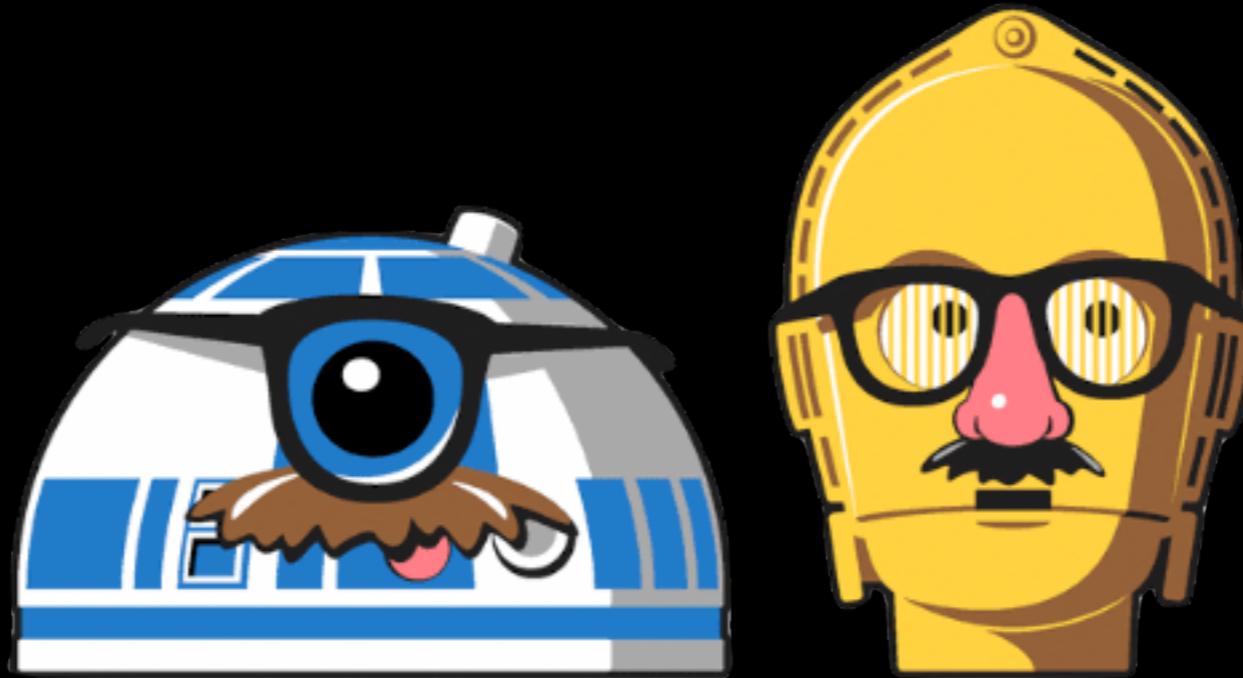


THESE WERE THE DROIDS YOU WERE LOOKING FOR

A journey not so far far away into a the heart of a mind controlled Pi2D2 robot



Peter Poliwoda

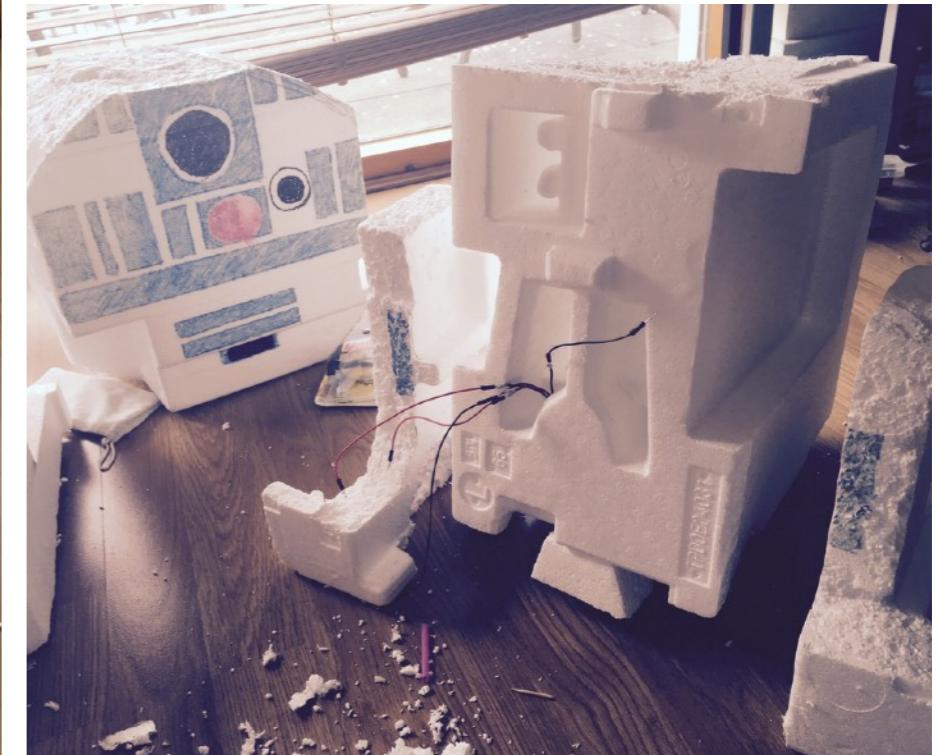
Senior Full Stack Engineer

