

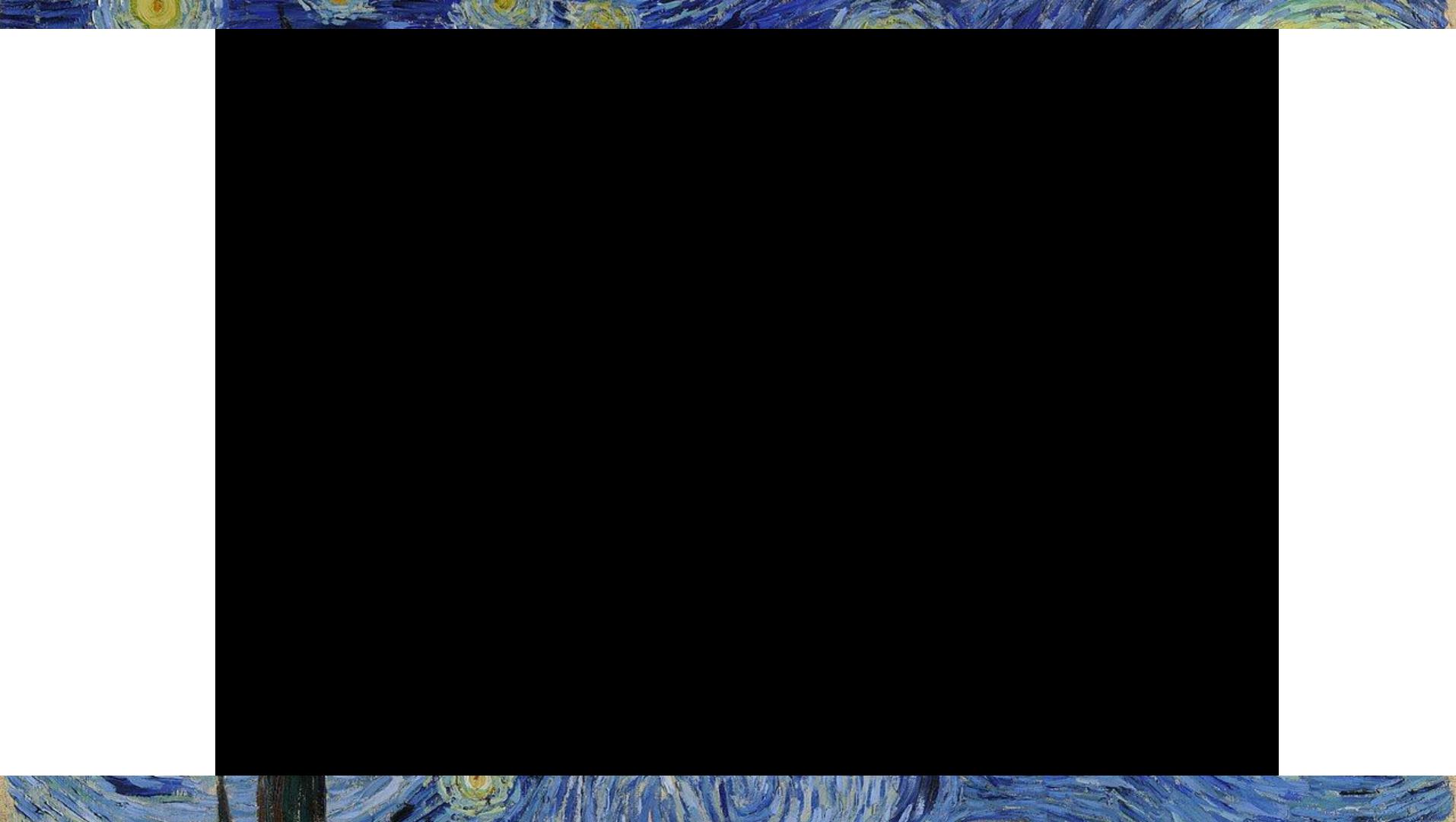
# Digital House > Coding School

Inteligencia Artificial

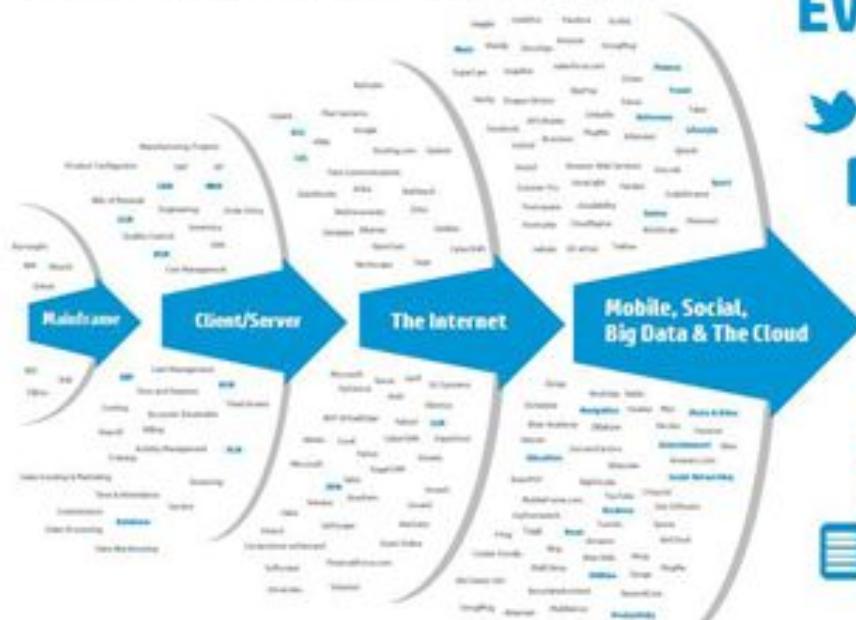




Holu!

