

# Mimmitkoodaa 2019

## – Pets & AI



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# Agenda

- 1 What is a AI?
- 2 Evolution of AI
- 3 IBM Watson
- 4 AI in the animal kingdom
- 5 Hands-on labs

# What is AI?

**Artificial intelligence** is an area of computer science that emphasizes the creation of intelligent machines that work and react like humans.

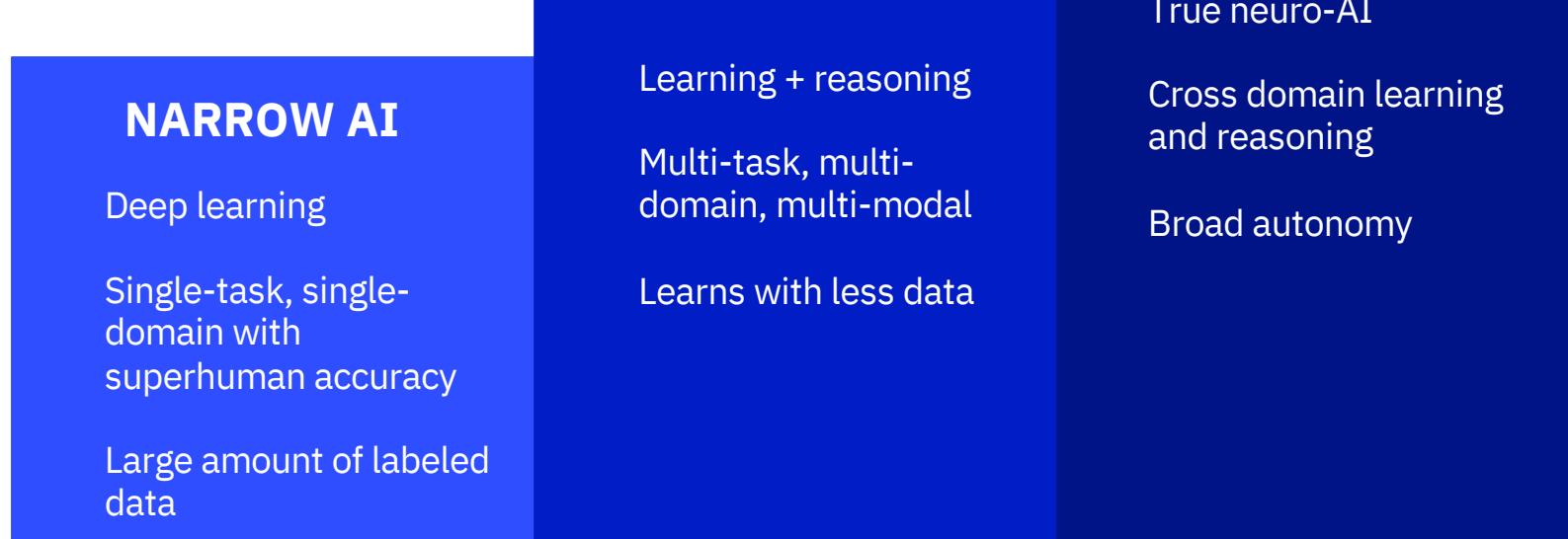
**AI** is intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans.

