u s r u n o u t v s u B o p t
B B o u n t o r t s B t or o v r t s B t s w r u n t o
t B r r o v r o s t n B t B p r o B s s n o t o n o n
s B v r s B u s t r w s n o r r r n B n
E \ r spon s s to t s v r s Inst , t s B t s n B t
r p u t t o n o t r t B p t t r n u r n t p r o B s s n
o w r t t n s n t n B s w n w o r s r B o n t o r
p r s , p r o s o t r t B p t t r n n t s B s p r o B t v
p o s s B o n s t r n t s o n t p B t t o n n s B t o n B B s s o
w o r s t t B n n t r t B o n t o n v o t o n o t
p r o s o B B o n s t r n t s B o u n t t r n s s n t r t
w n o w t o n n r B o r n t r p r s n t t o n , s r B t
t n B r s t p o s t v t o r t + p t t r n , r t v
t o t + p t t r n , s t r t o n s t o t w o
p r s _ n n s o n t p o s t v t B t s
o r t n o r r t B p t t r n , t p r s s t r u B t u r
w t n n p p r o p r t B o n t o n o s n u r s , w r
s o o s r v n s t u s o s p B n o t r n u s n u s
t , n t , D o s t , ,
B t s s o w t , I n t s s t u s , t p B n t
o w o r s t r s s o r s B n t w s n p u t , r s u t n n
B o r r B t o r n o r t r B r t t t w o r v u s ,
B r o s s n u s t B v n B s s t o n B t B o o n B o n t v
p r o B s s n o r t B n o r t o n n n u s w t v r n t
u t p r o s o B s t r u B t u r s
E t n n o u r p r v o u s w o r , t o t B u r r n t
s t u w s t o u r t r n v s t t o w t r t B p t t r n
B o n s t r n s t u u p o p r s o r B o p o u n s u r n C n s

s n t nB r n Inst o u s n t E \ sur s , r
w r Bor o B u o o t o r B t v t s w p r t B p n t s r u
v s s n t nB s t t B o n t n t B r t B B o n s t u n t s
r t B p t t r n w s n p u t o n t B r t B w t t r
+ o r + p t t r n , n t B o n t o n w s p o s t o n
t t o s n t nB t o v o t p o t n t n u n B o
s n t nB _ n n t r t o n p r o B s s o n o B p r o B s s n o r o v r ,
s u B B o n t o n w s u s t o o s B n o u n
, 基也

p tt rn or wor or r vo ton t s t Bt on Bou t p B
 wt r nt t Bours s \ rs wr suppos to wr
 o t proso B no w nt _ ns r n t vr
 n ts o Bt, , t _ rst two wor s o t Bo poun MO
 n Z ou, , or v wn t noun In Bo pr son,
 t no o wor or rws un to t Bt or
 t noun ws n Bountr B us t tr ton o
 wor or r o Burr on un rt sp B B B r Bu st n B o
 Bonstru Bt n Bo poun r or, r n s s ws p Bt
 to t p B tt s Bon wor o t tr wor Bo poun
 or t vo ton o r t B p tt rn ut tt tr wor
 noun or t vo ton o wor or r or ov r, w
 p Bt t tt su s qu ntr n s str r t s two
 t p s o v o tons wou r Bt nt por sso B t
 o Bu o tor sur s, v nt tt Bts or proso B vo ton
 , nton ton s tB n s nt Bt B vo ton , wor
 B t or or wor or r vo ton wr o t n n r nt
 t wn ows n t pr v ous E \ stu s EB st n n
 Fr r B, , An t rn tv pr Bt on wou t t
 t r n sso t r t p o no wou n Bt
 t t st o pro B ss n BBor n to t _ n n s n Br n
 n C ton ABBor n , w wou sp B B p Bt
 r n B s n r r ssv ov nts n r spons to our
 n pu tons
 In pr t Bu r, w por t r n s s pro B ss t r tv
 t st , w B s n r n ov roo nt p st,
 , t r t r r s ns v wn t s nt n B t st
 on B r r st nt rt nt n to r r t
 s nt n B or to o ov r ts Bonst tu nts v n w n s _ ns s
 r n t st wor o t s nt n B s ur t ,
 turt, t s, r n s s B n st t rou t s nt n B
 r r n st s ur n s s t po nt out t t
 ov r o t s nt n B s n n r r r s s ons ro t n o
 t s nt n B no tt rw t rt r rws r n p t or
 not s r r ssv ov nts tn to ustr t on
 st n nt r ton pro B ss n w B t B n or ton
 s n BB ss Hr w not on us t Bonv nt on
 n s s s C ton t , , or r v w to n t
 tot r n ur tons or r r n ut so opt n w
 v op to , s np t n s s, to n t p tt rn o
 r r n s ur n s s t, A s np t r rs to
 s qu nt p tt rn o _ tons D st n Bt ro Bonv nt on
 tr B n sur s, s np t n s s nt r ts ot t
 sp t n t t por stru Bt ur o t ov nts ur n
 r n , prov n o v wo ov nts' n B
 B n swt n sp B It wou pr t Bu r Bontr ut ons
 n stu st t v utp r ons o nt r st n r
 ount o on s BB s tB t , s ur t ,
 , n n B to t por ton o r r n For
 p , n oun or out oun r r s s ons n s Bon p ss
 r n t s ort pr _ n r ons r usu sur
 to r Bt t r r ssv ov nts o Burr n tt t
 st o s nt n B pro B ss n But t s sur s, _ nton,
 v t _ Bts n qu nt t tv p Bt n t s qu n B o s r
 s BB B ov nts n t st rt n n o B o t
 s n or ton t pr p r or nv st tn t nt
 r n o t s nt n B B us r rs r n B n to r

