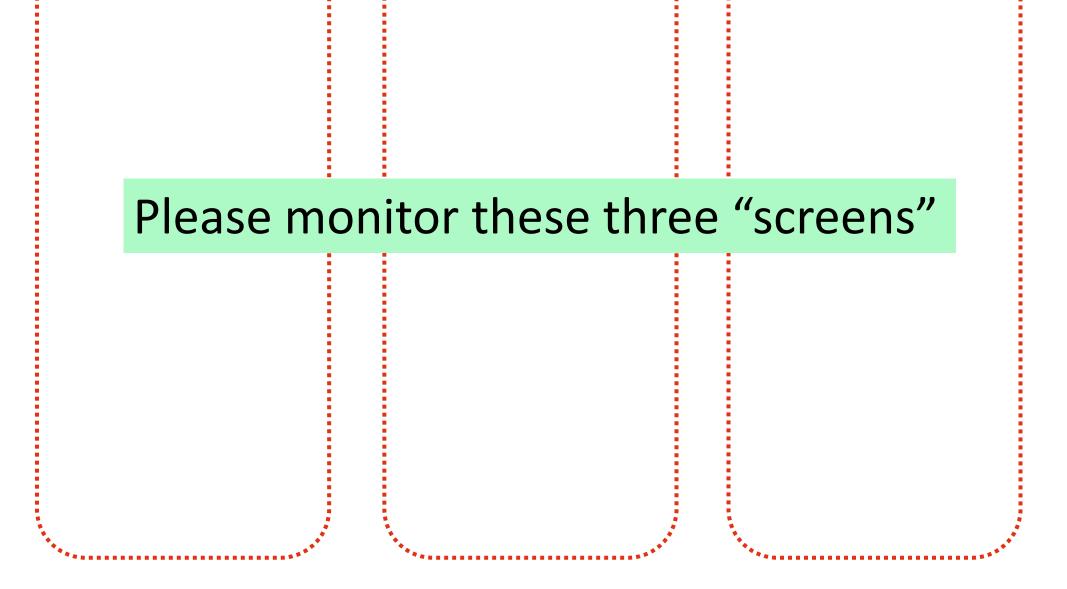
Many Screens, One Human: What Could Go Wrong and What Might Help?

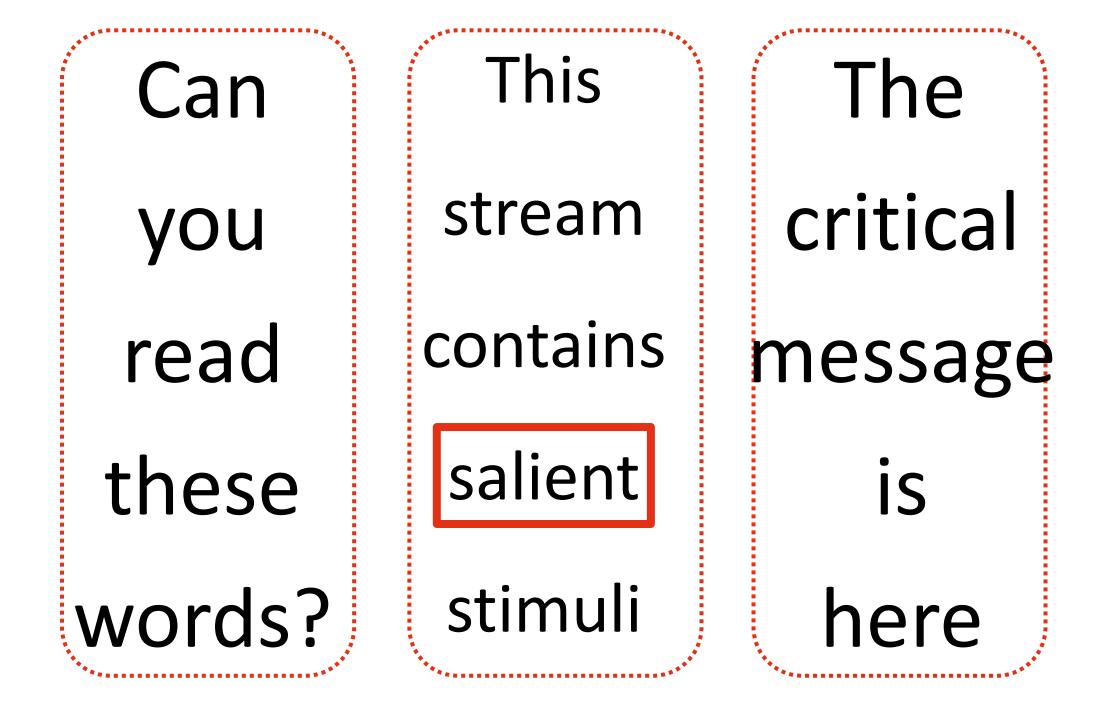
Jeremy M Wolfe, PhD Professor of Ophthalmology & Radiology, Harvard Medical School

