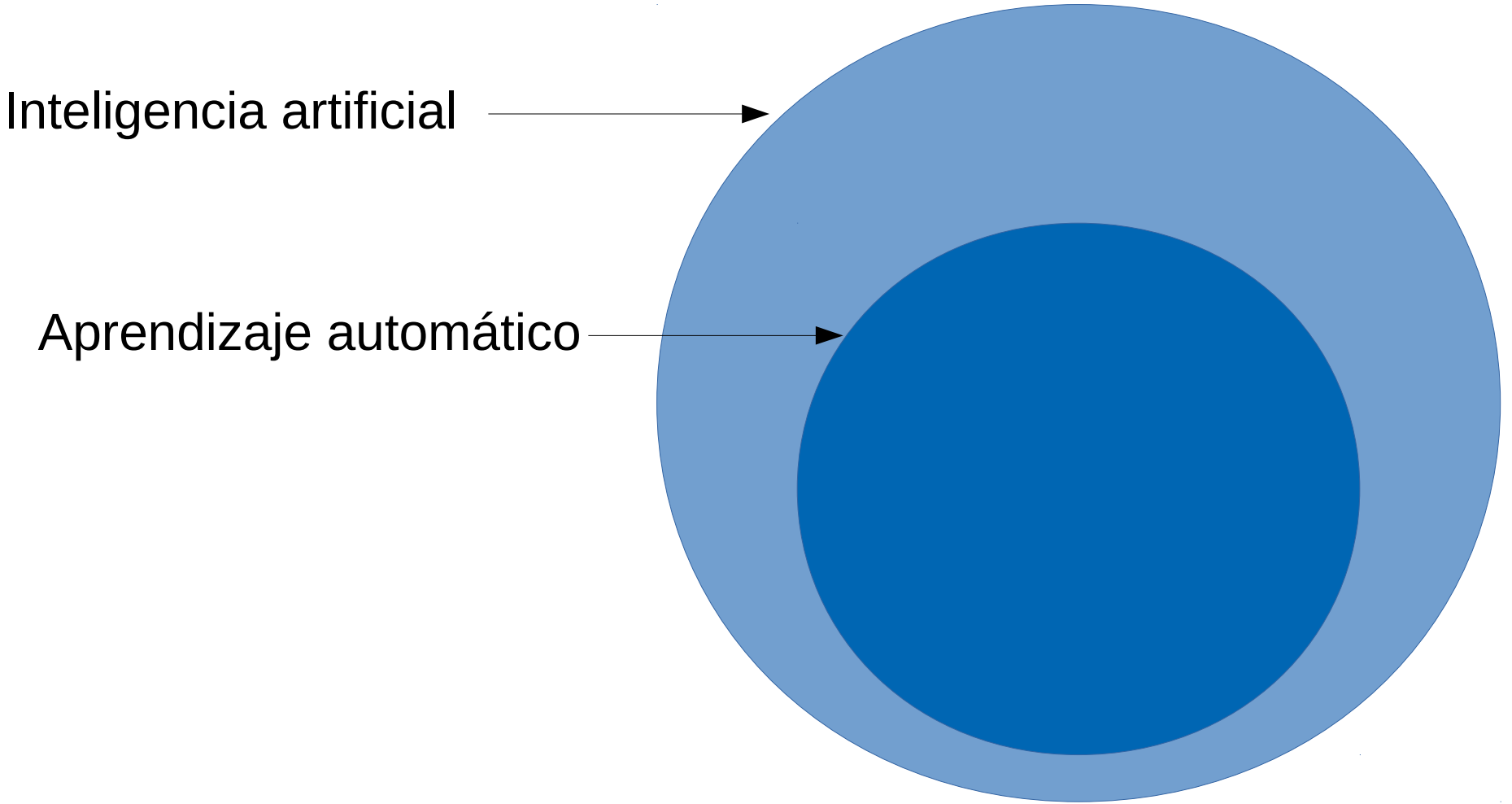
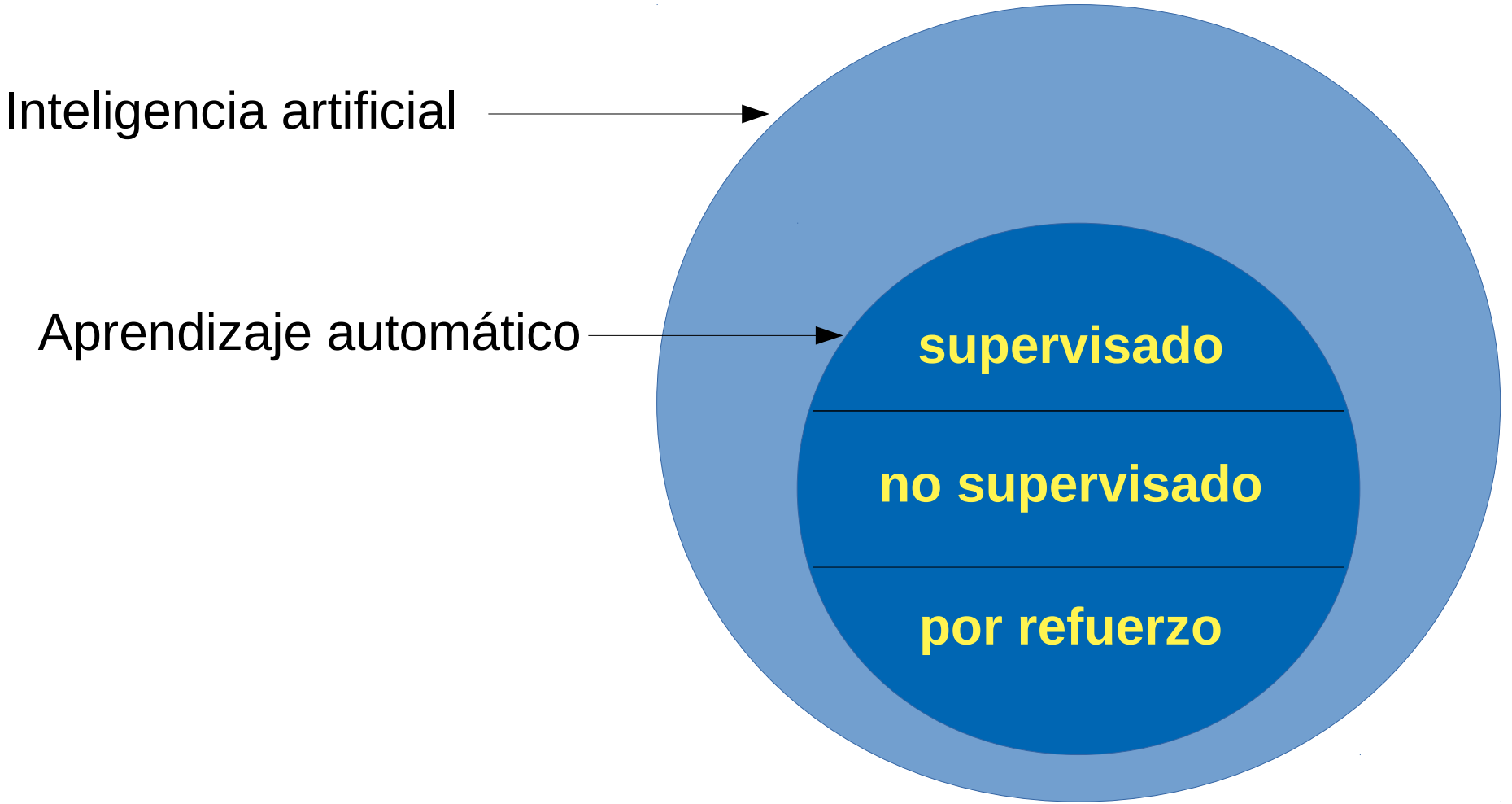