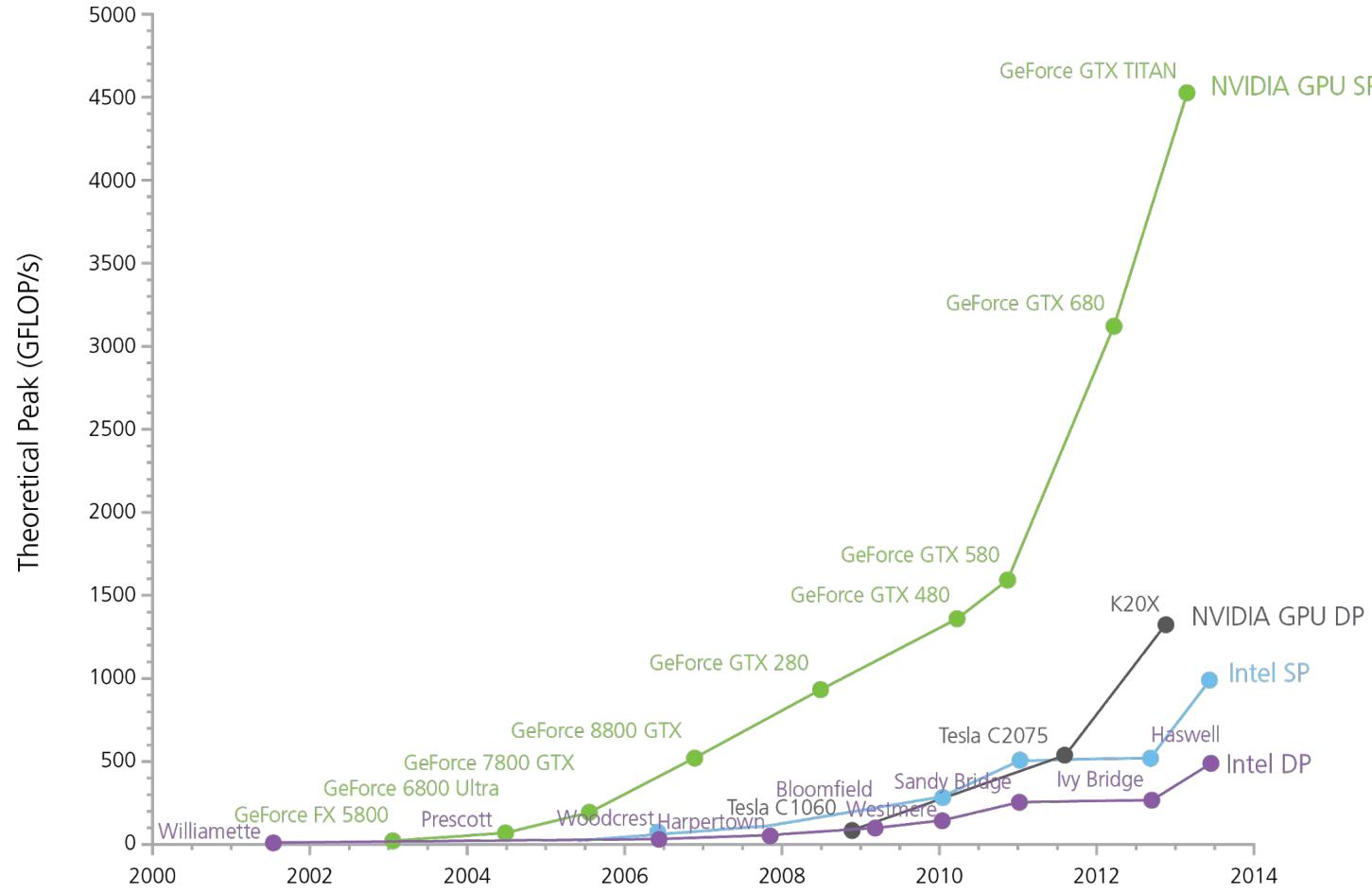


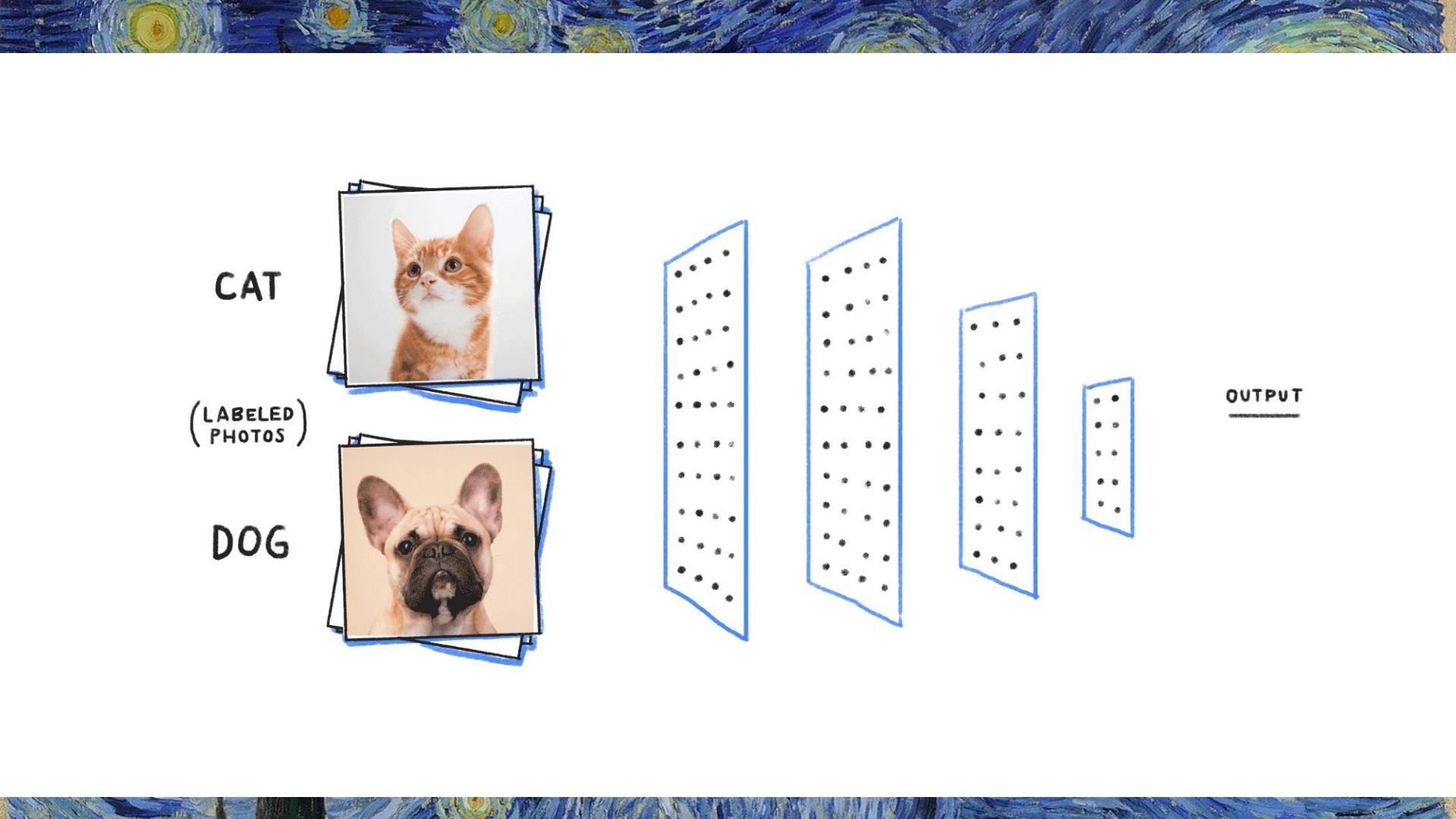
## **A new style of IT emerging**



## Every 60 seconds

-  98,000+ tweets
  -  695,000 status updates
  -  11million instant messages
  -  698,445 Google searches
  -  168 million+ emails sent
  -  1,820TB of data created
