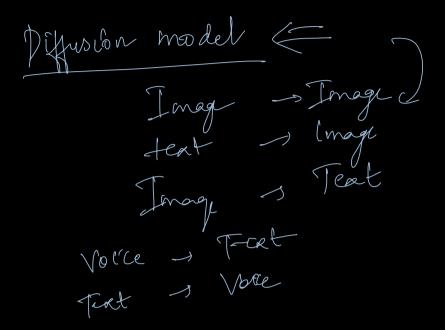
Why Tranformer? 1. All the tokens in garallel 2. Handling long Set of tokens was challenging with other architecture 3. A word can be represented in different Context in dofferent place I went to bank to withrow money

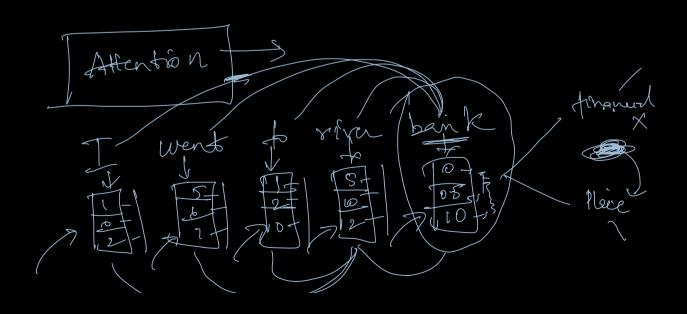
I went to norn bank to get some

fresh and I have interest in biking.
The interest in the loan is increasing The embedding may not be 100%.
Correct represtation we update embedding based on the input passed 4.



