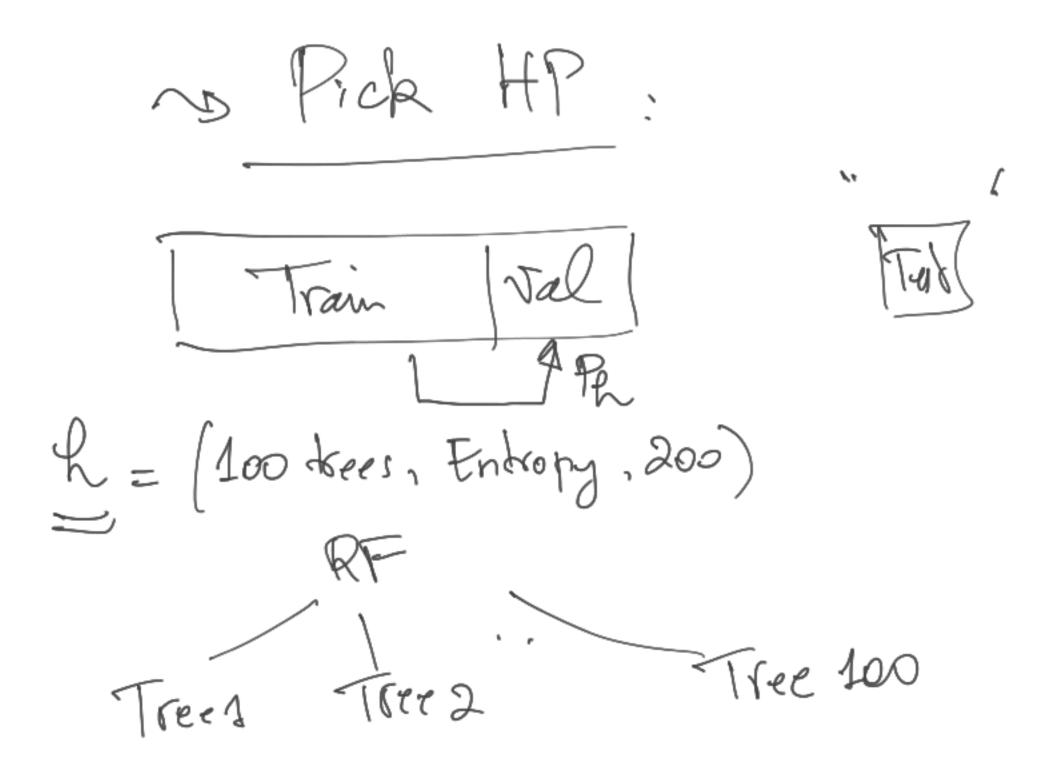
Lecture 1 - Secture 3 - Hulticlass classification
- Degression. -> Preprocessing => Scaling