> Visual Attention Lab Brigham & Women's Hospital

Many Screens: So What? Who Cares?

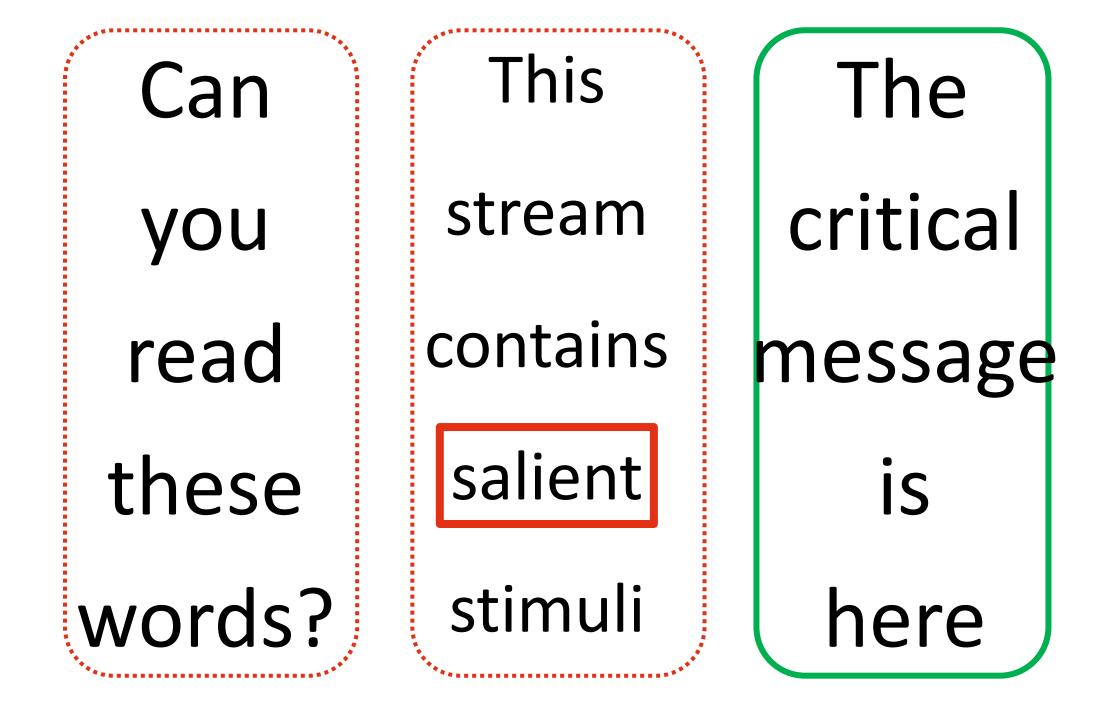


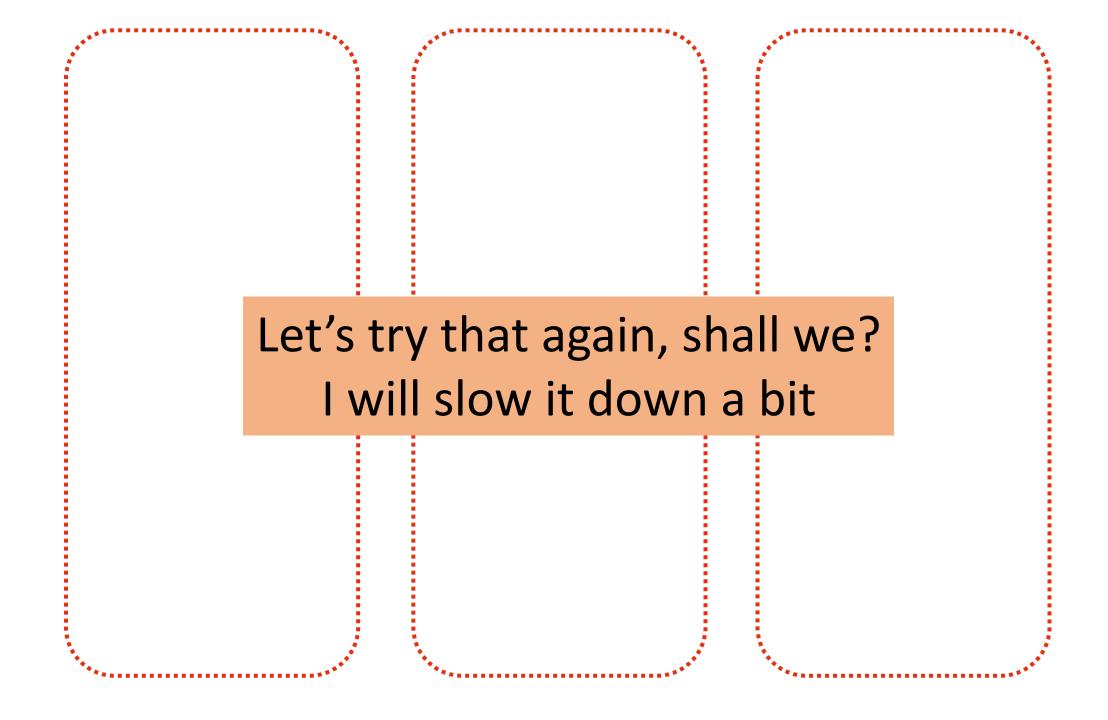


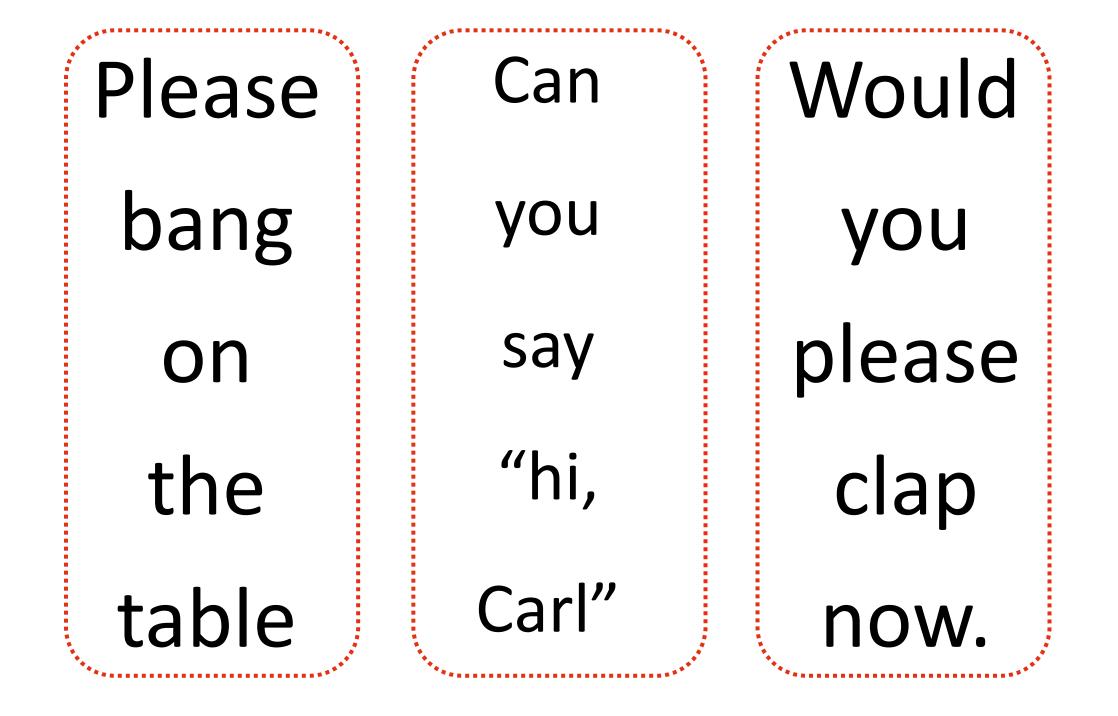