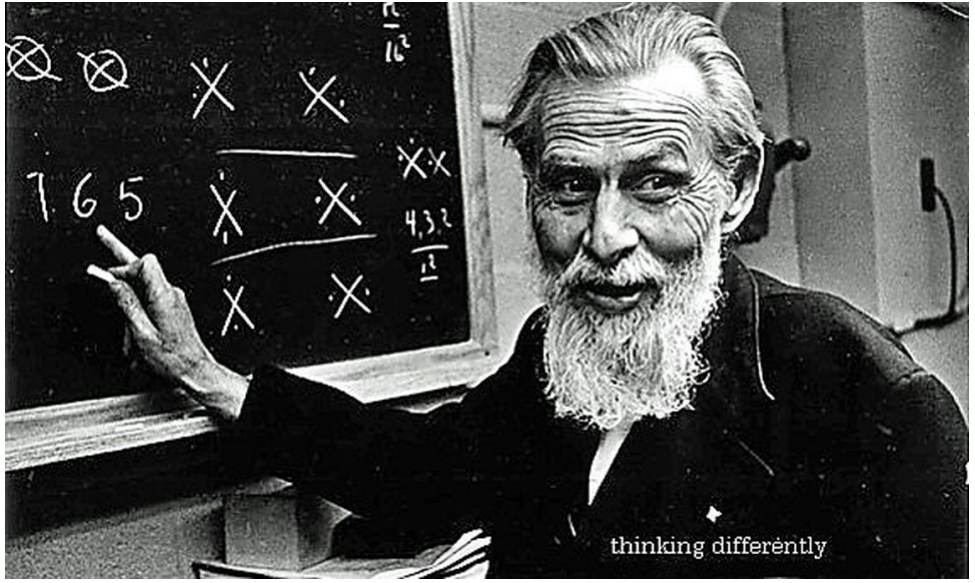
¿**Qué es** la inteligencia artificial?