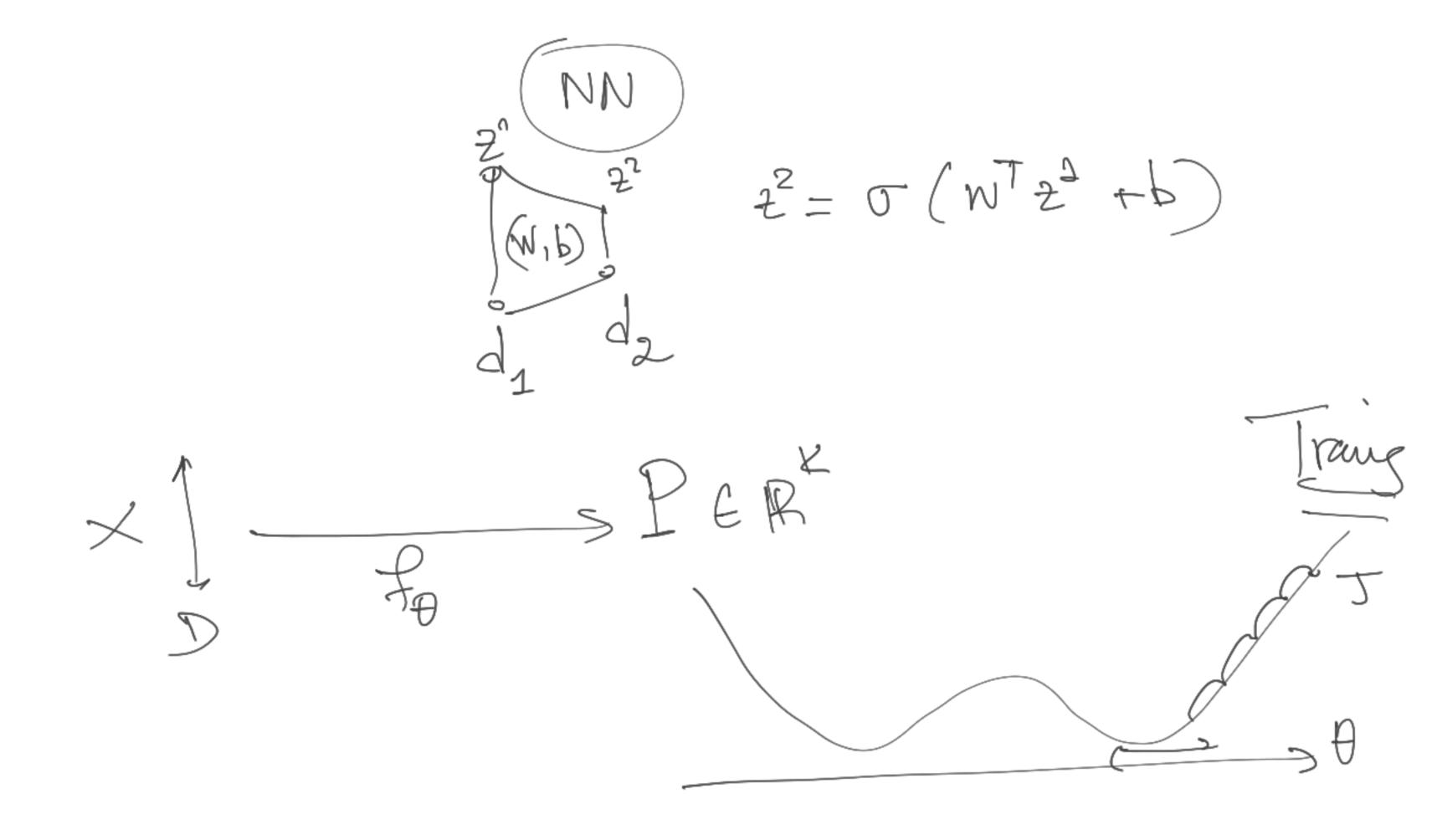
Scaling

Peature engineering.

Tree based Plodels - # neurons / Layer - # Layers - Act fcbs ... - Impurity



Devaluation metrics (21)



Part 2 Introducing Sequentialety Psu; Imdb dahaset 00cn --

Limitation in 1511

words represented as indices (21)

Non Sequential Model. (22)

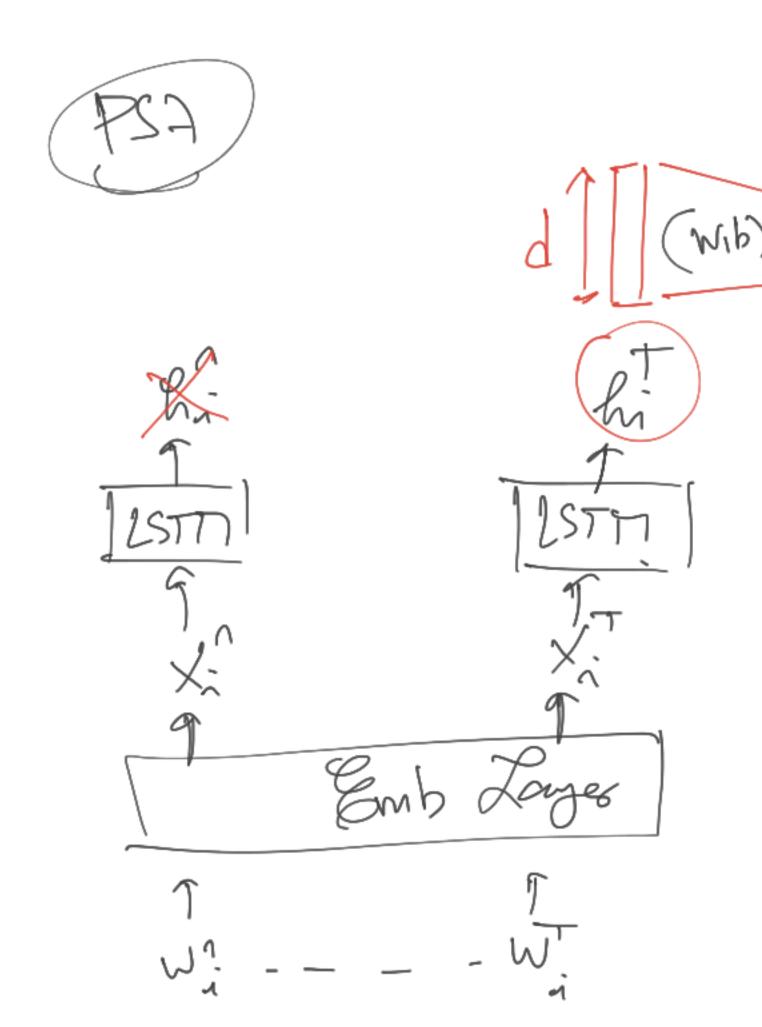
Lecture 5: d'initation 1 Words - > indices - > D-diversional grepresentation

