

Dove finiscono i miei dati quando sono “nel Cloud”?

...

Riccardo Serafini
Linux Day 2017 - Fabriano

Riccardo Serafini



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



```
[~] >: http https://tapion.it
HTTP/1.1 200 OK
Connection: keep-alive
Content-Encoding: gzip
Content-Type: text/html; charset=utf-8
Date: Mon, 23 Oct 2017 12:43:39 GMT
Last-Modified: Mon, 08 May 2017 15:58:42 GMT
Server: nginx
Strict-Transport-Security: max-age=15768000
Transfer-Encoding: chunked
```

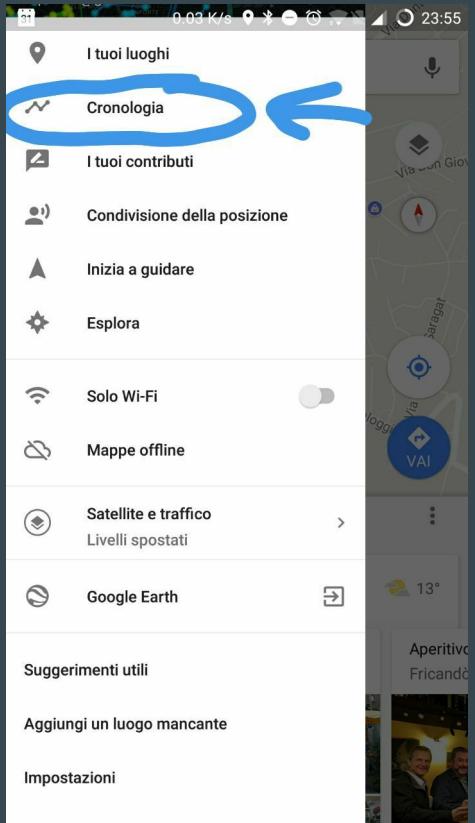


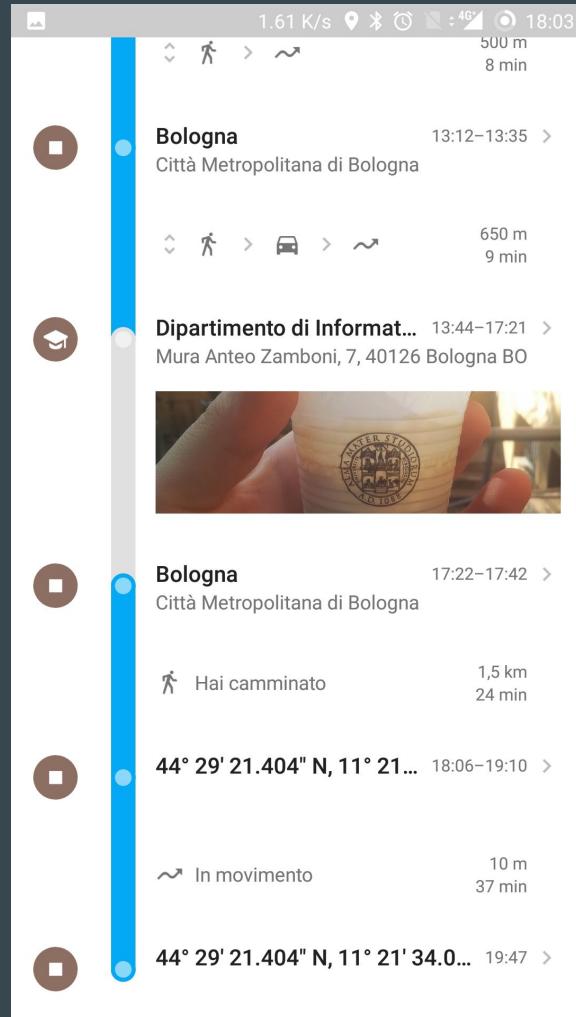
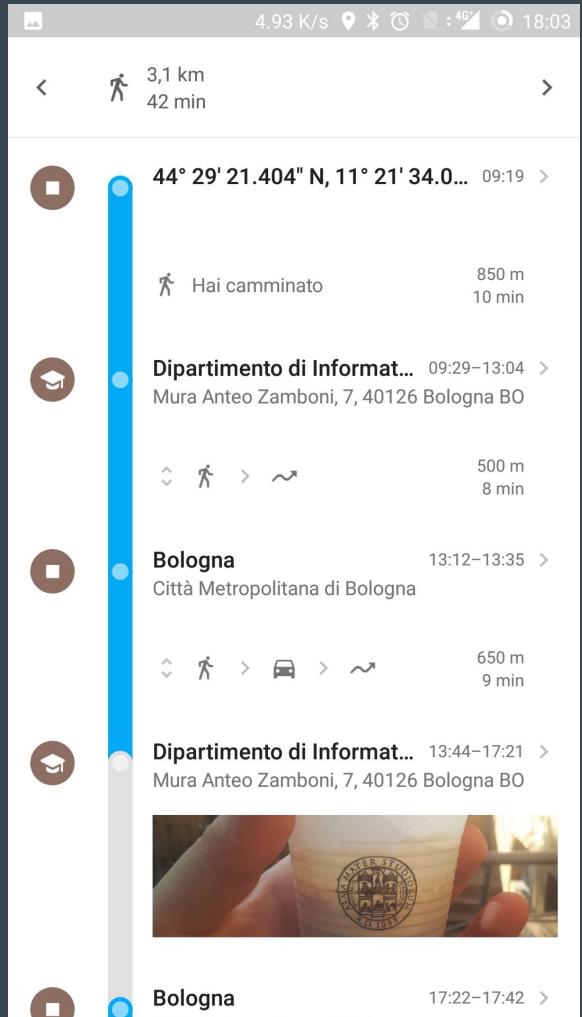
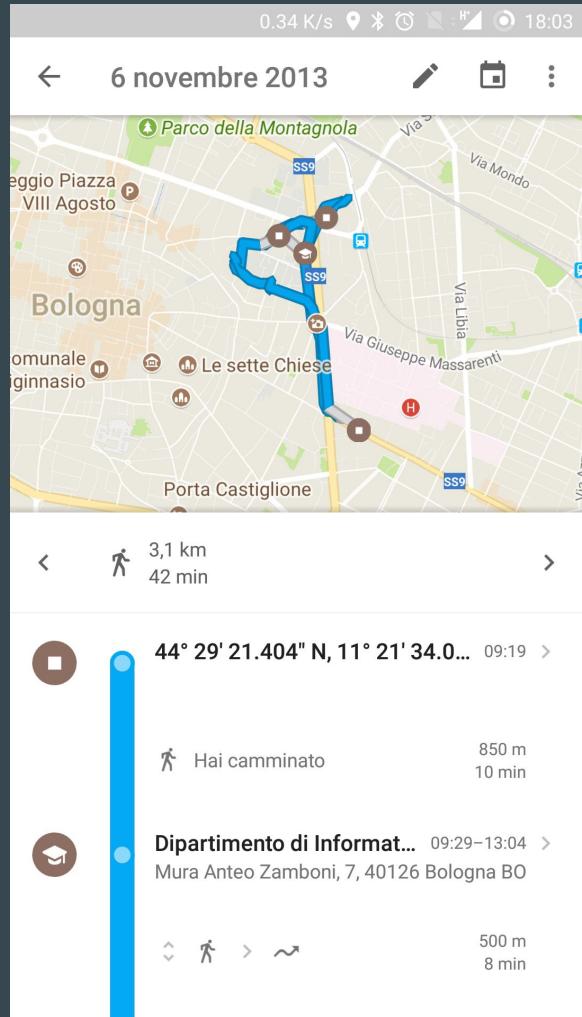
django



