Sequential Effects of Prime-Target Compatibility in a Masked Prime Task
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Background
Direction of masked prime effects depend on prime-target ISI:
- 0 ms: positive compatibility effect (PCE)
- 150 ms: negative compatibility effect (NCE)

Methods
Baseline
Prime 33 ms
Target 100 ms
ITI 1950 ms

0 ms ISI
Prime 33 ms
Mask or Frame 100 ms
ITI 1917 ms

150 ms ISI
Prime 33 ms
Mask or Frame 100 ms
Blank 50 ms
Target 100 ms
ITI 1767 ms

Aims
Are compatibility effects a purely within-trial phenomenon, or do they carry over to subsequent trials?
Is there a carry-over difference between masked (subliminal) versus unmasked (supraliminal) primes?

Results 1 – Mean RT Effects

Results 2 – Compatibility Repetition Effects

Results 3 – Response Repetition Effects

References

Compatibility effects are a within-trial phenomenon – with one exception:
Compatible non-masked primes preceding the target by 150 ms induce a biased facilitation of subsequent compatible trials.

Response repetition effects are identical for unprimed and masked prime trials, but are substantially reduced at lags 1 and 2 on non-masked prime trials.