



Experiment 1

Method

Participants

Apparatus and materials

Design and procedure

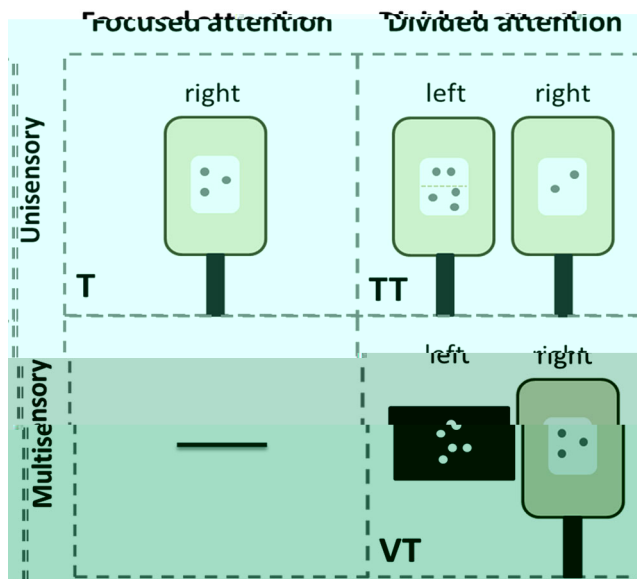


Fig. 1

V^T TT

T $($ $)$ T $($ $)$

$($ $)$ $($ $)$ T $($ $)$

$($ $)$ T $($ $)$ T $($ $)$

$\&$ T T

Results

$($ $)$ $($ $)$ $($ $)$ $($ $)$

$($ $)$ $($ $)$ $($ $)$ $($ $)$

$($ $)$ $($ $)$ $($ $)$ $($ $)$

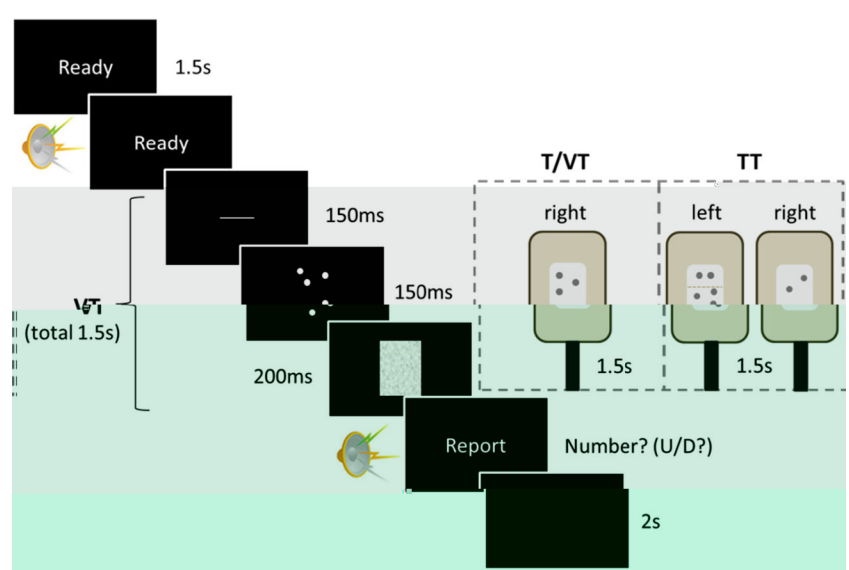


Fig. 2

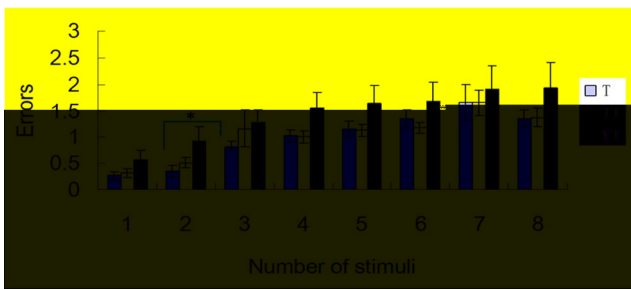


Fig. 5

Method

Participants

Design

Results

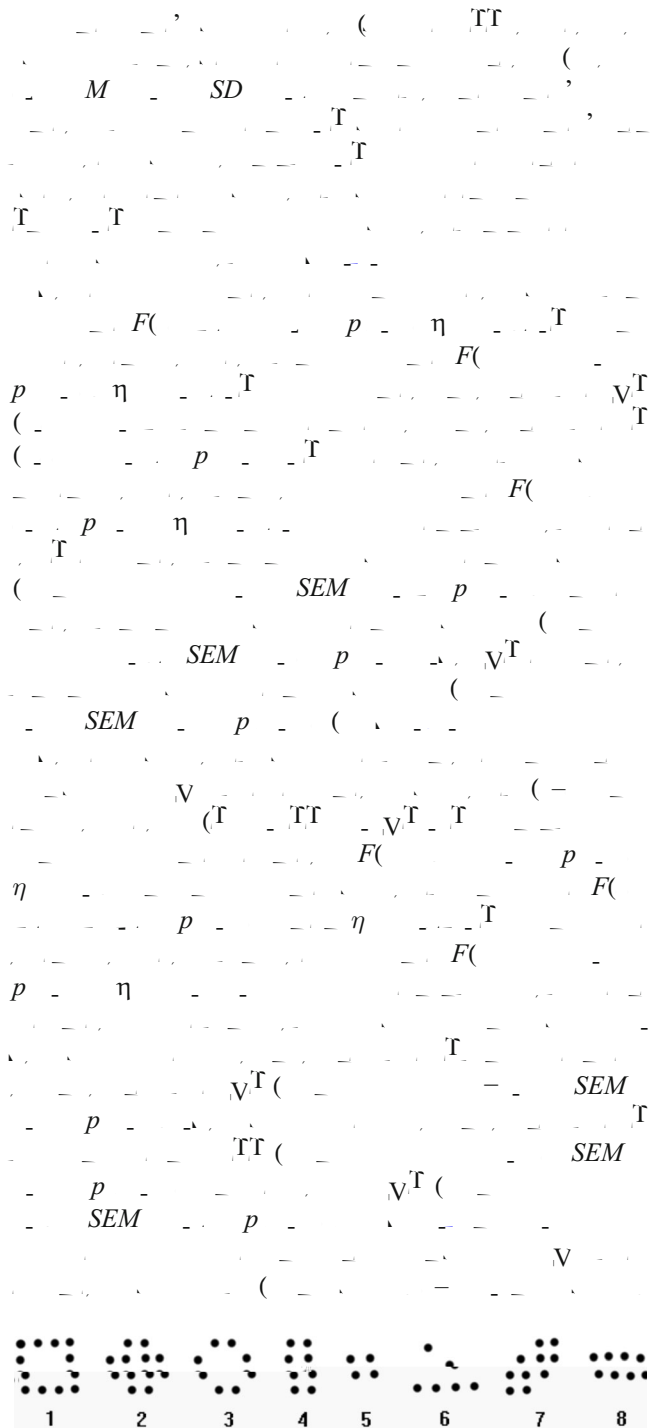


Fig. 6

Table 2

N	T	TT	VT
1	(. . .)	(. . .)	(. . .)
2	(. . .)	(. . .)	(. . .)
3	(. . .)	(. . .)	(. . .)
4	(. . .)	(. . .)	(. . .)
5	(. . .)	(. . .)	(. . .)
6	(. . .)	(. . .)	(. . .)
7	(. . .)	(. . .)	(. . .)
8	(. . .)	(. . .)	(. . .)
9	(. . .)	(. . .)	(. . .)
10	(. . .)	(. . .)	(. . .)
11	(. . .)	(. . .)	(. . .)
12	(. . .)	(. . .)	(. . .)

Note. N

$F(T, TT, VT) = p, \eta^2 = . . .$
 $F(T) = p, \eta^2 = . . .$
 $F(TT) = p, \eta^2 = . . .$
 $F(VT) = p, \eta^2 = . . .$
 $t = . . ., p = . . .$
 $r = . . ., p = . . .$
 (M, SEM)

