

**Amazon Tap - Alexa-Enabled Portable Bluetooth Speaker**

Amazon  
 ★★★★★ 5,815 customer reviews  
 | 1000+ answered questions  
 #1 Best Seller in Compact Radios & Stereos

**amazon tap**

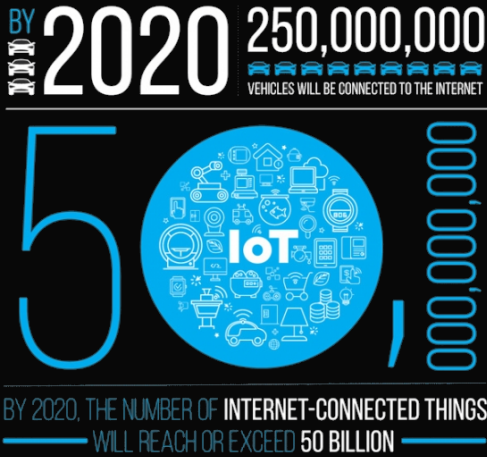
ALEXA-ENABLED PORTABLE BLUETOOTH SPEAKER

JUST TAP & ASK  
 NOW WITH HANDS-FREE MODE

Price: **\$129.99** & **FREE Shipping**. [Details](#)

**In Stock.**  
**Want it tomorrow, May 16?** Order within **11 hrs 44 mins** and choose **One-Day Shipping** at checkout. [Details](#)  
 Ships from and sold by Amazon Digital Services LLC. Gift-wrap available.

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**BY 2020** **250,000,000**  
 VEHICLES WILL BE CONNECTED TO THE INTERNET

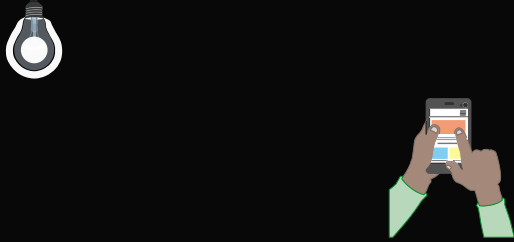
**50,000,000,000**

**IoT**

BY 2020, THE NUMBER OF INTERNET-CONNECTED THINGS WILL REACH OR EXCEED 50 BILLION

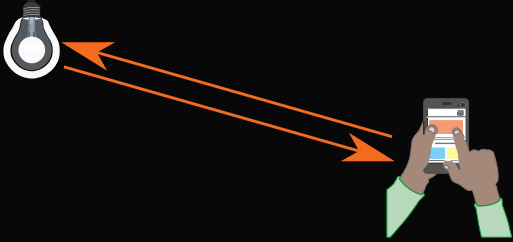
http://www.cnn.com/blog/infographic-what-things-iot

