passwords are dead,
long live passwords!
Hi, I'm Alejandro (@a0viedo on social media)

I work on systems

I'm a GDE for the Web platform

I co-organize NodeConf Argentina
this talk is about the web
but first, a recap on passwords
DEPARTMENT OF DEFENSE

PASSWORD MANAGEMENT

GUIDELINE

Approved for public release; distribution limited.

12 April 1985

DEPARTMENT OF DEFENSE
COMPUTER SECURITY CENTER
Fort George G. Meade, Maryland 20755
WHAT'S NEXT; Instead of a Password, Well-Placed Clicks

MAY 2, 2002
Gates predicts death of the password

Traditional password-based security is headed for extinction, says Microsoft's chairman, because it cannot "meet the challenge" of keeping critical information secure.

BY MUNIR KOTADIA / 25 FEBRUARY 2004 9:27 PM GMT
“[Passwords] just don’t meet the challenge for anything you really want to secure.”

Bill Gates
Through 20 years of effort, we've successfully trained everyone to use passwords that are hard for humans to remember, but easy for computers to guess.
One touch-recognition password involves turning an image of a combination lock 90 degrees.
Fred R. Conrad/The New York Times
Your Heartbeat Is Your New Password

Wristband identifies you based on your heartbeat
“An investigation into users’ considerations towards using password managers”

Fagan, Albayram, Khan and Buck - 2017

More “users” than “non-users” in our sample report higher technical expertise, especially in the area of computer security, which could reflect an actual higher technical proficiency among “users”
enter a new era
FIDO

webauthn

CTAP1
demo
UAF eliminates passwords
UAF changes drastically the flow
UAF requires a hardware integration

U2F requires hardware integration, but can be upgraded progressively
U2F complements passwords
enter a new era v2
FIDO2

webauthn

CTAP2
single factor - w/ or w/o passwords
single factor - w/ or w/o passwords

second factor - w/ or w/o passwords
single factor - w/ or w/o passwords
second factor - w/ or w/o passwords
multi-factor - w/ or w/o passwords
will this means it's the end of passwords?
thanks for listening

bit.ly/passwords-are-dead

@a0viedo