

NIKKI ROBINSON

CHAOS SECURITY ENGINEERING:  
INTEGRATING SECURITY THROUGH

# CHAOS

WITHIN A SECURITY CONTEXT

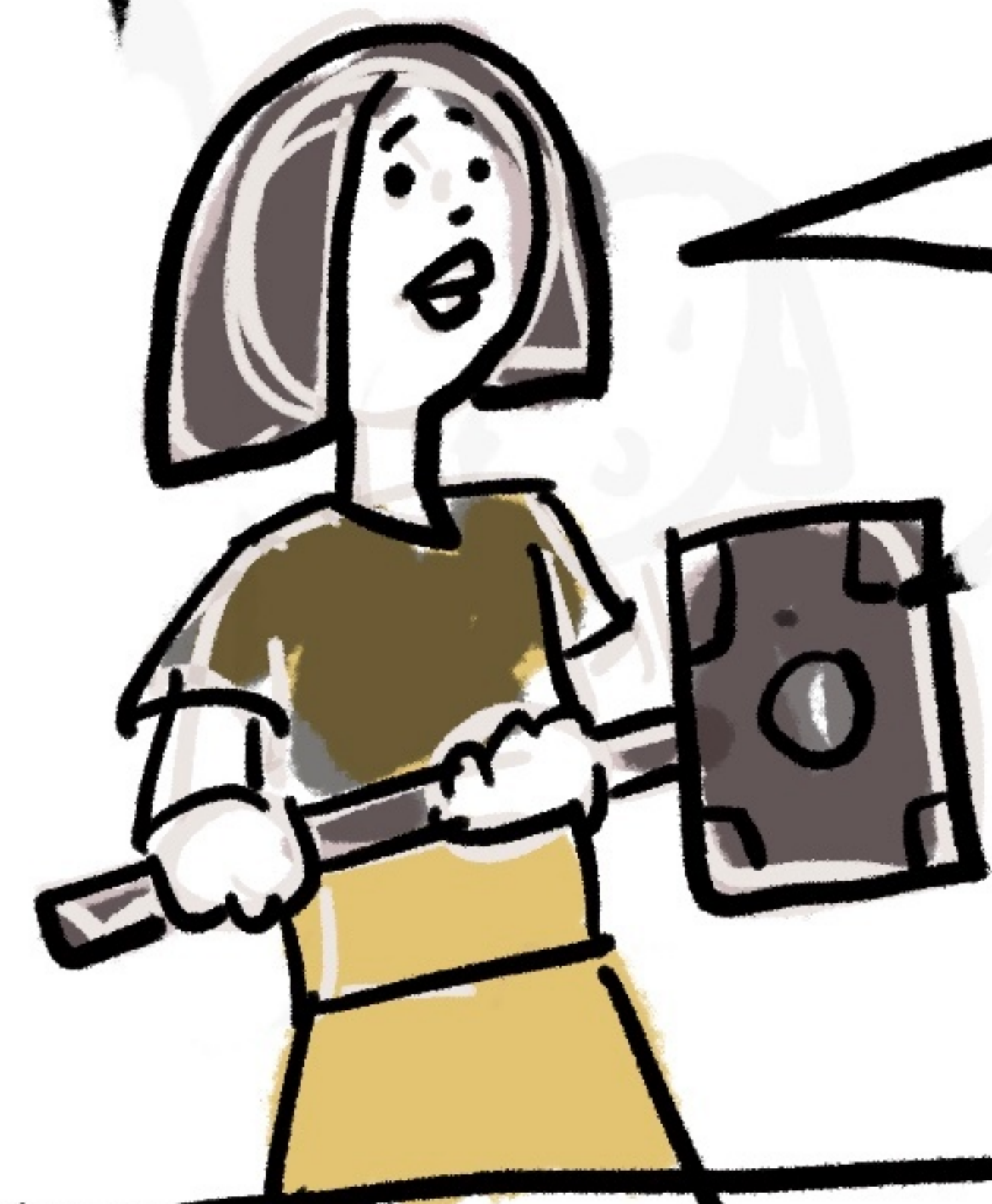
