

P L W N+1 M , P W N+2 C R E

P U M Y R K
U U P U P

H S J P X Z
B N U P U

P w (PB) w w (., w N + 2) T
C
N + 2-w w w- w N + 1.T w ()
PB w N + 2 w () w w N + 1 w (.,
w N + 1 PB w N + 2), ()
w N + 1 w N.W
C w

T w .I
w (R & B , 1979). S
3 4 14 15
(M C & R ,
1975); w , 10 11
(M C & R , 1975) 7 8
(R , W , P , & B , 1982)
D C 1
2 3
C (T & M C , 1995; I & L , 1998). I
w w
N, w (.,
w N + 2) M
(H & F , 1990). H w

w N + 1 C
R N + 2 w R , J , B w
(2007) w w w
S (SAS)
E-ZR (R , P , F , & R , 1998; E
& K , 2001, SAS , R , L , &
P , 2007 , C)
w w N + 2
w w N + 1
w N + 2 w
N.I , w N + 1
w N + 2. O
(GAG) SWIFT (E , N ,
, R , & K , 2005) G (R & R , 2006)
A
GAG w
w N + 1 w
F N + 2 w w
SAS N + 2 w
w GAG (., A , S , Y , K ,
& R , 2008; D) B
w N + 2

M Y , D P , P U , D
P U P R K , D
P U P ; H S J P , S K
L C N , L B N U
; X Z , D P , P U
T w N , S F
C (60435010, 30770712) M S T
C (2010CB8339000) X Z , D F
(KL 955/8, KL955/15) R K R E
C P S F (20080440008) M Y W
w K R , E R , F
V , J Y
C R
K , D P , U P K -L
S . 24-25, 14476 P G E @

Experimental Evidence for and Against Processing of Word N + 2

E W

(= 25 ; = 7)

T S 40 w , w 0.9
 P4
 2.8 GH , W w XP
 80
 A w

Procedure

Sr w w
 T w , w
 A w
 E. , 1,
 w N w N + 1,
 w N + 2. D
 w w O 26
 w w S
 w 91% (= 7%). F
 A
 w w w
 A 131 (, 96
 35). A w
 w (= 4, =
 3), w w.

Data Analysis

D w 74 , T w
 (E & K , 2003). S
 w (, 5%). A w
 F
 w GD w FFD 60 600
 w (2%). F
 w ;
 w ; GD
 w
 I w
 w w
 w . E (LMM)
 (GLMM)
 w 4 (B , M , & D ,
 2008) R
 (R-C D T , 2008). W
 A
 ;

Results

Word N + 2 Region-Preview Benefits

Tw C () w
 w N + 2 () w
 A 5903
 w R w , w
 w 7 (= .029, = .010, = 2.9)
 FFD 12 (= .040, = .013, = 3.0) GD w
 N + 2. T w N + 2 ,
 w w (= 0.22, =
 0.11, = 2.0, < .05). W w
 w N + 2 .H w ,
 w
 (, < 1).
 A w (,
 < 1.2), w w
 w N + 1 FFD (= .013,
 = .006, = 2.3). D w N + 1
 w N + 2 (T 1
 F. , 2). S , I
 w w N + 1 w w (12
 ; = .042, = .013, = 3.2) , w w
 (3 ; = .016, = .015, = 1.1). T

T 1
 ()
 ()
 + 2, + I,
 (+ 2) + I

	T	P	w	
F	I	O	S	C
() W N + 2				
FFD-HF	269 (49)	284 (51)	278 (45)	282 (43)
FFD-LF	280 (46)	285 (53)	288 (49)	283 (50)
GD-HF	306 (63)	329 (66)	321 (70)	326 (60)
GD-LF	328 (77)	335 (82)	333 (75)	337 (75)
S. -HF	.13 (.14)	.11 (.12)	.11 (.13)	.10 (.12)
S. -LF	.13 (.13)	.14 (.12)	.14 (.14)	.12 (.14)
() W N + 1				
FFD-HF	246 (48)	261 (59)	252 (55)	260 (83)
FFD-LF	290 (62)	297 (61)	296 (66)	301 (63)
GD-HF	249 (53)	263 (60)	253 (55)	264 (86)
GD-LF	293 (63)	303 (62)	300 (66)	307 (63)
S. -HF	.58 (.18)	.63 (.17)	.61 (.17)	.60 (.16)
S. -LF	.50 (.18)	.50 (.17)	.43 (.18)	.46 (.19)
() W N				
FFD-HF	263 (46)	257 (42)	258 (39)	261 (46)
FFD-LF	264 (45)	261 (42)	263 (43)	268 (44)
GD-HF	289 (71)	287 (60)	291 (58)	288 (60)
GD-LF	303 (71)	295 (64)	305 (69)	306 (75)
S. -HF	.18 (.18)	.14 (.14)	.15 (.14)	.14 (.14)
S. -LF	.14 (.13)	.13 (.13)	.15 (.15)	.13 (.12)

