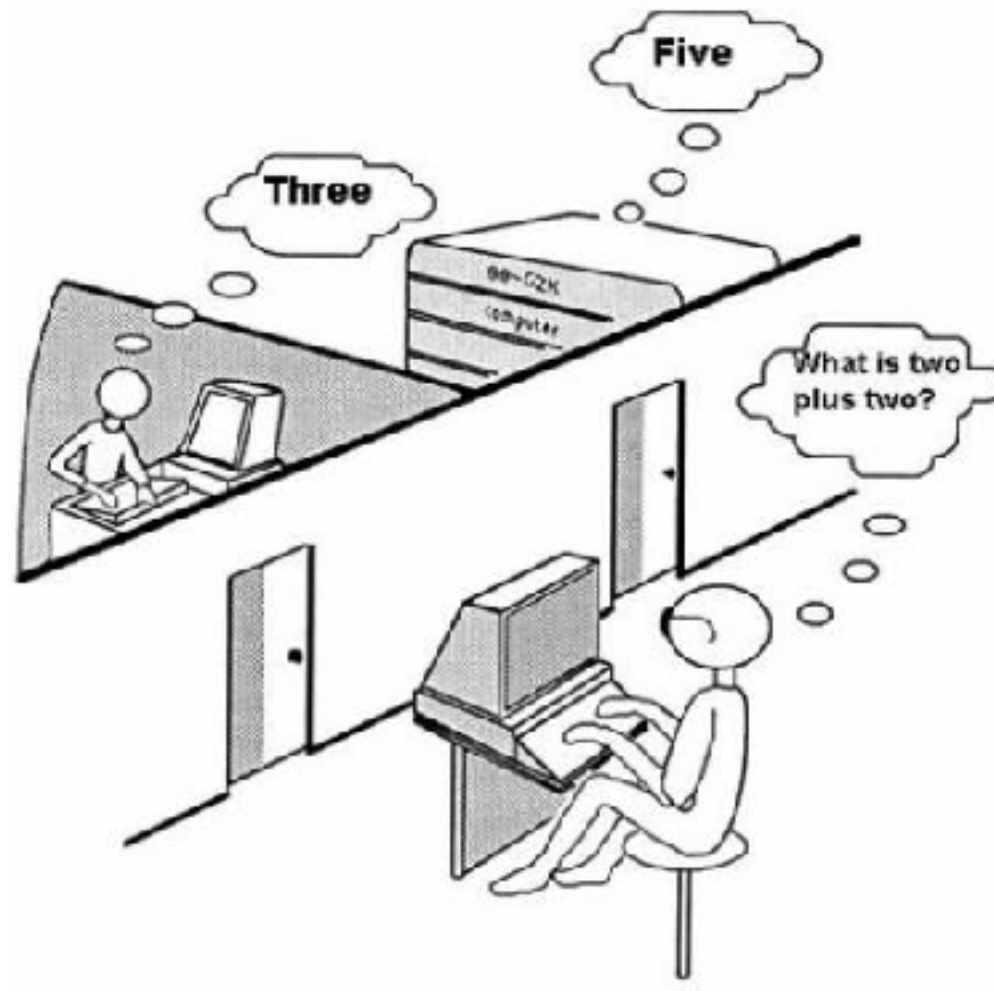


Procesamiento lenguaje natural

Prueba de Turing



Eliza - MIT



```
random_responses = ["That is quite interesting, please tell me more.",  
                    "I see. Do go on.",  
                    "Why do you say that?",  
                    "Funny weather we've been having, isn't it?",  
                    "Let's change the subject.",  
                    "Did you catch the game last night?"]
```

Hello, I am Marvin, the simple robot.

You can end this conversation at any time by typing 'bye'

After typing each answer, press 'enter'

How are you today?

> I am good thanks

That is quite interesting, please tell me more.

> today I went for a walk

Did you catch the game last night?

> I did, but my team lost

Funny weather we've been having, isn't it?