of words  $\mathcal{E} = \begin{bmatrix} -W_1 \\ W_2 \end{bmatrix}$ 

6 love mas Dalas docs 60-01 curence J= Z-(log xij-Winy) Embedding Layer (16)

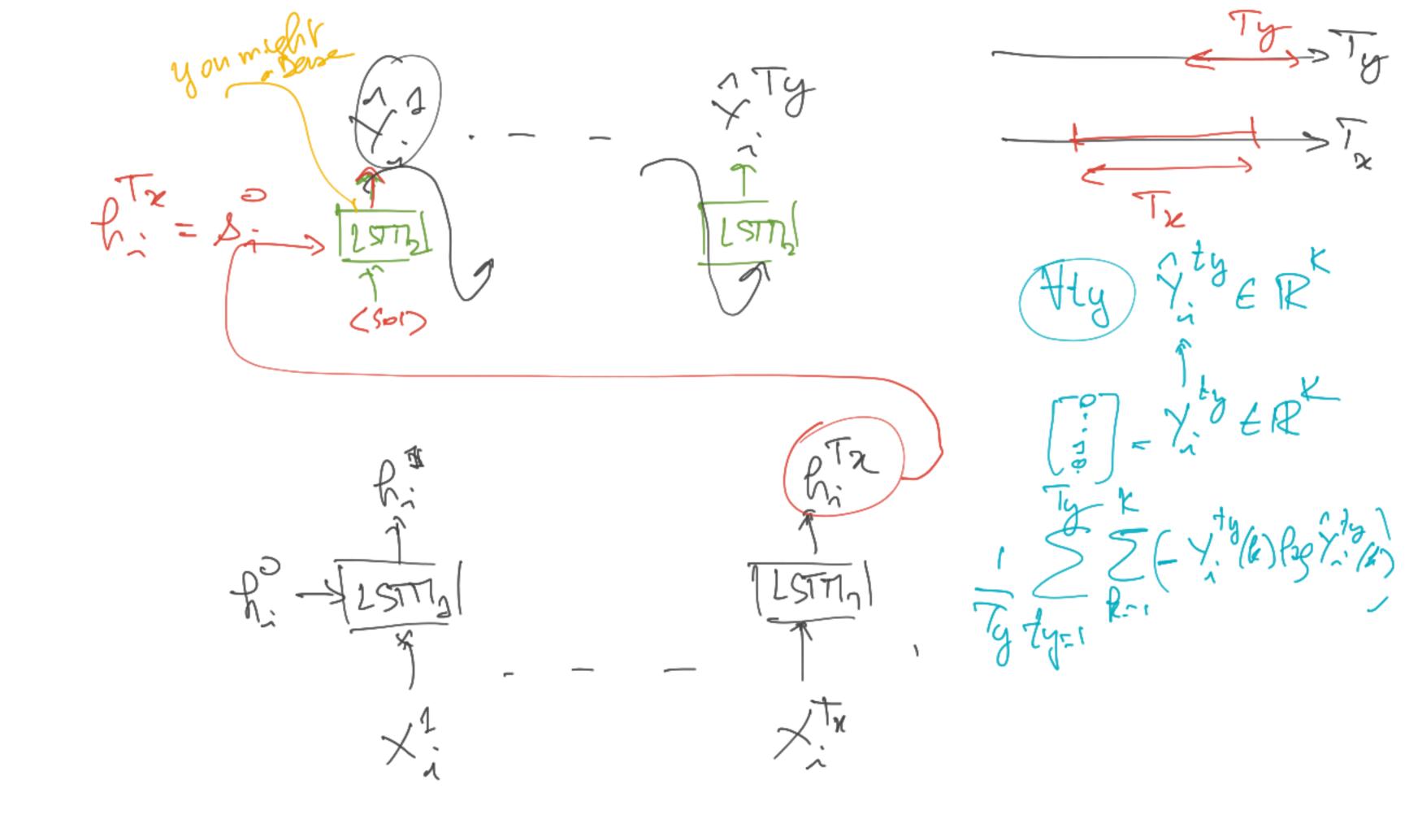
doc (24 27 47 i< 4(06E: VxN LSTM model  $X^{2} \cdot X^{2} \Rightarrow X^{3} \cdot - X^{4}$ 

