

Web das Coisas

Reinaldo Ferraz @reinaldoferraz





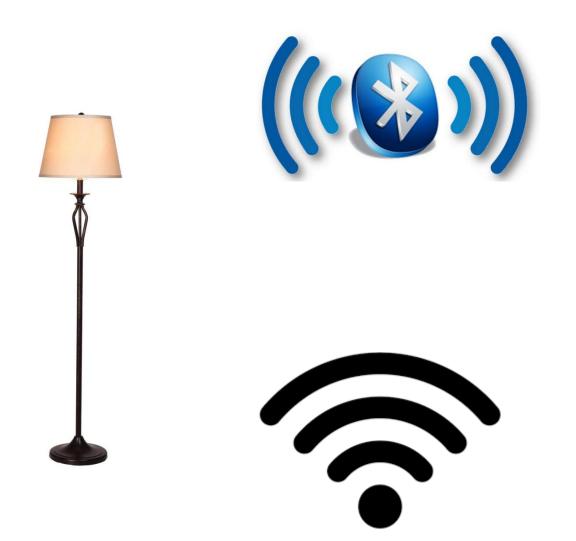




MACHINE TO MACHINE

VS

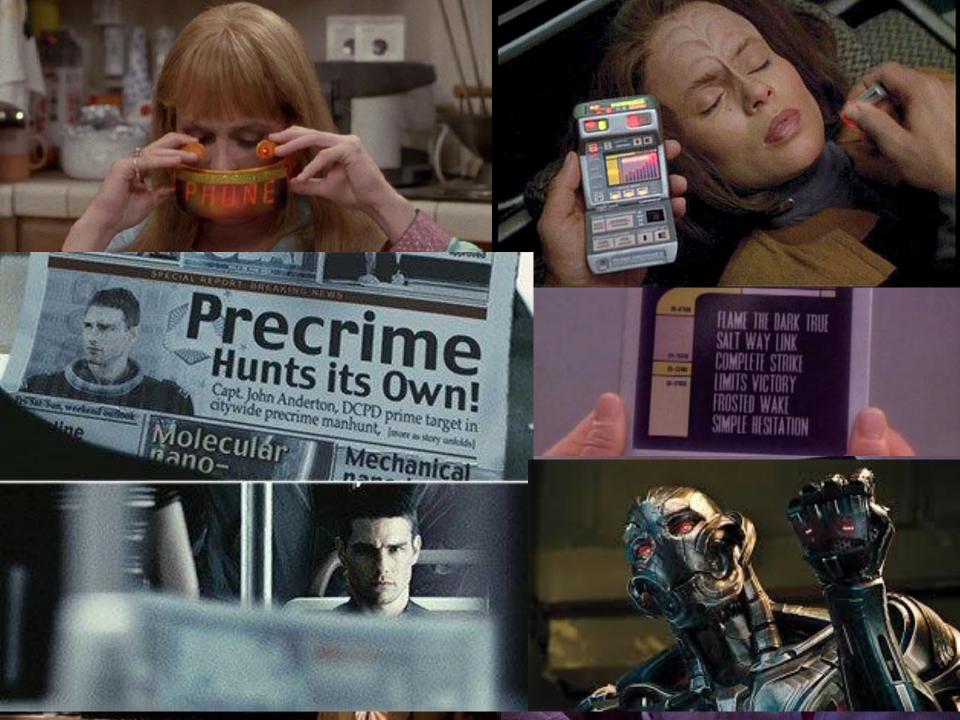




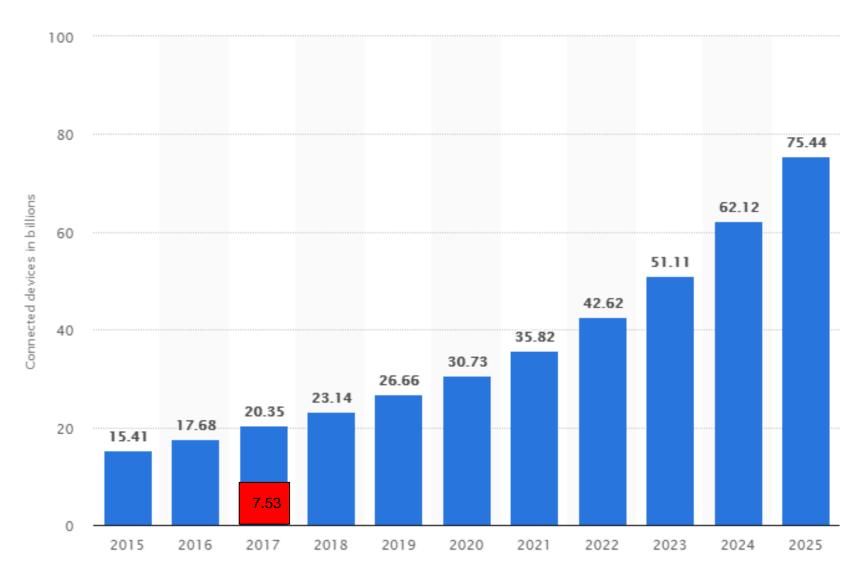


A Internet das Coisas tem um enorme potencial.

"You won't need to hunt anxiously for your missing shoes in the morning, you'll Google them." Bruce Sterling, 'Shaping Things'



Internet of Things (IoT): number of connected devices worldwide from 2015 to 2025 (in billions)



Fonte: https://www.statista.com/statistics/471264/iot-number-of-connected-devices-worldwide/

Podemos conectar tudo a Internet

"Because We Can!"

Sheldon Cooper, Leonard Hofstadter, Raj Koothrappali and Howard Joel Wolowitz https://www.youtube.com/watch?v=BVd-rYIqSy8

























Principles Submit

February 06

Who's the most proficient crapper in your office?



Throne Master

The time has come. Push to play.

Gamify your daily motions. Advanced on-board analytics allows you to compare and compete with your family or colleagues, showing who makes the biggest wins in the smallest room.

