



(D & , 2011; C & , 2011; & , 2006; , 2009; , 2009; , 2017; , & , 2011).

(A, C, & , 2012; C & , 2016; D & D , 2004; & , 2009; & , 2007)

(, & , 2016).

(, 2014; & , 2012; , C , & , 2013).

A

(C & , 2016; , & , 2015, 2017; , & , 2014; , 2016; & , 2012).

, C (2016)

() ()

(A , 2012; C & , 2016; & , 2007).

(& , 2009).

(& -B , 2012; & C , 2006).

(, A , & , 2012) (& -B , 2016; , 2011).

(, , & , 2017).

D

1,

2 3,

1,

Experiment 1

1

(1.6 1.6).

3

2.

Method

Participants

(11 ; : 19–26

; : 22.4 ;)

A

(

),

, & B (2007),

0.25 (

)

80%,

(

2 3). A

28,

(C & (2016;

& (2009)

(. ., 28)

2 3.

A

(0.4 0.4)

3

(B (1997; (2007) A AB

(A, A)

C

100 1,024 768

70

C AB (

28.5 / ²,

32.2 / ²,

78.4 / ²)

(: 1.4 1.4 ; : 1.6 1.6 ; : 1.4 1.4).

(2015, 2017)

A

1,

500 B

(0.4 0.4)

500

C

A 1-

150

100

(

(

10

A 1-

150

100

(

(

10

A 1-

150

2.

(

),

(0.2 0.2)

(0.2)

90%

(

10%

(

150

(0.8)

100

500 D

A

(0.4 0.4)

3

1.5

(

(1B)

(60%

),

(20%

),

(

(20%

),

100

(

(

10

A 1-

150

100

(

(

10

A 1-

150

100

(

(

10

A 1-

150

100

(

(

10

A 1-

150

100

(

(

10

A 1-

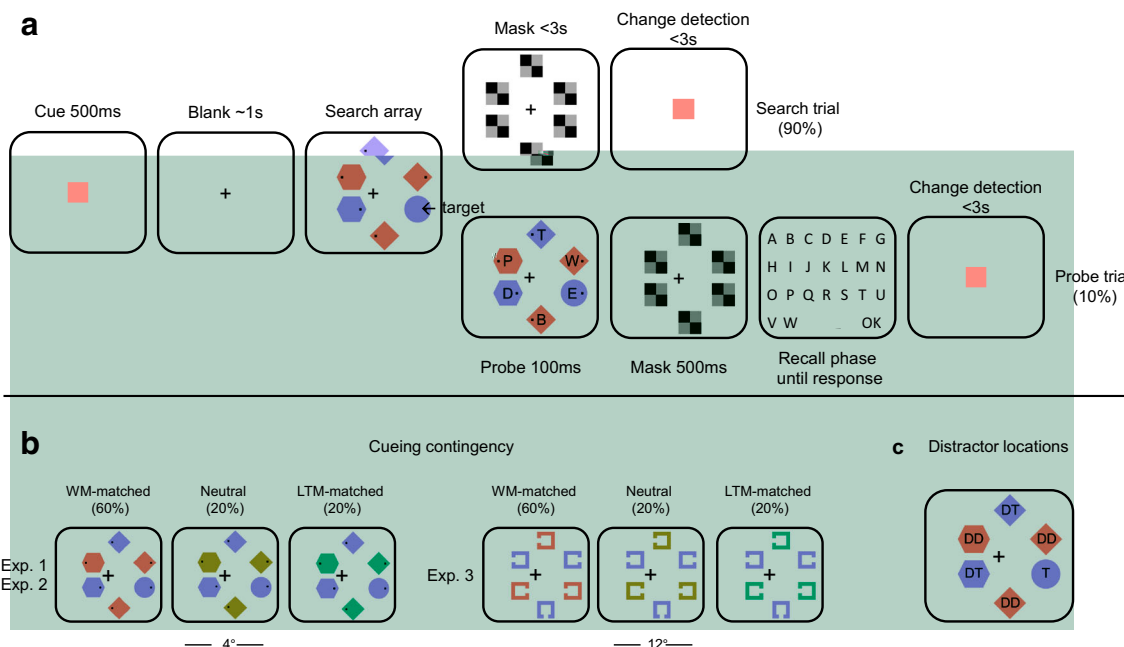


Fig. 1 (a) Trial structure. (b) Cueing contingency. (c) Distractor locations. **DD**, double distractor; **DT**, double target; **T**, target.

