

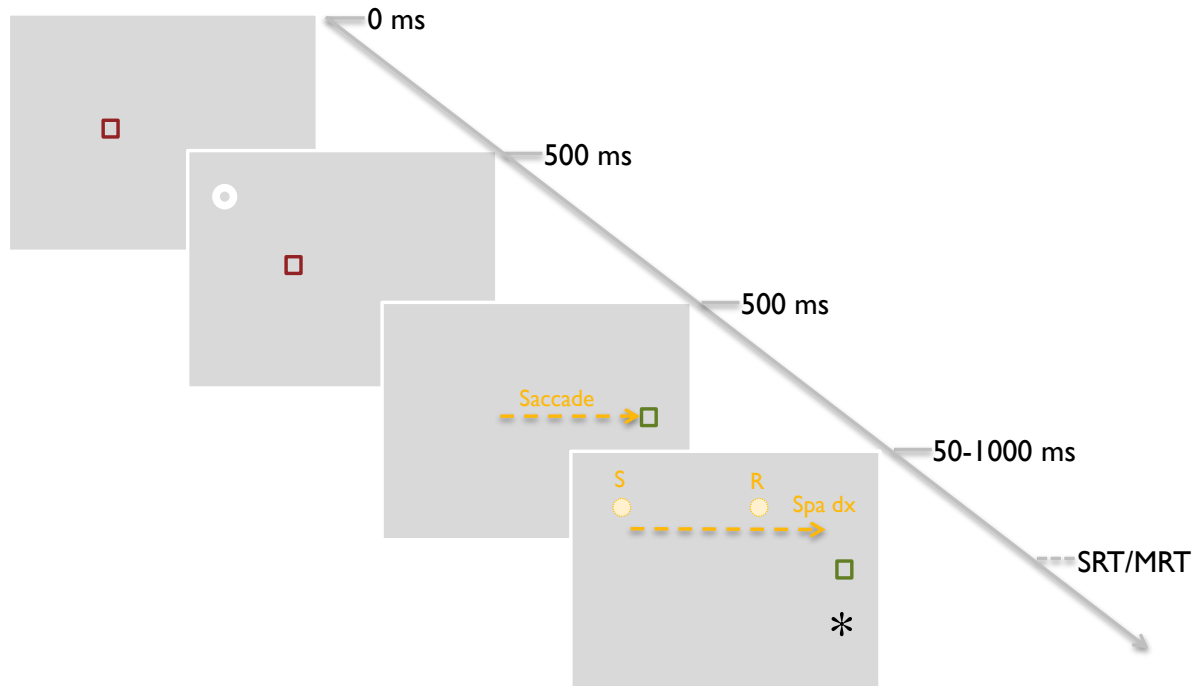
The spatio-temporal gradient and the frame of reference for inhibition of return