Contribution from @tomcoates

f in 🎔



Samsung's new fridge will ping your phone if you leave the door open



why tf doesn't it just close the door itself if it's so smart

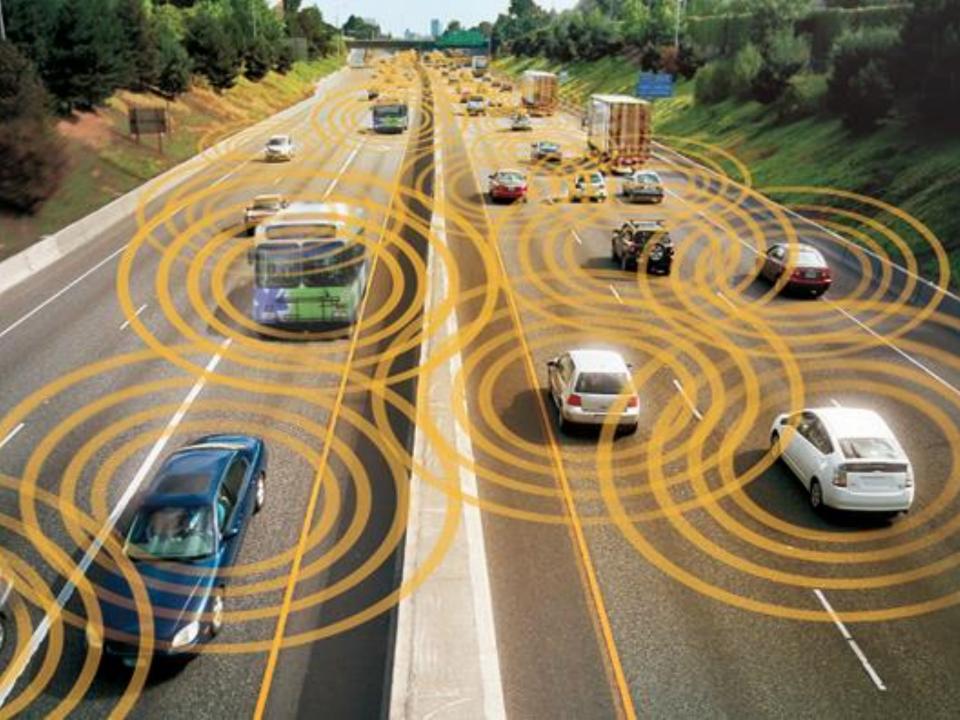
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72,766 likes shitheadsteve useless View all 706 comments 2 DAYS AGO

Mas isso não é loT, e sim loS (Internet of Sensors)

"Leve o casaco porque vai esfriar!" Sua geladeira.



Big data vs Small Data

"Forget Big Data – Small Data Is Driving The Internet Of Things" Mike Travis, Forbes.







IoT Technologies

Hypertext Transfer Protocol (HTTP) may be used for powered devices with a wired network connection or support for WiFi. HTTP is often used in conjunction with the Representational state transfer (REST) design pattern. HTTP is a client-server protocol, but can be used in a polling mode to handle requests pushed to the device by a server.

Web Sockets is similar to HTTP, but allows for asynchronous message transfer in either direction. Web Sockets is often used with JSON for remote method invocation and event notification.

Constrained Application Protocol (CoAP) is designed as an IP protocol for embedded or constrained devices. It translates easily to HTTP for integration with the Web and RESTful APIs. It also supports notifications pushed from a server to the device. CoAP is often used together with 6LoWPAN for short range wireless connections

6LoWPAN is short for IPv6 over Low power Wireless Personal Area Networks. It is layered on top of the IEEE 802.15.4 standard for the physical layer and media access control for personal area networks, and may be used in conjunction with CoAP.

ZigBee is a low power wireless communications technology optimized for devices requiring a very long battery life. ZigBee is layered on top of the IEEE 802.15.4 standard for the physical layer and media access control for personal area networks.

Near Field Communications (NFC) is a very short range wireless technology and can be used to access sensor readings, and operate door locks, or to open the browser in a smart phone to a URL for a web page relating to the tagged object.

Bluetooth is a short range technology with a suite of profiles for different categories of applications. Bluetooth Low Energy (BLE) offers extended battery life. It can be used for exchange of small amounts of data, either in a broadcast mode or for bidirectional connections. This is expected to be of increasing importance for applications running on smart phones or tablets. The W3C Bluetooth Community Group is drafting an API based upon the GATT profile for BLE, and Google have proposed the use of BLE for broadcasting URLs as part of their vision for the Physical Web.

IoT Technologies

ANT is a proprietary sensor network technology operating in the 2.4 GHz band. It can be used to transfer small amounts of data across networks with hundreds of sensors.

DASH7 is designed for long lived battery operated sensor networks, it works in the 433 MHz unlicensed band. The range is up to 1000m depending on power levels and data rates. Like ZigBee and BLE, DASH7 is aimed at transferring small amounts of data, and unsuitable for audio or video.

KNX for buildings s a standardized (EN 50090, ISO/IEC 14543), OSI-based network communications protocol for intelligent buildings. KNX is the successor to, and convergence of, three previous standards: the European Home Systems Protocol (EHS), BatiBUS, and the European Installation Bus (EIB or Instabus). The KNX standard is administered by the KNX Association. KNX can be realized over a mix of networking technologies, e.g. twisted pair cable, powerline networking, radio (KNX-RF), infrared and conventional ethernet.

EnOcean is a similar protocol to KNX for sensors that are self powered, e.g. harvesting energy when you push a switch that is sufficient for sending 2 or 3 packets. The sensors are quite expensive (e.g. 60 CHF) but available for motion sensors (light and thermal IR), beds, seats, window handles and so forth.

Infrared is widely used for remote control of TVs, air conditioners etc. Infrared was popular for PDAs and laptops in the late 90's and early 2000's, but lost ground to RF technologies such as WiFi and Bluetooth. Infrared is making a comeback for fast transmission of photos from phones to printers etc.

Universal Serial Bus (USB) s an industry standard defining cables, connectors and protocols. It is widely used for connecting devices to computers, e.g. keyboards, mouse pointers, hard drives for storage, game controllers, and also for connecting to printers, scanners, digital cameras, smart phones and tablets. USB is designed to power devices and is commonly used for charging device batteries, replacing the need for a separate cable.

Wireless USB (WUSB) is a standard for connecting devices using a wide band protocol in the 3.1 GHz to 10.6 GHz region. The range is 3 to 10m.

IoT Technologies

IEEE 1394 (Firewire) is a serial connection designed for high speed transfers, and similar in some ways to USB. IEEE 1394 has lost ground to USB as the latter has increased in speed, and due to the need for a separate power connection for Firewire devices.

WiFi ISO 802.11 is a local area network technology for managed or ad hoc networks in 2.4 GHz or 5 GHz bands.

Machine to Machine (M2M) is a generic term for wired or wireless communication technologies between devices. Mobile network operators are promoting cellular M2M, e.g. based upon GSM data modules, for applications such as smart meters.

Low Throughput Network (LTN) is a wide area wireless technology defined by ETSI, and offers long range and minimal battery consumption.

Weightless is a protocol for using white space spectrum for exchanging data between a base station and thousands of client devices. Base stations are directly connected to the Internet. Clients are allocated a schedule of times and frequencies to communicate with their base station. A database is used to avoid interference with local terrestrial TV broadcasts.

MQTT is a lightweight publish-subscribe protocol based upon TCP/IP connections. It is intended for embedded/constrained devices, and needs to be used in conjunction with a message broker.