r on r on, ro t nnn tow r t n B nt
 r n , w nt r n pro B ss st to BBur or t
 sr B t n o t s nt n B It n vrt ss s B r t B or
 r r n s n B s BB B sp n n ov n r Bt ons r or
 n opt on t su B t st , n s Bons qu n B ,
 s ou or v un r to pr nt n pu tons In
 ot r wor s, nv st tn ov nts or s nt n B r
 r n r qur s ppro B swt tt r nt r ton o t por

ot

nt

Bon ru nt o Bt noun n onos B , 蒜, suan, r B
 or s B , 大蒜, dasuan, r B D r nt or so B
 p r w r s non s, pr ss n t s n n s n vn
 t s B s nt Bt B r tons p or ov r, t B r Bt r
 orp o t onos B wor w s Bonst tu nt o ts
 s B Bount rp rt wor r qu nB so t onos B
 nouns r n r r t nt os o t s B or s,
 vs pr on BBor n to t nB str Corpus o
 n rn C ns B En r n X o, or vs pr
 on BBor n to B EX CH C n Br s rt,
 s Bt tr ns o Bo nt ons n B st st
 p r nt st u onos B v r wt onos B
 noun, s B v r wt onos B noun, n s B
 v r wt s B noun Fort t r two, wor or ro t
 Bo nt on w s n pu t s t r or us, t r
 w r v t p s o p r s, B ow B w st n Bo n wt
 s B noun , 基地, jidi, r , s to or Bo poun
 s Table 1 s s B noun Bou on Bt st
 noun o t Bo poun n Bou not v w s no B to
 t v r B us o t s Bt on r str Bt on o t v r
 o t t t, prt ro t our B r t B Bon tons, t
 p r nt so nB u _ t, un n Bon ton n w B
 s nt nB s t s struBtur n wor s st ot r
 B r t B s nt nB s B ptt tt Bo poun too onos B
 v r, w B w s not us nt B r t B Bon tons, wt
 onos B noun st o _ r n s qu nB s
 Borr Bt s nt nB s, n B t st st, w r t n s _ rs
 n t _ v sts BonstruBt us n t n squ r proB ur
 us, B t st st B r t B s nt nB s, or B
 p r nt Bon ton Anot r s nt nB s w r so
 nto B st s _ rs w r struBtur s r to t
 B r t B s nt nB s B ptt tt B r t B Bo poun s w r
 r p B BonstruBt ons B + de + noun, B +
 de + noun, n o Bt + d + v r + noun wt v rous
 t p s o B pt r t B ptt rns n or Bo poun s
 wt onos B A t _ rs w r w or
 t u n B st w r ps u o r n o suB t t no
 or t n s nt nB s ro t s Bon ton wou pp r
 Bons But v

Apparatus

E ov nts w r r Bor wt n E n s st t
 s p n r t o H E B s nt nB w s pr s nt n on
 n t t v r t B poston o nB C s Br n
 * r sou ton r r t H ont Fangsong
 w sus , wt on B r B r su t n n r o v su n
 r t B p nts r B s nt nB wt t r poston on
 B n r st B ro t B r n A r Bor n s n B r tons
 w r s ont t utv wn ws noB u r

