

# XVII CODAIP



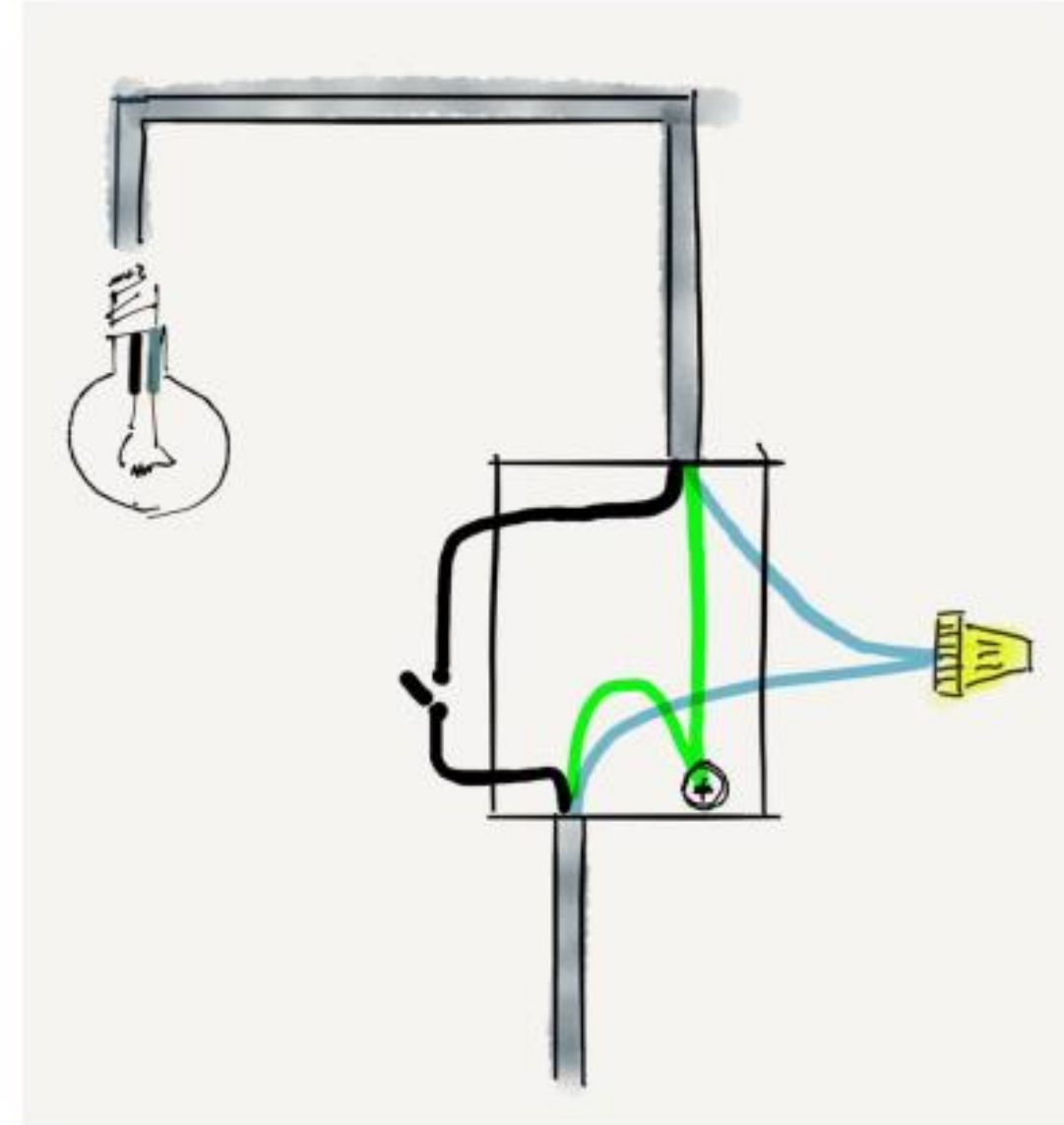
## The use of data by Artificial Intelligence applications

Ramon Alberto dos Santos



AI and the use of data

# WHAT IS IOT?





## Estudo "Internet das Coisas: um plano de ação para o Brasil"



# Internet das coisas: um plano de ação para o Brasil



### Canal de participação no estudo

Por meio do grupo de engajamento digital **Bytes de IoT** divulgaremos informações e pesquisas relacionadas com o tema de Internet das Coisas. Para participar, basta se cadastrar no **Bytes de IoT**.





