

Change the World with IoT and the Peer Web

Matthew Podwysocki
@mattpodwysocki

<https://github.com/mattpodwysocki/webrebels-2016>

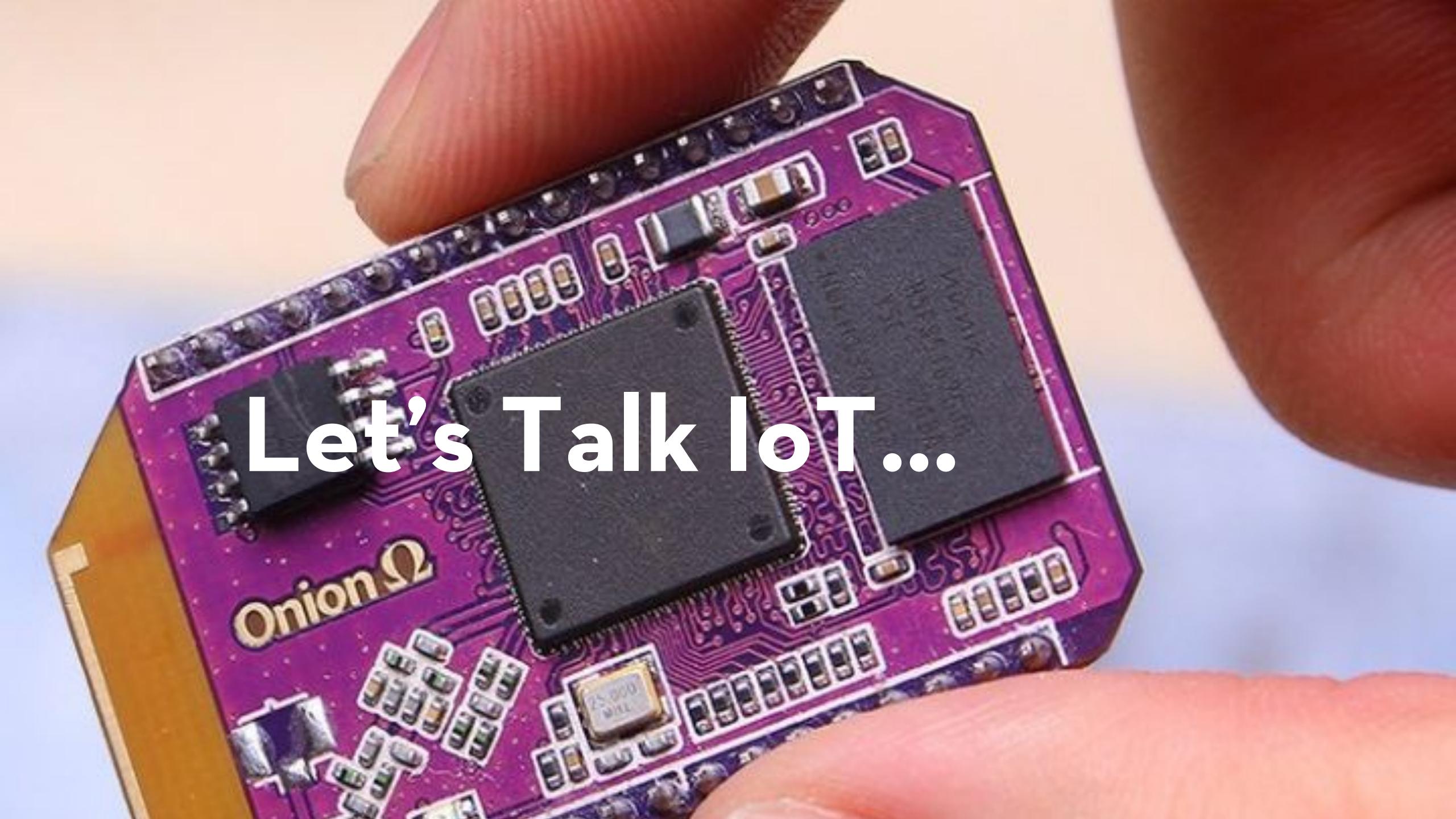


You stay Classy, Cloud City!