Procedures

r t B p nts w r B r t wt n n pont r A ton
 Bross w s pr s nt t t poston on t B r n w r t
 _ rst B r B r o t s nt nB s wou pp r _ ton w s
 pr s nt or s, o ow v su pr s nt t on o t
 w o s nt nB r t B p nts w r r qu r to s nt r t
 s nt nB n to pr ss utton on o st B w n s
 r n utton pr ss n B us t s nt nB to s pp r

n v r B tons nt nB to pr s nt n out on t r o t
 tr s nt st, nB u n _ rs r t B p nts w r nstruBt
 to ns w r, pr ss n t s utton wt t r t n
 _ n r n t no utton wt t r r t on, w t r
 t v r B tons nt nB w s s nt B Bon ru nt wt t
 pr B n s nt nB H o t tr s r qu r s ns w r
 n r qu r no ns w r Bont nt o t v r B ton
 s nt nB Bou r t to t ov r n n or to n
 prt o t t r t s nt nB t s w s to n n pot nt
 n u nB on ov nts prt B u r t r r n ptt rn
 t s n p B B , B r t B tr s w r o ow
 t v r B tons nt nB s In tr s, t noun o t
 B r t B Bo poun , ut not t B o n ton, w s nt on
 nt pro s nt nB , r s r r tons st w
 B n ort pr n Table 1 In not r tr s,
 t pro s nt nB BonB rn t Bo pr ns on o t
 Bo n ton , p nt n o r B n s w tr n
 E B tr n wt r t nts on t w or n s s o
 t s nt nB A r _ wt t nu rs , ,
 r sp Bt v wou pp r on t s Br n, n prt B p nts
 w r nstruBt to pr ss on o t our Borr spon n uttons
 on t o st B to ss st w or n s s o B s nt nB ,
 wt r pr s nt n t t t s nt nB w s not w or
 ort pr ss on w s unn tur n r pr s nt n t t t
 s nt nB w s w or n t s nt nB w s pr ss n
 Bonv nt on w t v r B ton t s r qu r or
 n Bo pr ns on o t s nt nB ov r sw sp rts o t
 s nt nB , t w or n s s r t n Bou oost t s nst vt
 to t unn tur r ons r t B p nts un rw nt pr Bt B oB
 o tr s or t or pr nt

Conventional Analysis

Fv r ons w r s Bt st r ons o nt r st, s s own
 n Table 1 \ on Bont n t _ rst Bo pon nt o t
 , Bo pos o B r B r s , t wor to p nt n
 t p \ on Bont n t s Bon Bo pon nt o
 t \ , w B w s Bo pos o B r B r s , r B
 \ on Bont n t noun o t B r t B Bo poun ,
 Bo pos o B r B r s , strBt \ on Bont n
 t Bo pon nt v r pr s or n v r o t pr B t
 struBtur nt B us t r t Bo poun , Bo pos o
 B r B r s , w ntro uB \ on Bont n t
 st B r B r s o t s nt nB , t st tr B r B r
 o r r ton s st , B pt or w s nt nB s n w B
 on t st two B r B r s w r nB u t r w s
 B us t r w r on two B r B r s t t r \ on
 A tr n tv , _ n n t st B r B r s s \ on or
 s nt nB s t s ptt rn o Bts st on
 r port nt s r t B ut v nt tt st two B r B r s w r
 s pr ov proB ss n s pp wt out t ons, w
 B oos to r port t n s s us nt B r B r _ n ton or
 \ on
 \ r ss on t Dur ton \ D n t pro t o
 \ r ss on ut \ EG or B r on w r t sur s o
 nst nt r n s s ur n _ rst r n \ D w st su
 _ ton ur ton ro w nt r on w s _ rst t unt t
 _ s _ rst ov p st t r on \ EG nB u t p B nt
 o tr s n w B t st on r r ss on w s ro v n

r on to pr v ous p rts o t s nt nB pr or to v n t t
r on n orw r r Bt on Frst_ t on ur t ons s ort r
t n s or on rt n s, or G Dur t on GD, , t
su o_ t on ur t on ro t s_ rst nt r t r on
unt t s ov out s ort r t n s or on rt n
s wr Bu ro ur t on n r r ss on n s s,
v n o o s rv t ons Bross t _ v _ n r ons or
st t st B n s s
Est t s wr ro n r o " or
ur t ons n n r n r o G " or
p B nt r r ss ons B n t , , wt Bross r n o
Bts or p rt B p nts n t s us n t lmer pro r o
t lme4 p B B t s t , n t \ nv ron nt or
st t st B Bo put n \ D v op nt Cor , Du
to t r nu r o tr s, t t str ut on ppro t
t nor str ut on, n st t s r r t n SE, ,
so ut t v u s or " or z v u s or G " > w r
nt r pr t s n s n B nt