IBM Ireland

INTRODUCING PI2D2



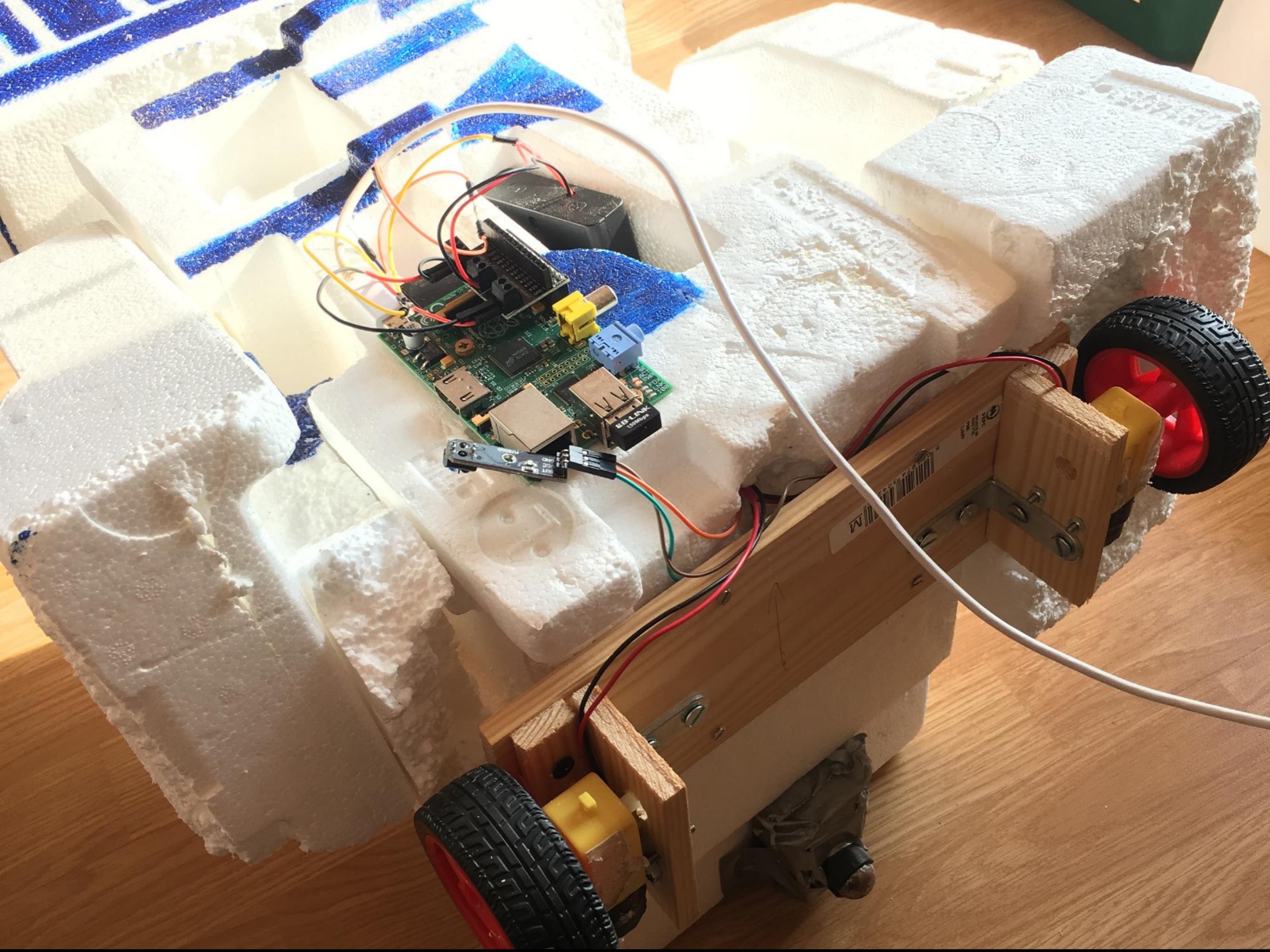
- He moves
 - Powered by ~~Firebase~~ websockets
 - Can be controlled by a web remote (phone / laptop)
-
- Runs Scratch on board
 - Used for teaching kids coding



