

IoT für KMU

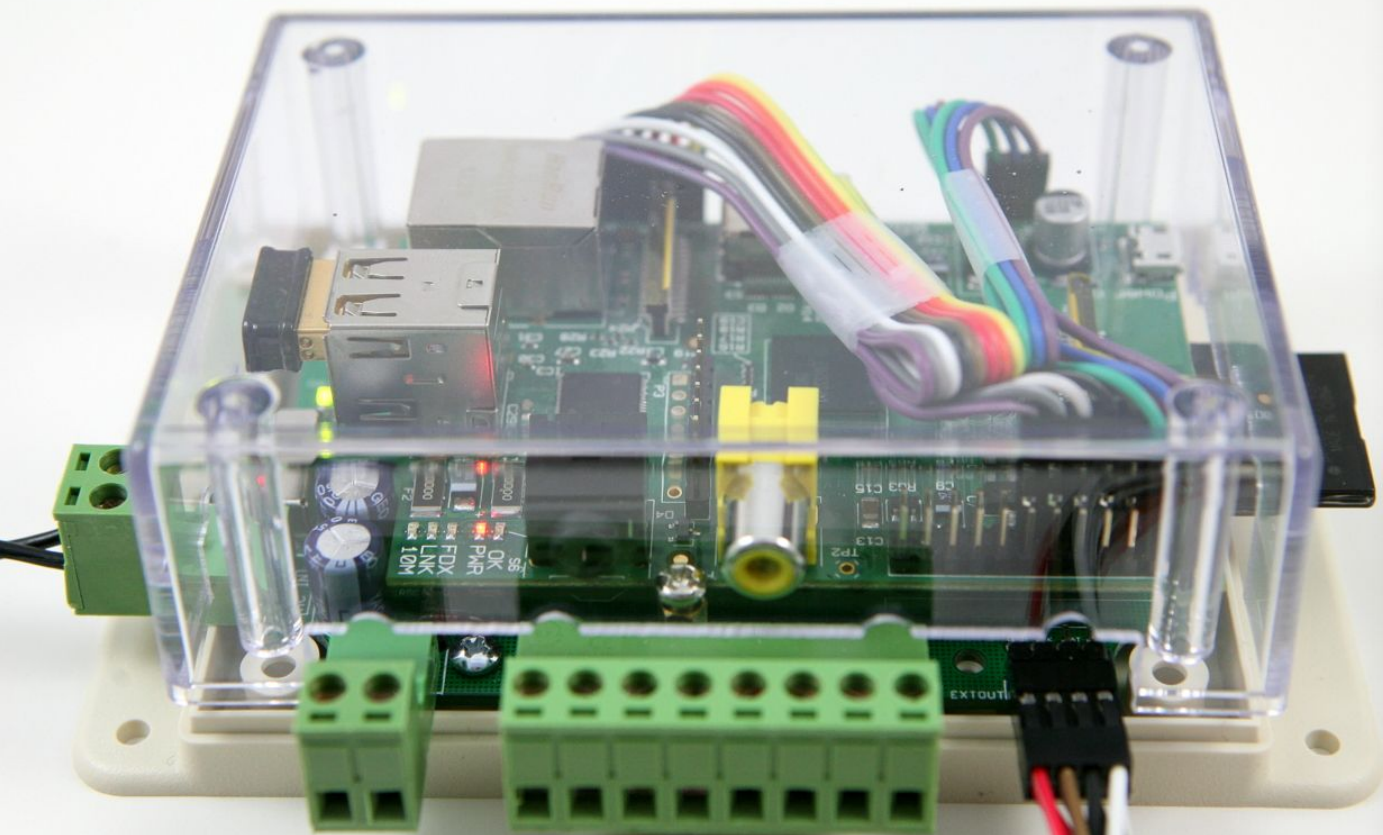
thomas.amberg@yaler.net, 04.2017

Internet of Things (IoT)

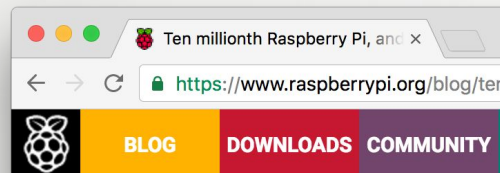


Internet-verbundene Computer
mit Sensoren und Aktuatoren

"Physische Objekte mit Web API"



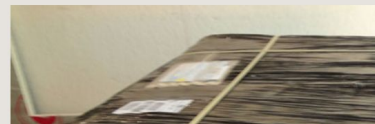
raspberrypi.org, rayshobby.net/opensprinkler



TEN MILLIONTH RASPBERRY PI

When we started Raspberry Pi, we had a simple goal: to get a small, programmable computer in the hands of thousands of people. We thought we might revive some of the sense of excitement that we had back in the 1980s with our Sinclair Spectrum.

At the time, we thought our lifetime volumes would be in the tens of thousands, if we were lucky. There was no expectation of commercial success, and later we would be manufacturing tens of thousands of Raspberry Pis, exporting Raspberry Pi all over the world.



mobility
car sharing

How it works Solutions Mobility stations Vehicles Become a customer



Find a station...



06/06/2016 / 02:30 - 06/06/2016 / 05:30



All



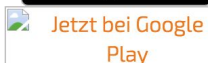
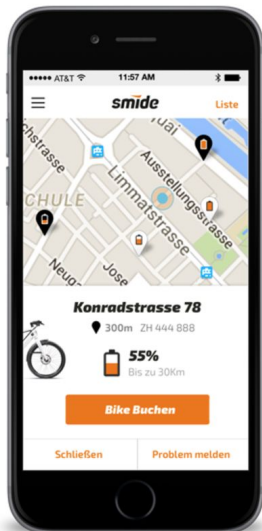
Go! →

mobility
car sharing



Jetzt starten: Lade Dir einfach gratis die smide-App herunter und finde heraus wo das nächste smide-bike steht! Dann schwing Dich aufs Rad und fahr ganz entspannt los!

Für deine ersten 20 Minuten schenken wir dir ein Startguthaben.



E-Bike orten

Über eine Kartenansicht findest Du schnell ein E-Bike in Deiner Nähe.

Reservieren und buchen

In der App sind bereits alle Infos zu Rahmengrösse, Reichweite abrufbar. Hier kannst Du Dein E-Bike buchen.

Prepaid Minuten aufladen

Über eine angebundene Kreditkarte kannst du jederzeit Dein Minutenguthaben aufladen.





Get a notification in your hearing aids when the doorbell rings.

[Click for full guide](#)



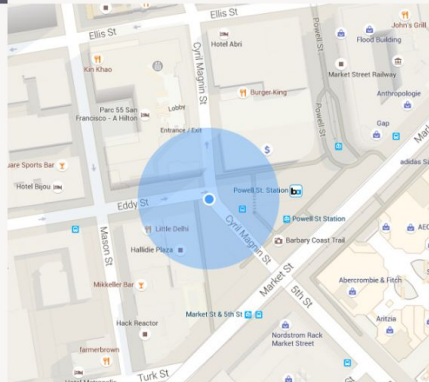
Receive a notification when your home alarm system goes off.

[Click for full guide](#)



Send a text message or email to a caregiver when the hearing aid battery is low.

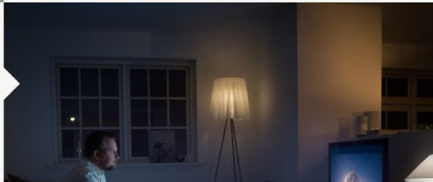
[Click for full guide](#)



Have your hearing aids switch to a preferred listening program based on your GPS location.

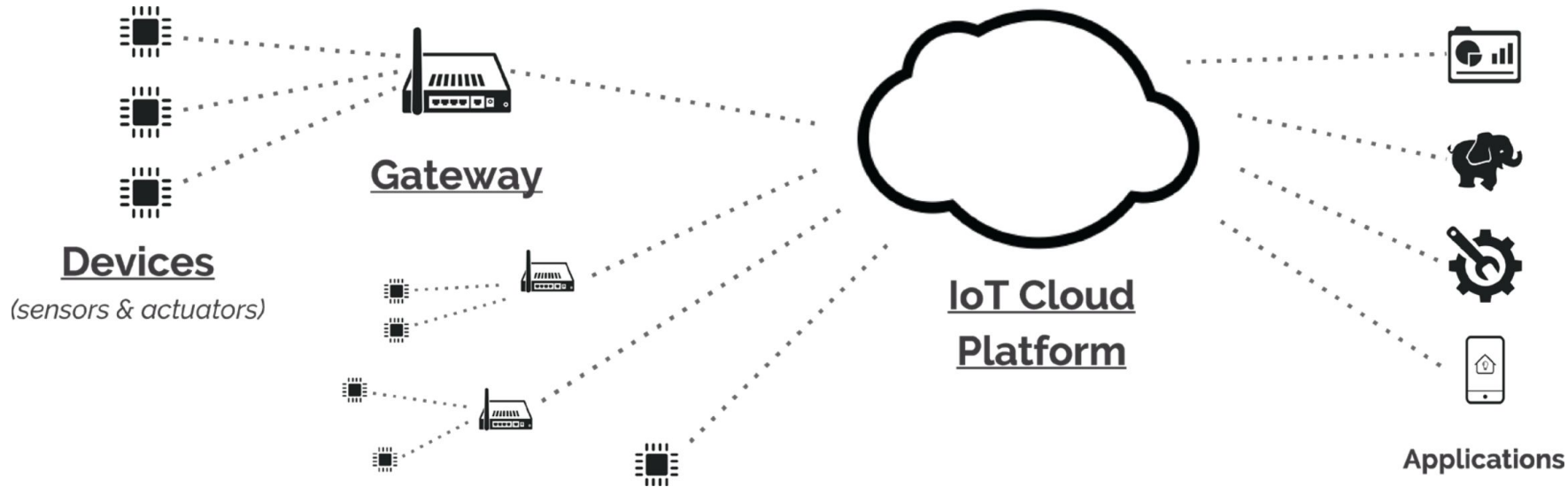
[Click for full guide](#)

Have your hearing aids go into a special listening program when you make a



Wie verknüpft man Produkte mit Diensten?

IoT Plattformen





INTEGRATE

Build one, simple connection to the Validic API to integrate data from hundreds of apps and devices.



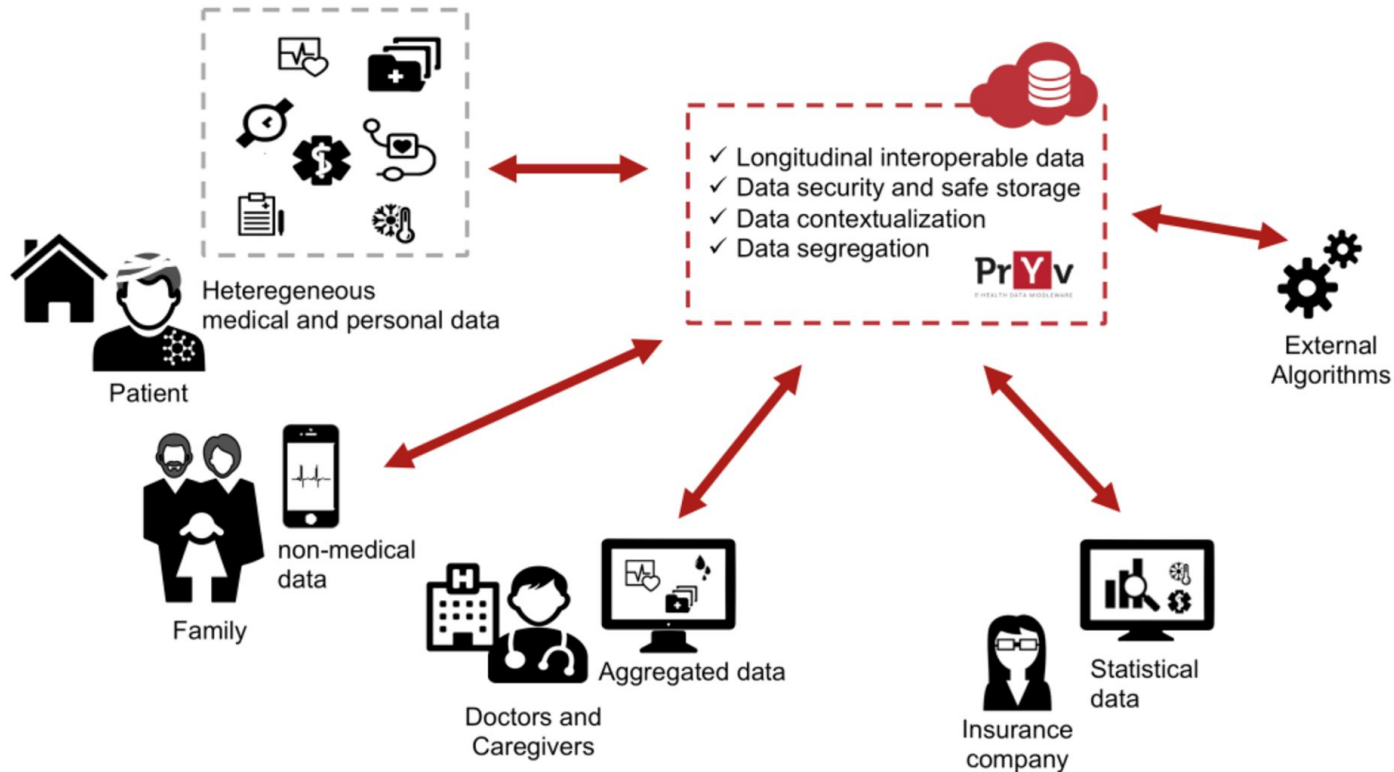
ENGAGE & CONNECT

Within your platform or portal, users can connect their apps and devices, granting permission for the transfer and use of data.