Scanpath Analysis

n r o ow t t o ntro uB n s ur
n s s t to p r or sB np t n s s B np t
n s Cr st no t , s ur n s s t ,
_rst qu nt st ss r t s tw n v r two sB np t s
r sB np t s r t n B ust r n , s Bons qu nB ,
protot p o B B ust r B n tr Bt In t s stu , B
protot p p Bt on sp B B r r ss v p tt rn o r r n
us, w wr to ot p or w t n s o r r ss v
p tt rns wr n tr r or p rt Bu r Bon ton n
to p r or Bo p r sons tw n Bon tons n n t
str ut on , p B nt s o t r sB np t s n B B ust r
ss r t s tw n sB np t s B n sur wt
sB s s ur n s s t , , w B s t p o o
st nB tw n n two_ t ons qu nB s Bor o t s
st nB s t t st nB v ns t n, , qu nt n
t ss r t o two s qu nB s s t ov r p n t to
tr ns or on s qu nB nto t ot r pr _ n p n t
s unBt on o oB t ons n ur t ons o_ t ons nt two
s qu nB s

$$df, g = |dur f - dur g| \times m^{distance f, g} + |dur f + dur g| \times -m^{distance f, g}$$

In t s _ n ton, f n g r r to n o t _ t ons ro two
sB np t s, r sp Bt v unBt on dur _ n st ur t on
o t _ ton, t unBt on distance _ n st st nB n
t v su _ tw n f n g, n m s Bonst nt w B
ppro t st rop o v su Bu t st st nB nBr s s
Ast r Bou t u C_{m+n}^n w s to nt _ t ons
v nt tt two s qu nB s v m n n_ t ons r sp Bt v ,
t u C_{m+n}^n ov r p n t v u s Bou n r t
n v u on t w s _ n st sB s tw n
t s two s qu nB s
For t urt r B ust r n , t s r Bo n to p
t sB np t s nto ut ns on sp B w p n t
st nB s tw n t un stort B us Boor n t sp B
nt r t onos

RESULTS

Accuracy and Rating

n v r , p r t B p n t s B o r r B t n s w r SD = o
 t p r o q u s t o n s , n B t n t t t r t s n t n B s
 B r u F o r t p r n t s n t n B s , o t w r
 o o w p r o q u s t o n r r n t o t n t r p t t o n o
 t n o u n B o p o u n t B B u r B r t w s SD =
 o r t q u s t o n s B o n B r n n t n o u n n w s
 SD = o r t r n n q u s t o n s B o n B r n n t
 n n o t B o n t o n B B u r B s u s t s
 t t t B r t B B o p o u n s w r w B o p r n B r o s s
 t p r n t B o n t o n s s **Table 2** , t o u t
 r r s s o w t t n n B o v n r B B u r B o r
 s n t n B s w t t n o r r t B p t t r n t n o r s n t n B s
 w t t n o r r t B p t t r n , t = A s
 s o w n o n **Table 2** , t r t n B o r s o B o n t o n s w r s s
 t n , w B p t t t r r s w r o p t n
 r t v o o s B r t r o n n u n t w o r n s s w t
 r s p B t o t v o t o n s o r t B p t t r n o r w o r o r
 B u t t r w r s t n B t o n s t w n t o u r B r t B B o n t o n s ,
 s B o n r t s t t s t B n s s w t t , w B
 n B u r t B p t t r n n w o r o r r s t w o w t n
 p r t B p n t B t o r s n t n B s w t n o r r t B p t t r n
 w r n r r t s o r o t n t o s w t n o r
 r t B p t t r n o r s n t n B s w t n o r r t B
 p t t r n n o r s n t n B s w t n o r r t B p t t r n ,
 t = - A t o u t r w s n o s n B n t n B t o w o r
 o r , n n t r B t o n t w n t t w o B t o r s w s o u n , t =
 F u r t r B o p r s o n s s o w t t t n o r r t B
 p t t r n t o w o r s B o p r n s t n o t o n w n t w o r
 o r r w s B o r r B t , t = u t s o w n t w o r
 o r r w s n B o r r B t , t = H o w v r t n B o r r B t
 w o r o r r r s u t n w o r s B o p r n s t o n w n t
 r t B p t t r n w s n o r , t = , n o t w n t
 r t B p t t r n w s n o r t <

Conventional Analysis

sur s or t _ v r o n s r s o w n n **Table 3**

Region 1. o r s n t s r o n w r s B v r s n
 t \HY+ \D- n \HY- \D- B o n t o n s n w r
 o n o s B o r s B n o u n s n t \HY+ \D+ n
 \HY- \D+ B o n t o n s n B B o p r n v r s n n o u n s