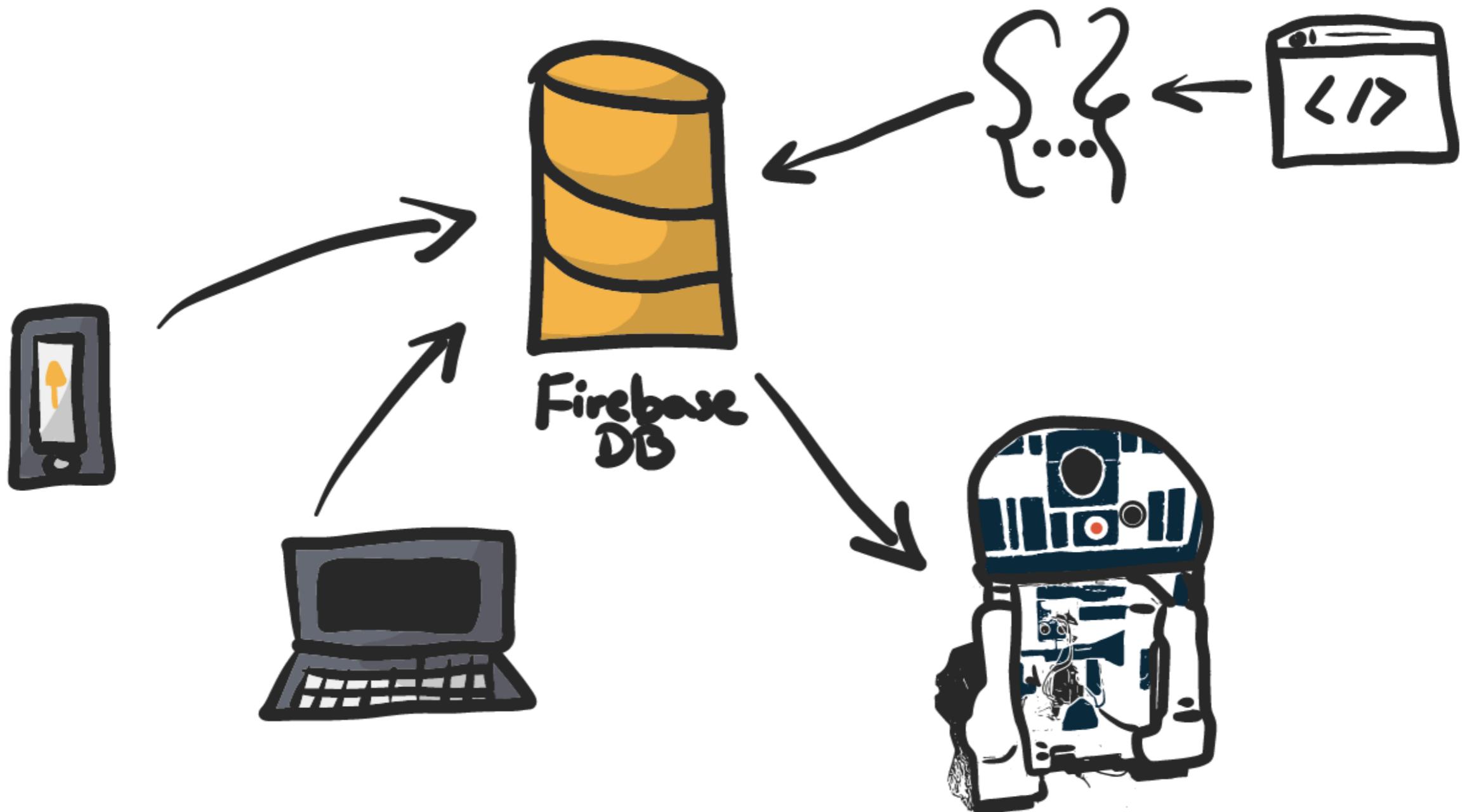
Rebuilt at least 4 times

REVENGE OF THE FIFTH