**AI:** A branch of computer science dealing with the simulation of intelligent behavior in computers.

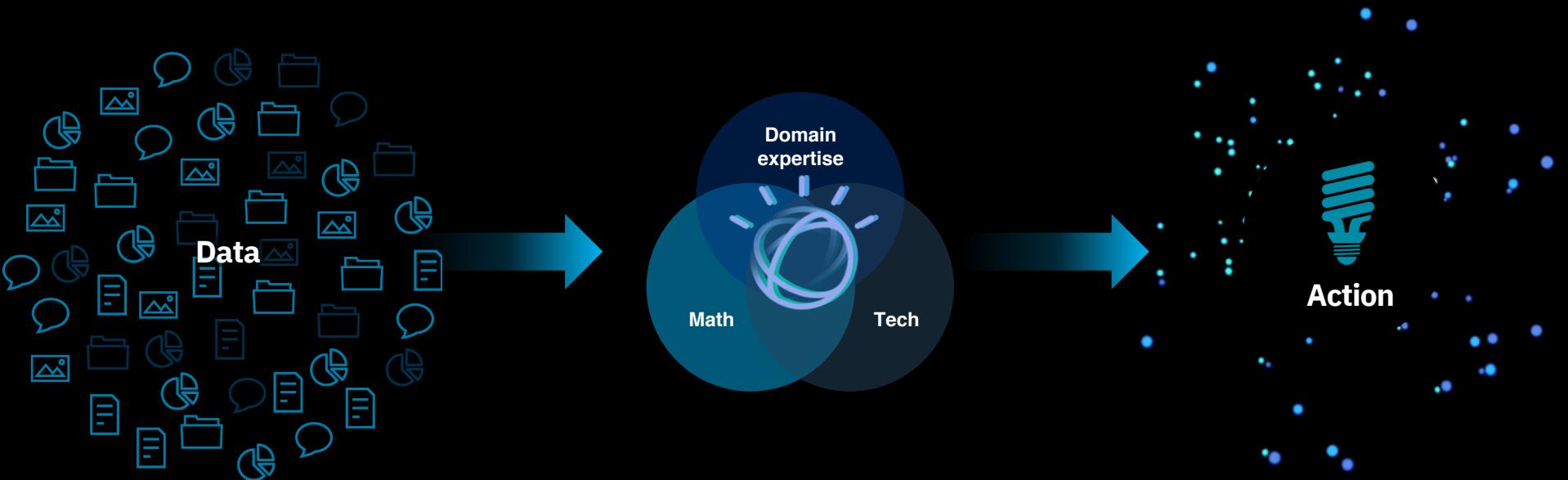
**AI**, the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings.