{ SPEAKING THE SAME LANGUAGE  
SECURITY ↔ OPERATIONS }



HYPOTHESIS-BASED  
APPROACH,

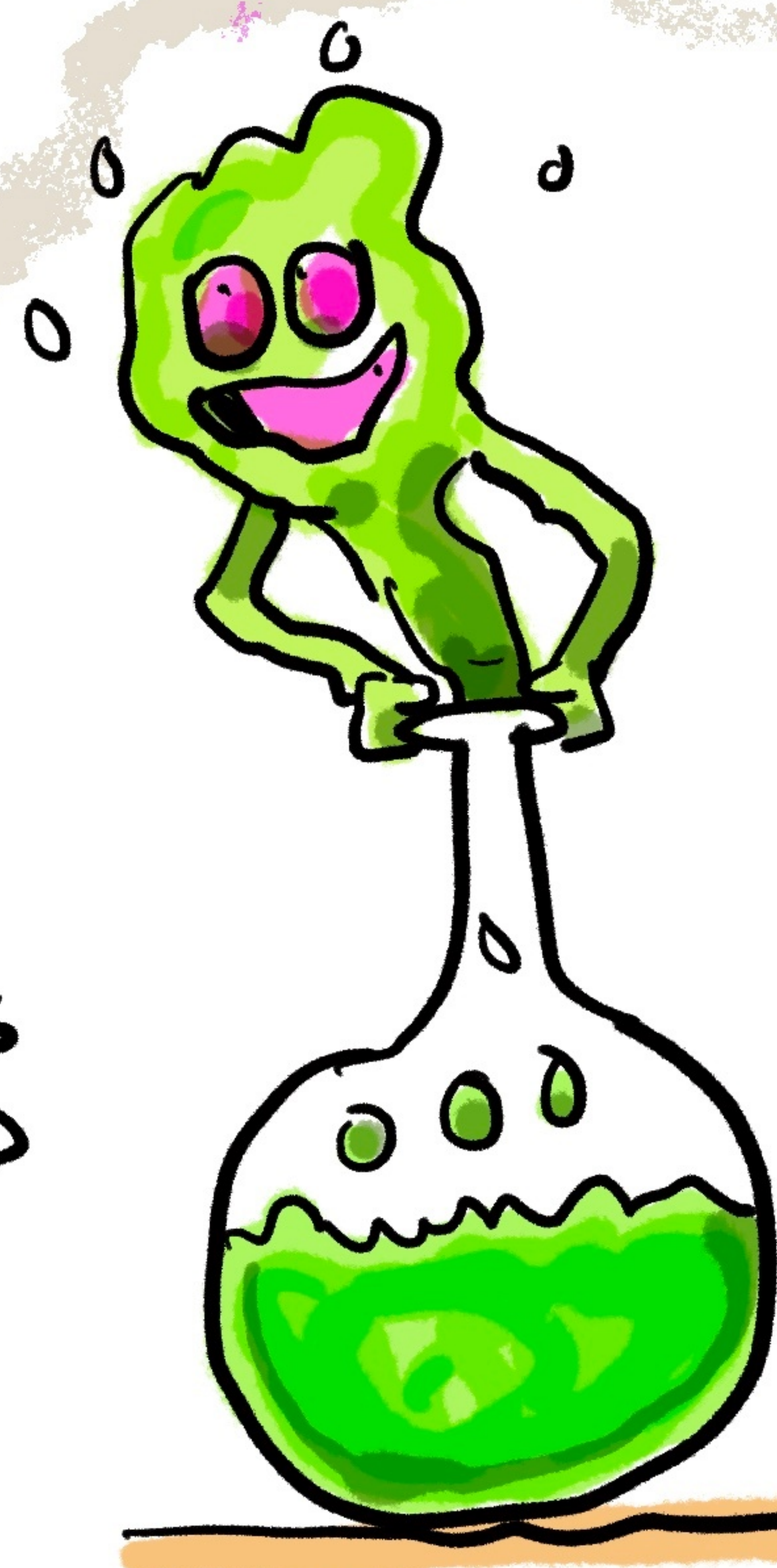
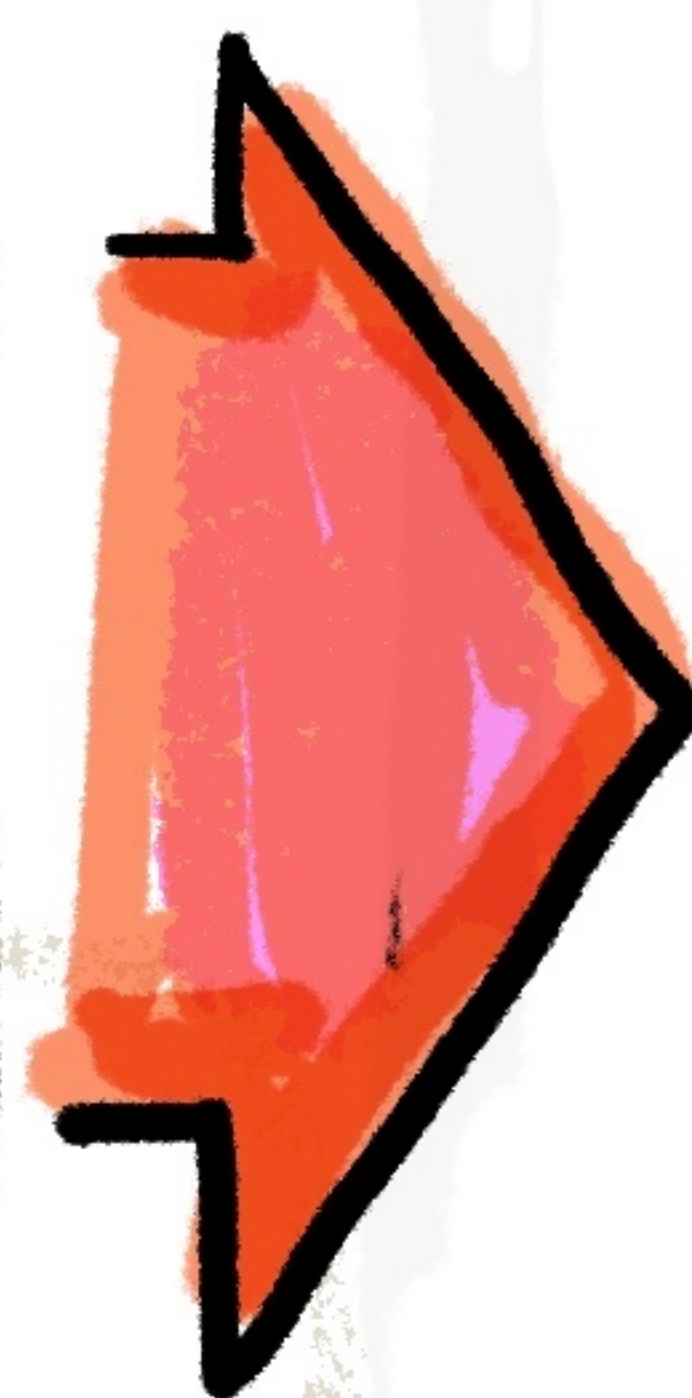
ASKING