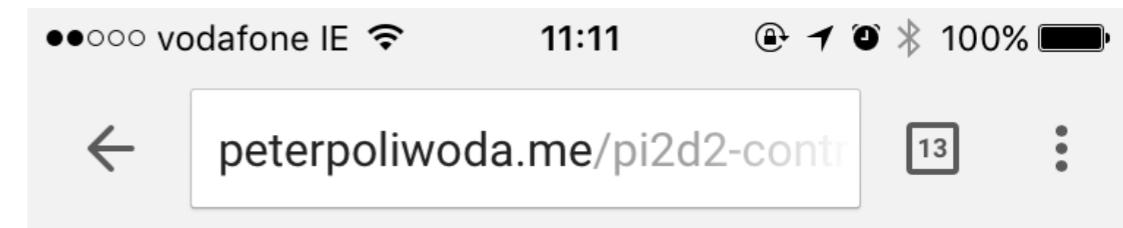
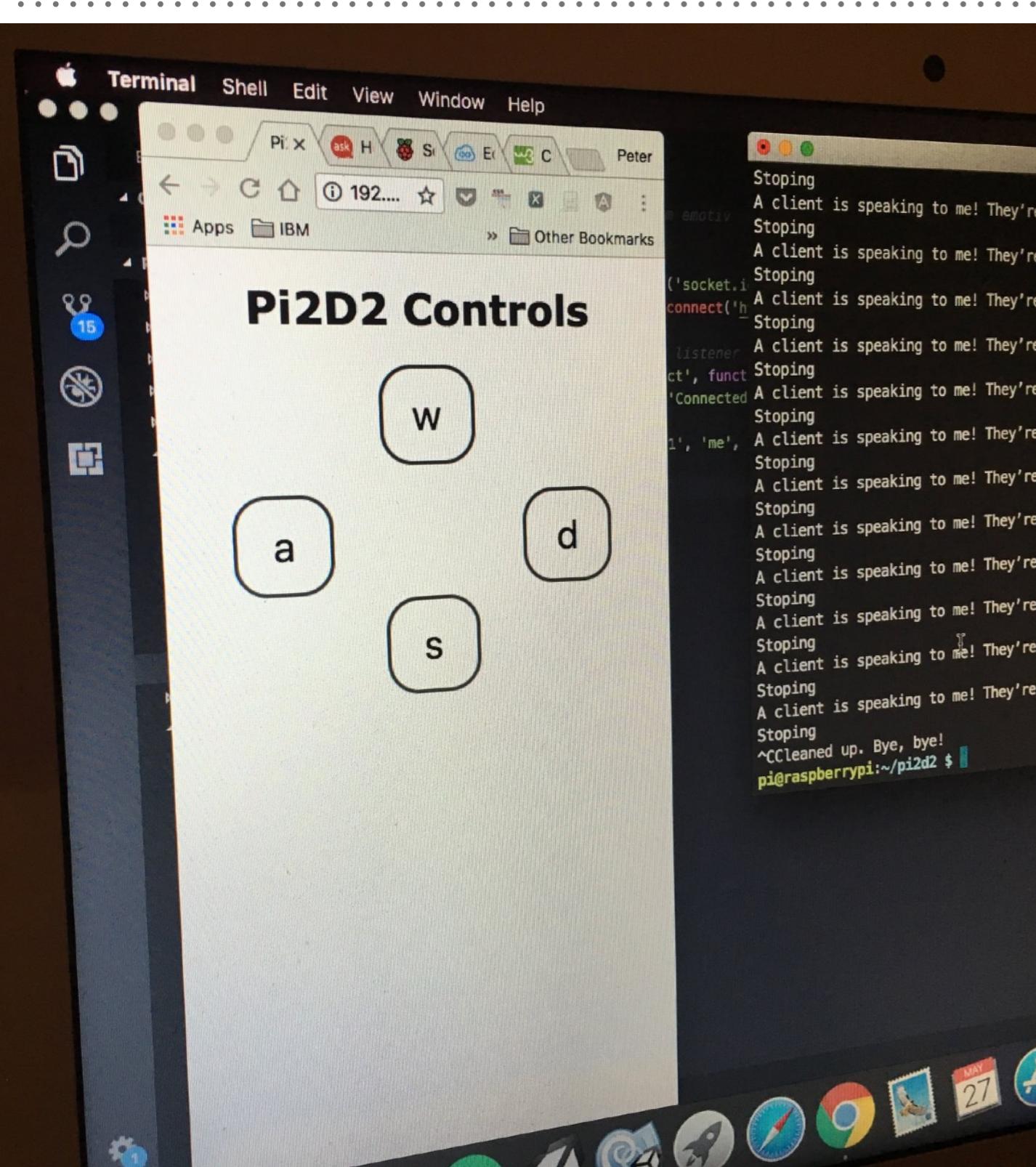




