

PRIVACY IN THE AGE OF ANALYTICA

ANDREW LOMBARDI @KINABALU

1 - 🔰 @KINABALU



ABOUT ME

2 - 🟏 @KINABALU

ABOUT ME

- > 20 YEARS IN BUSINESS
 - 11X @ JAVA 2DAYS
 - PUBLISHED AUTHOR
- SOFTWARE CONSULTANTS & SPEAKERS
 - INVENTED THE INTERNET

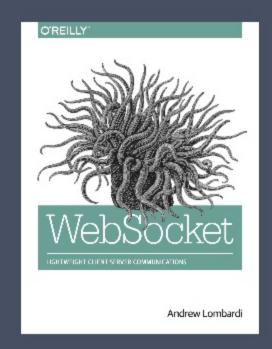
TO OUR SUCCESS!

BEGINNING SPRING 5



HTTPS://BIT.LY/BEGINNINGSPRING5

WEBSOCKET



HTTPS://BIT.LY/WEBSOCKETBOOK



THEY ARE WATCHING YOU

WHY DO I CARE?

- > LIMIT ON POWER
- REPUTATION MANAGEMENT
 - SECURITY
 - TRUST
- FREEDOM OF THOUGHT AND SPEECH

BUT HAVENOTHING TO HIDE!

ARGUING THAT YOU DON'T CARE ABOUT THE RIGHT TO PRIVACY BECAUSE YOU HAVE NOTHING TO HIDE IS NO DIFFERENT THAN SAYING YOU DON'T CARE ABOUT FREE SPEECH BECAUSE YOU HAVE NOTHING TO SAY."

- EDWARD SNOWDEN

IDENTITY THEFT

16.7 MILLION VICTIMSIN 2017

S17 BILLION

40% OF CONSUMERS

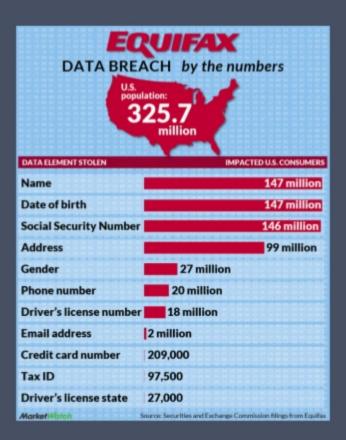
1.3 MILLION CHILDREN IDENTIFIES STOLEN

:--HAVE I BEEN PWNED?

HTTPS://HAVEIBEENPWNED.COM/

- > WEBSITES: 417
- > ACCOUNTS: 9,139,071,108

APACHE STRUTS CVE-2017-9805



CAR STICKERS



SOCIAL MEDIA

TOP 10 IOS APPS

- ➤ YOUTUBE
- > INSTAGRAM
- SNAPCHAT
 - > TIKTOK
- MESSENGER
 - > GMAIL
 - NETFLIX
- > FACEBOOK
- GOOGLE MAPS
 - > AMAZON

TOP 10 WEBSITES

- GOOGLE.COM
- > YOUTUBE.COM
- > TMALL.COM
- > FACEBOOK.COM
 - > BAIDU.COM
 - QQ.COM
 - > SOHU.COM
- > TAOBAO.COM
- > LOGIN.TMALL.COM
 - WIKIPEDIA.ORG

