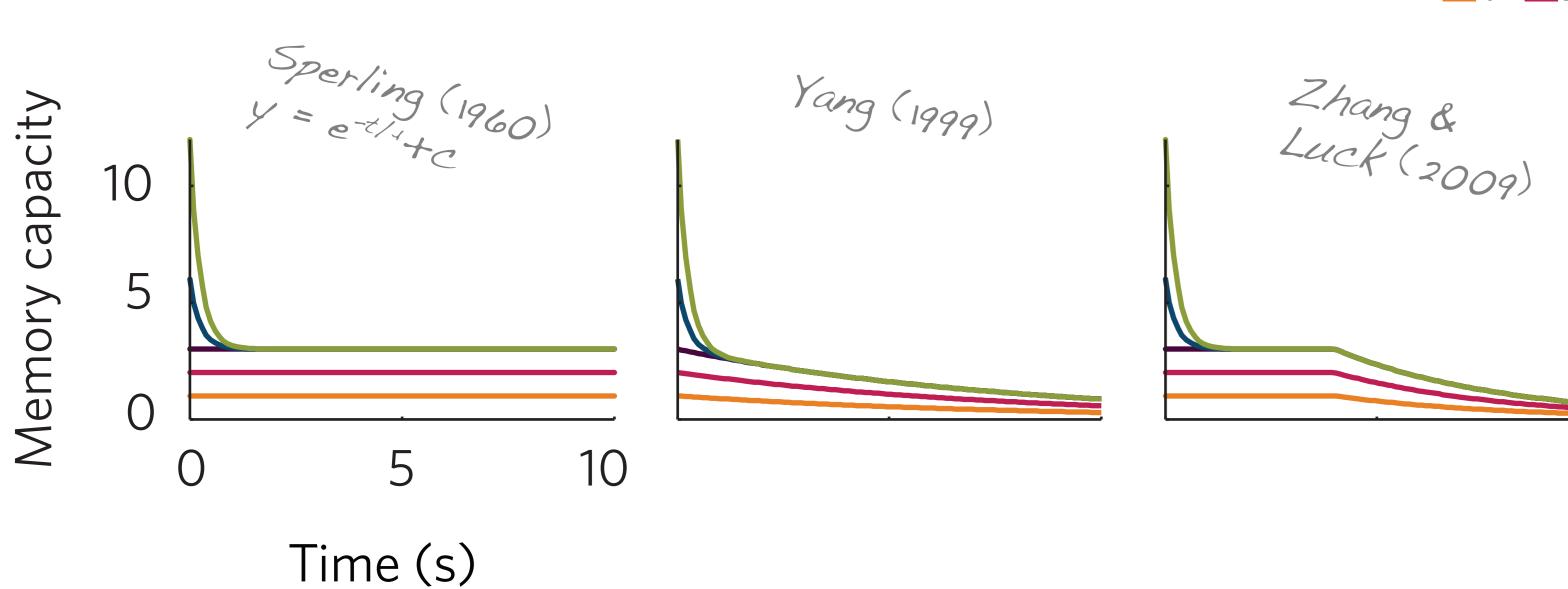
Evolutionary dynamics of visual memory

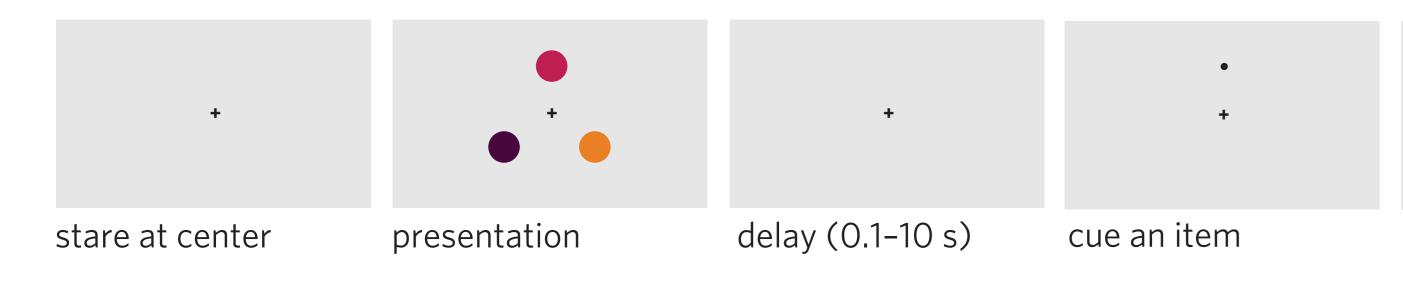
THE QUESTION

What is the timecourse of visual memory?