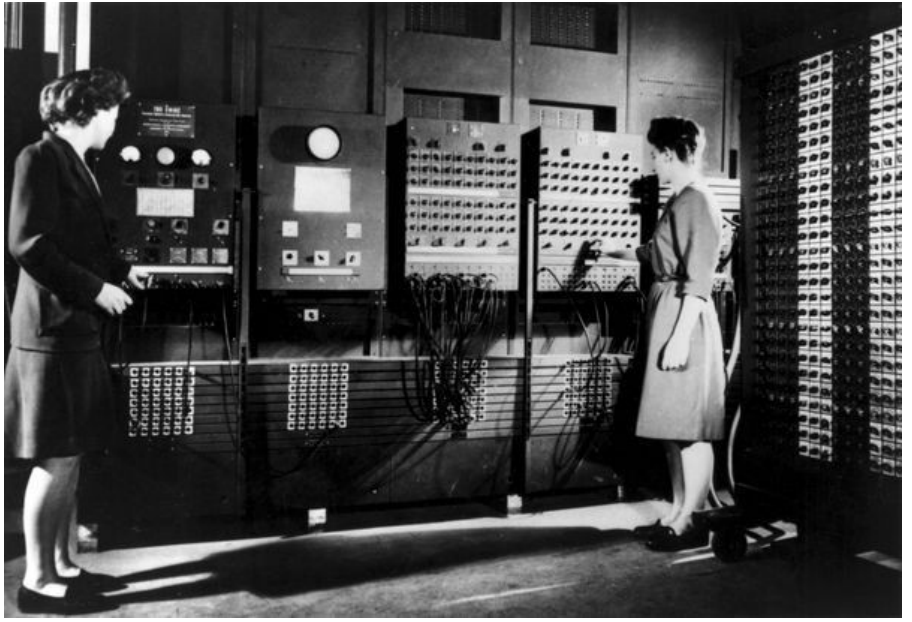

Inteligencia artificial
Aprendizaje automático


Inteligencia artificial
Aprendizaje automático
supervisado
no supervisado
por refuerzo