**AI:** The capability of a machine to imitate intelligent human behavior

# Evolution of AI



# The ingredients for artificial intelligence

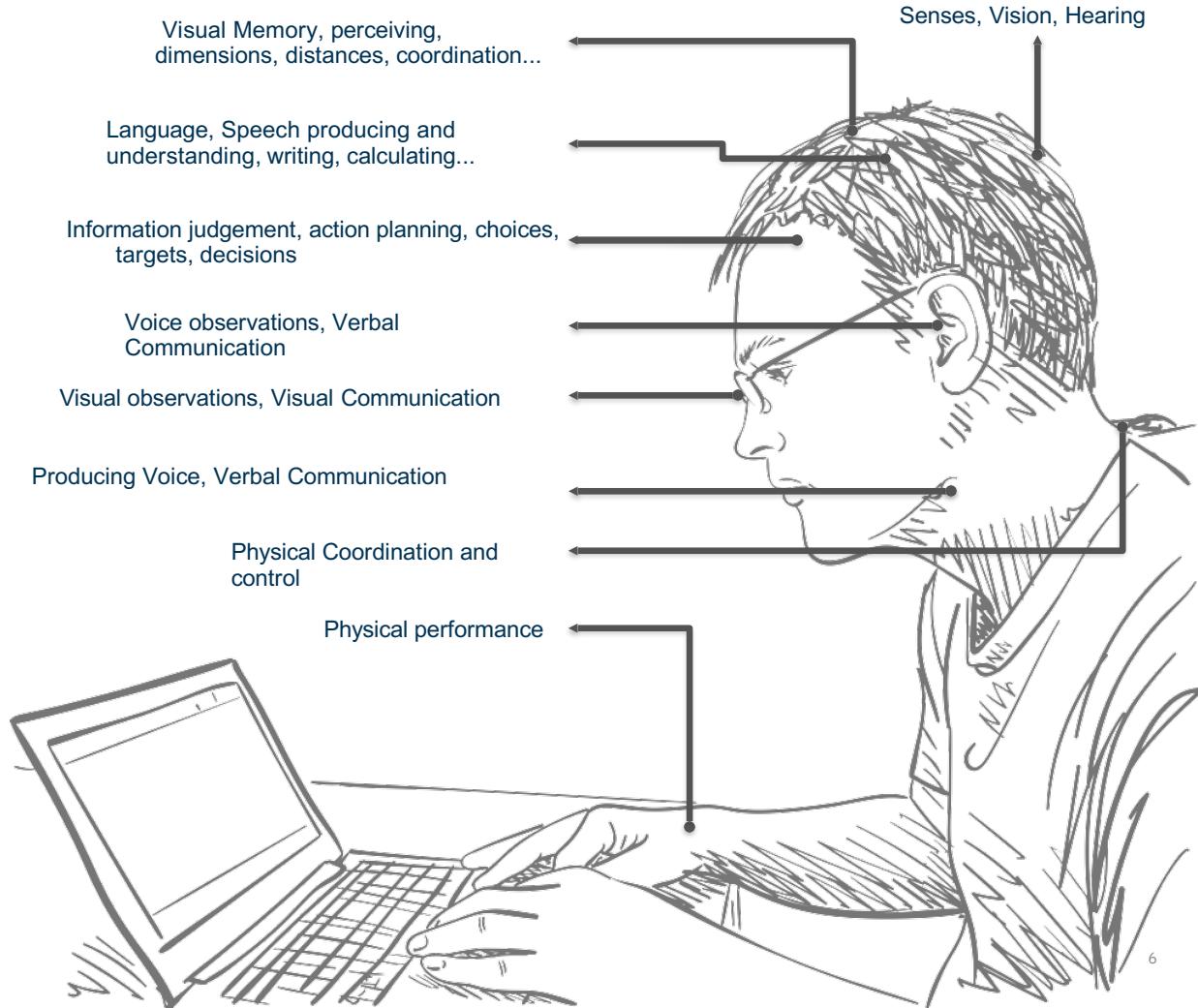


AI's main goal is to **expand human capacity** digitally

**Cognition** is human unique ability to observe, receive, interpret, understand, process and store information.

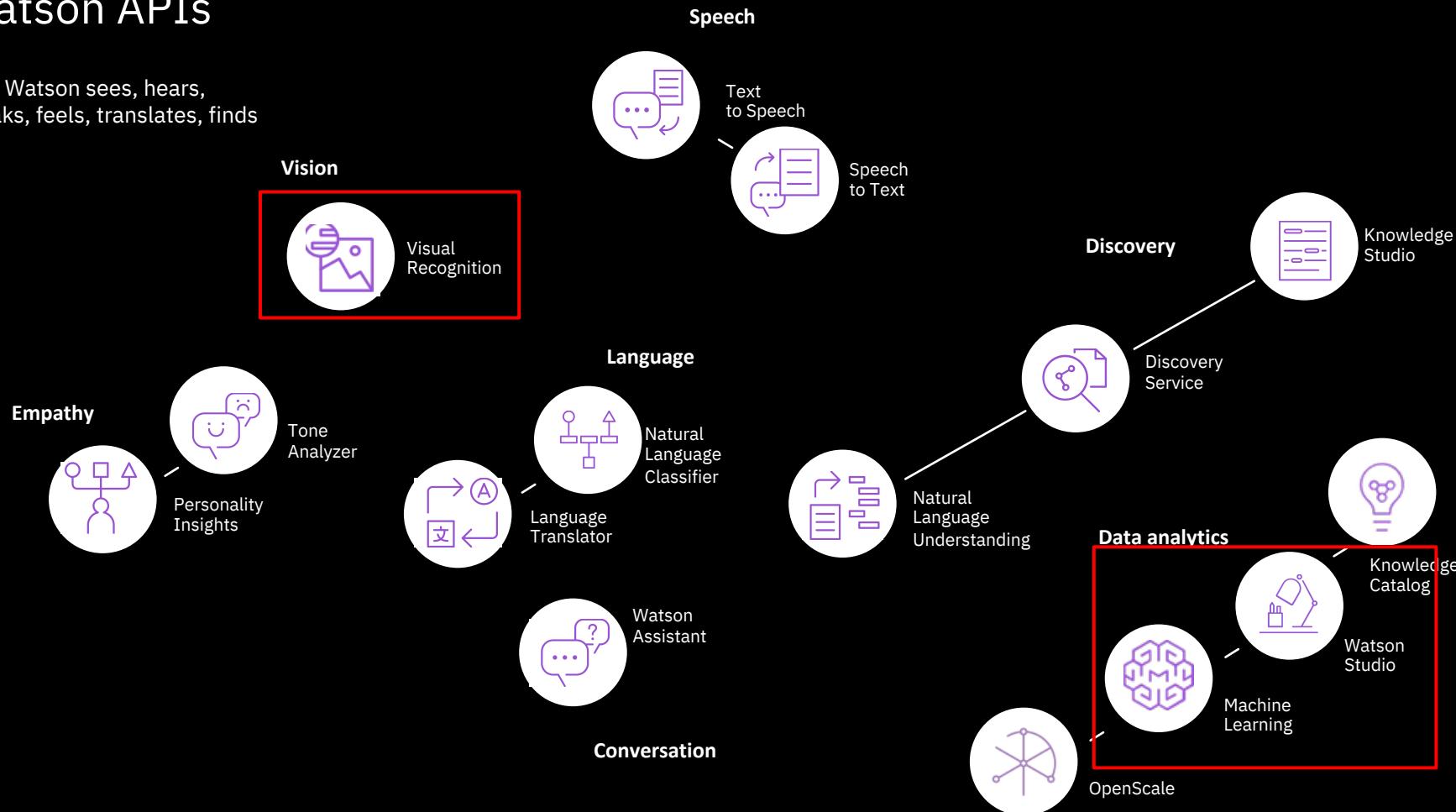
**Cognitive System** executes AI by simulating cognition learnt from human to process information and making decisions with machine learning