XMPP is an XML based protocol used for presence, instant messaging, and real-time communication and collaboration.

Efficient XML Interchange (EXI) is a binary format for structured data that is suitable for embedded/constrained devices and offers further compression when used with a specific XML schema. It may be used in conjunction with CoAP.

JavaScript Object Notation (JSON) is a textbased representation for structured data that is increasingly popular with Web developers. JSON-LD is a set of conventions for using JSON for linked data.

Internet of Things Consortium

IOTC ABOUT - STORIES - NEWS CALENDAR JOBS - MEMBERS APPL

2nd Quarter Meeting is Almost Here. JOIN US NOW!



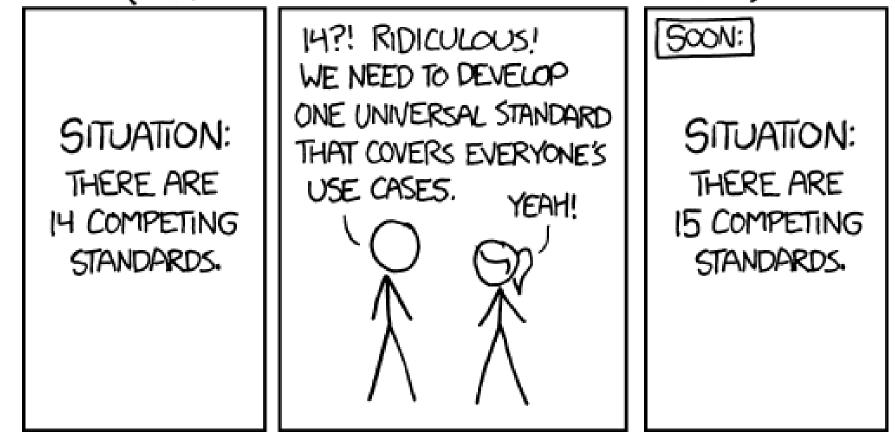


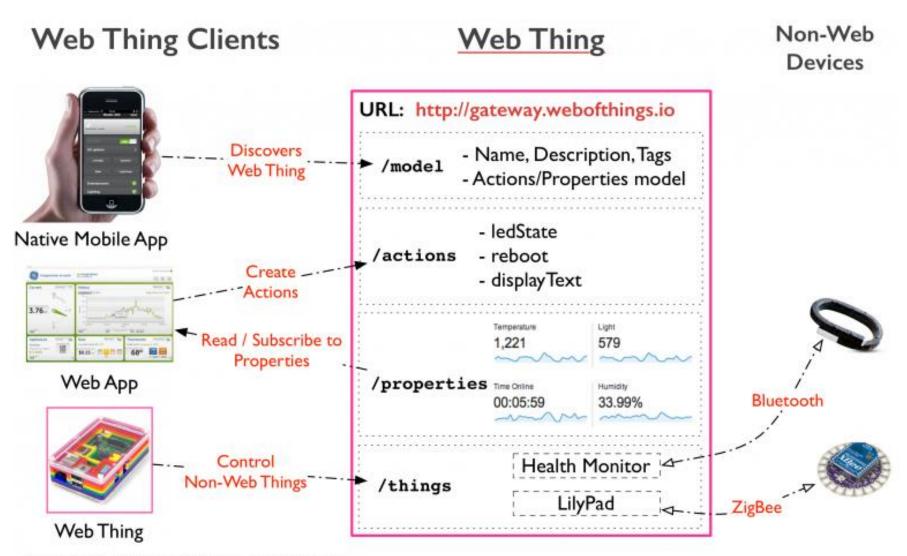
Web das Coisas

"Interoperability is critical" Mike Bell, head of wearables at Intel

A Web das Coisas é

essencialmente sobre o papel das tecnologias da Web para facilitar o desenvolvimento de aplicações e serviços para as coisas e sua representação virtual (SEE: A/C CHARGERS, CHARACTER ENCODINGS, IN STANT MESSAGING, ETC.)

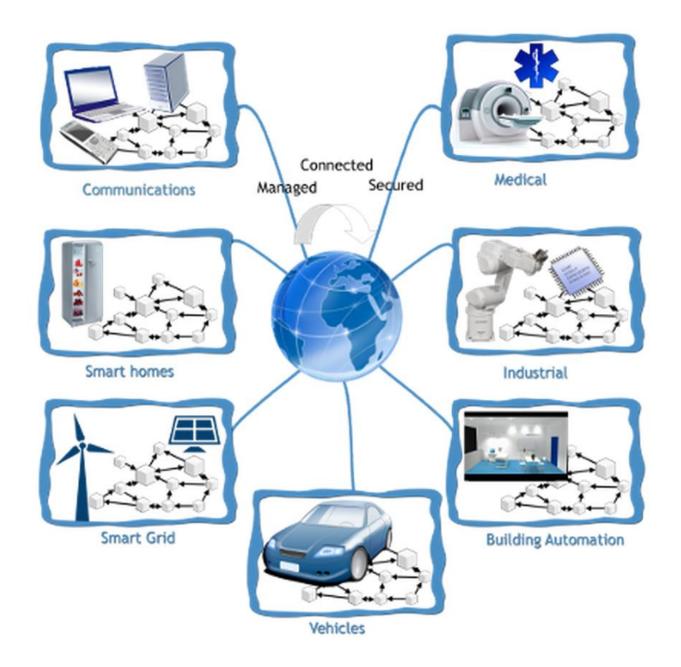




Source: Building the Web of Things: book.webofthings.io Creative Commons Attribution 4.0