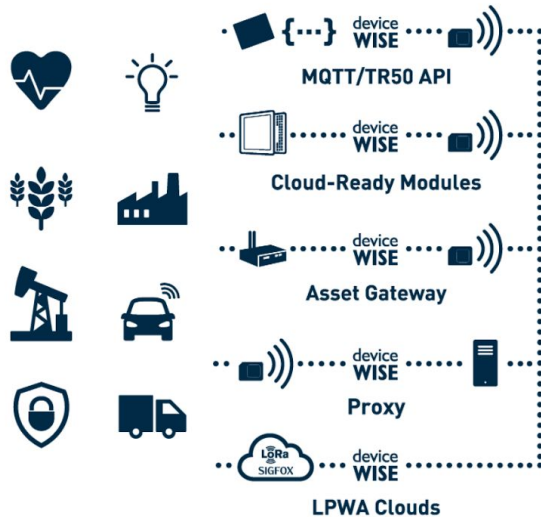
RECEIVE

Receive timestamped, validated and standardized data through Validic's secure API for your use, display and analysis.



deviceWISE IoT Platform

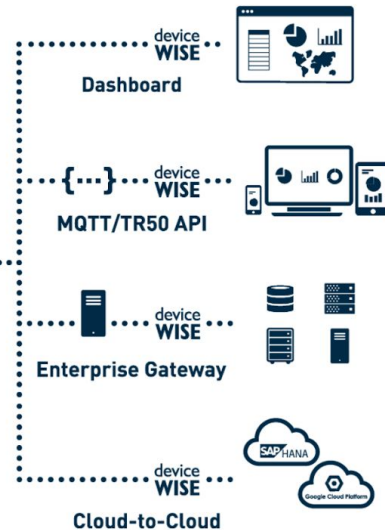
CONNECT



MANAGE



INTEGRATE



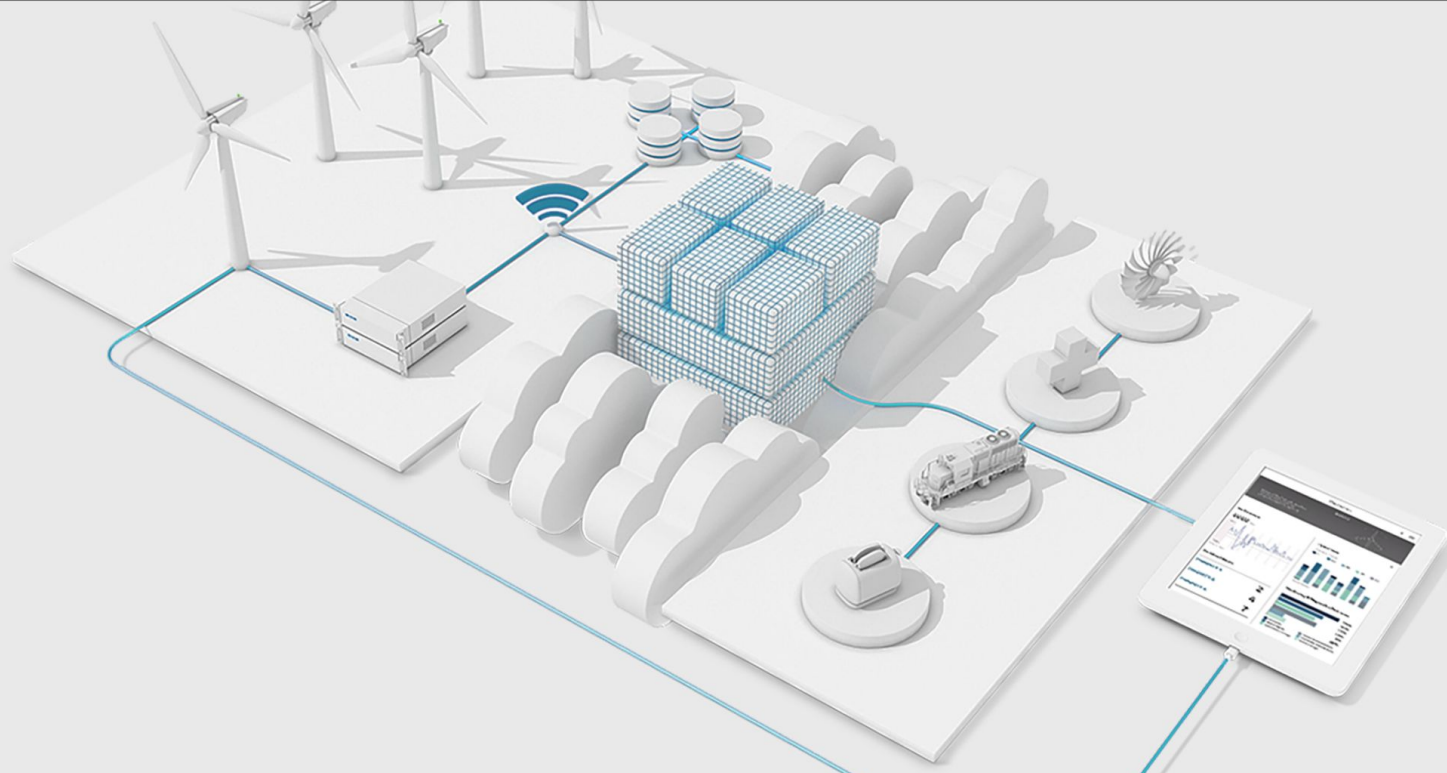
PREDIX

Overview

Get Started

Partners

CONTACT US



Analytics

Predix provides out-of-the box analytic models for developing analytic applications and workflows. You can subscribe to, configure, and deploy these analytics in your own Analytics Library to solve your use cases and shorten the time to market.

ANOMALY DETECTION

Trend Anomaly Detection

Manage critical time series trend detection.

PREDIX

High-Dimension Anomaly Detection

Check multiple sensors for key time series anomaly detection.

PREDIX

Low-Dimension Anomaly Detection

Maintain machine health with this critical time series anomaly detection.

PREDIX

Shift Anomaly Detection

Enable key time series shift detection.

PREDIX

Univariate Anomaly Detection

Improve time series rates-of-change anomaly detection.

PREDIX

Temporal Anomaly Detection

Assure accurate and highly detailed time series anomaly detection.

PREDIX

Kalman Anomaly Detection

This service identifies statistical anomalies in noisy data.



GE Transportation

Hotellings T-Square for Multivariate Outliers

This analytic detects the anomalies in a multivariate quality control process using Hotelling T squared.

PREDIX

Isolation Forest Outlier Detection

Granger Causality Anomaly Detection

SOON

Image-Based Diagnosis

This analytic uses image features to segment

AWS IoT Platform - Amazon Web Services



AWS IoT

Easily and securely connect devices to the cloud.
Reliably scale to billions of devices and trillions of messages.

Get started with AWS IoT

Azure IoT Hub | Microsoft Azure

Microsoft Azure

IoT Hub


Connect, monitor, and manage billions of IoT assets

- ✓ Get started quickly
- ✓ Connect and manage billions of IoT devices and assets
- ✓ Support a broad set of operating systems and protocols
- ✓ Establish reliable, bi-directional communication
- ✓ Enhance the security of your IoT solutions
- ✓ Ingest real-time data and upload files to the cloud


Get started with IoT Hub

Explore IoT Hub:
[Pricing details](#)
[Documentation](#)

IBM Watson IoT - IoT Platform



Watson Internet of Things



Make sense of data to optimize operations, manage assets, rethink products and services, and transform the customer experience.

Make the Watson IoT Platform the hub of your IoT projects. Deploy a cloud-hosted framework on IBM Bluemix.

Try Watson IoT Platform

Was ist der gemeinsame Nenner?

Informationsmodell

Platform Overview | Google Fit x

Thomas

Secure https://developers.google.com/fit/overview#components

Google Fit

The sensor framework defines high-level representations for sensors, fitness data types, data points, and sessions. These representations make it easy to work with the fitness store on any platform.

Data Sources

Data sources represent sensors and consist of a name, the type of data collected, and other sensor details. A data source may represent a hardware sensor or a software sensor. You can define software sensors in your apps.

Data Types

Data types represent different kinds of fitness data, like step count or heart rate. Data types establish a schema through which different apps can understand each other's data. A data type consists of a name and an ordered list of fields, where each field represents a dimension. For example, a data type for location contains three fields (latitude, longitude, and accuracy), whereas a data type for weight contains only one field.

Data Points

Data points consist of a timestamped array of values for a data type, read from a data source. You use data points to record and insert fitness data in the fitness store, and to read raw data from a data source. Points that contain a start time represent a time range instead of an instantaneous reading.

Datasets

Datasets represent a set of data points of the same type from a particular data source covering some time interval. You use datasets to insert data into the fitness store. Queries to read data from the fitness store also return datasets.

Sessions

Sessions represent a time interval during which users perform a fitness activity, such as a run, a bike ride, and so on. Sessions help organize data and perform detailed or aggregate queries on the fitness store for a fitness activity.

Fit - Google

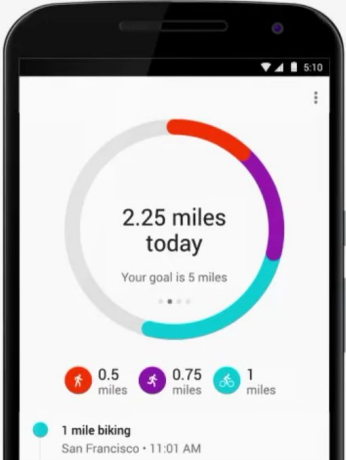
Thomas

Secure https://www.google.com/fit/

Google Fit

Get Google Fit

Fit tracks steps, time, distance, and calories to help you measure and achieve fitness goals.



2.25 miles today
Your goal is 5 miles

0.5 miles 0.75 miles 1 miles

1 mile biking
San Francisco • 11:01 AM

Make every effort count

Fit automatically detects walking, running, and biking. Want credit for badminton, rowing, or yoga? You can choose from a list of 120+ fitness activities to track.

	c_peptide	Double	The value of the measured quantity in ng/mL	
hba1c	fasting_plasma_glucose_test	Double	The value of the measured quantity in %	The value of the measured quantity in %
	hba1c	Double	The value of the measured quantity in %	
insulin	insulin	Double	The value of the measured quantity in U	The value of the measured quantity in U
	oral_glucose_tolerance_test	Double	The value of the measured quantity in mg/dL	
	random_plasma_glucose_test	Double	The value of the measured quantity in mg/dL	
	relationship_to_meal	string	Displays when the reading was taken in relation to food consumption. Possible Values: <ul style="list-style-type: none">before: reading was taken before a meal was consumedafter: reading was taken after a meal was consumedrandom: reading was taken at a "random" time in relation to a meal, meaning not immediately before or after eating.fasting: reading was taken during a fasting periodnull: no relationship to meal value was provided	
	triglyceride	Double	The value of the measured quantity in mg/dL	
	blood_glucose	Double	The value of the measured quantity in mg/dL	
	validated	Boolean	Value indicates the data you are receiving was	

Tags

Intrusion
Alarm

Window

Shutter

Ventilation

Indoor
Temp.