  -  217 new mobile web users

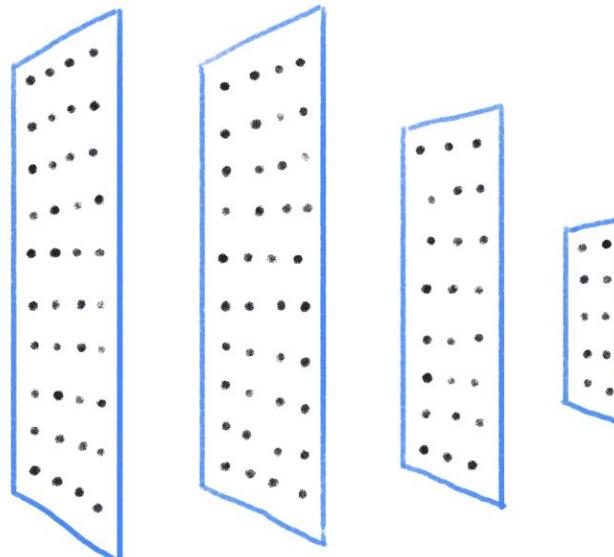
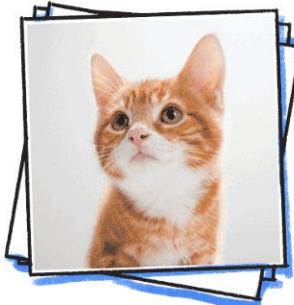


The background of the diagram features a classic painting of a starry night sky with swirling blue and yellow patterns.

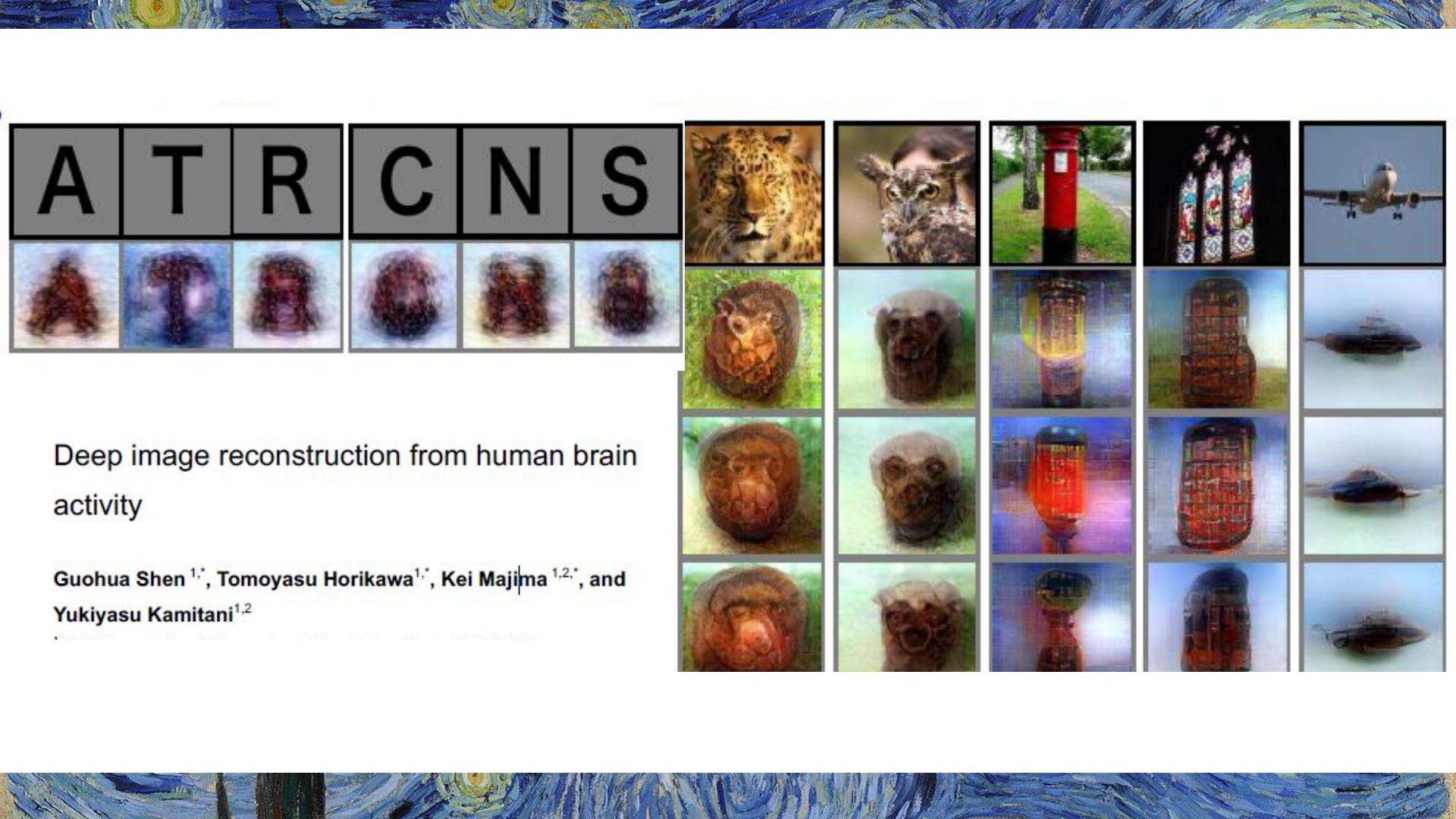
CAT

(LABLED  
PHOTOS)