21 - ACCORDING TO ALEXA

facebook



23 - 💓 @ KINAB ALU

FACEBOOK OWNS

- INSTAGRAM
- WHATSAPP

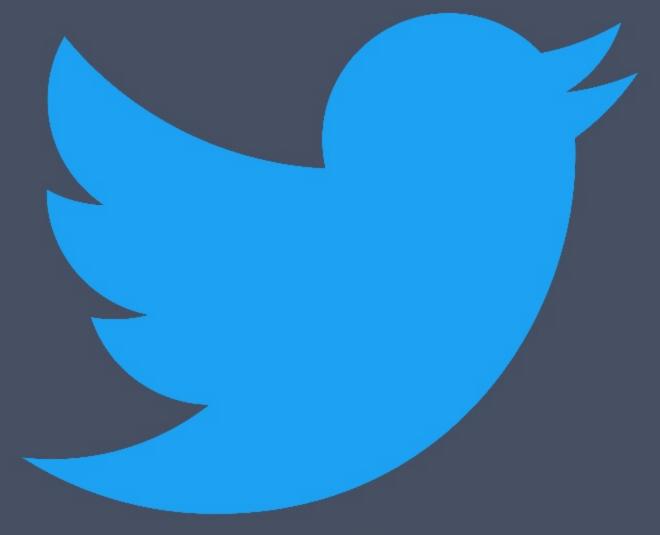


2018 AD REVENUE 55 BILLION USD

GOOGLE

- > RUNS TOP 3 APPS ON IOS
- > RUNS TOP 2 WEBSITES WORLDWIDE
 - ANDROID
 - CHROMEBOOK
 - NEST
 - > FITBIT

2018 AD REVENUE



29 - BY SOURCE, FAIR USE

2018 AD REVENUE 261/81101150

amazon

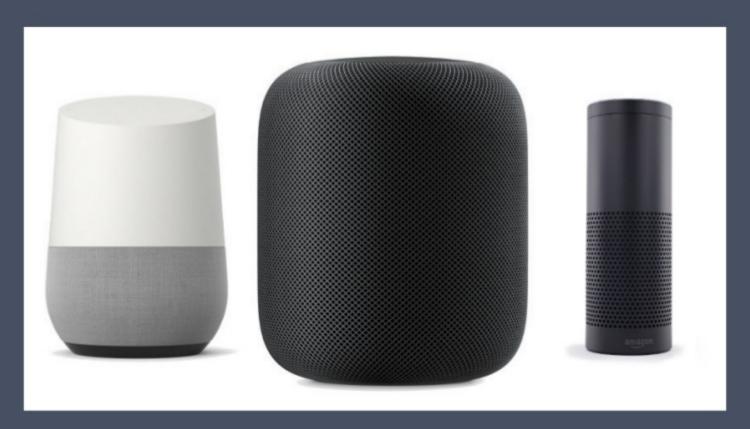
2018 REVENUE 51 BILLION USD 21 BILLION USD AD REVENUE

ARE THE PRODUCT

34 - 🔰 @ KINAB ALU



SMART SPEAKERS



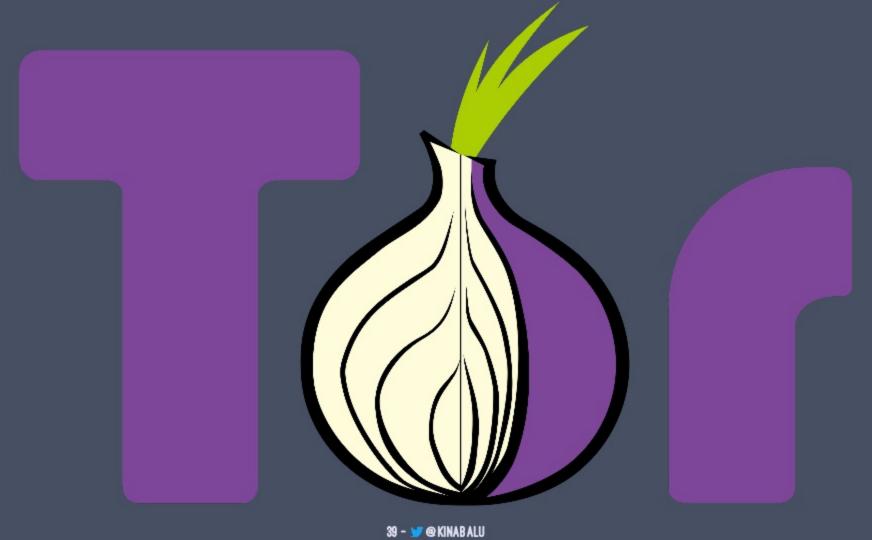


IT IS WIDELY KNOWN NOW THAT THE FBI IN THE '50S AND '60S COMPILED FILES ON PROMINENT CIVIL RIGHTS ACTIVISTS, ON PRESIDENTS AND OTHER PEOPLE OF IMPORTANCE.

QUESTION: WHAT VALUE DID THAT HAVE IN SWAYING THE THOUGHTS OF LEADERS?

THE HAND OF THE MOST HONEST OF MEN, I WILL FIND SOMETHING IN THEM WHICH WILL HANG HIM."

- MARCUS FABIUS QUINTILIANUS





WHAT IS TOR GOOD FOR?

