# Stream for IoT with phant.io

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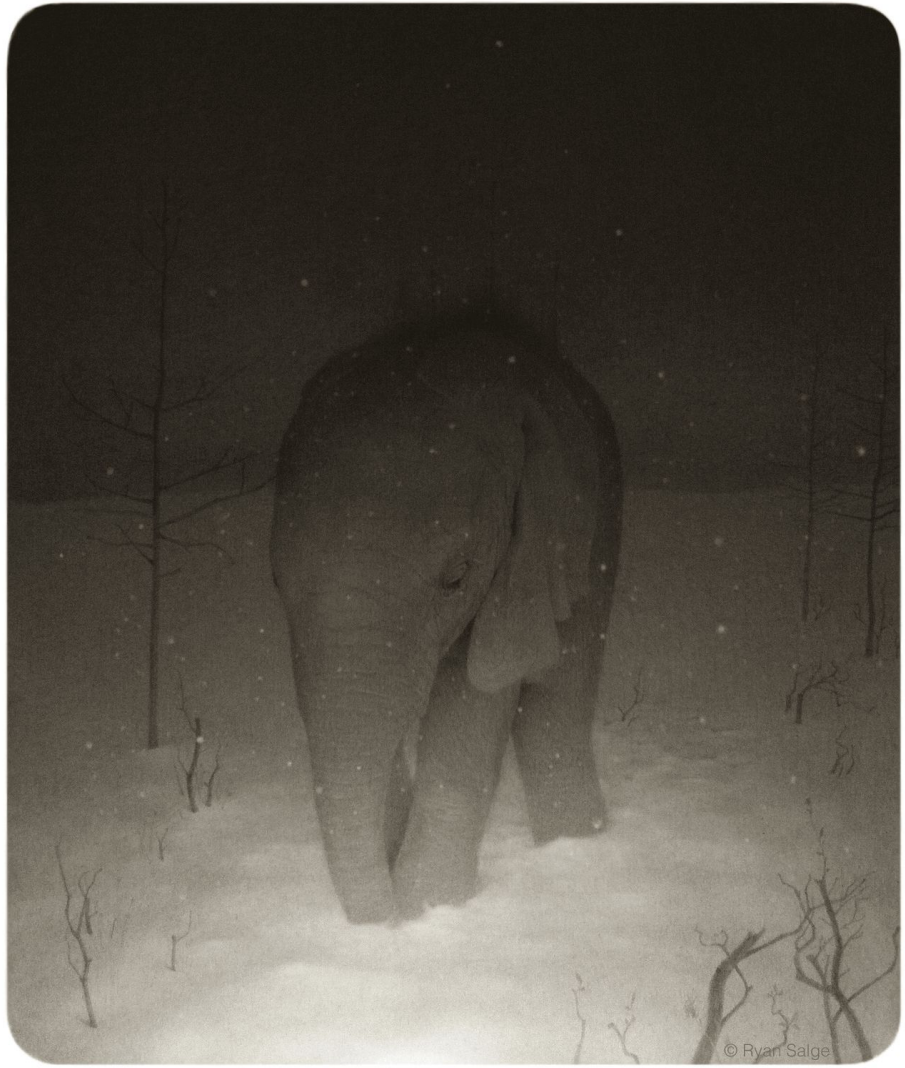
# WHAT IS PHANT.IO?



# PHANT.IO - LOGGING TOOL

- written in node.js
- for logging data from IOT devices
- open-source software :)
- designed to power **data.sparkfun.com**
- Maintained by *SparkFun Electronics*

So Another **QUESTION** is...

# What is data.sparkfun.com ?

# A PLACE TO PUSH YOUR DATA

- free :) [with some limits]
- public
- robust

IT IS POSSIBLE TO START **STANDALONE SERVER** ON YOUR OWN WITHOUT ANY LIMITS!

