

Meaningful scenes elicit meaningful scanpaths

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When trying to predict where the eyes will go next in the free exploration of real-world scenes, recent models have focused on the analysis of visual stimulus properties in order to compute the priority that will be assigned to a given scene component or object. Possible influences on gaze control that are rooted in the meaning of the scene and the semantic relation of the scene to the objects in it, have been regarded as elusive and mostly relevant to later stages of scene exploration. In the present contribution, I would like to change that view by presenting eye-tracking data recorded in intentional search and exogenous cuing paradigms, which demonstrate reliable and immediate context effects on eye guidance in meaningful scenes. These data will be confronted with some recent theoretical developments to provide an updated framework for thinking about influences of object-in-scene semantics on gaze control.