



San Francisco | March 4–8 | Moscone Center

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BETTER.

SESSION ID: TECH-R02

Election Hacking is No Longer Theoretical: Russians are Pwning Our Votes

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#RSAC

How I Got Involved in Voting & Voting Security



How I Started Identifying Malicious Activity on Social

Mark Dunfey

Sgt. John Smith

MILITARY SCAM RAYMOND T. ODIERNO

FAKE-ACCOUNTS WI IMAGES FROM GEN. ODIERNO

Mark Dunfey har uppdaterat sin p FAKE_IS_THE_NEW_BLACK #14 ODIERNO

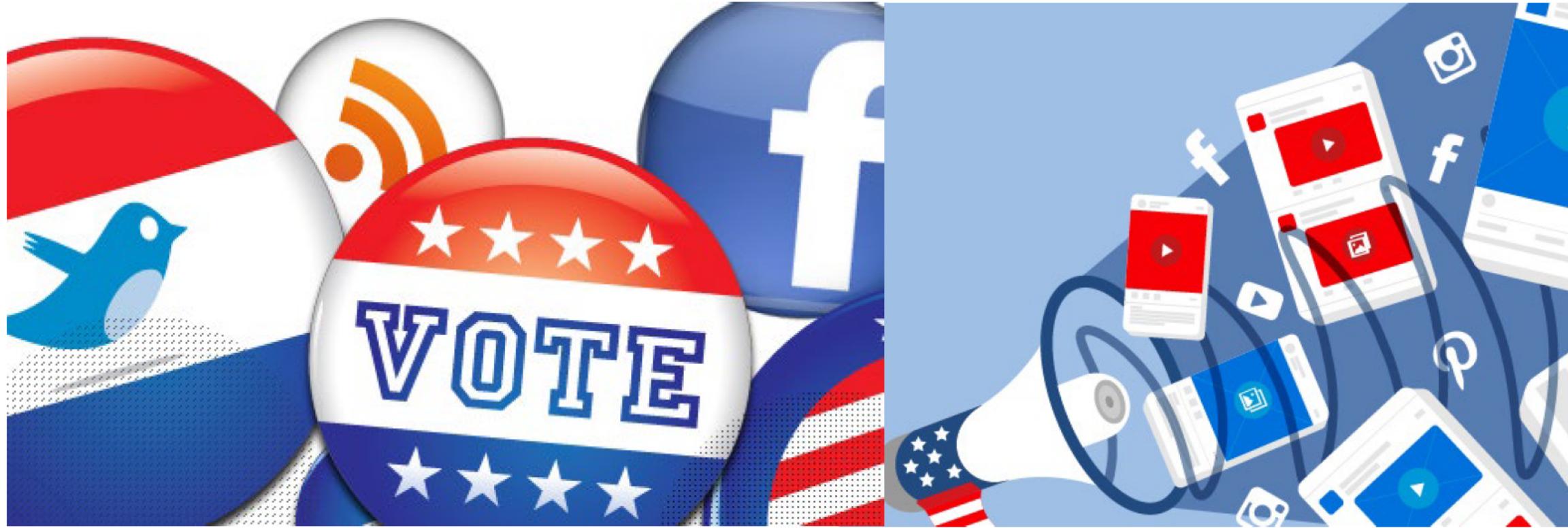
Sgt. John Smith

Staff Sgt. James Madison



MILITARY SCAMS TARGETING CIVILIANS

I Started Looking into How Social Media Impacts Voting



IMPACT OF UNKNOWN PAY-TO-PLAY CONTENT CREATORS & ADVERTISERS

Social Has Been Weaponized



nation states / hijacked accounts

Social Has Been Weaponized



nation states / fake account bot farms / trolls

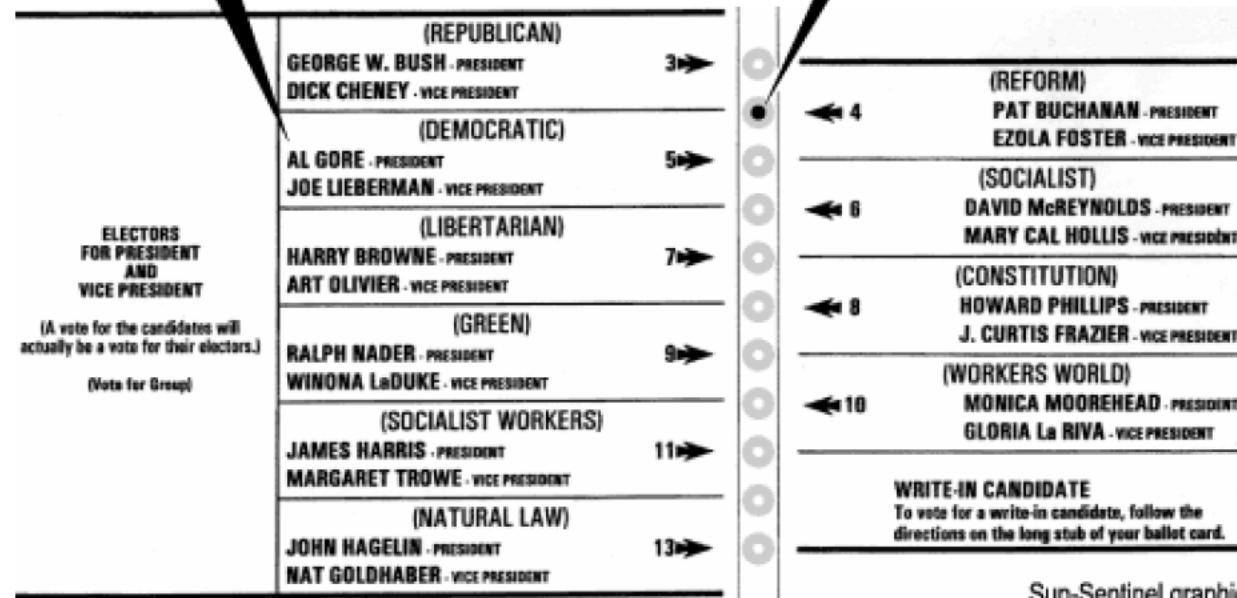
Voting Machines

Confusion at Palm Beach County polls

Some Al Gore supporters may have mistakenly voted for Pat Buchanan because of the ballot's design.

