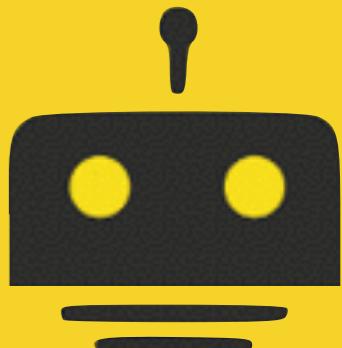


Webエンジニア向けIoT Visualizationサービス色々

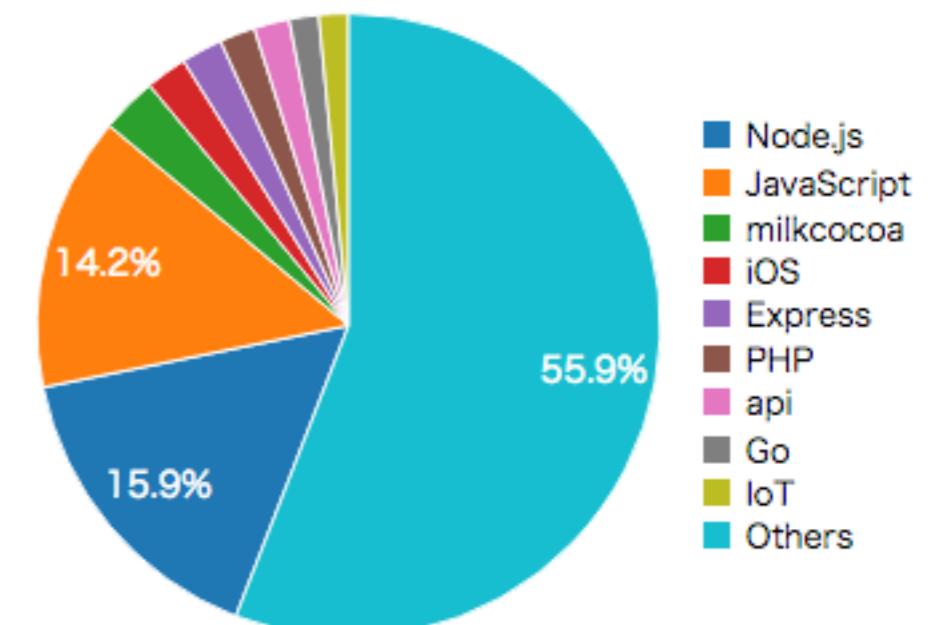
#iotIt vol.15

LIG inc. @n0bisuke



About Me

- **@n0bisuke**
- **LIGinc. エンジニア / DevRel事業責任者**
- 最近の興味: **IoT / JavaScript Robotics**
- 89世代 (平成元年)
- **Milkcocoaエバンジェリスト**
- **#IoTLT**
- わんこそば



Webの人です(番宣)

