



SECURITY WITHOUT “SECURITY”

DIVERSITY, VISIBILITY, AGILITY

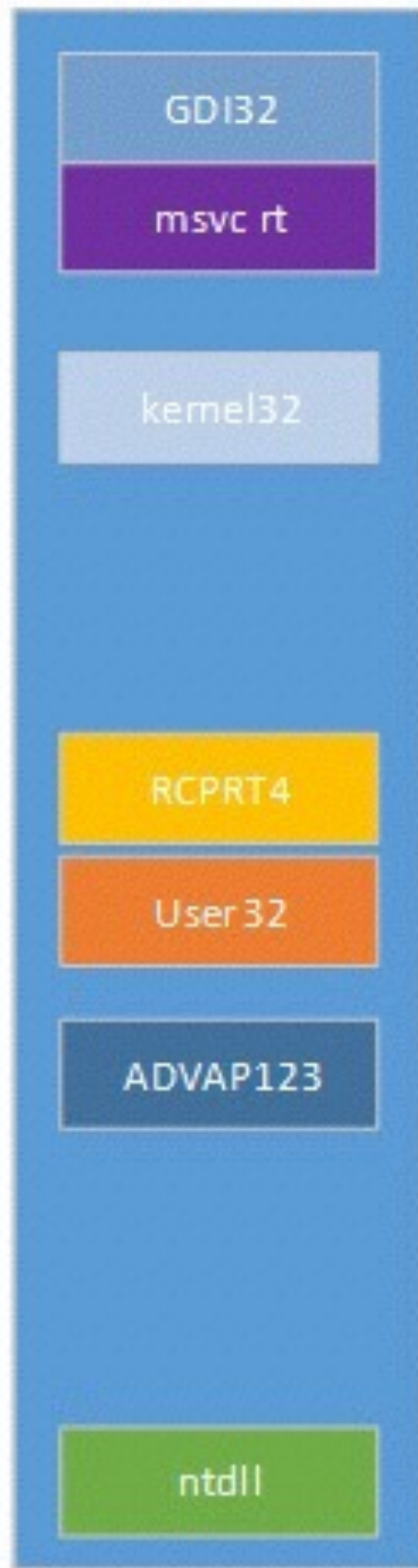
Dino Dai Zovi
@dinodaizovi

DIVERSITY

**A MONOCULTURE OF NETWORKED
COMPUTERS IS A CONVENIENT AND
SUSCEPTIBLE RESERVOIR OF PLATFORMS
FROM WHICH TO LAUNCH ATTACKS**