Data analysis

18.06%, 200, 2.5, 4.33%, 5.90%

Results

Search trials

A, B, $(F(2, 48) = 10.572, < .001, \eta^2 = 0.306)$, $(= .008)$

(< .001), 1, 2, 3, (), 3. (b), D, DD, (C & , 2016; , 2016), (C & , 2016), (, 20, 40, 60, 80, 100) (. 2), A A, $(F(4, 96) = 192.805, < .001, \eta^2 = 0.889)$, $(F(2, 48) = 10.415, < .001, \eta^2 = 0.303)$, $(F(8, 192) = 4.023, = .016, \eta^2 = 0.144)$, (< .05).

Condition

...)
 ... (... , 2012).
 A ...
 (... : $F(2, 48) = 1.649$, $p = .203$;
 ... : $F(2, 48) = 2.116$, $p = .132$,
 ... 1).

Probe trials

... 1.98
 ($F(2, 48) = 1.549$, $p = .223$, ... 2).
 ...
 (... 1):
 (... D), ... (...
 DD).
 ... 2.
 (... , D , ... DD)
 (... , ...)
 A A.
 ($F(2, 48) = 190.802$, $p < .001$, $\eta^2 =$
 .888) ... ($F(2, 48) = 0.569$, $p =$
 .570). C ... (F
 (4, 96) = 4.103, $p = .011$, $\eta^2 = .146$).
 ...
 ($F(2, 48) = .04$, $p = .963$),
 D ($F(2, 48) = 7.85$, $p < .001$, $\eta^2 = .258$).
 ($F(2, 48) = 9.63$, $p < .001$, $\eta^2 = .300$). A ... D ,
 ... (... = .010)
 ... (... = .009) ... A ... DD,
 ... (... < .001) ... (... = .043)
 ...
 ... ($F(2, 48) = 0.264$, $p =$
 .715, $F(2, 48) = 1.687$, $p = .196$, ...).

Discussion

...
 ...
 ... (2015),
 DD

C
 ($F(2, 48) = 7.587$, $p = .001$, $\eta^2 = .240$). C
 (... < .001) ... (... = .049)
 ... (... = .869).
 (...)

Table 1

		Condition 1			Condition 2		
		ACC	C	C	ACC	C	ACC
1		666 (83)	0.83 (0.09)	626 (105)	0.98 (0.02)	1074 (217)	0.96 (0.04)
		687 (85)	0.85 (0.08)	648 (110)	0.97 (0.02)	1122 (230)	0.97 (0.05)
		660 (87)	0.84 (0.09)	641 (102)	0.97 (0.02)	1083 (222)	0.96 (0.08)
2		690 (115)	0.77 (0.06)	541 (77)	0.94 (0.04)	935 (217)	0.79 (0.11)
		708 (127)	0.76 (0.06)	575 (85)	0.91 (0.06)	977 (224)	0.65 (0.18)
		703 (120)	0.77 (0.05)	588 (107)	0.90 (0.07)	973 (251)	0.68 (0.17)
3		813 (153)	0.74 (0.05)	532 (90)	0.95 (0.04)		
		822 (170)	0.74 (0.06)	543 (93)	0.91 (0.07)		
		828 (165)	0.73 (0.06)	570(115)	0.92 (0.08)		

D

Stimuli and apparatus

Experiment 2

2

Procedure

1 2

Method

Participants

(10 ; : 18–28 ; : 22.3 ;) . A

500

1

(F (5, 120) = 7.716, < .001, $\eta^2 = .243$).

Table 2

		D		D	
		(D)	(DD)	(D)	(DD)
1		0.67 (0.15)	0.25 (0.09)	0.28 (0.11)	
		0.68 (0.19)	0.32 (0.12)	0.22 (0.11)	
		0.67 (0.19)	0.24 (0.11)	0.26 (0.11)	
2		0.47 (0.16)	0.20 (0.11)	0.20(0.11)	
		0.46 (0.18)	0.21 (0.12)	0.20 (0.11)	
		0.50 (0.21)	0.24 (0.15)	0.18 (0.12)	

100 200
137
(39%)
1.

