

Who owns the socking frame?

Conor Houghton

November 2023

SEMT, U Bristol

Henrietta Lacks

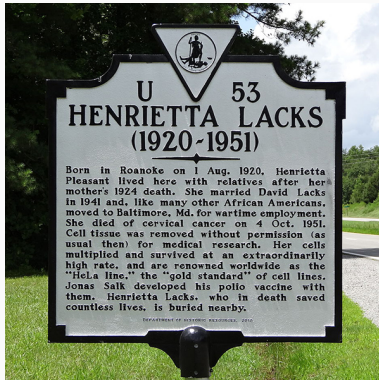


photo from Wikipedia

Florence Owens Thompson

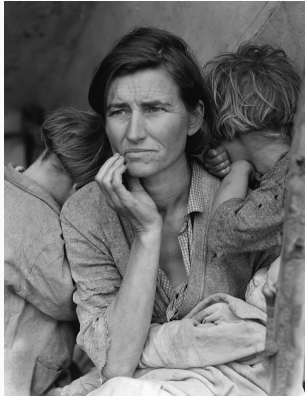


photo from anywhere on the internet

Modified National Institute of Standards & Technology dataset

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

photo from Wikipedia

Three questions

- * the existential: OMG!
- * the pragmatic: how can it help me?
- * the societal: how can we make sure it helps all of us?

The existential

I want to go back to our earlier discussion of the loss we feel when a writer dies; because of the strength of their voice in animating their works, they feel alive to us and so when they die we feel a bereavement which isn't really appropriate for the loss of someone we haven't met. I certainly felt that with the death of Angela Carter years ago and more recently, W.G. Sebald and Javier Marías. Can you write a haiku about that?

In worlds formed by ink,
Their voices forever dwell,
Writers, gone but felt.

by chat-GPT

beyond the limitations of any imaginable mechanism

The practical

The History of every major Galactic Civilization tends to pass through three distinct and recognizable phases, those of Survival, Inquiry and Sophistication, otherwise known as the How, Why, and Where phases. For instance, the first phase is characterized by the question 'How can we eat?' the second by the question 'Why do we eat?' and the third by the question 'Where shall we have lunch?

I would like to make an African style peanut stew but include rhubarb?

The practical

rewrite this so the data is in yyyy-mm-dd format

23/11/2023 Andrew

30/11/2023 Priyanka

07/12/2023 Oleg

14/12/2023 Individual groups

end of year hiatus

11/01/2023 Jake

18/01/2024 James McA

25/01/2024 Individual groups

01/02/2024 Kimberley

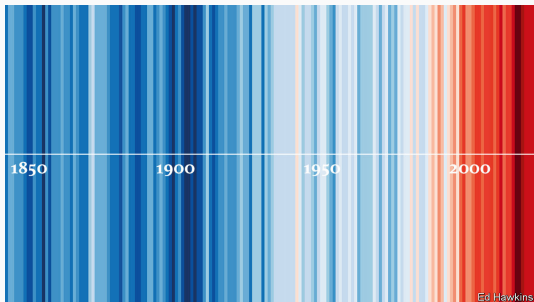
I want a julia function to convert a vector of zeros and one which represents an integer to the corresponding integer.

The rising tide

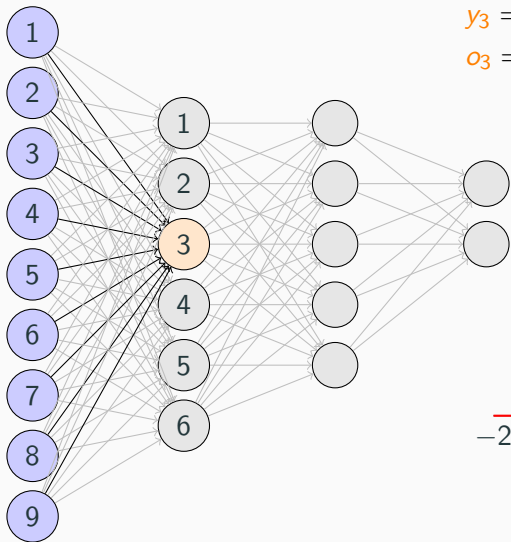


William Hogarth's Gin Alley

The commons grows

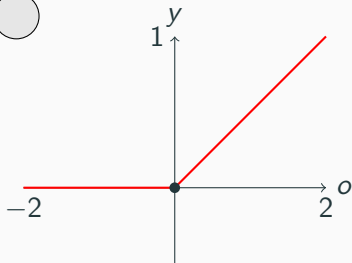


The Economist

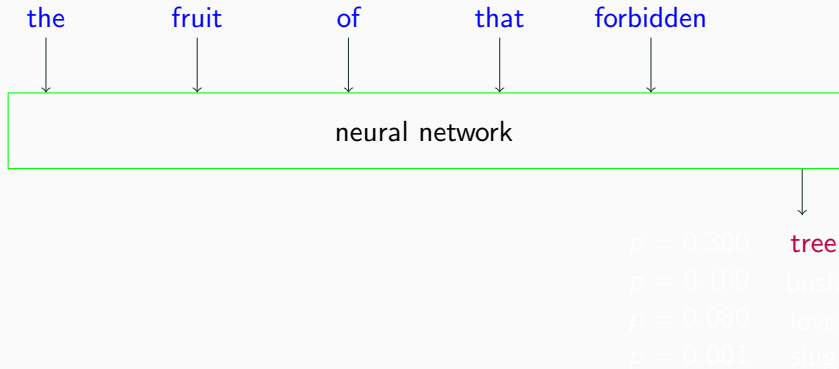


$$y_3 = w_{31}o_1 + w_{32}o_2 + \dots + w_{39}o_9$$

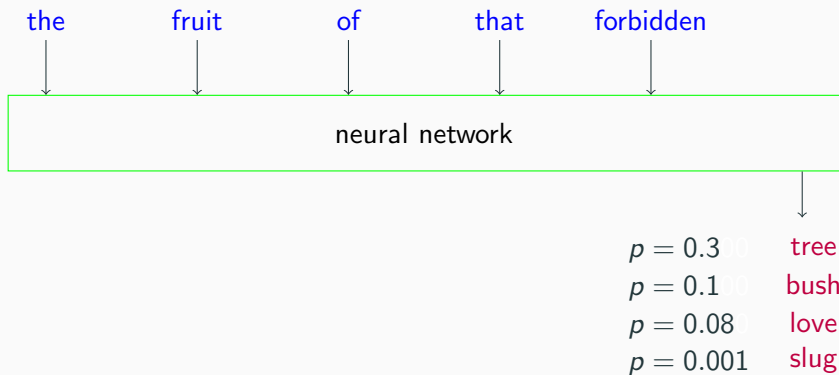
$$o_3 = \text{nonlinearity}(y_3)$$



Language



Probabilities



Objective function

$$E = [1 - p(\text{tree})] + p(\text{bush}) + p(\text{love}) + p(\text{slug}) + \dots$$

$$\delta w_{ij} = \frac{\partial E}{\partial w_{ij}}$$

Calculus is a shared resource



image from Wikipedia

Cuckoo clocks



The Massacre at Drogheda

What do we want?

- * Machine learning is important and surprising
- * It is a productivity miracle
- * Don't fear the machines, fear the machine makers

You're the measure of my dreams

The measure of my dreams

Shane McGowan - ar dheis dé do raibh a anam