DOG





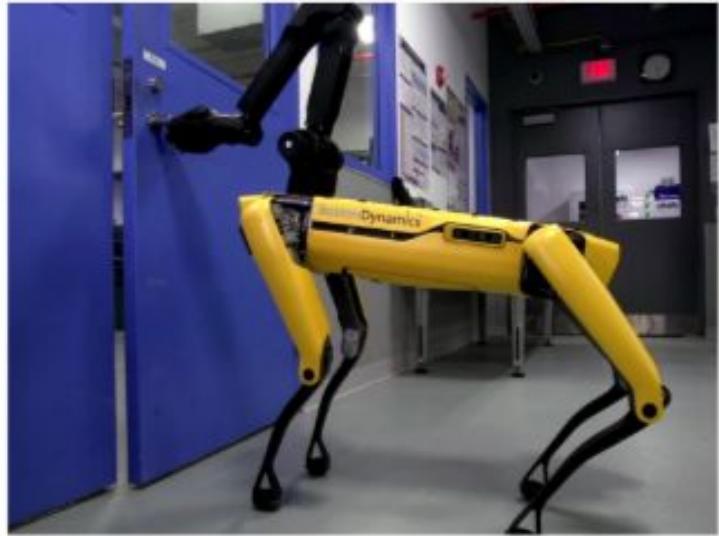


# Deep image reconstruction from human brain activity

Guohua Shen<sup>1,\*</sup>, Tomoyasu Horikawa<sup>1,\*</sup>, Kei Majima<sup>1,2,\*</sup>, and Yukiyasu Kamitani<sup>1,2</sup>

<sup>1</sup>RISE, Kyoto University, Kyoto, Japan; <sup>2</sup>Graduate School of Engineering, Kyoto University, Kyoto, Japan







This is the first draft.

Authors: Dabi Ahn([andabi412@gmail.com](mailto:andabi412@gmail.com)), Kyubyong Park([kbpark.linguist@gmail.com](mailto:kbpark.linguist@gmail.com))

We always welcome any questions, new ideas, or contributions.

## oles

perfect yet, but listen to [them](#).

you could imitate a famous celebrity's voice or sing like a famous singer? This project started with a goal to convert someone's voice to a specific target voice. So called, it's voice style transfer. We worked on this project that convert someone's voice to a famous English actress [Kate Winslet's voice](#). We implemented a deep neural network to achieve that and more than 2 hours of audio book sentences read by Kate Winslet are used as a dataset.