Dan Geer et al

First Start



Second Start



Third Start







OpenSignal

Galaxy S III

Galaxy S5

SM-G530H

Galaxy Note 3

Galaxy S4

Galaxy S4

Moto G

Moto G

GT-S7580

SM-N9005

SM-G355H

Galaxy S II

Moto G

D6503

SM-G7102

GT-I8262

GT-N7100

GT-S7582

G3

Galaxy S5

One

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

Nexus 6

Joy

A6000



STAGE / FRIGHT

VISIBILITY



Android Malware: A Threat Rising at a Meteoric Rate

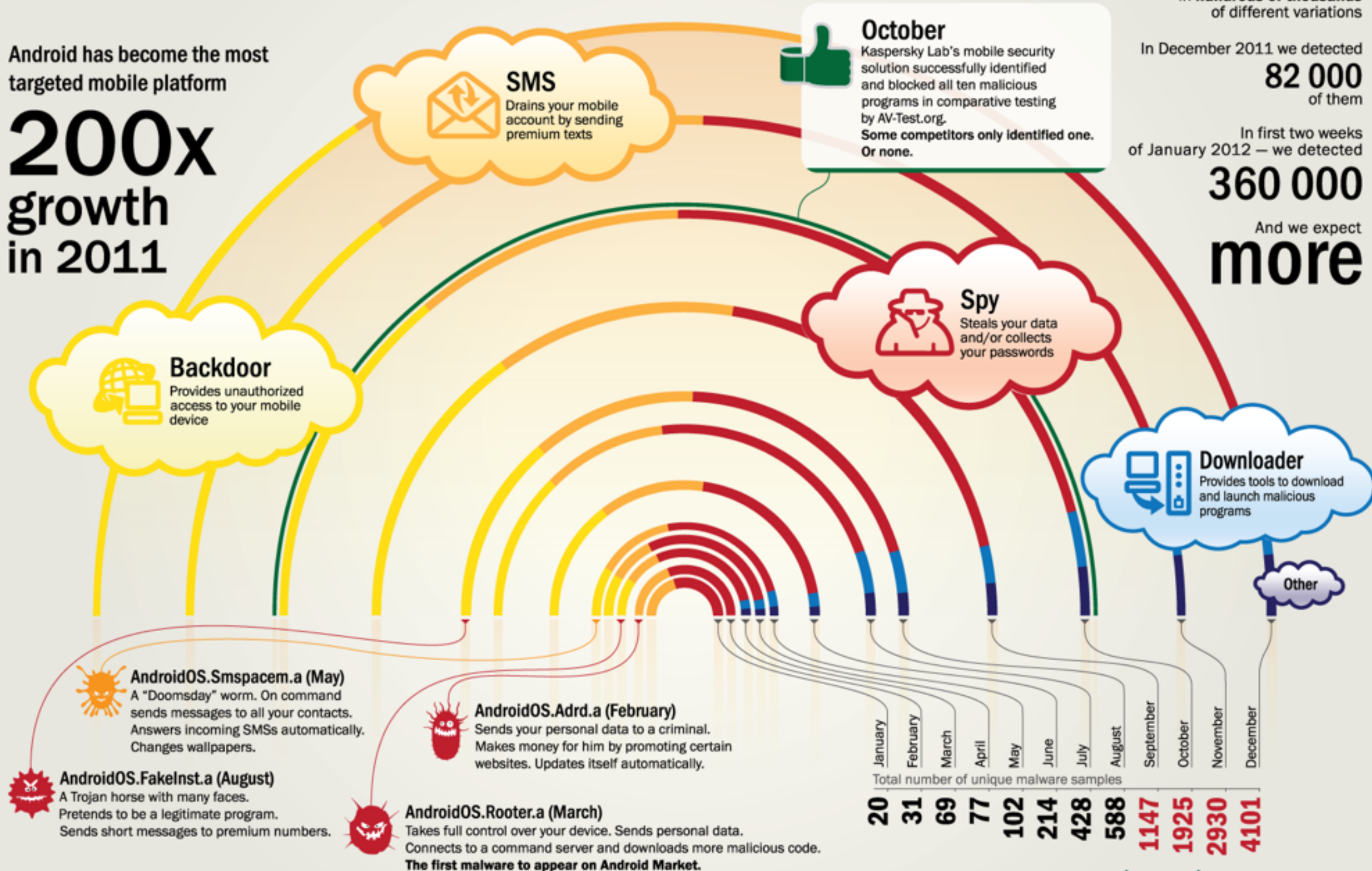
Android has become the most targeted mobile platform