PLANNED IN 2.X

SEMANTICAL

Items

KITCHEN
WINDOW SOUTH

OFF

OPEN

60%

FAN

80%

23°C

FUNCTIONAL

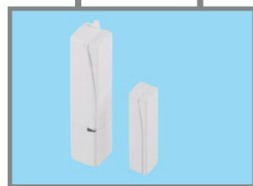


Links

Channels

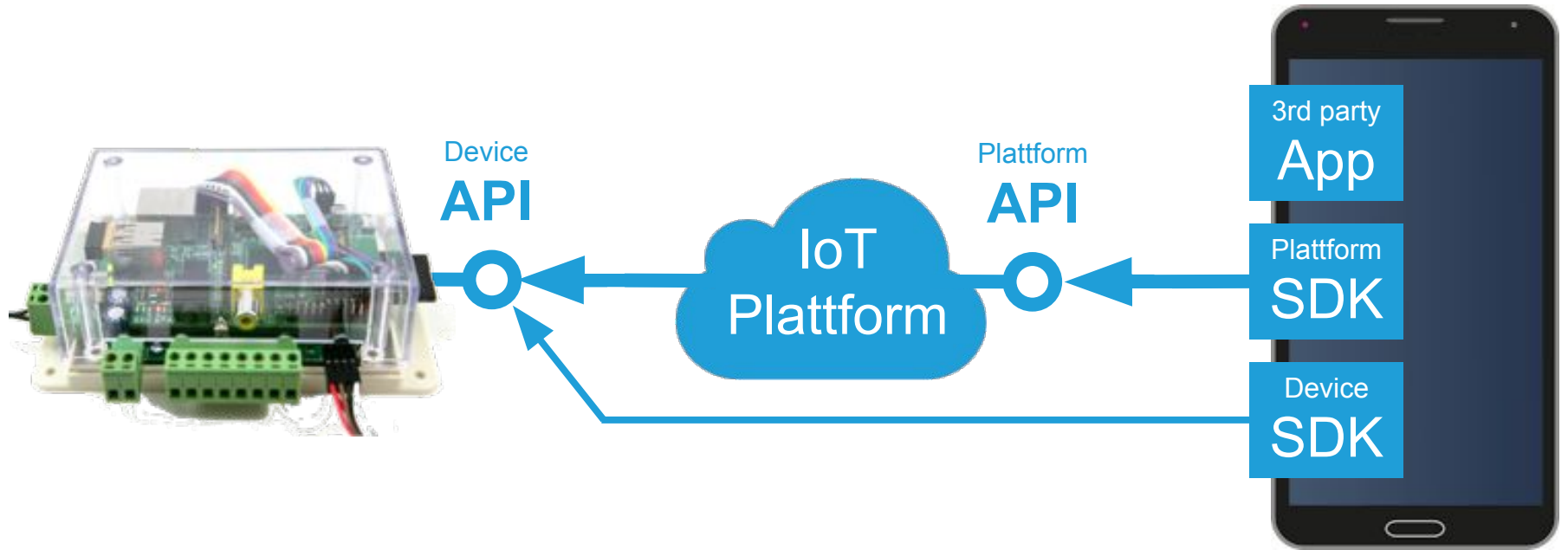
Things

PHYSICAL



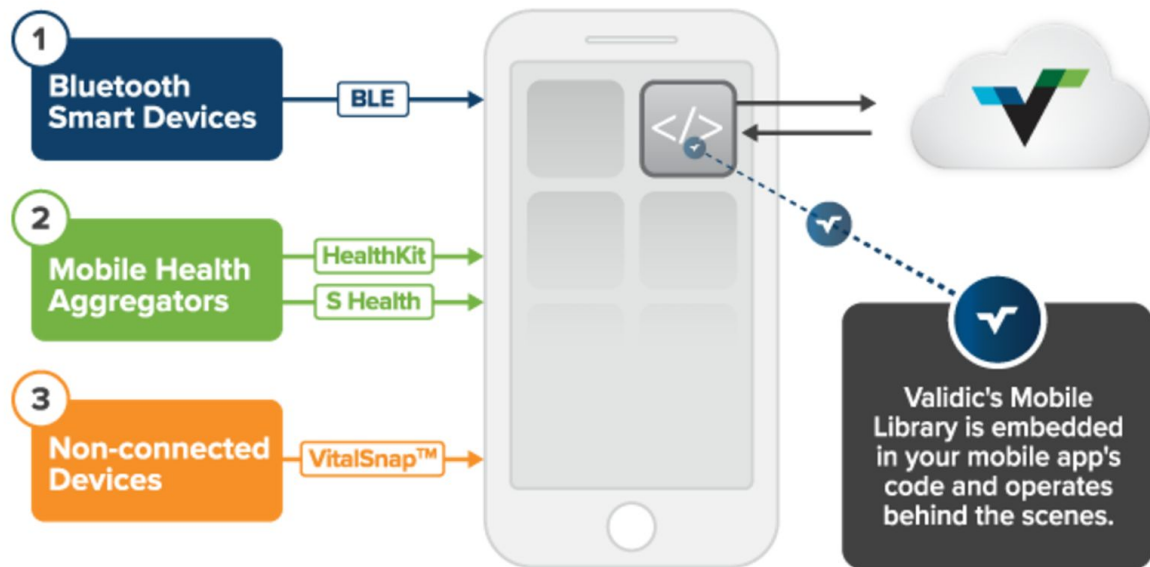
Wie wird ein Produkt integrierbar?

Schnittstellen



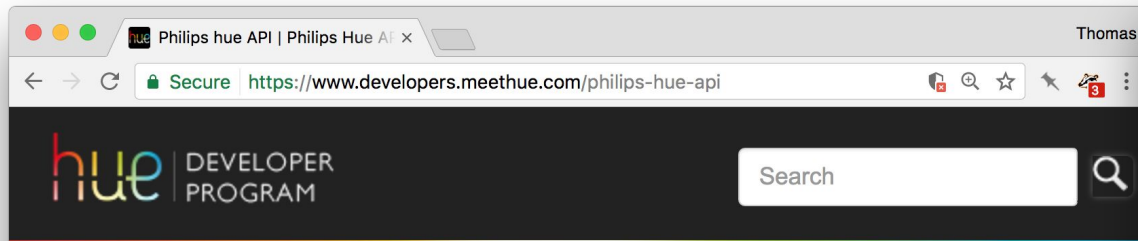
API = "How to talk to me"

SDK = "How to use the API on iOS"



Mobile

Validic Mobile is a set of libraries that enable healthcare organizations to easily integrate Bluetooth Smart devices, Apple's HealthKit, Samsung's S Health, and VitalSnap into their existing iOS and Android mobile applications. Data acquired from Validic Mobile is then made available to clients via the Validic API.



Philips hue API

Full API Documentation

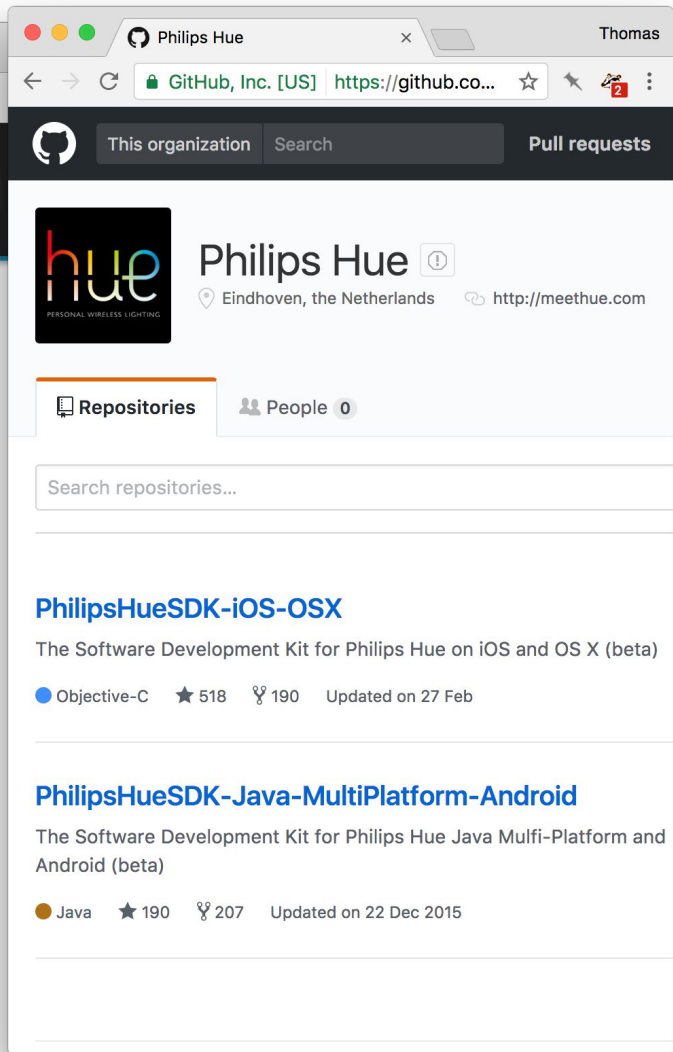
The full API documentation is only available to registered users. Please [login](#) or [register](#) to view the full API documentation and become a member of our exciting hue community. It only takes a few seconds.

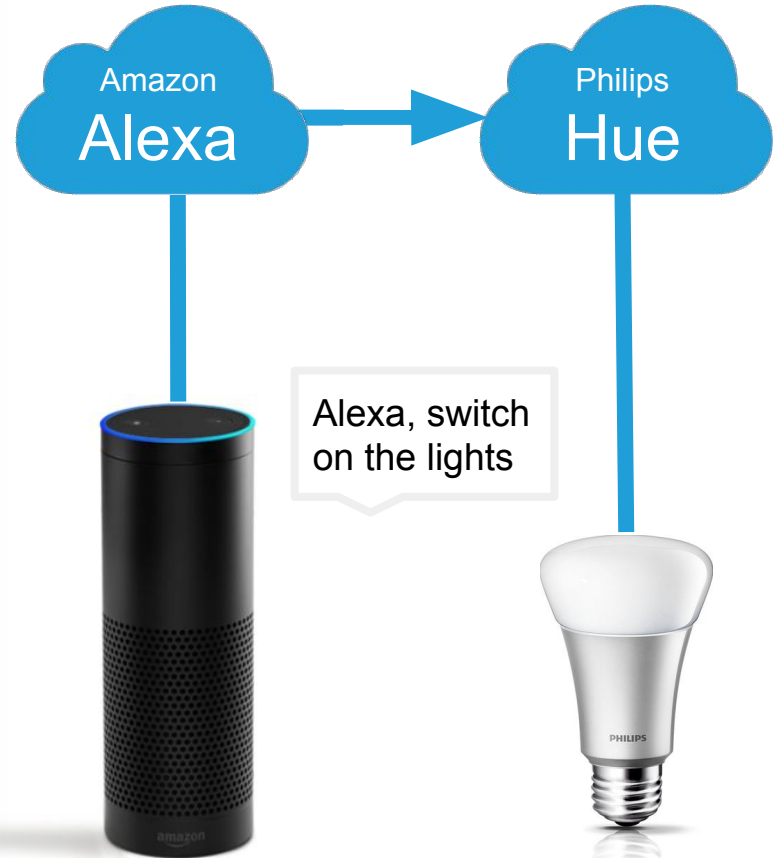
See what you can do

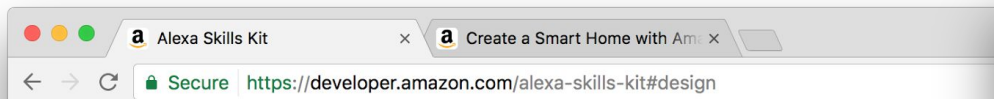
Your feedback following our hue launch was clear. You want to use light as you want it. Here we provide you some material to do so. The hue bridge has a powerful [RESTful](#) interface, which behaves like a simple web service. Use it as your tool. We hope this will help you to truly use light as you want it, by making new apps, websites and digital installations; integrating hue into something else or just playing around.

Getting started

We've started off by releasing the core parts of our bridge interface along with some easy to follow examples for how to use them. This should be enough to get you up and running controlling lights from your applications.







Apps & Games Alexa AWS Services & APIs Dev

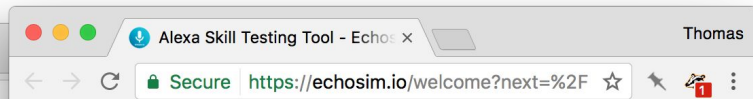
What is an Alexa skill?

Alexa is Amazon's voice service and the brain behind millions of devices including Amazon Echo. Alexa provides capabilities, or skills, that enable customers to create a more personalized experience. There are now [more than 10,000 skills](#) from companies like Starbucks, Uber, and Capital One as well as innovative designers and developers.

What is the Alexa Skills Kit?

With the Alexa Skills Kit (ASK), designers, developers, and brands can build engaging skills and reach millions of customers. ASK is a collection of self-service APIs, tools, documentation, and code samples that makes it fast and easy for you to add skills to Alexa. With ASK, you can leverage Amazon's knowledge and pioneering work in the field of voice design.

You can build and host most skills for free using Amazon Web Services (AWS). You can also apply to receive [AWS promotional credits](#).



Echosim.io

COMMUNITY EDITION BETA

Alexa Skill Testing Tool

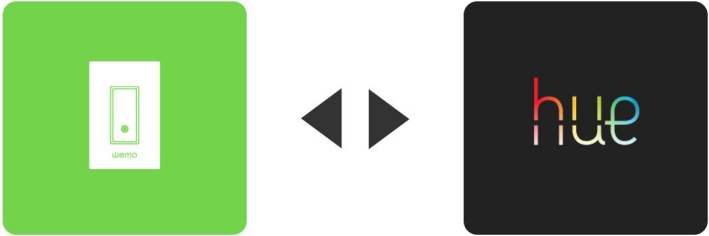
An Amazon account is required. Log in with Amazon.




Connect WeMo Light Switch to x Thomas

Secure https://ifttt.com/connect/wemo_light_switch/hue


IFTTT



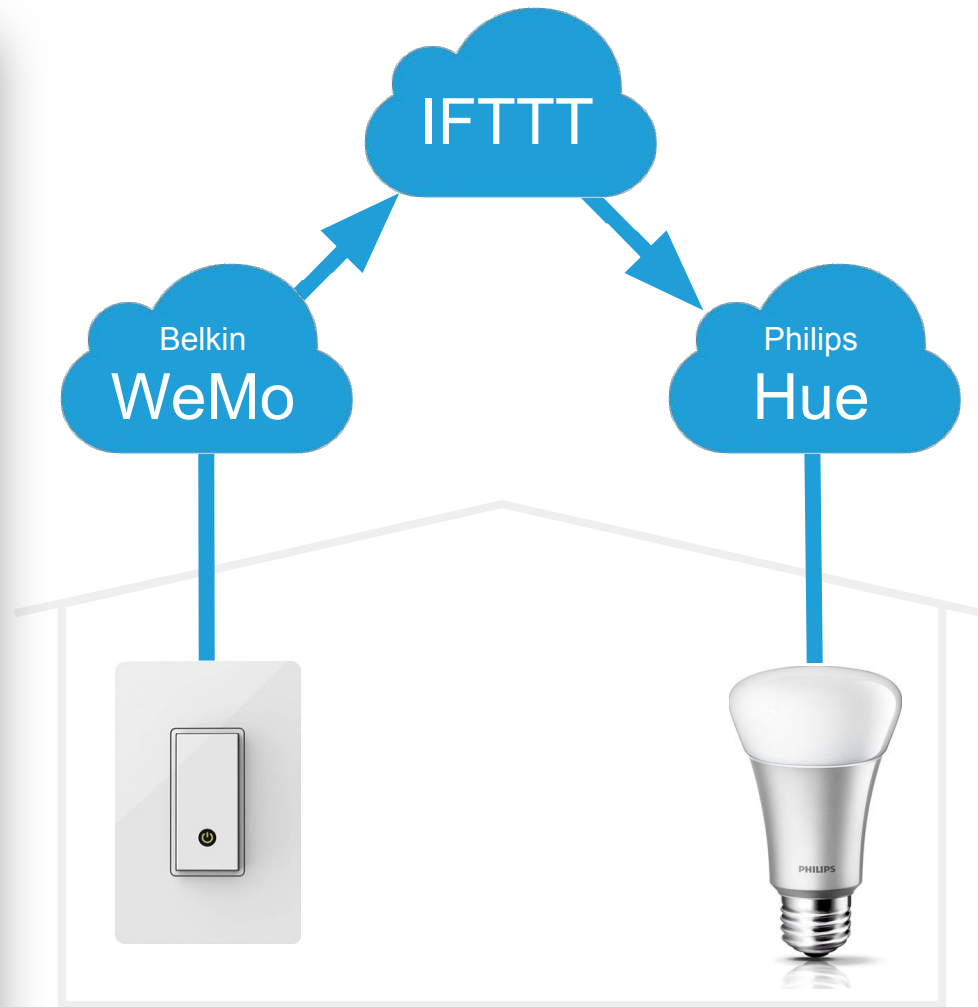
Connect WeMo Light Switch to Philips Hue