~~el Architecture~~

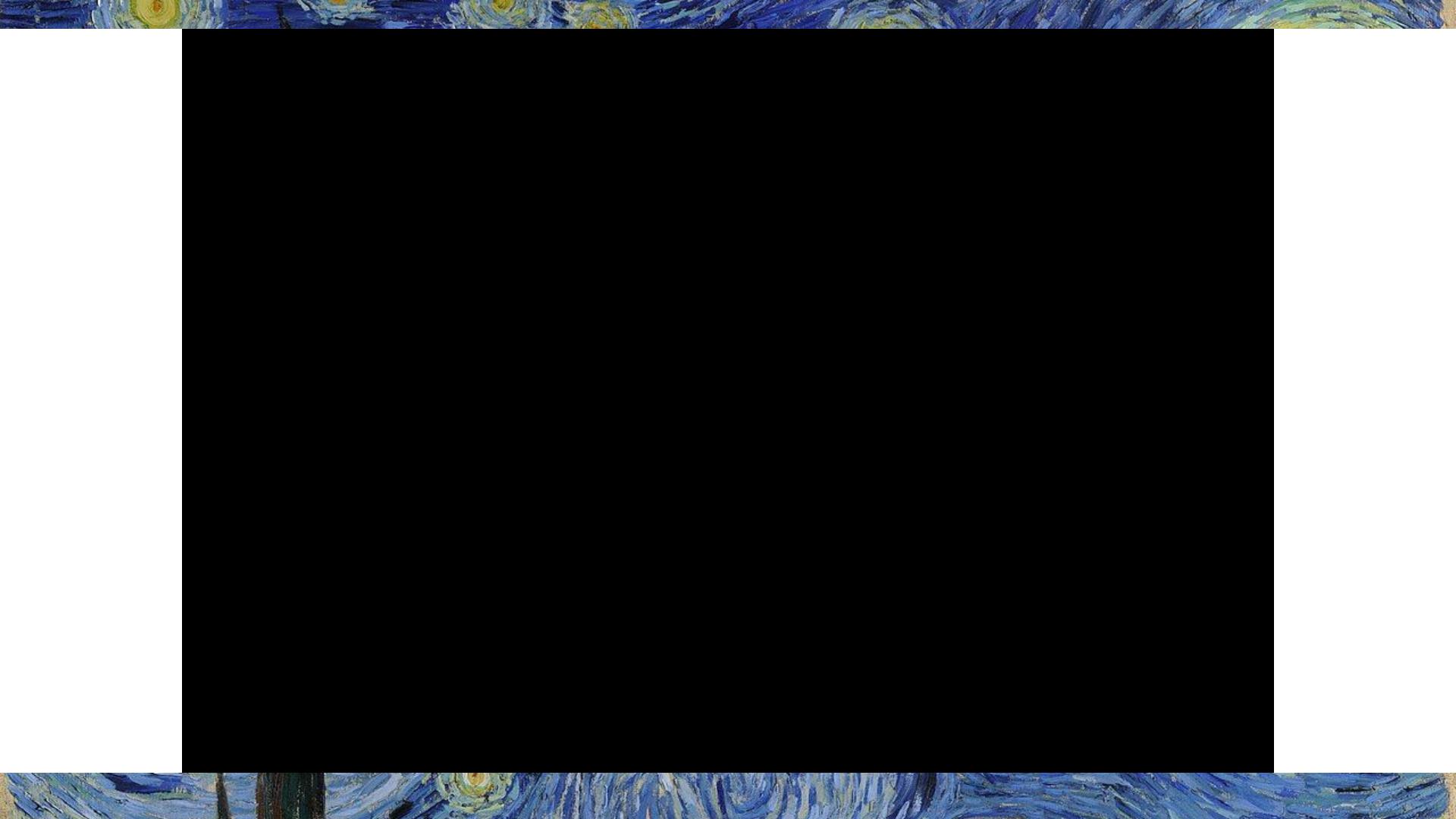
▶ ▶ ⏪ 1:45 / 21:01

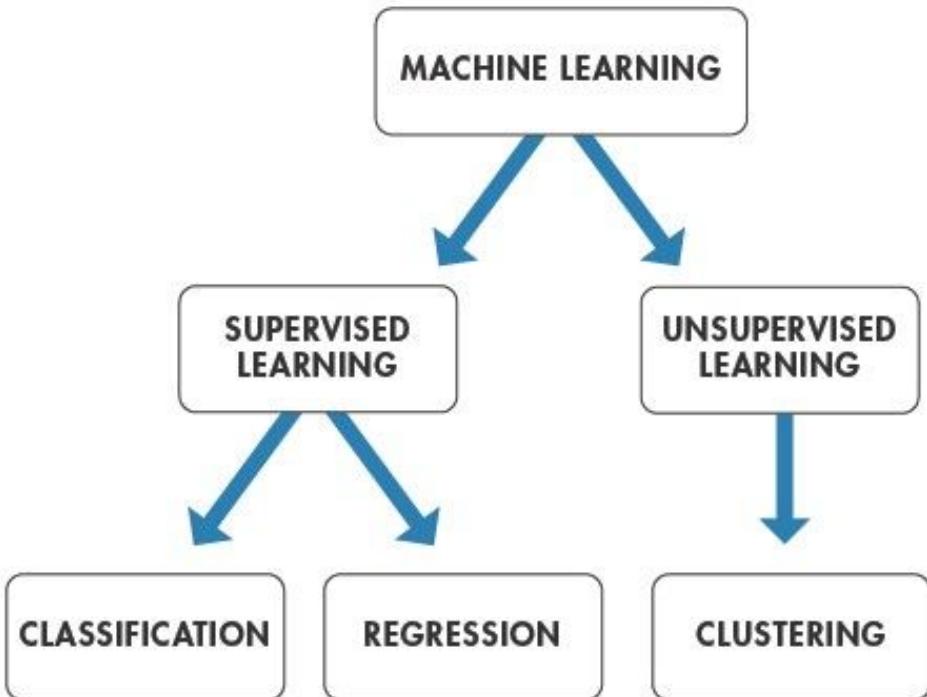
a many-to-one voice conversion system. The main significance of this work is that we could generate a target

The video player interface shows a man in a white shirt speaking. To his right is a code editor window displaying a file list with line numbers. The code editor lists files such as data\_load.py, eval1.py, eval2.py, hpams.py, models.py, modules.py, README.md, requirements.txt, train1.py, train2.py, and utils.py. The 'models.py' file is currently selected. Below the code editor is a YouTube-style interface with a 'SUBSCRIBE' button and other video controls.

File	Line Number
data_load.py	28
eval1.py	29
eval2.py	30
hpams.py	31
models.py	32
modules.py	33
README.md	34
requirements.txt	35
train1.py	36
train2.py	37
utils.py	38
	39
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Neural Network Voices





- Autos autónomos (robótica)
- Sistemas de recomendación
- Traducción
- Análisis de imágenes
- Baja de usuarios
- Atención al cliente
- Business intelligence
- Diagnóstico y rehabilitación médicos, Neurofeedback
- FaceApp, Máscaras de instagram
- ...