R LSTTI LSTTI LSTTI LSTTI X

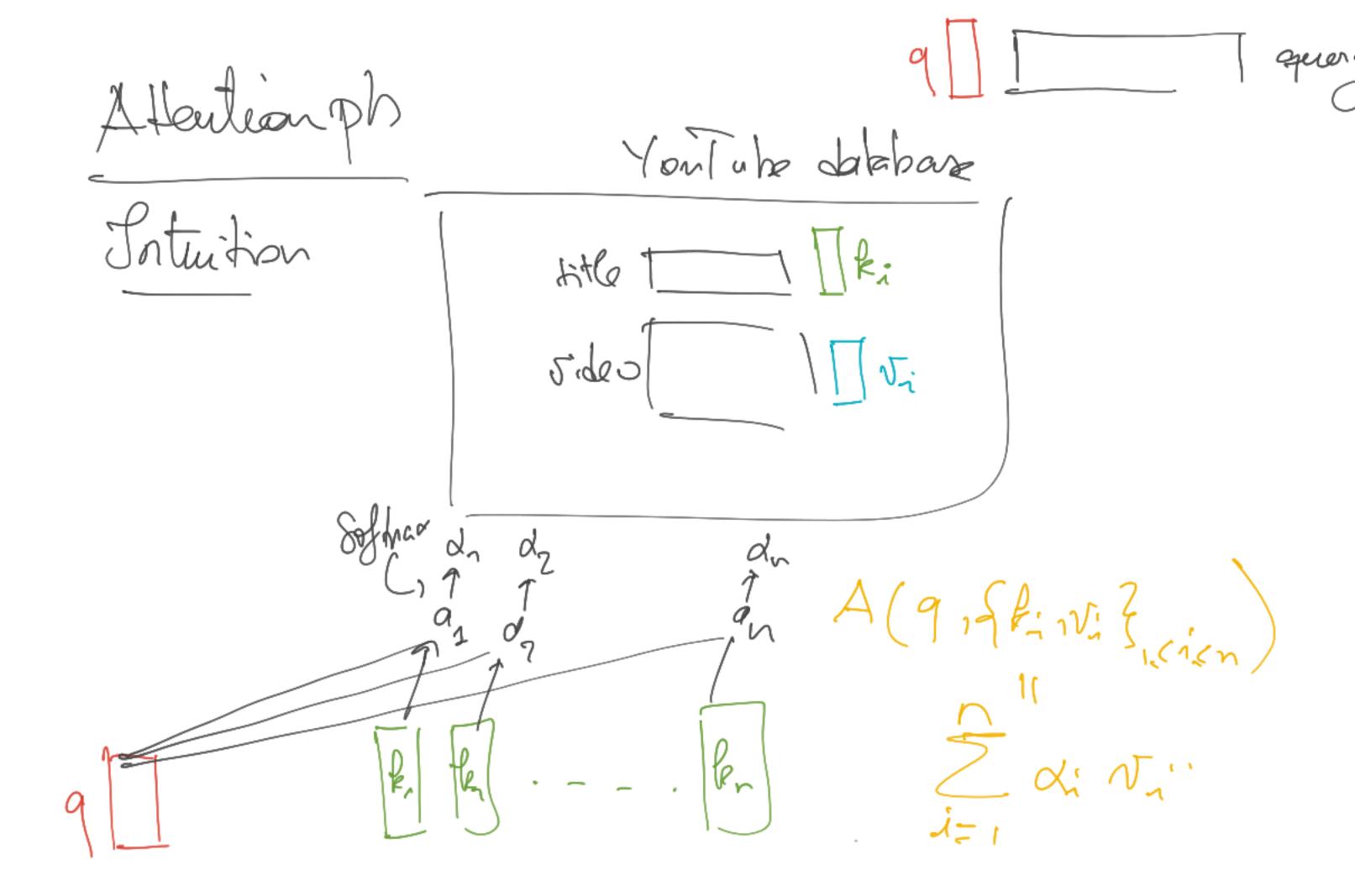


K=5 contragorio1

Many to Ore Tour a été entarté Inter Tom was hit with a prie ) Say.