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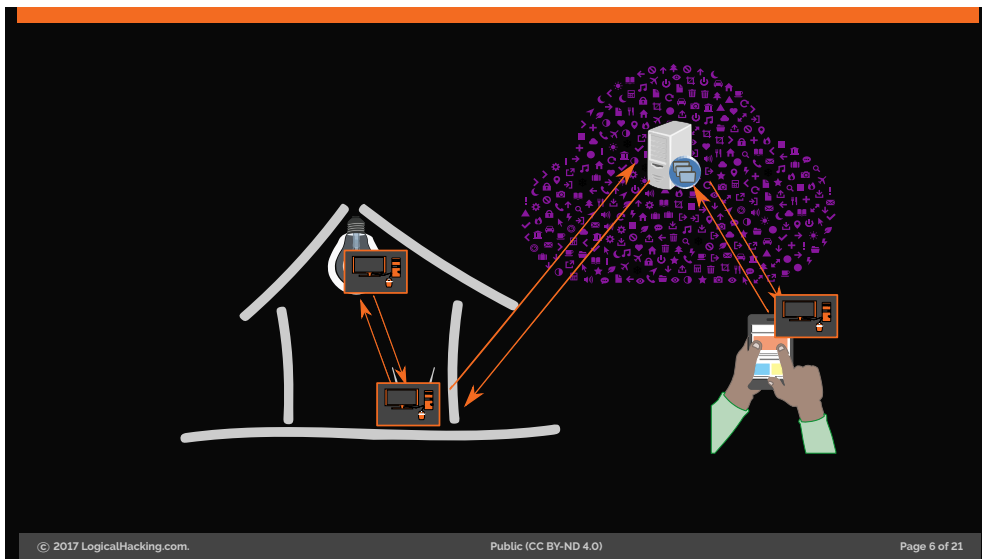
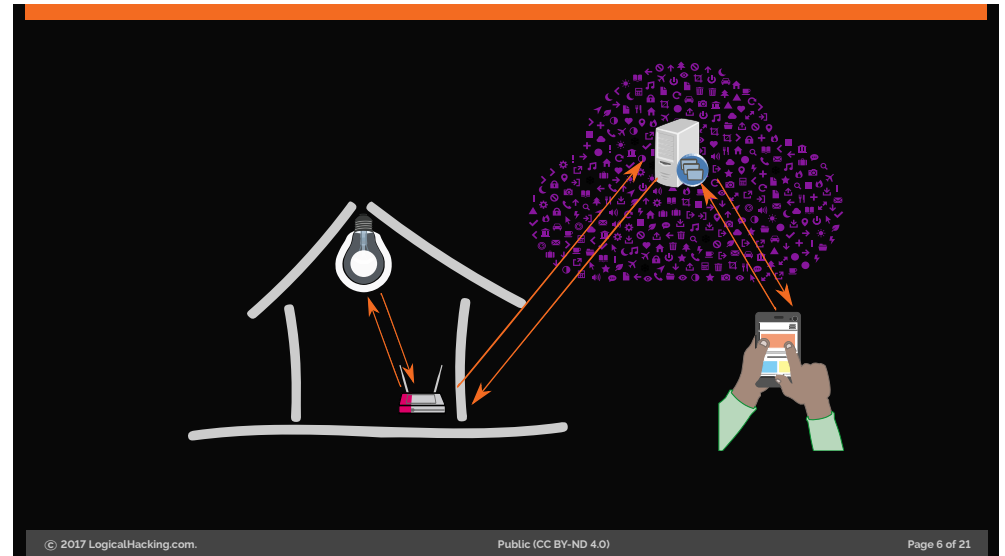
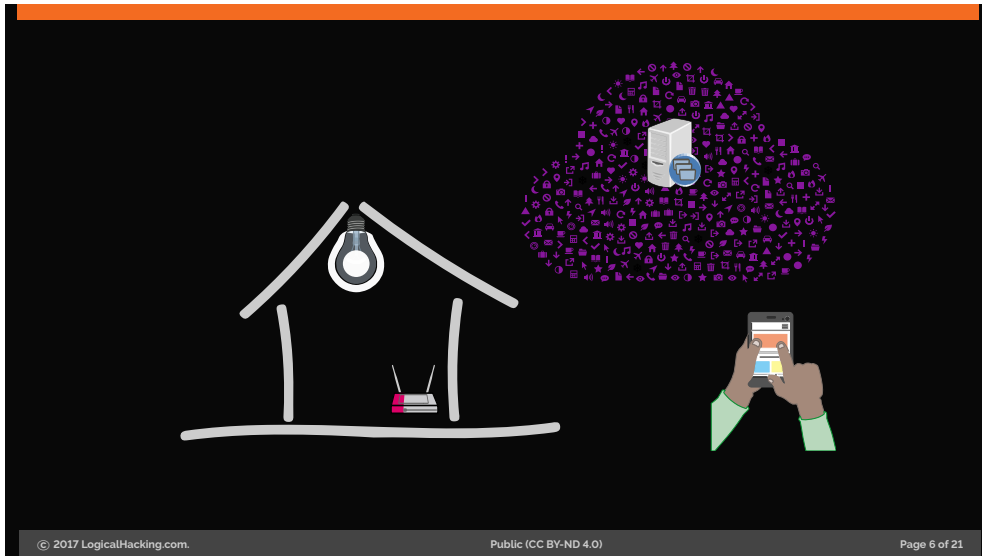
A white lightbulb icon is positioned in the upper left, and a hand holding a smartphone is in the lower right. No connection is shown between them.

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A white lightbulb icon is in the upper left and a hand holding a smartphone is in the lower right. Two orange arrows point from the smartphone to the lightbulb and back, indicating a bidirectional connection.