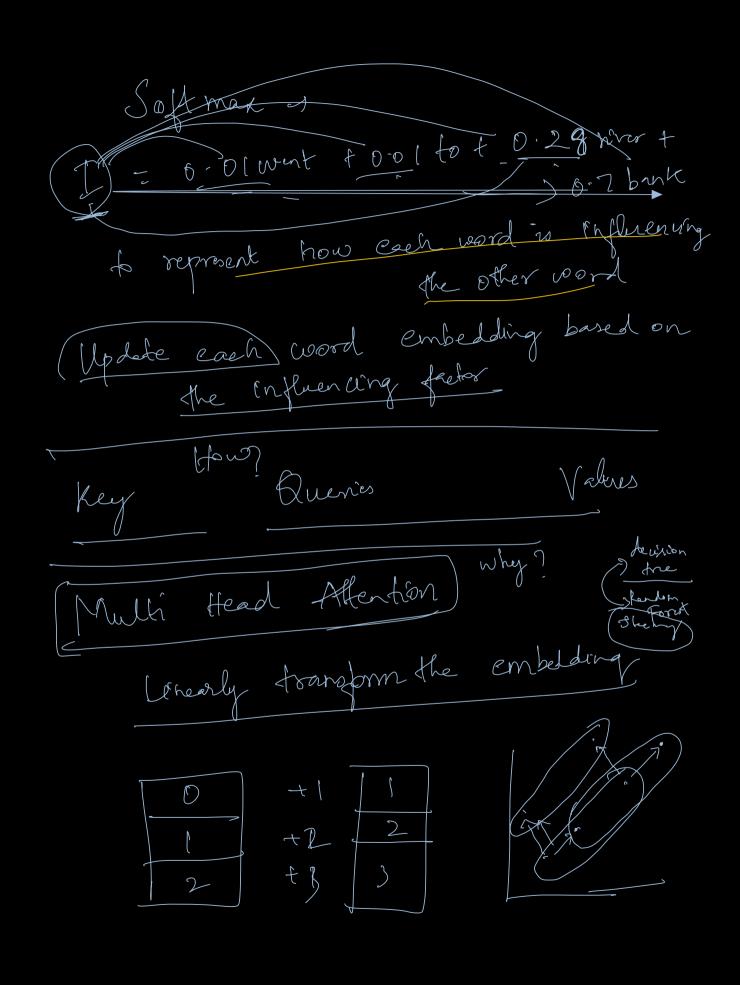
2017 - Affention is all you need (

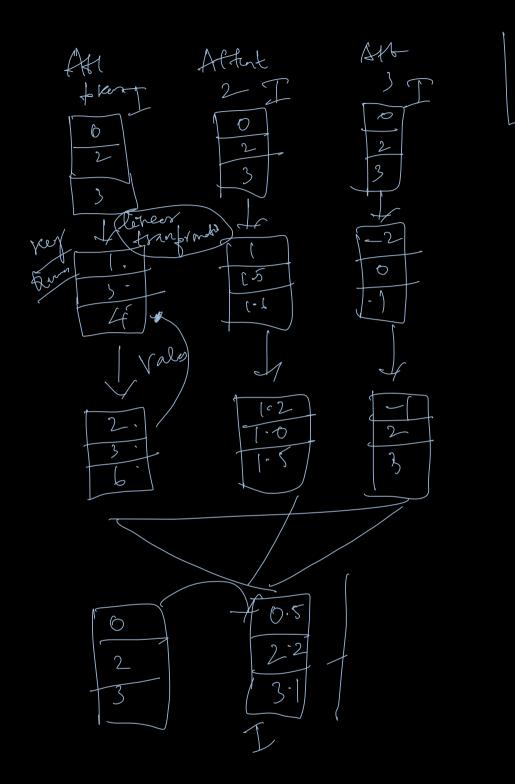
Transformer



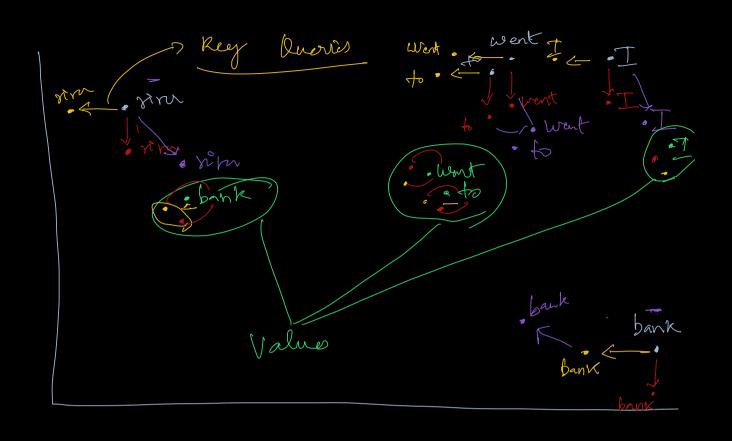
Updating the embeddings based on the Ingut passed by companing the other tokens Somilar &

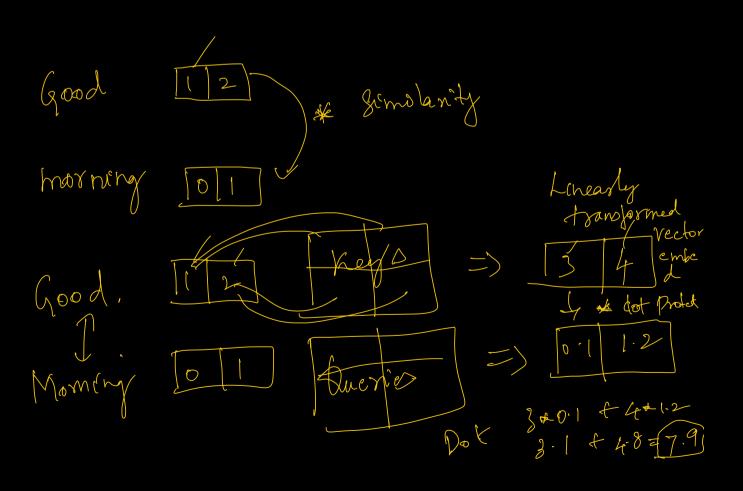
Contre similarity How ? (Scaled) dot product => 0+ 0+ to Dimilanty Slove len (x1) = 3 went 10 0-5 Q., Went n'red brnk 0.5 went + 0.6 to t 10 your + 20 bank = (1)





have Quenes Normalier Inear Transformation softwee Scaled Aut prhut Updating the embedding





Saled DoguK 2 X 2 momin Mormalize the similarity 6'} good with addition of verby beams 0-7 morny

multiply the Values of the part of the Values of the Palues of the Values of the palues of the palue