Change the lights to a random color when I long-press the light switch

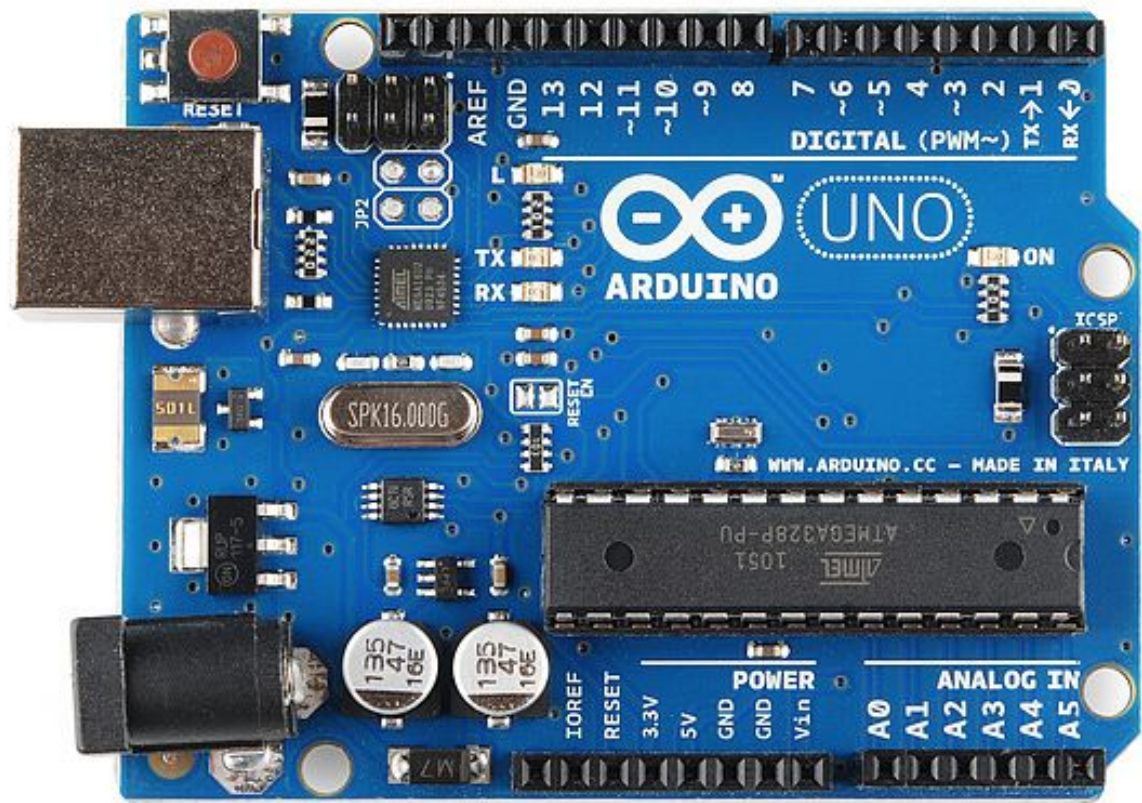


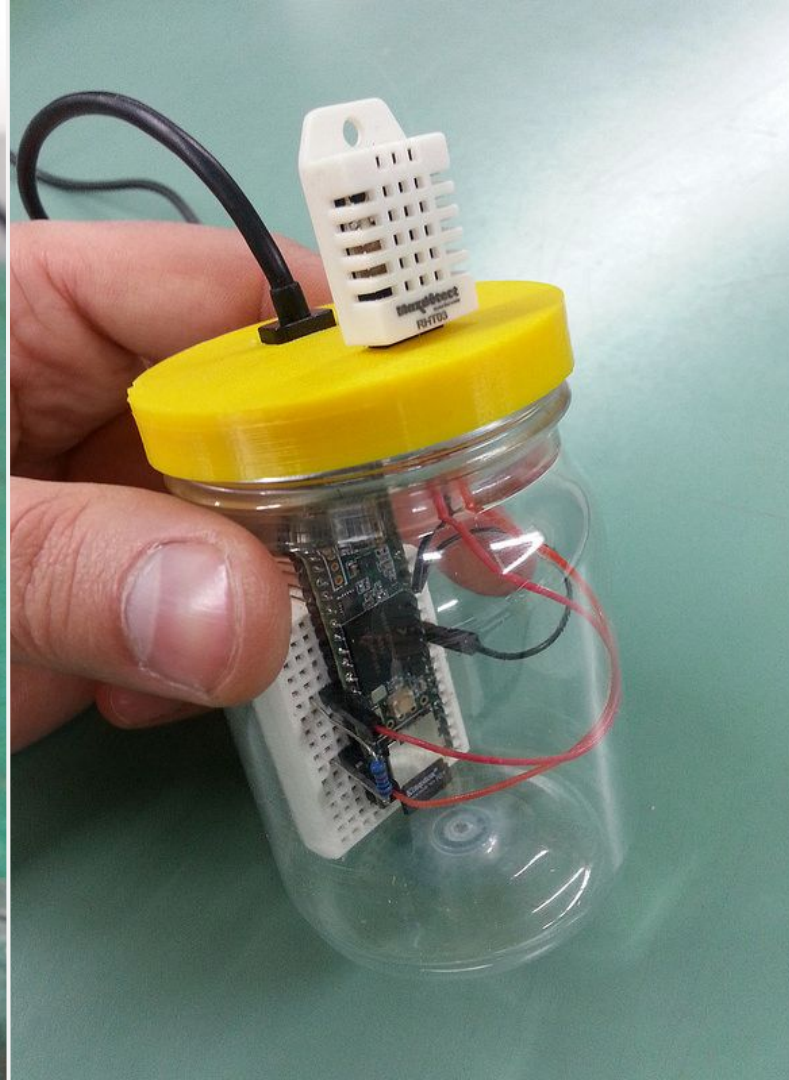
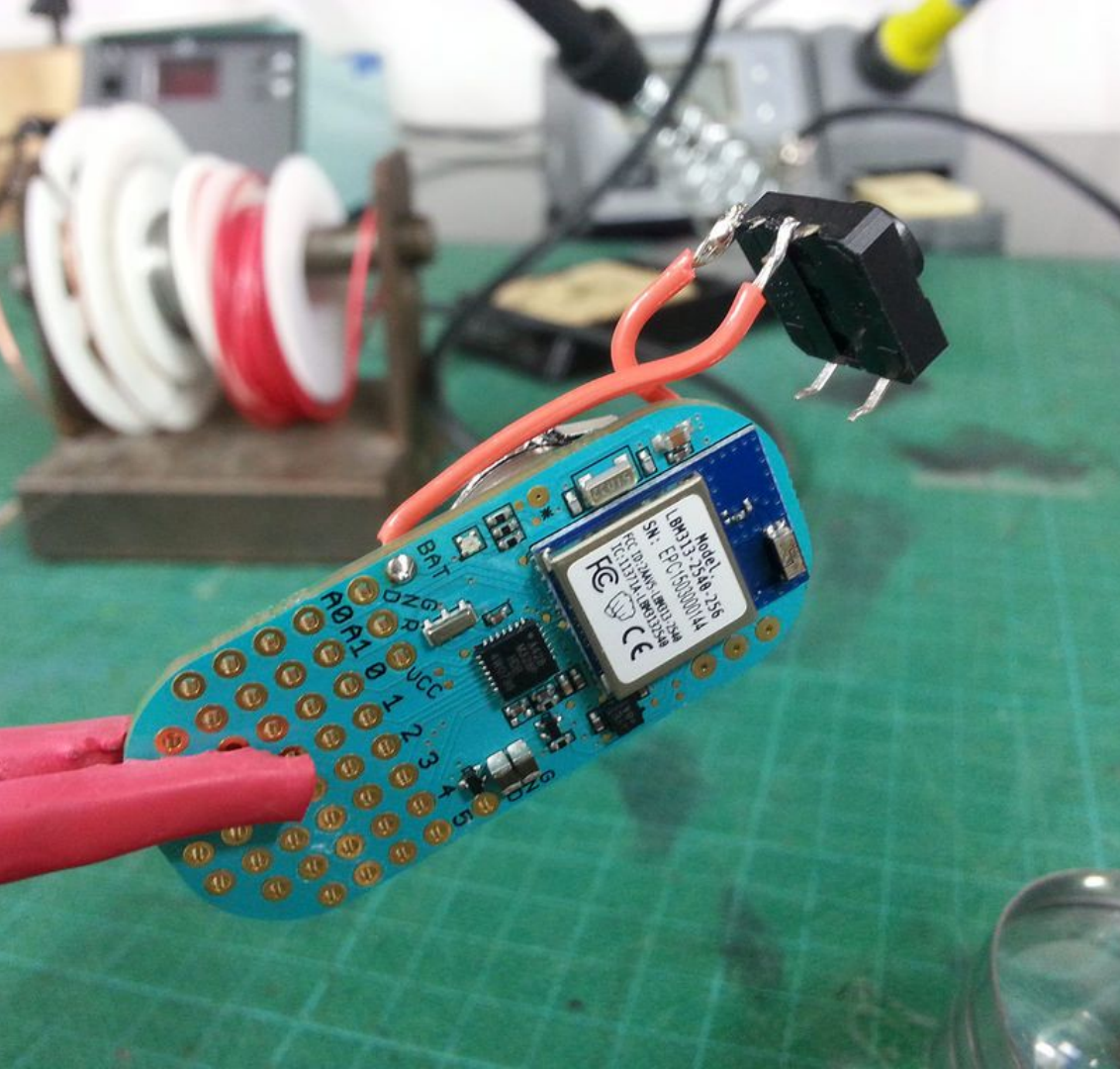
Scene: Long press on WeMo switch sets Hue lamp to a warm white color

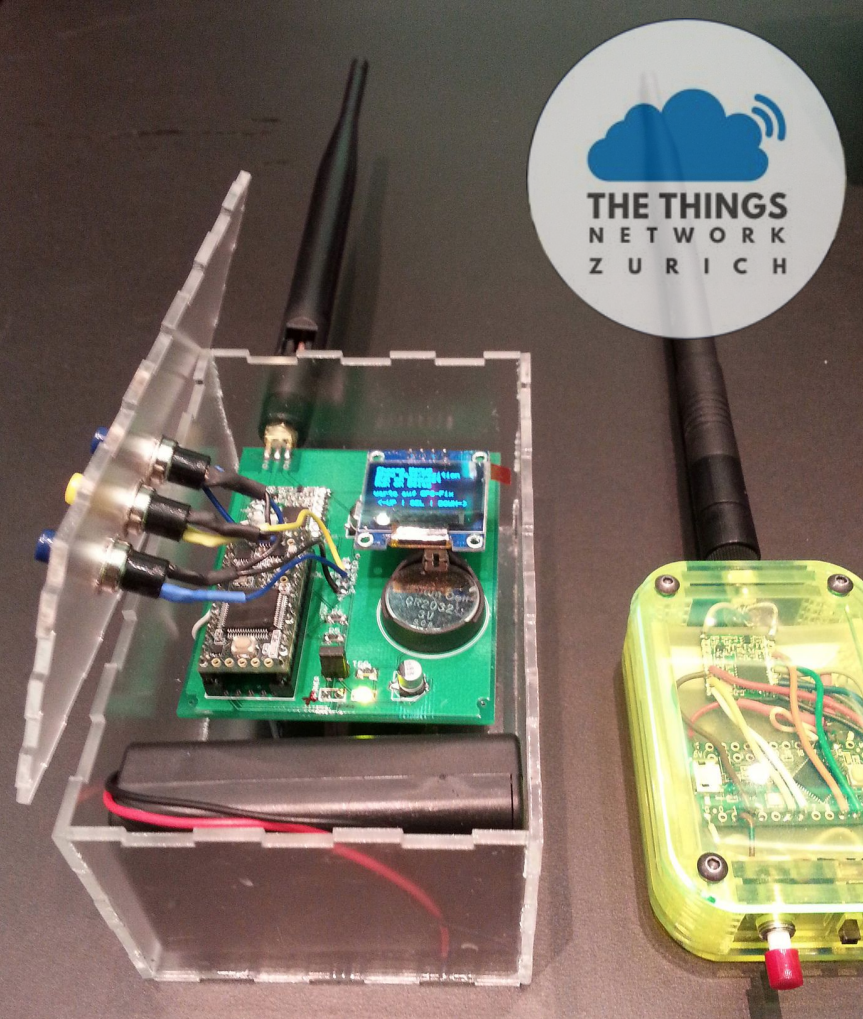
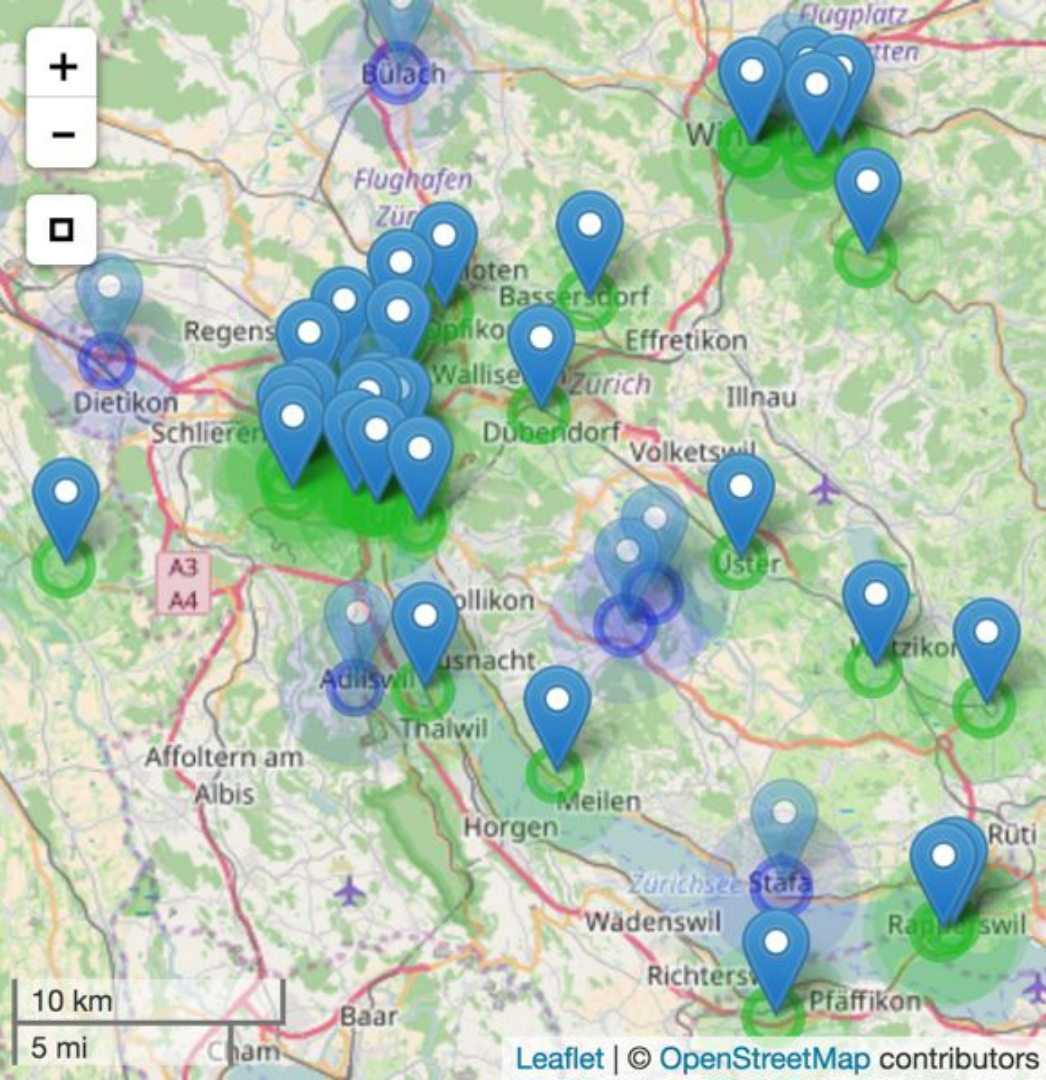