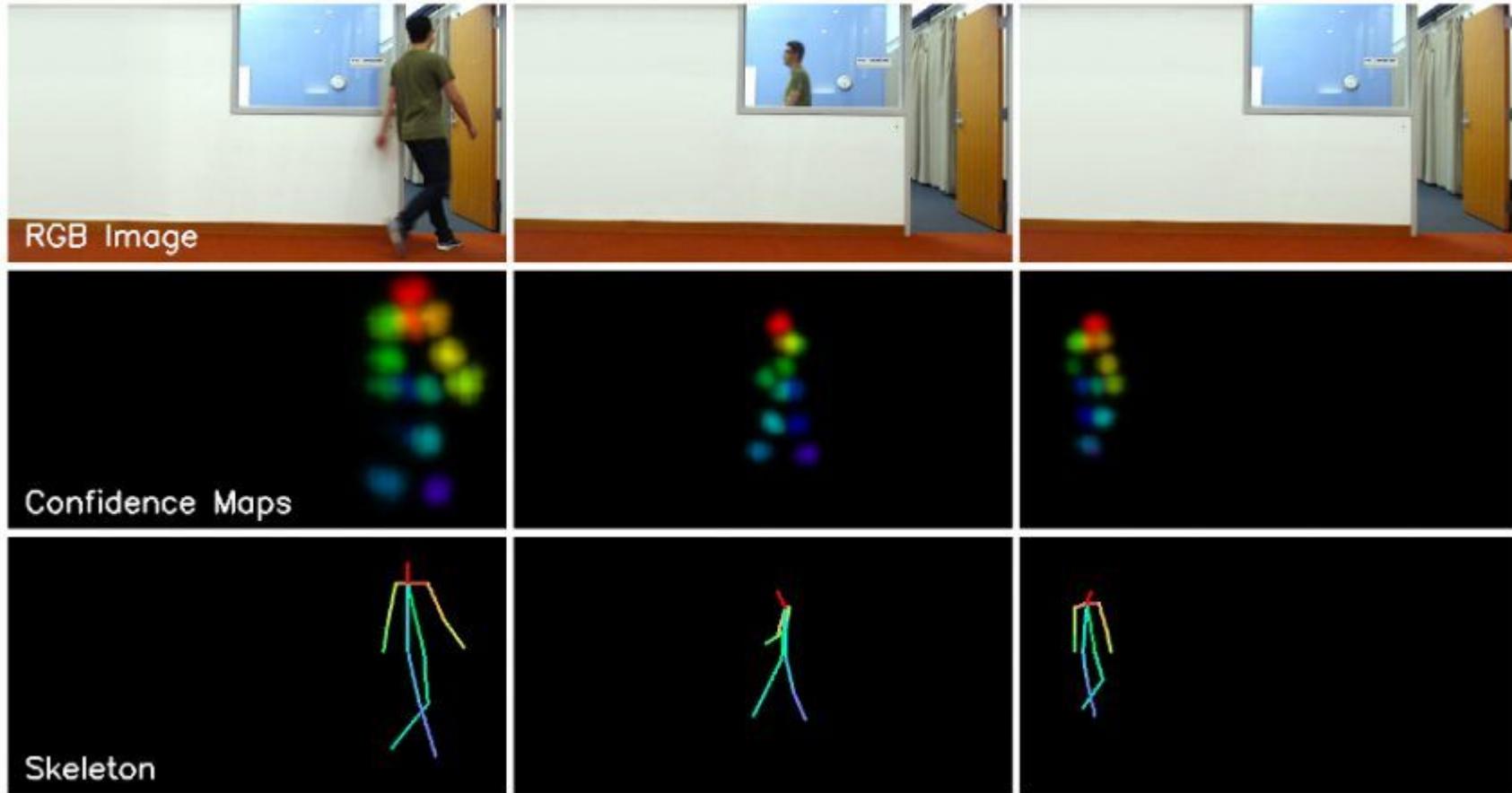
Sofía, en la AI summit 2018



**Imagination-Augmented Agents  
for Deep Reinforcement Learning**

Théophane Weber\*, Sébastien Racanière\*, David P. Reichert\*, Lars Buesing  
Arthur Guez, Danilo Rezende, Adria Puigdomènech Badia, Oriol Vinyals  
Nicolas Heess, Yujia Li, Razvan Pascanu, Peter Battaglia  
Demis Hassabis, David Silver, Daan Wierstra  
DeepMind

**Abstract**  
We introduce Imagination-Augmented Agents (I2As), a novel agent–environment interaction paradigm for deep reinforcement learning combining a learned model of the environment with imagination. I2As learn to trust their imagination to make better decisions in environments where the agent cannot explore fully or where exploration is costly. We show that I2As can learn to play complex games such as StarCraft II and Dota 2, and solve challenging tasks such as the 3D navigation task in the OpenAI Gym.





# **Accesibilidad**



## Te damos la bienvenida a Colaboratory

Colaboratory es un proyecto de investigación de Google creado para divulgar contenido de investigación y formación sobre el aprendizaje automático. Es un entorno de Jupyter Notebook que no requiere configuración y que se ejecuta completamente en la nube.

Los cuadernos de Colaboratory se almacenan en [Google Drive](#), y puedes compartirlos como harías con Hojas de cálculo o Documentos de Google. Colaboratory es un servicio gratuito.

Puedes consultar más información en la sección de [preguntas frecuentes](#).

## Compatibilidad con tiempos de ejecución locales

Colaboratory también te permite conectarte a un tiempo de ejecución de Jupyter en tu equipo local. Puedes consultar más información en la [documentación](#).

### ▼ Python 3

Colaboratory permite ejecutar código Python 2 y Python 3.

- Cuando crees un cuaderno, podrás elegir entre Python 2 y Python 3.
- También puedes cambiar el idioma asociado a cada cuaderno; esta información se guardará en el archivo .ipynb, por lo que estará disponible en otras sesiones.

```
[ ] import sys  
print('Hello, Colaboratory from Python {}!'.format(sys.version_info[0]))
```

Procesamiento en  
la nube

Nueva pestaña X KamitaniLab/GenericObjectDecoding X

Importados | https://github.com/KamitaniLab/GenericObjectDecoding

Importados (2)

Branch: master ▾ New pull request

Create new file Upload files Find file **Clone or download ▾**

**ShuntaroAoki Add prototxt files for CNN nets** Latest commit bcae869 on 13 Jul 3 months ago

code	[docs] add comments
data	Add prototxt files for CNN nets
docs	Set theme jekyll-theme-cayman
.gitignore	Add .gitignore
README.md	Update README.md

README.md

Source Code

## Generic Object Decoding

This repository contains the data and demo codes for replicating results in our paper: Horikawa, Kamitani "Generic decoding of seen and imagined objects using hierarchical visual features". The generic object decoding approach enabled decoding of arbitrary object categories including those not used in model training. For more technical details, please refer to the paper: <https://www.nature.com/articles/ncomms15037>.

### Data (fMRI data and visual features)

The preprocessed fMRI data for five subjects (training, test\_perception, and test\_imagery) and visual features (CNN1-8, HMAX1-3, GIST, and SIFT) are available at [http://brainliner.jp/data/brainliner/Generic\\_Object\\_Decoding](http://brainliner.jp/data/brainliner/Generic_Object_Decoding). The fMRI data were saved as the BrainDecoderToolbox2 format (<https://github.com/KamitaniLab/BrainDecoderToolbox2>). The unpreprocessed fMRI data is available from the OpenNeuro (<https://openneuro.org/datasets/ds001246>).

