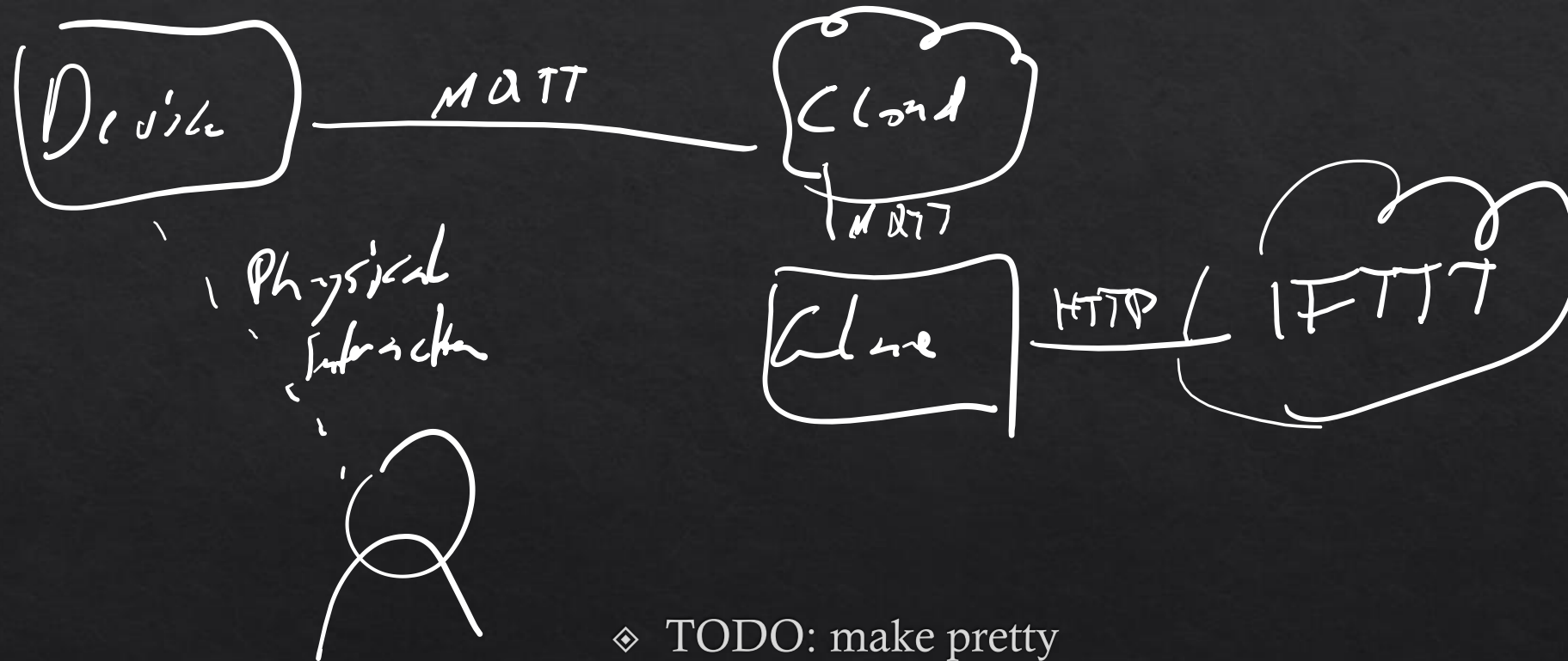# Use case

- ❖ Modern alternative to ancient morse code

- ❖ "Nothing is simpler than pressing one button" (Steve Jobs, probably)

- ❖ Global communication with minimal hardware requirement

- ❖ Supports all languages (that do not need characters outside the ASCII set)

Reference model

Device — MQTT — **Cloud**

Physical Interaction

Cloud — MQTT — **Client** — HTTP — **IFTTT**

◇ TODO: make pretty

Interface documentation

- ◇ MQTT
  - ◇ Topic: "morse/791548"
  - ◇ Publish and subscribe to the same topic
  - ◇ Message format: SENDER_ID,LETTER, e.g. "POOR_STUDENT,C"
  - ◇ LETTER must be in upper case from A-Z, 0-9.
  - ◇ SENDER_ID must be unique

Issues and solutions

- ◈ Libraries
  - ◈ Tried 2 MQTT libraries, 2 libraries for the 7-segment display

- ◈ Hardware
  - ◈ ESP8266 not programmable with sensors/actuators connected: Removed them every time…