





















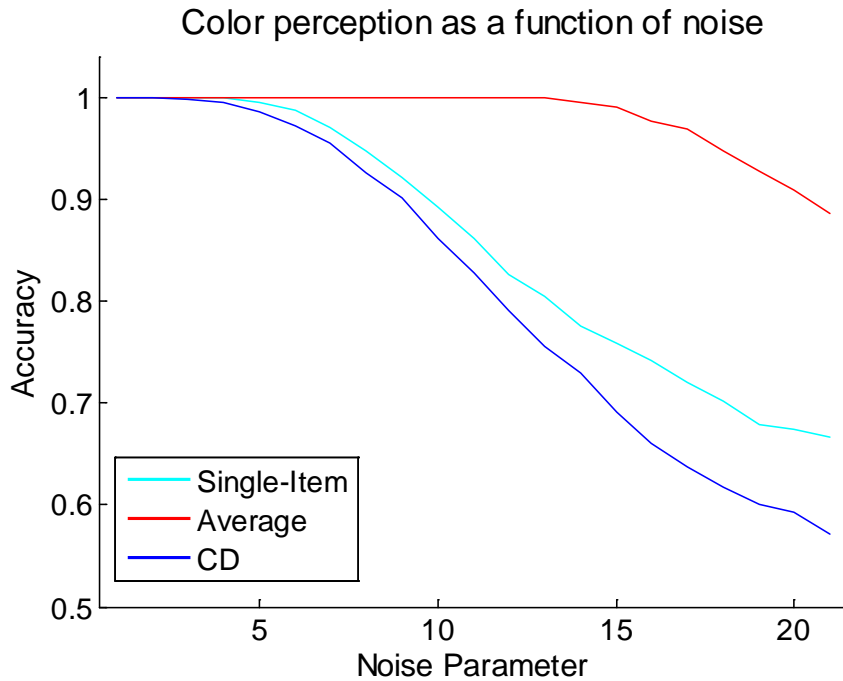








mean of sums across trials. Again we use the ideal observer assumptions. The results are shown in Figure S8, and are consistent with the ones obtained in the conceptual model.



*Figure S10 – Simulation-2 results of accuracy as a function of perceptual noise in single-item color estimation (cyan), average-color estimation (red) and color-diversity estimation (blue); the noise parameter is the 0.5 STD of the Gaussian tuning curves*

*Taken together, these computational studies suggest that much like the identification of a single items' color and unlike the estimations of the average-color, above-chance estimations of color-diversity must rely on a relatively high ratio of signal to noise at the perceptual level.*