Material Increíble

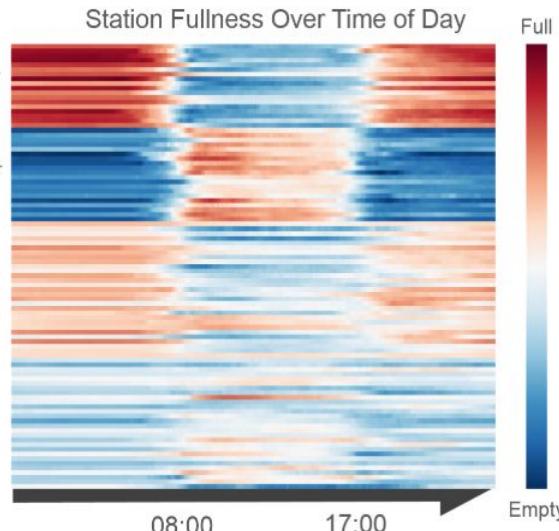
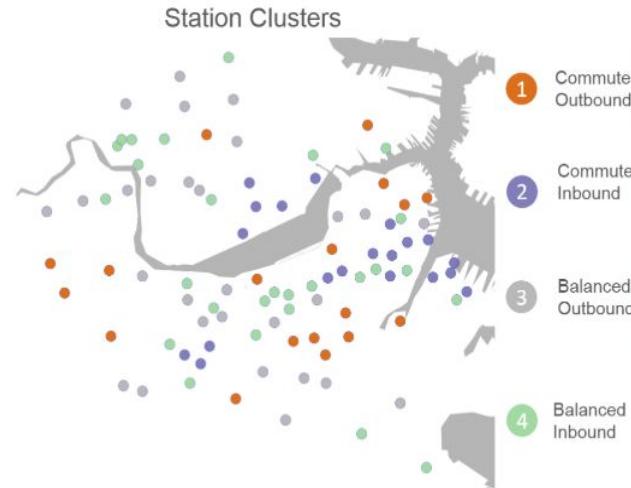
CS109

Home Slides/Videos Piazza Syllabus Schedule GitHub Projects Resources



HARVARD  
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and Applied Sciences

## CS109 Data Science



Material Increíble

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## CS109

### Information Theory

COURSE HOME



SYLLABUS

LECTURE NOTES

ASSIGNMENTS

EXAMS

DOWNLOAD COURSE MATERIALS



Information Theory is the study of the transmission of information, including fundamental transmission limits, optimal encoding, and error correction. (Photo courtesy of [Suzanne Chapman](#), CC-BY-NC-SA)

#### Course Features

> [Lecture notes](#)

> [Assignments, problem sets \(no solutions\)](#)

Instructor(s)

Prof. Yury Polyanskiy

MIT Course Number

6.441

As Taught In

Spring 2016

Level

Graduate

[CITE THIS COURSE](#)

## Material Increíble

CURSOS >  
APLICACIONES DE LAS DERIVADAS MULTIVARIABLES

Multiplicadores de Lagrange y optimización con restricciones

multiplicadores de Lagrange

Ejemplo de multiplicadores de Lagrange. Parte 1

Ejemplo de multiplicadores de Lagrange. Parte 2

El Lagrangiano

Prueba del significado de los multiplicadores de Lagrange

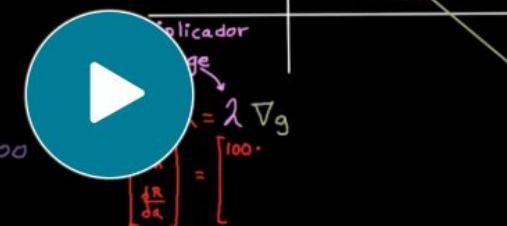
Dispositivos

mano de obra \$20/hora  
acero \$2,000/tonelada

$$R(h, a) = 100 h^{\frac{2}{3}} a^{\frac{1}{3}}$$

Presupuesto = \$20,000

$$20h + 2,000a = 20,000$$
$$g(h, a) \uparrow$$



▶ 0:00 / 13:31



¿Estás estudiando para un examen? Prepárate con estas 6 lecciones sobre Aplicaciones de las derivadas multivariadas.

[Ve las 6 lecciones](#)

## Ejemplo de multiplicadores de Lagrange. Parte 1

coursera

Explorar ▾

Q ¿Qué deseas aprender?

Ma

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y optimiz  
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El Lagr

Prueba  
los mult  
Lagrange

Un vistazo

Programa

Preguntas Frecuentes

Creadores

Calificaciones y revisiones

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Comenzó el Aug 20

Solicitar Ayuda Económica

Inicio &gt; Ciencia de Datos &gt; Aprendizaje Automático

# Machine Learning

**Acerca de este curso:** Machine learning is the science of getting computers to act without being explicitly programmed. In the past decade, machine learning has given us self-driving cars, practical speech recognition, effective web search, and a vastly improved understanding of the human genome. Machine learning is so pervasive today that you probably use it dozens of times a day without knowing it. Many

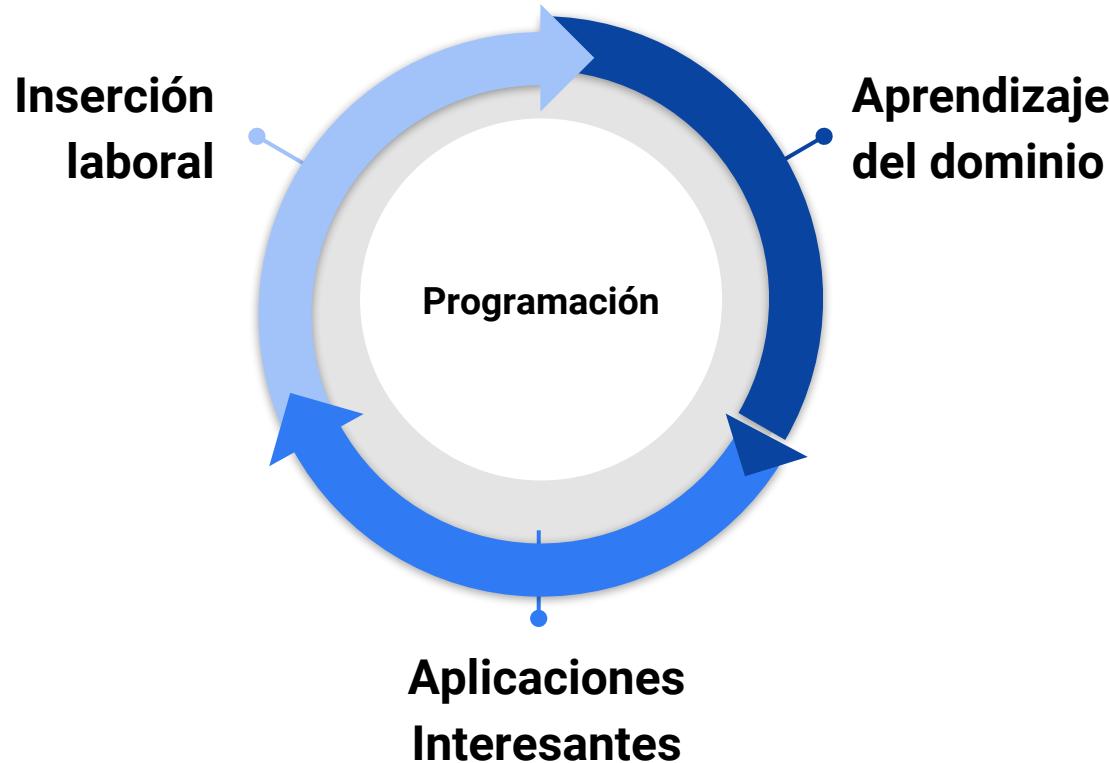
Machine learning is so pervasive today that you probably use it dozens of times a day without knowing it. Many people use machine learning in their daily lives, from self-driving cars, to practical speech recognition, to effective web search, to a vastly improved understanding of the human genome. Machine learning is so pervasive today that you probably use it dozens of times a day without knowing it. Many