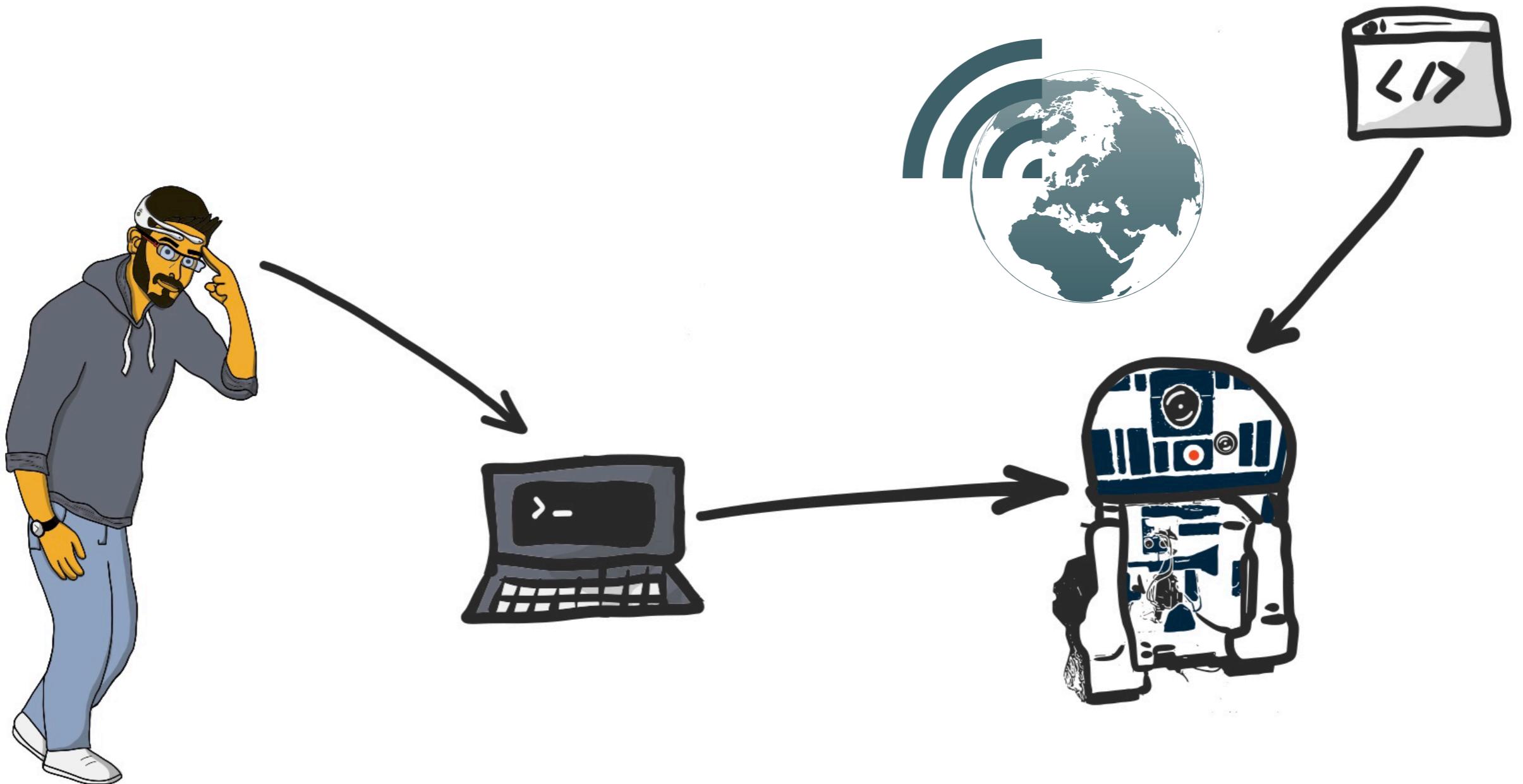
WHY FIREBASE?