Dove si trovava il 6 Novembre 2013?

Cronologia delle posizioni Google







0.00 K/s ⌂ ⚡ 4G 18:04

← Foto :



Dipartimento di Informatica - Scienza e Ingegneria

Riccardo Serafini

Google Foto

Google Foto è un servizio di Google Inc. che fornisce una libreria personale per immagazzinare foto e video da un dispositivo o da Google Drive. Supporta tutti i principali formati di foto e video attualmente presenti. [Wikipedia](#)

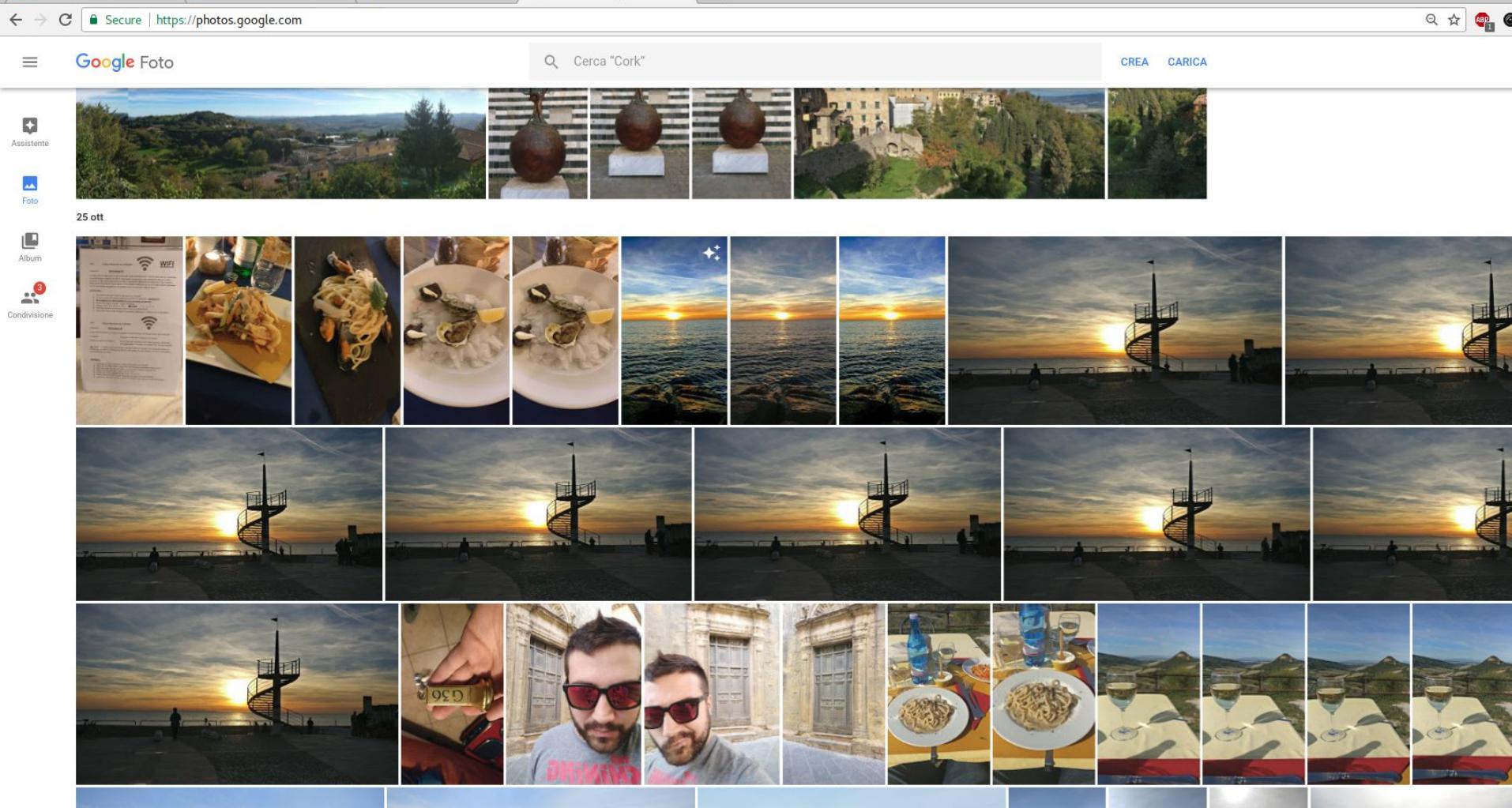
Data Di Lancio: 28 maggio 2015

Ricerche correlate

Visualizza altri 15 elementi

Google Drive Picasa iCloud Google Documenti Dropbox

Feedback





Informazioni

X

Aggiungi una descrizione

Dettagli

25 ott
mer, 17:16

IMG_20171025_171644.jpg
12.1 MP 2610 x 4640 1.8 MB

