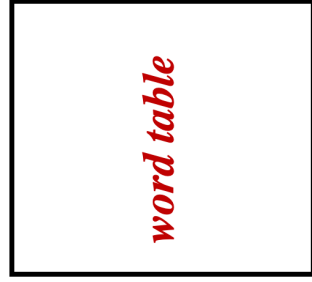


It's no wonder that Wolf has *become* a well-paid political consultant.

**forward**      It's no wonder that Wolf has      **ELMo**      a well-paid political consultant.      **backward**

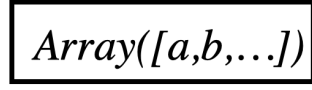
**word vector**

Array([a,b,c,d,...])



$50_w \times 512$

$\odot$

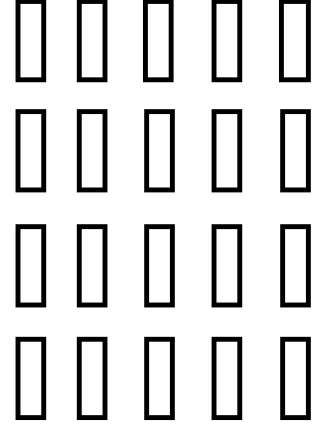


$512 \times 1$

$=$



$512 \times 1$



**Sampling**

Array([e,f,g,h,...])

Tf-idf  
↑  
cluster



**7 clusters**