> yes but I hope next week is better

Let's change the subject.

> ok, lets talk about music

Why do you say that?

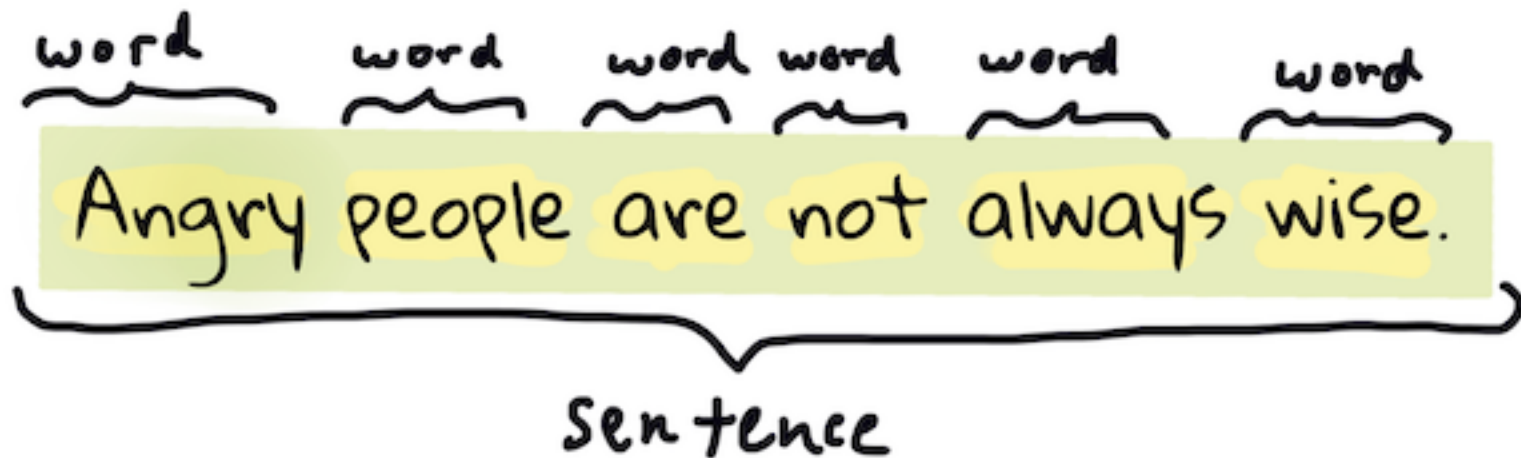
> because I like music!

Why do you say that?