▼ Más

**Creada por:** Stanford University



**Enseñado por:** [Andrew Ng](#), Co-founder, Coursera; Adjunct Professor, Stanford University; formerly head of Baidu AI Group/Google Brain









# Muchas gracias!



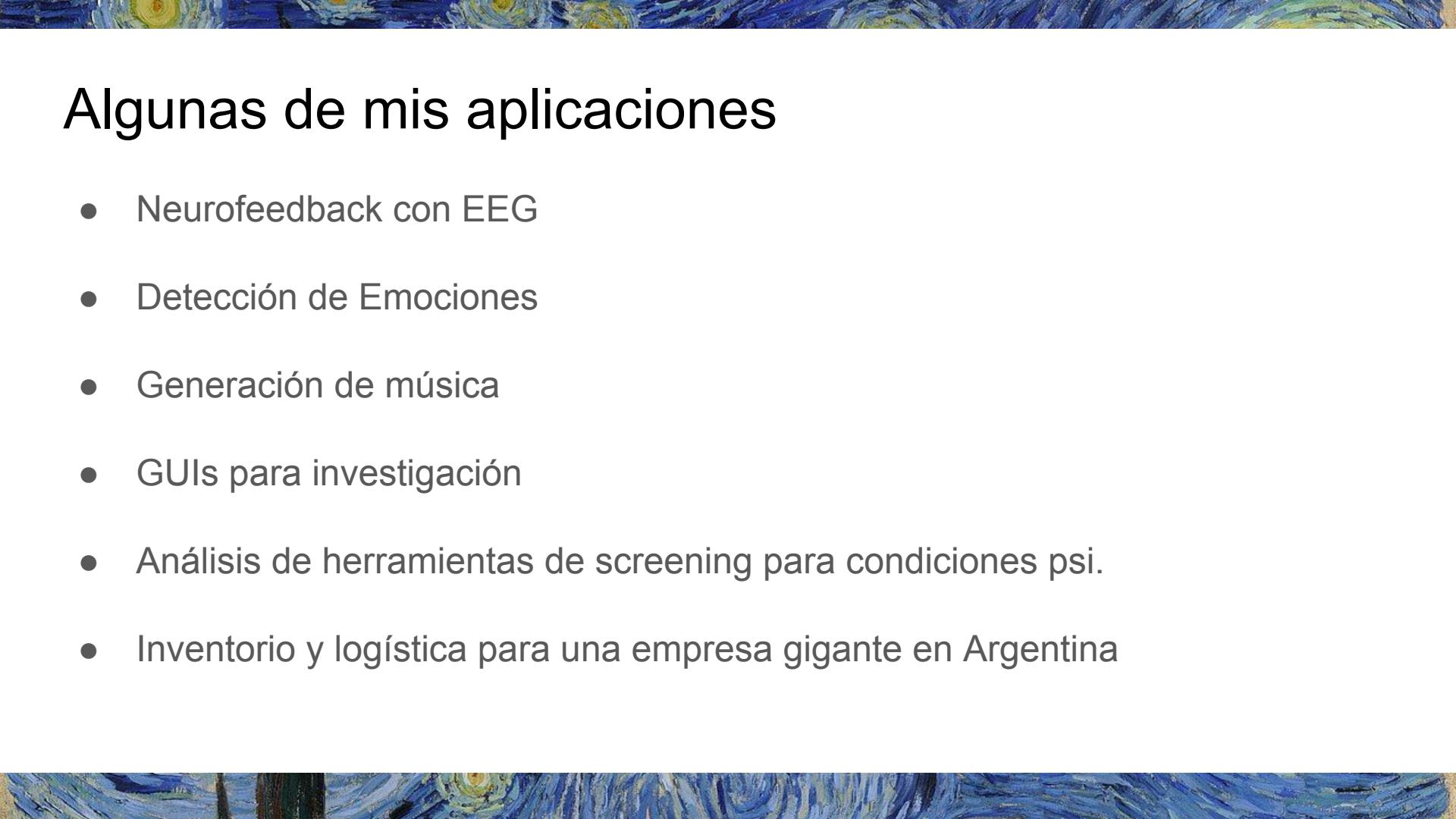
Matías Grinberg



cerebrock

Digital  
House >  
Coding School

[mgrinberg@digitalhouse.com](mailto:mgrinberg@digitalhouse.com)

A horizontal strip of the famous painting "The Starry Night" by Vincent van Gogh, showing swirling blue and yellow starry skies.

# Algunas de mis aplicaciones

- Neurofeedback con EEG
- Detección de Emociones
- Generación de música
- GUIs para investigación
- Análisis de herramientas de screening para condiciones psi.
- Inventario y logística para una empresa gigante en Argentina

# Ejemplos faciles:

Metrónomo

Whatsapp

Instagram seguidores

Facebook chatbot (ramiro)

Música improvisada

AutoGUI

Telegram API

Otros comentarios: modelos 3d de foto