amazon.co.jp

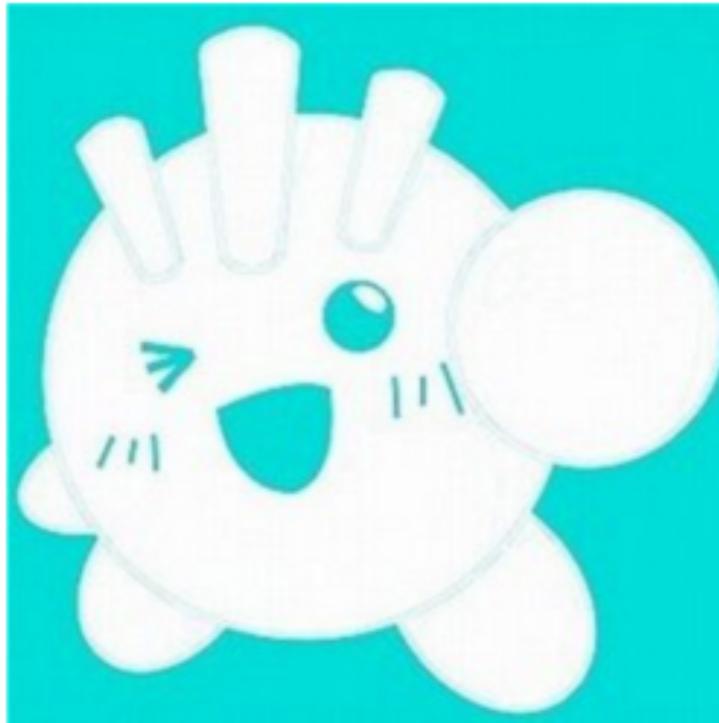
本 ▾

Amazonポイント: 3,298

マイストア ギフト券 タイムセール Amazonで出品 ヘルプ

カテゴリー ▾ 本 詳細検索 ジャンル一覧 新刊・予約 Amazonランキング コミック・ラノベ 雑誌 文庫・新書 Amazon Student 本のお買い

菅原 のびすけ



現場のプロが教える
**WEB
デザイン**
新・スタンダードテクニック
37
いまよく見る定番手法を大網羅!!

¥ 3,024
単行本



JavaScriptで
インタラクティブ3D
コンテンツを作ろう
Kinect+jThree+Milkocoaを使って
東北ずん子と遊ぶ

人田 凸平
西谷 淳也
菅原 のびすけ
中田哲
山本 光哉

踊る動作をkinectで認識し、リアルタイムで
Milkocoaを介してjThreeに伝え、jThreeが
人間の動作に従ってMMDを操作する。

¥ 1,944
Kindle版



史実の正しい基礎情報を得られないときに。
**フロントエンド
エンジニア**のための
現在と
これからの**必須知識**

厳選したトピックを
最前線の著者が解説!

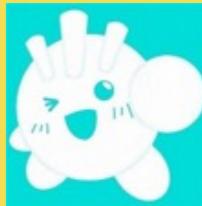
基礎となる技術の基礎知識
APIを駆使してデータを取得するための技術「REST API」「GraphQL」「MongoDB」などの基礎知識
基礎となる技術を理解するための技術「CSS」「JavaScript」「HTML」「jQuery」「React」「Angular」「Node.js」「MongoDB」などの基礎知識
基礎となる技術を理解するための技術「CSS」「JavaScript」「HTML」「jQuery」「React」「Angular」「Node.js」「MongoDB」などの基礎知識

¥ 2,786
単行本（ソフトカバー）

1989年生まれ。岩手県立大学在籍時に
ITベンチャー企業の役員を務める。

左からWebデザイン/ IoT / フロントエンド な書籍共著で書きました

最近の活動はもっぱら IoT 周り

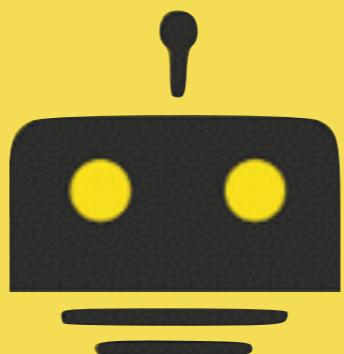


by NOBISUKE SUGAWARA (LIG Inc.) & TAKASHI TSUCHIYA (Relations Inc.)

IoT縛りの勉強会



IoTなバックエンドサービス Milkcocoa



NodeBots



覚えてますでしょうか IoT LT vol8

Speaker Deck Published on Oct 15, 2015

LIG INC.