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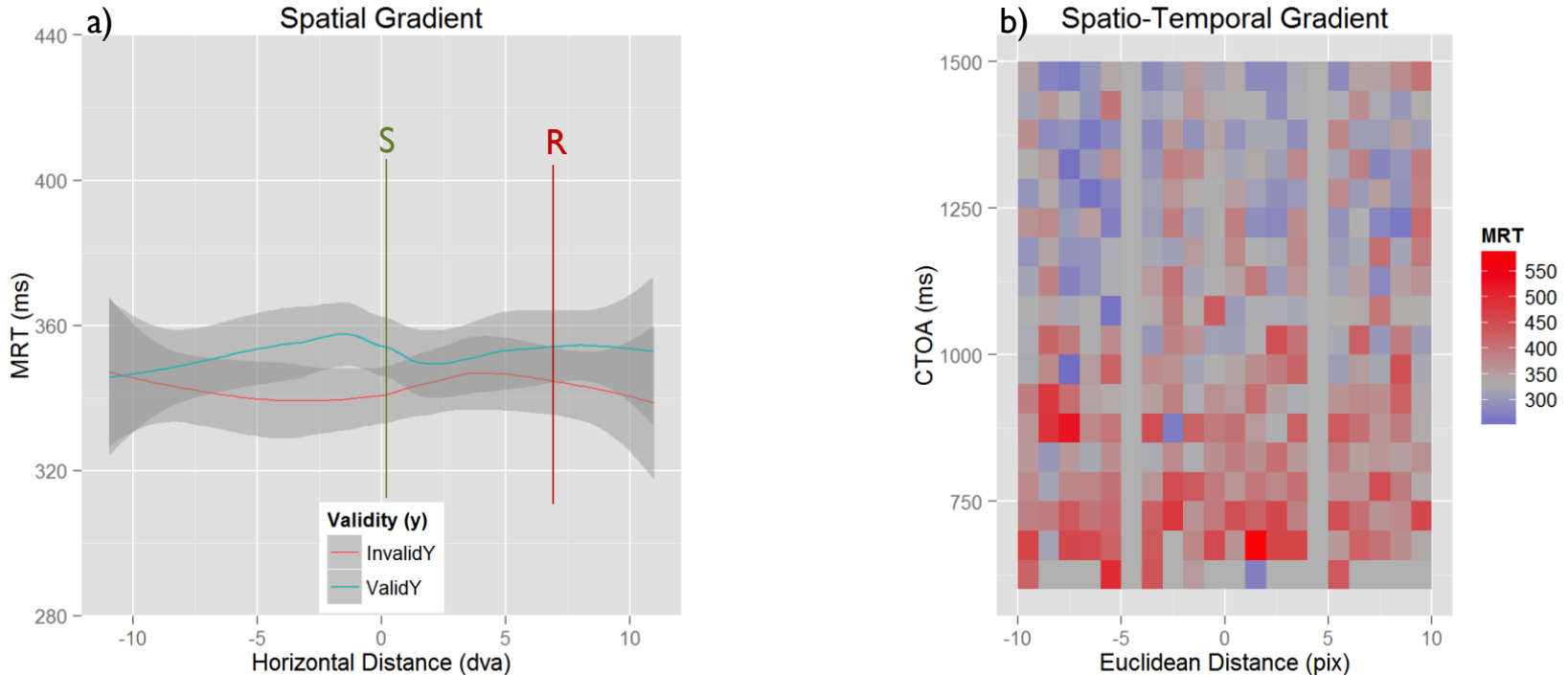
October 20, 2017

Experiments 1&2



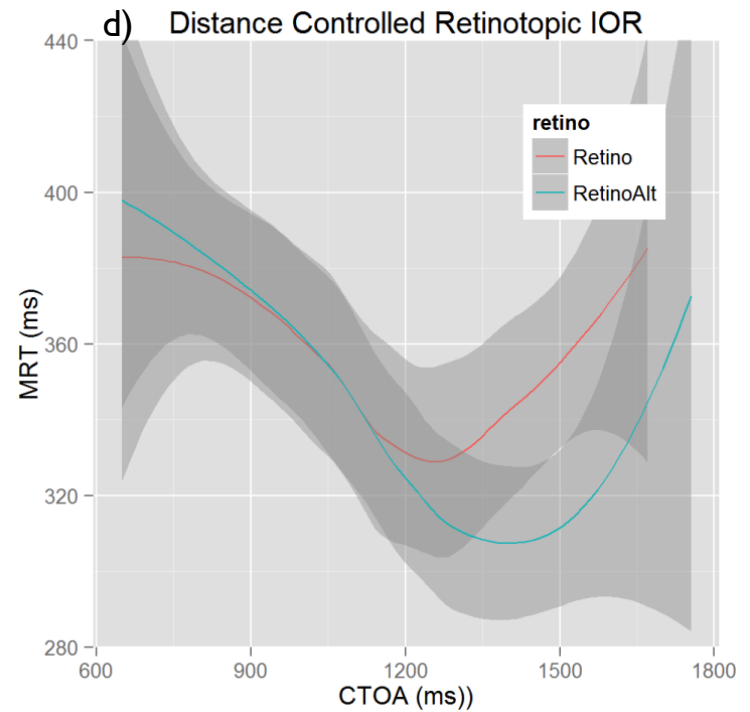
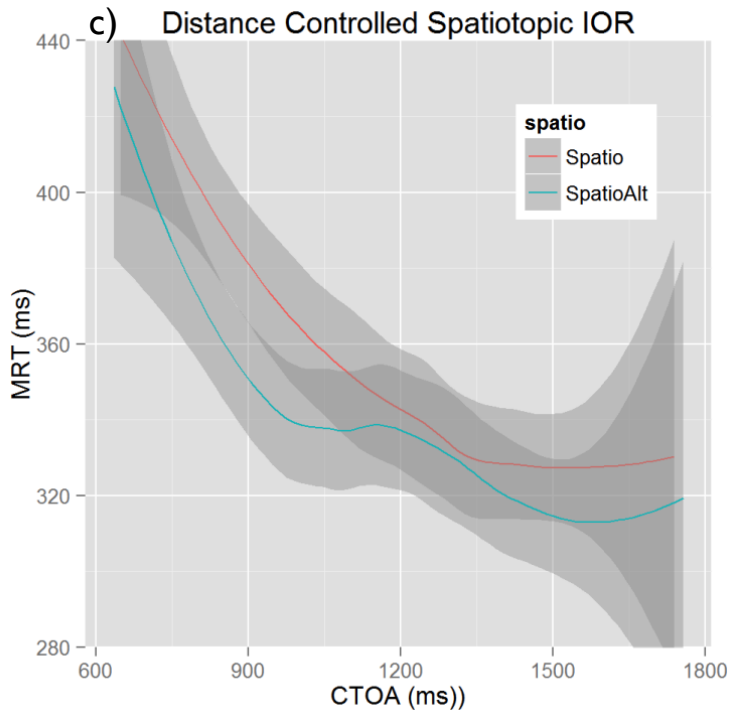
Time course for Experiments 1 and 2 showing trial with a rightward saccade and the cue in the top-left position. S denotes the location of expected spatiotopic IOR, and R denotes the expected location of retinotopic IOR. Horizontal distance is measured as the signed spatial distance between cue and probe with positive numbers in the direction of the retinotopic location.

