



Cześć!

Krzysztof Bork-Ceszlak

Data Science Enthusiast, specialized in Deep Learning





Rekurencyjna sieć neuronowa



Rozkład jazdy:

- Koncepcja rekurencji
- Rodzaje sieci rekurencyjnych
- Praktyka
- Word embedding





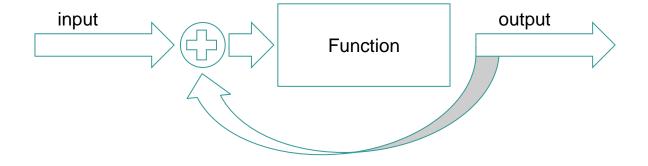
Czym jest rekurencja?



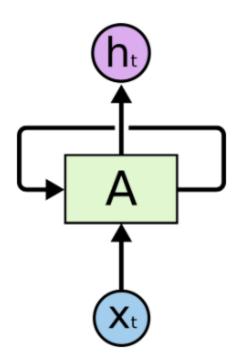




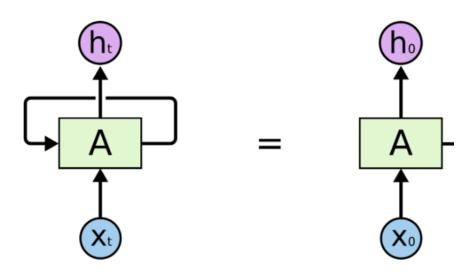




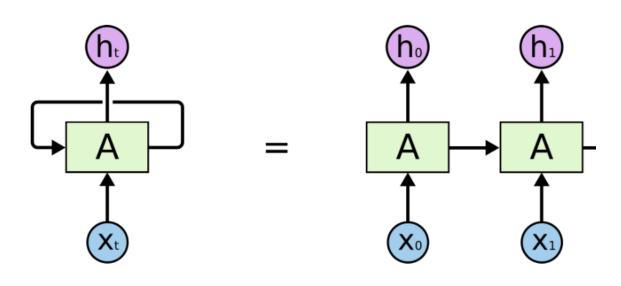






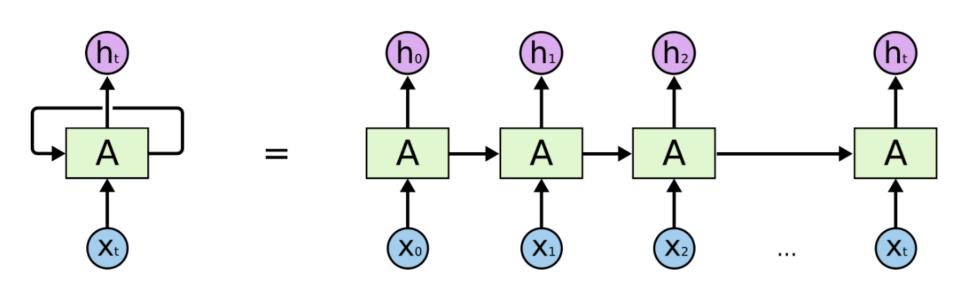






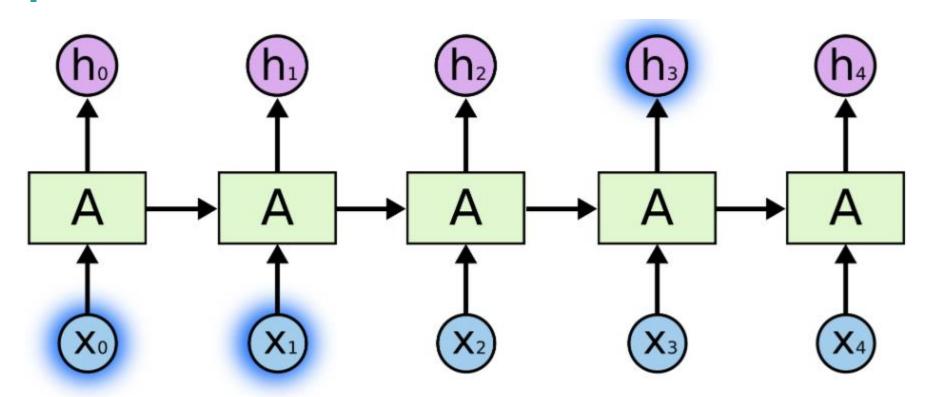








Koncepcja Problem prostej rekurencji - zanikanie/eksplozja







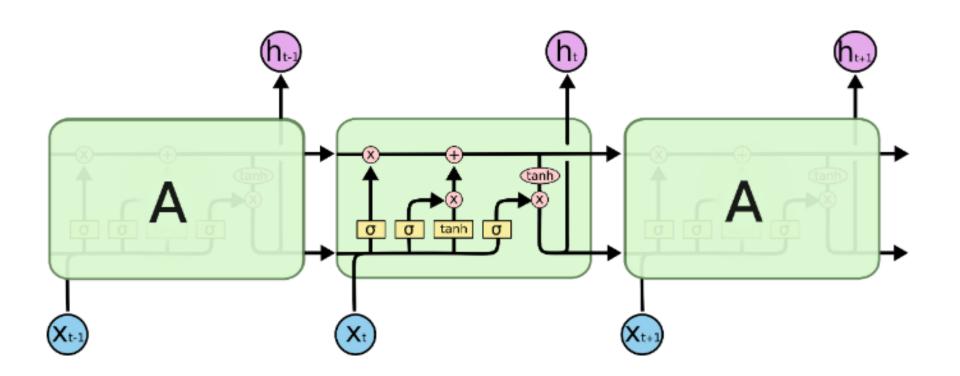
Jak to załatwić?





