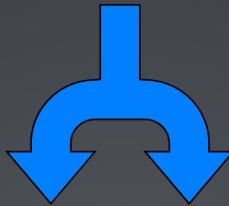


A WEB OF THINGS

GERGANA YOUNG





Gergana Gery



The Future

NEXT EXIT



Notifications

Shortcuts

Time

4:34 20 NOV
Monday

4:34

PM



geryb-bg (Gergana Young) · GitHub
[Open github.com/geryb-bg](https://github.com/geryb-bg)

Mute notification



Chrome

+ New Tab

VOICE
MICROPHONE Voice Search



Physical Web

Nearby objects are broadcasting webpages. A Google service will be used to improve the quality of these results.

No, thanks

OK, got it

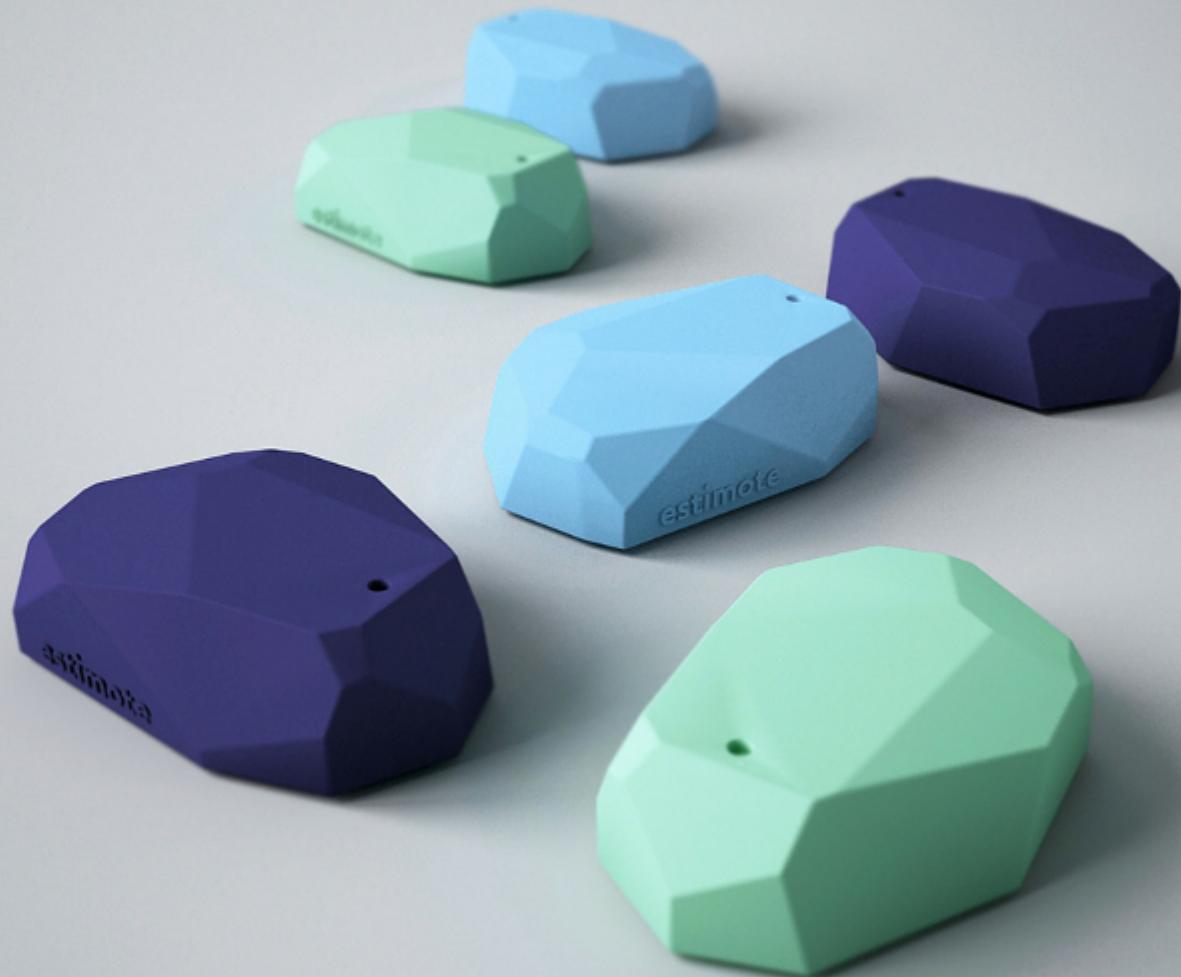


iBeacon

VS

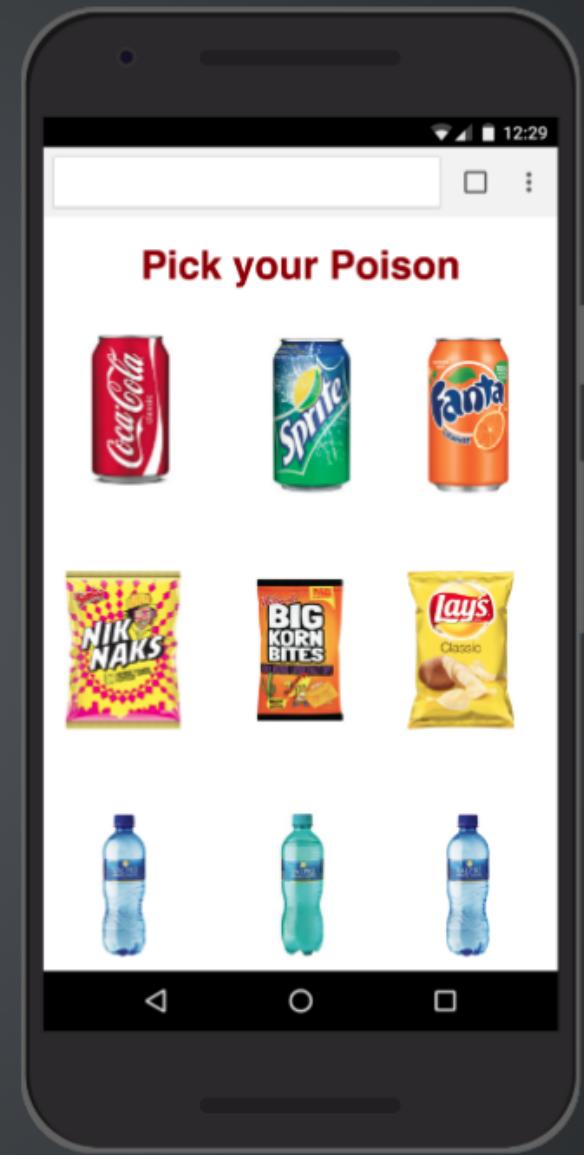
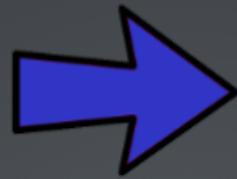


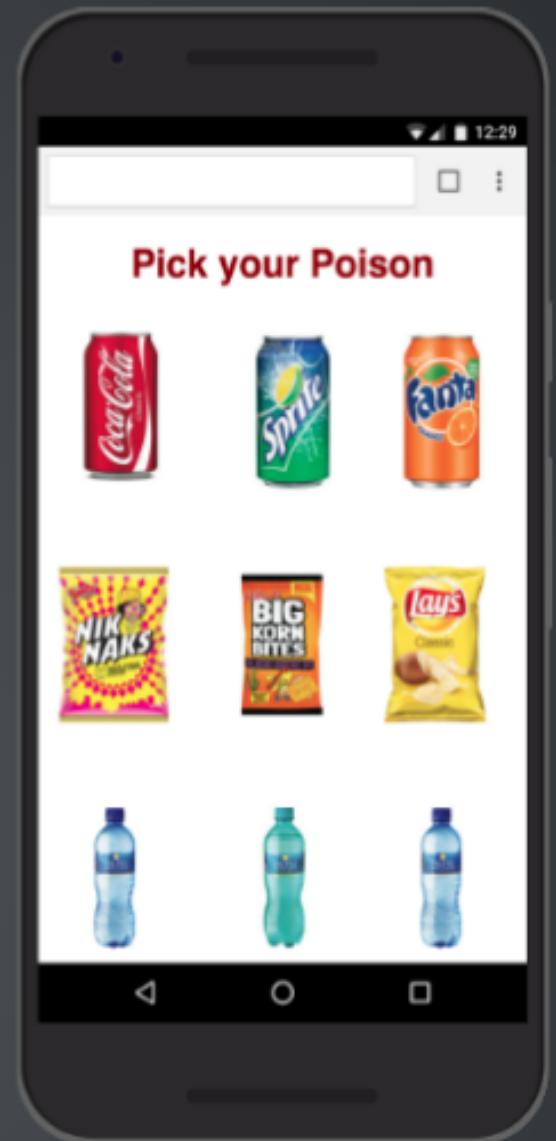
Eddystone



ALL THE SMART THINGS

- Dog tags
- Bus stops
- Posters
- AND SO MUCH MORE...





GATT AND BLE

- Services
- Characteristics

BITWISE MATHEMATICS IN JS

```
22 (base 10) = 10110 (base 2)
& 3 (base 10) = 00011 (base 2)
-----
00010 (base 2)

--  
= 2 (base 10)
```

DEMO: ANGULAR WEB BLUETOOTH



SECURITY

&

PRIVACY

PROXY SERVICE

- Does not share your information
- Spam filter
- Learns over time

WEB SECURITY

- HTTPS
- Obfuscated URLs
- Rotating tokens
- Require login

WEB BLUETOOTH SECURITY

- Can't just scan
- Connect once
- User interaction required

WHERE

&

HOW

BROADCASTING WITHOUT A BEACON

Android Beacon Toy

Linux PyBeacon

Windows npm module eddystone-beacon

Mac OS npm module eddystone-beacon



SUPPORT

Linux	Kernel 3.19+ and BlueZ 5.41+
Mac OS	OS X Yosemite or later
Windows	Windows 8.1 or later
Android	Android 6.0 or later
iOS	No official support yet*

THANK YOU
QUESTIONS?

GERGANA YOUNG