TECNOLOGIA

## Como a Internet das Coisas pode aprimorar o serviço de saúde?

Os desafios regulatórios na implementação da Internet das Coisas na área da saúde

Mateus Piva Adami, Daniel Douek, Manuela Oliveira Camargo



INOVAÇÃO DIGITAL

## Dados e IoT no campo: disputas acerca da proteção e propriedade de dados

Debate traz divergências entre dois grupos – produtores rurais e empresas de insumos/tecnologias agrícolas

Daniel Douek, Ramon Alberto dos Santos, Olívia Bonan Costa



TECNOLOGIA

## Internet das coisas e infraestrutura

Desafios regulatórios na implementação de redes elétricas inteligentes

Caio Mário S. Pereira Neto, Daniel Douek, Mateus Piva Adami, Natalia Langenegger



TECNOLOGIA

## Internet das coisas e segurança pública

Modernização tecnológica com garantia de direitos fundamentais

Ronaldo Lemos, Mateus Piva Adami, Ramon Alberto dos Santos, Olívia Bonan Costa



# AI and the use of data

There are two distinct debates on this topic, which will require complementary approaches: A) application of the legal framework for the protection of personal data, and B) legal development re. ownership and usage of non-personal data.

# AI and the use of data

AI uses data for training, testing, and making predictions, and as such data quality and data diversity impact the performance and fairness of AI systems.

AI applications can benefit by having legally grounded access to a larger and more diverse pool of data.

# AI and the use of data

*Barriers to data sharing prevent an optimal allocation of data to the benefit of society. These barriers include a lack of incentives for data holders to enter voluntarily into data sharing agreements, uncertainty about rights and obligations in relation to data, costs of contracting and implementing technical interfaces, the high level of fragmentation of information in data silos, poor metadata management, the absence of standards for semantic and technical interoperability, bottlenecks impeding data access, a lack of common data sharing practices and abuse of contractual imbalances with regards to data access and use*



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# Research datasets for accelerating state-of-the-art

AR and AI technologies will have a profound impact on the world.

Datasets captured using Project Aria allow us to explore the technical and societal challenges associated with future AR and AI devices, prior to those devices being publicly available.

By making Project Aria datasets available to academic researchers, we hope we can support the growth of AI and ML, enabling us to help build the future for the better, together.





Llama 2 was trained on **40% more data** than Llama 1,  
and has double the context length.

## Llama 2

MODEL SIZE (PARAMETERS)	PRETRAINED	FINE-TUNED FOR CHAT USE CASES
7B	Model architecture:	Data collection for helpfulness and safety:
13B	Pretraining Tokens: 2 Trillion	Supervised fine-tuning: Over 100,000
70B	Context Length: 4096	Human Preferences: Over 1,000,000



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COMMITTED TO  
IMPROVING THE STATE  
OF THE WORLD

# Industrial Internet of Things: Safety and Security Protocol



The IIoT Safety and Security Protocol (the Protocol) generates an understanding of how insurance, which plays an integral part in the incentive structures of cybersecurity norm-setting and governance, can facilitate the improvement of IIoT security design, implementation and maintenance practices. The framework is intended to strengthen security IIoT services using active hardening processes that can be validated through proven penetration, configuration and compliance techniques.



# A trustmark for IoT

Building consumer trust in the Internet of Things by empowering users to make smarter choices.

A ThingsCon Report commissioned by Mozilla's Open IoT Studio.

THINGS

moz://a

Open IoT Studio



## washing instructions for the IoT



### Data Use

Manufacturer  
Model

Less / Better



More / Worse

### Toothbrush

	Demand	Security	Privacy
	B	B	E

### Demand



### Security



### Privacy