**Machine Learning** is based to statistics and it is always prediction based to training data and training



# Watson APIs

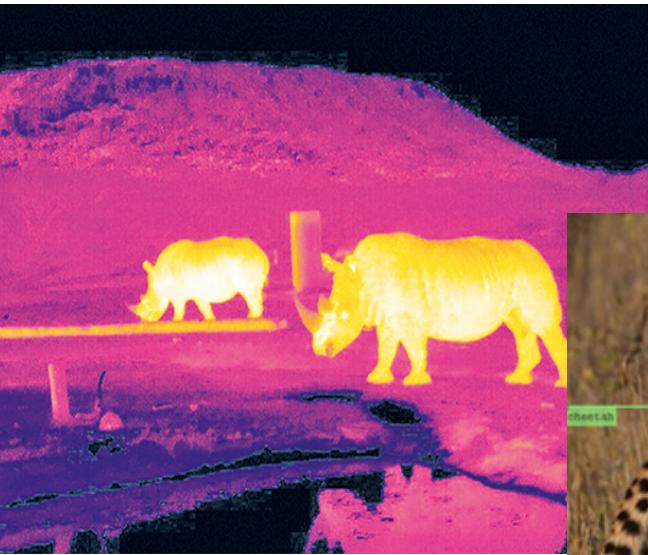
How Watson sees, hears,  
speaks, feels, translates, finds



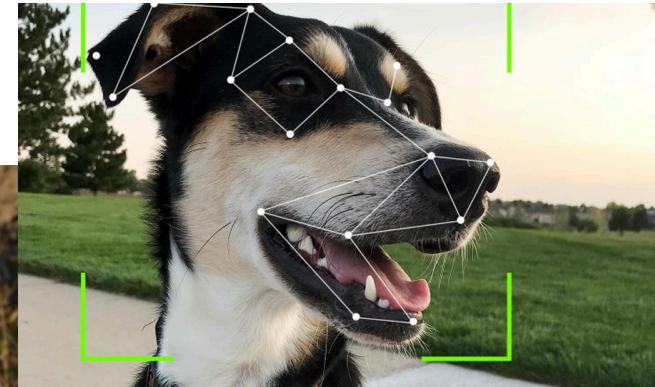
# Guide dogs by IBM Watson



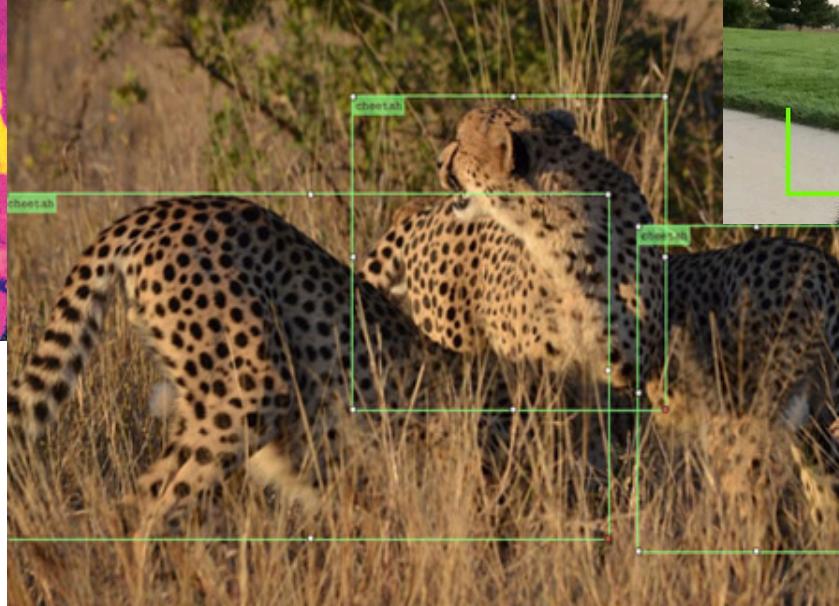
AI protects world's most endangered animals