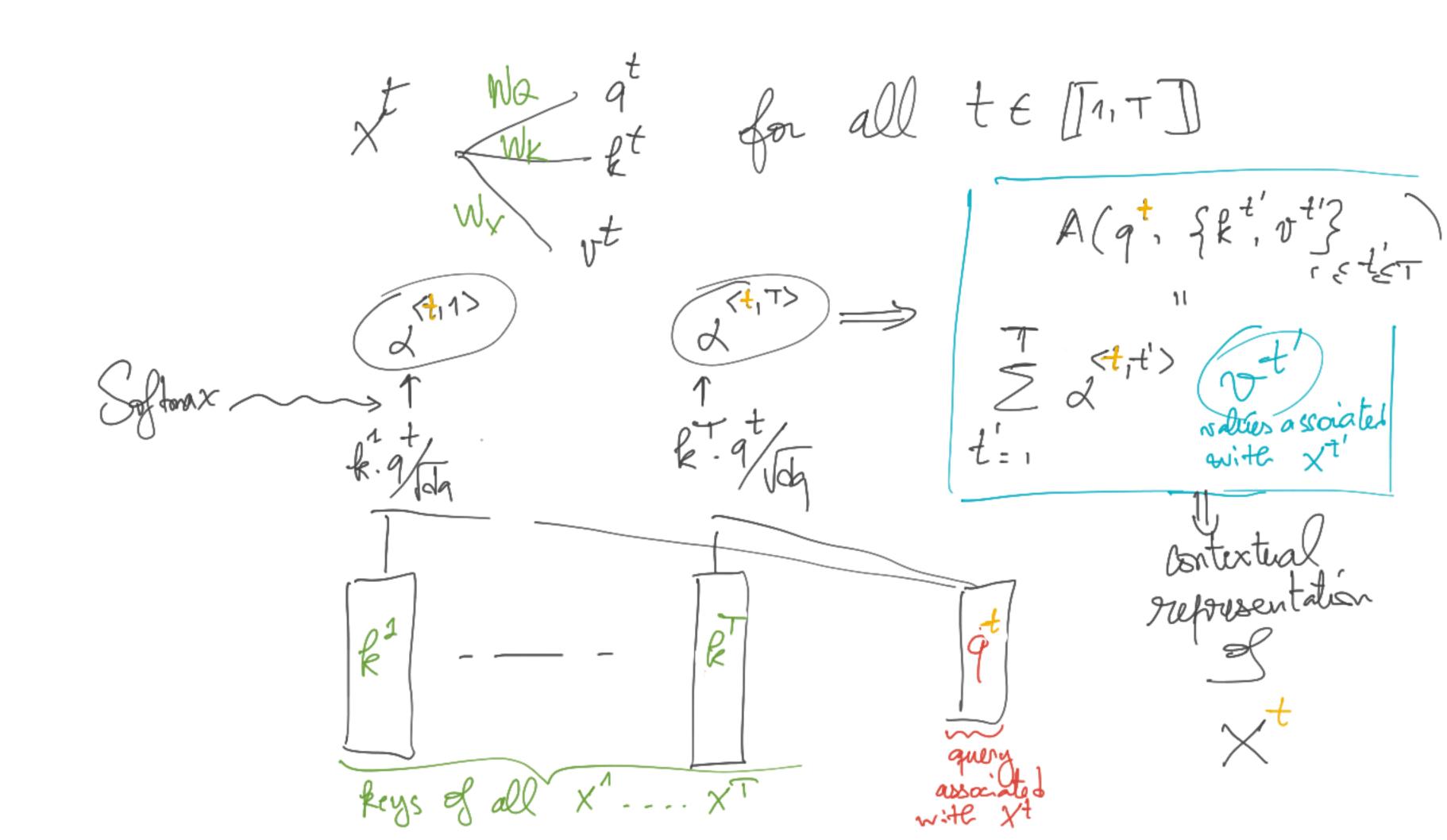
Alignment ph Was Prit with a pine Imput Sequence



1 st application of Attention (Not in exam)
entanté (ty)

objective, put affection on "Put with a fire

2nd Application of Atlantion: Contextual embedding A(9<sup>T</sup>, Skt, vt'3<sub>t'</sub>) 2(9°, Skivt'2)



Attention Layer  $(N,T,d_{\sigma})$ Attention

Optionenal Session en Monday, May 15th -> Coding the Self altertion Layer -> Introduce the Transformer architecture and dange Language Males \_> Correct part of exam 2022.