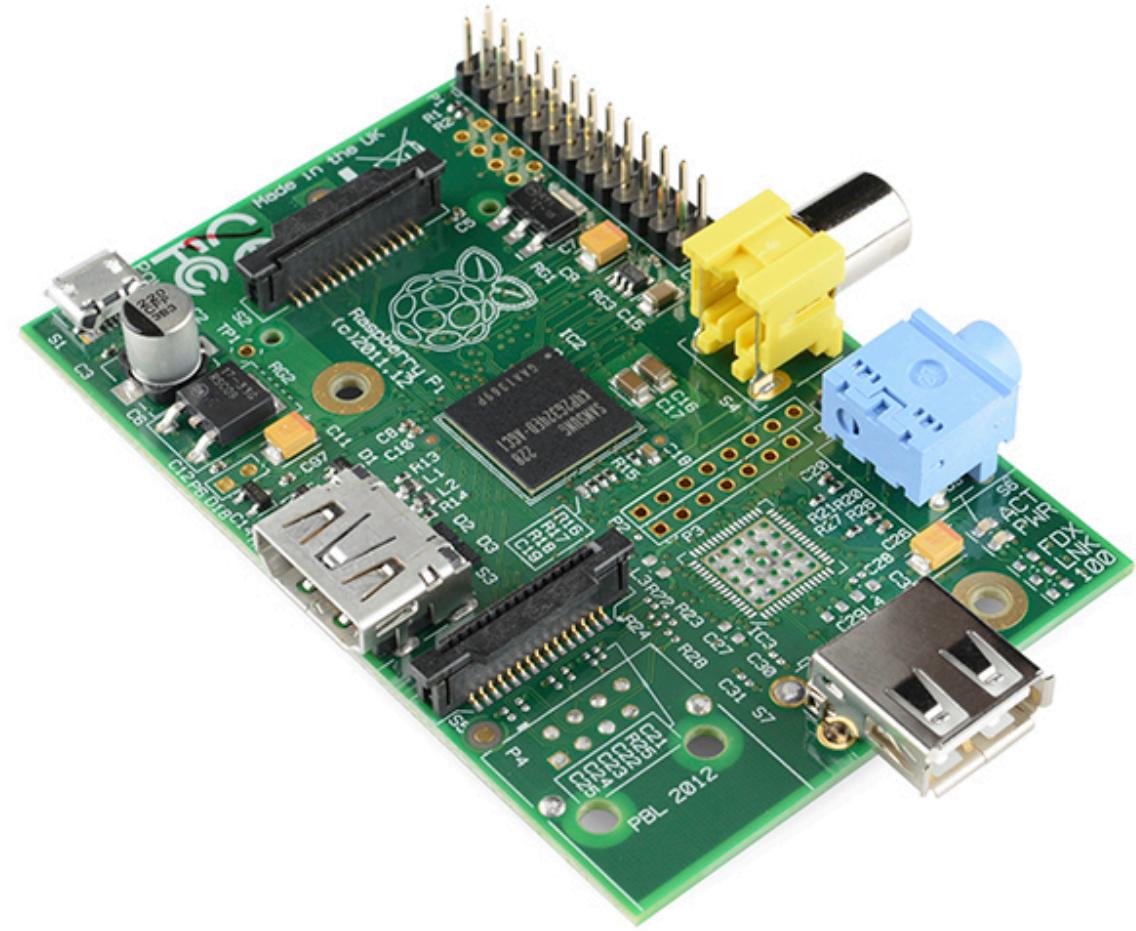


Open Sourcerer
@mattpodwysocki
github.com/mattpodwysocki
github.com/mpodwysocki

MICRÖSOFT

A close-up photograph of a purple Onion Omega IoT development board. The board features a central black microcontroller chip and several smaller components. The text "Onion Omega" is printed on the board. A hand is visible, holding the board from the top and bottom, providing a sense of scale. The background is a warm, out-of-focus indoor setting.

Let's Talk IoT...



The Things Are Everywhere...

Let's take on big challenges...





Re-invent manufacturing...



Change the face of farming...



Help in times of crisis...



PRIVACY
IS NOT
A CRIME

“Technical identity systems must only reveal information identifying a user with the user’s consent.”

Kim Cameron’s Law # 1

“The solution that discloses the least amount of identifying information and best limits its use is the most stable long-term solution.”

Kim Cameron's Law # 2

“Digital identity systems must be designed so the disclosure of identifying information is limited to parties having a necessary and justifiable place in a given identity relationship.”

Kim Cameron’s Law # 3

“A universal identity system must support both “omni-directional” identifiers for use by public entities and “unidirectional” identifiers for use by private entities, thus facilitating discovery while preventing unnecessary release of correlation handles.”

Kim Cameron’s Law # 4

“A universal identity system must channel and enable the inter-working of multiple identity technologies run by multiple identity providers.”

Kim Cameron’s Law # 5

“The universal identity metasystem must define the human user to be a component of the distributed system integrated through unambiguous human-machine communication mechanisms offering protection against identity attacks.”

Kim Cameron’s Law # 6

“The unifying identity metasystem must guarantee its users a simple, consistent experience while enabling separation of contexts through multiple operators and technologies.”

Kim Cameron’s Law # 7

**Isn't this privacy stuff
a bit of nonsense?**



@ThaliProject

<http://thaliproject.org>

<http://github.com/thaliproject>



Enable Local Discovery...