AI helps you locate your pet



AI is changing wildlife research



# Workshop labs

**Lab 0:** Set up the environment

**Lab 1:** Build a machine learning model using audio files

**Lab 2:** Call your model from a web application

**Lab 3:** Create an UI for your application

**Lab 4:** Add visual Recognition to your application



<https://github.com/sandra-calvo/pets-ai>

# Learning Roadmap

## Data Science and Cognitive Computing

<https://cognitiveclass.ai/>

## Code Patterns

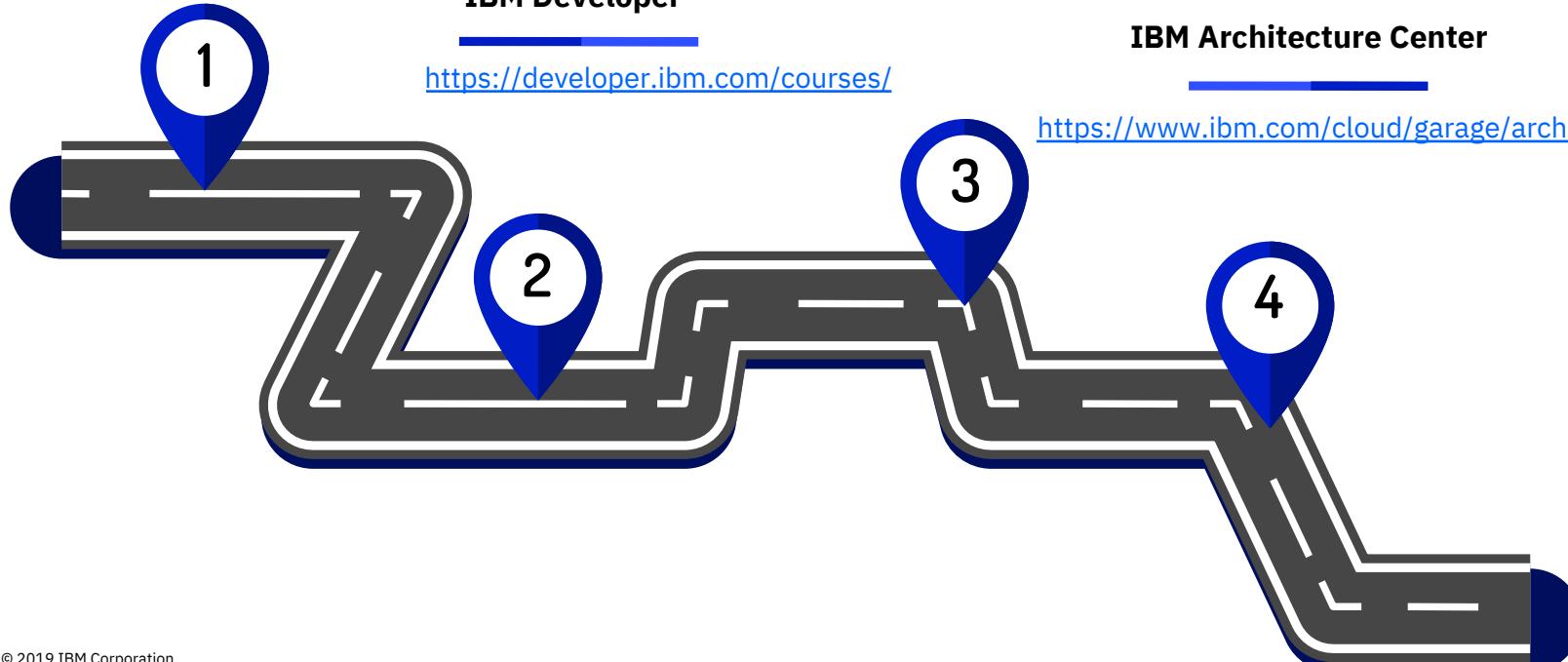
<https://developer.ibm.com/patterns/>

## IBM Developer

<https://developer.ibm.com/courses/>

## IBM Architecture Center

<https://www.ibm.com/cloud/garage/architectures>



# Thank you

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