

 $w_1$ 

 $w_1$ 

2.009

GF	R	C 2 C 1 Top 100 words		GF/TF
$w_1$	$w_2$	•••	$w_{100}$	
<b>w</b> ;	2	v	<i>w</i> <sub>100</sub>	
$w_2$	•••	<i>w</i> <sub>10</sub>	<u>o</u>	
$w_2$	•••	$w_{100}$		
$\begin{bmatrix} 0 \\ \vdots \\ 0 \end{bmatrix}$		[3.075] : : 8.624]		Tra
[0.014] : 7.693]		$\begin{bmatrix} 0 \\ \vdots \\ 0 \end{bmatrix}$		

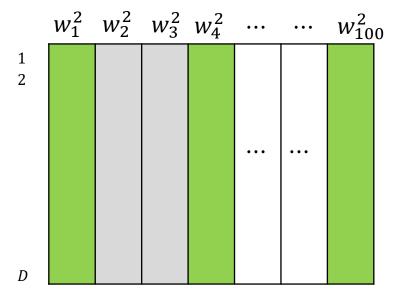
## GF/TR VOC embeddings

$C_1$	$w_{1}^{1}$	$w_{2}^{1}$	•••	$w_{100}^1$
$C_2$	$w_{1}^{2}$	$w_{2}^{2}$	•••	$w_{100}^2$
$C_3$	$w_{1}^{3}$	$w_{2}^{3}$	•••	$w_{100}^3$

:

 $C_N \qquad w_1^N \qquad w_2^N \qquad \cdots \qquad w_{100}^N$ 

It may be the case that  $w_i^x = w_j^y$ 



Train set

$$d_j^2 =$$

## GF/TR VOC embeddings

$C_1$	$w_{1}^{1}$	$w_{2}^{1}$	•••	$w_{100}^1$
$C_2$	$w_{1}^{2}$	$w_{2}^{2}$	•••	$w_{100}^2$
$C_3$	$w_1^3$	$w_{2}^{3}$	•••	$w_{100}^3$

:

$$C_N \qquad w_1^N \qquad w_2^N \qquad \cdots \qquad w_{100}^N$$

$$V_x = \{w_v^x\}, v = 1, 2, ..., 100$$

Test set

$$d_{j} = \left(w_{1}^{j}, w_{2}^{j}, \dots, w_{k}^{j}\right)$$

$$d_{j}^{V_{x}} = \left\{w \in d_{j} \mid w \in V_{1} \cup V_{2} \dots \cup V_{N}\right\}$$

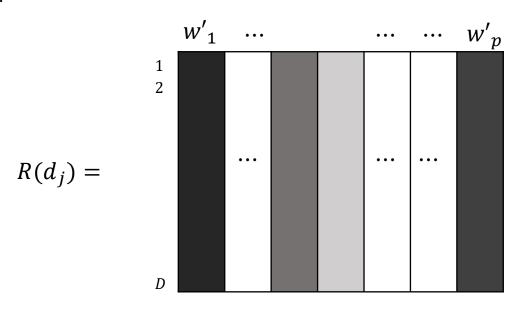
$$C_{i} = \left\{V_{x} \mid w_{i}^{x} \in d_{j}^{V_{x}}\right\}; i = 1, 2, \dots, p = \left|d_{j}^{V_{x}}\right|.$$

$$\alpha_{i} = \frac{\exp(-|\mathcal{C}_{i}|)}{\sum_{i=1}^{p} \exp(-|\mathcal{C}_{i}|)}$$

$$w'_i = \alpha_i w_i^x$$
 ,  $i = 1, 2, ..., p$  ;  $w_i^x \in d_j^{V_x}$ 

$$R(d_j) = (w'_1, w'_2, w'_3, ..., w'_p)$$

Ordenados por valor decreciente de lpha



Dos enfoques posibles:

- 1. Rellenar/truncar  $R(d_i)$
- 2. PCA  $(R(d_j))$

