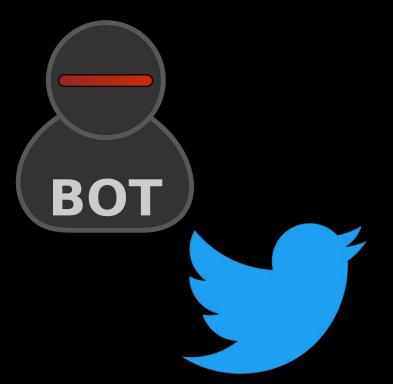
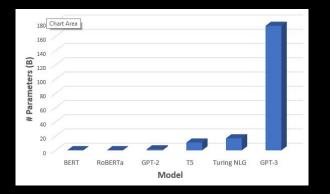
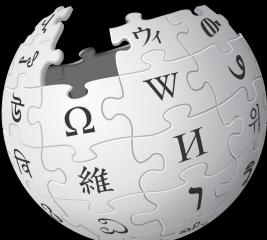
ML for Natural Language Processing

Motivación





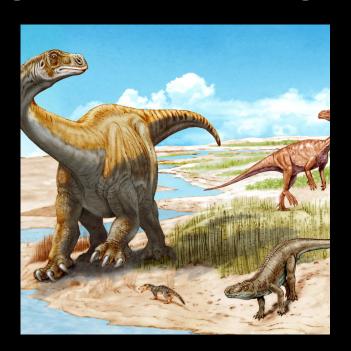




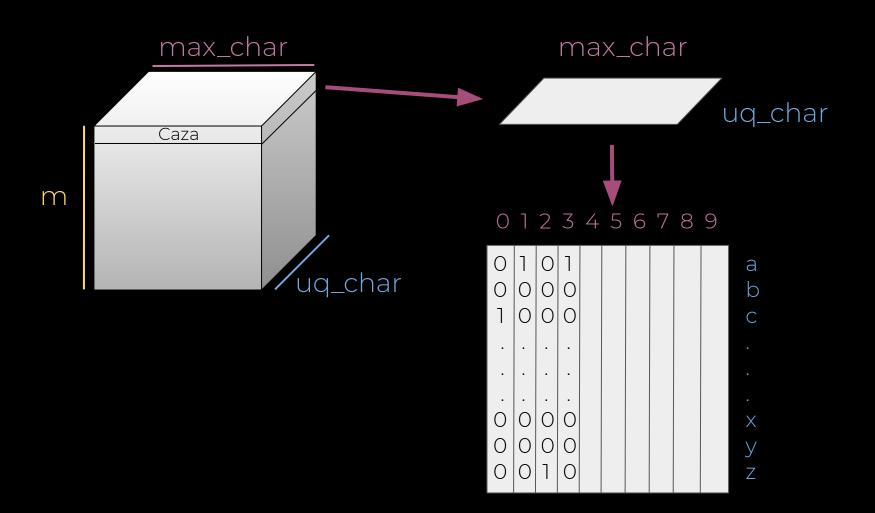


Character level language modelling

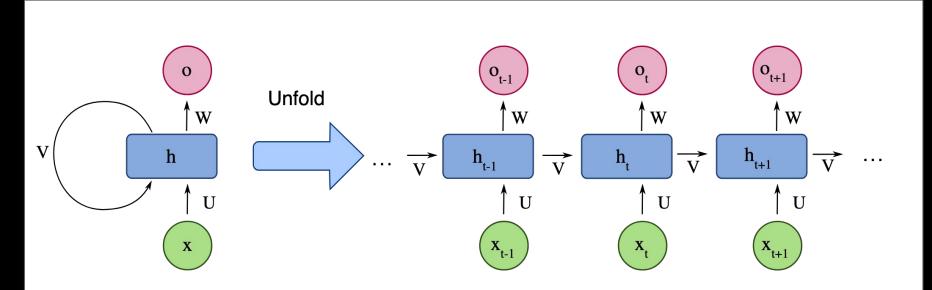




Let's get to the point now.



¿Qué es una RNN?



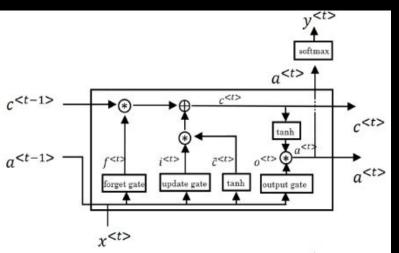
¿Qué hace una red neuronal recurrente?

P carácter siguiente | caracteres previos

vector de probabilidades = (0, 0, 0, 1, 0)

¿Qué es un LSTM?

```
\tilde{c}^{<t>} = \tanh(W_c[a^{<t-1>}, x^{<t>}] + b_c)
\Gamma_u = \sigma(W_u[a^{<t-1>}, x^{<t>}] + b_u)
\Gamma_f = \sigma(W_f[a^{<t-1>}, x^{<t>}] + b_f)
\Gamma_o = \sigma(W_o[a^{<t-1>}, x^{<t>}] + b_o)
c^{<t>} = \Gamma_u * \tilde{c}^{<t>} + \Gamma_f * c^{<t-1>}
a^{<t>} = \Gamma_o * \tanh c^{<t>}
```



Gracias.