# MY LITTLE PROJECT

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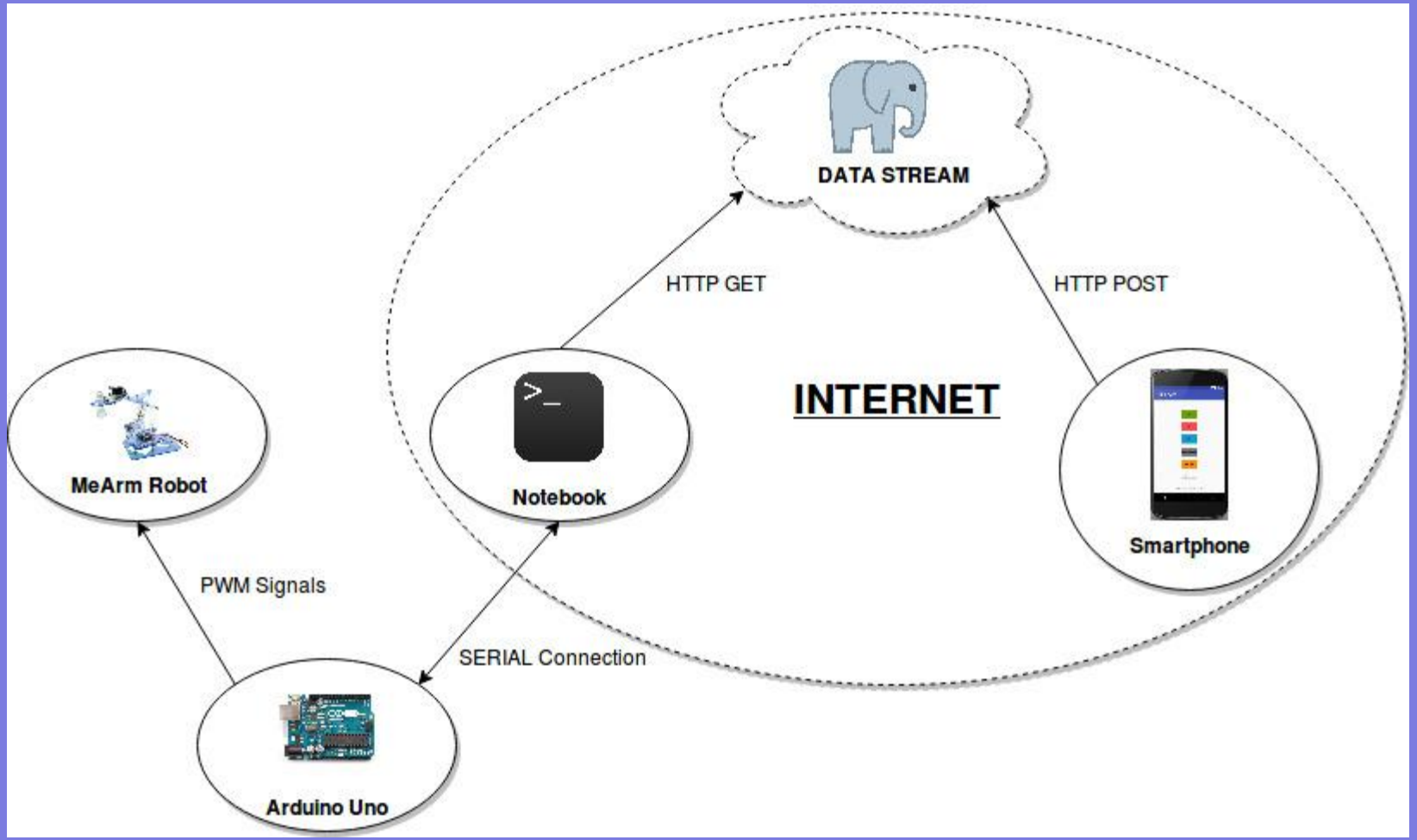
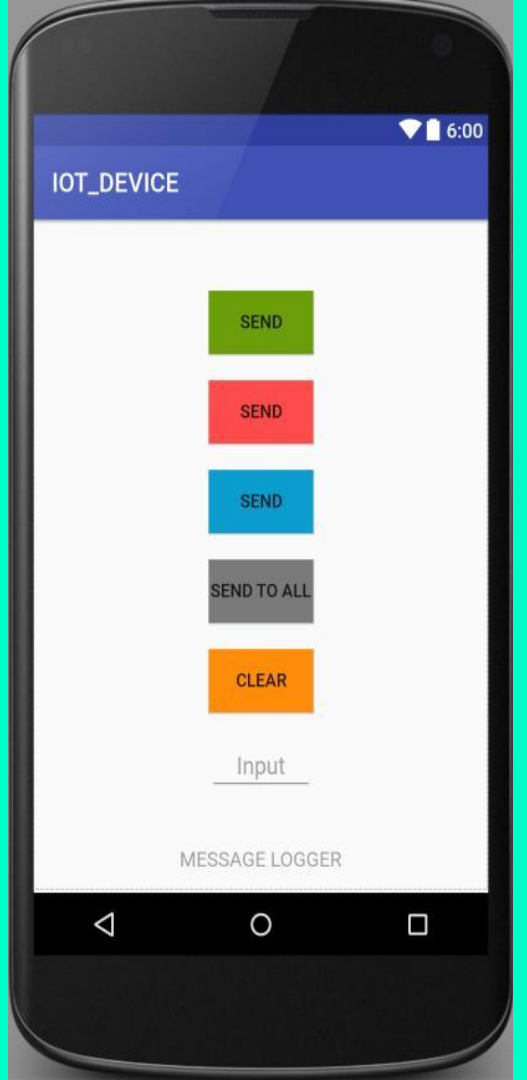
built from scratch