Secure Synchronization...



But the most important “thing” is...



How do we build it?

Always Bet on **JS**



Your device as a server...

JXcore

We want Node to run on EVERY device...

Node.js on ChakraCore

This project enables Node.js to optionally use the ChakraCore JavaScript engine. This project is still **work in progress** and not an officially supported Node.js branch. Please refer to the original [PR](#).

How it works

To enable building and running Node.js with the ChakraCore JavaScript engine, a V8 API shim (ChakraShim) is created on top of the ChakraCore runtime hosting API ([JSRT](#)). ChakraShim implements the most essential V8 APIs so that the underlying JavaScript engine change is transparent to Node.js and other native addon modules written for V8.

A rebuild node.exe and native addon modules with ChakraCore is required for this to work.

Issues

Please report all issues related to Node-ChakraCore on this separate [issue page](#).

Prebuilt Node binaries

You can download and install prebuilt Node-ChakraCore from [here](#).

WiFi Shoplist

By Oguz Bastemur

Open iTunes to buy and download apps.



[View in iTunes](#)

+ This app is designed for both iPhone and iPad

Free

Category: Productivity

Released: Jul 31, 2015

Version: 0.0.2

Size: 18.9 MB

Language: English

Seller: Oguz Bastemur

[View More by This Developer](#)

Description

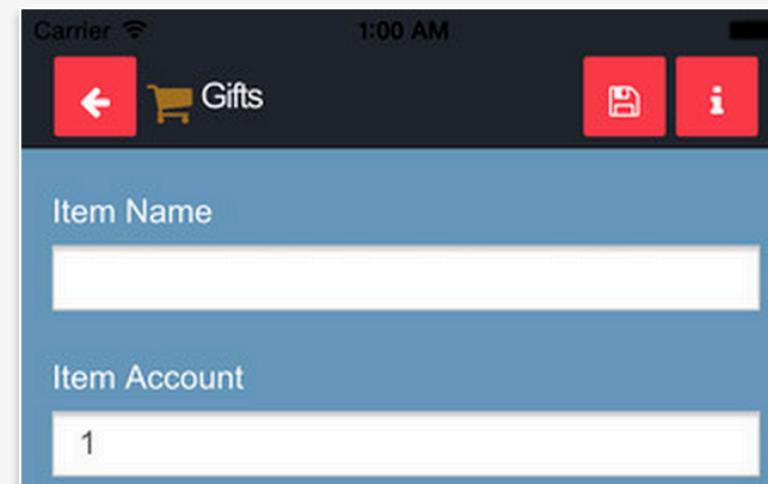
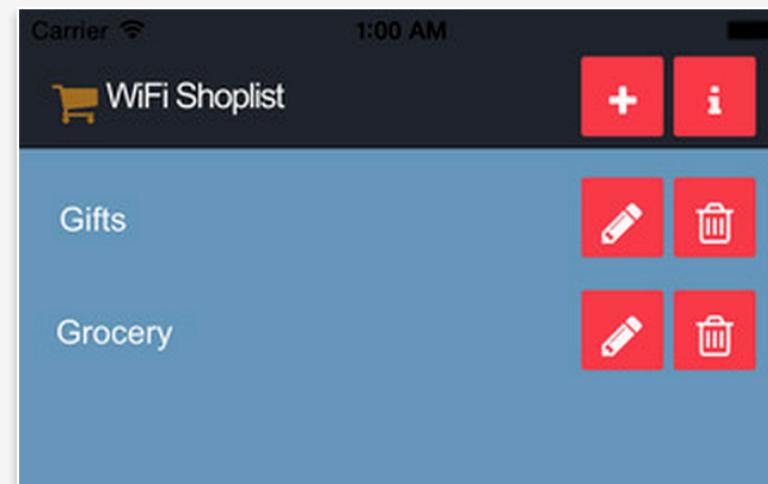
This application makes your shopping list available over WiFi. So, others can contribute to your shopping list from the devices with browser support.

[WiFi Shoplist Support ▾](#)

[...More](#)

Screenshots

[iPhone](#) | [iPad](#)