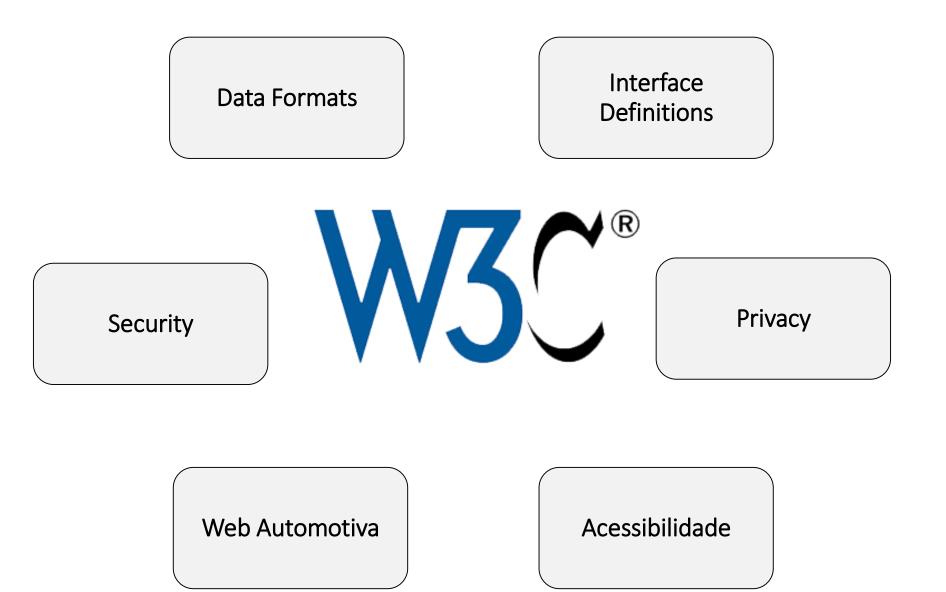
Camada de aplicação e serviços

"Quem quer dinheiro?" Silvio Santos

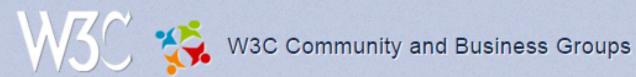


Padronização é a chave da Internet das Coisas

"The driver goal is with the developers." Maarten Ectors, Vice President Internet of Things at Canonical Ltd. / Ubuntu



conversa



CURRENT GROUPS	REPORTS ABOUT	
Mailing List	Home / Web of Things Community Group	
🥳 Wiki 💊 Chat	Web of Things Community Group The aim of the Web of Things Community Group (CG) is to accelerate the adoption of Web technologies as a basis for enabling services for the combination of the Internet of Things with rich descriptions of things and the context in which they are used.	Get inv Anyone m Group. Al
Contact This	Reports	have sign Contribut
Group	No reports yet published. The Chair is responsible for publishing reports. More about publishing	or learn h account. Note: Co
	News	proposed Although

http://www.w3.org/community/wot/



GET INVOLVED

Views: desktop mobile print STANDARDS PARTICIPATE MEMBERSHIP ABOUT W3C

W3C » Web of Things at W3C

WEB OF THINGS AT W3C

Web of Things Interest Group The Web of Things Interest Group provides a forum for technical discussions to identify use cases and requirements for open markets of applications and services based upon the role of Web technologies for a combination of the

Unlocking the potential



The Internet of Things is currently beset by product silos. To unlock the commercial potential there is a need for open ecosystems based upon open standards. This includes standards for identification, discovery and interoperation of services across platforms from different vendors, and will involve the need for rich descriptions and shared data models, as well as close attention to security, privacy, scalability and

accessibility. Open ecosystems will stimulate growth through the establishment of larger markets for developers and lifting the burden for tailoring products to

http://www.w3.org/WoT/

encodings such as JSON and EXI, formats for data and metadata, including

data.

Thing Description:

Semantic vocabularies for describing the data and interaction models exposed to applications, the choice of communications patterns provided by protocols, and serialization formats suitable for processing on resource-constrained devices and transmission over constrained networks.

Scripting API:

Platform-independent application-facing API for Thing-to-Thing interaction and Thing lifecycle management.

Binding Templates:

Example mappings from the abstract messages to specific common platforms and protocols in collaboration with the corresponding organizations.

Security and Privacy:

Cross-cutting policies and mechanisms integrated into the other building blocks to describe and implement security and privacy policies to enable secure and safe interaction across different IoT platforms.









MULTIMEDIA

3D, GRAPHIC EFFECTS



PERFORMANCE & INTEGRATION



CS53 STYLIN

W3 C ₀	
Vertical Applications Inference Query Ontologies Data	

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STANDARDS	PARTICIPATE	MEMBERSHIP	ABOUT W3C			
W3C » Sta	W3C » Standards » Semantic Web » Data					
LINKED DATA						
On this pag	$e \rightarrow$ what is linke	d data 🔹 what is	linked data used for	examples	•	
current statu	s of specifications a	and groups				

What is Linked Data?

The Semantic Web is a Web of Data — of dates and titles and part numbers and chem and any other data one might conceive of. The collection of Semantic Web technologie SKOS, SPARQL, etc.) provides an environment where application can <u>query</u> that data, inferences using <u>vocabularies</u>, etc.

However, to make the Web of Data a reality, it is important to have the huge amount of Web available in a standard format, reachable and manageable by Semantic Web tools Furthermore, not only does the Semantic Web need access to data, but *relationships a*

http://www.w3.org/standards/semanticweb/data

To achieve and create Linked Data, technologies should be available for a common for make either conversion or on-the-fly access to existing databases (relational, XML, HTI also important to be able to setup <u>query</u> endpoints to access that data more convenient provides a palette of technologies (RDF_GRDDL_POWDER_RDFa_the upcoming R2R



PARTICIPATE M

MEMBERSHIP ABOUT W3C



Views:

PRIVACY ACTIVITY

The evolution of Web technologies has increased collection, processing and publica data. Privacy concerns are raised more often as applications built on the Web platfo more sensitive data — including location, health and social network information — a the Web is ubiquitously tracked. The W3C Privacy Activity coordinates standardization support for user privacy on the Web and develops general expertise in privacy-by-de standards.

Privacy Interest Group

The group monitors ongoing privacy issues that affect the Web, investigates potential areas for new privacy work, and provides guidelines and advice for addressing privacy in standards

Tracking Protecti Group

TPWG homepage

http://www.w3.org/Privacy/

Fingerprinting Guidance Christine Runnegar (Internet Society) and Tara Whalen (Google) are co-chairing the group. Nick Doty (W3C) is the Team Contact.

Past events

PRIVACY INTEREST GROUP (PING)

Charter

Join the group

Participants

public-privacy mailing list

Wiki

Issue & Action Tracker

W3C.	Views: desktop mobile STANDARDS PARTIC		ABOUT W3C				
	W3C » Security Activi	ty					
ACTIVE GROUPS	SECURITY	Y ACTIVITY					
Web Security Interest Group The mission of	Security at W3C Web Security is a collaborative effort across the Web ecosystem; W3C coordinates some of that work in its Security Activity, within the Technology & Society Domain. Among the work we are doing to help secure Web applications and Web usage:						
the Web Security Interest Group is to serve as a	WebWebCryptographyApplicationPaymentsWorkingSecurityThe WebGroupWebAppSec isPayments Interest						
	http://www.w	3.org/Securi		01			
improving standards and implementations	emergence of more complex protocols	Policy and CSP Level 2; Cross- Origin Resource	technical discussions to identify use cases	We Fac TF			



Web Accessibility initiative

WAI: Strategies, guidelines, resources to make the Web accessible to

W3C Home

Web Accessibility Initiative (WAI) Home

Getting Started

Designing for Inclusion

Guidelines & Techniques

Planning & Implementing

Evaluating Accessibility

Tutorials and Presentations

Getting Involved with WAI

<u>Discover new resources</u> for people with disabilities, policy makers, managers, and you!

