про внимание

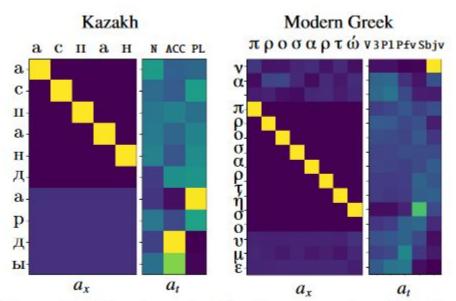


Figure 3: Attention visualization examples. The inflected form is generated from top to bottom.

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lilianweng.github.io/lil-log/2018/06/24/attention-attention.html

Name	Alignment score function	Citation
Content-base attention	$ ext{score}(m{s}_t,m{h}_i) = ext{cosine}[m{s}_t,m{h}_i]$	Graves2014
Additive(*)	$\mathrm{score}(oldsymbol{s}_t, oldsymbol{h}_i) = \mathbf{v}_a^ op anh(\mathbf{W}_a[oldsymbol{s}_t; oldsymbol{h}_i])$	Bahdanau2015
Location-Base	$lpha_{t,i} = ext{softmax}(\mathbf{W}_a s_t)$ Note: This simplifies the softmax alignment to only depend on the target position.	Luong2015
General	$ ext{score}(m{s}_t, m{h}_i) = m{s}_t^ op \mathbf{W}_a m{h}_i$ where $m{W}_a$ is a trainable weight matrix in the attention layer.	Luong2015
Dot-Product	$\mathrm{score}(oldsymbol{s}_t, oldsymbol{h}_i) = oldsymbol{s}_t^ op oldsymbol{h}_i$	Luong2015
Scaled Dot- Product(^)	$\operatorname{score}(s_t, h_i) = \frac{s_i^T h_i}{\sqrt{n}}$ Note: very similar to the dot-product attention except for a scaling factor; where n is the dimension of the source hidden state.	Vaswani2017

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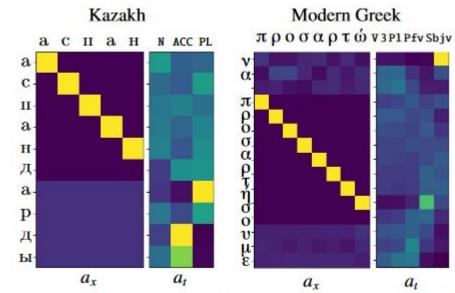
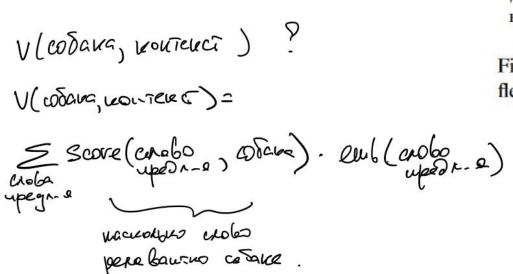


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Пример гифок про то, как вычислять атеншн скор

https://towardsdatascience.com/illustrated-self-attention-2d627e33b20a

Две задачки

Задачка 1: https://gist.github.com/oserikov/13c706f7c8265b8d52d2f59e9a4d914d

Задачка 2: https://gist.github.com/oserikov/1b582a473aafdfe382487f0165f572ee