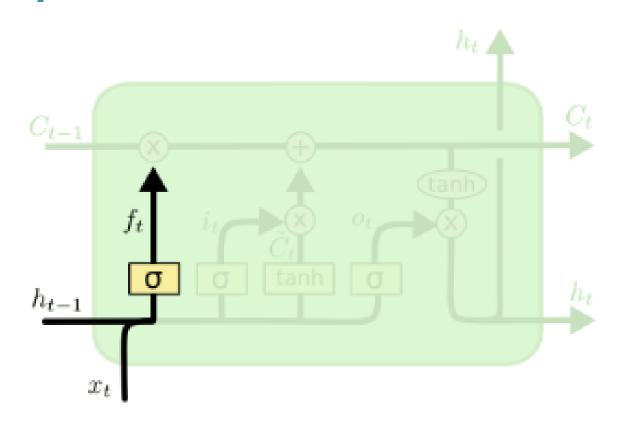
Long Short Term Memory Networks





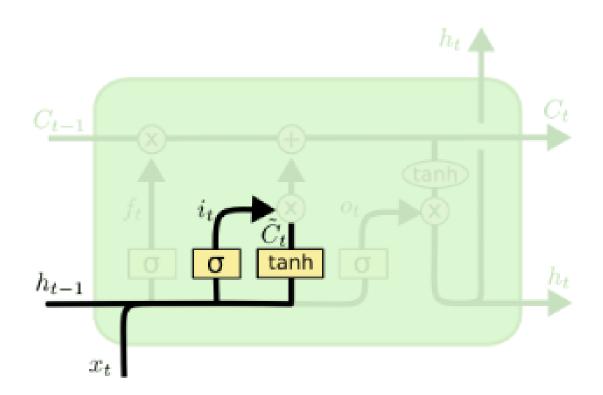






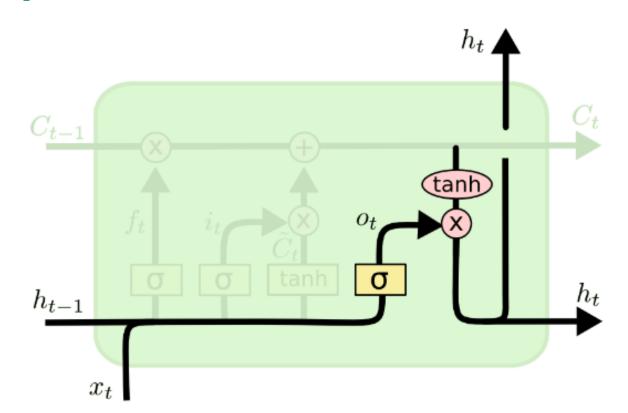


LSTMs Input Gate





LSTMs Output gate

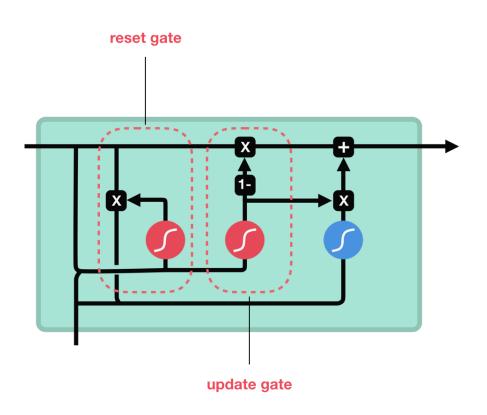






Coś innego niż LSTM?









Zastosowania RNN

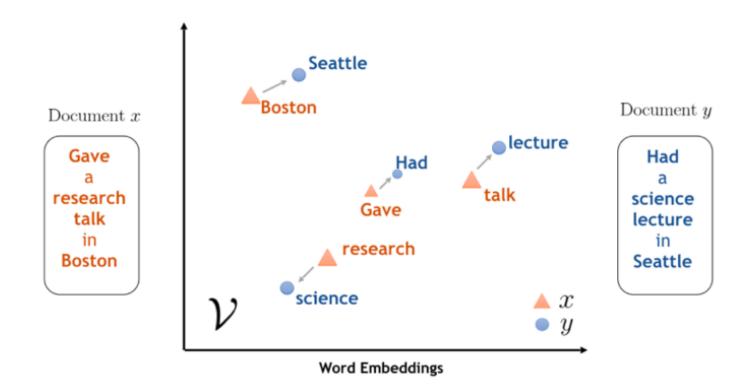
Zastosowania RCNN



- Time series prediction
- Sentiment analysis
- Text Translation
- Music generation

Word embeddings







Źródła

- http://colah.github.io/posts/2015-08-Understanding-LSTMs/
- https://machinelearningmastery.com/time-series-forecasting-long-short-term-memory-network-python/
- https://www.youtube.com/watch?v=QcilcRxJvsM
- https://www.ibm.com/blogs/research/2018/11/word-movers-embedding/
 - https://www.is.umk.pl/~grochu/wiki/lib/exe/fetch.php?media=zajecia:nn_2018_1:nn-wyklad.pdf





Dzieki

You can find me at

@Krzysztof Bork-Ceszlak & ceszlak.krzysztof@gmail.com