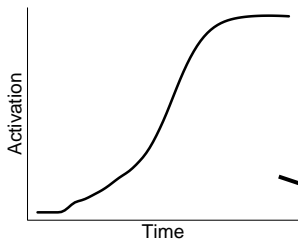


## Lexical Activation

The underlying lexical activation is ultimately the process we are interested in. As activation increases, the probability that a look initiated towards the referent also increases. Although we do not posit any particular functional form, a sigmoidal shape is predicted by the TRACE model



## Cognitive Mechanism

This is the cognitive mechanism referenced in Figure 3, representing the mental process associated with the initiation of an eye movement. It is governed by both the visual and motor systems, as well as by lexical activation. Statistically, it is modeled as a binomial random variable with the probability of initiating a look towards the referent a function of lexical activation

## Visual/Motor System

This is an independent system that operates as a "black box" in our model. It governs the strictly physiological aspects of eye movements and is not related to lexical activation

