

Set Theory for Hackers







uid=1027(pruby) gid=0(insomnia)





Apology: Clickbait











 \forall D \in My Dumplings:





D contains









⇒ om nom nom



∃ D ∈ My Dumplings:





D contains



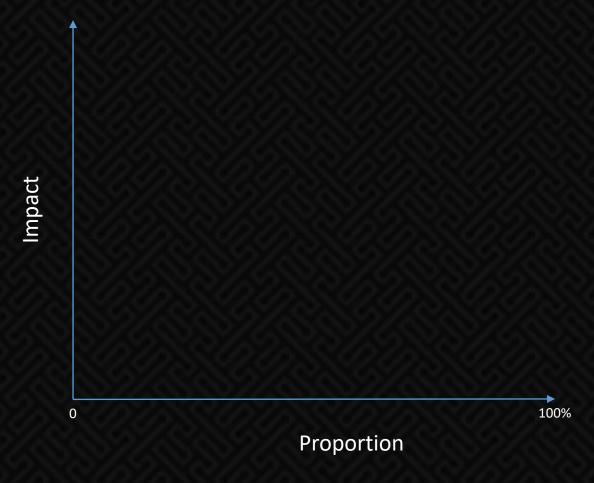




⇒ bluuurgh

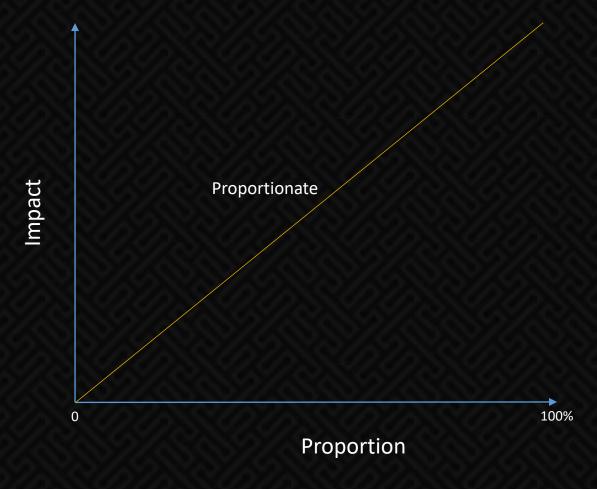






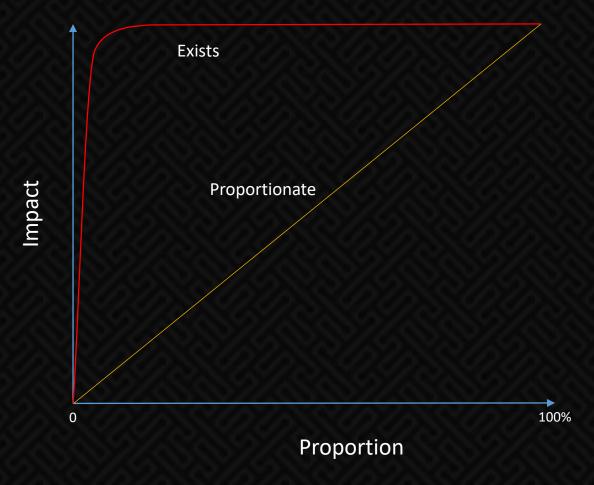






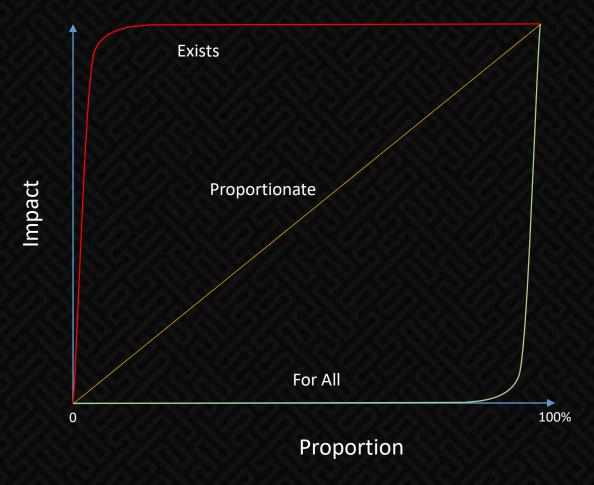




















200 Staff Trusted Corporate Network Act on email ⇒ Attacker on Network



∃ S ∈ My Staff:



S Follows Email Instructions





⇒ Breach





 \forall S \in My Staff:









⇒ Attack Failed





Direct Response: "Don't Click"





Initially lots of clicks...