ONEPLUS A3003
f/2 1/17 4.26 mm ISO4000

Montecatini Val di Cecina PI
Località stimata
[Che cos'è una località stimata?](#)



Cos'è il CLOUD?







qualche esempio:



LED Lights & Flashlights ▾

Smart Lighting



Xiaomi Yeelight AC220V RGBW E27 Smart LED Bulb - SILVER
16 Million Colors 1700 - 6500K WiFi Enabled Work with Amazon Alexa MIJIA IFTTT

Brand: [Xiaomi](#) (2210 Customer Reviews) | 73 answered questions

Dispatch: Ships between Nov 3 - Nov 6

Discount : 24% OFF Promo ends in: 3 days 17:22:36

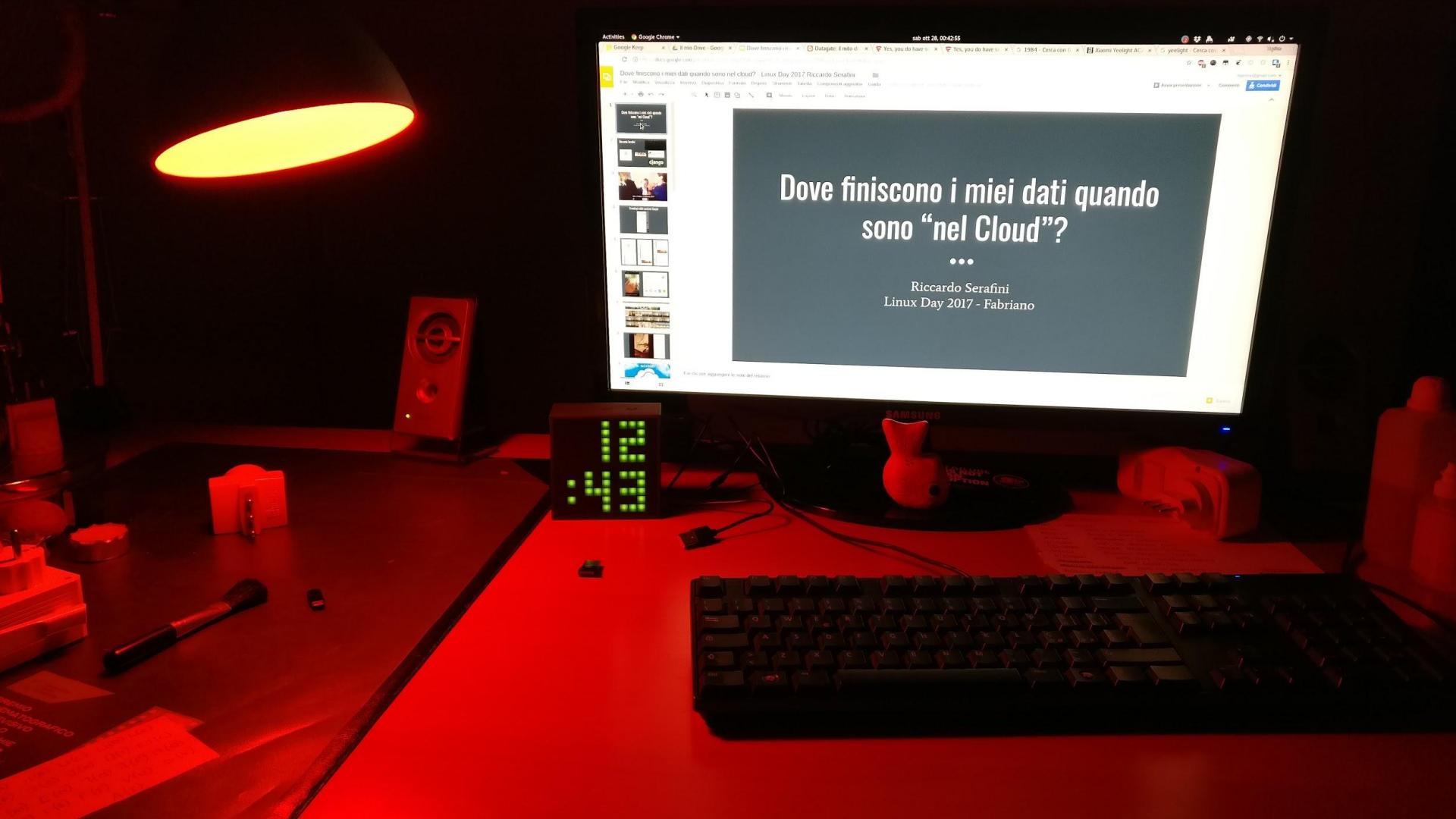
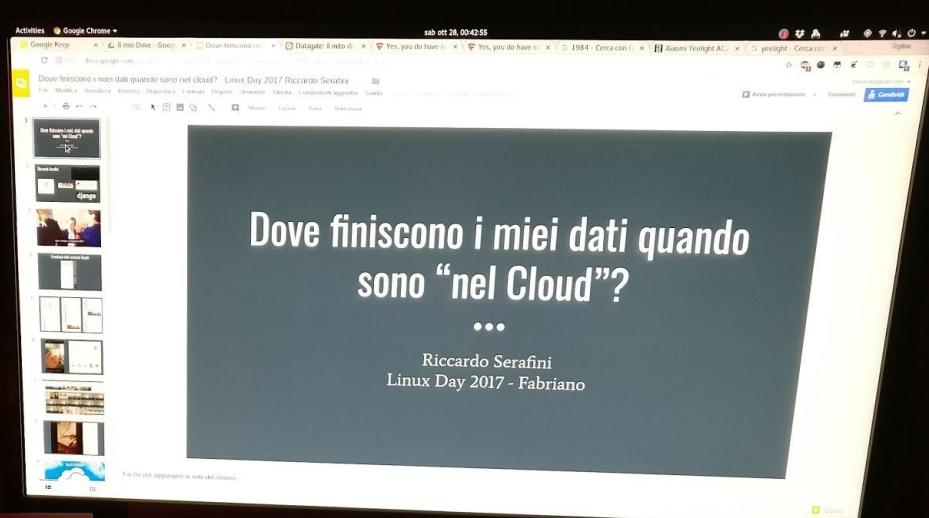
Additional Purchase Deal: For any Item Total over €50.77, purchase 1 Special Promo Item for shopping cart before checkout. [View Promo >>](#)