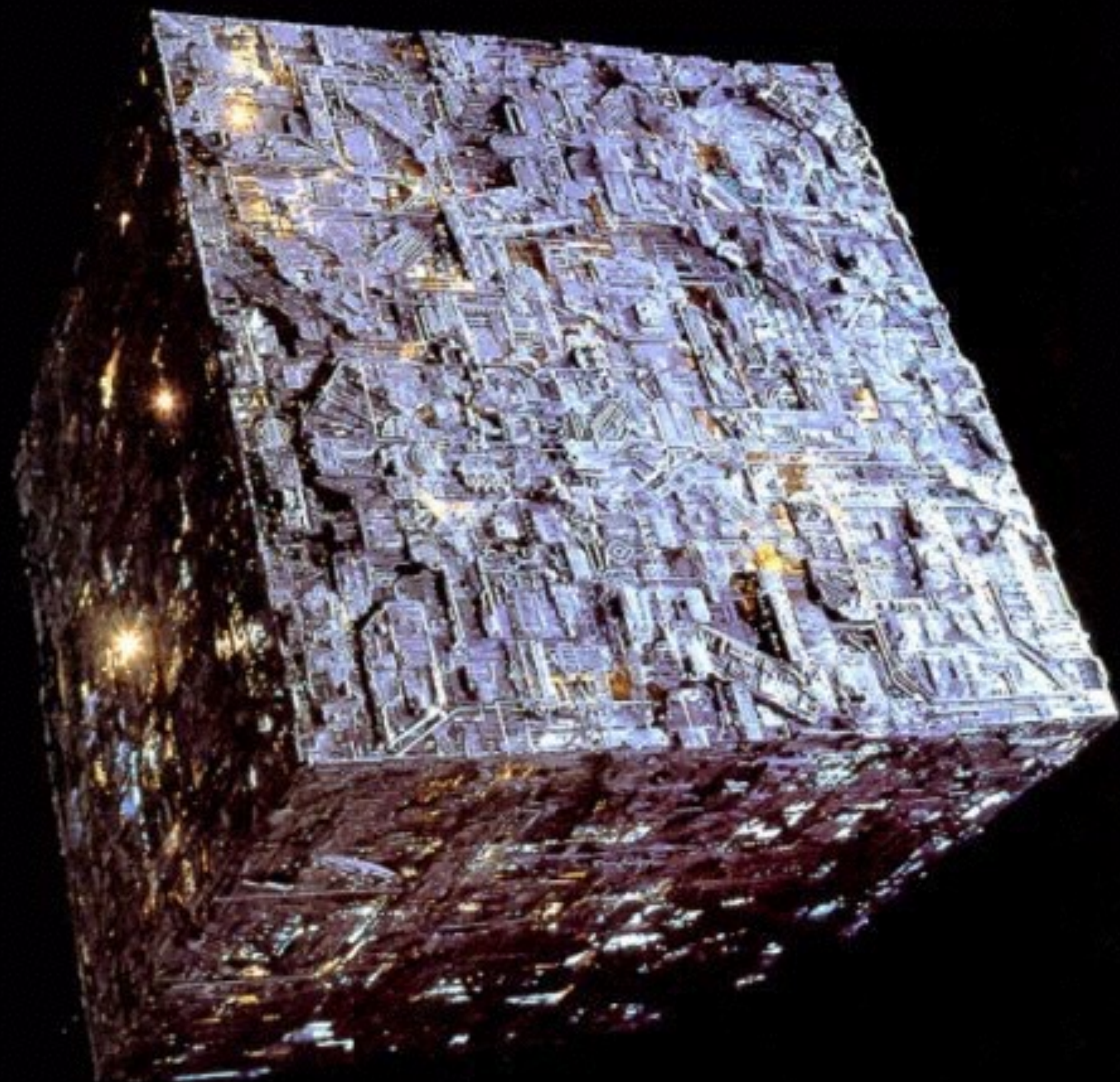
200x
growth
in 2011

One sample of malware can appear
in **hundreds of thousands**
of different variations