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**How an army of vulnerable gadgets took down the web today**  
REPORT BY A WOLFE

**Large DDoS attacks and other sites**  
Posted Oct 21, 2016 by Daniel E...

**Amazon UK - Amazon status back online following huge cyber attack on top sites**  
Posted Oct 21, 2016 by Hack Star | @hustan | Oct 21, 2016

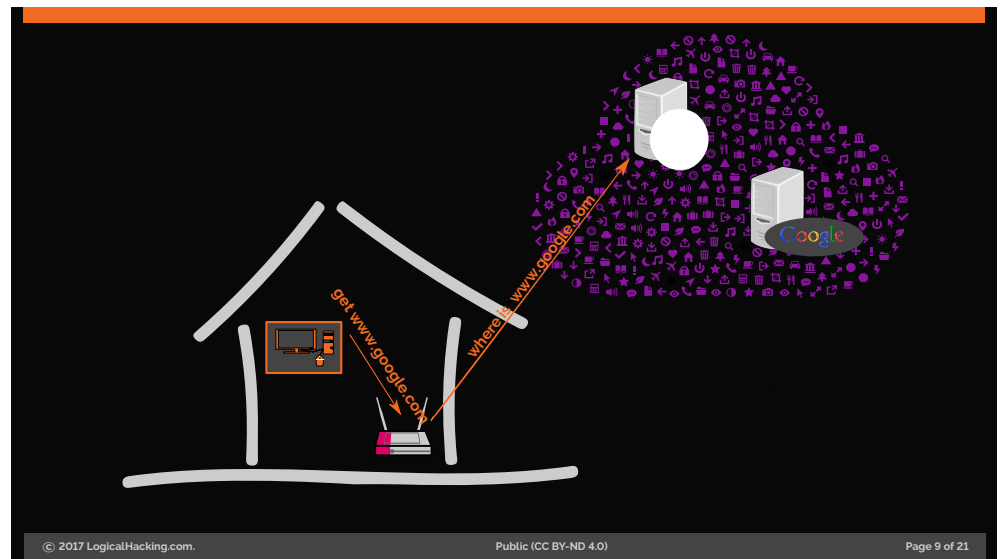
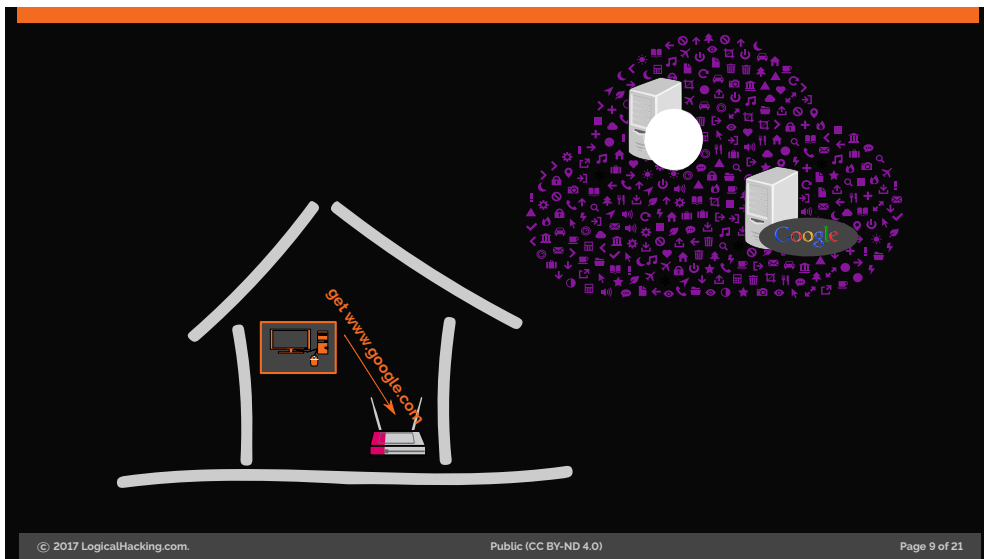
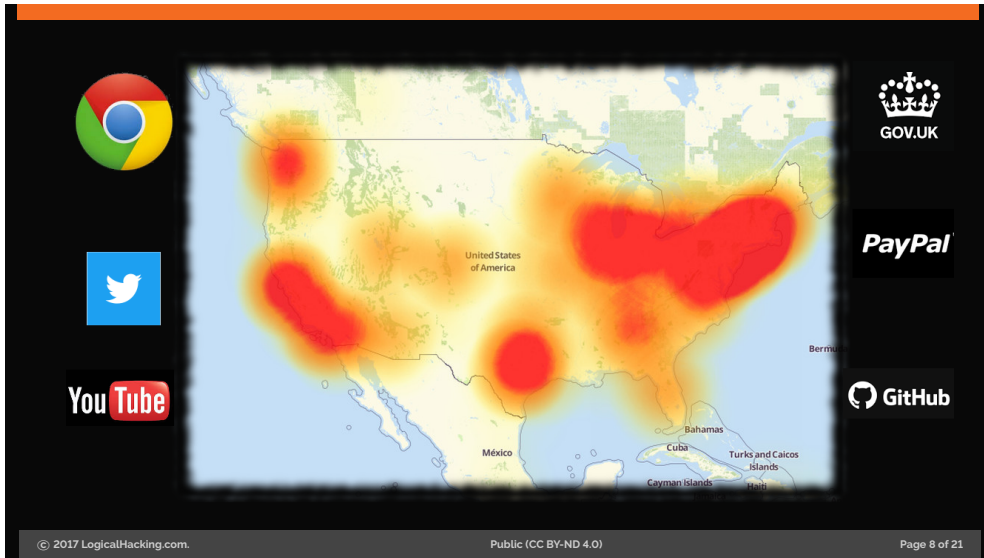
**Malware known as Mirai is taking down the web**  
Posted Oct 21, 2016 by Hack Star | @hustan | Oct 21, 2016