Flash Sale Price **€14.29**

798 Pieces left

QTY: - 1 +

Color: SILVER

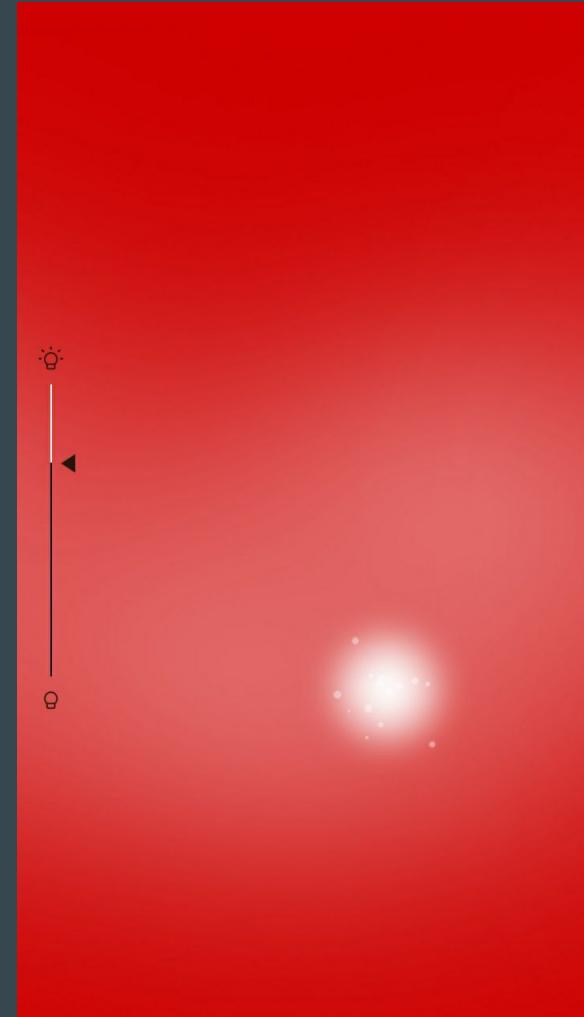
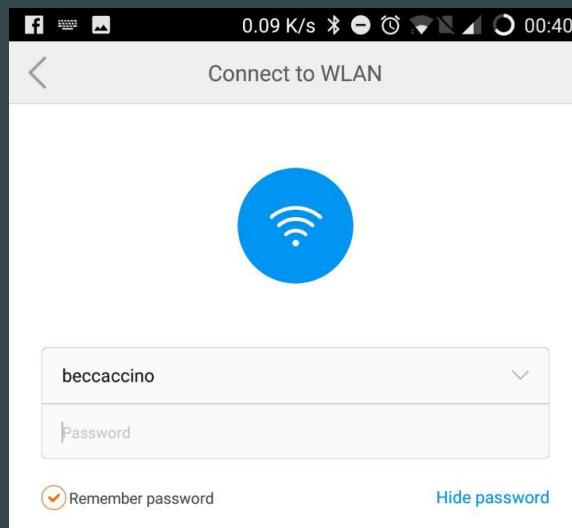
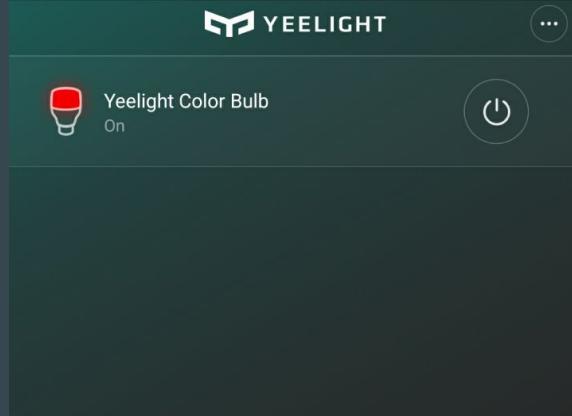


2.54 K/s ⚡ 00:38



Light Up Your Life

62.6 K/s ⚡ 00:44









Originale Xiaomi Mi Band 2 Cardiofrequenzimetro intelligente Braccialetto - Nero

Selezione Magazzino: IT-CN

Data di spedizione: 29 Ott. - 30 Ott.