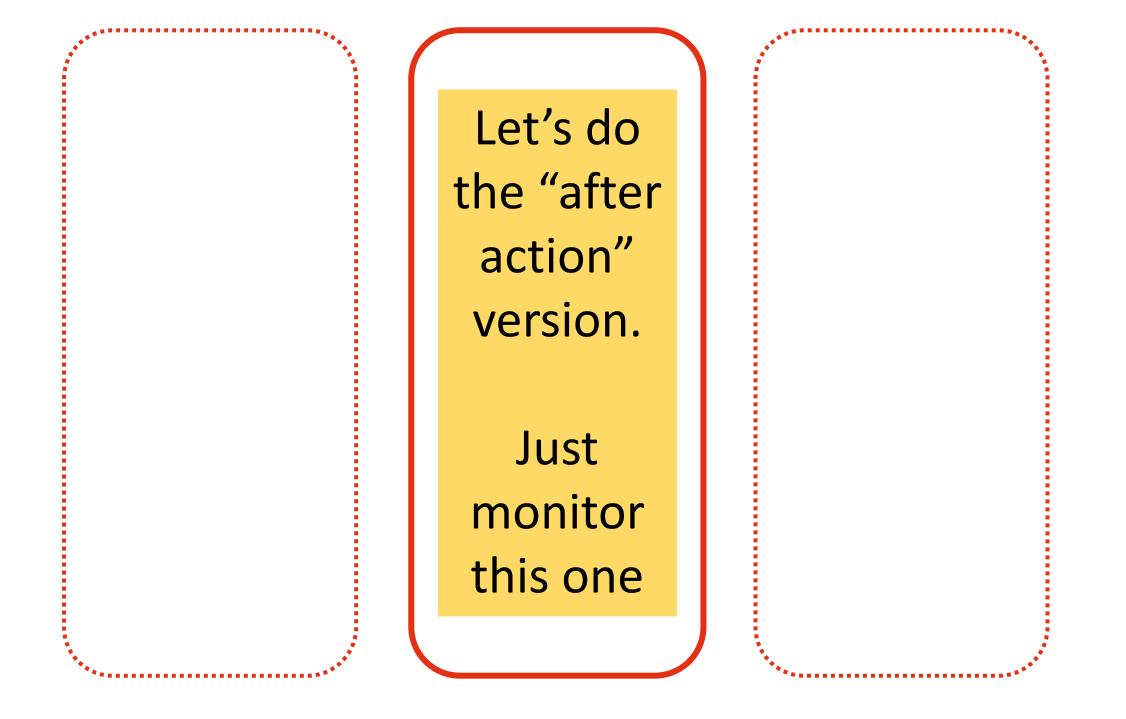
Who can report all three messages?