IoTビジュアライズ今昔

~これからIoTはグラフ化じゃないだろうか~

ひかり

● 開度

上野の気温

最高気温

光ゲージ

-28

株式会社LIG 菅原 のびすけ

@n0bisuke

sugawara.ryousuke

IoT LT

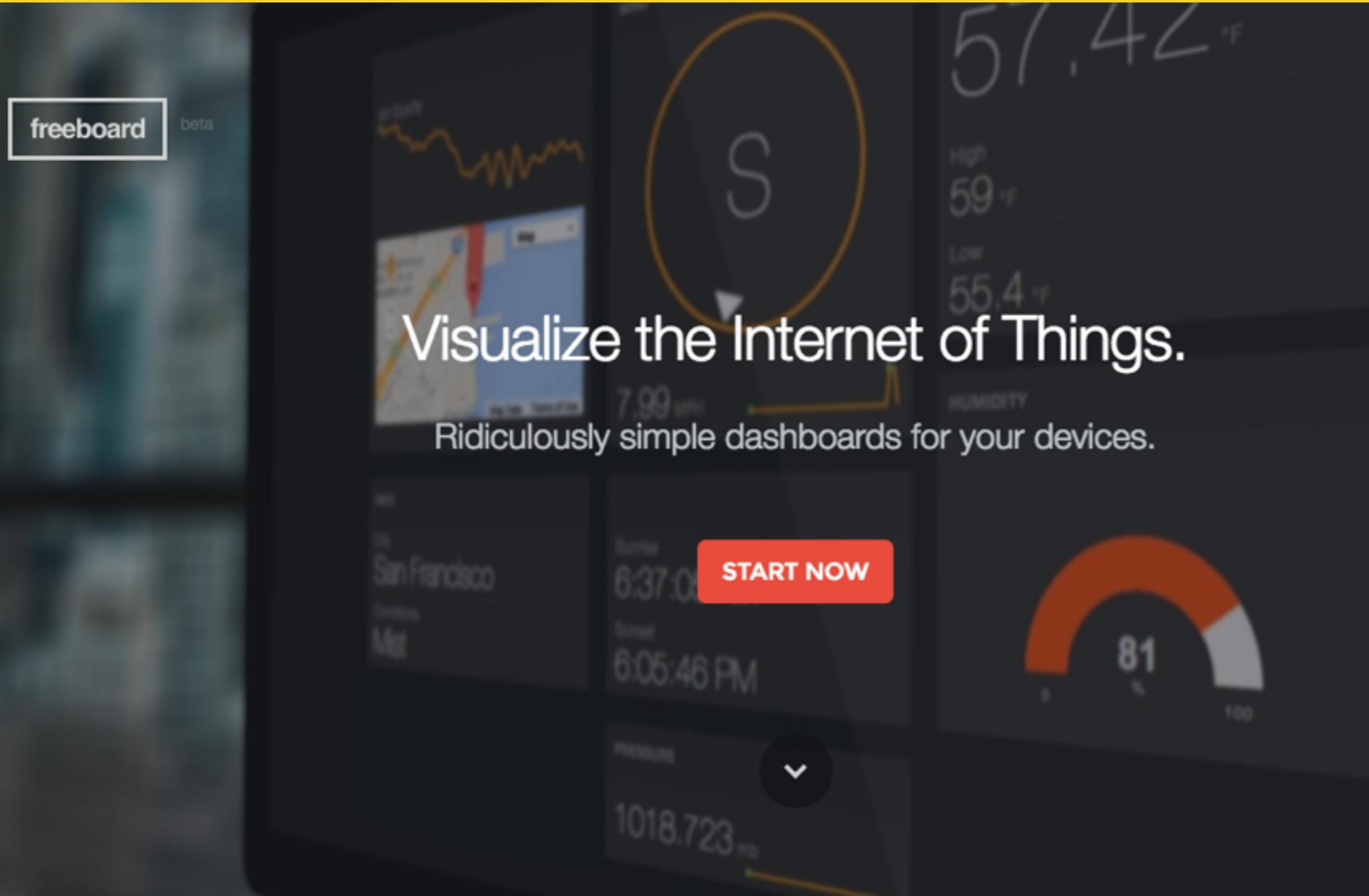
share

IoTでセンシング ↓
データが膨大に蓄積 ↓
データの解析 ↓
結果、どうみせるか



まとめると
"IoTはビジュアライズが重要になるんじゃね？！"って

Freeboard



<http://freeboard.io/>

Freeboard



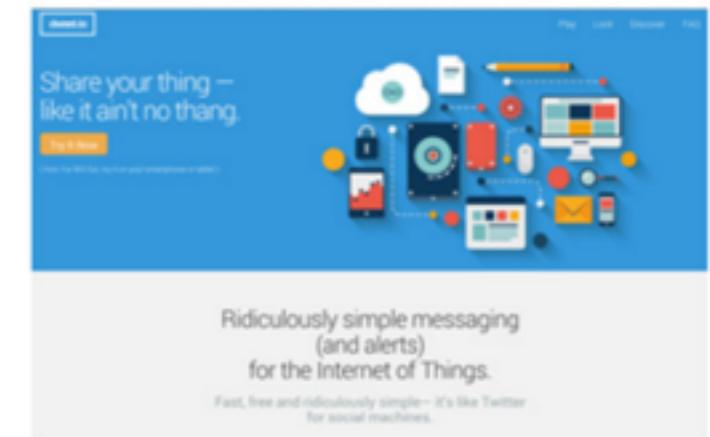
連携してあるサービス(抜粋)

PubNub



SDKが多彩!

Dweet.io



登録不要!

- ・ いづれもNode.js
 - ・ サーバーやDBを用
- なノリで利用可能
- Milkcocoa
- リアルタイムにデータを共有/保存が出来るBEサービス(BaaS)

Thing Speak

ThingSpeak™

Channels ▾

Apps

Blog

Support ▾

Account ▾

Sign Out

Billions and Billions