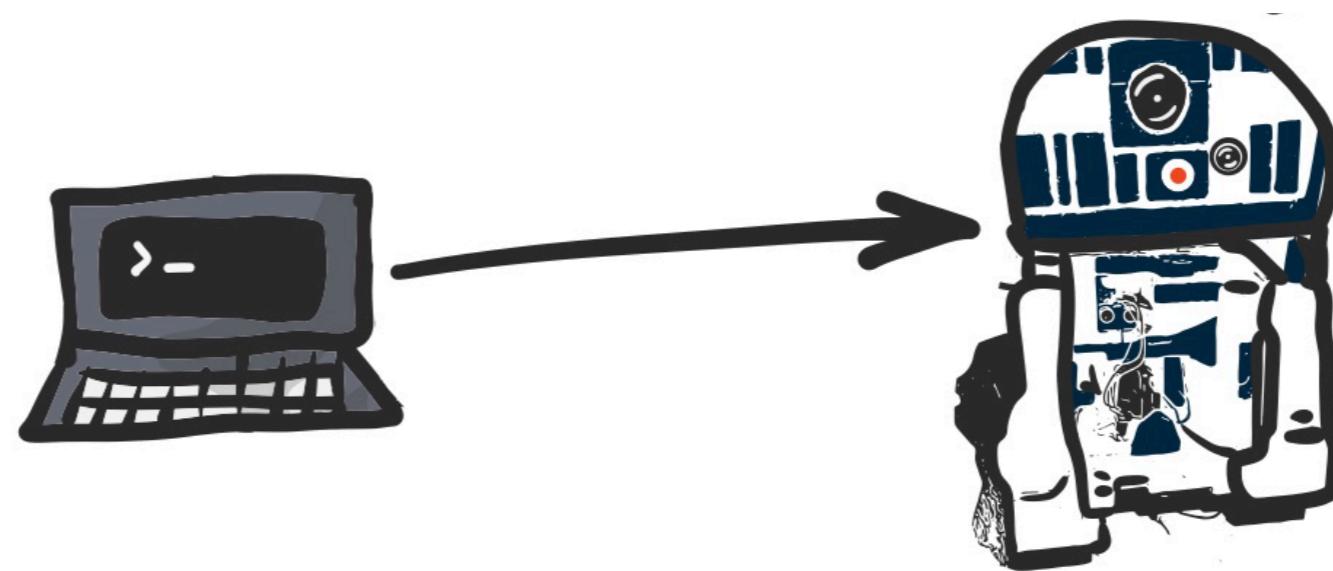
REMOTE CONTROL



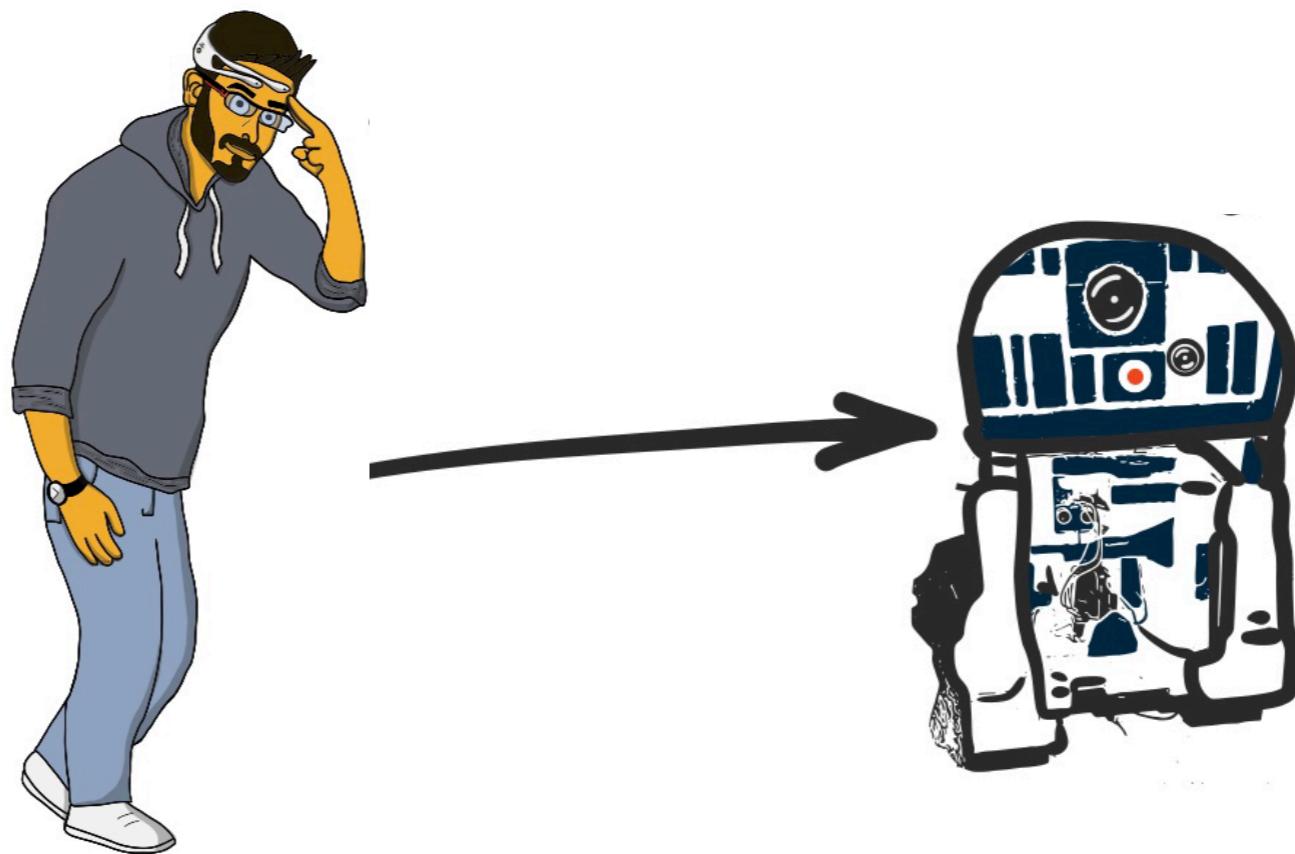
WHY NOT FIREBASE?



CURRENT STATE OF THE ART



TARGET



A cartoon illustration of the head of Yoda, the Jedi master from Star Wars. The image is overlaid with several lines and arrows indicating data flow and connectivity. A thick grey line enters from the top left, labeled "5 Channels". From the top center, a grey line descends to a white line that splits into two paths: one going to the right ear and another going to the mouth area. The label "Facial movement tracking" is positioned near the eye area. Another grey line enters from the left side, labeled "Accelerometer". From the bottom left, a grey line goes up to the mouth area. The label "Bluetooth" is on the right side. From the bottom right, a grey line goes up to the mouth area. The label "Mental commands" is at the top right. A grey line enters from the top right, labeled "Consumer targeting".

