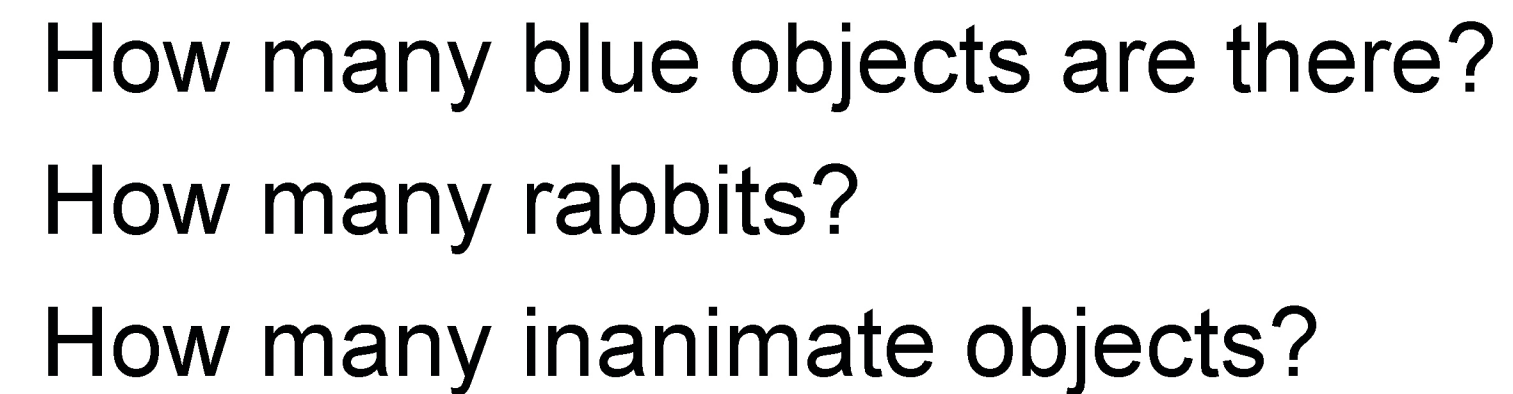




Left



Right

How many vertical lines are there?

You'll notice that it's easy to find all the blue objects (3), harder to find all the rabbits (2), and actually effortful to find all the inanimate objects (6).

If you said there was only 1 vertical line, look closer!

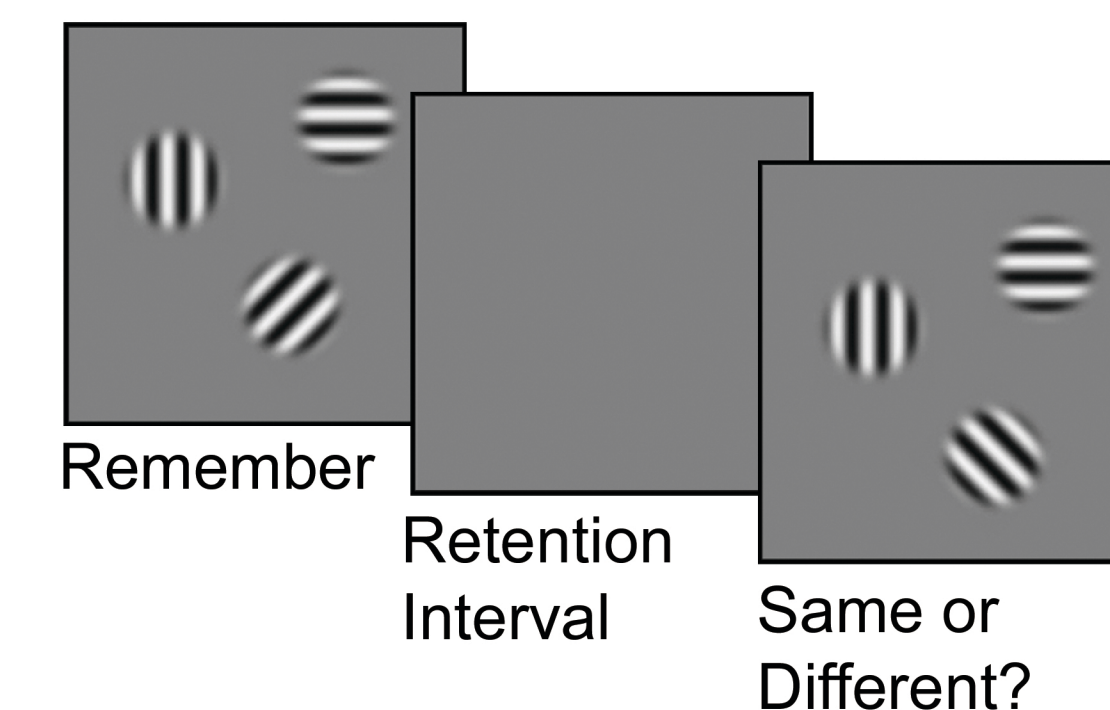
When trying to find something, you use your *visual working memory* to store a “template” of the target, then use your *attention* to match that template to what you’re looking at