1943

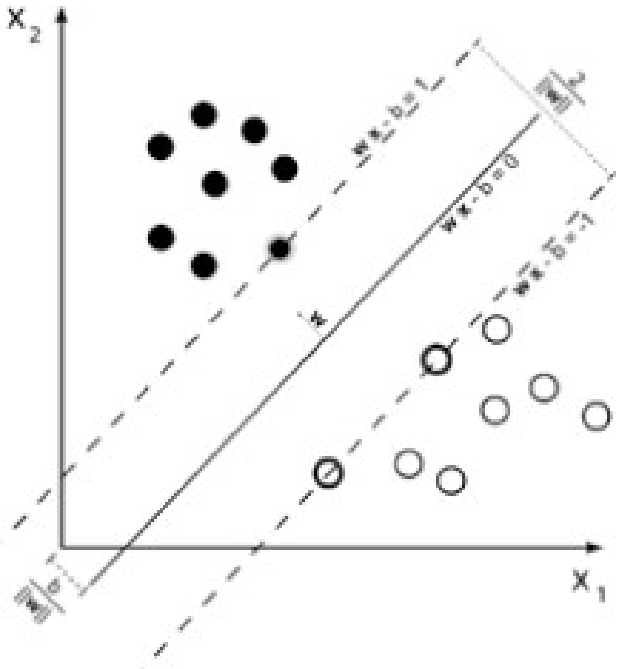


1945



1952-55

1963

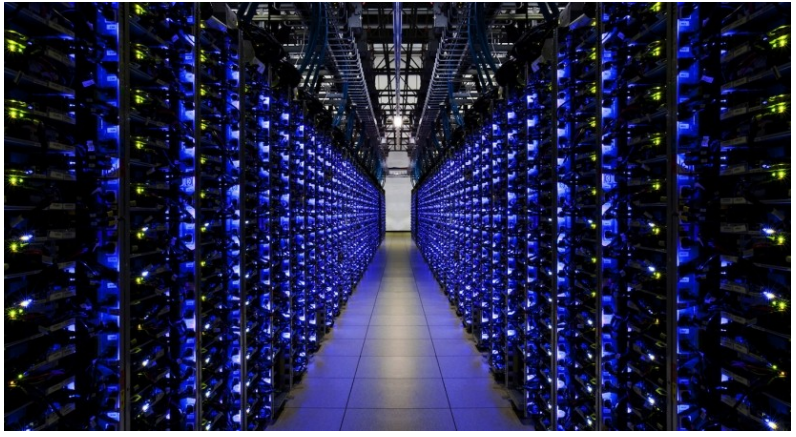


1970-80

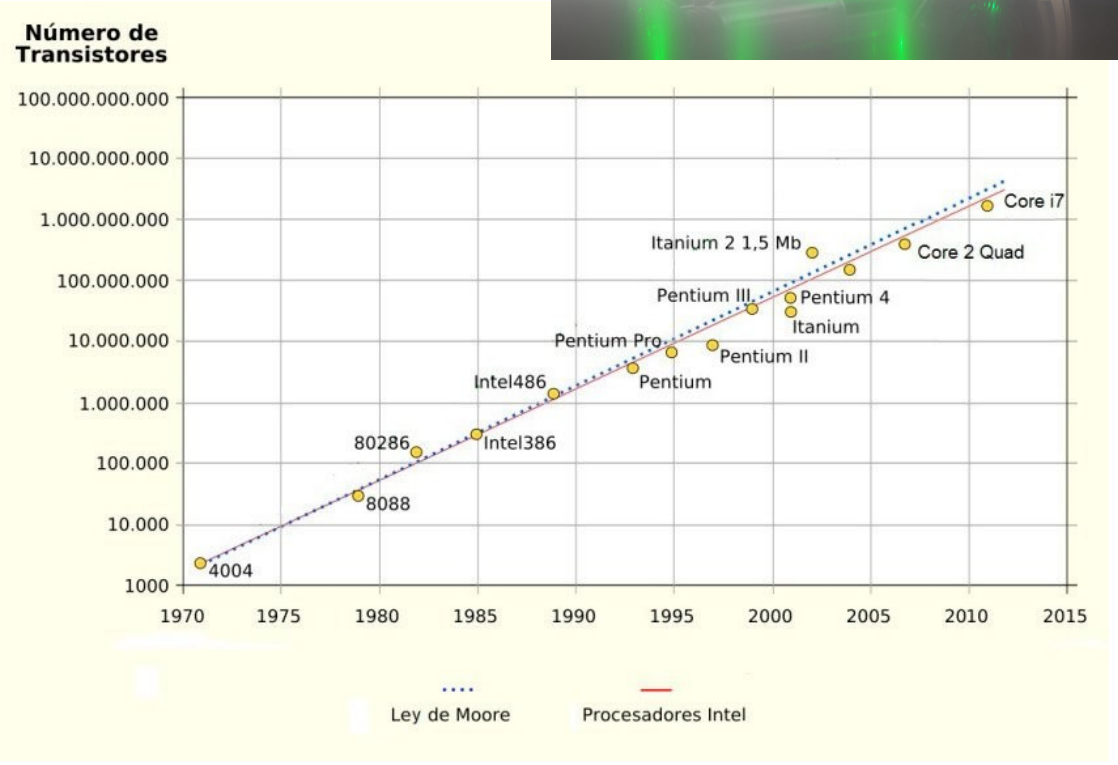
1985...

AI winter

Poder computacional



Muchos,
MUCHOS datos

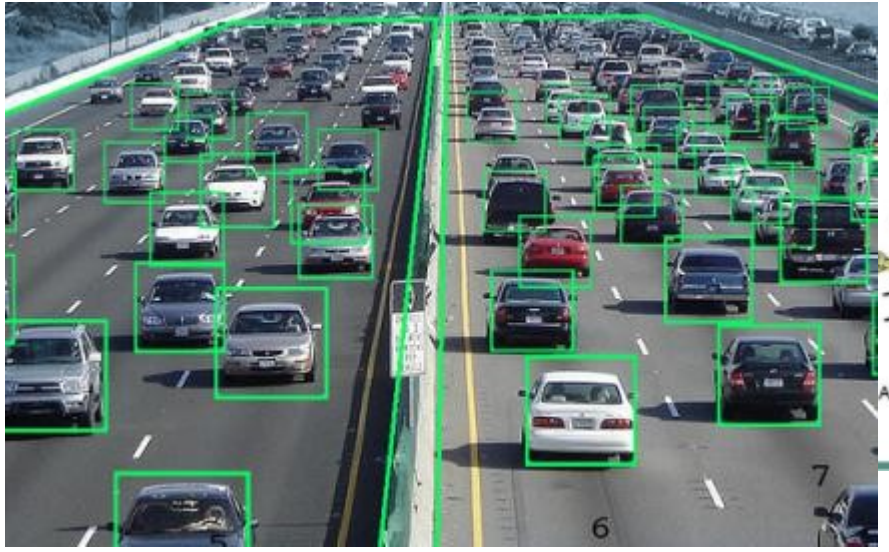


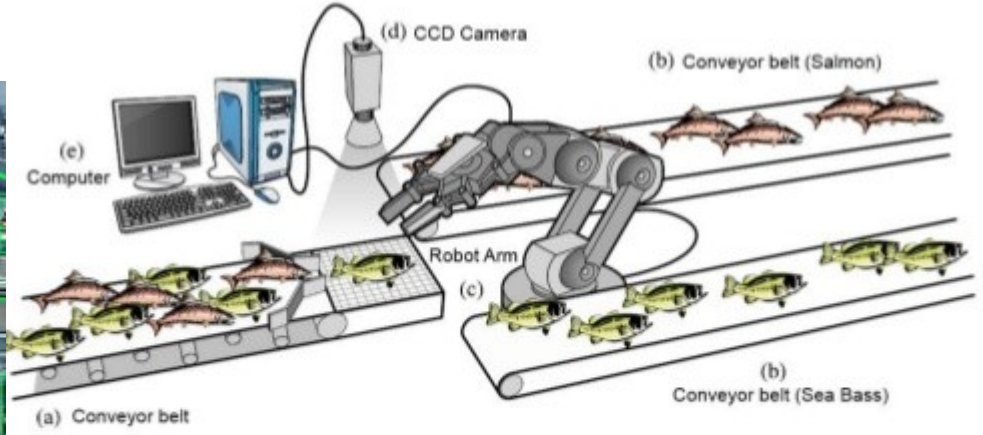
2009…

2012…

08_ Example of PR Applications

- Automatic fish classification (Sea Bass or Salmon)
  - A: Conveyor belt for fish
  - B: Conveyor belt for classified fish
  - C : Robot arm for grabbing fish
  - D: Machine vision system with CCD camera
  - E : Computer that analyze fish image and control the robot arm





Automated Fish Classification System

2012…

Translate from **Spanish** (detected)

No seas gallina
Estás como una cabra

Translate into **English**

Don't be such a chicken.
You're out of your mind.