Wie startet man konkret mit IoT?

Prototyping



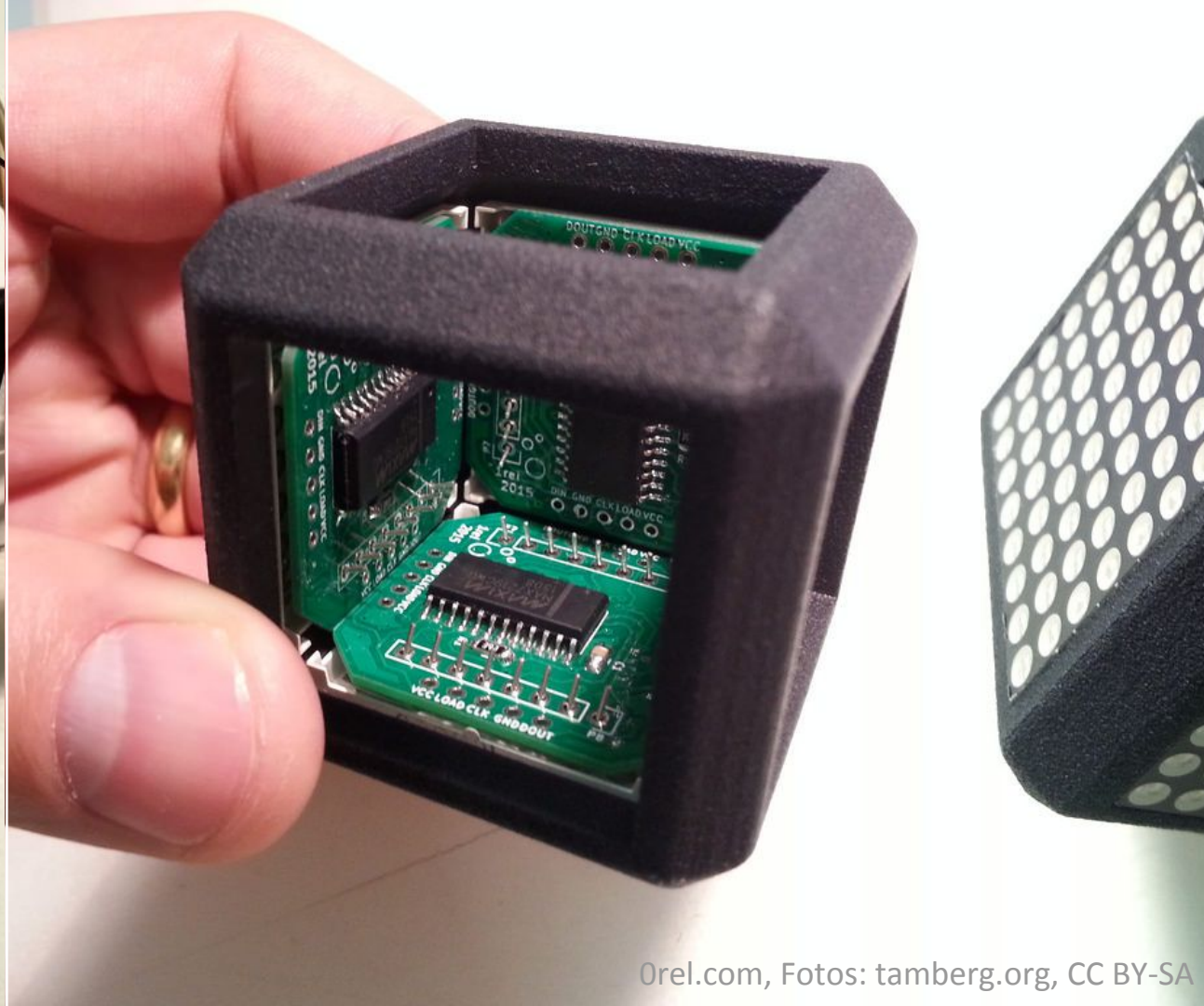
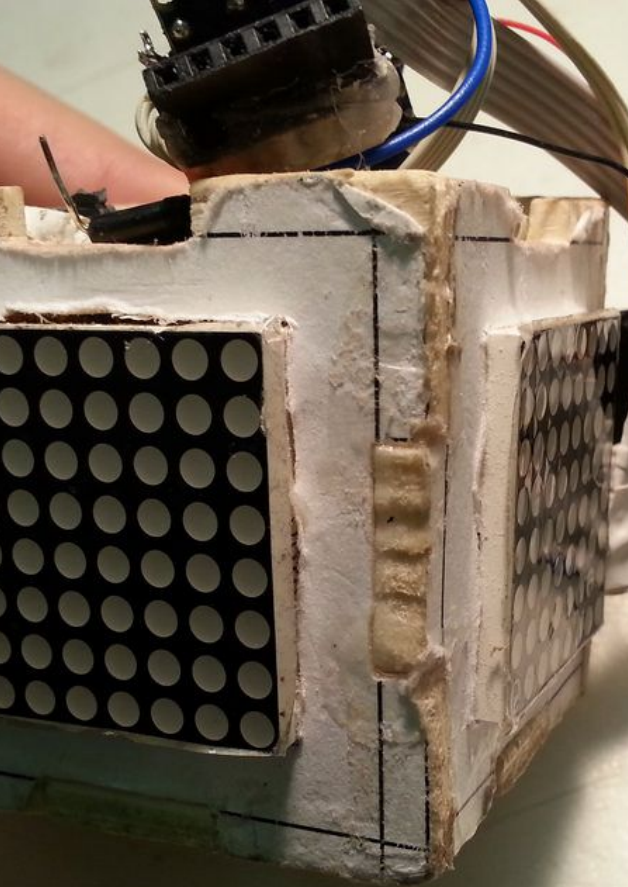




L: @ursmii, R: Funlab.ch, Foto: tamberg.org, CC BY-SA



FABLAB
ZÜRICH





Bazaar

Recipe

Fusion

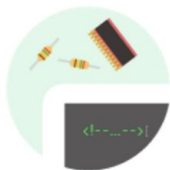
Propagate

Blog

Wiki

Propagate 1~10K

Seed propagate service is a turn-key service to facilitate makers from an idea to mass production. We provides service like prototyping, ODM, OEM, distribution to drop shipping.



Codesign & Prototype

ODM/ Prototyping /Open Parts Library recommendation



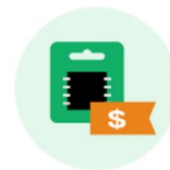
New product integration

Design for manufacture/Engineering introduction/Testing developing and introduction



Agile manufacture

Sourcing/OPL/Project management/Quality control

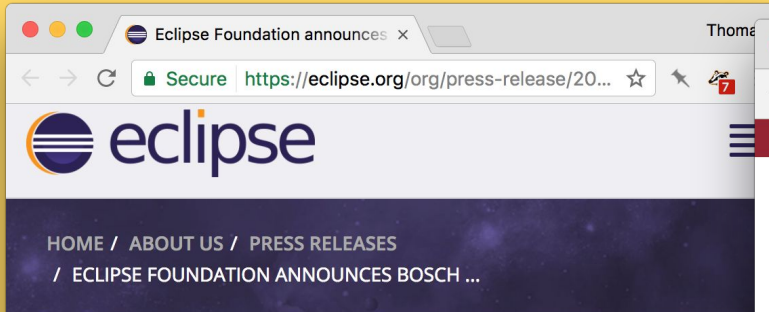


Maker-Friendly Supply chain

Sales on Bazaar/Banner promotion / Distributor/Drop shipping

Wie entstehen Ökosysteme?

Offenheit



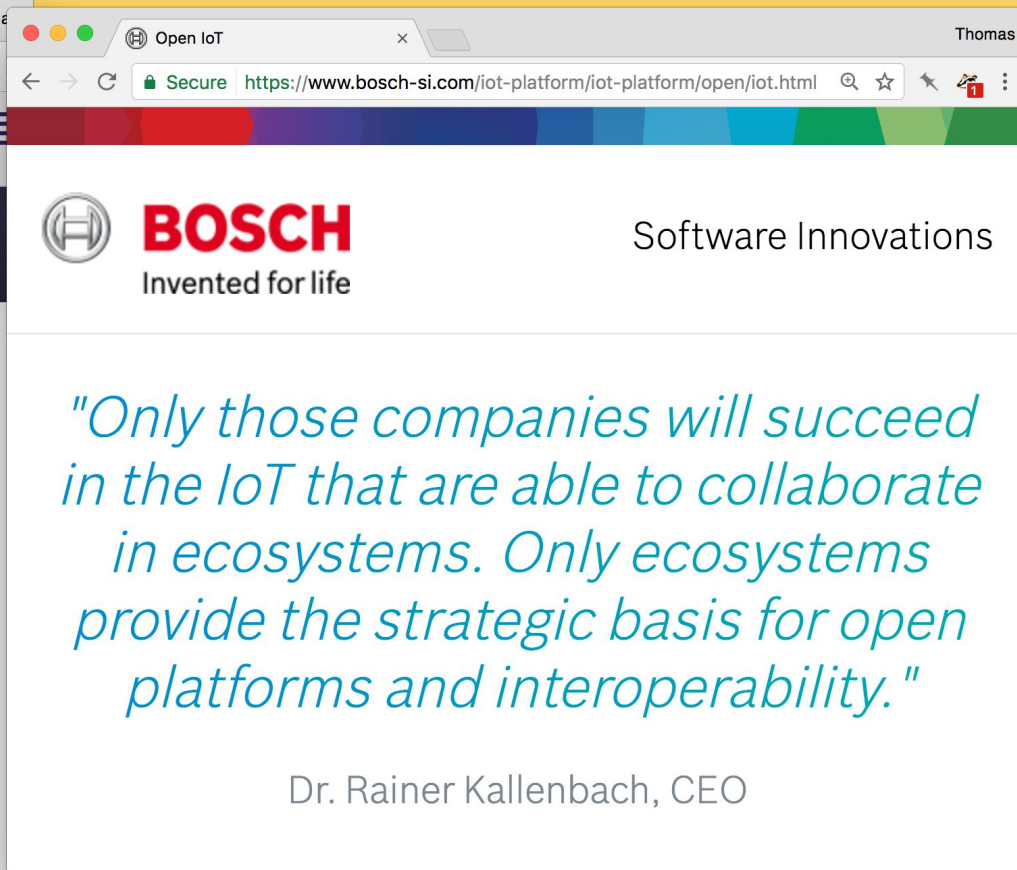
Eclipse Foundation announces Bosch as a strategic member

Ludwigsburg, Germany – November 3, 2015 – The Eclipse Foundation is pleased to announce that Bosch has become a strategic member of the Eclipse Foundation. Bosch has been a long-term solutions member of the Eclipse Foundation and is actively participating in the Eclipse Automotive Working Group and the Eclipse Internet of Things (IoT) Working Group. As a new strategic member, Bosch will now have a representative on the Eclipse Board of Directors and will be leading a number of open source projects at Eclipse. More than 10,000 Bosch engineers use the Eclipse Integrated Development Environment (IDE).

Bosch is a €49 billion global industrial corporation that provides technology and services for industries such as Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The company is one of the largest suppliers of automotive components and is a leader in the emerging industrial IoT industry.

Bosch's involvement in the Eclipse community includes

- Participating in the Eclipse IoT and Eclipse Automotive Working Groups.
- Leading the Eclipse Vorto project, an IoT tool that allows for the creation and management of information models that describe IoT devices.