In December 2011 we detected
82 000
of them

In first two weeks
of January 2012 – we detected
360 000
And we expect
more



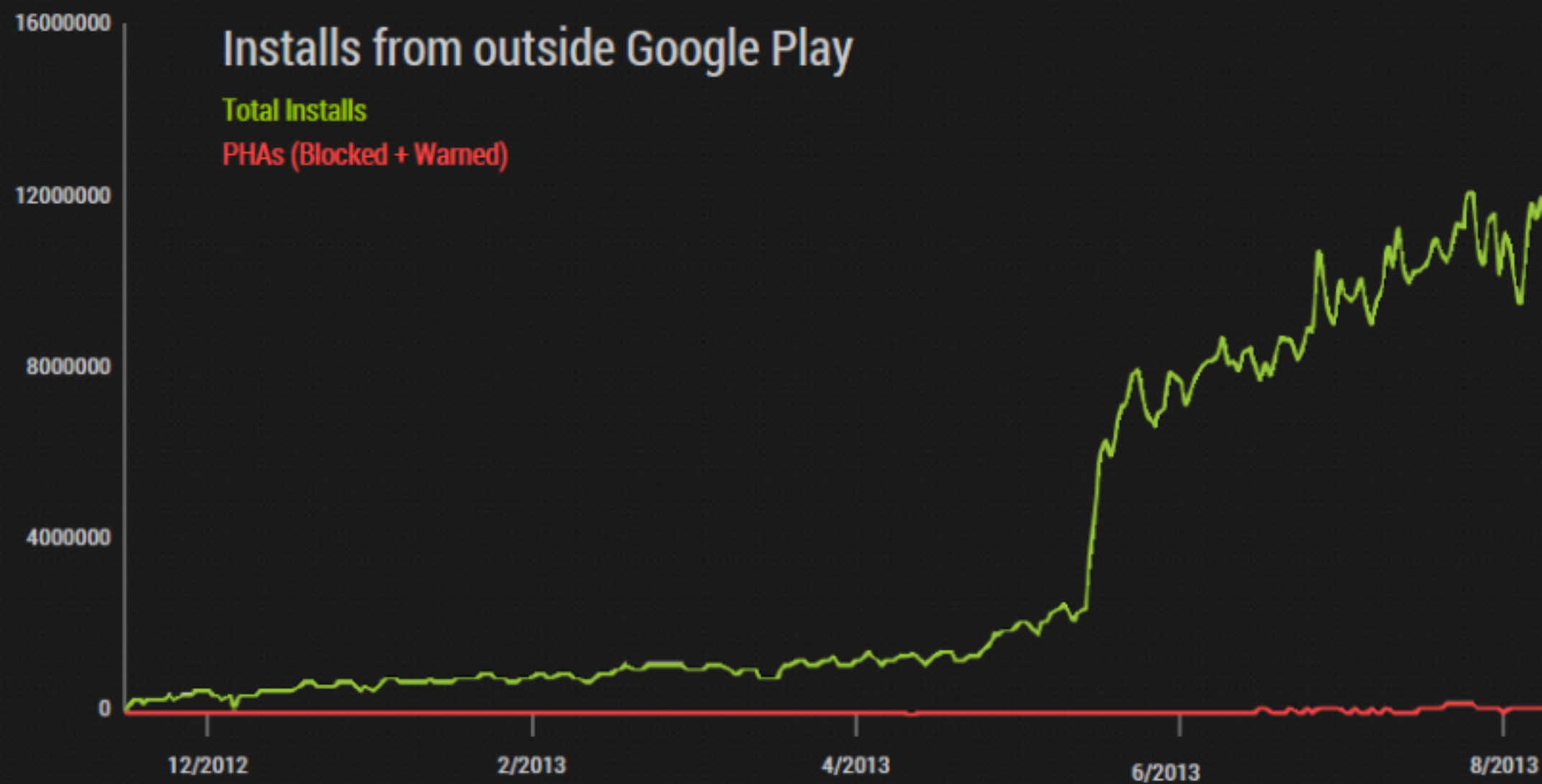


**AN ESTIMATED 0.001% OF APP
INSTALLATIONS ON ANDROID ARE ABLE
TO EVADE THE SYSTEM'S MULTI-LAYERED
DEFENSES AND CAUSE HARM TO USERS**

<http://qz.com/131436/contrary-to-what-youve-heard-android-is-almost-impenetrable-to-malware/>

[HOME](#)[LAYERED SECURITY](#)[CLARITY IN THE DATA](#)[INDUSTRY RESPONSIBILITY](#)

Analyzing 1.5 Billion Installs from outside Google Play

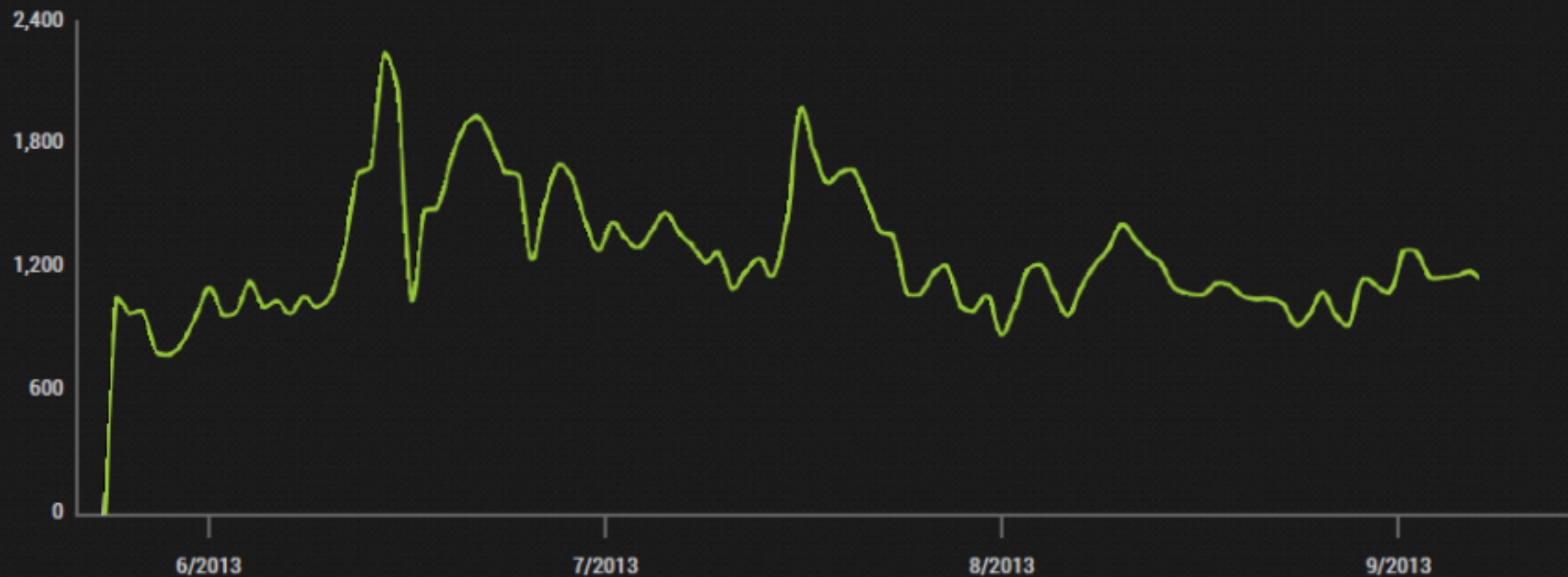


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Potentially Harmful App Installs Low and Stable

Installs (p/million)

Installs After Warning



AGILITY





