

NLP and Word Embeddings

Word representation

Word representation

V = [a, aaron, ..., zulu, <UNK>]

|V| = 10,000

1-hot representation

				1/	
Man	Woman	King	Queen	Apple	Orange
(5391)	(9853)	(4914)	(7157)		(6257)
O_{579}	1 9853	l'	7	1	V

I want a glass of orange _____.

I want a glass of apple______.

Featurized representation: word embedding

	Man (5391)	Woman (9853)	King (4914)	Queen (7157)	Apple (456)	Orange (6257)	
Gerder			-0.95	0.97	0.00	0.01	
Joo Royal	0.0	0.62	0.93	0.95	-0.01	0.00	
Age	0.03	0.02	0.7	0.69	0.03	-0.02	
Food	6.09	5.01	0.02	0.01	0.95	0.97	
size Cost V alix- verb	(esza1	E 9853	I want a glass of orange <u>juice</u> . I want a glass of apple <u>juice</u> . Andrew Na				

Visualizing word embeddings