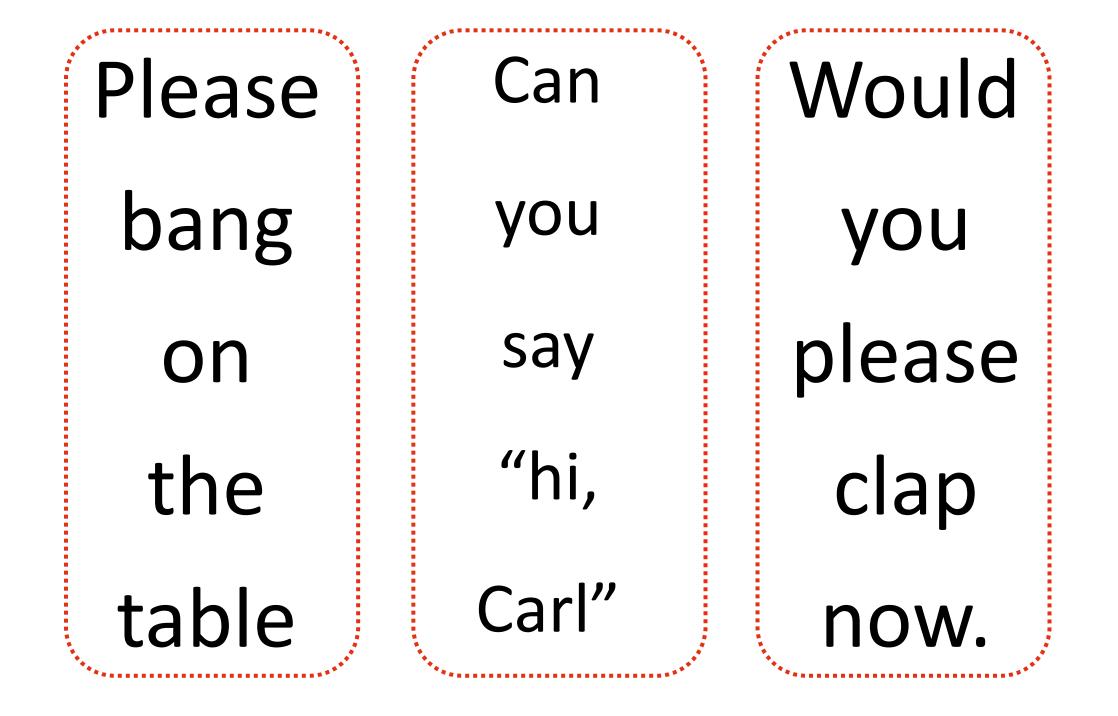
Who can report the critical message?



