

NLP and Word Embeddings

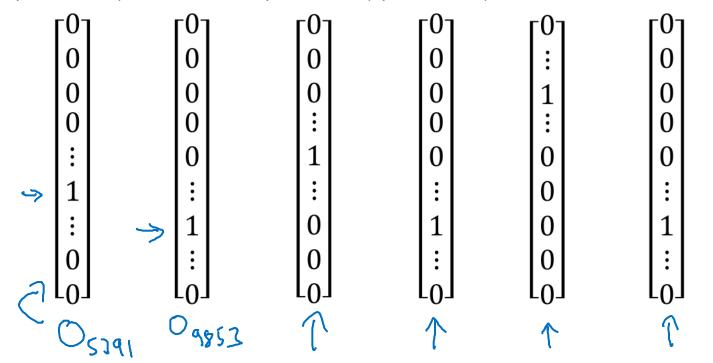
Word representation

Word representation

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

1-hot representation

Man Woman King Queen Apple Orange (5391) (9853) (4914) (7157) (456) (6257)



N= 10,000

I want a glass of orangenice.

I want a glass of apple?

Featurized representation: word

embe	dding Man (5391)	Woman (9853)	King (4914)	Queen (7157)	Apple (456)	Orange (6257)
1 Gerder			-0.95	0.97	0.00	0.01
300 Royal	0.0	0.62	0.93	0.95	-0.01	0.00
Age	0.03	0.62	0.7	0.69	0.03	-0.02
Food	6.09	5.01	0.02	0.01	0.95	0.97
Size Cost V alive verb	e 5391	e ₉₈₅₃		l want I want	a glass of a glass of	orangei <u>e</u> . appleic. Andrew Ng

Visualizing word embeddings