The open data platform for the Internet of Things

Get Started

Contact Us



<https://thingspeak.com/>

Thing Speak Client

Nifty Purring Manticore

npm find packages

★ **thingspeakclient** public
node.js Client for ThingSpeak

ThingSpeak-Client for node.js

A client for updating and reading channels and fields on **ThingSpeak** or your own **ThingSpeak**-complete **Channels-API** is implemented.

```
$ npm install thingspeakclient
```

Netbeast Dashboard



Try It!

Get the app

Community

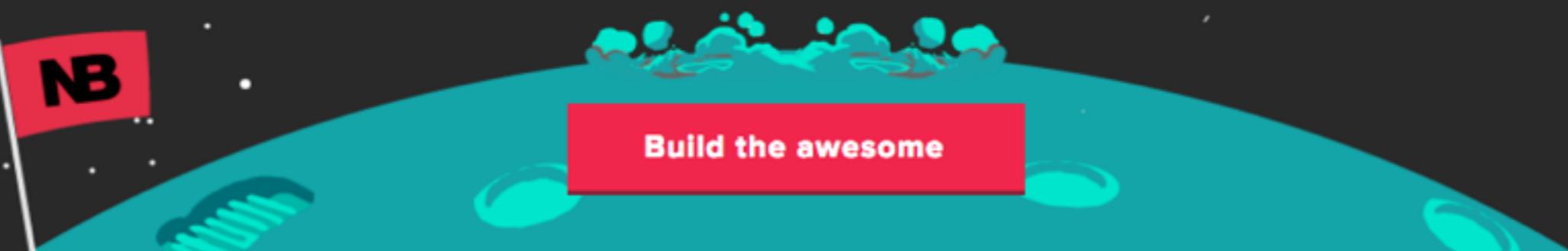
Blog

Build the awesome



Build apps to connect the Internet of Things.