**Large DDoS attacks cause outages at Twitter, Spotify,**  
Posted Oct 21, 2016 by Kate Cooper @katecooper

**AMAZON has been taken down in MASSIVE cyber attack**  
 takes websites including Twitter, Spotify and Reddit offline as hackers launch attack on major web host.

**By MICHAEL MOORE**  
 18:18, Fri, Oct 21, 2016 | UPDATED: 18:18, Fri, Oct 21, 2016

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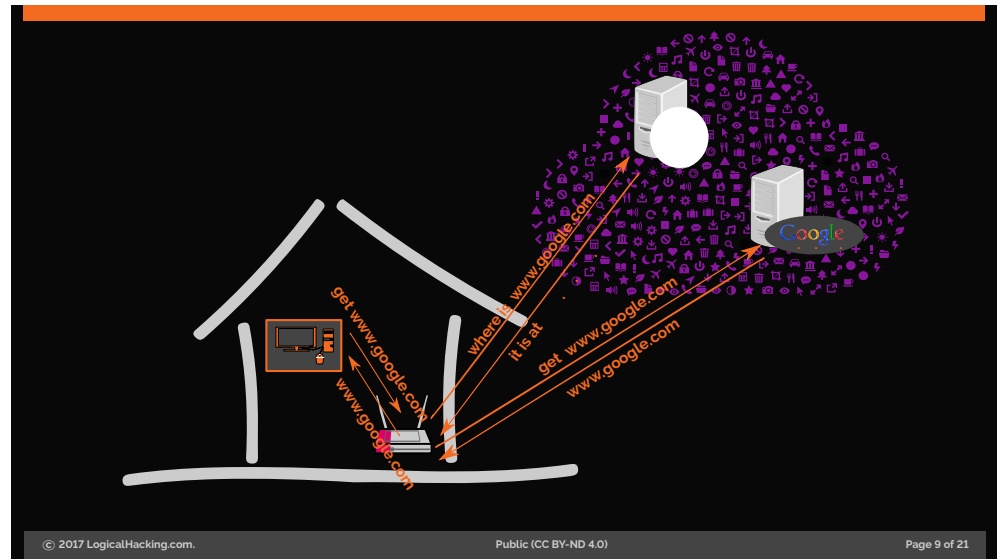
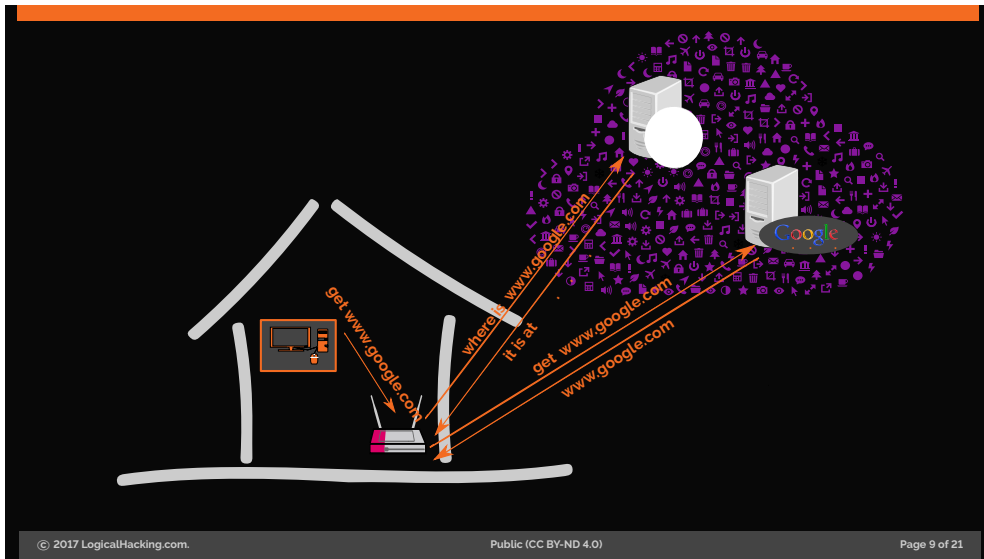
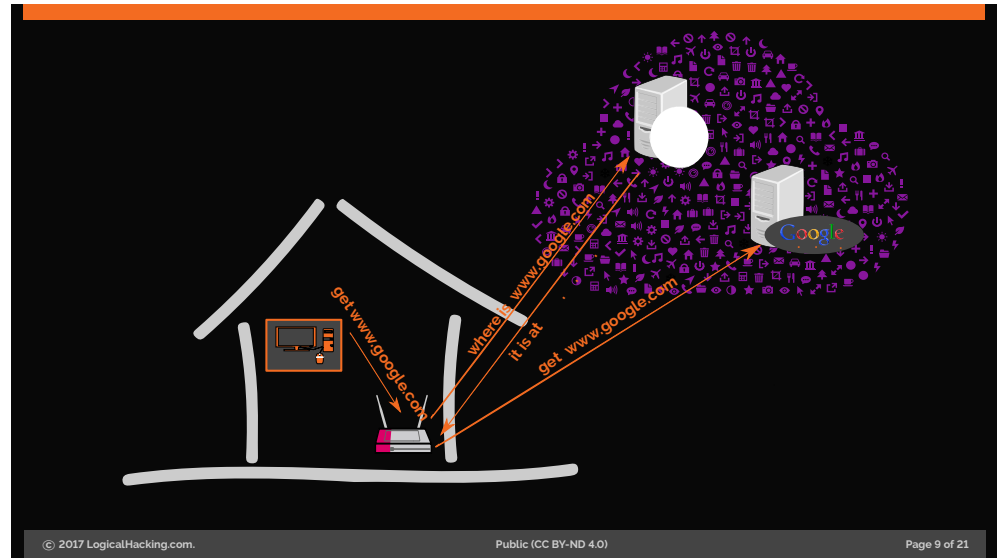
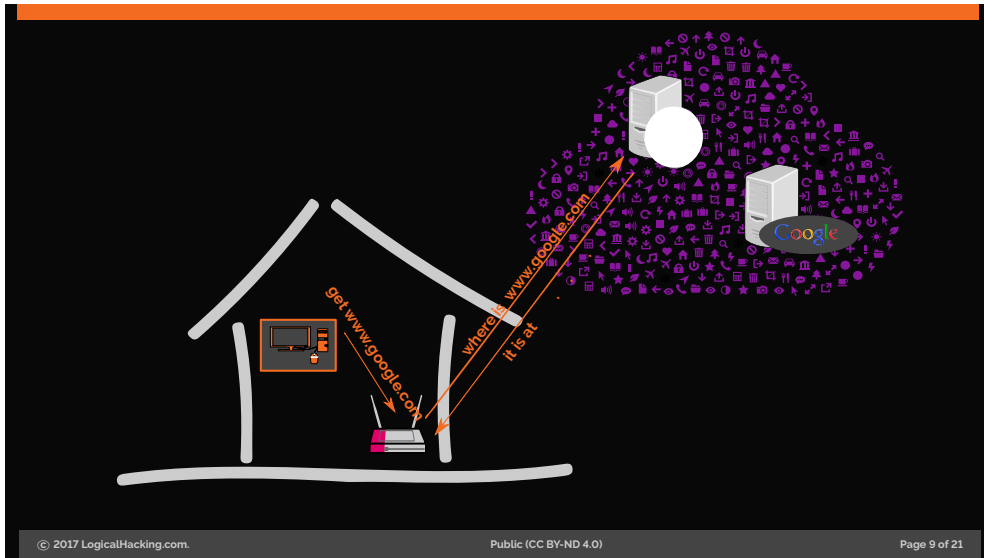
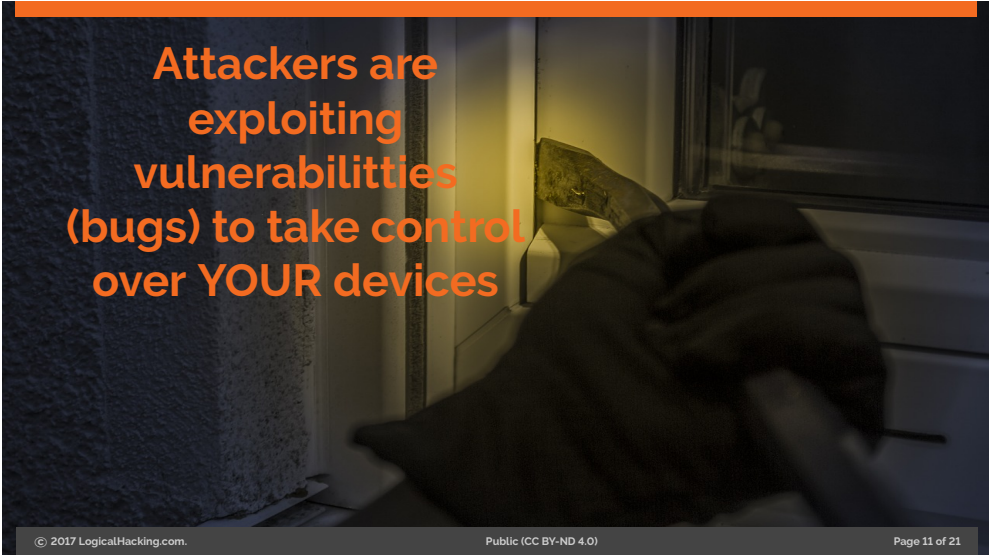