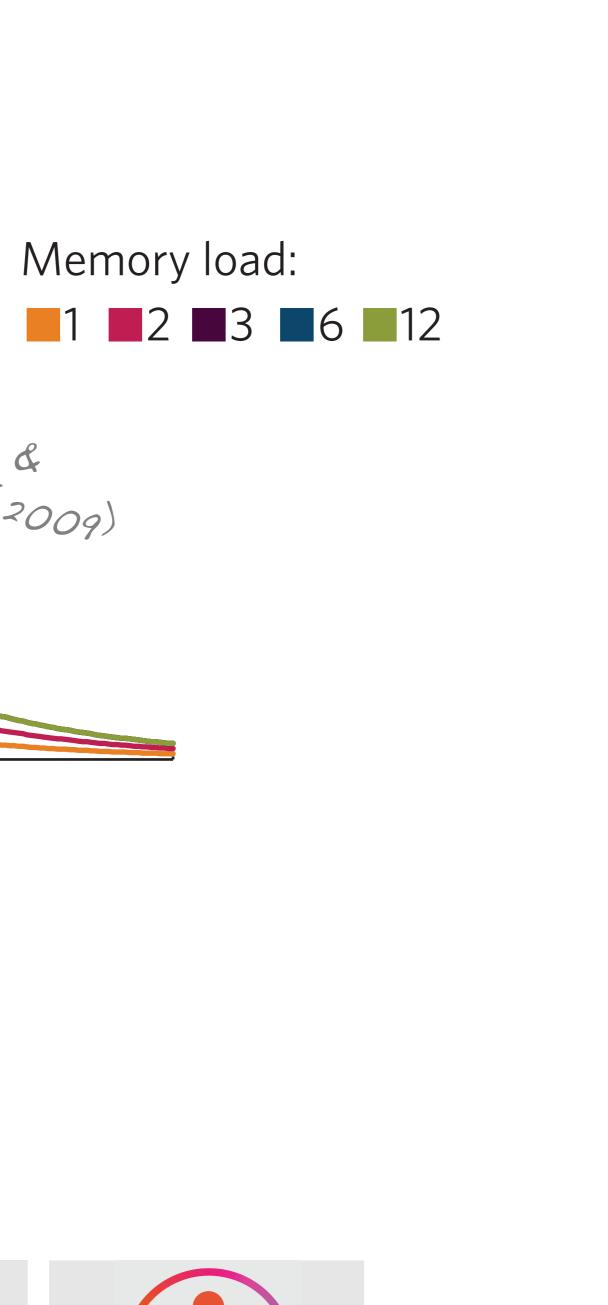
CLASSIC & CONTEMPORARY ANSWERS



THE TASK

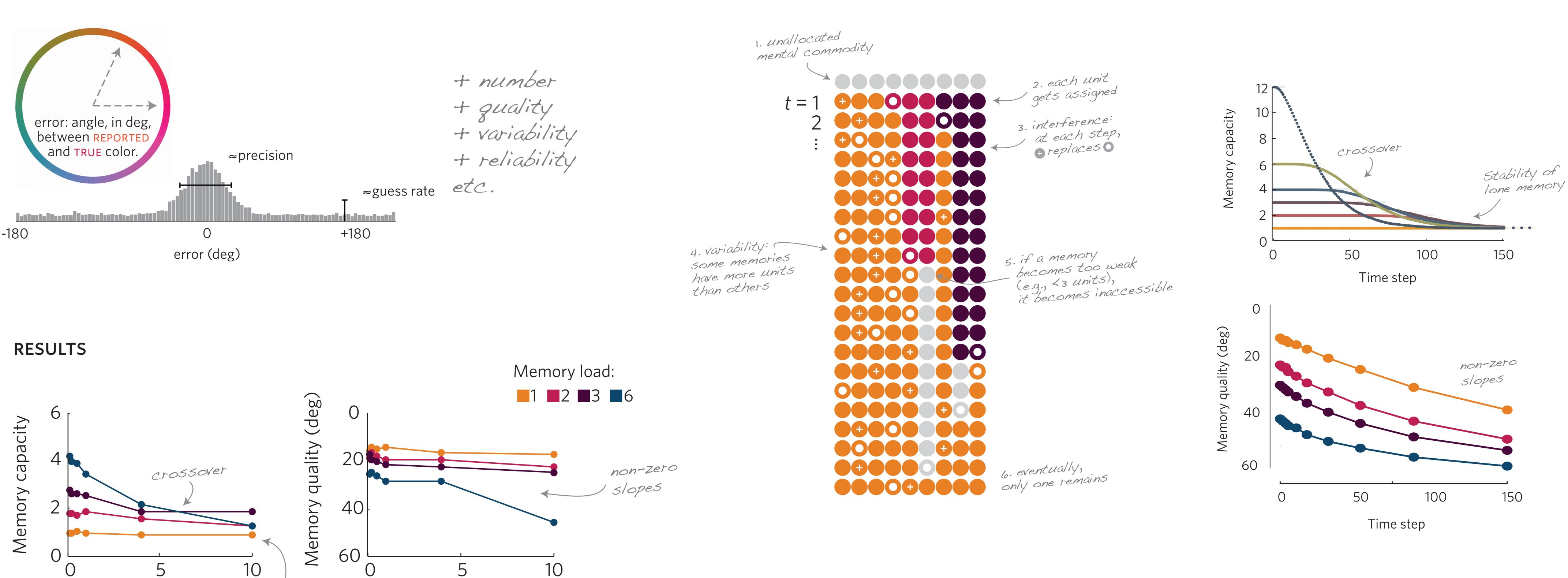


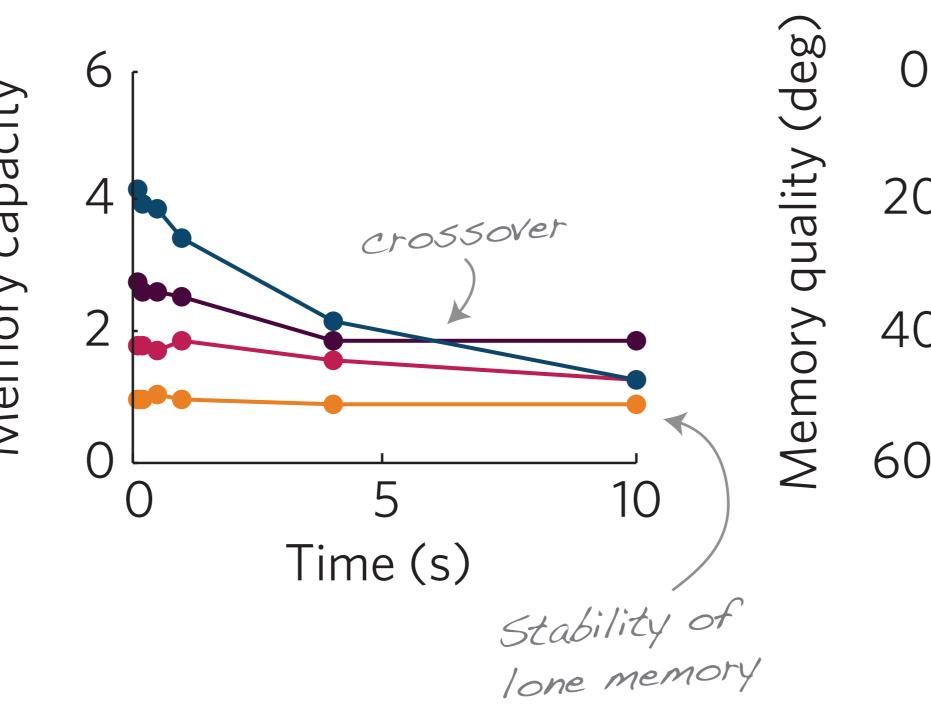
We build a process model of the timecourse of visual memory using evolutionary dynamics, a mathematical framework for describing how information is reproduced in noisy environments such as the brain.



report

ANALYSIS

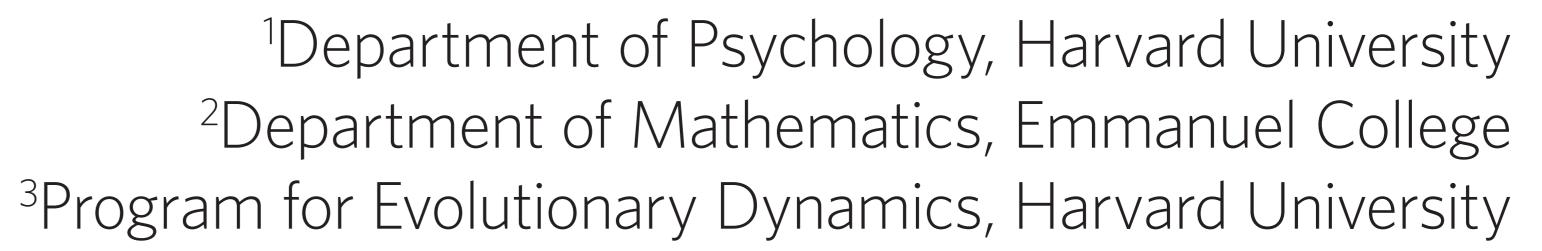


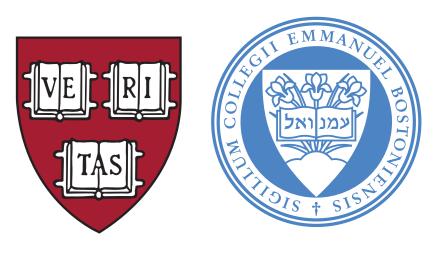


CONCLUSIONS: Only a lone memory is stable. There are crossovers in the forgetting function. Quality declines over time. These facts fall out of an evolutionary process where memories interfere with eachother and are lost when their quality falls beneath some threshold.

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Time (s)





EVOLUTIONARY MODEL