Our Vision

Smart Home adoption will only gain momentum if the different devices can be connected into over-arching use cases, but currently the market for Smart Home systems and IoT gadgets is heavily fragmented. While there are a couple of companies big enough to establish their own proprietary ecosystems, we believe that Open Source is the only viable option to provide truly open platforms without vendor lock-ins.

Many devices, one Home Base – it's app to you.

Easy operation via radio frequency and the Internet

Control and monitor devices from different brands with apps via Internet.

Connect all compatible devices from different brands via radio frequency.

Where it all comes together: the QIVICON Home Base.

QIVICON lets you bring together multiple Smart Home devices from different brands on one single platform. Not only can you easily and reliably control, monitor and automate the functions of different brands and devices, you can even combine them. Quick and easy via Smartphone, tablet or PC.

Choose an open source license

Which of the following best describes your situation?



I want it simple and permissive.

The **MIT License** is a permissive license that is short and to the point. It lets people do anything they want with your code as long as they provide attribution back to you and don't hold you liable.

jQuery, **.NET Core**, and



I'm concerned about patents.

The **Apache License 2.0** is a permissive license similar to the MIT License, but also provides an express grant of patent rights from contributors to users.

Android, **Apache**, and **Swift** use the Apache License 2.0.



I care about sharing improvements.

The **GNU GPLv3** is a copyleft license that requires anyone who distributes your code or a derivative work to make the source available under the same terms, and also provides an express grant of patent rights from contributors to users.



License Features

Your choices on this panel will update the other panels on this page.

Allow adaptations of your work to be shared?

☐ Yes ☐ No ☒ Yes, as long as others share alike

Allow commercial uses of your work?

☒ Yes ☐ No

Selected License

Attribution-ShareAlike 4.0 International





Daten öffentlich, frei verfügbar und nutzbar zu machen für mehr Transparenz, Innovation und Effizienz – das ist Open Data.

News

Manifest

Anlässe

Organisation

Vorstand

Mitglied werden

Kontakt

FR / DE

Suche



Opendata.ch ist die Schweizer Sektion der Open Knowledge Foundation. Wir entwickeln Positionen und Projekte und tragen sie in die Medien.

Öffnung von Daten als Rohstoff für digitale Gesellschaft & Wirtschaft

murielstaub | 22. Mrz 2017 | in Allgemein, Bern, Daten, National | 0 Comments

Der Bundesrat hat an seiner heutigen Sitzung übergeordnete Ziele bzgl. seiner Datenpolitik definiert und die Bundesverwaltung beauftragt, erste Eckwerte einer Datenpolitik zu entwerfen.

Im Rahmen einer Aussprache hat der Bundesrat folgende übergeordnete Ziele für eine kohärente und zukunftsorientierte Datenpolitik der Schweiz definiert: Förderung der Standortattraktivität für die Wertschöpfung durch Daten in der Schweiz, Schaffung von modernen Rechtsgrundlagen für den Umgang mit Daten, Öffnung von Datenbeständen als Rohstoff für die digitale Gesellschaft und Wirtschaft. Die Medienmitteilung steht [hier](#) zur Verfügung.

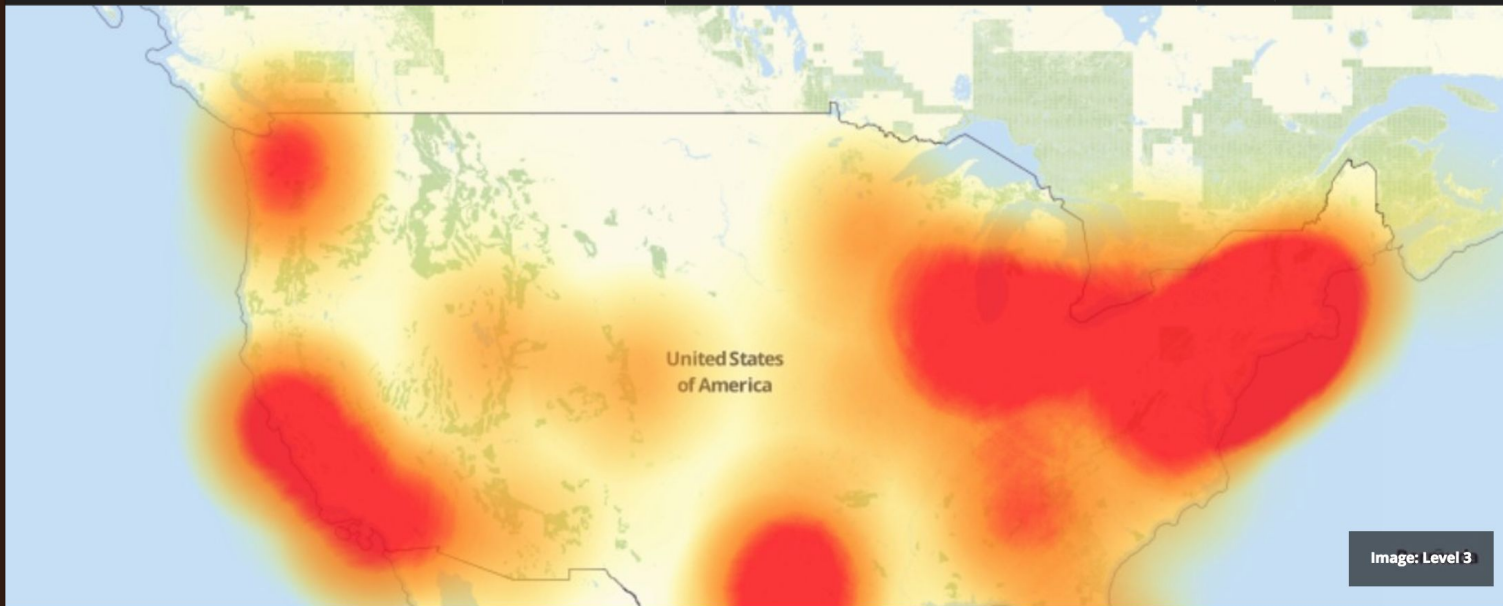
Wie bleiben Daten sicher?

Security

MOTHERBOARD

Watch ▾

Sections ▾



Blame the Internet of Things for Destroying the Internet Today

October 21, 2016 // 04:35 PM EST



Written by
**LORENZO FRANCESCHI-
BICCHIERAI**
STAFF WRITER





PostEverything

Your WiFi-connected thermostat can take down the whole Internet. We need new regulations.

The government has to get involved in the "Internet of Things."



By Bruce Schneier November 3 Follow @schneierblog

Bruce Schneier is a security technologist and a lecturer at the Kennedy School of Government at Harvard University. His latest book is "Data and Goliath: The Hidden Battles to Collect Your Data and Control Your World."



Jeremiah Grossman ✓
@jeremiahg



Follow

As Bruce Schneier recently explained about IoT-device security, "The market can't fix this because neither the buyer nor the seller cares."

RETWEETS

972

LIKES

867



11:08 PM - 21 Oct 2016



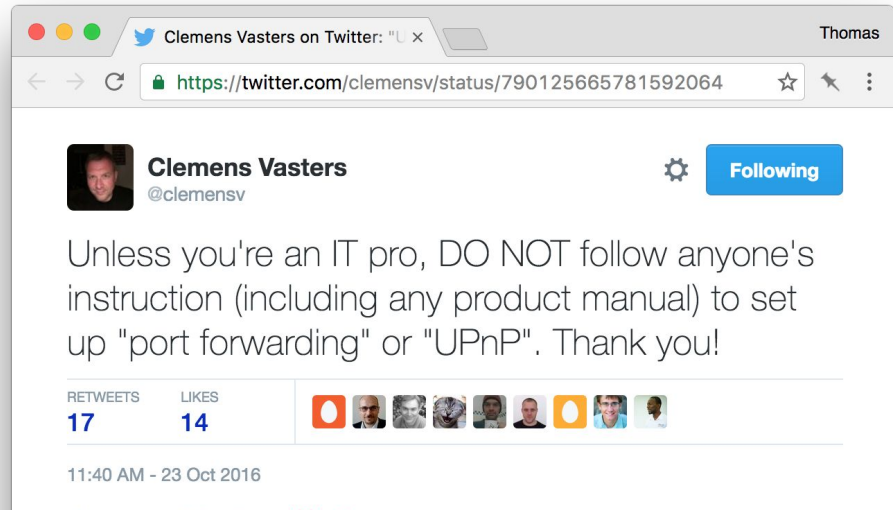
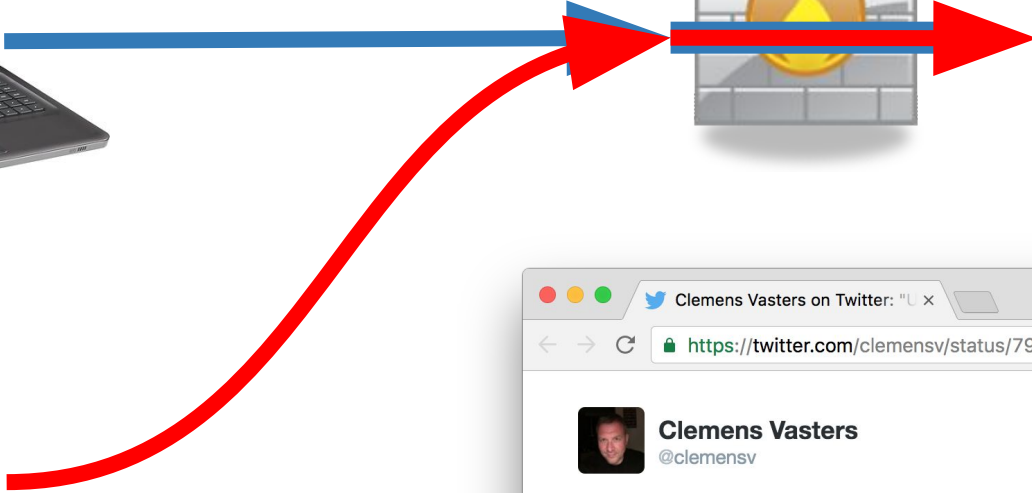
972



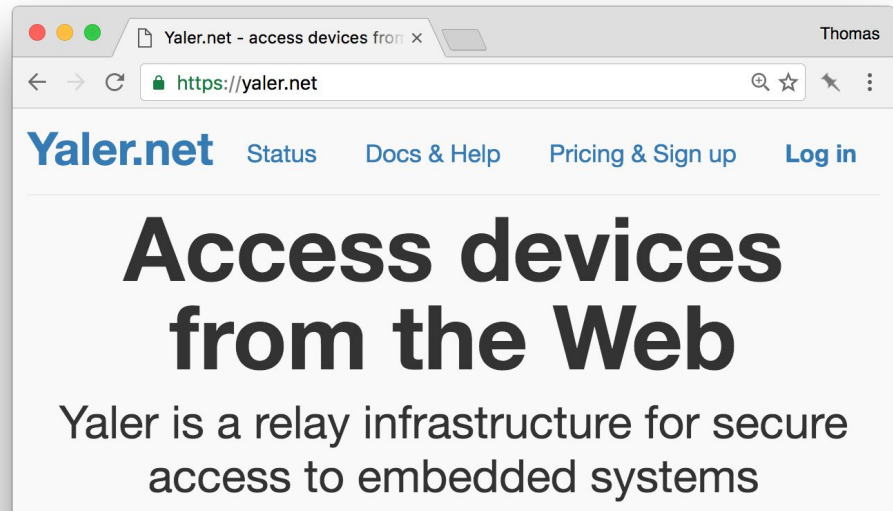
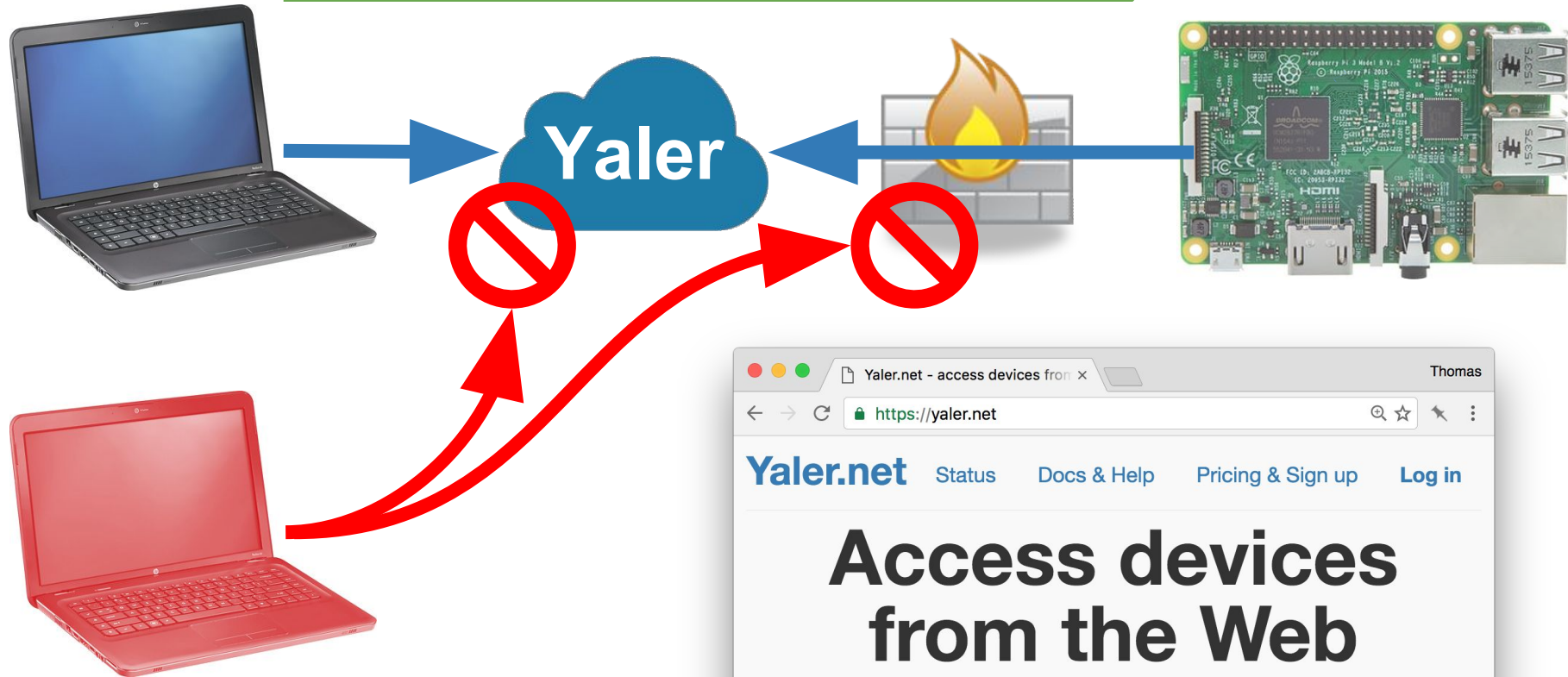
867



Fernzugriff via Port Forwarding



Sicherer Fernzugriff via Relay



openHAB 2 - Empowering the smart home

docs.openhab.org/concepts/discovery.html#inbox

openHAB

empowering the smart home

Thing Discovery

Many devices, technologies and systems can be automatically discovered on the network or browsed through some API. It therefore makes a lot of sense to use these features for a smart home solution.