Data analysis

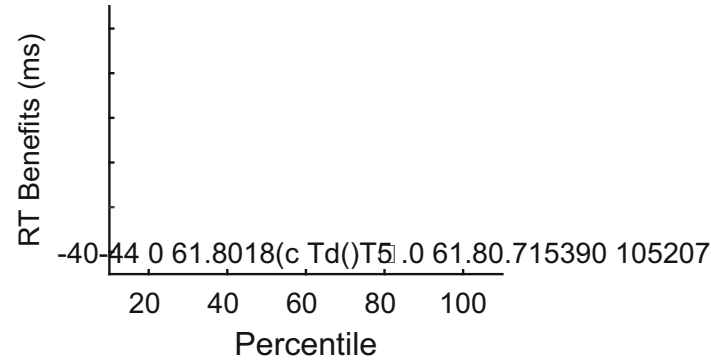
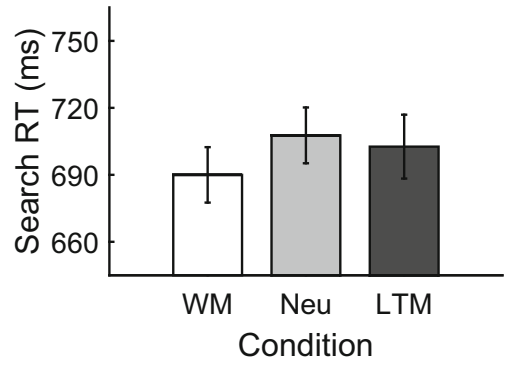
1, 28.4%
, 4.81% 4.72%

Results

Search trials

($F(2, 54) = 1.845$,
= .168, $\eta^2 = .3$). ($F(2, 54) = 0.936$, =
.398). A 1,
(.3).
($F(4, 108) = 149.413$, <
.001, $\eta^2 = 0.847$),
($F(2, 54) = 1.876$, = .163),
($F(8, 216) = 6.707$,
= .001, $\eta^2 = 0.199$),
($F(2, 54) = 5.04$, = .010, $\eta^2 = 0.157$) (F
(2, 54) = 6.15, = .004, $\eta^2 = 0.186$)
(= .016).
(= .006) (= .027)

C 1,
($F(2, 54) = 18.836$, < .001, $\eta^2 = 0.411$).
($F(2, 54) = 14.192$, < .001, $\eta^2 = 0.345$)
(< .001).
(< .001).
(< .001).



Probe trials

1.49
($F(2, 54) = 0.332$, = .719).
A A (.3 . A

($F(2, 54) = 91.432, < .001, \eta^2 = .772$),
 ($F(2, 54) = 1.989, = .147$)
 ($F(4, 108) = 1.627, = .188$).
 D DD
 ($< .001$). A
 ($F(2, 54) = 0.936, = 0.378$),
 ($F(2, 54) = 11.197, < .001, \eta^2 = 0.293$).
 ($< .001$) ($= .002$)

Discussion

(C & ,
 2016; & B , 2016; , 2016).
 A
 A
 (& , 2017).

2

Experiment 3

3,
 (12 12
 4 4 1 2) (, & , 2009;
 , 2005; & , 2007).
 (D & D , 1995).

Method

Participants

(; : 18–27
 ; : 21.3 ;) A

Stimuli and apparatus

2,
 (0.6 0.6)

Procedure

A , 1- ,
 (0.12 0.12) . D
 6
 8 () , 0
 () ,
 2,

500

2.

280 C

1000 (1,000)

100

3.

Data analysis

1, 30.30%

, 2.20% 4.06%

Results

D

($F(2, 54) = 0.681, \eta^2 = .462, p = .4$) ($F(2, 54) = 1.403, \eta^2 = .255$). A ($F(4, 108) = 220.957, p < .001, \eta^2 = .891$), ($F(8, 216) = 2.919, \eta^2 = .051, \eta^2 = 0.098$), ($F(2, 54) = 0.680, \eta^2 = .463$).

($F(2, 54) = 8.797, p < .001, \eta^2 = 0.246$) ($F(2, 54) = 13.835, p < .001, \eta^2 = 0.339$). C

($p = .001$) ($p = .033$)

C

($p \leq .001$).