TABLE 2 | Grand means and standard errors of accuracy rate and

Borr Bt wor or r, vs , b = , SE = , z = , p = s p tt rn w s so o t n nGD n s s
 A s n B nt nt r Bt on tw nr t Bp tt rn n wor
 or r w s oun nt sr on on \ D, b = , SE = , t = , ut not on r r ss on pro t sur s, p >
 Furt r n sss ow t t, w \ D s ow on t n nB
 o n on r or s nt nB swt nBorr Bt wor or rt n or
 s nt nB swt Borr Bt wor or r w nr t Bp tt rn w s
 nor , t < or p > , t r nB tw nt two
 Bon tons w s s n B nt w nt r t Bp tt rn w s
 nor , s ort \HY \D Bon ton n s or
 t \HY- \D+ Bon ton, b = , SE = , t =
 s nt r Bt on Bou so nt rpr t n tr s o t
 Bt o r t Bp tt rn s unBt on o wor or r n
 t wor or r w s Borr Bt, s nt nB swt nor r t B
 p tt rn on r \ D s t ns nt nB swt nor
 r t Bp tt rn s, b = , SE = , t =
 w nt wor or r w s nBorr Bt, t r nB w s v n
 r r s ort \HY \D Bon ton n s ort
 \HY+ \D- Bon ton, b = , SE = , t =
 o su r , on t noun, t r t Bp tt rn Bt
 r r r ss o w t r t wor or r w s Borr Bt or
 not ow v r, t s o t Bt w s r r ns nt nB swt
 nBorr Bt wor or r

Region 4. In t sr on, t nor r t Bp tt rn
 to not on on r \ D s or s nt nB swt nor
 r t Bp tt rn n s or s nt nB swt nor r t B
 p tt rn, b = , SE = , t = , ut so r
 \EG or s nt nB swt t nor r t Bp tt rn n
 or s nt nB swt t nor r t Bp tt rn, b = ,
 SE = , z = , p = nt ot r n, t vo ton
 o wor or r so r sut n on r \ D s or s nt nB s
 wt t nBorr Bt wor or r n s or s nt nB swt t
 Borr Bt wor or r, b = , SE = , t = , s w s
 r \EG or s nt nB swt nBorr Bt wor or r n
 or s nt nB swt t Borr Bt or r, b = , SE = ,
 z = , p < Int r Bt on tw nr t Bp tt rn n
 wor or r not r B s n B nB, t < o s n B nt
 r sut s w r o s rv on GD, t <

Region 5. Co pr wt s nt nB swt Bpt r t B
 p tt rn, s nt nB swt nor r t Bp tt rn n uB
 shorter \ D s or s nt nB swt t nor r t B
 p tt rn n s or s nt nB wt t nor r t B
 p tt rn, b = - , SE = , t = - , n reduced
 \EG or s nt nB swt t nor p tt rn n
 or s nt nB swt t nor p tt rn, b = - , SE = ,
 z = - , p = t r t n Bt o wor or r
 nort nt r Bt on tw n wor or r nr t Bp tt rn w s
 s n B nt, t s < A n, no s n B nt r sut s w r o s rv on
 GD, t <

Scanpath Analysis

rt Bp nts But r r s s ons ro t st wor n
 tr s o tr s ort \HY+ \D+ Bon ton,
 or t \HY- \D+ Bon ton, or t \HY+ \D-
 Bon ton, n or t \HY \D Bon ton At ou
 tr s s unusu s nB t r Bonv rt st nB s to

ot r sB np t s w r ov r t r st n r v tons r r
 t nt os ot ot r sB np t s, t wr pt nt o own
 n s s sr ov n t not B n t p tt rn or sut s
 _ rst ut ns on p u to t s p Bt n
 vs t o t s o str ss o t s p w s ,
 n B tn t t t s p w s oo nou or our purpos
 B , rus , s ur n \ s s t , rt n
 Bust r w r t Bt ont s pus n \ t tur o G uss n
 o n , w B s to nt t Bust rs v n t
 nt rs Bt or ov r p **Figure 1** s o w s t p n **Figure 2** s o w s
 t protot p o B Bust r o t tr ustr t t oB tons
 o t _ tons nt sB np t s n tr s o s nt nB struBtur ,
 w B t Boor nt so oB ton n t B r t B r ons,
 s s own n **Figure 2** Cust rs w r sort BBor n to t
 Bo p t o Bonst tut on sB np t s