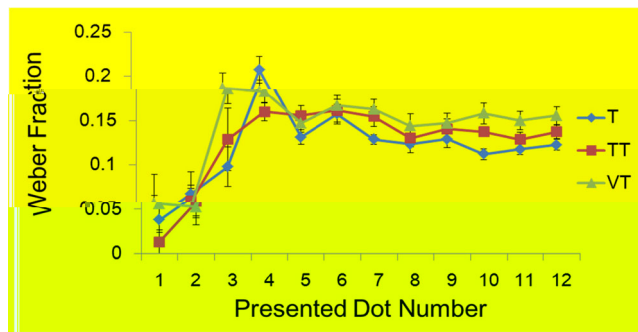


Fig. 7

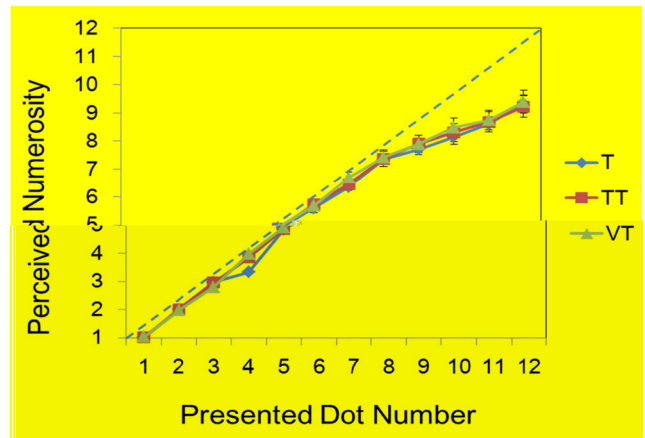


Fig. 8

(M, SEM)
 $t = . . ., p = . . .$
 (T, TT, VT)
 (T, TT)
 (VT, TT)
 (r, p)
 (M, SEM)

Discussion

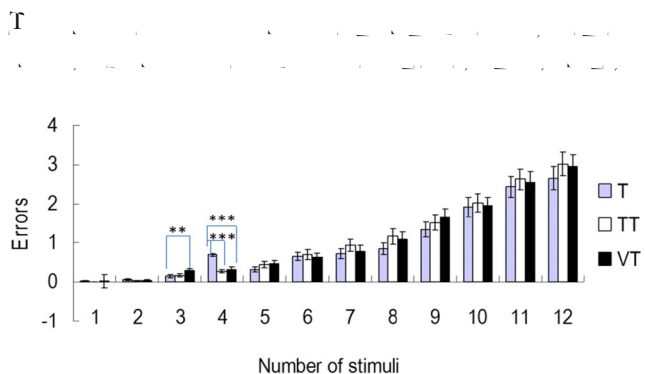


Fig. 9

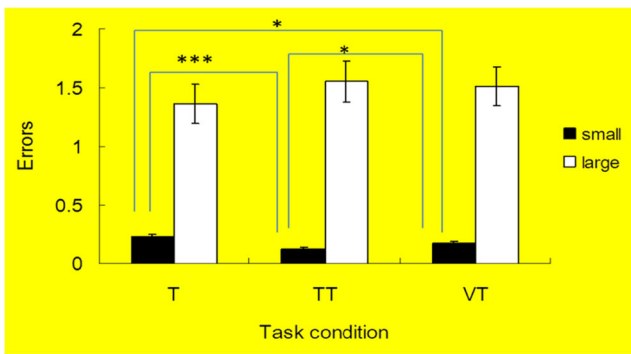


Fig. 10

p p p

subitizing

numerosity estimation

V^T TT T

V^T TT T

T

T

$($

$\&$ T $\&$

$($

$\&$ $\&$ $\&$

$\&$

$($

TT

$($

T $\&$

TT

$($ V^T

V

$($ T

T

$\&$ $\&$ $($

T $\&$

$(TT - V^T$

$'$ $($

Table 3

	$V^T - T$	$V^T - TT$	$TT - T$	$TT - TT$	$V^T - TT$	$V^T - TT$
r	--	--	--	--	--	--
r	--	--	--	--	--	--

Note. r ... p

Acknowledgements

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Appendix

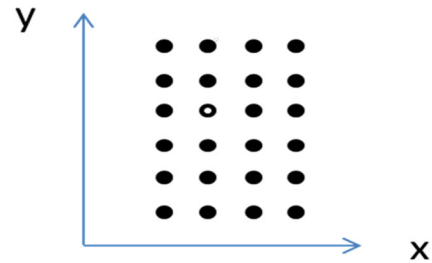


Fig. 11

[illegible text]

[illegible text]

[illegible text]

[illegible text]

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[illegible text]

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References

Barbur, J. L., & Wandell, M. A. (1995). *Proceedings of the Royal Society B: Biological Sciences*, 273(1523), 1087-1093.

Bauer, G. I., & Gauthier, I. (2004). *Vision Research*, 74(1), 1-10.

Bauer, G. I., & Gauthier, I. (2007). *Journal of Cognitive Neuroscience*, 19(1), 1-10.

Bauer, G. I., & Gauthier, I. (2008). *Frontiers in Psychology*, 2(1), 1-10.

Bauer, G. I., & Gauthier, I. (2010). *Spatial Vision*, 10(1), 1-10.

Bauer, G. I., & Gauthier, I. (2011). *Seeing and Perceiving*, 24(1), 1-10.

Bauer, G. I., & Gauthier, I. (2012). *Journal of Vision*, 10(1), 1-10.

Bauer, G. I., & Gauthier, I. (2013). *Journal of Philosophy*, 106(1), 1-10.