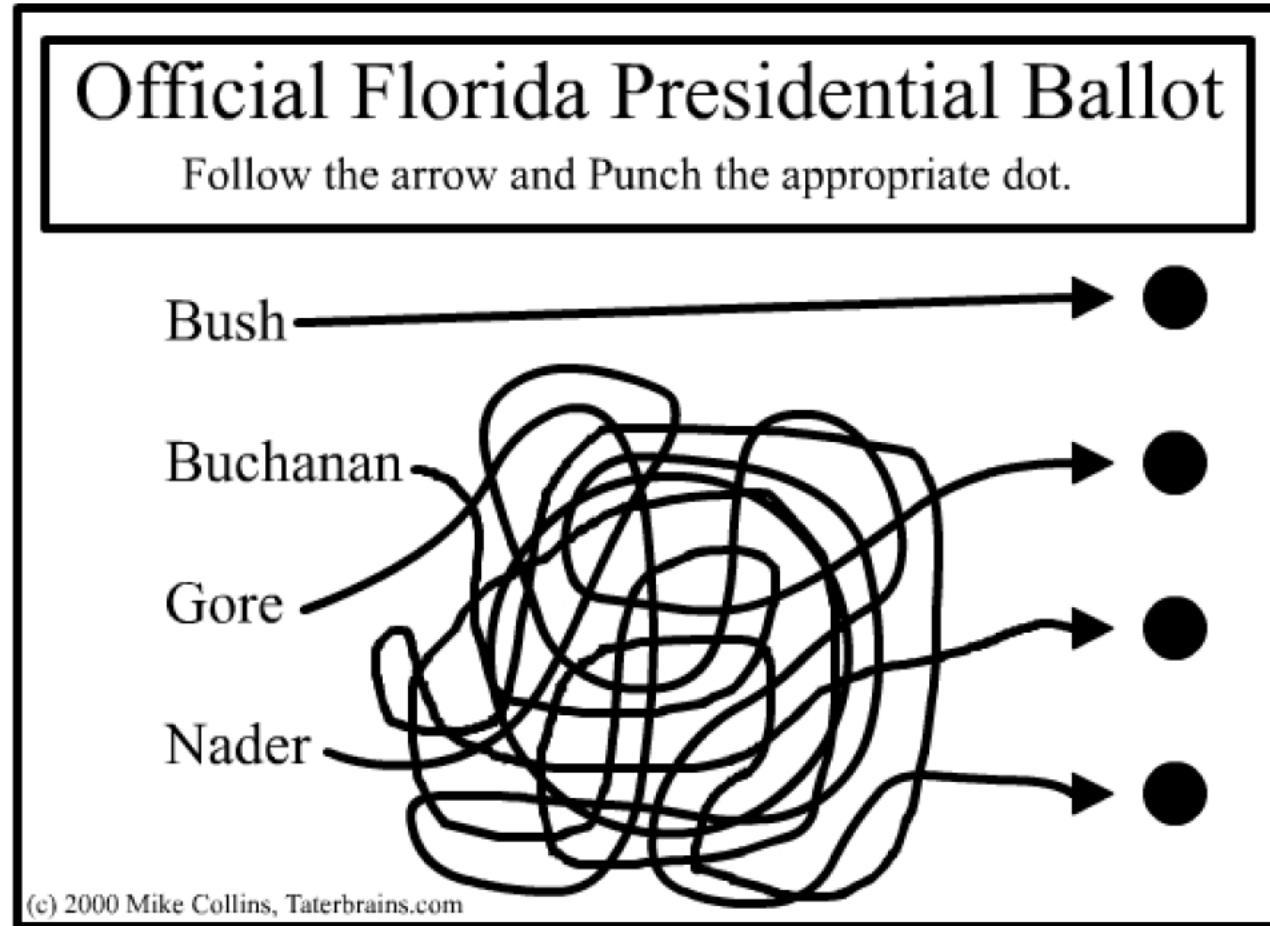
Although the Democrats are listed second in the column on the left, they are the third hole on the ballot.

Punching the second hole casts a vote for the Reform party.