áβε本কฤб Translations

"The power of the Web is in its universality. Access by everyone regardless of disability is an essential aspect."

- Tim Bornors Loo, W3C Director and

Web Accessibility Initiative (WAI)

Highlights

Updated: Tutorials on Web Accessibility

<u>Web Accessibility Tutorials</u> on Menus, Page Structure, Forms, Images, Tables, and Carousels have been <u>updated</u>. These tutorials show you how to create web content that is accessible to people with disabilities and that improves the user experience for all users. They include general guidance, and specific examples for HTML5 and <u>WAI-ARIA</u>. (2017-Apr-18)

WCAG 2.1 Working Draft - April 2017

<u>Web Content Accessibility Guidelines (WCAG) 2.1</u> Working Draft is updated. This draft includes only the success criteria that have been formally accepted by the Working Group, and not the "proposed" success criteria that were in the previous draft. The Working Group has not addressed all comments yet; they are in queue for upcoming work. We plan to publish updated drafts monthly, to encourage timely review of the success criteria that the Working Group has approved. More information is in the <u>WCAG 2.1 April 2017 announcement</u> and <u>WCAG 2.1</u> <u>status</u>. Please comment by **9 May 2017**. (2017-Apr-19)

Accessibility Conformance Testing (ACT) Rules Format 1.0 First Public Working Draft

Accessibility Conformance Testing (ACT) Rules Format 1.0 has been

http://www.w3.org/WAI/

WAI develops...

- guidelines wide international st
- support materia implement Well
- resources, thro collaboration

WAI welcomes...

- participation fi
- volunteers to repromote guide
- dedicated part

Announceme

- Open position Engineer (Chi
- Get WAI Anno

Events, Meet

- At <u>AccessU</u> in 2017
 - Catching U Beginner's
 - Easy Check Get the Gis Necessary)
 - The WAI to

[WAL Presentation

and manual accessibility testing approaches, and helps organizations to





GROUP DETAILS

Charter

Mailing List

Blog

Wiki

Group Participants

Royalty-Free Patent Policy

Join This Group

SPECIFICATIONS

LATEST EDITOR'S DRAFTS

Vehicle Information Access API

Vehicle Data

AUTOMOTIVE WORKING GROUP

As shown in the <u>Charter</u>, the mission of the Automotive Working Group is to develop Open Web Platform specifications for HTML5/JavaScript application developers enabling Web connectivity through in-vehicle infotainment systems and vehicle data access protocols. The API is agnostic with regard to the connection used.

This group works in public. A detailed list of the specifications being developed by the group are listed in the <u>Automotive Wiki</u>. The latest Editor's Drafts of the working group's specifications are available on GitHub.

The W3C Team Contacts for the Automotive Working Group are <u>Kaz Ashimura</u> and <u>Ted</u> <u>Guild</u>. The co-Chairs of the Working Group are Paul Boyes, Rudolf Streif and Peter Winzell.

Meetings

· See the Automotive Wiki for the past and upcoming meetings.

Shortcuts

Related

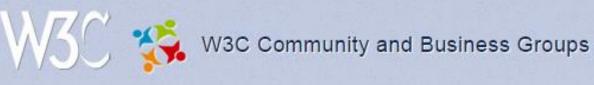
The Automo Business Gro to the standa Working Gro Business Gro draft of the <u>V</u> Access API a were used a Working Gro work. See al Business Gro

http://www.w3.org/auto/wg/

- Automotive Landing Page: Automotive and Web at W3C
- WebEx: +1-617-324-0000
- IRC: irc.w3.org:6665#auto / IRC web client

iling List: public automotivo@w?

Issues





CURRENT GROUPS REPORTS ABOUT Home / Web Bluetooth Community Group Mailing List Web Bluetooth Community Group Chat Getinvolve Bluetooth is a standard for short-range wireless communication between devices. Anyone may joi This group is developing a specification for Bluetooth APIs to allow websites to RSS Group. All partie communicate with devices in a secure and privacy-preserving way. have signed the Contributor Lice In particular the web Bluetooth API focuses on minimizing the device attack surface (CLA). Contact This exposed to malicious websites, possibly by removing access to some existing Group Bluetooth features that are hard to implement securely. Further, the API takes the JOIN 1 approach of a user interface to select and approve access to devices as opposed to using certification and installation. or learn how to account: Note: Commun



http://www.w3.org/community/web-bluetooth/

about publishing ...

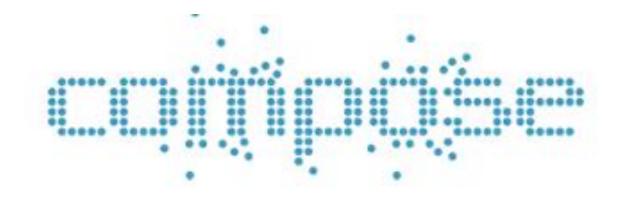


necessarily repl W3C Membersh

proposed and r

Algumas iniciativas

"Do or do not. There is no try" Yoda



- http://www.compose-project.eu/
- https://www.youtube.com/watch?v=G6R0pCV5MG8
- https://github.com/nopbyte/compose-idm