Discussion

2

A

2

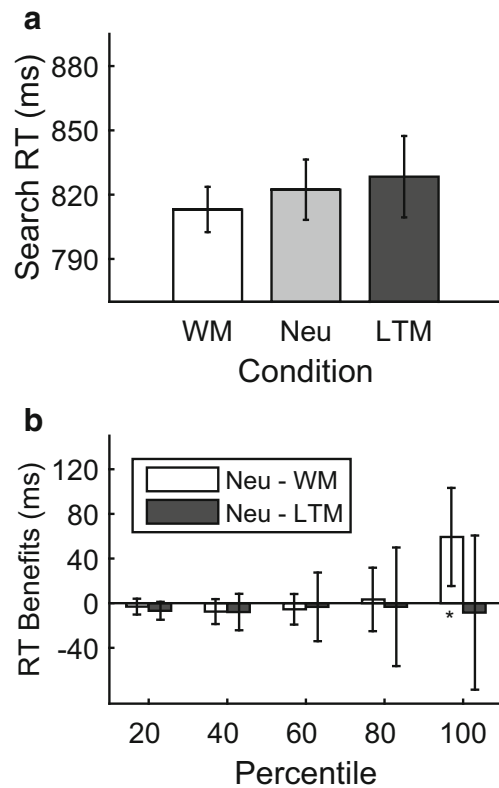


Fig. 4

3. (a)

(b) 95% (** $< .05$, ** $< .01$, *** $< .001$)

General discussion

(B, 1992; D' & 2015).

1

2

3,

A (A, B, & C, 2011; B, & C, 2015; C, 1992).
 (A, B, & C, 2006; D, 2005; E, 2010).
 (D & E, 2011; A, B, & C, 2012; D, 2009; E, 2007).
 1,
 (C & D, 2016; E, 2015),
 1,
 C (2016)
 (A, 2009) (B & C, 2008).
 1,
 (C & D, 2016; E, 2016),
 2 3,
 (2009).
 B (B, C & D, 2007; E, 2012).
 1,
 2 3,
 1,
 (A & B, 1997).
 (A & B, 1968; C & D, 1974)
 (E & F, 2017),
 (C & D, 2017; E & F, 2016).
 150 1,
 150–300 (A, 2014; B & C, 2012; D, 2010).
 (C & D, 2017; E & F, 2016).

(...)

1. 2 3,

(, 2014).

(C... A...), 76-106,

B... C. (1990). A... 97(4), 523.

C... B., & ... (2011).

C... J... 23(10), 2650-2664.

C... & D... (2017).

Acknowledgements

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References

A... B. A., ... A., & ... (2011). A... 108(25), 10367-10371.

A... C... B., & ... (2012). J... 38(3), 580-584.

A... C., & ... (1968). A... 2, 89-195.

B... A. (1992). 255(5044), 556-559.

B... A. D., & ... (1974). 8, 47-89.

B... D. (1997). 10(4), 433-436.

B... (2012). A... 16(2), 106-113.

B... & B... C. (2007). D

42(5), 648.
 A., & D. (2012). C &
 19(4), 639–646.
 B., D., D., A., & B.
 C. (2007). -3. 36(14), 1.
 C., & (2017).
 7(1), 16314.
 (1997).
 390(6657), 279.
 C., D., & D. (2010).
 50(16), 1590–1597.
 & (2012). C
 A & 74(8),
 1590–1605.
 B., & B. (2014).
 25(2), 315–324.
 A., A., C., B., &
 (2016). D
 J 36(6), 1797–
 1807.
 C. (2009). ?
 E : H
 35(5), 1275.
 C. (2011).
 A 137(2), 243–247.
 C., & (2006).
 J E : H
 32(5), 1243.
 C., & (2011).
 D 15(7), 327–334.
 C., & (2009).
 J C 21(6), 1081–1091.
 B., A., & (2015). A
 C 29(4), 687–694.
 D., D., & B. (2005).
 J E : H
 31(2), 248.
 D., & (2008).
 A 12(9), 342–348.
 D., & (2007). A
 J E
 H 33(3), 730.
 D., & (2008).
 A &
 70(5), 924–934.
 D., & (2009). A
 E 56(3), 165–172.
 A., & A. C. (2012).
 A 109(6), 360–367.
 (1992). A
 & 51(6), 599–606.
 (2010).
 A 135(2), 77–99.
 & (1994). A
 J E
 47A, 631–650.
 D. B., & (2012). & 19(5),
 871–878.
 (1994). 2.0
 & 1(2), 202–238.
 C., B., & (2013).
 ? J
 13(3), 1–1.
 & C. (2006).
 C 14(4–8),
 808–830.
 & (2007). D
 ? J E : H
 33(2), 363.
 D., -B., B., C., & (2008).
 J C 20(8), 1371–1380.