Results



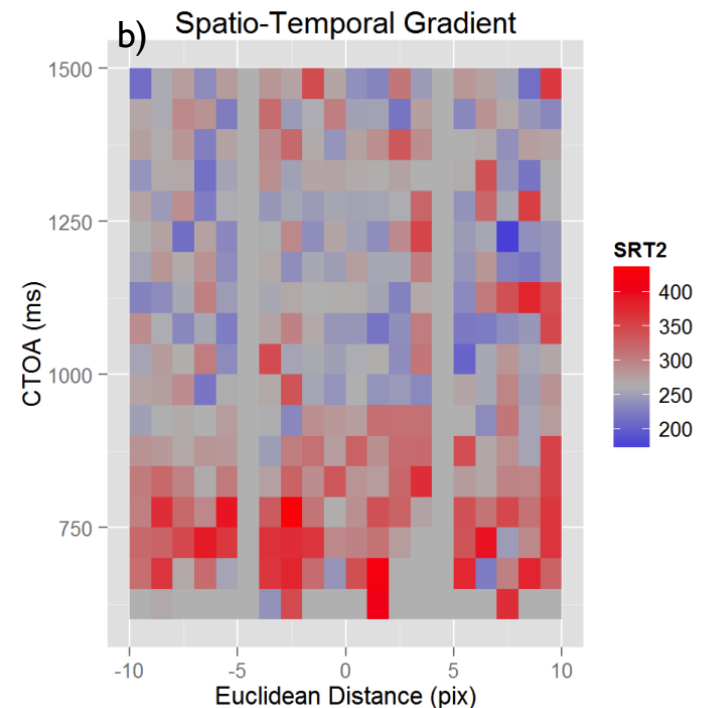
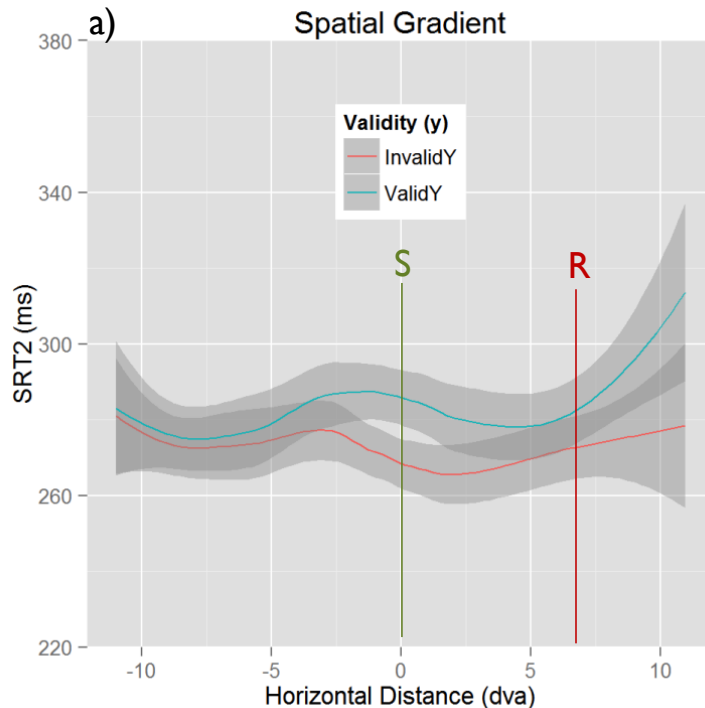
a) Polynomial plot (LOESS) of MRTs for horizontal distance by validity. The signed Horizontal distance is subtracted from the spatiotopic cued location (0°) so that positive numbers are toward the retinotopic location (at 7.1°). Shaded areas represent 95% CI. Heat plot (b) of MRT over distance from the cued spatiotopic location over all probe onsets (CTOA). Retinotopic location is again at $+7.1^\circ$.