Months of Work...

Only 1% Click! Celebrate!





What impact?

... model it out





86.6% Attacker Wins

(Binomial Distribution)

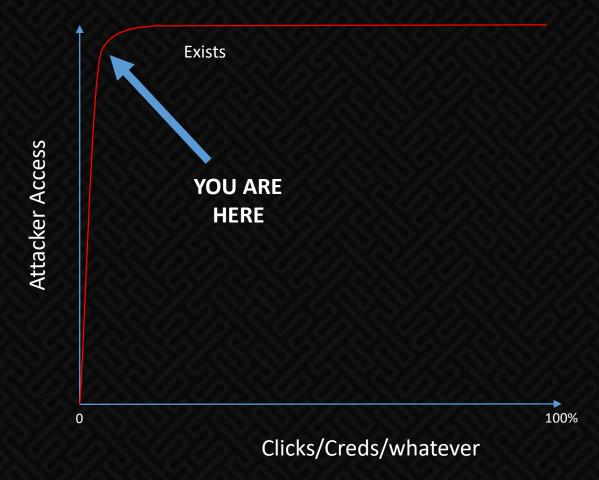




What went wrong?









In general we can:



Target Individual Odds

(Diminishing Returns @ Extremes)

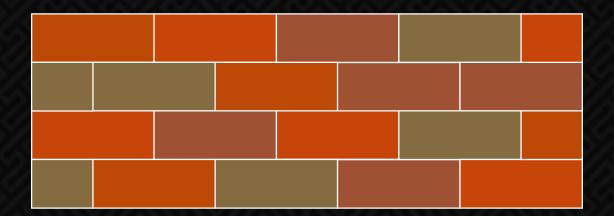






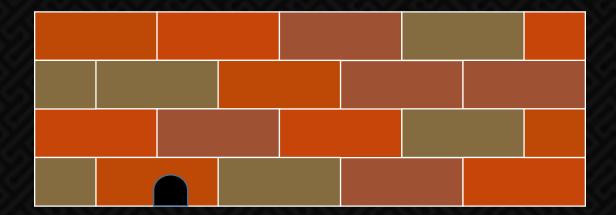






















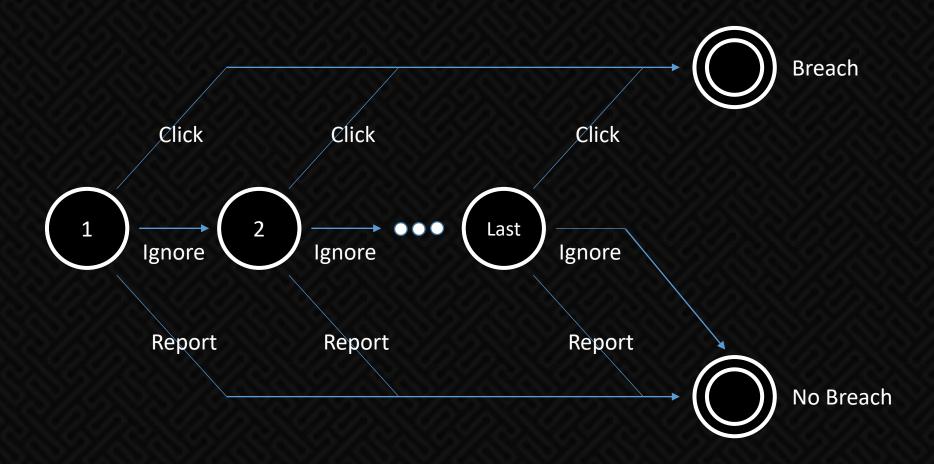
∃ S ∈ My Staff: S Reports Attack and we can block it