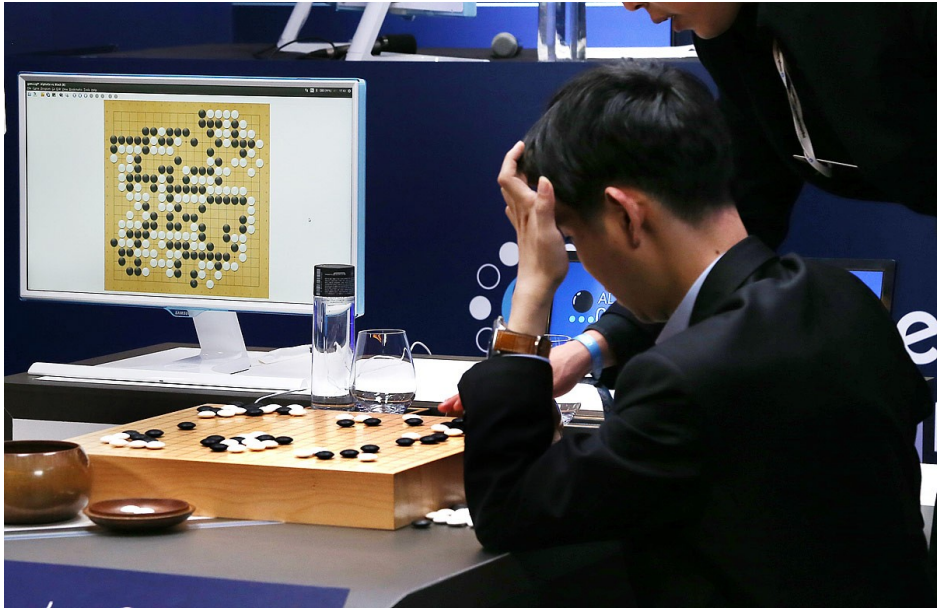
2012…

Advertiser
Advertiser
Advertiser
Advertiser
Ad Network
Ad Request [User: XYZ, App: 003]
Ad personalized for XYZ
Ad Request [User: XYZ, App: 028]
Ad personalized for XYZ
Ad Request [User: XYZ, App: 059]
Ad personalized for XYZ
Ad Request [User: XYZ, App: 074]
Ad personalized for XYZ

