Windows Forensics

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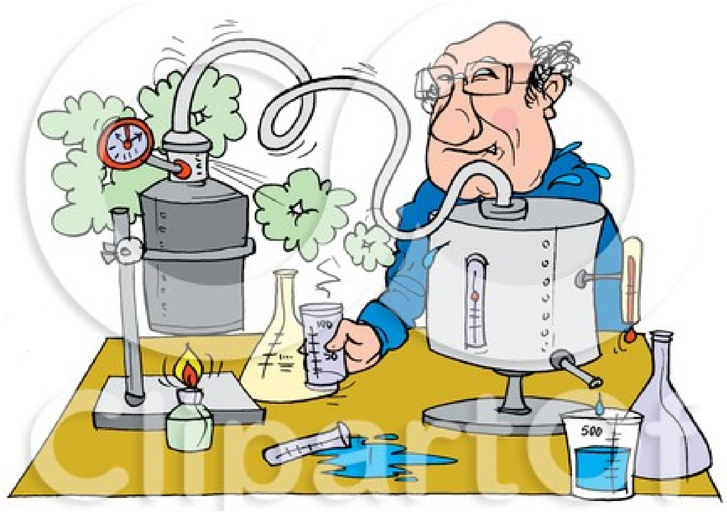
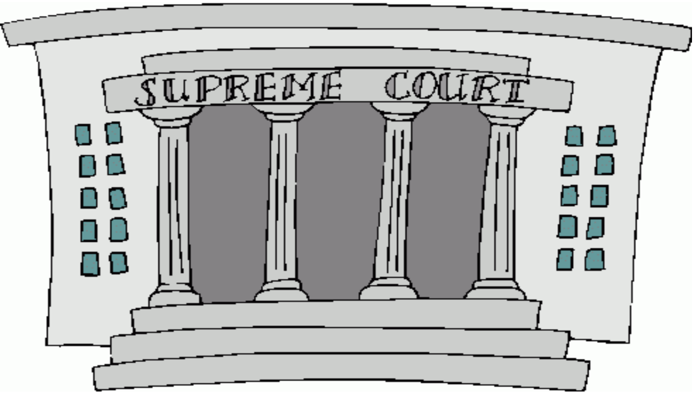
Forensic Basics: Background



What is Forensics?

- Merriam-Webster: Forensic (n) belonging to, used in, or **suitable to courts** of judicature or to public discussion and debate
- Forensic science or forensics is the scientific collection of evidence of sufficient quality that it is suitable for use in court

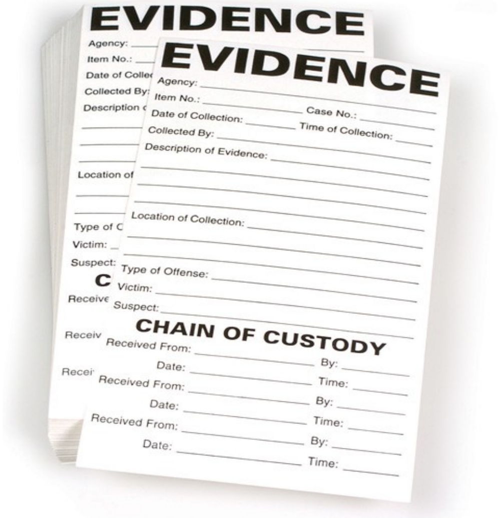


Kinds of Forensics

- Physical
  - Transfer
  - Fingerprints
  - DNA
- Digital
  - Network
  - Data storage
  - Small devices
  - Computers

General Principles

- Maintain integrity of evidence
- Maintain chain of custody
- Document everything
  - Handwritten is better
  - Work with a partner if possible
- Follow standard practices



EVIDENCE

Agency:

Item No.: Case No.:

Date of Collection: Time of Collection:

Collected By:

Description of Evidence:

Location of Collection:

Type of Offense:

Victim:

Suspect:

CHAIN OF CUSTODY

Received From: By:

Date: Time:

Received From: By:

Date: Time:

Received From: By:

Date: Time:

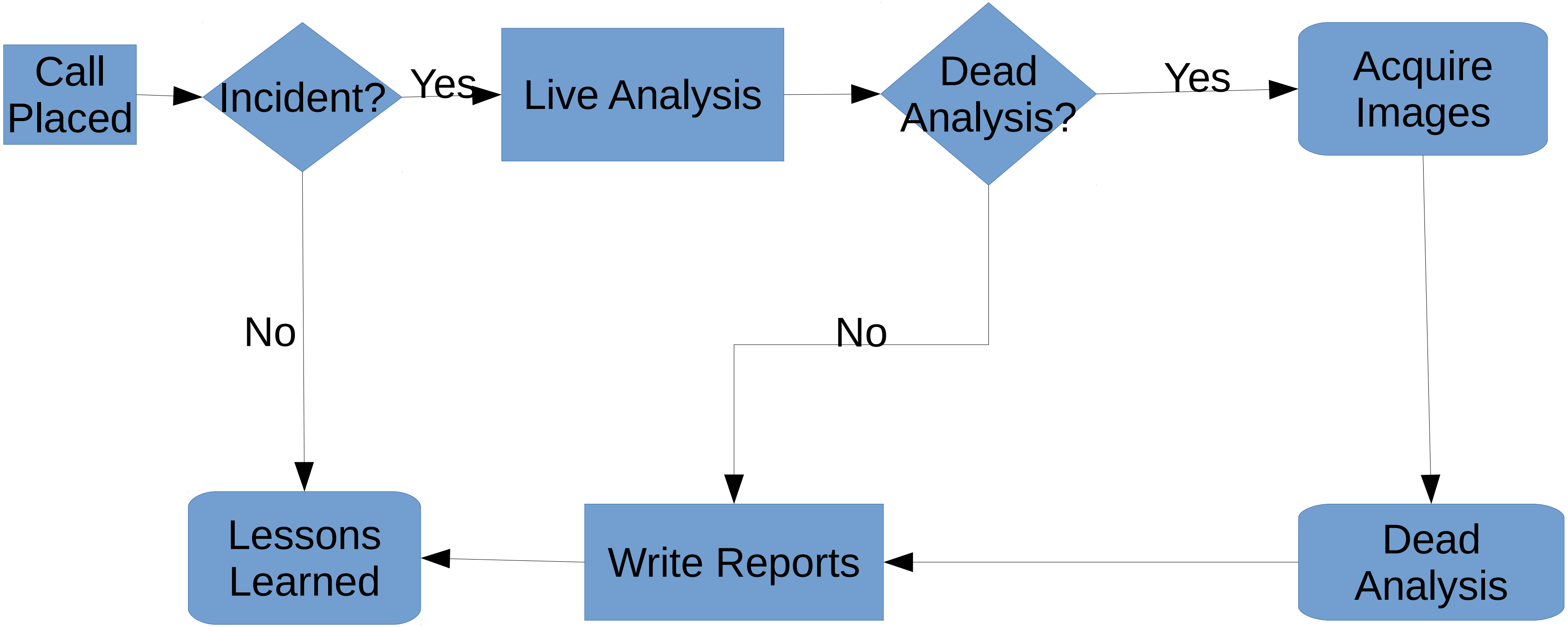
Phases of Investigation

- Evidence preservation
  - First do no harm
- Evidence searching
  - More complicated as storage has increased
- Event reconstruction

Incident Response

- First validate that there was an incident
- Then proceed with preservation, searching, and event reconstruction
- Might need to do some preliminary investigation to determine if there was an incident
- Not done till reports are complete

High Level Process


Call Placed
Incident?
Yes
Live Analysis
Dead Analysis?
Yes
Acquire Images
No
No
Lessons Learned
Write Reports
Dead Analysis