Just like you can search for things you're seeing, you can also remember something first, then search your memory for it afterwards. When you do this, something strange occurs:

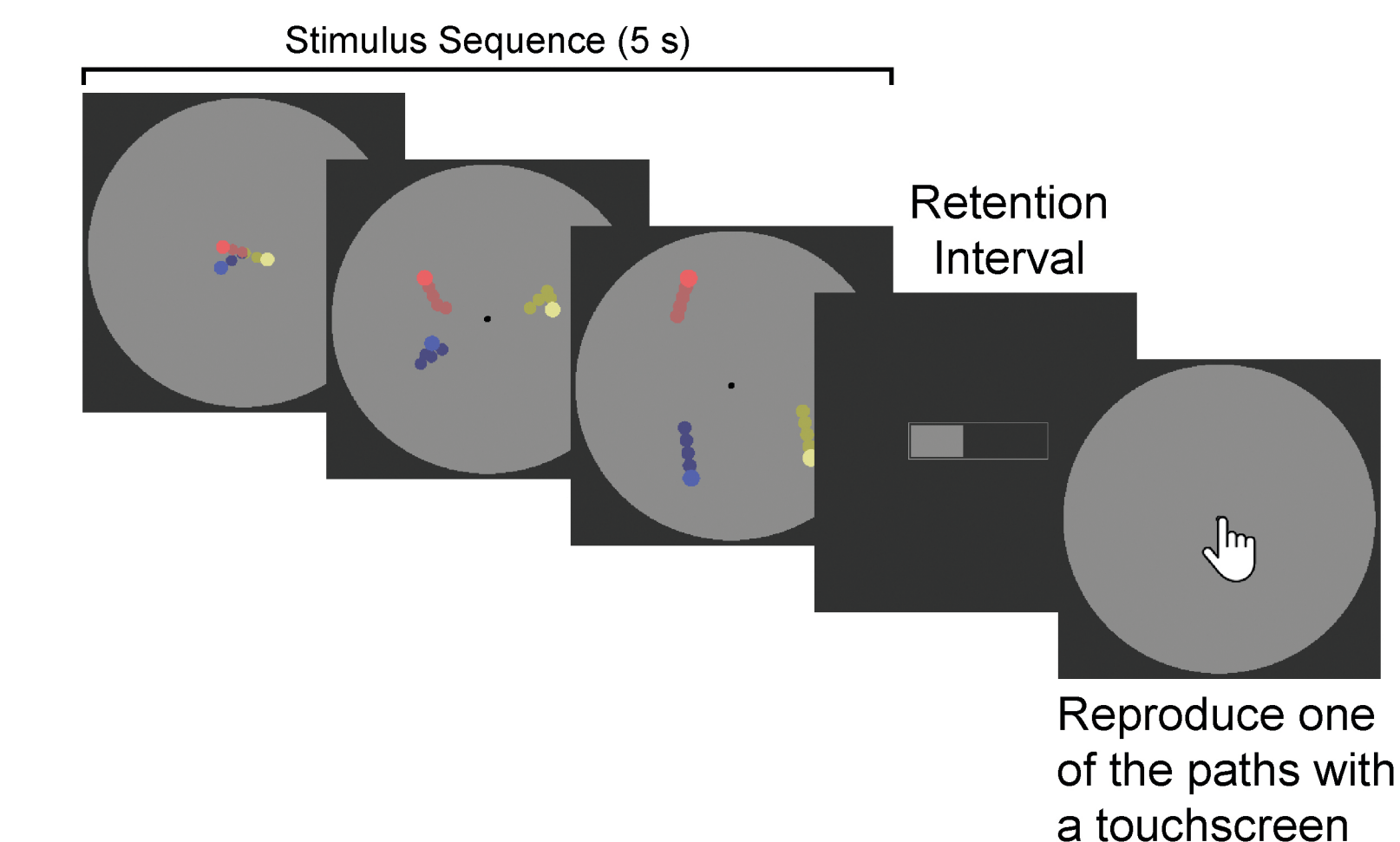
Searching your memory for a primary feature (e.g., RED) is easy. Searching for the secondary feature (e.g., SQUARE) is just as difficult as searching for a conjunction (e.g., RED SQUARE)

Understanding how attention works is limited by our understanding of visual working memory. To understand visual working memory, we need better ways to measure it.

Old Method of Measurement



New Method in Development



The combination of a dynamic moving stimulus and the touchscreen collecting hundreds of data points allows for a more powerful, efficient and accurate measurement of visual working memory.

