typing**dna**

We enable apps to recognize users based on the way they type.

How we usually authenticate people 3. You are 2. You have 1. You know (biometrics) (phone, token) (password) ***



What types of biometrics can you record from the browser?

- 1. Face (camera based)
- 2. Voice (microphone based)
- 3. Fingerprint (peripheral based)
- 4. Behavior (**keyboard**, mouse, intention)

Home > Security



PRIVACY AND SECURITY FANATIC

About | a

Ms. Smith (not her real name) is a freelance writer and programmer with a special and somewhat personal interest in IT privacy and security issues.

Voice hackers can record your voice then use morpher to trick authentication systems

Researchers are warning that with a few minutes of your recorded voice, attackers can use voice morphing for imitation attacks that can trick machine and human authentication systems.

Typing biometrics is the most accurate and widest available way to authenticate people using something they are.

How phishing works?

(applies to vishing, impersonation too)

How phishing works?

(applies to vishing, impersonation too)

1. First: Get access to user's passwords, personal information, credit cards, etc.

How phishing works?

(applies to vishing, impersonation too)

- **1. First:** Get access to user's passwords, personal information, credit cards, etc.
- **2. Second:** Break into the user's account, use the information you obtained at 1.

Breaking in

- 1. User logs in or forgets/resets password
- 2. FLAG when from an unknown/new location
- 3. Potential takeover2nd factor should be mandatory at this point

Your account is yours only

- When you shouldn't be allowed to share your account (protecting from you) e-learning/exams/certifications, e-voting, corporate account, premium apps, etc
- 2. When you need more protection emails, social networking, personal data, health records, bank payments, other apps

How to prevent that?

Use TypingDNA Authentication API Works with any browser, any keyboard.

Implement our solution as a 2nd layer in any app and prevent account takeover and sharing starting today!

http://typingdna.com

Optionally

Use typing biometrics together with SMS OTP or email to reset or even get rid of passwords

Use typing biometrics as an alternative to OTP

Why it matters?

raul@typingdna.com

A320

Danske Bank

Continuous Authentication

0% 40% 60% 80% 100%

8

9

TYPING ACCURACY FACTOR

raul@typingdna.com

O

2

Prevent intruders Prevent coworkers, friends & family Prevent keyboard based attacks

0% 40% 60% 80% 100%

TYPING ACCURACY FACTOR





Mac & PC app in development

8 9 O Sign up for Beta 2 http://typingdna.com

0% 40% 60% 80% 100%

TYPING ACCURACY FACTOR

Typing biometrics methods

- **1.** Short identical texts (80-90% acc.) Usernames, Emails, Passwords, Credit Cards, PINs.
- **2. Longer identical texts (**95-99% acc.) The bad: actively engages the user
- **3. Longer free texts (**+99% acc., min 60 chars) Can be used passively for enrollment & verification

1. One engineered pattern to unlock all. NO!

- 1. One engineered pattern to unlock all. NO!
- 2. Mimic rhythm/sound. NO!

- 1. One engineered pattern to unlock all. NO!
- 2. Mimic rhythm/sound. NO!
- 3. Input text based on a user profile. PROBABLY.

- 1. One engineered pattern to unlock all. NO!
- 2. Mimic rhythm/sound. NO!
- **3. Input text based on a user profile. PROBABLY.**
- 4. Very slow, 2-finger typing easier to replicate!

Wrap up

Questions