5 Channels

Facial movement tracking

Accelerometer

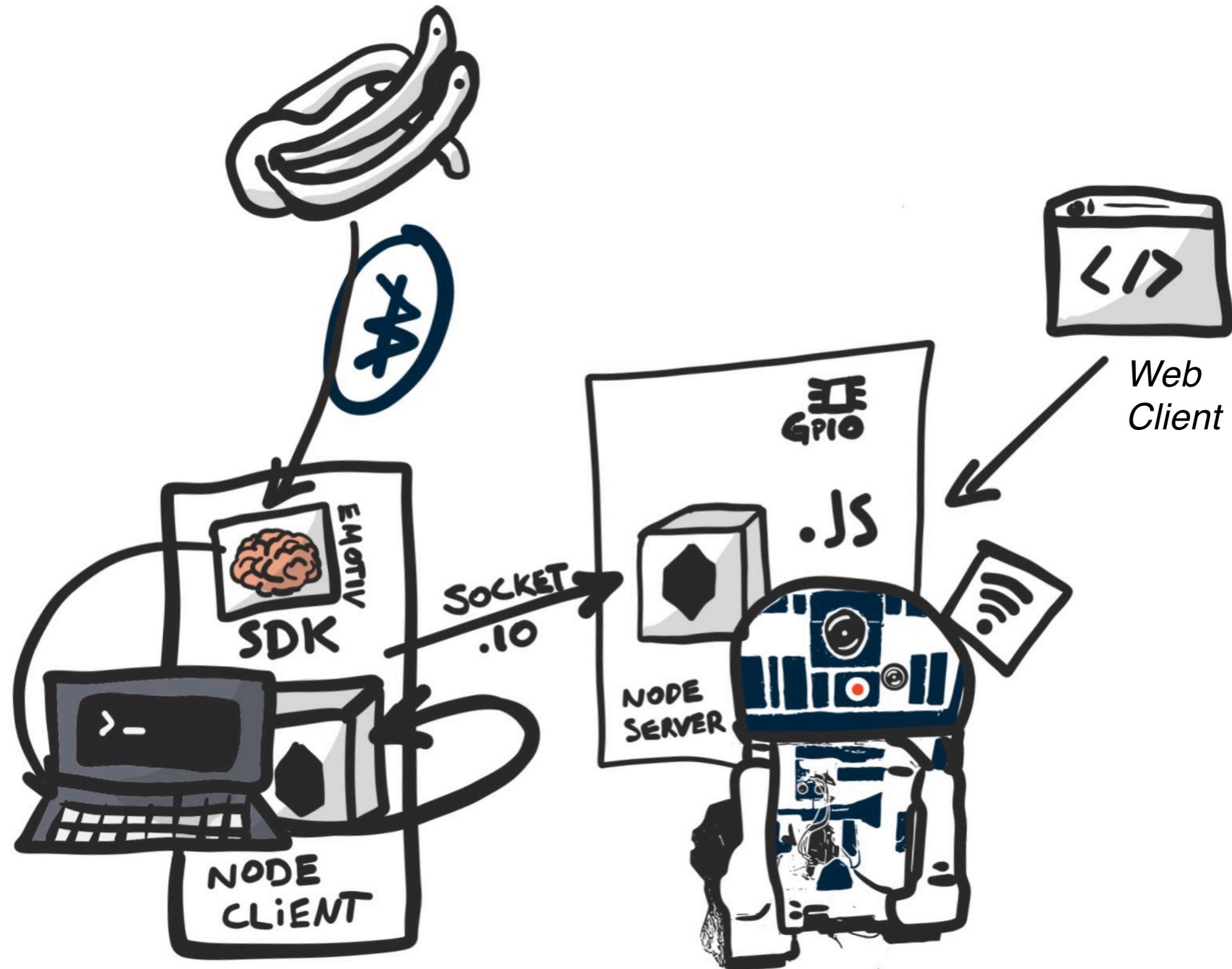
Consumer targeting

Mental commands

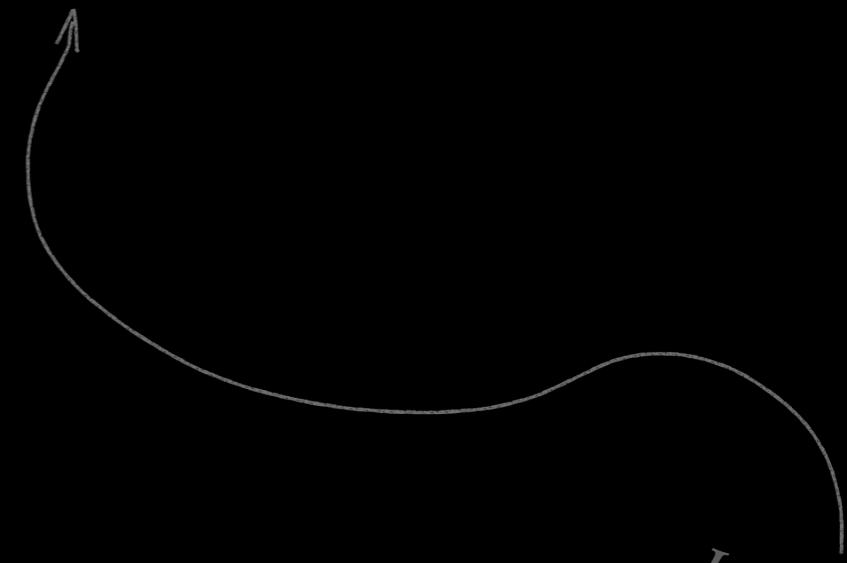
Bluetooth



SOCKET.IO IN DETAIL



DEMO



*Jedi mind tricks**



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github.com/peterpoliwoda

CHASED BY PENGUINS

Tales from the South Pole





Paddy's Day Weekend 



Home surveillance: Portal Style