Sconto: 51% OFF La promozione Termina in 3 giorni 05:04:49

Offerta lampo a soli **€19.46**

15 Articoli rimanenti

Quantità: **1** Colore: **NERO**Costi di spedizione: **SPEDIZIONE GRATUITA** to **Italy Via Posta Tracciabile** ▾

Aggiungi al carrello

Aggiungi ai preferiti

78592



TAX Informazione di Tasse

⚠ Error

Prezzo Protetto

Disclaimer sul prezzo



0.82 K/s 01:02



Mi Fit

www.mi.com

12.5 K/s 00:59

< Frequenza cardiaca >

193

ott 27

23:23
193 BPM

15:36
73 BPM

ott 26

19:08
110 BPM

19:07
57 BPM

16:03
96 BPM

01:10
62 BPM



Misura

0.00 K/s 00:58

< ott 27 >

10/20 10/21 10/22 10/23 10/24 10/25 10/26 Oggi

9.25 m
Nel letto per

3.28 m
Sonno profondo

5.57 m
Sonno leggero

00:04
Addormentato alle

09:29
Svegliato alle

0 min
Tempo da sveglio

1 g

7 s

30 m

\$50 or I tweet this out.



<https://www.chrisdcmoore.co.uk/post/oneplus-analytics/>

The screenshot shows the Wireshark interface with the following details:

Request Panel (Text View):

```
POST https://open.oneplus.net/cloud/pushdata HTTP/1.1
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Content-Length: 919
Connection: Keep-Alive
User-Agent: okhttp/2.3.0
Host: open.oneplus.net

data=eyJ0eSI6
[REDACTED]
[REDACTED]
&access_token=[REDACTED]
```

Bottom Table (Summary View):

| ID | Req. Timestamp | Method | URL | Code | Reason | RTT | Size Resp. Body |
|-----|-------------------|--------|---|------|--------|--------|-----------------|
| 166 | 15/01/17 13:39:40 | POST | https://open.oneplus.net/oauth/token | 200 | OK | 1.32 s | 113 bytes |
| 169 | 15/01/17 13:39:42 | POST | https://open.oneplus.net/cloud/pushdata | 200 | OK | 149 ms | 83 bytes |

```
{  
    "ty": 3,  
    "dl": [  
        {  
            "id": "258cfedb1",  
            "en": "screen_off",  
            "ts": 1484177517017,  
            "oed": [],  
            "it": 0,  
            "rv": "OnePlus20xygen_14.A.27_GLO_027_1612271635"  
        }, {  
            "id": "258cfedb1",  
            "en": "screen_on",  
            "ts": 1484177826984,  
            "oed": [],  
            "it": 0,  
            "rv": "OnePlus20xygen_14.A.27_GLO_027_1612271635"  
        }, {  
            "id": "258cfedb1",  
            "en": "unlock",  
            "ts": 1484177827961,  
            "oed": [],  
            "it": 0,  
            "rv": "OnePlus20xygen_14.A.27_GLO_027_1612271635"  
        }, {  
            "id": "258cfedb1",  
            "en": "abnormal_reboot",  
            "ts": 1484178427035,  
            "oed": [],  
            "it": 0,  
            "rv": "OnePlus20xygen_14.A.27_GLO_027_1612271635"  
        }, ...  
    ]  
}
```

```
{
  "ty": 1,
  "dl": [
    {
      "ac": "",
      "av": "6.0.1",
      "bl": 82,
      "br": "OnePlus",
      "bs": "CHARGING",
      "co": "GB",
      "ga": 11511,
      "gc": 234,
      "ge": 6759424,
      "gn": 30,
      "iac": 1,
      "id": "258cfeb1",
      "im": "123456789012345,987654321098765",
      "imei1": "123456789012345",
      "it": 0,
      "la": "en",
      "log": "",
      "ma": "aa:bb:cc:dd:ee:ff",
      "mdmv": "1.06.160427",
      "mn": "ONE A2003",
      "nc1": "23430",
      "ncn": ",",
      "no1": "23430",
      "non": "EE",
      "not": "LTE",
      "npe": "gb",
      "npn": "07123456789,07987654321",
      "nwa": "aa:bb:cc:dd:ee:ff",
      "nwb": "ff:ee:dd:cc:bb:aa",
      "nwh": false,
      "nwl": 0,
      "nws": "\"CHRISDCMOORE\"",
      "ov": "Oxygen ONE A2003_24_161227",
      "pcba": "",
      "rh": 1920,
      "ro": false,
      "romv": "3.5.6",
      "rw": 1080,
      "sov": "A.27",
      "ts": 1484487017633,
      "tz": "GMT+0000"
    }
  ]
}
```

```
{  
    "ty": 4,  
    "dl": [  
        {  
            "id": "258cfcb1",  
            "pn": "com.Slack20003701",  
            "pvc": "20003701",  
            "tk": [  
                [1484079940460, 1484079952177],  
                [1484081525486, 1484081603191],  
                [1484081603424, 1484081619211],  
                ...  
            ],  
            "it": 0  
        }, {  
            "id": "258cfcb1",  
            "pn": "com.microsoft.office.outlook170",  
            "pvc": "170",  
            "tk": [  
                [1484084321735, 1484084333336],  
                [1484084682578, 1484084683668],  
                [1484084685843, 1484084688985],  
                ...  
            ],  
            "it": 0  
        }, ...  
    ]  
}
```

```
.method public static encodeToBase64(Ljava/lang/String;)Ljava/lang/String;
.method public static getAndroidVersion()Ljava/lang/String;
.method public static getBSSID(Landroid/content/Context;)Ljava/lang/String;
.method public static getBatteryLevel(Landroid/content/Context;)F
.method public static getBatteryStatus(Landroid/content/Context;)Ljava/lang/String;
.method public static getBrandName()Ljava/lang/String;
.method public static getCellSignalLevel(Landroid/content/Context;)Ljava/lang/String;
.method public static getDeviceId()Ljava/lang/String;
.method public static getIMEI(Landroid/content/Context;)Ljava/lang/String;
.method public static getIMEI1(Landroid/content/Context;)Ljava/lang/String;
.method public static getIsHiddenSSID(Landroid/content/Context;)Z
.method public static getLocale(Landroid/content/Context;)Ljava/util/Locale;
.method public static getMacAddr(Landroid/content/Context;)Ljava/lang/String;
.method public static getModelName()Ljava/lang/String;
.method public static getOSVersion()Ljava/lang/String;
.method public static getPCBA()Ljava/lang/String;
.method public static getResolutionHeight(Landroid/content/Context;)I
.method public static getResolutionWidth(Landroid/content/Context;)I
.method public static getRomVersion()Ljava/lang/String;
.method public static getSimCountryCode(Landroid/content/Context;)Ljava/lang/String;
.method public static getSoftVersion()Ljava/lang/String;
.method public static getTimezone()Ljava/lang/String;
.method public static getWifiMacAddress(Landroid/content/Context;)Ljava/lang/String;
.method public static getWifiSSID(Landroid/content/Context;)Ljava/lang/String;
.method public static getWifiSignalLevel(Landroid/content/Context;)I
.method public static isH2()Z
.method public static isO2()Z
.method public static isRooted()Z
```



