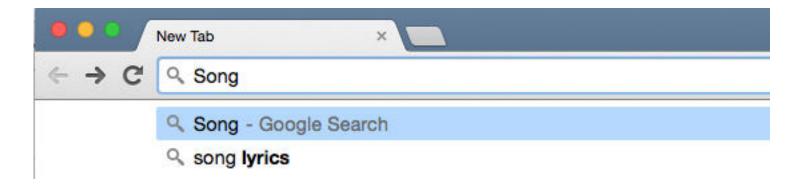
Markov Text Generation

Background

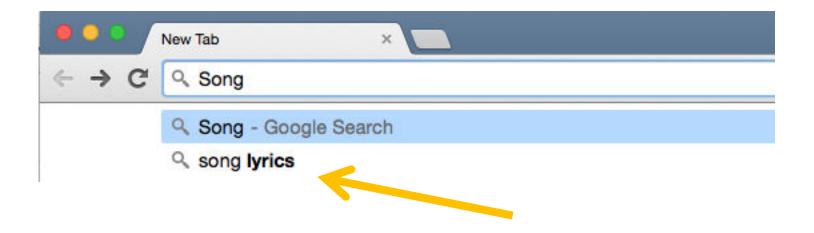
By the end of this video you will be able to...

- Explain how Markov processes can be used to generate text
- Distinguish between training on text and generating text

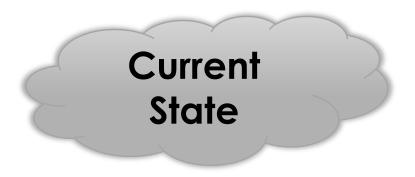
Predicting the future



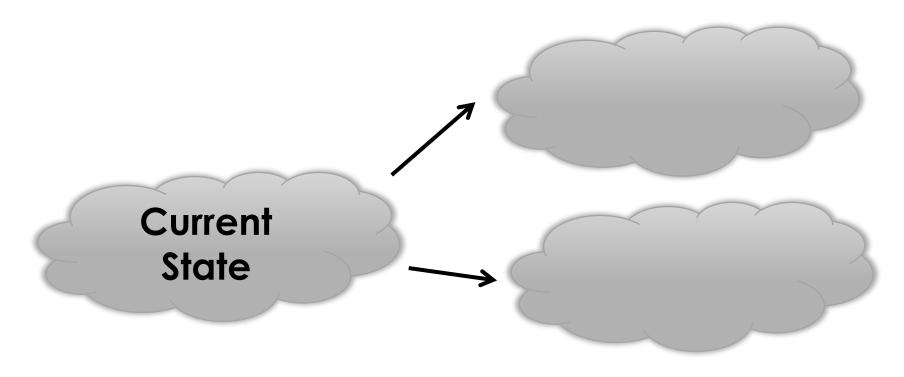
Predicting the future



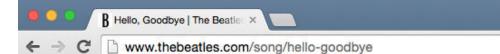
Predicting the future: Markov processes



Predicting the future: Markov processes



State?



BEATLES

EXPLORE

ALBUMS

SONGS

NEWS STORE

LOGIN/

Hello, Goodbye

SONG

You say yes, I say no,

You say stop, and I say go, go, go,

Oh no.

You say goodbye and I say hello, hello, hello, I don't know why you say goodbye, I say hello, hello, hello,

I don't know why you say goodbye, I say hello.

I say high, you say low,

You say why, and I say I don't know.

Oh no.

You say goodbye and I say hello, hello, hello. I don't know why you say goodbye, I say hello, hello, hello,

I don't know why you say goodbye, I say hello.

Why, why, why, why, why,

Do you say goodbye.

Oh no.

You say goodbye and I say hello, hello, hello.

I don't know why you say goodbye, I say hello,

hello, hello,

I don't know why you say goodbye, I say hello.

You say yes, I say no,

You say stop and I say go, go, go.

WIKIPEDIA

The Free Encyclopedia
"Hello, Goodbye"



Cover artwork for the single, as used in the US

Single by The Beatles

B-side "I Am the Walrus" Released November 24, 1967

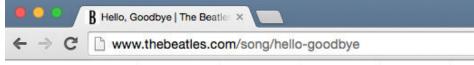
Format 7"

Recorded 2 October - 2 November 1967

EMI Studios, London

Genre Pop rock
Length 3:27
Label Parlophone
Writer(s) Lennon-McCartney
Producer George Martin
Certification Gold (RIAA)

You say hello. I don't know why you say hello, hello. I say goodbye. Oh no. You say no, You



BEATLES

EXPLORE

ALBUMS

SONGS

NEWS

STORE

LOGIN/

Hello, Goodbye

SONG

You say yes, I say no,

You say stop, and I say go, go, go,

Ohno

You say coodbye and I say hello, hello, hello, I don't know who you say coodbye, I say hello, hello, hello,

I don't know who you say coodbye, I say hello.

I say high, you say bw,

You say v hy, and I say I don't know.

On ...

You say coodbye and I say hello, hello, hello.

I don't know who you say coodbye, I say hello, hello, hello,

I don't know whe you say goodbye, I say hello.

Why, why, why, why, why,

Dr you say goodbye.

Oh no

You say coodbye and I say hello, hello, hello.

I don't know who you say goodbye, I say hello, hello, hello.

I don't know why you say goodbye, I say hello.

You say yes, I say no,

You say top and I say go, go, go.