In Eclipse SmartHome bindings therefore implement *Discovery Services* for things, which provide *Discovery Results*. All *Discovery Results* are regarded as suggestions to the user and are put into the *inbox*.

Inbox ↗

The inbox holds a list of all discovered things (**DiscoveryResult**) from all active discovery services. A discovery result represents a discovered thing of a specific thing type, that could be instantiated as a thing. The result usually contains properties that identify the discovered things further like IP address or a serial number. Each discovery result also has a timestamp when it was added to or updated in the inbox and it may also contain a time to live, indicating the time after which it is be automatically removed from the inbox.

picture_18.jpg (1122×704)

docs.openhab.org/tutorials/beginner/images/picture_18.jpg

openHAB

empowering the smart home

Control

Inbox 12

Configuration

Add-ons

Preferences

Configure Z-Wave

✓

Name

Z-Wave Serial C

Thing ID

6e308949

Location

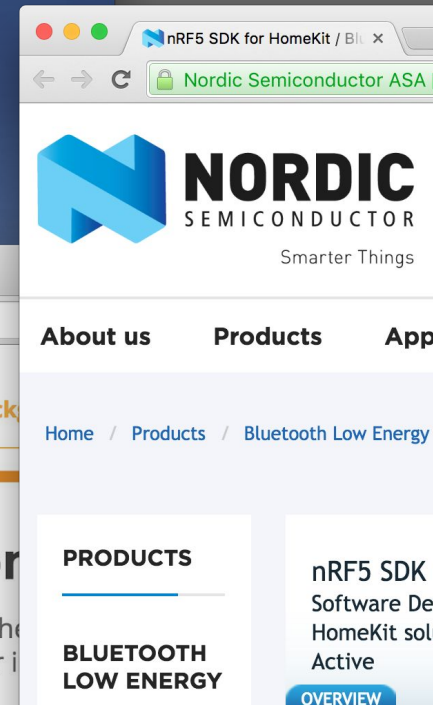
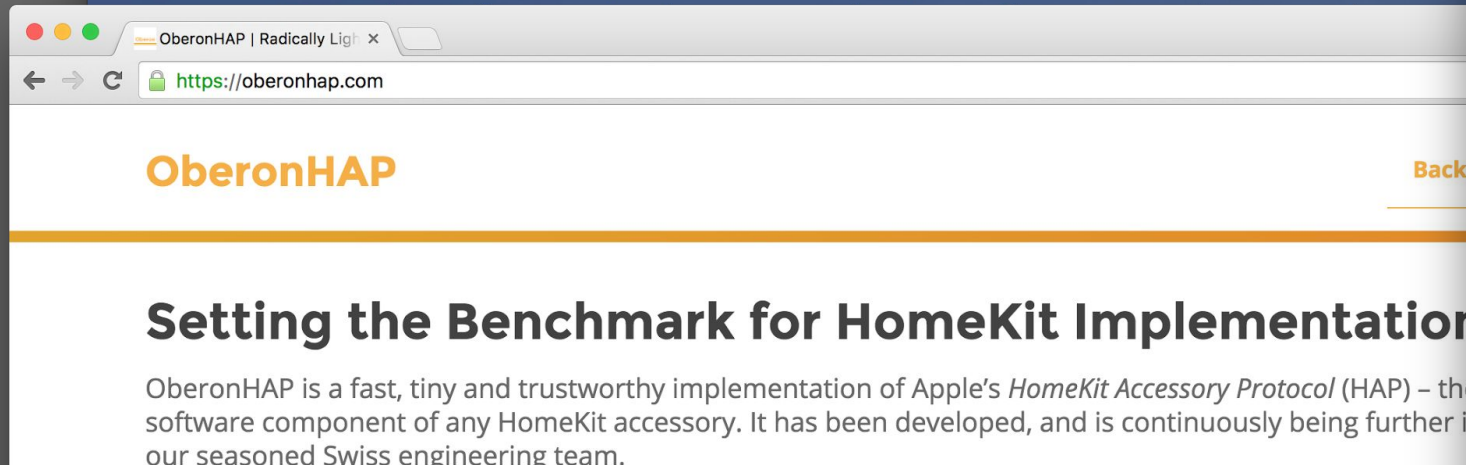
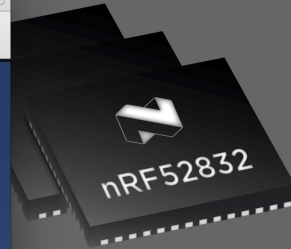
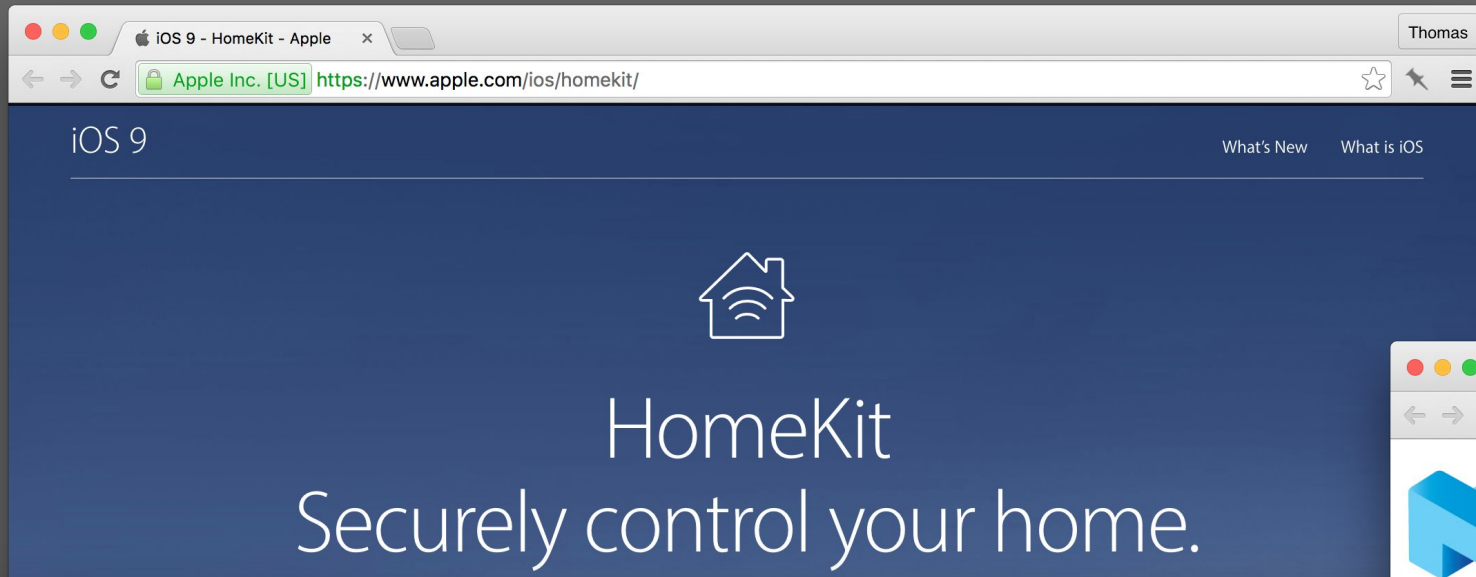
Configura

Configure param

Port Configuratio

Serial Port

/dev/ttyACM0



Wer sieht meine Daten?

Privacy


Introducing Echo Look - Hands-free camera and style assistant

HANDS-FREE CAMERA AND STYLE ASSISTANT

With Echo Look, you can take full-length photos of your daily look using just your voice. The built-in LED lighting and depth-sensing camera let you blur the background to make your outfits pop, giving you clean, shareable photos. Get a live view in the Echo Look app or ask Alexa to take a short video so you can see yourself from every angle. View recommendations based on your daily look and use Style Check for a second opinion on what looks best. And, because Alexa is built in the cloud, she's always getting smarter—and so will Echo Look.

"Alexa, take a picture."

"Alexa, take a video."



Zeynep Tufekci on Twitter: "With this data, Amazon won't be able to just sell you clothes or judge you. It could analyze if you're depressed or pregnant and much else."

Zeynep Tufekci @zeynep

Following

With this data, Amazon won't be able to just sell you clothes or judge you. It could analyze if you're depressed or pregnant and much else.





Cory Doctorow: why personal

Thomas

← → ↺

Secure <https://www.theguardian.com/technology/2008/jan/15/data.security>

🔍 ☆ ⚡ 10 ⋮

Personal data is as hot as nuclear waste

Cory Doctorow

We should treat personal electronic data with the same care and respect as weapons-grade plutonium - it is dangerous, long-lasting and once it has leaked there's no getting it back

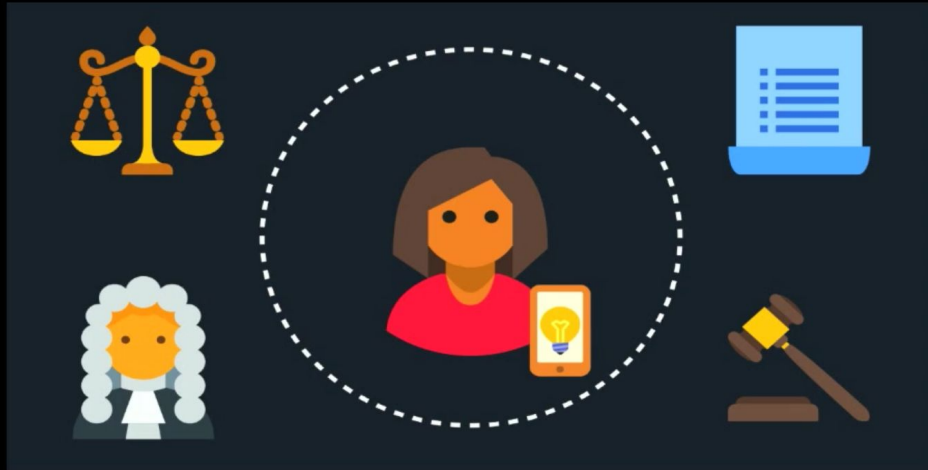
CC

⚙️ HD

⛶



Aral Balkan
The Matrix, Inverted



The Matrix, Inverted

from Øredev Conference **PRO** 5 days ago | more



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More from Øredev Conference

☐ Autoplay next video



The Matrix, Inverted



CITIZEN OWNED

Copies of personal data are stored in citizen-owned and citizen-controlled MIDATA cooperatives. Members profit from data analysis, visualization and interpretation tools. In this way, members will increasingly be able to take control over their own health.



NOT FOR PROFIT

In the same way that blood banks and citizen science platforms work best when no financial incentives are offered, MIDATA cooperatives are not-for-profit. Revenues will be reinvested into services on the platform and into research projects for the benefit of society.



OPEN SOURCE

MIDATA cooperatives offer an innovation platform (APIs) for third parties by providing a secure sandbox in which to develop data analytics and visualization services on members' data without having to establish their own data storage environment.



TRANSPARENT

Transparency is ensured by the fact that the governance principles of MIDATA cooperatives are public. Members are informed and can participate in decision making processes. They can also withdraw their personal data at anytime.



SECURE

Data are multiply encrypted and only the members possess the key to their data. Every data access is logged. Secure citizen-controlled data access across different national cooperatives will be established to permit global research projects and clinical trials.



REGIONAL

The MIDATA model enables the construction of regional/national cooperatives which, by a set of common rules, permit global research projects to be set up and carried out in a fair and democratic manner.

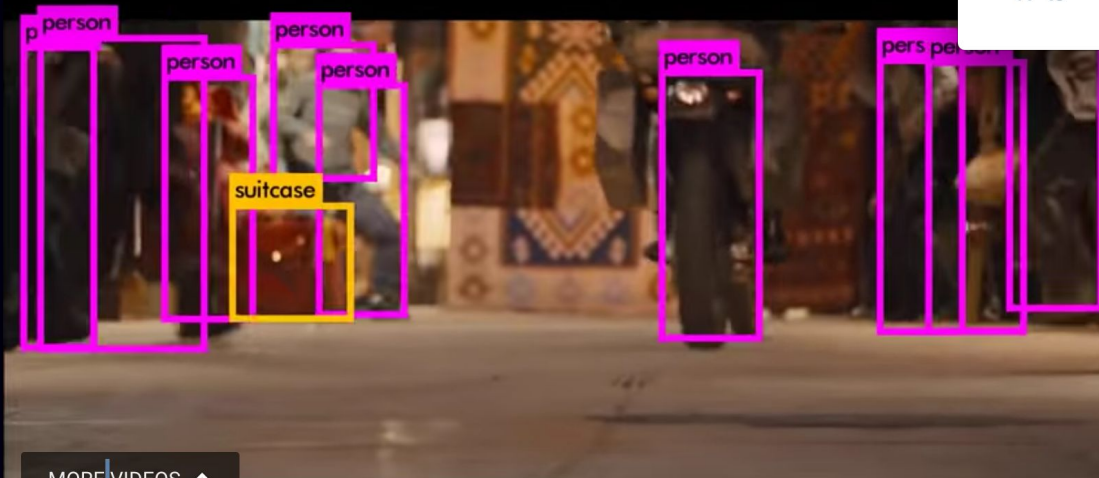
Wie geht's weiter?