Image 1.2m devices  
constantly  
queering for  
google.com ...

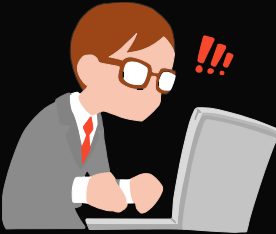


Attackers are  
exploiting  
vulnerabilities  
(bugs) to take control  
over YOUR devices



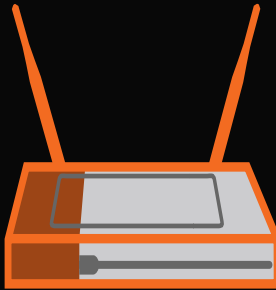
When was the last time you updated your

❖ computer



When was the last time you updated your

❖ computer  
❖ wifi router



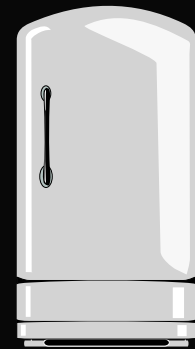
When was the last time you updated your

- ❖ computer
- ❖ wifi router
- ❖ car



When was the last time you updated your

- ❖ computer
- ❖ wifi router
- ❖ car
- ❖ fridge



When was the last time you updated your

- ❖ computer
- ❖ wifi router
- ❖ car
- ❖ fridge
- ❖ light bulb



Average life span

- ❖ computers



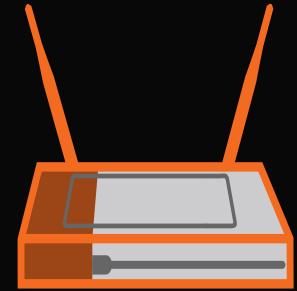
Average life span

- computers: 5 years



Average life span

- computers: 5 years
- wifi routers



Average life span

- computers: 5 years
- wifi routers: 7 years



Average life span

- computers: 5 years
- wifi routers: 7 years
- cars





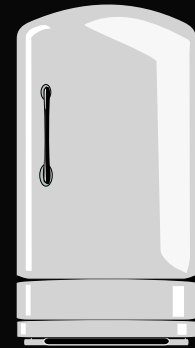
## Average life span

- ❖ computers: 5 years
- ❖ wifi routers: 7 years
- ❖ cars: 14 years



## Average life span

- ❖ computers: 5 years
- ❖ wifi routers: 7 years
- ❖ cars: 14 years
- ❖ fridges



## Average life span

- ❖ computers: 5 years
- ❖ wifi routers: 7 years
- ❖ cars: 14 years
- ❖ fridges: 17 years

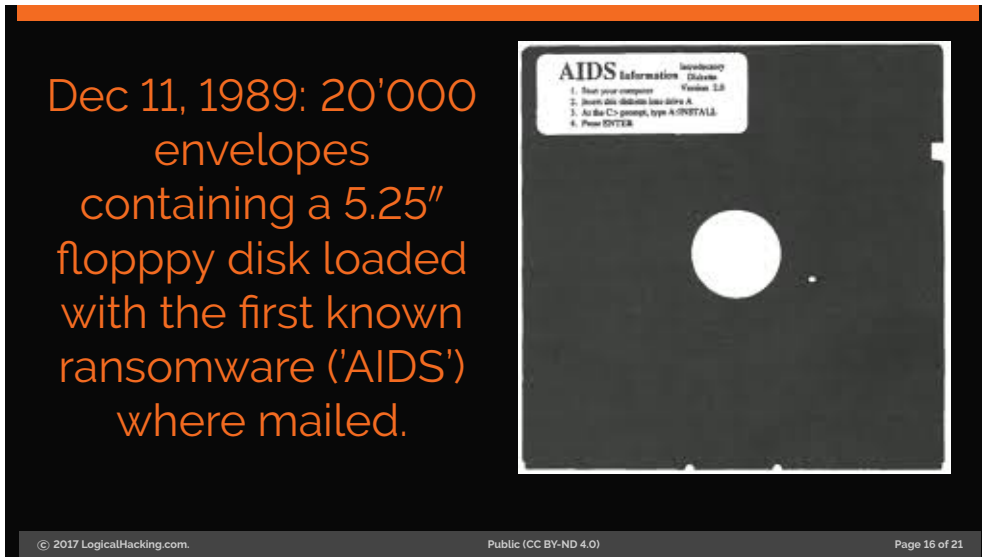


## Average life span

- ❖ computers: 5 years
- ❖ wifi routers: 7 years
- ❖ cars: 14 years
- ❖ fridges: 17 years
- ❖ LED











Blaming the victim  
does not work!



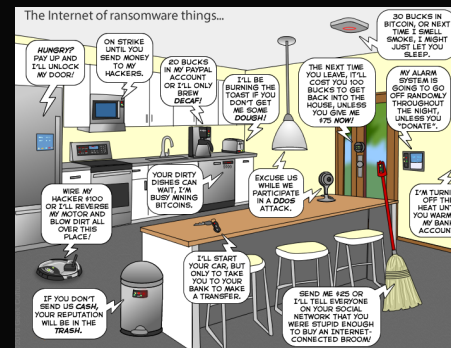
## Recommendations

### For users:

- ❖ update your devices regularly (for your personal devices: use automated updates, if available)
- ❖ back-up your data frequently
- ❖ choose vendors that provide security fixes for their products during the expected life-time

### For researchers and vendors:

- ❖ make it easier to write high quality software
- ❖ make it easier to upgrade systems



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Thank You!

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