Netbeast is an Internet of Things javascript development platform that empowers developers to easily create and deploy IoT apps



<https://netbeast.co/>

netbeast-cli

The screenshot shows a web browser displaying the Netbeast Documentation page. The URL in the address bar is `https://netbeast.netbeast.netbeast`. The page has a light gray header with the title "Netbeast Documentation". Below the header, there is a navigation menu with the following items:

- Documentation (highlighted in teal)
- About Netbeast
- Getting started
- Installation
- The Dashboard
- First steps
- Developing (highlighted in teal)
- How to develop
- Your first application

On the left side of the page, there is a sidebar with the following sections:

- Netbeast OS dashboard, IoT apps m
- linux & mac
- windows
- build passing
- build passing

The main content area features a large heading "Netbeast Dashboard" and a sub-section "Connect everything. Regardless its bran". Below this, there is a snippet of code:

```
var netbeast = require('netbeast')
```

The right side of the page contains several sections with headings like "Installing and", "Get ready. Your journey to", "Install Node.js", and "Netbeast is tested and g". There is also a section about "Node.js is available for all" and a note about installing Node.

```
$ npm install -g netbeast-cli
```

INITIAL STATE

Enterprise

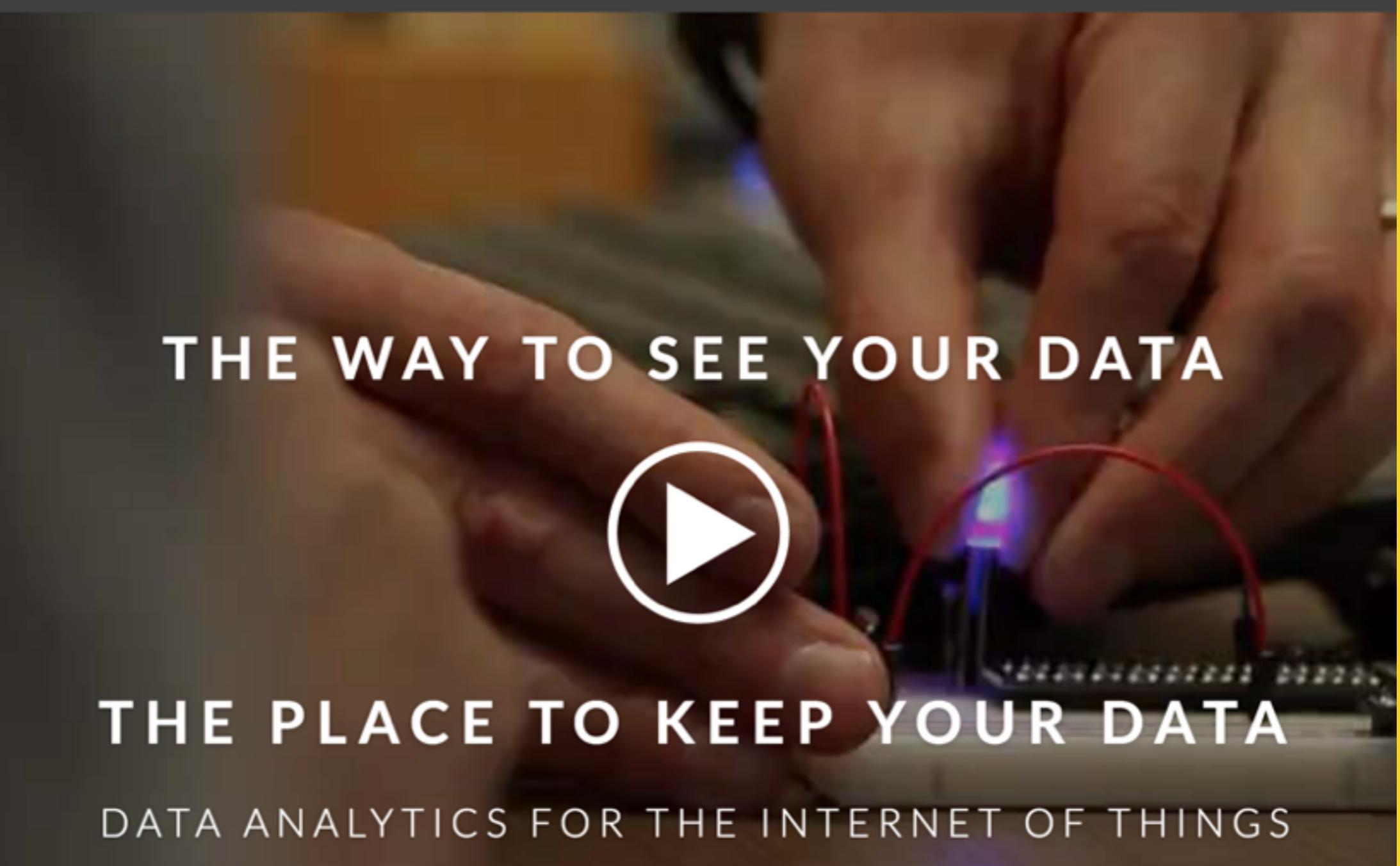
Docs



INITIAL STATE

Integrations

Blog



A close-up photograph of two hands wearing orange gloves, working on a dark-colored electronic circuit board. One hand holds a red component while the other uses a tool to connect wires. A small blue LED light is visible on the board, emitting a bright glow. The background is blurred, focusing on the hands and the glowing LED.

THE WAY TO SEE YOUR DATA



THE PLACE TO KEEP YOUR DATA

DATA ANALYTICS FOR THE INTERNET OF THINGS

<https://www.initialstate.com/>

INITIAL STATE

Installation

```
npm install initial-state
```

Example Use

```
var IS = require('initial-state');
var bucket = IS.bucket('NodeJS SDK Example');