- Arduino Uno
- MeArm Robot
- Notebook
- Android SmartPhone
- Phant.io as IOT Platform


DATA STREAM
HTTP GET
HTTP POST
INTERNET
MeArm Robot
Notebook
Smartphone
PWM Signals
SERIAL Connection
Arduino Uno

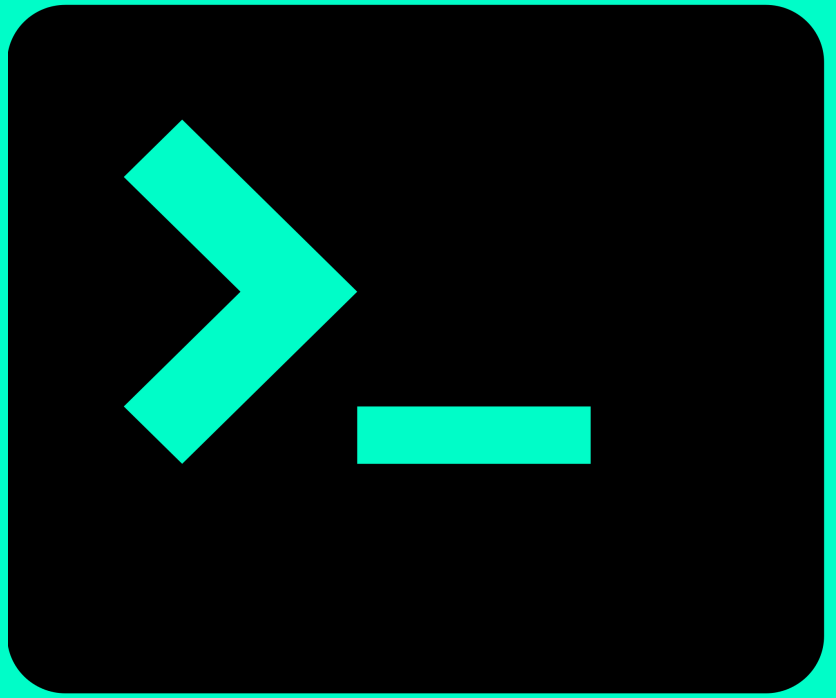
# Android APP

Using *Android Asynchronous HTTP Client* and *Google Client API*



# Python SCRIPT

Using *pyphant* library



# Arduino PROGRAM

Using *inverse kinematics* library and simple communication protocol

# MeArm robot

Controlled with servos and PWM

# THE END

**Thank you**

# Bibliography


- http://phant.io/docs/
- https://data.sparkfun.com/
- https://developer.android.com/index.html
- https://bitbucket.org/boomlinde/pyphant
- https://www.arduino.cc/
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- https://github.com/yorkhackspace/meArm