HF = w ; LH = w- w . M

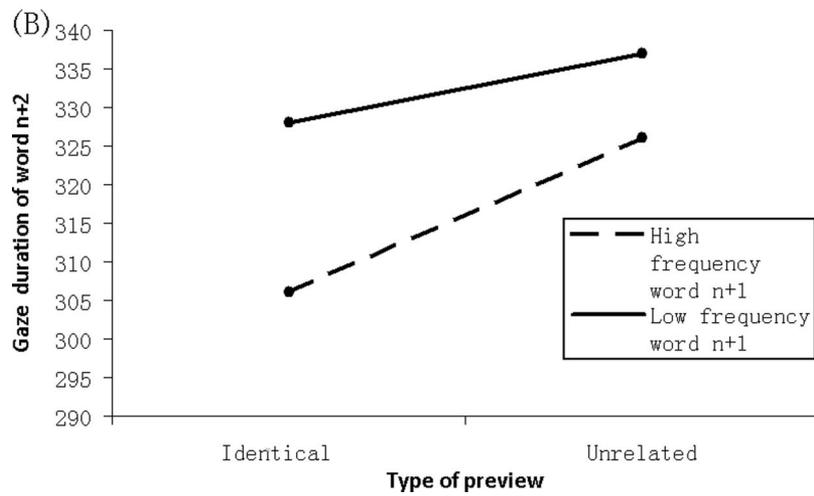
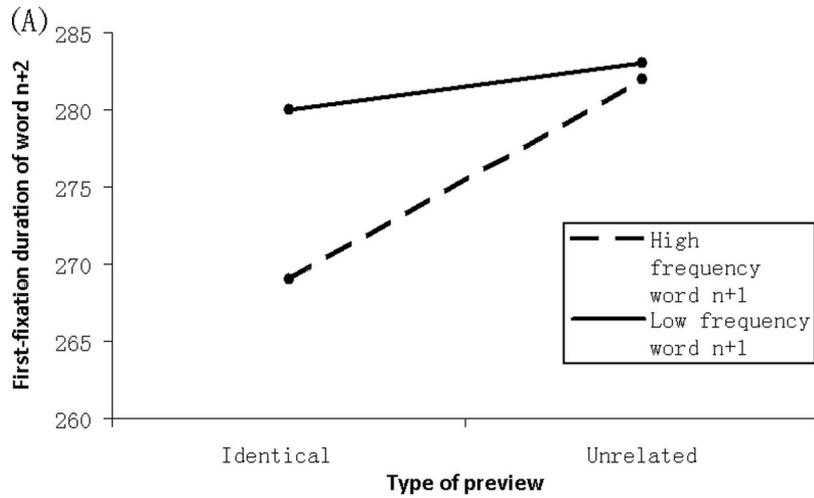


Figure 2. D (A) (B). w N + 1 w N + 2

GD PB (18.44; = (.033, = .029, = 1.2 = .066, = .039, = 1.7, .059, = .019, = 3.2) w- (6.44; = .024, = FFD GD ,). .020, = 1.2) w N + 1, w S , w , w (= 1.7). T w 20% (,) . T 2 (,) FFD GD w w w N + 1. 4700 T w PB F (89%) w N + 2 (= .029, = .011, = 2.5 = .049, = .015, = 3.2, FFD GD ,), PB w w N + 1 w (= .041, = .015, = 2.7 = .072, = .020, = 3.6, FFD GD ,), N + 2 (= .037, = .019, = 2.0 = .065, = .026, w w w , (= .018, = .017, = 1.1 = 2.5, FFD GD ,), PB w = .030, = .023, = 1.3, FFD GD , .024, = 1.9 = .066, = .034, = 2.0, FFD GD F , w w , w , w

T 2

(...), ... () + 2
 (A) 22 ... 0% ...