2014…

DeepMind

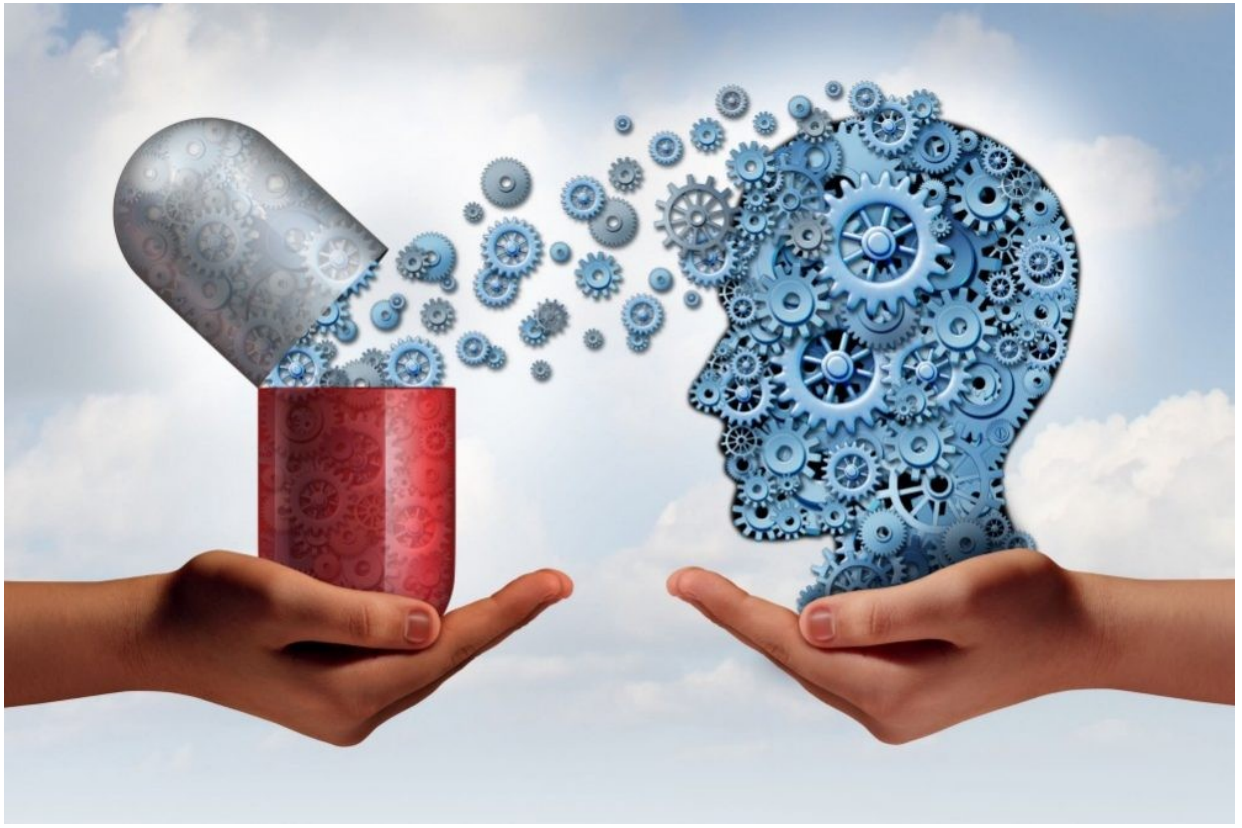
2015



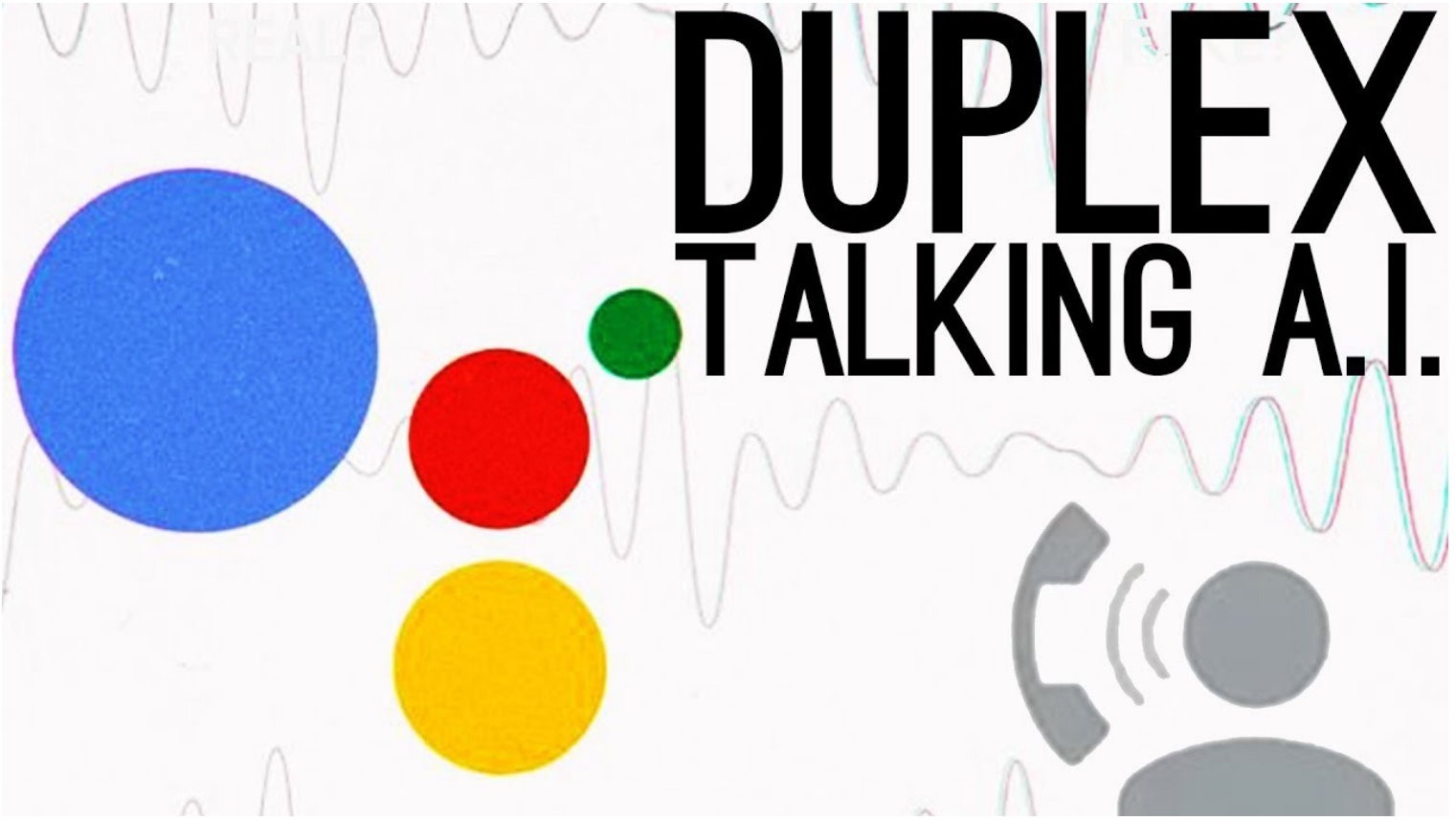
2015-7...