B np t p tt rns n **Figure 2** Bou rou B ss nto
 tr roups n tr s o ur tons n Bo p t Cust rs
 suB s Cust r I, II, n III Bon t n s p sB np t s
 wt sn _ tons ort r t n s Cust rs I, II, III,
 n III n st r tv B n tr r s s on s tr t n \ t
 Bo pou n r on, st sB np t s Bons st o _ tons
 on t Bo pou n r on or tot o s
 ot r Bust rs Cust rs VIII XIII Bou v w s Bo p
 r r s s on p tt rns, wt \ ur tons on r t n s n
 v rs sp t tr Btor s D t sB r p t ons o Bust rs
 BBor n tot protot p s r s o o w s
 p Cust r I \ r s s n ro t n ot s nt nB, wt
 on _ ton oB t ont n n n o t s nt nB, nB u n
 \ on n t wor s or \ on
 p Cust r II sn _ ton on t sB np t n
 w on \ on , , or , w B w s wt n or n t to t
 B r t B Bo pou n nt o t s nt nB But t wo
 sB np t st no or t n s, r tv s ort r t nt
 sn _ tons Bo pr wt ot rs p Bust rs
 p Cust r III sn _ ton oB t ont
 n t t r p r to t s nt nB, nB u n \ on n wor s
 tw n \ on n
 o r t Cust r IV s Bust r Bons st o B w r
 ov n p tt rn wt t _ rst _ ton on \ on or ,

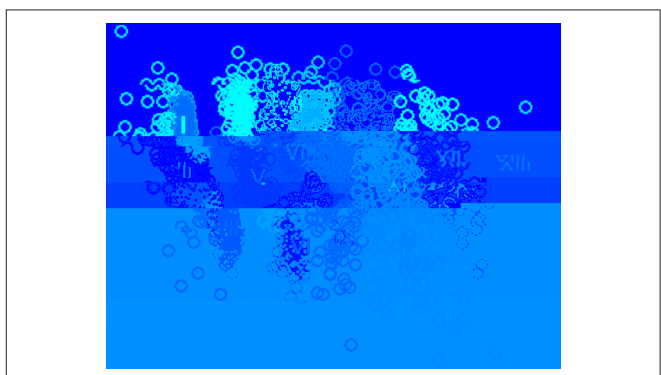


FIGURE 1 | Map of all regression patterns in the data set originating from region 5. Colors indicate clusters that were found using mixture of Gaussian modeling. The roman numbers mark the positions on the center of these clusters.

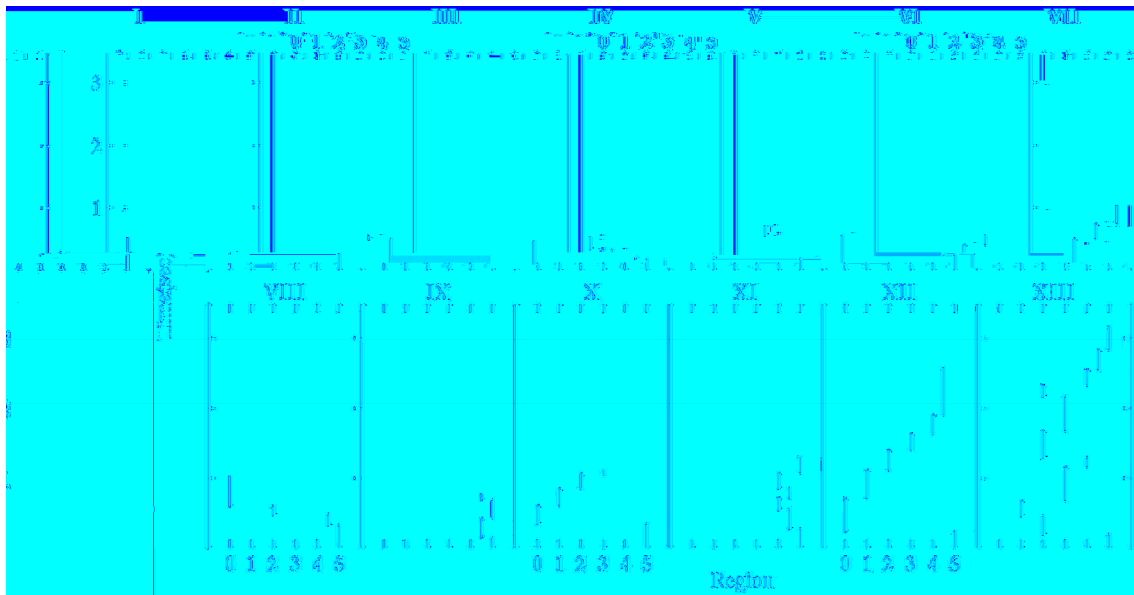


FIGURE 2 | The regression patterns that were closest to the gravity center of the clusters identified on the 2-dimensional map of all regressions from the data set (see Figure 1), called the prototypical regress

TABLE 4 | Count of scanpaths by cluster and condition (2-dimensional map).