HOW CAN  
I  
BREAK  
THIS?



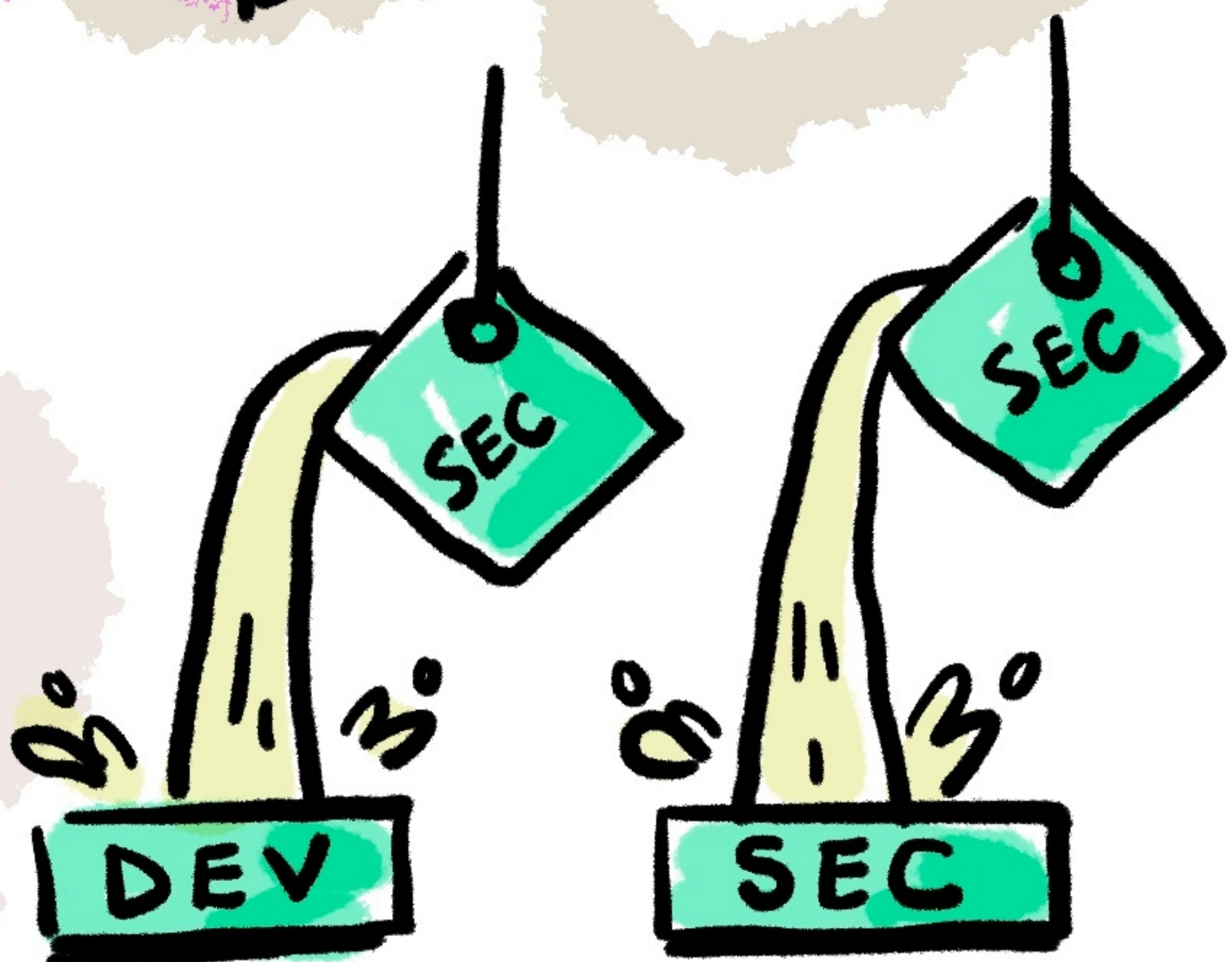
LIKE IN SCIENCE,

A SURPRISE  
HYPOTHESIS IS  
MORE INTERESTING  
THAN THE EXPECTED  
ANSWER!  
AND  
LEADS TO MORE  
QUESTIONS.