<https://itunes.apple.com/us/app/wifi-shoplist/id1022813783>



WiFi Shoplist

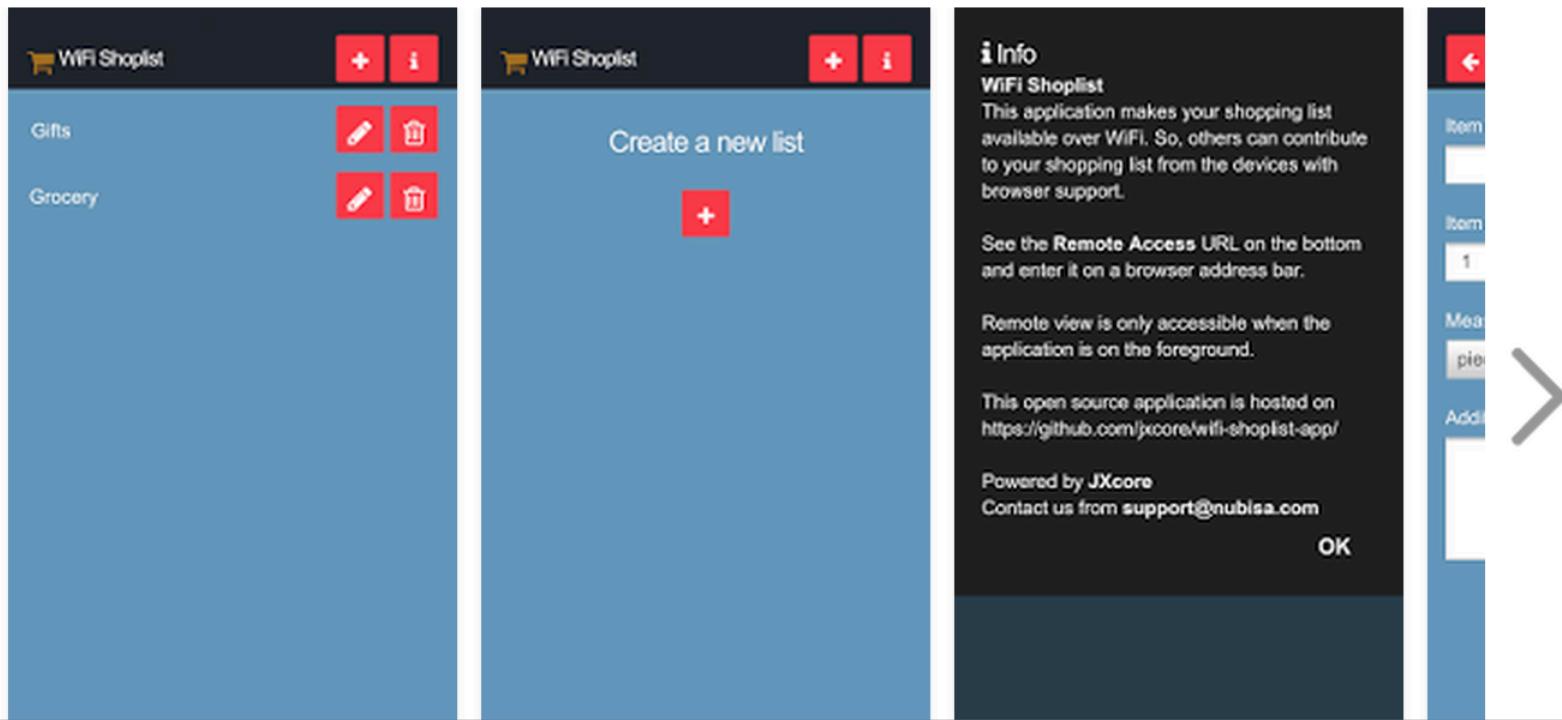
Oguz Bastemur Productivity

Everyone

This app is compatible with all of your devices.