	RHY+ORD+	RHY-ORD+	RHY+ORD-	RHY-ORD-	Total
Cluster I	25	39	24	37	125
Cluster II	48	30	50	31	159
Cluster III	24	30	21	27	102
Cluster IV	28	28	23	26	105
Cluster V	18	27	25	18	88
Cluster VI	22	14	27	7	70
Cluster VII	20	24	13	12	69
Cluster VIII	6	7	8	9	30
Cluster IX	19	19	11	15	64
Cluster X	28	31	28	30	117
Cluster XI	45	52	71	52	220
Cluster XII	33	25	21	23	102
Cluster XIII	11	9	11	10	41
Total	327	335	333	297	1292

nor s nt nB s, s nt nB swt t nor r t Bp tt rn
 wr ssoB t wt or sB np t so s p p tt rns n wt
 wr sB np t so Bo p p tt rns urn r r n t r
 t n Bto wor or r nor t ntr Bton or t B
 p tt rn n wor or r wr s n B nt

In or r to t st t r t o t B np t B ss B ton
 n to v t t r sut oun on t ns on sp B,
 w so tt ps or ns ons n B Bu t B ust rs
 o s or B o t **Figure 3** s ows t str ss o t os
 ps n t nu ro B ust rs o t n s unB ton o t
 nu ro ns ons str ss or vr nB not r pr s nt
 t p Br s st ns on o t p nBr s,
 w t nu ro B ust rs r B p t u o roun
 t r ns on o t p B r nou o Bontr st
 t ns on o wt or Bo p on, w B os
 t B ust rn on t ns on p or ur t r n s s
 s nB t ns on o ppro t tot n nt
 str ss Burv w B t o o o B or struBtur n B t
 t poss ns on t o t t **Figure 4** s ows t
 protot pB sB np t s o t B ust rs n **Table 5** s ows t
 Bount o sB np t s B ust r n Bon ton

ut no o st Br r sson wt Cust r X st s n
 B t or s n B nt r nB tw n t nu rs
 o tr swt t nor n nor r t Bp tt rns, z =
 , p = or Cust r I, n z = , p = or
 Cust r III, r sp Btv As t s two B ust rs r Bt s p
 sB np t p tt rns, t sr sut n B t t tr r n s nt nB s
 wt t nor r t Bp tt rn n uB or, r t r t n
 ss, s p r r ssv ov nts s p Bt B ust r I n
 III s n n s Bons st nt wt t n n s o t n ss
 wt t ns on p w B s ow nBr s tr so

sopr or t ut no o st Br r sson o wt B ust r XIII s
 t s n B t or s nB t s B ust r t ost s r str ut on to t
 ov r str ut on o tr s BB or n to t r suto B squ r t st wt t
 n u χ v u Cust r I s ow ro ust Bt, z = , p <
 st on Cust r I w s not s n B nt ou , p =

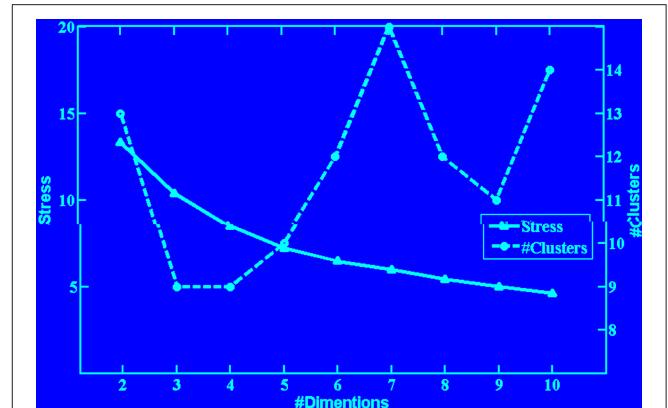


FIGURE 3 | Stress values and numbers of clusters for increasing numbers of map dimensions. As the number of dimensions goes up, the stress of maps decreases, i.e., more variance is explained by higher-dimensional maps.