// Push event to initial state
bucket.push('Demo State', 'active');

setTimeout(function () {
    // Push another event
    bucket.push('Demo State', 'inactive')
}, 1000);
```



IoT DashBoard

Hello
Welcome to ithe IOT Dashboard

Protip: You can drag the widgets around!

Sensors1



Last updated at 12:44

Current
Temperature

22

↑57%

Celuis
Last updated at 12:44

Temperat Trends

22

<https://github.com/iot-works/iot-dashboard>

INTERNET OF EVERYTHING IS UNDERCONTROL



EASY API INTEGRATION

We provide examples on hardware and software for each sensor. So you can focus on the innovation



HORIZONTAL

Our platform is agnostic and flexible. We believe that the future is builded evolving and adapting



BEAUTIFUL

We pursue best development practices. Therefore, we encourage ourselves to follow



OPEN

Our platform is free for non-comercial applications. We'll be glad to help you with your projects

IoT Data Analytics & Visualization (カンファレンス)

Informa



Conference ▾

Sponsors & Exhibitors ▾

Event Info ▾

Media ▾

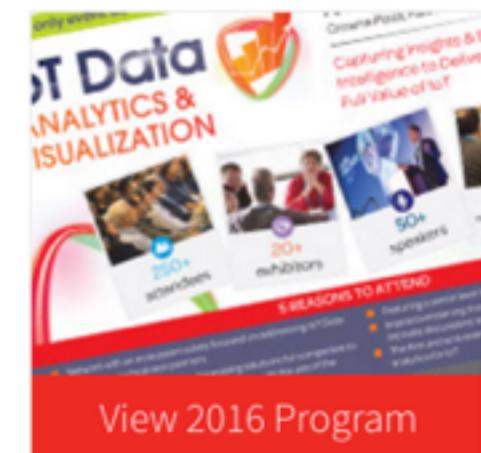
IoT News

Pre-Register 2017 ▾

Global Series ▾



February 2017
Crowne Plaza, Palo Alto
Capturing Insights & Building Intelligence to
Deliver the Full Value of IoT



View 2016 Program



IoT Analytics & Visualization 2017

IBM Bluemix

IBM Watson IoT Platform

QUICKSTART サービス状況 資料 ブログ サイ:

The screenshot shows the IBM Watson IoT Platform interface. On the left, there's a large graphic of a circuit board with a central cloud icon. In the center, the word "Things" is displayed in large white letters. To the right of "Things", there's a smaller graphic of a ship at sea with a clock icon above it, accompanied by Japanese text: "からデータを収集し、価値を引き出す". Below these graphics, the "IBM Internet of Things Foundation" logo is visible. On the left side of the main panel, there are several dropdown menus and checkboxes for selecting data sources and sensors. The right side features a line chart showing data over time, with a sharp peak around 45 seconds followed by a sharp drop.

