



# Biometric Data

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How secure is my information really?

# What is it?

Personal data derived from specific technical processing of physical characteristics from an organic entity.

## Fingerprint Scanning

Optical/Thermal Sensors

- + Universally known as unique, Cost effective
- Injury, unconsciously used

## Facial Recognition

Image/Video

- + Minimal interaction
- Clothing, injury, lighting, facial expression

## Voice Recognition

Microphone: Alexa, Siri, Cortana

- + Natural means of communication
- Injury, background noise, accents

# Biometric Security Data: Storage

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## Encrypted enclave

- + Secure, local
- Additional cost

## External Server

- + Cost effective
- + Multiple location Verification
- Vulnerable during data transmission

"Suprema, 2019" breach

# Misuse

“what many big tech companies, and increasingly governments, want to do with data are to link different databases.”

Paul Wiles, UK based  
Biometrics  
Commissioner

## Aggregation

- Aggregation of biometric data with other Personal Identifiable Information (PII) and non-PII
- PII: name, address, national ID numbers
- Non-PII: cookies, product statistics

## Fallout

Multiple data points now connected

- Value of data increased
- Increasing digital footprint permanency

# Combative Measures

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Despite probable risks, biometric technology is the future.

## Public & Private Cooperation through GDPR

- Explicit consent
- Right to be forgotten

## Public Awareness

- Education of online presence/collection
- Security Savvy

## Personal Security Measures

- 2FA
- Up-to-date software

# Resources

<https://www.phonexia.com/en/blog/5-popular-types-of-biometric-authentication-pros-and-cons/>

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<https://www.dentons.com/en/insights/alerts/2020/december/22/gdpr-update-biometric-data>

<https://www.good-id.org/en/glossary/Biometric-data/>

<https://www.forbes.com/sites/forbestechcouncil/2019/01/16/how-to-combine-physiological-biometrics-and-blockchain-for-heightened-security/?sh=69e0fcf25d5c>