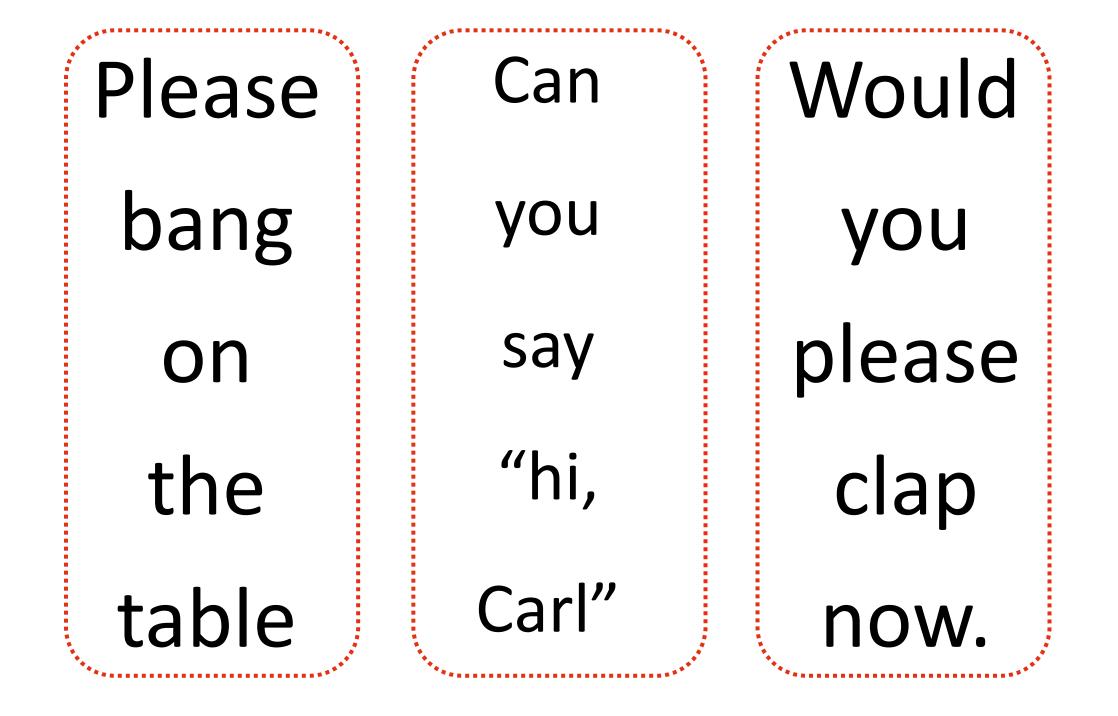




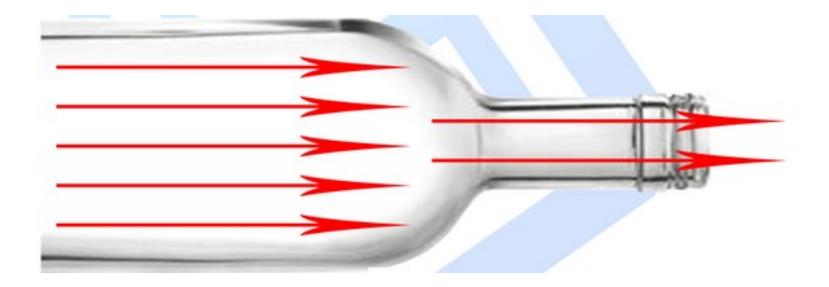




Not a visual problem



Just a version of the classic "bottleneck of attention"



We could do a term-long course on this, but...

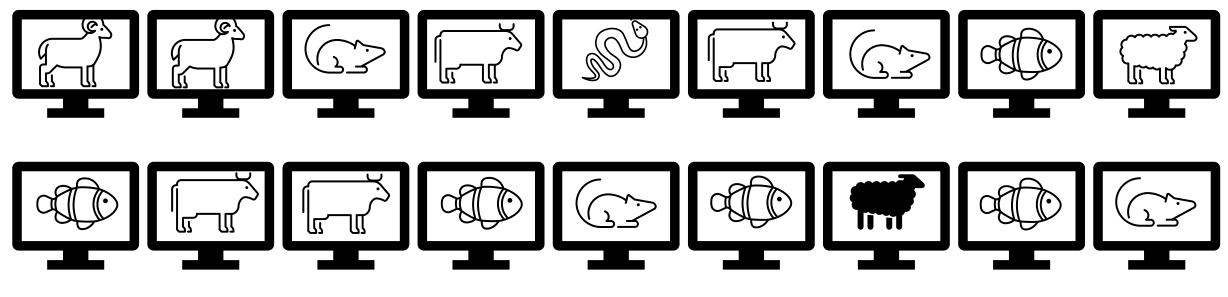
...what are your chances with this?