Add to Wishlist

Install



<http://play.google.com/store/apps/details?id=com.nubisa.WiFiShoplist>



APACHE

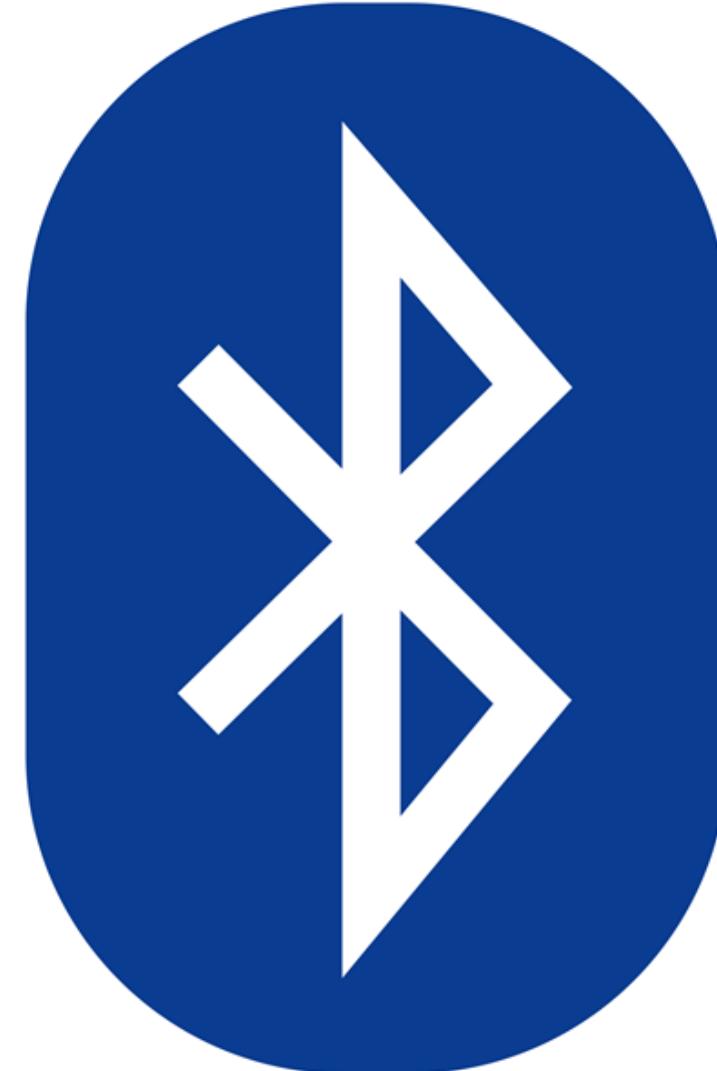
CORDOVA™

We can easily deploy it...



pouchdb

Keep Data in Sync...



Enabling Communication...

**AUTHORIZED
PERSONNEL ONLY**

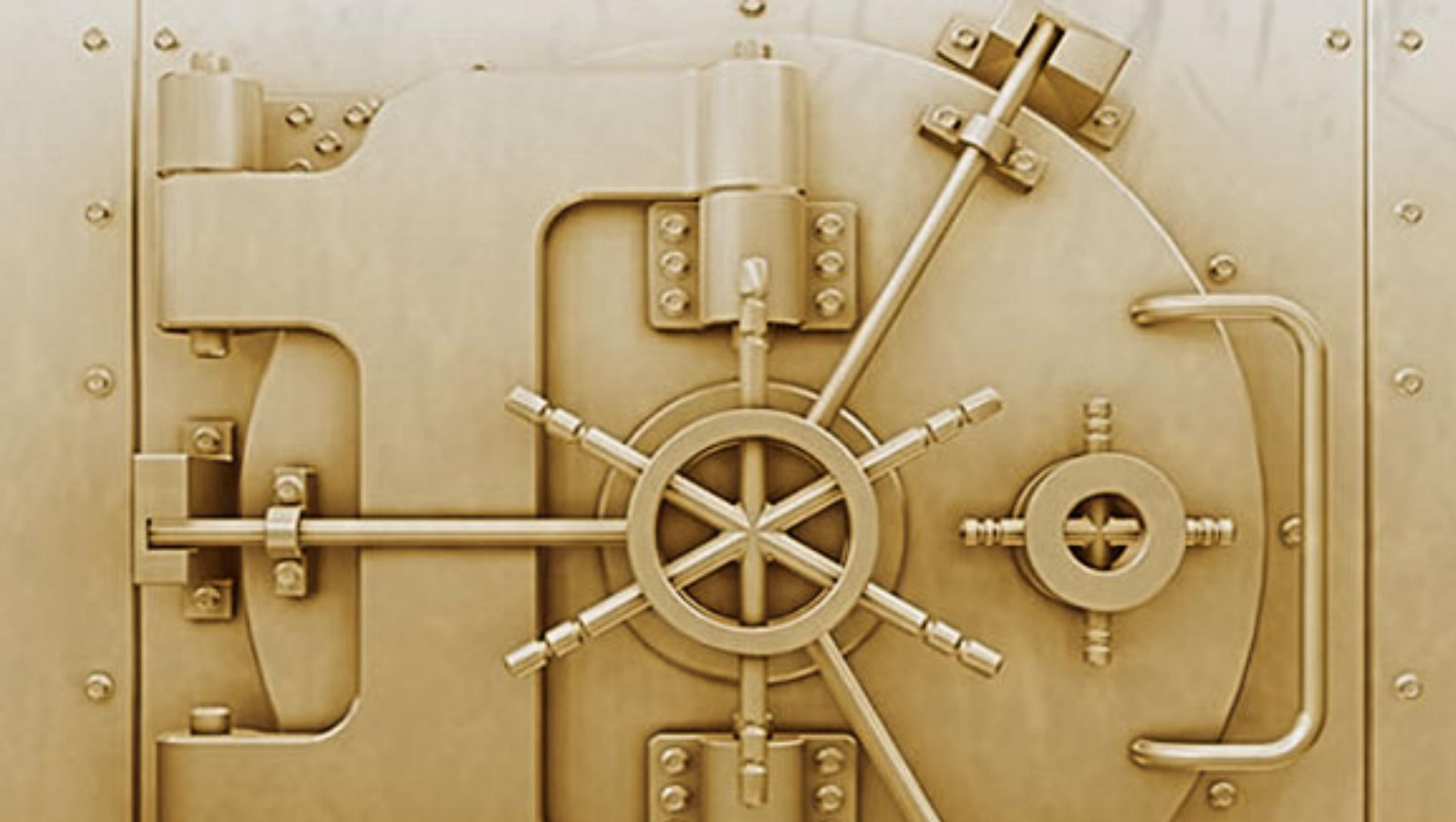
Security? TLS + Public Keys...