Christopher Moore

@chrisdcmoore

Follow

Hey @OnePlus_Support, it's none of your business when I turn my screen on/off or unlock my phone - how do I turn this off?

/cc:@troyhunt

2:53 AM - Jan 13, 2017

Q 10 T 79 H 104



Christopher Moore @chrisdcmoore

13 Jan

Replying to @OnePlus_Support

Yes please: how do I turn off this event data collection (which gets sent to open.oneplus.net/cloud/pushdata)?



OnePlus Support

@OnePlus_Support

Follow

Try wiping out the cache.Turn off your device>Power key + volume down>English>Wipe and cache>Wipe Cache>Confirm wipe>Reboot.

6:58 PM - Jan 13, 2017

Q 3 T 1 H



Christopher Moore @chrisdcmoore

13 Jan

Replying to @OnePlus_Support

This had no effect on the usage data collection.



OnePlus Support

@OnePlus_Support

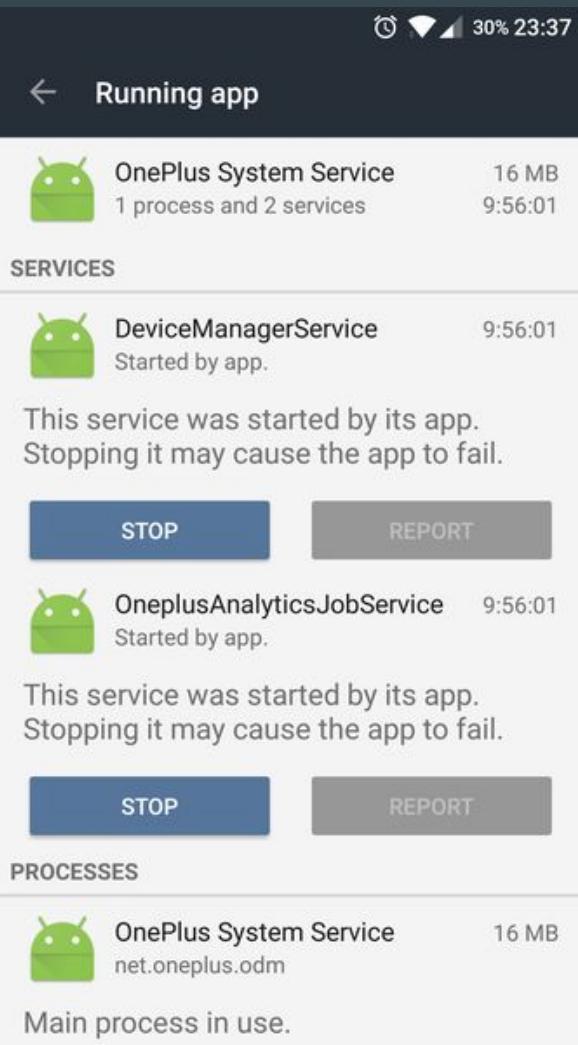
Follow

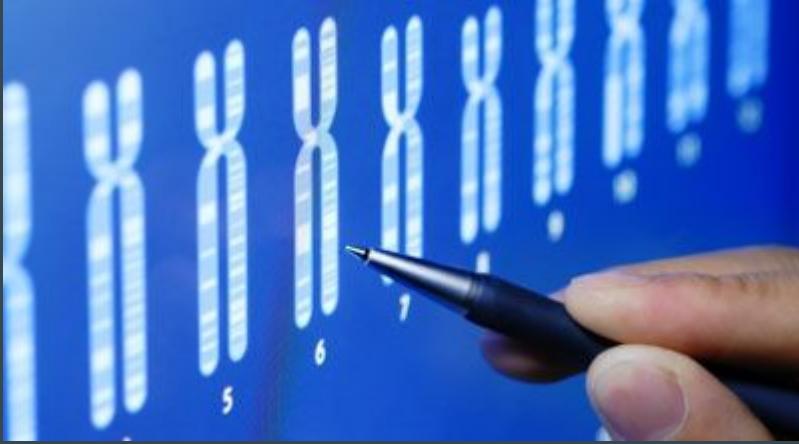
Alright. Please try doing a hard reset bit.ly/1TbY1RZ and see if there are improvements.