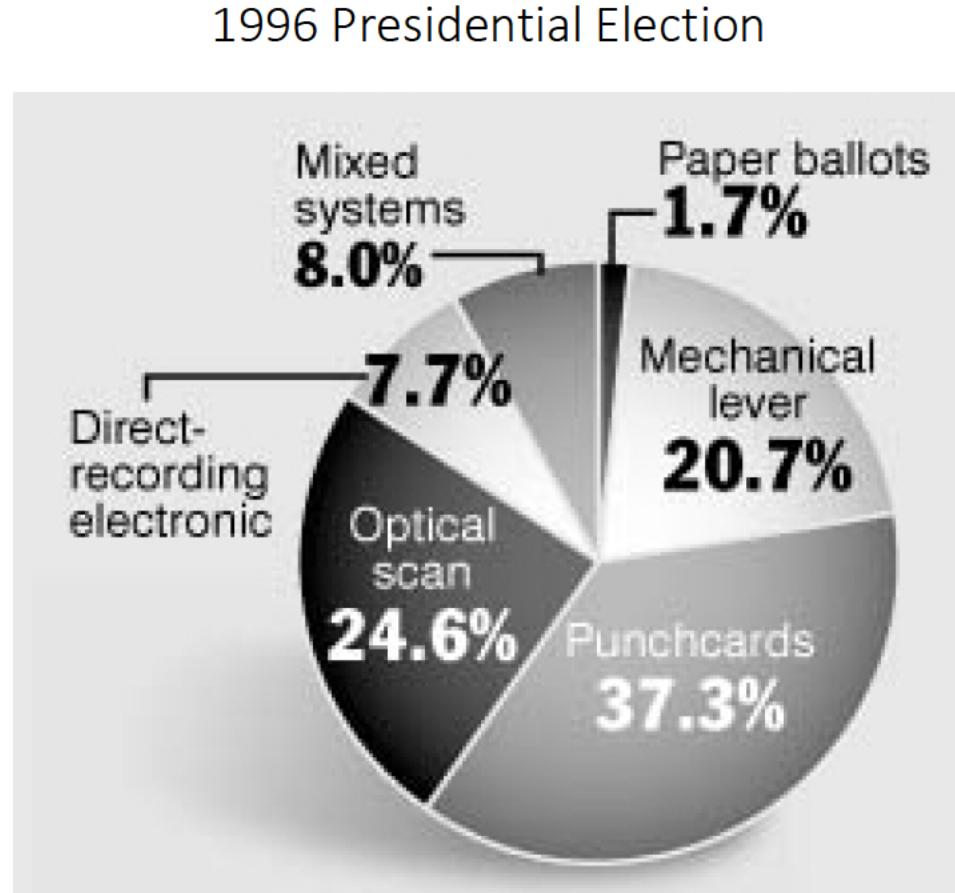


Sun-Sentinel graphic

Voting Machine Security



Types of Voting Machines



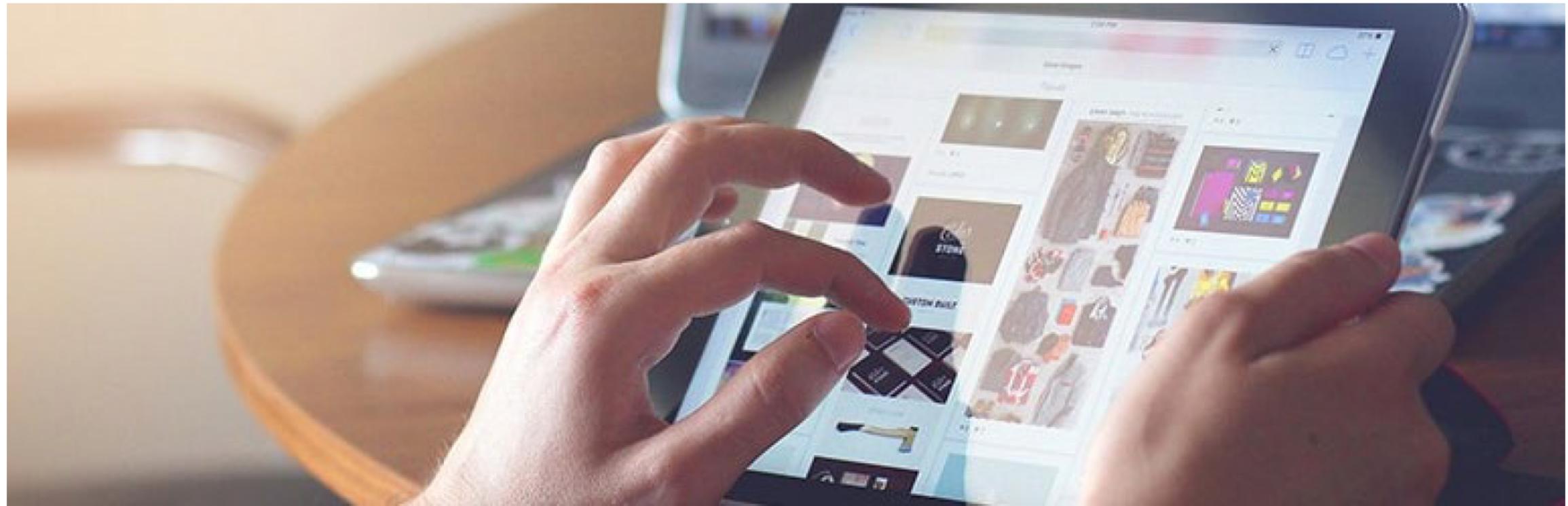
Type of voting system	How the system works	Advantages	Disadvantages
Paper ballots	Voters mark choices on ballots and drop them in a sealed box.	Inexpensive; used mostly in rural areas.	Counting votes is slow and labor-intensive.
Mechanical lever	Voters pull a lever assigned to a candidate.	Easy to use; prevents multiple votes for the same race.	Machines can weigh 900 pounds and are no longer manufactured.
Punchcards	Voters punch holes in a ballot; ballots are then read by a computer.	Cheaper; more portable.	Can be inaccurate and unreliable; hand recounts pose problems.
Optical scan	Voters darken an oval or rectangle next to their choice; ballots are then read by a computer.	Easy to use; the process is similar to marking lottery tickets or standardized tests; hand recounts are possible.	Improperly marked ballots may not be recorded; high cost.
Direct-recording electronic	Touch-screen electronic display.	Easy to use; vote totals can be instantly printed on tape and recorded on a cartridge.	Computers provide no external way to verify vote accuracy.