How do we exchange identities without making our users hate us?



<http://www.goland.org/coinflippingforthali/>







Live or Die by CI



Project Stanton
@Project_Stanton

Rockwell
Automation

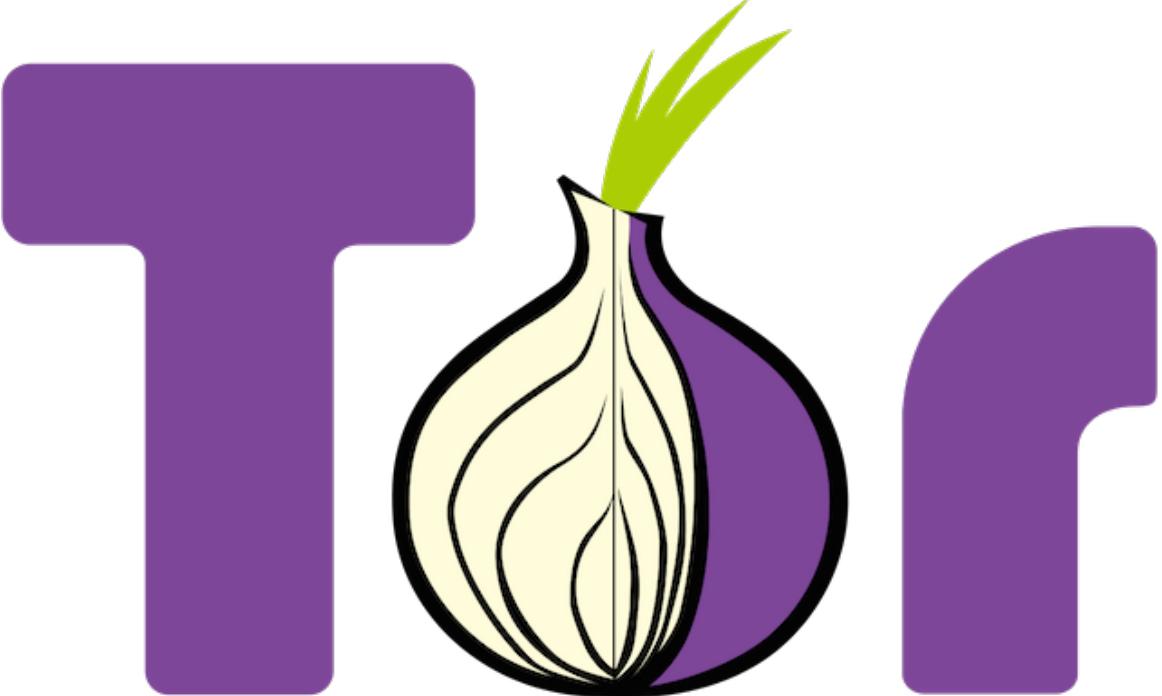
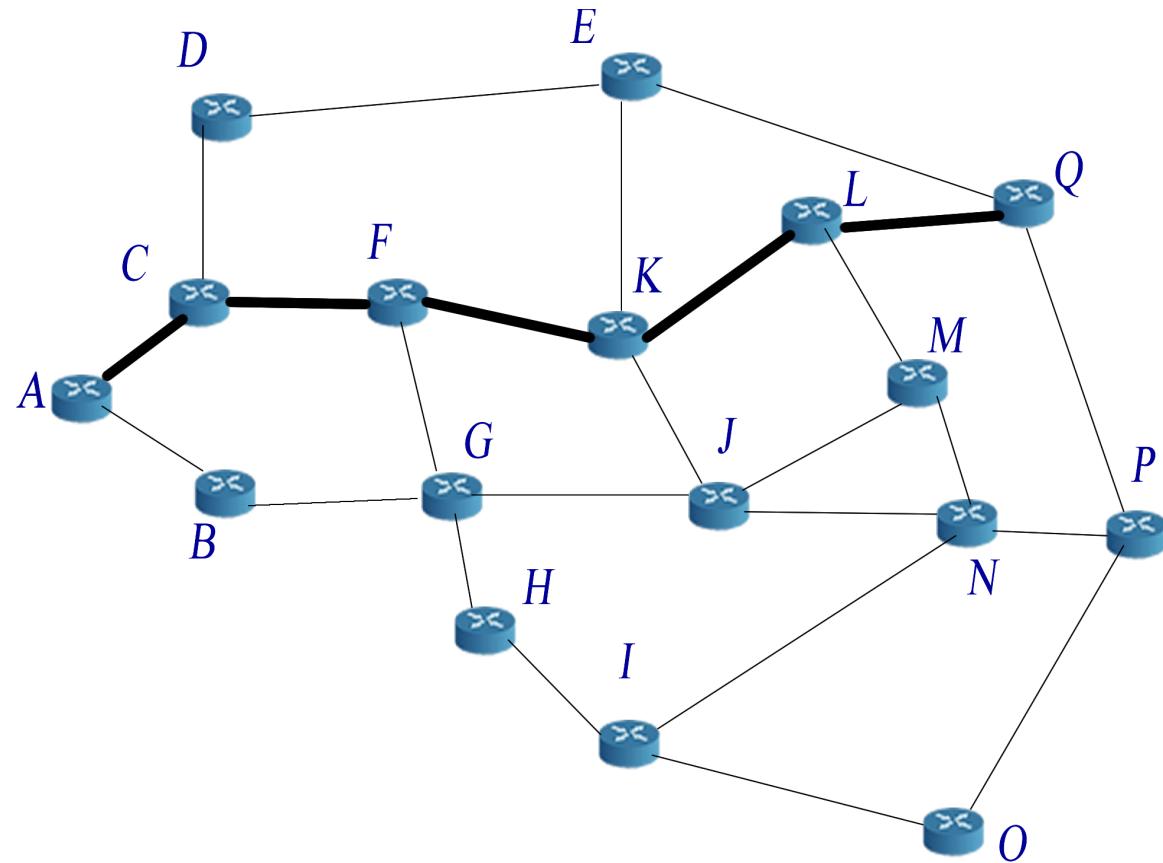
SOCIAL NETWORK