OpenAI

2018

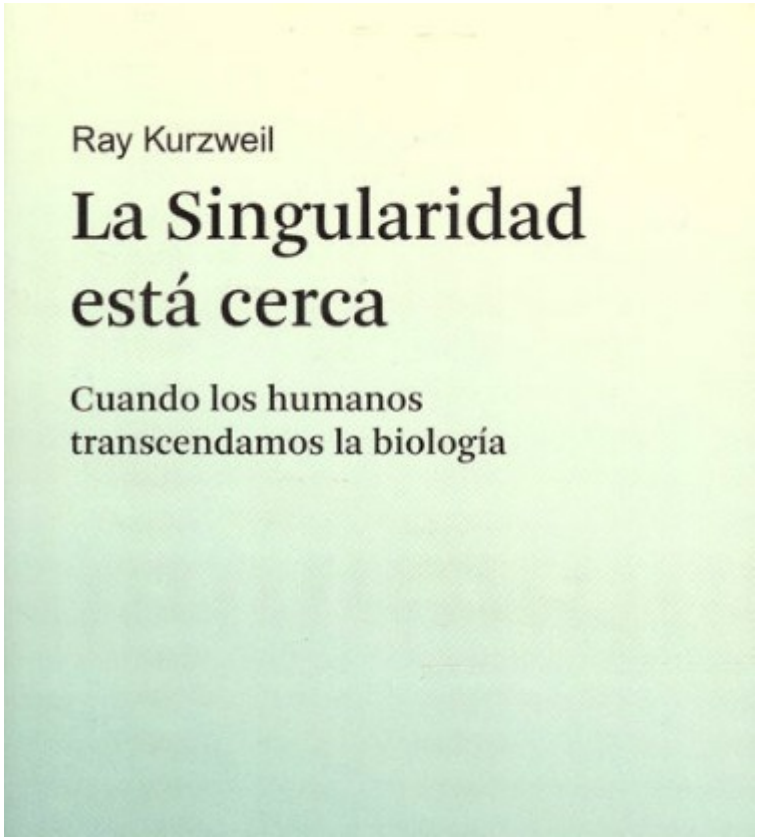


Mayo
2018



Libro

¿y **después**
qué pasará?



Aspectos técnicos:

¿Cómo me inicio?

¿Qué lenguaje uso?

Si vas a usarlo esporádicamente...

Deep Learning Prerequisites: Linear Regression in Python

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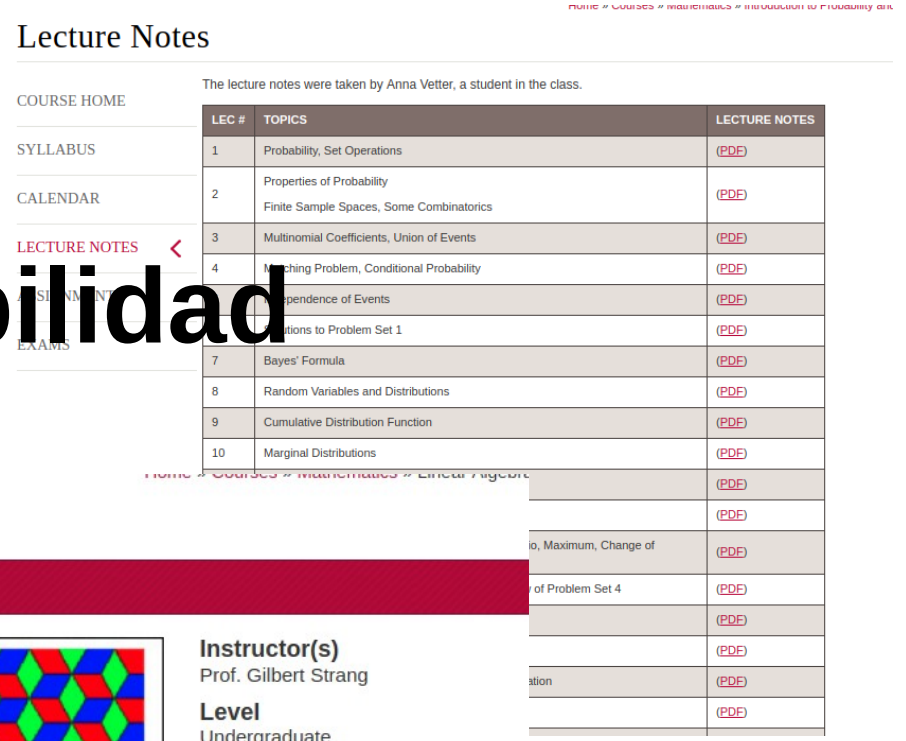
Si vas en serio...

MIT
Álgebra lineal
Estadística y probabilidad



Lecture Notes

COURSE HOME
SYLLABUS
CALENDAR
LECTURE NOTES
ASSIGNMENTS
EXAMS

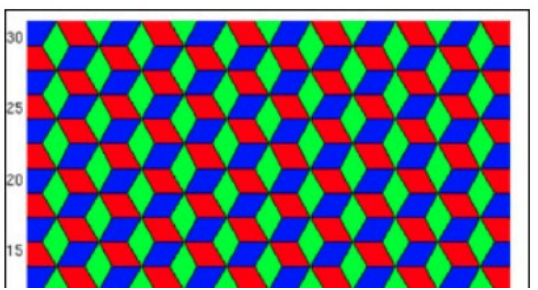
The lecture notes were taken by Anna Vetter, a student in the class.