https://evrythng.com/

http://vimeo.com/51878487

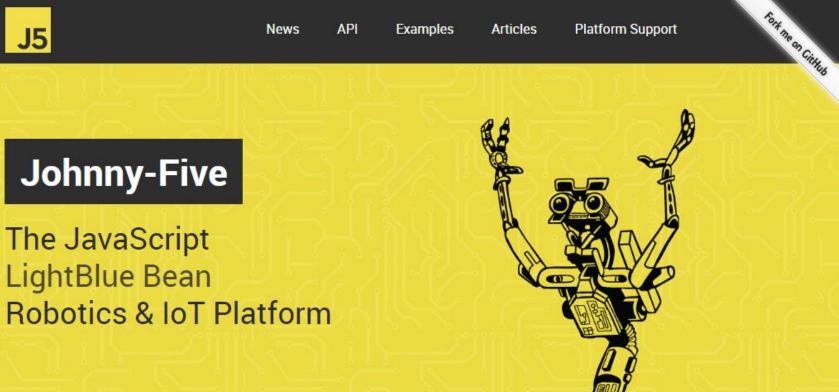
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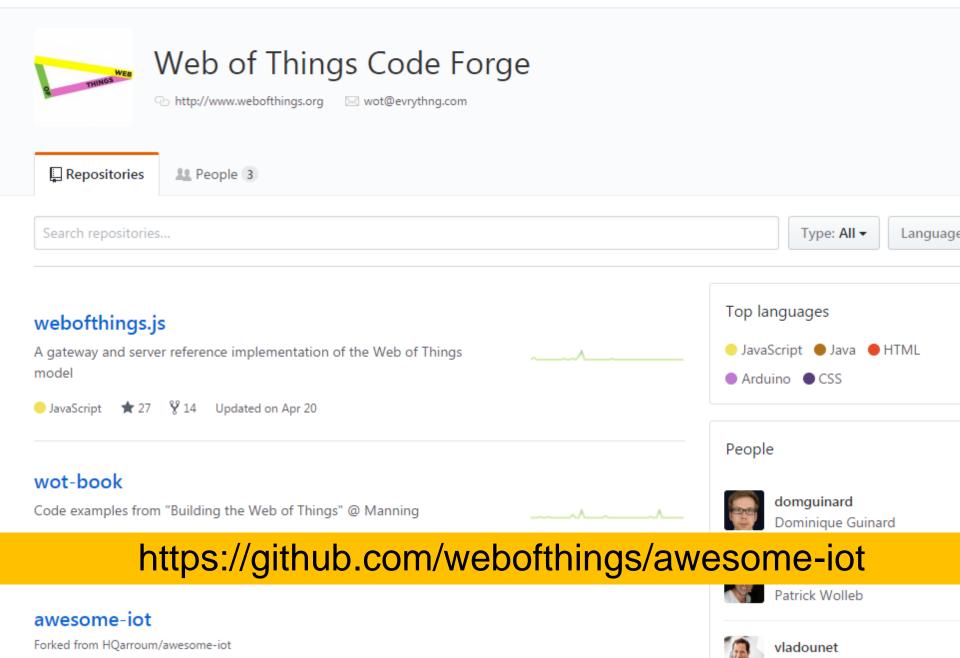
Johnny-Five is the JavaScript Robotics & IoT Platform. Released by Bocoup in 2012, Johnny-Five is maintained by a community of passionate software developers and hardware engineers. Over 75 developers have made contributions towards building a robust, extensible and composable ecosystem.



Features Business	Explore Marketplace I	Pricing	This repository Search	Sign in or Sign up
felixge / node-ar-dro	ne		 ♥ Watch 141 	Star 1,471 ¥ Fork 370
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A node.js client for controll	ing Parrot AR Drone 2.0 quac	l-copters. http://nodecop	oter.com/	
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Branch: master New pull re	equest		I	Find file Clone or download -
mehner Merge pull reques	t #110 from seanhussey/patch-1		Latest	commit 228bd45 on Dec 4 2014
examples	Removed examples/tweets.j	s; It just prints tweets to the c	onsole & do	4 years ago
iib lib	Fixes client up/down, left/rig	ght, front/back, clockwise/cou	nterclockw	3 years ago
test 👘	Fixes client up/down, left/rig	ght, front/back, clockwise/cou	nterclockw	3 years ago
.gitignore	ignore .DS_Store for osx use	rs		3 years ago
ishintrc	Set unused option for jshint	, removed unused variables in	n code	4 years ago
:travis.yml	Don't build in node 0.6 for r	now		5 years ago
CONTRIBUTING.md	Update 1.0 info			5 years ago
Changes.md	Release 0.3.1			4 years ago
	Add License			5 years ago
Makefile	Use npm test as primary tes	t runner.		5 years ago
README.md	Fixed typos.			3 years ago
🖹 index.js	Rename method			5 years ago
package.json	0.3.3			3 years ago

E README.md















Operating systems

- Apache Mynewt Apache Mynewt is a real-time, modular operating system for connected IoT devices that need to
 operate for long periods of time under power, memory, and storage constraints. The first connectivity stack offered is BLE
 4.2.
- ARM mbed The ARM® mbed[™] IoT Device Platform provides the operating system, cloud services, tools and developer ecosystem to make the creation and deployment of commercial, standards-based IoT solutions possible at scale.
- Contiki Contiki is an open source operating system for the Internet of Things. Contiki connects tiny low-cost, low-power microcontrollers to the Internet.
- FreeRTOS FreeRTOS is a popular real-time operating system kernel for embedded devices, that has been ported to 35 microcontrollers.
- Google Brillo Brillo extends the Android platform to all your connected devices, so they are easy to set up and work seamlessly with each other and your smartphone.
- OpenWrt OpenWrt is an operating system (in particular, an embedded operating system) based on the Linux kernel, primarily used on embedded devices to route network traffic. The main components are the Linux kernel, util-linux, uClibc or musl, and BusyBox. All components have been optimized for size, to be small enough for fitting into the limited storage and memory available in home routers.
- Snappy Ubuntu Snappy Ubuntu Core is a new rendition of Ubuntu with transactional updates. It provides a minimal server image with the same libraries as today's Ubuntu, but applications are provided through a simpler mechanism.
- NodeOS NodeOS is an operating system entirely written in Javascript, and managed by npm on top of the Linux kernel.
- Raspbian Raspbian is a free operating system based on Debian optimized for the Raspberry Pi hardware.
- RIOT The friendly Operating System for the Internet of Things.
- Tiny OS TinyOS is an open source, BSD-licensed operating system designed for low-power wireless devices, such as those used in sensor networks, ubiquitous computing, personal area networks, smart buildings, and smart meters.
- Windows 10 IoT Core Windows 10 IoT is a family of Windows 10 editions targeted towards a wide range of intelligent devices, from small industrial gateways to larger more complex devices like point of sales terminals and ATMs.

Frameworks

- AllJoyn AllJoyn is an open source software framework that makes it easy for devices and apps to discover and communicate with each other.
- Apple HomeKit HomeKit is a framework for communicating with and controlling connected accessories in a user's home.
- Countly IoT Analytics Countly is a general purpose analytics platform for mobile and IoT devices, available as open source.
- Eclipse Smarthome The Eclipse SmartHome framework is designed to run on embedded devices, such as a Raspberry Pi, a BeagleBone Black or an Intel Edison. It requires a Java 7 compliant JVM and an OSGi (4.2+) framework, such as Eclipse Equinox.
- Iotivity IoTivity is an open source software framework enabling seamless device-to-device connectivity to address the emerging needs of the Internet of Things.
- Kura Kura aims at offering a Java/OSGi-based container for M2M applications running in service gateways. Kura
 provides or, when available, aggregates open source implementations for the most common services needed by M2M
 applications.
- Mihini The main goal of Mihini is to deliver an embedded runtime running on top of Linux, that exposes high-level API for building M2M applications. Mihini aims at enabling easy and portable development, by facilitating access to the I/Os of an M2M system, providing a communication layer, etc.
- OpenHAB The openHAB runtime is a set of OSGi bundles deployed on an OSGi framework (Equinox). It is therefore a
 pure Java solution and needs a JVM to run. Being based on OSGi, it provides a highly modular architecture, which even
 allows adding and removing functionality during runtime without stopping the service.
- Gobot Gobot is a framework for robotics, physical computing, and the Internet of Things, written in the Go
 programming language.