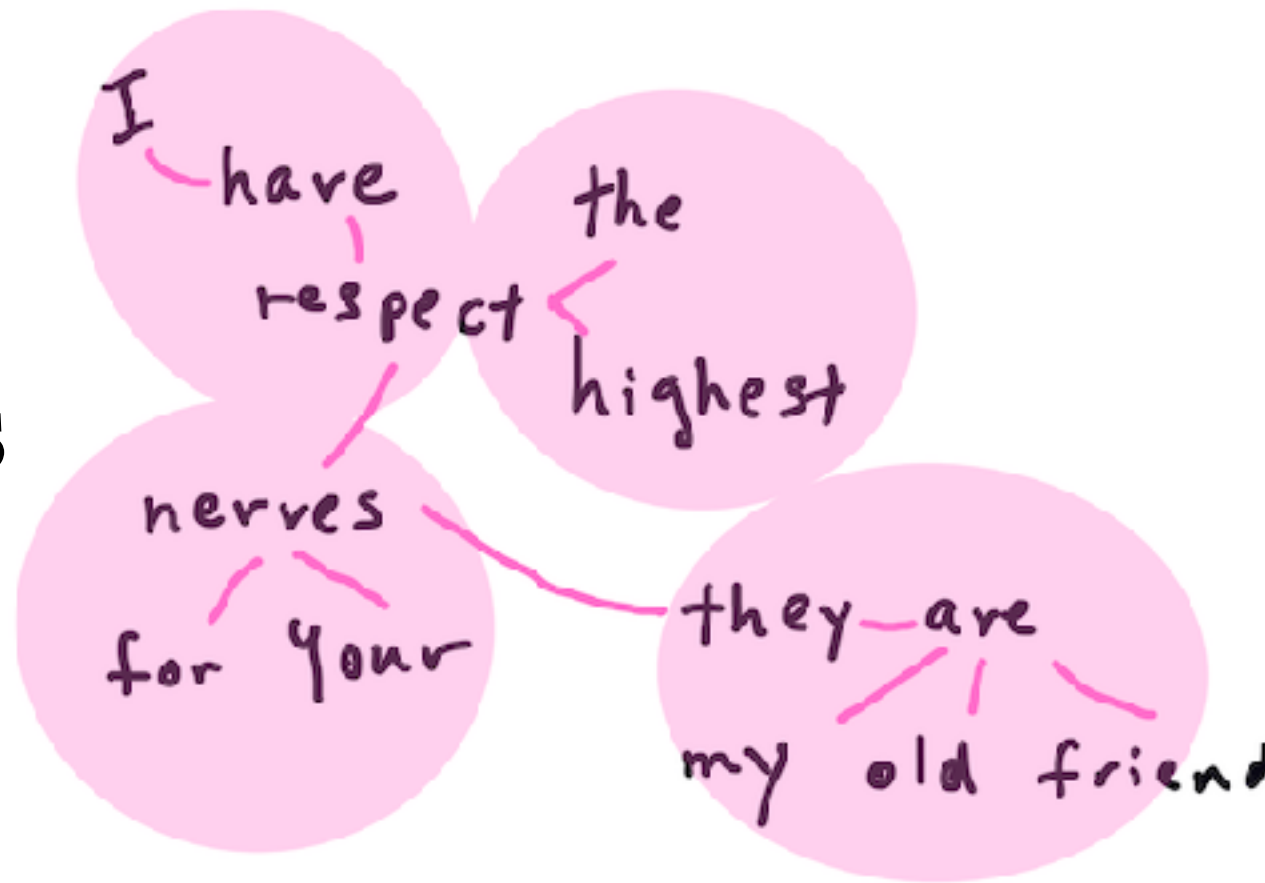
> bye

It was nice talking to you, goodbye!

Tokenización



Embeddings



Parsing

Elizabeth was too much embarrassed to say a word.

proper noun verb mod. adjective v. infinitive mod. noun

Frecuencia de las palabras

What the moral? Who rides may read.
When the night is thick and the tracks are blind
A friend at a pinch is a friend, indeed,
But a fool to wait for the laggard behind.
Down to Gehenna or up to the Throne,
He travels the fastest who travels alone.

friend frecuencia 2
the frecuencia 6
travels frecuencia 2

N-grams

1. the quick
2. quick red
3. red fox
4. fox jumped
5. jumped over
6. over the
7. the lazy
8. lazy brown
9. brown dog

1. **the quick red** fox jumped over the lazy brown dog
2. the **quick red fox** jumped over the lazy brown dog
3. the quick **red fox jumped** over the lazy brown dog
4. the quick red **fox jumped over** the lazy brown dog
5. the quick red fox **jumped over the** lazy brown dog
6. the quick red fox jumped **over the lazy** brown dog
7. the quick red fox jumped over **the lazy brown** dog
8. the quick red fox jumped over the **lazy brown dog**

I declare after all there is no
enjoyment like reading! How much
sooner one tires of any thing than
of a book!

Frases de sustantivos

the quick red fox jumped over the lazy brown dog

quick red fox

lazy brown dog

Análisis de sentimientos

- Positivo o negativo
- Lista de frases
- Categorización

Inflexión - plural o singular

Lemma

flew, flies, flying have lema del verbo *fly*

WordNet