WIKIPEDIA

The Free Encyclopedia
"Hello, Goodbye"



Cover artwork for the single, as used in the US

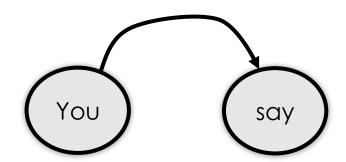
	Single by The Beatles
3-side	"I Am the Walrus"
Released	November 24, 1967

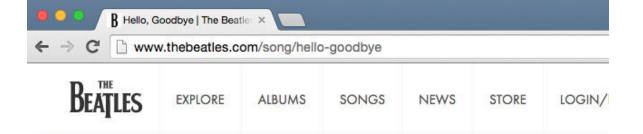
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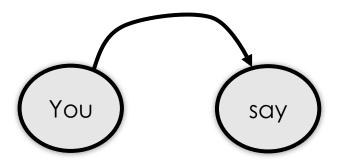


Hello, Goodbye

SONG

You say yes, I say no, You say stop, and I say go, go, go,





You say hello. I don't know why you say hello, hello. I say goodbye. Oh no. You say no, You

I say high, you say low,

You say why, and I say I don't know.

You say goodbye and I say hello, hello, hello.

I don't know why you say goodbye, I say hello, hello, hello,

I don't know why you say goodbye, I say hello.

Why, why, why, why, why, why,

Do you say goodbye.

Oh no.

You say goodbye and I say hello, hello, hello.

I don't know why you say goodbye, I say hello,

hello, hello,

I don't know why you say goodbye, I say hello.

You say yes, I say no,

You say stop and I say go, go, go.

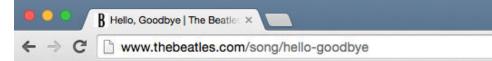


Cover artwork for the single, as used in the US

	Single by The Beatles
-side	"I Am the Walrus"
eleased	November 24, 1967
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ecorded	2 October - 2 November 1967
	EMI Studios, London
enre	Pop rock
ength	3:27
abel	Parlophone

Writer(s) Lennon-McCartney George Martin Producer

Certification Gold (RIAA)



BEATLES

EXPLORE

ALBUMS

SONGS **NEWS** STORE

LOGIN/

Hello, Goodbye

SONG

You say yes, I say no,

You say stop, and I say go, go, go,

Oh no.

You say goodbye and I say hello, hello, hello, I don't know why you say goodbye, I say hello, hello, hello,

I don't know why you say goodbye, I say hello.

I say high, you say low,

You say why, and I say I don't know.

Oh no.

You say goodbye and I say hello, hello, hello.

I don't know why you say goodbye, I say nello, hello, hello,

I don't know why you say goodbye, I say hello.

Why, why, why, why, why, why,

Do you say goodbye.

Oh no.

You say goodbye and I say hello, hello, hello.

I don't know why you say goodbye, I say hello,

hello, hello,

I don't know why you say goodbye, I say hello.

You say yes, I say no,

You say stop and I say go, go, go.

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The Free Encyclopedia "Hello, Goodbye'



Cover artwork for the single, as used in the US

Single by The Beatles

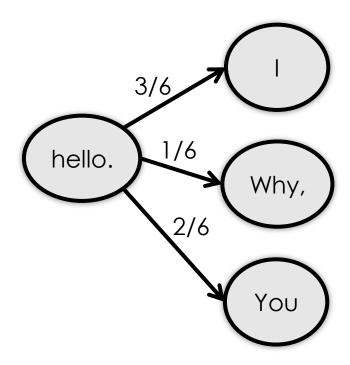
B-side "I Am the Walrus" Released November 24, 1967

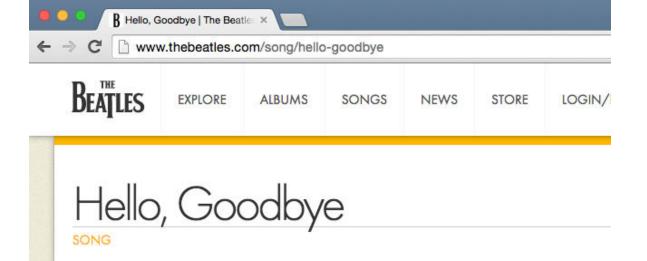
Format 7"

Recorded 2 October - 2 November 1967

EMI Studios, London

Genre Pop rock Length 3:27 Label Parlophone Writer(s) Lennon-McCartney Producer George Martin Certification Gold (RIAA)





You say yes, I say no, You say stop, and I say go, go, go, Oh no.

WIKIPEDIA The Free Encyclopedia

"Hello, Goodbye"

3/6

hello.

1/6

2/6

Why,

You

You say hello. I don't know why you say hello, hello. I say goodbye. Oh no. You say no, You

You say why, and I say I don't know.

Oh no.

You say goodbye and I say hello, hello, hello. I don't know why you say goodbye, I say hello, hello, hello.

I don't know why you say goodbye, I say hello.

Why, why, why, why, why,

Do you say goodbye.

Oh no.

You say goodbye and I say hello, hello, hello.

I don't know why you say goodbye, I say hello,

hello, hello,

I don't know why you say goodbye, I say hello.

You say yes, I say no,

You say stop and I say go, go, go.



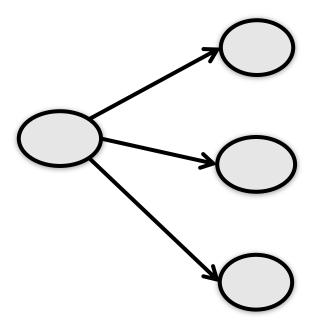
Cover artwork for the single, as used in the US

	Single by The Beatles
B-side	"I Am the Walrus"
Released	November 24, 1967
Format	7"
Recorded	2 October - 2 November 1967
	EMI Studios, London
Genre	Pop rock
Length	3:27
Label	Parlophone
	11 6

Label Parlophone
Writer(s) Lennon-McCartney
Producer George Martin
Certification Gold (RIAA)

Stage 1: Train

Build model based on data





Stage 2: Generate Use model to predict next text