Results



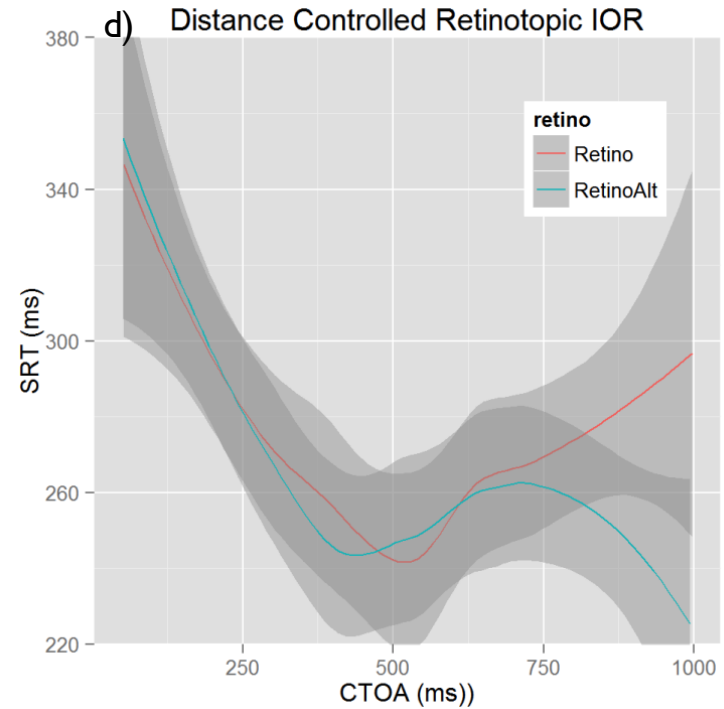
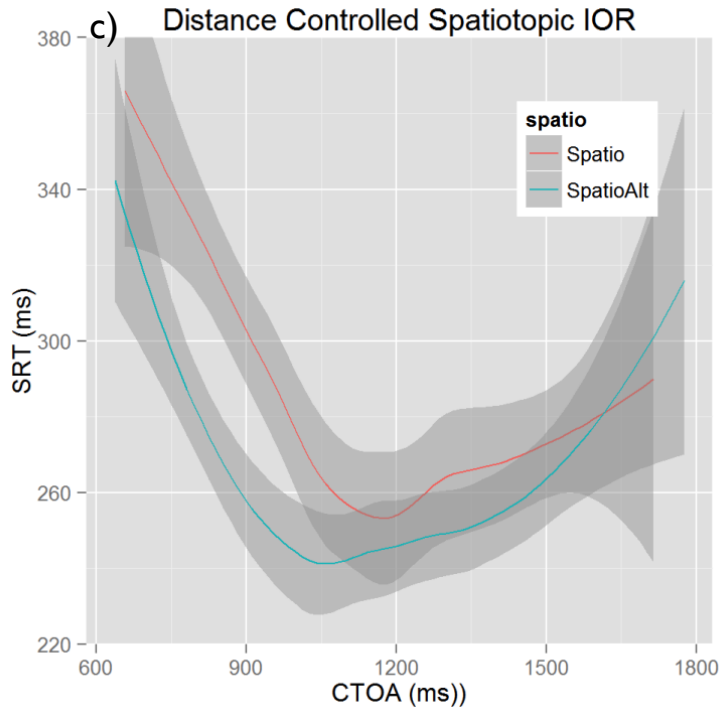
Plot of IOR (validity) over all CTOA's for probes near the Spatiotopic (c) and Retinotopic (d) locations.

Results



a) Polynomial plot (LOESS) of saccadic reaction times (SRT) for horizontal distance by validity. The signed Horizontal distance is subtracted from the spatiotopic cued location (0°) so that positive numbers are toward the retinotopic location (at 7.1°). Shaded areas represent 95% CI. Heat plot (b) of saccadic reaction time over distance from the cued spatiotopic location over all probe onsets (CTOA). Retinotopic location is again at $+7.1^\circ$.

Results



Retinotopic location is again at $+7.1^\circ$. Plot of IOR (validity) over all CTOA's for probes near the Spatiotopic (c) and Retinotopic (d) locations.

Thank you!