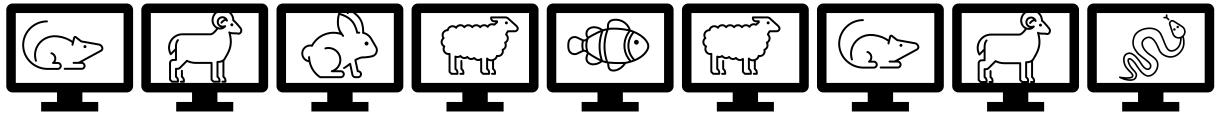


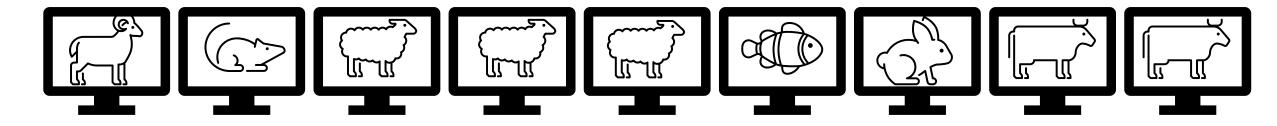
OK, it works if the stimulus is uniquely salient



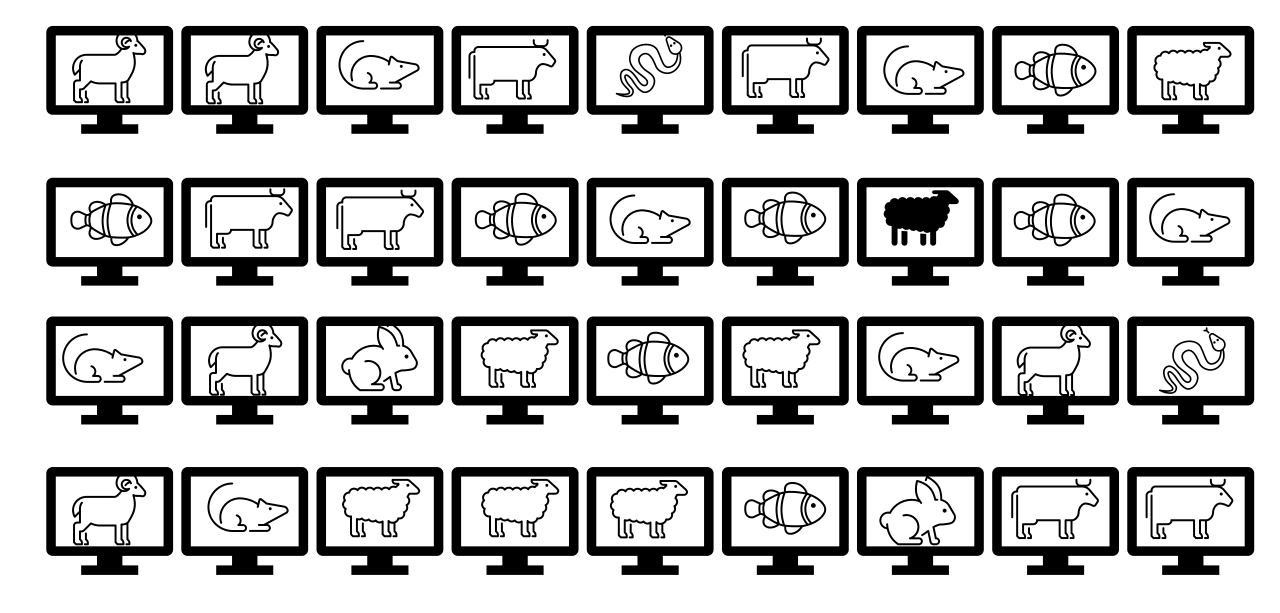
OK, to search for a persistent specific target







Find the Rabbit



Surveillance tasks will be hard

Vigilance decrements

Circadian issues

Prevalence effects

Positive Predictive Value

Will AI save the day?