Zukunft

YOLO: Real-Time Object Detection

You only look once (YOLO) is a state-of-the-art, real-time object detection system. On a Titan X it processes images at 40-90 FPS and has a mAP of 78.6% and a mAP of 44.0% on COCO test-dev.

YOLO v2



MORE VIDEOS ^



Benedict Evans ✓

@BenedictEvans

Following

We're going from computers with cameras, that take photos, to computers with eyes, that can see

RETWEETS

193

LIKES

322



8:05 PM - 1 Aug 2016

19

193

322



AutoX Has Built a Self-Driving Car That Navigates with a Bunch of \$50 Webcams

Startup wants to make autonomous vehicles cheap enough for everyone to use.

by Rachel Metz March 28, 2017



While companies like Uber and Google build self-driving cars replete with pricey sensors, Jianxiong Xiao is doing the same thing with some \$50 webcams

(Permit holders are listed by the date the permit was issued)

- Volkswagen Group of America
- Mercedes Benz
- Google
- Delphi Automotive
- Tesla Motors
- Bosch
- Nissan
- GM Cruise LLC
- BMW
- Honda
- Ford
- Zoox Inc.
- Drive.ai Inc.
- Faraday & Future Inc.
- Baidu USA LLC
- Wheego Electric Cars Inc.
- Valeo North America, Inc.
- NextEV USA, Inc.
- Telenav, Inc.
- NVIDIA Corporation
- AutoX Technologies Inc
- Subaru
- Udacity, Inc
- Navya Inc.
- Renovo Motors Inc
- UATC LLC (Uber)
- PlusAi Inc
- Nuro, Inc
- CarOne LLC
- Apple Inc.

- Autonomous Vehicle Tester Program
- Autonomous Vehicle Deployment Permit – Coming Soon
- Dealer
- Dismantler
- Distributor
- Driving School
 - Driving School Owner
 - Driving School Operator
 - Driving Instructor
 - Independent Driving Instructor
- Employer Testing Program
- Ignition Interlock Device Program
- Lessor-Retailer
- Manufacturer
- Mature Driver Program
- Registration Service
- Remanufacturer
- Representative
- Salesperson
- Traffic Violator School
 - Traffic Violator

Alex J. Champandard on Twitter x Thomas

Secure <https://twitter.com/alexjc/status/7993337379...>

 **Alex J. Champandard**
@alexjc Follow

Lip Reading Sentences in the Wild
arxiv.org/abs/1611.05358 Crazy results: ~50% error rate vs. ~80% human experts. Examples from BBC News:




RETWEETS 160 LIKES 219

8:29 PM - 17 Nov 2016

[1611.05358] Lip Reading Ser x Thomas

Secure <https://arxiv.org/abs/1611.05358>

 Cornell University Library We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > cs > arXiv:1611.05358

side arXiv All papers Broaden your search using Semantic Scholar

Computer Science > Computer Vision and Pattern Recognition

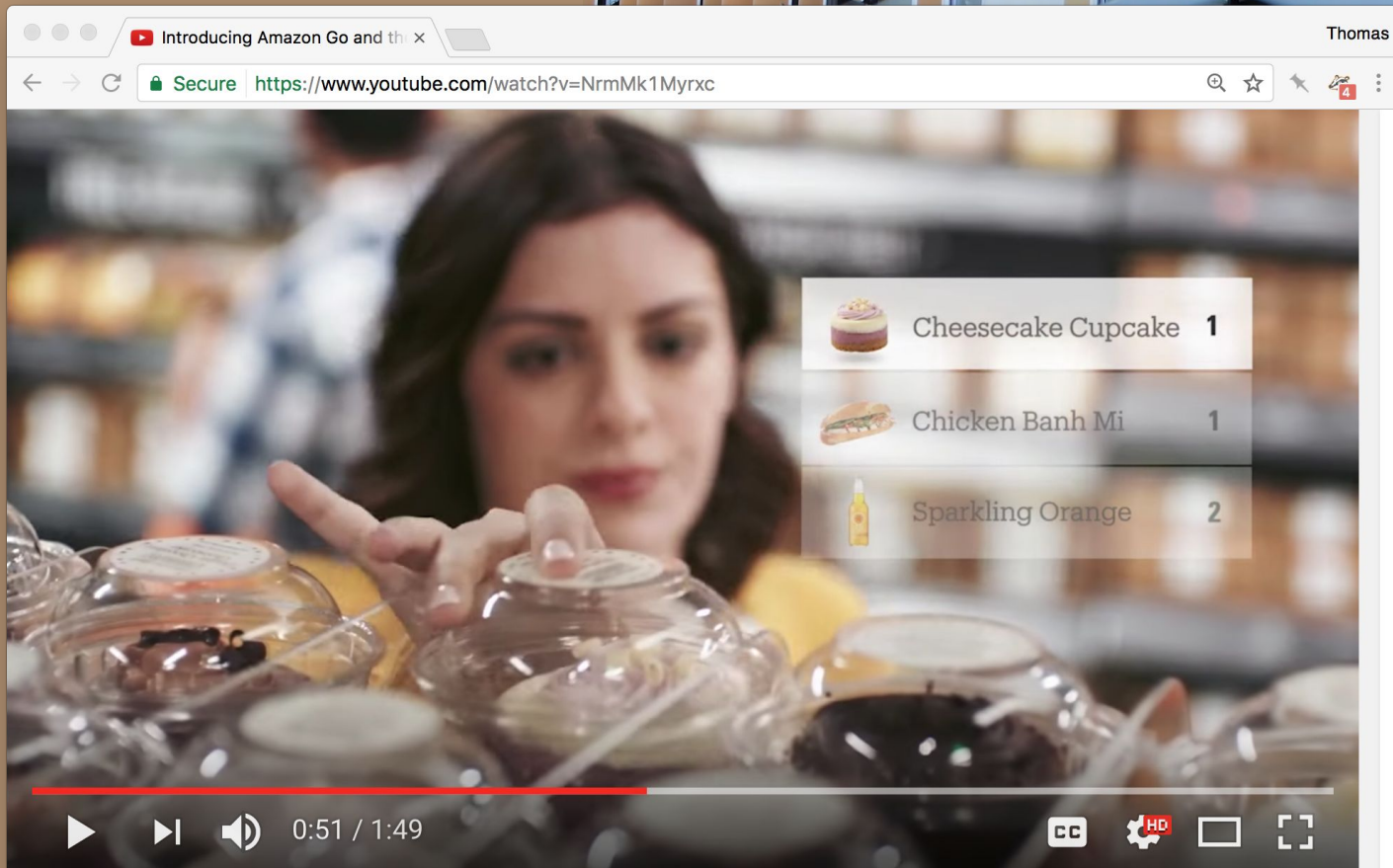
Lip Reading Sentences in the Wild

Joon Son Chung, Andrew Senior, Oriol Vinyals, Andrew Zisserman

(Submitted on 16 Nov 2016 (v1), last revised 30 Jan 2017 (this version, v2))

The goal of this work is to recognise phrases and sentences being spoken by a talking face, with or without the audio. Unlike previous works that have focussed on recognising a limited number of words or phrases, we tackle lip reading as an open-world problem – unconstrained natural language sentences, and in the wild videos.

Our key contributions are: (1) a 'Watch, Listen, Attend and Spell' (WLAS) network that learns to transcribe videos of mouth motion to characters; (2) a curriculum learning strategy to accelerate training and to reduce overfitting; (3) a 'Lip Reading Sentences' (LRS) dataset for visual speech recognition, consisting of over 100,000 natural sentences from British television.



Introducing Amazon Go and the world's most advanced shopping technology




The Verge on Twitter: "Amazon" x Thomas

Secure <https://twitter.com/verge/status/848499760218...>

The Verge @verge

Follow

Amazon's cashier-free store reportedly breaks if more than 20 people are in it
theverge.com/2017/3/27/1507...



RETWEETS 283 LIKES 398

1:38 PM - 2 Apr 2017

Internet of Shit on Twitter: "uuu" x Thomas

Secure <https://twitter.com/internetofshit/status/849667...>

Internet of Shit @internetofshit

Following

uuuhhhh yeah thanks



Philips Hue
Version 2.10.0, 68.2 MB
5 Apr 2017

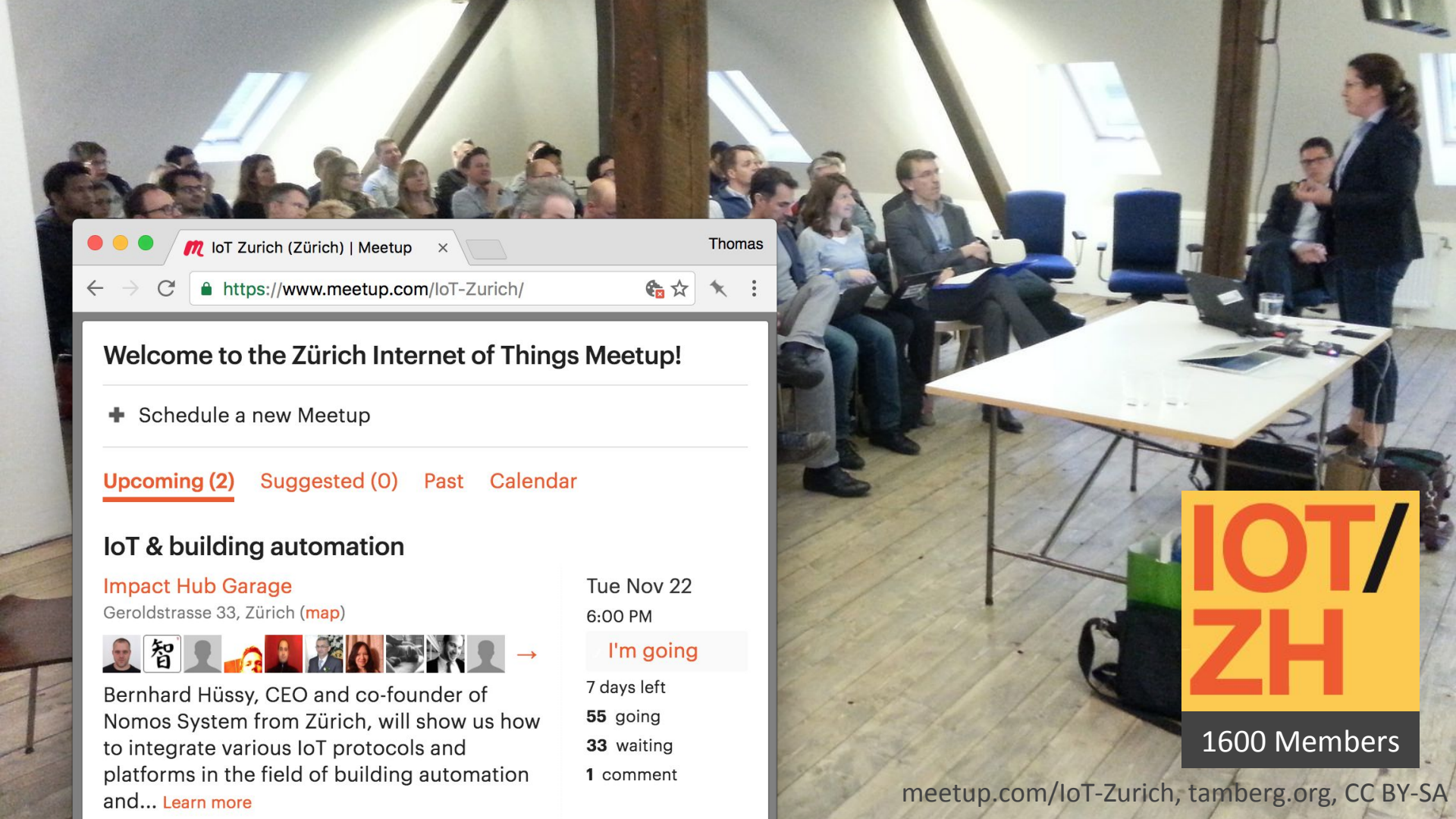
OPEN

New stuff:
-Didn't like to update your Hue system while sitting in the dark? You can now postpone software updates and first turn on your lights.
-Added "What's new" and "Hue labs" to the "Explore" tab

RETWEETS 523 LIKES 1,116

6:58 PM - 5 Apr 2017





IoT Zurich (Zürich) | Meetup

Thomas

←

→

↻

https://www.meetup.com/IoT-Zurich/

☆

✳

⋮

Welcome to the Zürich Internet of Things Meetup!

+

Schedule a new Meetup

Upcoming (2)

Suggested (0)

Past

Calendar

IoT & building automation

Impact Hub Garage

Geroldstrasse 33, Zürich (map)

→

Bernhard Hüsey, CEO and co-founder of Nomos System from Zürich, will show us how to integrate various IoT protocols and platforms in the field of building automation and... [Learn more](#)

Tue Nov 22

6:00 PM

I'm going

7 days left

55 going

33 waiting

1 comment

IOT/
ZH

1600 Members



Spectro-Pointer



IoT für KMU

thomas.amberg@yaler.net

twitter.com/tamberg

Slides: www.tamberg.org →