⇒ This Attack Fails Against all later openers

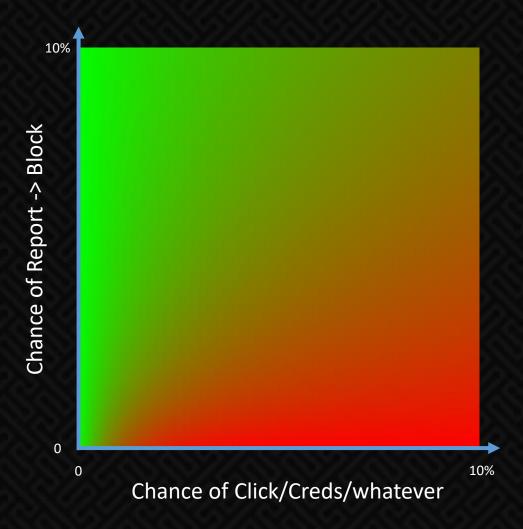






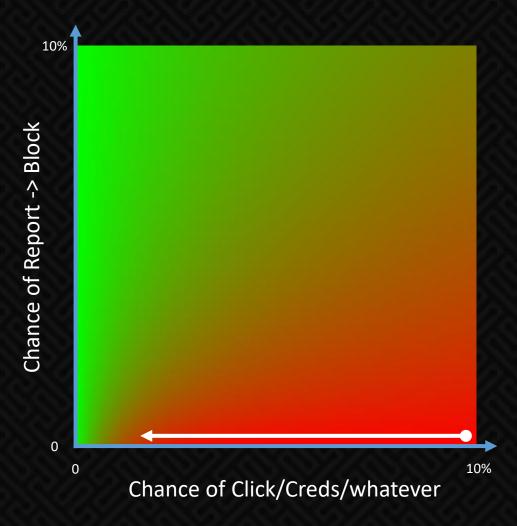






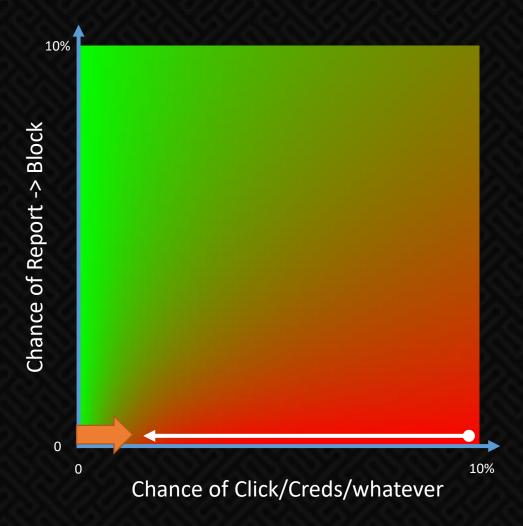






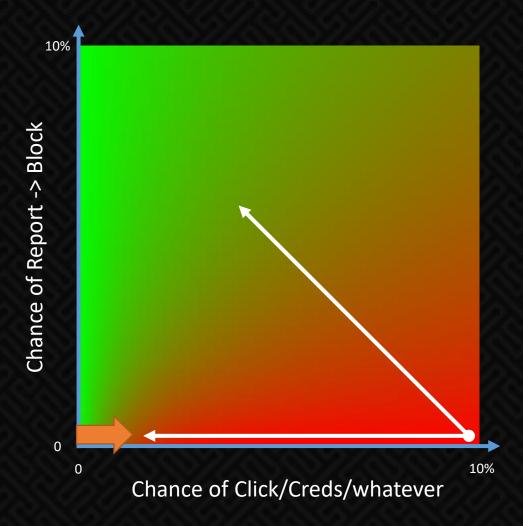














General Concept



∀VS.∃ Fight!



K.O. High statements of the statement o



Are You on the Right Side?





Models can help...