LEC #	TOPICS	LECTURE NOTES
1	Probability, Set Operations	(PDF)
2	Properties of Probability Finite Sample Spaces, Some Combinatorics	(PDF)
3	Multinomial Coefficients, Union of Events	(PDF)
4	Matching Problem, Conditional Probability	(PDF)
	Independence of Events	(PDF)
	Solutions to Problem Set 1	(PDF)
7	Bayes' Formula	(PDF)
8	Random Variables and Distributions	(PDF)
9	Cumulative Distribution Function	(PDF)
10	Marginal Distributions	(PDF)
		(PDF)
		(PDF)
	Ratio, Maximum, Change of	(PDF)
	Solutions of Problem Set 4	(PDF)
		(PDF)
		(PDF)
	Derivation	(PDF)
		(PDF)

Linear Algebra

COURSE HOME
SYLLABUS
UNIT I: AX = B AND THE FOUR SUBSPACES

OCW Scholar



Instructor(s)
Prof. Gilbert Strang

Level
Undergraduate

CITE THIS COURSE

Y luego...

cs229.stanford.edu/syllabus.html

CS229 Schedule Su

Syllabus and Course Schedule

Time and Location: Monday, Wednesday 9:30-10:50am, NVIDIA Auditorium
Class Videos: Current quarter's class videos are available here for SCPD students and

Event	Date	Description	M
		Introduction (1 cl	
Lecture 1	9/25	1. Basic concepts	**Class Notes** • Supervised Learning, Discriminative Algorithms [ps] [pdf]
A0	9/25	**Problem Set 0** [pdf]. Submission instructions.	
		Supervised learning (5 classes)	
Lecture 2	9/27	1. Supervised learning setup. LMS.	
Section	9/29	Discussion Section: Linear Algebra	**Discussion Section**: Linear Algebra [Notes]
Lecture 3	10/2	2. Logistic regression. Perceptron. Exponential family.	
Lecture 4	10/4		
A1	10/4	**Problem Set 1** [pdf]. Out 10/4. Due 10/18. Submission instructions.	
Section	10/6	Discussion Section: Probability	**Discussion Section**: Probability[Notes][Slides]
Lecture 5	10/9	3. Generative learning algorithms. Gaussian discriminant analysis. Naive Bayes.	**Class Notes** • Generative Algorithms [ps] [pdf]

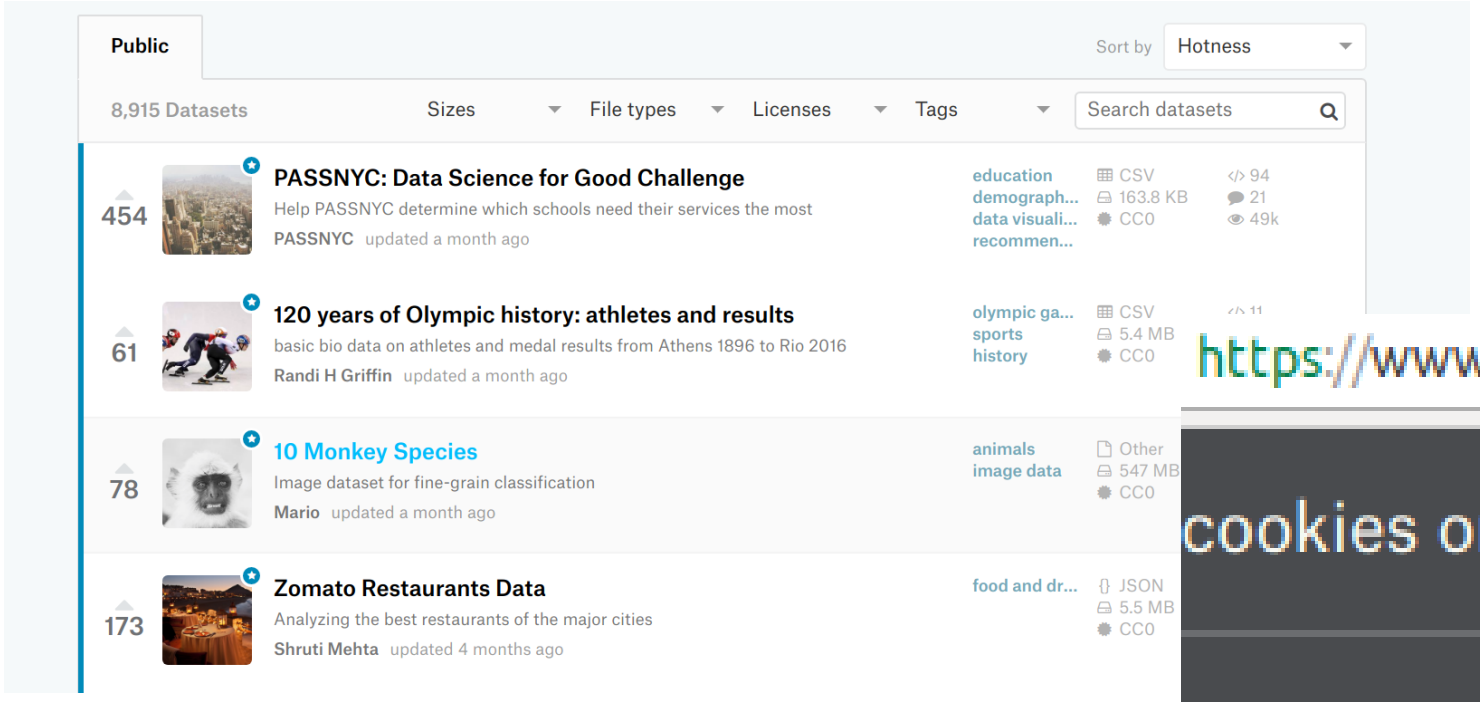
CS229: Machine Learning

Autumn 2017

Instructors

MIT
CS229
CS231

URL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