Middlewares

- IFTTT IFTTT is a web-based service that allows users to create chains of simple conditional statements, called "recipes", which are triggered based on changes to other web services such as Gmail, Facebook, Instagram, and Pinterest. IFTTT is an abbreviation of "If This Then That" (pronounced like "gift" without the "g").
- Huginn Huginn is a system for building agents that perform automated tasks for you online.
- Kaa An open-source middleware platform for rapid creation of IoT solutions.
- Losant Losant is an easy-to-use and powerful developer platform designed to help you quickly and securely build complex connected solutions. Losant uses open communication standards like REST and MQTT to provide connectivity from one to millions of devices. Losant provides powerful data collection, aggregation, and visualization features to help understand and quantify vast amounts of sensor data. Losant's drag-and-drop workflow editor allows you to trigger actions, notifications, and machine-to-machine communication without programming.

Libraries and Tools

- Cylon.js Cylon.js is a JavaScript framework for robotics, physical computing, and the Internet of Things. It makes it
 incredibly easy to command robots and devices.
- Luvit Luvit implements the same APIs as Node.js, but in Lua ! While this framework is not directly involved with IoT development, it is still a *great* way to rapidly build powertfull, yet memory efficient, embedded web applications.
- Johnny-Five Johnny-Five is the original JavaScript Robotics programming framework. Released by Bocoup in 2012, Johnny-Five is maintained by a community of passionate software developers and hardware engineers.
- WiringPi WiringPi is a GPIO access library written in C for the BCM2835 used in the Raspberry Pi.
- Node-RED A visual tool for wiring the Internet of Things.

Build

Twitter Developer Documentation

Docs / REST APIs

Products & Services

Best practices API overview Twitter for Websites Twitter Kit Cards

OAuth

REST APIs

API Rate Limits

Rate Limits: Chart

REST APIs

The REST APIs provide programmatic access to read and write Twitter data. Create a ne user profile and follower data, and more. The REST API identifies Twitter applications and OAuth; responses are in JSON format.

If your intention is to monitor or process Tweets in real-time, consider using the Streamin

Overview

Below are some documents that will help you get going with the REST APIs as quickly as

- API Rate Limiting
- API Rate Limits
- Working with Timelines
- Using the Twitter Search API
- Finding Tweets about Places
- Uploading Media



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Design da experiência do usuário

Permissões

Tokens de acesso

Segurança no login

Teste

Práticas recomendadas

Avançado

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Login no Facebook para Dispositivos

Com o Login no Facebook para Dispositivos, as pessoas podem fazer login com facilidade e se nos aplicativos e serviços com suas contas do Facebook em dispositivos com recursos limitado entrada ou exibição. Isso inclui Smart TVs, molduras digitais ou dispositivos da Internet das Co

Se você estiver comprando um aplicativo para Apple TV, Android TV ou Fire TV, você deve usa SDK para tvOS ou Android.

Com o login no dispositivo, o dispositivo mostra um código alfanumérico e diz às pessoas para uma página da Web no computador ou smartphone. As pessoas que usam seu aplicativo ou se podem então conceder permissões. Depois que seu aplicativo obtém as permissões, o disposit um token de acesso que seu aplicativo usa para fazer solicitações da API de Gráfico para ident pessoa e obter informações para personalizar a sua experiência com o dispositivo.

Este guia descreve o seguinte:

- Experiência do usuário
- Implementar o Login para Dispositivos
- Solução de problemas

Enviar comentários

Coisas conectadas (com a Web)

"The power of the Web is in its universality" Tim Berners-Lee



botanicallstest

@botanicallstest

All new Botanicalls plants post to this account by default. Welcome leafy friends!

& botanicalls.com

iii Joined February 2008

TWEETS		FOLLOWERS		L* Follow]:
Tweet	s Tweets	s & replies			
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Moments

Surf Life Saving WA

@SLSWA

The latest news and beach info, live from the SurfCom operations centre and SLSWA office. Also the source for all WA shark sighting info. #myWAbeach

- Vestern Australia
- 8 surflifesavingwa.com.au
- İ Joined September 2011

Tweet to Surf Life Saving WA

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- Charles



PHILIPS





Home

Getting started

Application Design Guidance

Philips hue API

Conditions of use

Tools and SDKs

Find Answers

Philips hue developers & apps

Job Vacancies

Forum

Philips hue API

Full API Documentation

The full API documentation is only available to registered users. Please login or register to view to documentation and become a member of our exciting hue community. It only takes a few second

See what you can do

Your feedback following our hue launch was clear. You want to use light as you want it. Here we material to do so. The hue bridge has a powerful RESTful interface, which behaves like a simple as your tool. We hope this will help you to truly use light as you want it, by making new apps, we 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 follo how to use them. This should be enough to get you up and running controlling lights from your ap

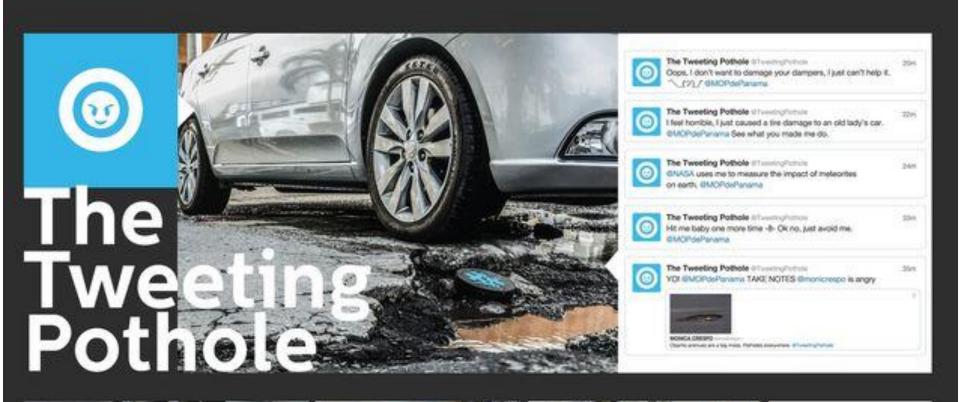
- · Learn how hue works
- Easy step by step guide to get you started
- See what you can do with the hue system
- Questions? Ideas? Post them on the developer forum

Samsung TIZEN TV

New Experience of Smart TV App Development.



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< Development Guide	Devices → HTML 5 Sp		> Samsung Legac	:y Platform > Developr	ment Guide > D	evelopment Tips	s > Web >			
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Sistema posicionado em área onde a chuva afeta determinada região e conectado à previsão do tempo, pode prever quantidade de chuva e possibilidade de alagamentos.

Alagamento

Chuva na região dispara envio de alerta para moradores cadastrados em área de risco

Usuàrio recebe a notificação, que seguindo uma regra pré-definida, repassa o aviso a outras pessoas.