- > ANONYMITY
- LIVING IN DICTATORSHIP
- JOURNALIST IN OPPRESSIVE COUNTRY
 - WHISTLEBLOWER (SNOWDEN)
 - HACKER
 - ILLEGAL ACTIVITY







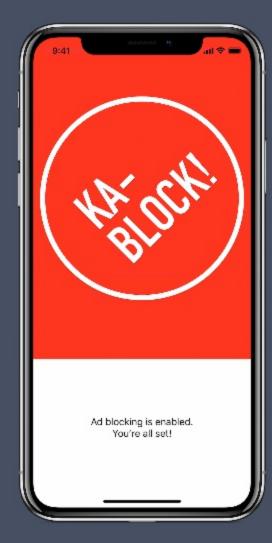
CHOOSE A BETTER BROWSER

- BRAVE
 - > TOR
- FIREFOX QUANTUM
 - SAFARI

NOT CHROME

INSTALL AD BLOCKERS

- KA-BLOCK
- DISCONNECT
 - UBLOCK



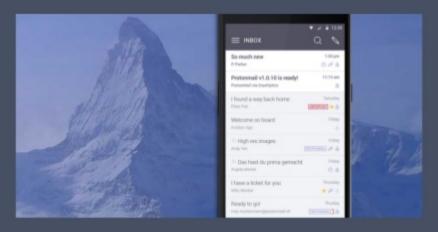
TURN OFF LOCATION SERVICES





SECURE EMAIL

2 ProtonMail



52 - <u>By Jasonstockman - Own Work, CC By-sa 4.0</u>

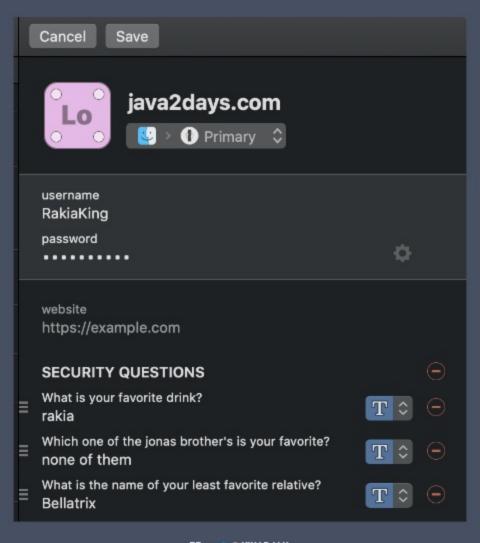
PASSWORD MANAGERS

NOT JUST FOR PASSWORDS

POPULAR PASSWORD MANAGERS

KEEPASSXC OPEN SOURCE





TWO-FACTOR AUTHENTICATION (2FA)

- SMS PASSCODES
- > PHONE CALLBACKS
- SECURITY TOKENS (GOOGLE AUTHENTICATOR, DUO, AUTHY)
 - PUSH NOTIFICATIONS
 - TOTP
 - U2F DEVICES

TWO-FACTOR AUTHENTICATION (2FA)

- GOOGLE AUTHENTICATOR
 - > DUO
 - AUTHY

DON'T KEEP ALL YOUR VALUABLES IN ONE PLACE







Firefox Monitor warns you about data breaches involving your personal info. We just received details about another company's data breach.



Data Enrichment Exposure From PDL Customer

Breach added:

November 22, 2019

Compromised data:

Phone numbers, Email addresses

More about this breach

Learn more about <u>Firefox Monitor</u>

Breach data provided by <u>Have I Been Pwned</u>

See All Breaches

DON'T GOOGLE. DUCKLE?



KDUCKGO.

SUPPORTIVE LAWS

- > GDPR
- CALIFORNIA PRIVACY ACT (CCPA)
 - **>** MORE...?

PRIVACY IS RARELY LOST IN ONE FELL SWOOP. IT IS USUALLY ERODED OVER TIME. LITTLE BITS DISSOLVING ALMOST IMPERCEPTIBLY UNTIL WE FINALLY BEGIN TO NOTICE HOW MUCH IS GONE.

- - DANIEL J. SOLOVE

MORE READING ON PRIVACY

SURVEILLANCE SELF-DEFENSE BY EFF
THE US GOVERNMENT HAS BETRAYED THE INTERNET. WE NEED TO
TAKE IT BACK

КРАЙ НА РАЗГОВОРА







ANDREW LOMBARDI / @KINABALU MYSTIC CODERS, LLC

MYSTICCODERS.COM

BIT.LY/BEGINNINGSPRING5

BIT.LY/WEBSOCKETBOOK