IBM Internet of Things Foundation

Device:
my first ESP WROOM 02

Data
 Raw Data Humanized Data

Sensors
 Value Status
 counter

Chart Type
 Area Bar Line Scatter

Customize
 auto scale
 auto zoom
 auto refresh
 full screen
 print
 export

Use a different API key and Auth Token

A line chart showing sensor data over time. The x-axis represents time in seconds, with major ticks at 15s, 20s, 25s, 30s, and 35s. The y-axis represents numerical values from 0 to 25. The data series starts at approximately 5, rises steadily to about 18 at 30s, remains flat until 35s, then drops sharply to near 0 at 40s, before rising again to about 5 at 45s.

<https://internetofthings.ibmcloud.com/>

おまけ

GitHub上で気になったやつ

serverless



<https://github.com/serverless/serverless>

SwiftyGPIO



SwiftyGPIO

A screenshot of a presentation slide titled "Speaker Deck". At the top, there are icons for the Swift logo and a Raspberry Pi, followed by the text "Published on May 30, 2016". Below this, there is a large yellow area containing the text "RasPiも制御できるサーバーサイドSwift" and "#love_swift vol7 LIG inc. @n0bisuke". A small robot icon is located in the bottom right corner of the yellow area. The overall background of the slide is yellow.



サーバーサイドSwiftでGPIO制御できる何か

JanOS

[Home](#)[Device List](#)[Download](#)[Documentation](#)[About JanOS](#)

JanOS

turn your phone into an IoT board

JanOS is an operating system designed to run on the chipset of mobile phones. It runs without a screen, and allows you to access all phone functionality, from calling to the camera, through JavaScript APIs.

[See video from JSConf.eu](#)

Why?

Current development boards for Internet of Things solutions have one big problem: they are very expensive. Boards like the Raspberry Pi or

古くなったスマホをIoTボード化する？

PlatformIO

The screenshot shows the official PlatformIO website. At the top is a dark navigation bar with the PlatformIO logo, a rocket icon labeled "Get Started", a cube icon labeled "IDE", a wrench icon labeled "Development", and a code icon labeled "Libraries". Below the navigation bar is a large orange circular logo featuring a stylized orange robot head with two antennae and large white eyes. The main text area contains the heading "PlatformIO is an open source ecosystem for IoT" in bold black font, followed by a smaller description: "Cross-platform build system. Continuous and IDE integration. Arduino and AI". A green button with a rocket icon and the text "Get Started" is centered below the description. At the bottom of the page are social media links: GitHub, Bintray, Twitter, Facebook, Hackaday, and Forums, along with links to Release Notes, Documentation, and a note about being made with ❤️ in Ukraine.

PlatformIO is an open source ecosystem for IoT

Cross-platform build system. Continuous and IDE integration. Arduino and AI

Get Started

[GitHub](#) · [Bintray](#) · [Twitter](#) · [Facebook](#) · [Hackaday](#) · [Forums](#)

[Release Notes](#) · [Documentation](#) · Made with ❤️ in Ukraine

古くなったスマホをIoTボード化する?

まとめ

- IoTはビジュアライズフェーズに
 - Thing Speak
 - Freeboard
 - Netbeast Dashboard
 - IoT DashBoard
 - undercontrol.io
 - INITIAL STATE

などなど。

Webな人たちも是非使ってみましょう。

以上、ありがとうございました！