12:24 AM - Jan 14, 2017

Q 3 T 1 H







- Mutui
- Assicurazione sulla vita

The “fappening”

Furto di foto di celebrità del 2014



Il Fappening August, o per alcuni CelebGate, fu uno scandalo scoppiato negli Stati Uniti il 31 agosto 2014, quando furono rubate da iCloud e diffuse in rete alcune immagini private di star e personaggi famosi americani. [Wikipedia](#)

Data Inizio: 31 agosto 2014

Feedback

The SCOOP
BREAKING NEWS
Jennifer Lawrence Has Two Nipples and a Vagina As Confirmed by Millions of Lonely People

While many spent Labor Day with family or friends, millions of people with no lives whatsoever spent it searching for leaked photos of Jennifer Lawrence naked. "There's only so long I can photoshop her head onto another woman's body" said one man who cradled his tear stained blow-up doll. "I always knew she had a naked body" said one TMZ subscriber, "but knowing she doesn't want me to see it makes me feel like I have a better chance of getting with her." When one scientist trying to find a cure for cancer was asked about his thoughts on the issue, he responded with "Who the fuck cares?"

Dove sono questi dati?



Sedi dei data center ×

Secure | <https://www.google.com/about/datacenters/inside/locations/index.html>

Google Data center

Data center > Uno sguardo all'interno > Sedi

Sedi dei data center

Gestiamo e siamo proprietari di data center in tutto il mondo per garantire il funzionamento dei nostri prodotti 24 ore su 24, 7 giorni su 7. Scopri ulteriori informazioni sulle sedi dei nostri data center, sul coinvolgimento delle comunità locali e sulle [opportunità di lavoro](#) presso tali sedi.

Americhe

- Contea di Berkeley, Carolina del Sud
- Council Bluffs, Iowa
- Contea di Douglas, Georgia
- Contea di Jackson, Alabama
- Lenoir, Carolina del Nord
- Contea di Mayes, Oklahoma
- Contea di Montgomery, Tennessee
- Quilicura, Cile
- The Dalles, Oregon



Asia

- Contea di Changhua, Taiwan
- Singapore

Europa

- Dublino, Irlanda
- Eemshaven, Paesi Bassi
- Hamina, Finlandia
- Saint-Ghislain, Belgio

G+ Cerca su questo sito

E quindi?

IO NON HO NIENTE
DA NASCONDERE

Yes, you do have something to hide

<https://safeandsavvy.f-secure.com/2013/11/27/yes-you-do-have-something-to-hide/>

<https://attivissimo.blogspot.it/2013/11/datagate-il-mito-di-non-avere-niente-da.html>



SAFE & SAVVY

Search...



Tips & Tricks Security & Privacy Connected Life F-Secure Life More Topics ▾ Resources ▾

EN ▾



YES, YOU DO HAVE SOMETHING TO HIDE

Cyber Politics, Privacy, Security & Privacy

Share



Micke

November 27, 2013

You don't know what you have

You can't remember all your documents and electronic conversations. So how can you claim that there's nothing bad in them? Almost everybody will go "Oops, no I don't want to show that one" when digging through old archives. Also keep in mind that corporates and agencies may have old information about you that you haven't got yourself. Your copy might have been lost or deleted, but that doesn't clear the [agencies' records](#).



You don't know what could be bad for you

Our daily life is regulated by legislation that is so complex that no one can master it all. Not even lawyers can be experts on all the areas of our daily life. So how can you be sure that you never break the law? No, you can't. I bet most of us break some obscure paragraph almost daily.



You don't know how society will change

Look back at the fifties, sixties and seventies. The world was so different then, and our values were different too. The change has not stopped, quite the opposite. Our society's values regarding ethics, moral, politics, activism, religion, sexuality, the environment, entertainment, etc. etc. change faster than ever before. You can be pretty sure that you live according to today's norms. But you can never know what tomorrow's norm will be. Wait 30 years and the complete profile of your life might look quite bad.

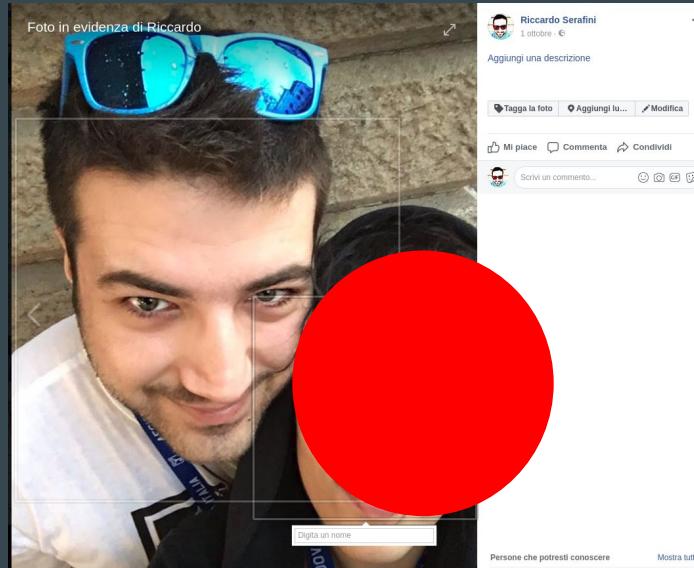
“Ma nel 1939 nessuno in Germania si preoccupava se il suo nome finiva nelle liste degli ebrei di una particolare sinagoga.”