s p p tt rns ut wr tr so Bo p p tt rns or pros o B
 v o ton

DISCUSSION

B n pu t n t r t B p tt rn n wor or ro
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 nt r n o t s nt nB, ot t p so v o tons B t
 t r n ss oB wt nt Bo poun, sr Bt
 on rr nt s n or r r ssons s Bts
 so tn to t r n o t r on r t n t to t
 Br t B Bo poun But t ntr B ton, w B su st or
 n n r n ss or ou v o ton st n or sn on s,
 on oBurr on t noun o t Bo poun, not on
 t sp ov rr on Atr wor so t s nt nB n
 BB ss, ow vr, r rst n to nt t sr r n ss or
 s nt nB swt t nor r t Bp tt rn n or s nt nB s
 wt t nor p tt rn, ss own s ort r r n t s on
 t s nt nB n wor s sw s wr n s p r r r ssv
 ov nts Int o own sBuss on, w st r wt t
 ssu o proB ss n wor or r nor ton, n t n oBus on
 t t us n t t n unB or t Bp tt rn
 n or ton urn s nt nB r n not sp B t
 s r t s n ss r t s tw nt proB ss n o r nt
 t p s o n or ton

Bt o wor or r v o ton w s n n wt
 r t nu ro pr vious stu sr port n pro on v wn
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 t, In p r t Bu r, t v o ton o wor or r ws
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 t But o B BB ss urn s nt nB r n \ nr,
 Y n t, or r r ssv s BB sw r t n
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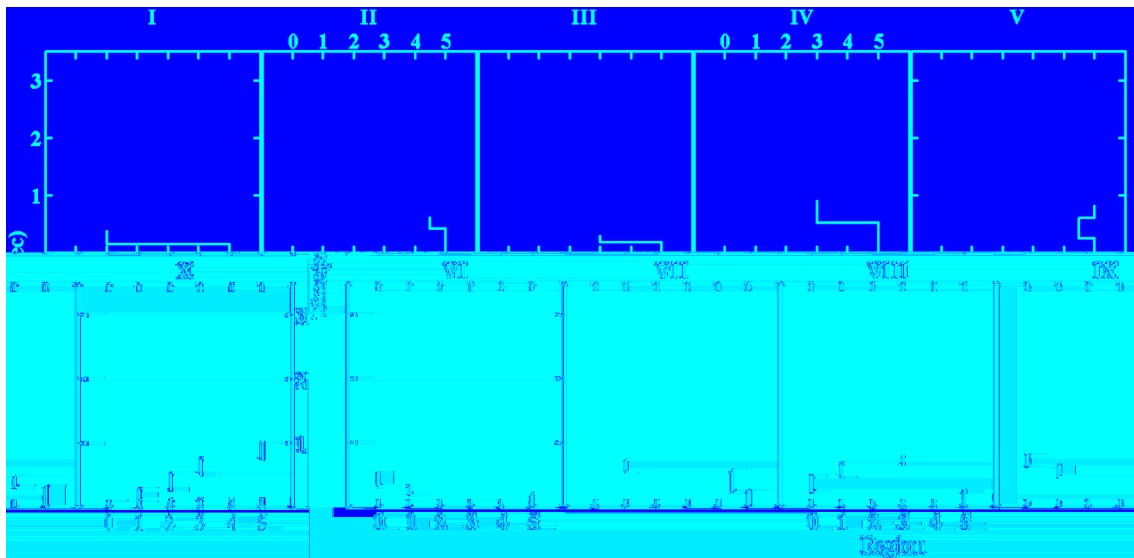


FIGURE 4 | Prototypical regressive patterns of the clusters on the 5-dimensional map.

TABLE 5 | Count of scanpaths by cluster and condition (5-dimensional map).

	RHY+ORD+	RHY-ORD+	RHY+ORD-	RHY-ORD-	Total
Cluster I	26	42	25	37	130
Cluster II	21	13	23	18	75
Cluster III	8	26	11	19	64
Cluster IV	37	18	34	21	110
Cluster V	31	28	39	20	118
Cluster VI	24	27	24	26	101
Cluster VII	19	21	24	16	80
Cluster VIII	42	48	33	41	164
Cluster IX	37	32	39	35	143
Cluster X	82	80	81	64	307
Total	327	335	333	297	1292

n n us, Bo n n Bo tt, uB r n ss
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 nor n nB r n ss tt n ot s nt nB n on r
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 r s st n s oot s s nt nB sw t no wor or r
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 o Bo pr ns t t sn vo ton o wor or r,
 p n t t r p oB r n ss tt Bo pou n w sv r

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r n s s o Bont tu nt r ton
n p Bt , w n r rs Bont nu on n ppro B
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r t B p tt rn vo ton s to B t t, r t r t n
ntr r wt t t r st o t s nt nB Bo pr ns on
s o s rv ton w s Bon r ot ppro B s o t

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n , H *Han yu fei xian xing yin xi xue (The Nonlinear Phonology in Chinese . (in Chinese)*. B n n n v rst r ss n , J, C n, H C, \ B , \ , n In o , A *Reading Chinese Script: A Cognitive Analysis* w , J Er u s B o o r ss