HYPOTHESIS  
TESTING MAY  
BE RIGHT  
**90%** OF  
THE TIME -  
BUT **10%** CAN  
REALLY BE  
VALUABLE

? HOW TO INTEGRATE  
CONTINUOUS SECURITY  
TO HELP DEVELOPERS  
DURING CREATION

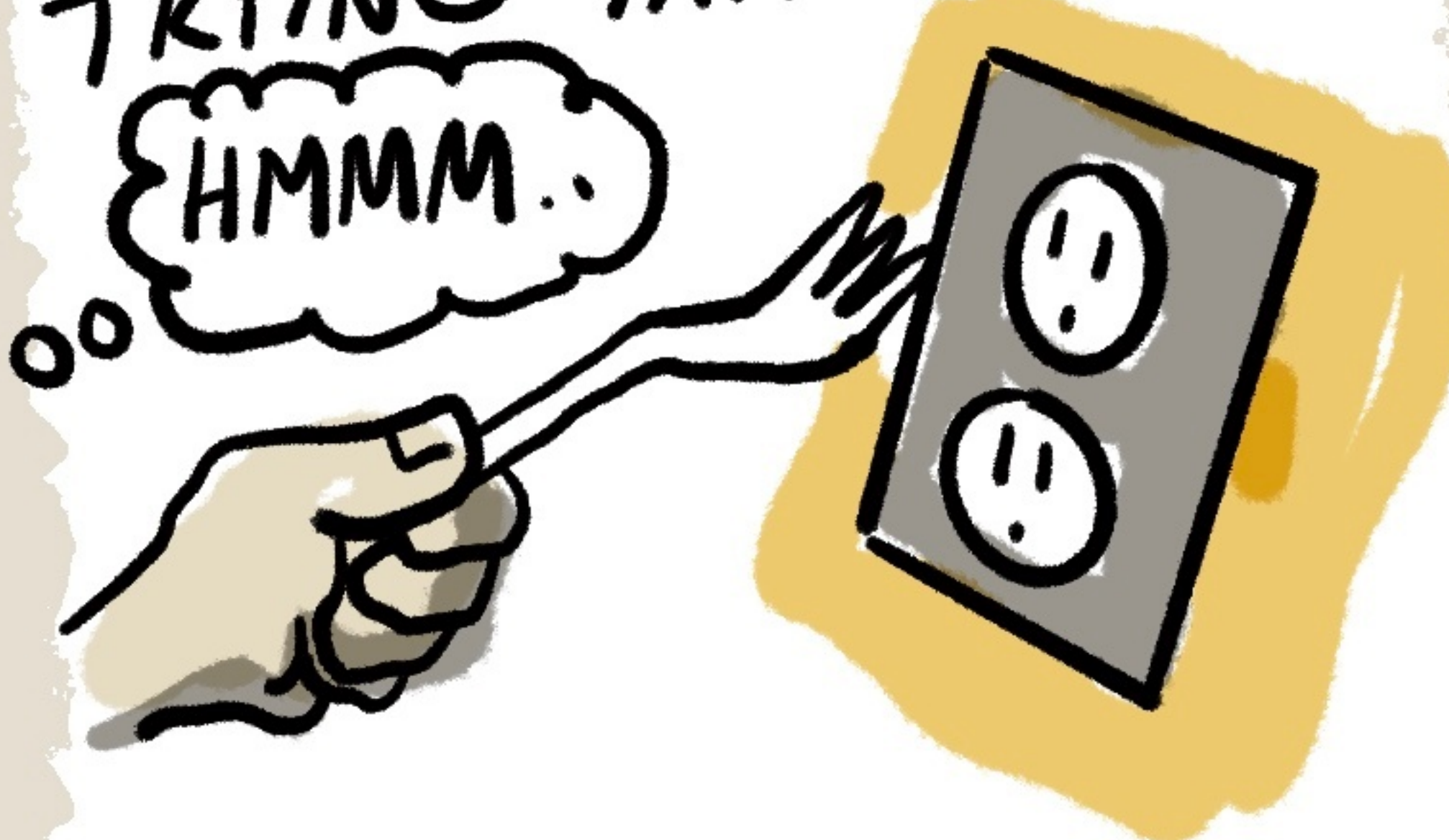


DEV SEC OPS  
SECURITY JOINS  
THE CONVERSATION

CHAOS SEC. ENG.

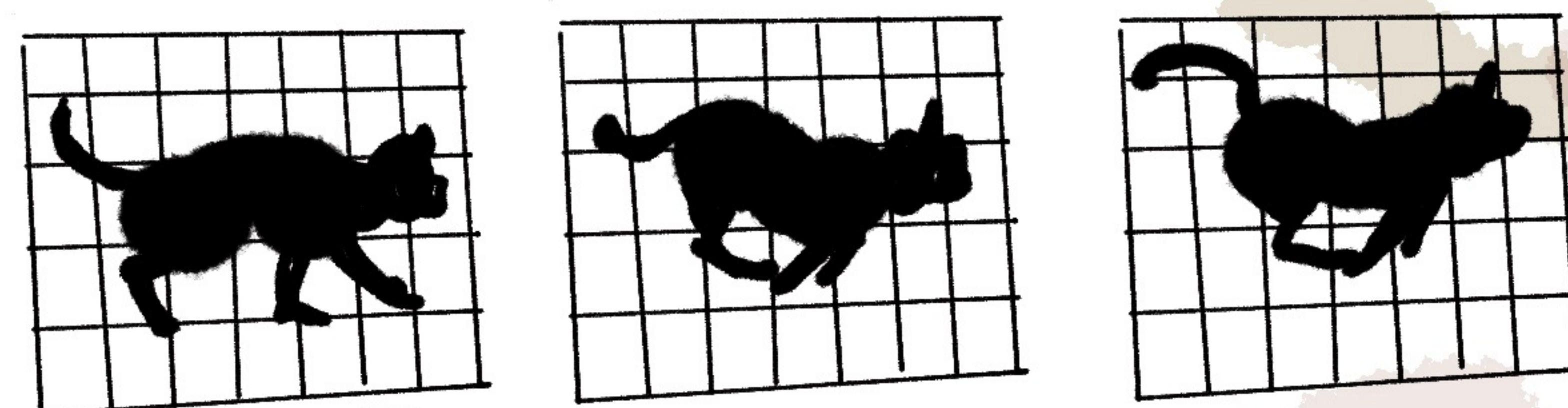
- Build Hypothesis/  
Steady-State Behavior
- Real-World Events
- Experiment in Production
- Automate/Iterate

LEVERAGE DEVELOPERS  
INTEREST IN TESTING &  
TRYING THINGS OUT.



SECURITY ISN'T A  
SNAPSHOT IN TIME -  
CHALLENGES CHANGE

NEW TECH/NEW PROBLEM  
NEW GUIDANCE



CHAOS SEC. ENG  
IS A PROACTIVE APPROACH

APPLYING SCIENTIFIC  
METHOD TO CYBER  
SECURITY ENGINEERING



SPRINKLE IN  
A LITTLE CHAOS