

# Big Picture(s)



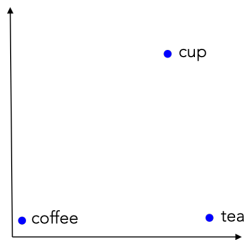
Which one of these Rembrandts do you prefer?

# From Context to Embeddings

*"You shall know a word by the company it keeps."*

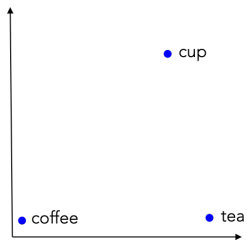
(Firth, 1957)

# From Context to Embeddings



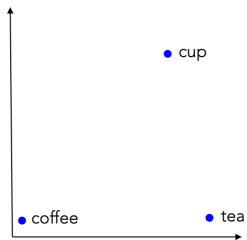
I had a cup of coffee this morning

# From Context to Embeddings



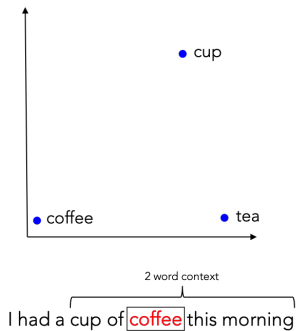
I had a cup of coffee this morning

# From Context to Embeddings

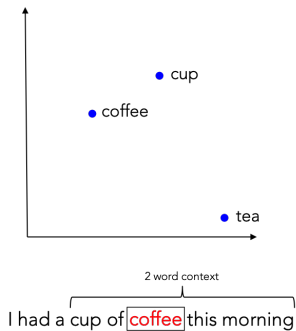


I had a cup of coffee this morning

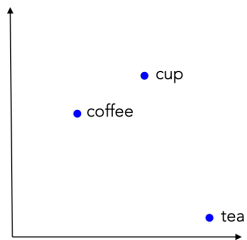
# From Context to Embeddings



# From Context to Embeddings



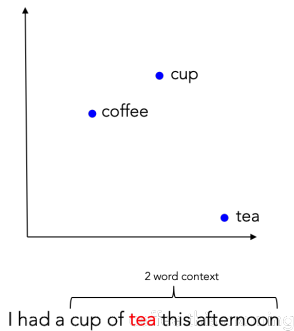
# From Context to Embeddings



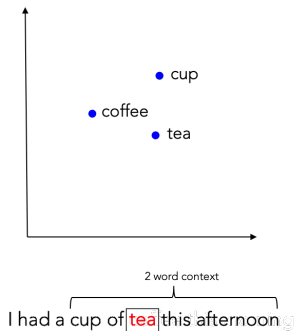
I had a cup of tea this afternoon



# From Context to Embeddings



# From Context to Embeddings



# RShiny App: Definitions

## Context Words

A famous maxim in the study of linguistics states that:

***You shall know a word by the company it keeps.*** (Firth, 1957)

This task is designed to help us understand the nature of the "company" that words "keep": that is, their CONTEXT.

Specifically, for a CUE WORD, its CONTEXT WORDS include words that:

- Tend to occur in the vicinity of the CUE WORD. That is, they are words that appear close to the CUE WORD in written or spoken language.

AND/OR

- Tend to occur in similar situations to the CUE WORD in spoken and written language. That is, they are words that regularly appear with other words that are closely related to the CUE WORD.

For example, CONTEXT WORDS for the cue word COFFEE include:

1. *cup* (tends to occur in the vicinity of COFFEE).
2. *tea* (tends to occur in similar situations to COFFEE, for example when discussing drinks).

Click "Next" to continue

Next

# RShiny App-1: Context Word Generation

## Task 3 of 10

welfare

Click here to enter text

Press enter to save entry.

- reform - help - poor

Number of unique words entered: 3

Number of words required to satisfy minimum: 7

Time remaining: 156 secs

Please input at least 10 context words before clicking "Next".

Next

## RShiny App-2: Context Word Evaluation

WELFARE

dependency



reform



Select the best candidate context word for the cue word provided by clicking on the respective checkbox below the word.

Click "Next" to continue

Next

## RShiny App-2: Context Word Evaluation

**Machine**

dependency



WELFARE

**Human**

reform



Select the best candidate context word for the cue word provided by clicking on the respective checkbox below the word.

Click "Next" to continue

Next

## RShiny App-2: Context Word Evaluation

**Machine**

dependency



WELFARE

**Human**

reform



Select the best candidate context word for the cue word provided by clicking on the respective checkbox below the word.

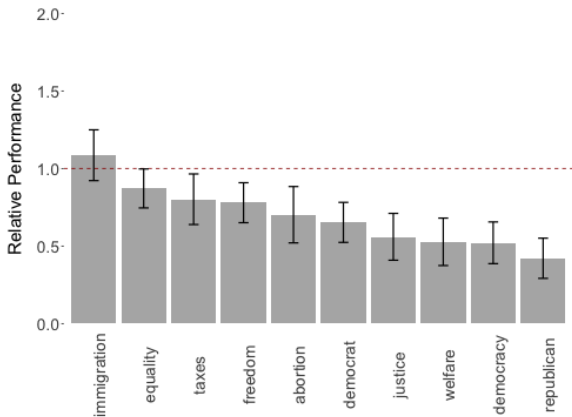
Click "Next" to continue

Next

Machine: 1 - Human: 0

Candidate: Local 6-300

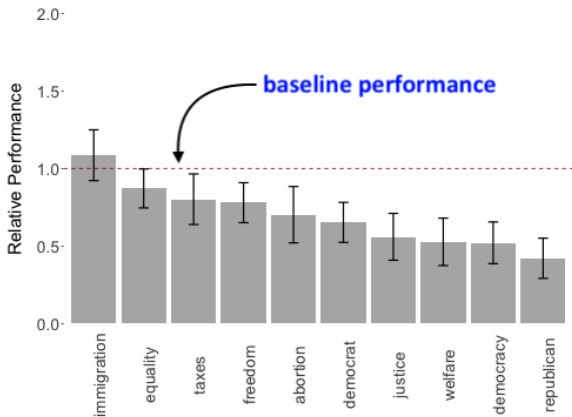
Baseline: Human





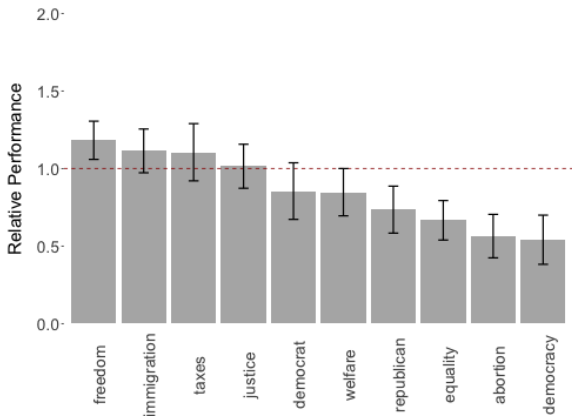
Candidate: Local 6-300

Baseline: Human



Candidate: GloVe pretrained

Baseline: Human



Candidate: Local 48-300

Baseline: Local 6-300