Bauer, G. I., & Gauthier, I. (2014). *Nature Communications*, 7(1), 1-10.

Bauer, G. I., & Gauthier, I. (2015). *Nature Reviews Neuroscience*, 3(1), 1-10.

Bauer, G. I., & Gauthier, I. (2016). *Quarterly Journal of Experimental Psychology (Hove)*, 62(1), 1-10.

Bauer, G. I., & Gauthier, I. (2017). *Science*, 291(1), 1-10.

Bauer, G. I. (2018). *The number sense: How the mind creates mathematics* (1), 1-10.

Bauer, G. I., & Gauthier, I. (2019). *Journal of Cognitive Neuroscience*, 5(1), 1-10.

Bauer, G. I., & Gauthier, I. (2020). *Crossmodal space and crossmodal attention* (1), 1-10.

Bauer, G. I., & Gauthier, I. (2021). *Trends in Cognitive Science*, 8(1), 1-10.

Bauer, G. I., & Gauthier, I. (2022). *Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*, 50(1), 1-10.

Bauer, G. I., & Gauthier, I. (2023). *Perception*, 35(1), 1-10.

Bauer, G. I., & Gauthier, I. (2024). *Perception & Psychophysics*, 69(1), 1-10.

Bauer, G. I., & Gauthier, I. (2025). *Perception*, 37(1), 1-10.

Bauer, G. I., & Gauthier, I. (2026). *Presence*, 16(1), 1-10.

Bauer, G. I., & Gauthier, I. (2027). *Proceedings of the Royal Society B: Biological Sciences*, 270(1), 1-10.

Bauer, G. I., & Gauthier, I. (2028). *PLoS ONE*, 2(1), 1-10.

Bauer, G. I., & Gauthier, I. (2029). *Accident Analysis & Prevention*, 38(1), 1-10.

Bauer, G. I., & Gauthier, I. (2030). *Transportation Research Part F-Traffic Psychology and Behaviour*, 8(1), 1-10.

Bauer, G. I., & Gauthier, I. (2031). *Frontiers in Human Neuroscience*, 5(1), 1-10.

Bauer, G. I., & Gauthier, I. (2032). *Developmental Science*, 14(1), 1-10.

Bauer, G. I., & Gauthier, I. (2033). *Journal of Cognitive Neuroscience*, 23(1), 1-10.

Bauer, G. I., & Gauthier, I. (2034). *Cognitive Psychology*, 72(1), 1-10.

Bauer, G. I., & Gauthier, I. (2035). *Neuroscience Letters*, 369(1), 1-10.

Bauer, G. I., & Gauthier, I. (2036). *NeuroImage*, 142(1), 1-10.

Bauer, G. I., & Gauthier, I. (2037). *Journal of Cognitive Neuroscience*, 29(1), 1-10.

Bauer, G. I., & Gauthier, I. (2038). *Proceedings of the National Academy of Sciences of the United States of America*, 102(1), 1-10.

Bauer, G. I., & Gauthier, I. (2039). *Perception*, 36(1), 1-10.

Bauer, G. I., & Gauthier, I. (2040). *Attention, Perception, & Psychophysics*, 76(1), 1-10.

... & ... (... *Journal of Experimental Psychology: Human Perception and Performance*, 39(...)

... (... *Acta Psychologica*, 172

... & ... (... *Journal of General Psychology*, 142(...)

... & ... (... *Perception & Psychophysics*, 65(...)

... (... *Journal of Experimental Psychology: Human Perception and Performance*, 21(...)

... (... *Trends in Cognitive Science*, 9(...)

... & ... (... *Perception & Psychophysics*, 65(...)

... & ... (... *Perception & Psychophysics*, 56(...)

... & ... (... *Communications of the ACM*, 46(...)

... & ... (... *Spatial Vision*, 10(...)

... (... *Trends in Cognitive Science*, 14(...)

... & ... (... *Cognition*, 121(...)

... & ... (... *Nature Reviews Neuroscience*, 3(...)

... & ... (... *Journal of the Acoustical Society of America*, 82(...)

... & ... (... *Brain and Cognition*, 82(...)

... & ... (... *Experimental Brain Research*, 234(...)

... & ... (... *Nature*, 415(...)

... & ... (... *Perception & Psychophysics*, 63(...)

... & ... (... *Journal of Experimental Psychology: General*, 130(...)

... & ... (... *Journal of Neuroscience*, 34(...)

... & ... (... *Perception & Psychophysics*, 65(...)

... & ... (... *Journal of Cognitive Neuroscience*, 23(...)