New Legislation on Voting Machines



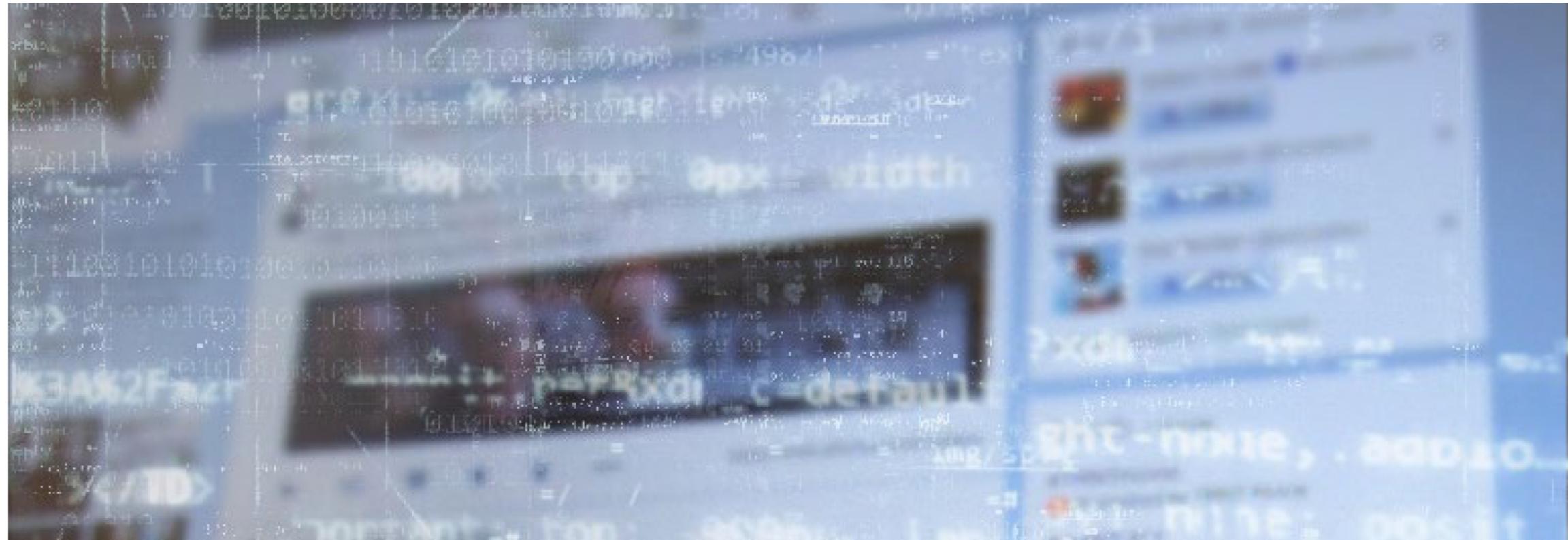
FEDERAL MONEY ALLOCATION – STATE & LOCAL TRAINING – STATE AUDITS

How Social & Digital will Continue to be Exploited: Voting



BOT CAMPAIGN ADVERTISING – FAKE NEWS AUTOMATION

How Social & Digital will Continue to be Exploited



DATA LEAKS – NEW SOCIAL & DIGITAL NETWORKS – PHISHING & SPOOFING

Absorb and Apply

PEOPLE

- Authenticate personal social media accounts with a protection technology
- Enable 2FA for all logins – email, social media, music sites, job sites, file sharing sites
- Change passwords **at least** twice a year
- Don't connect with / friend people you don't know & verify that a profile that looks like someone you know is in fact their profile
- Don't click links from untrusted sources

ORGANIZATION

- Authenticate corporate social media accounts with protection technology
- Enforce a password policy that applies to social media and other digital accounts as well as other infrastructure
- Create social media & digital protection program
- Prioritize identification & remediation



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