	T	P	w	
F	I	O	S	C
(A)				
FFD-HF	276 (39)	302 (43)	289 (30)	287 (29)
FFD-LF	284 (33)	296 (43)	307 (54)	289 (33)
GD-HF	326 (61)	347 (68)	353 (85)	342 (57)
GD-LF	332 (69)	363 (62)	365 (81)	353 (66)
(B)				
FFD-HF	264 (41)	276 (46)	274 (42)	276 (40)
FFD-LF	270 (38)	279 (42)	281 (47)	272 (42)
GD-HF	301 (59)	325 (69)	322 (75)	323 (59)
GD-LF	320 (72)	334 (76)	332 (75)	328 (75)
(C)				
FFD-HF	265 (41)	278 (45)	274 (41)	277 (39)
FFD-LF	273 (40)	278 (43)	281 (46)	276 (42)
GD-HF	302 (57)	323 (63)	316 (68)	320 (57)
GD-LF	321 (69)	328 (73)	325 (71)	329 (71)

HF = ... ; LH = ...
 ... (3461 ...)
 ... (= .035, = .013, = 2.7 = .046, = .019, = 2.4, FFD GD,)
 ... (= .019, = .008, = 2.5 = .019, = .011, = 1.8, FFD GD,)

Word N + 1 Region

Frequency effect. T ... FFD, GD, ...
 ... (54%) ...
 3105 ... T ...
 FFD (39 ... ; = .037, = .007, = 5.3),
 GD (41 ... ; = .037, = .008, = 4.5),
 (= 0.17, = 0.04, = 4.2, < .01). T

Relatedness effect. W ...
 ... (= 0.15, = 0.07, = 2.1, < .05),
 ...
 ... (< 2).

Preview benefit. O w N + 1, FFD ... (13 ... ; = .024, = .014, = 1.8) GD ... (14 ... ; = .029, = .014, = 2.1),
 ... N + 2 ... T ...
 ... K ... (2007).

Word N Region-Parafoveal-on-Foveal Effects

A ... w N + 2 ...
 w N.
Fixation durations. W N w ... FFD GD (5752 ...) ... w N w T 1.
 T w N + 1- FFD (5 ... ; = .006, = .002, = 2.9) GD (14 ... ; = .011, = .004, = 2.6) w N.H w ...
 ... (< 1.7).
First-fixation landing position. P ...
 ... w N + 1 (... , D ... , R ... , & P ... , 2008, ...
 W ... , I ... , & R ... , 2009). I ...
 POF ... w ... w w
 N w N + 1. U ...
 ... w 0.9
 ... (... w ... w
 N w w w),
 ... (< 1.3).

Discussion

T ... w
 ... (w N + 2) ...
 C ... T ... PB
 w N + 2 w () w w N +
 1 w ... (... w ...
 w N + 1 PB w N + 2), ()
 w N. T ...
 ... (Y ... , 2009). M ...

Preview Benefit for Word N + 2

T PB w N + 2 ...
 ... (A ... , 2008; K ...
 ... , 2007; M D ... , 2006; R ... , 2007). W w
 PB w N + 2 ...
 ... C ... P ...
 ... N + 2- ... P ... C ...
 ... PB w N + 1 (L ... , 2002; T ... ,
 2004; Y ... , 2009; Y ... , 2009). Y ... (2009)
 ... w N + 2 w (...
 ... FFD ... GD
 ...) PB w N + 2. T ...
 ... C ...
 ... /w N + 2 ...

W
 P
 N + 1. S
 GD (L
 PB
 H w
 N + 2. A
 C
 W W W
 W
 T PB w N + 2 w
 (R., 2007). SAS E-Z
 R PB w N + 2
 (R., 2007 ; R.
 , 1998). H w
 (., w
), w N w N +
 1 w N + 2 w
 N. I
 PB w N + 2 w N + 1 w
 SAS . O
 w N + 2 PB GAG
 SWIFT

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