Amiga do Pedro

Vizinhos

맨!

<<<<<

Pedestres

Sistema se conecta a serviços, para possibilitar alertas ou alterações do serviço

Pedro

<<<<<

11

Eternas preocupações e incertezas

"Fear is the path to the dark side. Fear leads to anger. Anger leads to hate. Hate leads to suffering." Yoda

Privacidade



"On the Internet, nobody knows you're a dog."



THE INTERNET OF HACKABLE THINGS



Internet of Things Teddy Bear Leaked 2 Million Parent and Kids Message Recordings

Image: CloudPets



LORENZO FRANCESCHI-BICCHIERAI Feb 27 2017. 6:00pm

A company that sells "smart" teddy bears leaked 800,000 user account credentials—and then hackers locked it and held it for ransom.

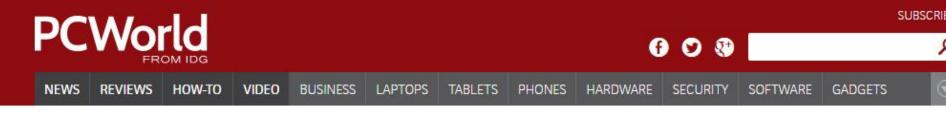
UPDATE, Feb. 28, 12:25 p.m. ET: After this story was published, a security researcher revealed that <u>the stuffed animals themselves could easily be hacked</u> <u>and turned into spy devices</u>.

A company that sells <u>internet-connected teddy bears</u> that allow kids and their far-away parents to exchange heartfelt messages left more than 800,000 customer credentials, as well as two million message recordings, totally exposed online for anyone to see and listen.

Segurança



Cartoon: Drew Dernavich form The New York Worker



Home / Hacking

NEWS

Chinese firm admits its hacked DVRs, cameras were behind Friday's massive DDOS attack

Botnets created from the Mirai malware were involved in Friday's cyber attack.

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By Michael Kan

U.S. Correspondent, IDG News Service | OCT 23, 2016 12:14 PM PT



MORE LIKE THIS



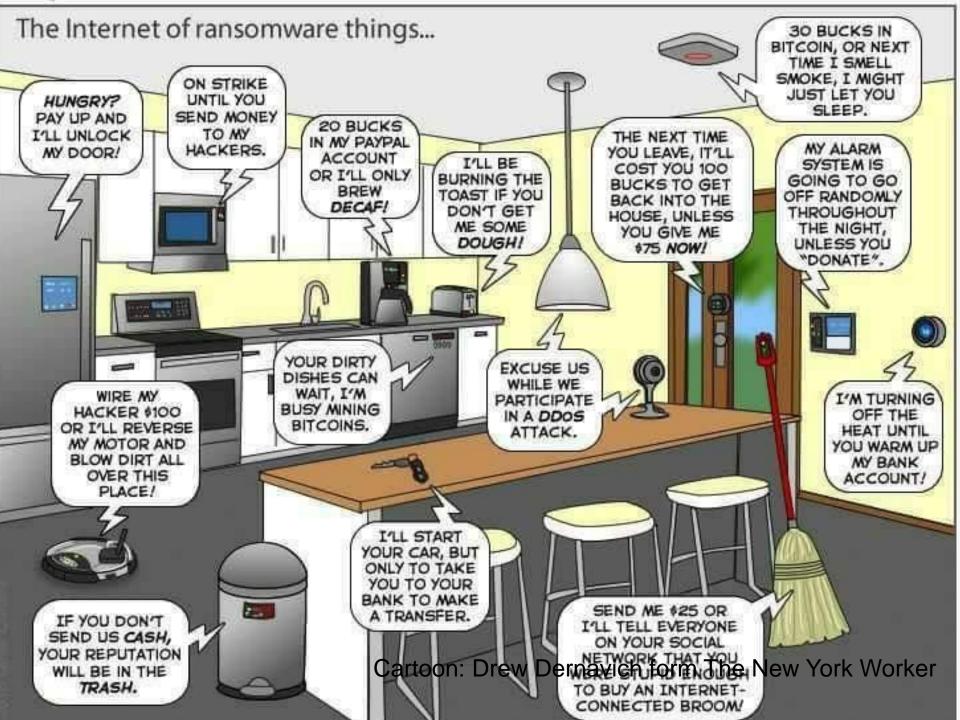
Friday's DDoS attack came from 100,000 infected device

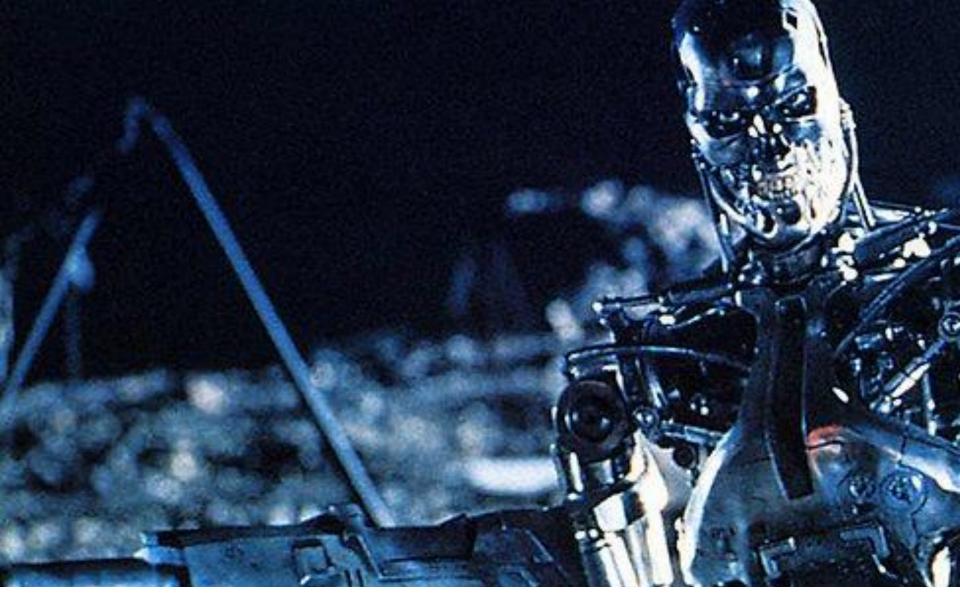


An IoT botnet is partly behin Friday's massive DDOS attac



Massive smart device botnet highlights the dangers of default passwords





As máquinas vão dominar o mundo



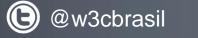
Participe da construção da Web dentro do W3C

"as long as man tried to fly by imitating birds, he couldn't succeed" Le Corbusier

Obrigado reinaldo@nic.br @reinaldoferraz



🔘 w3cbrasil@nic.br



W3C° nicbr egibr