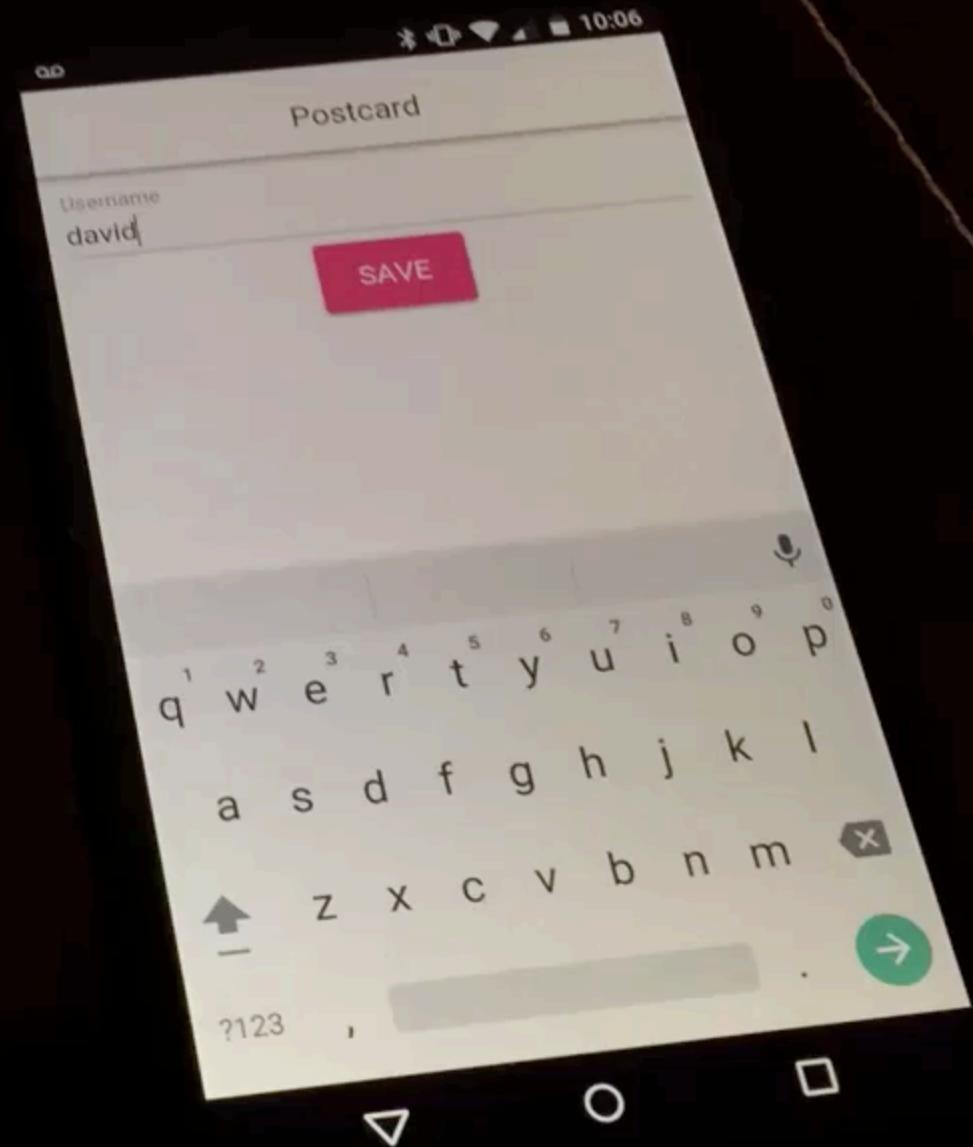
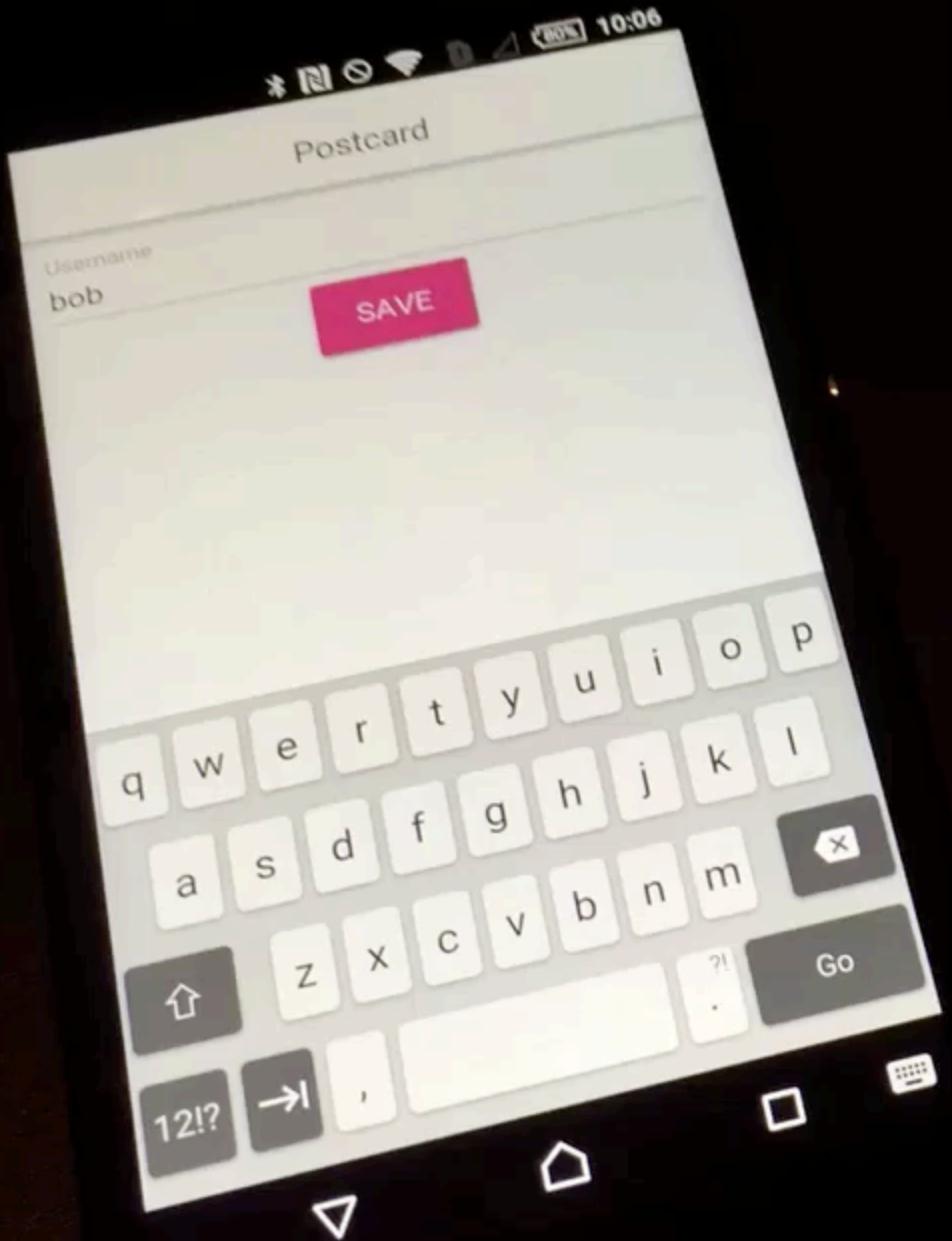
**What can I
build?**



Why not WebRTC?



Oh the places we'll go...





Via the Washington Post: wapo.st/1OjJ02P

#MakeThePeerWebGreatAgain