<http://www.levysoft.it/archivio/2015/05/10/io-non-ho-nulla-nascondere-e-quindi-ben-vengano-i-sistemi-di-controllo-delle-informationi-dellnsa-3-punti-di-discussione/comment-page-1/>



It's not only your data, it's your friends' data too

Take a look at your stored data; documents, photos and communications. A how big part of that doesn't affect anybody else but you? No, that's probably a quite small part. So giving up privacy is not your own business, it affects all your friends too. Have you asked if they still want to share stuff with you if you adopt a "nothing to hide" -attitude?



Your digital environment can make you suspect

The authorities' signal intelligence works largely by creating a huge model about how people interact. Who communicates and meets with each other? There is a true risk that a full profile of your daily life can create a suspicious pattern with the environment. Imagine that one of your friends know someone who is being watched for terrorism, and another member of the same organization happens to visit the pub at the same time you're there. Both carry smartphones that feed location data into the surveillance network, and suddenly you're on a list of people who potentially could have met with the terrorist. You may face real trouble, for example [when traveling](#), if a couple of coincidents like this pile up. And you have no clue what it is about.

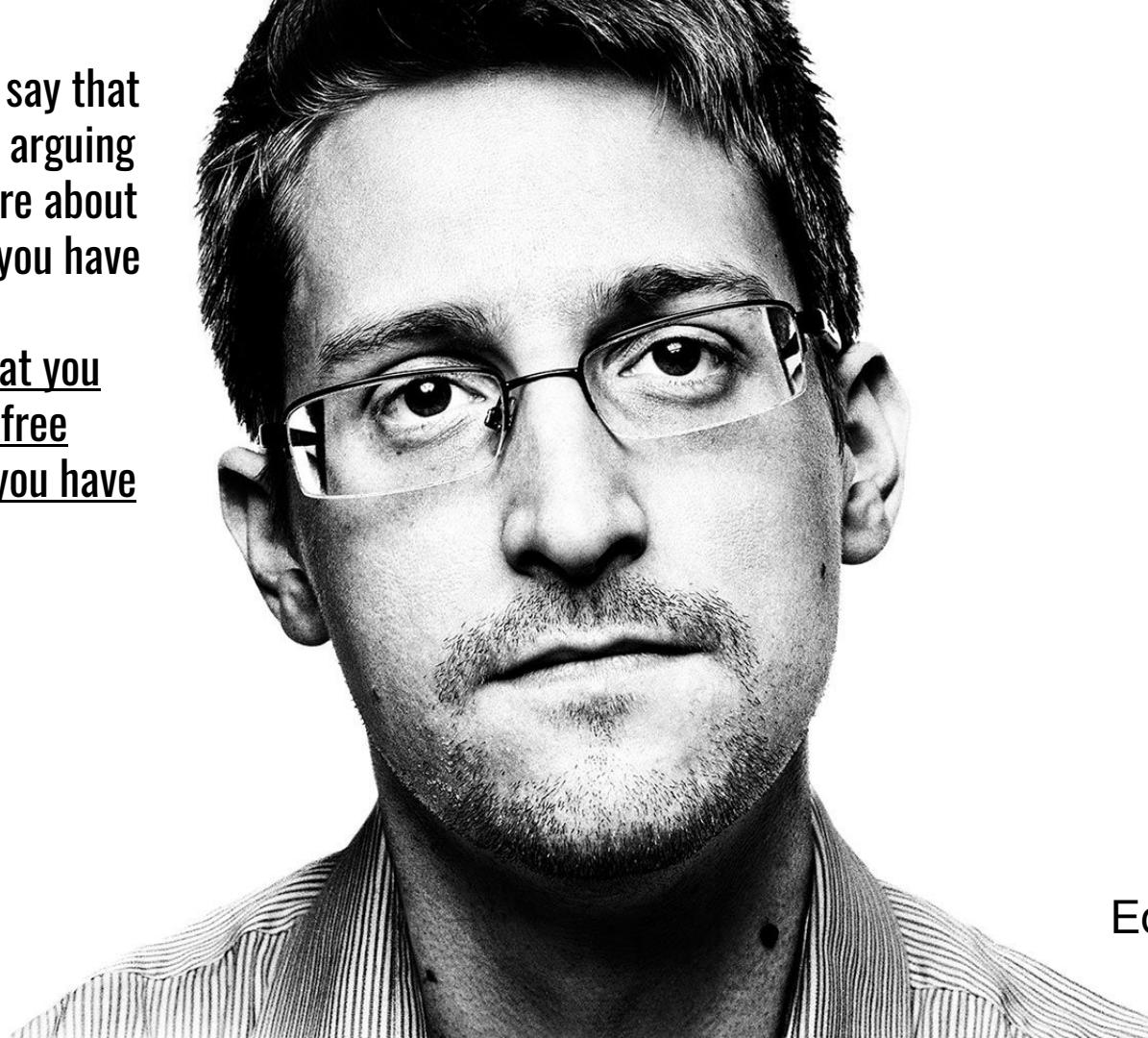


Privacy is important to you even if you don't value your own privacy

Can a democratic society work without privacy? Can an election be fair if one of the parties controls the signal intelligence and has a comprehensive picture of what other parties are doing? Can we fight corruption and criminality among the authorities if whistleblowers can't work anonymously? Can the press fulfill its task as watchdog if sources can't be protected? No, no and no. You may be ready to surrender your personal privacy, but by doing so you contribute to a destructive development that threat the fundament of our democratic society. Don't be part of that!



"So when people say that to me I say back, arguing that you don't care about privacy because you have nothing to hide
is like arguing that you don't care about free speech because you have nothing to say."



Edward Snowden

Grazie

(per tutto il pesce)