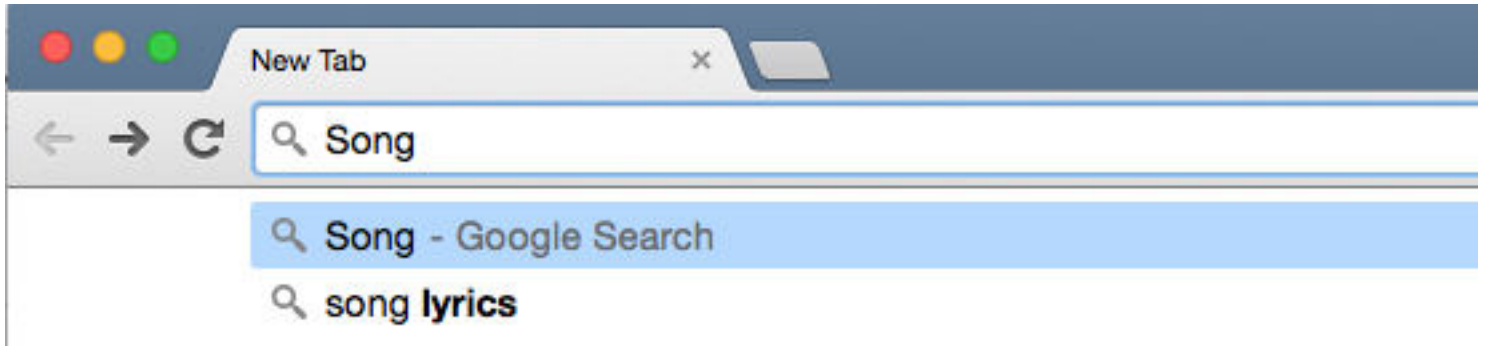
Markov Text Generation

Background

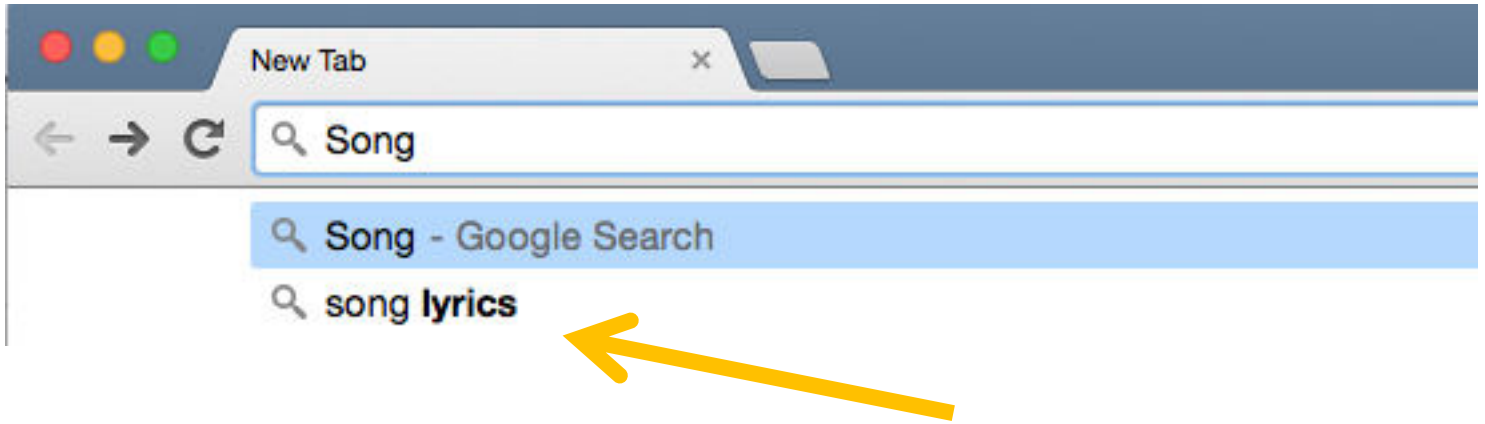
By the end of this video you will be able to…

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

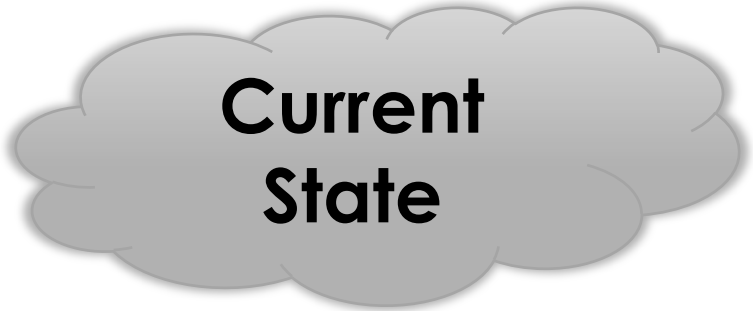
Predicting the future



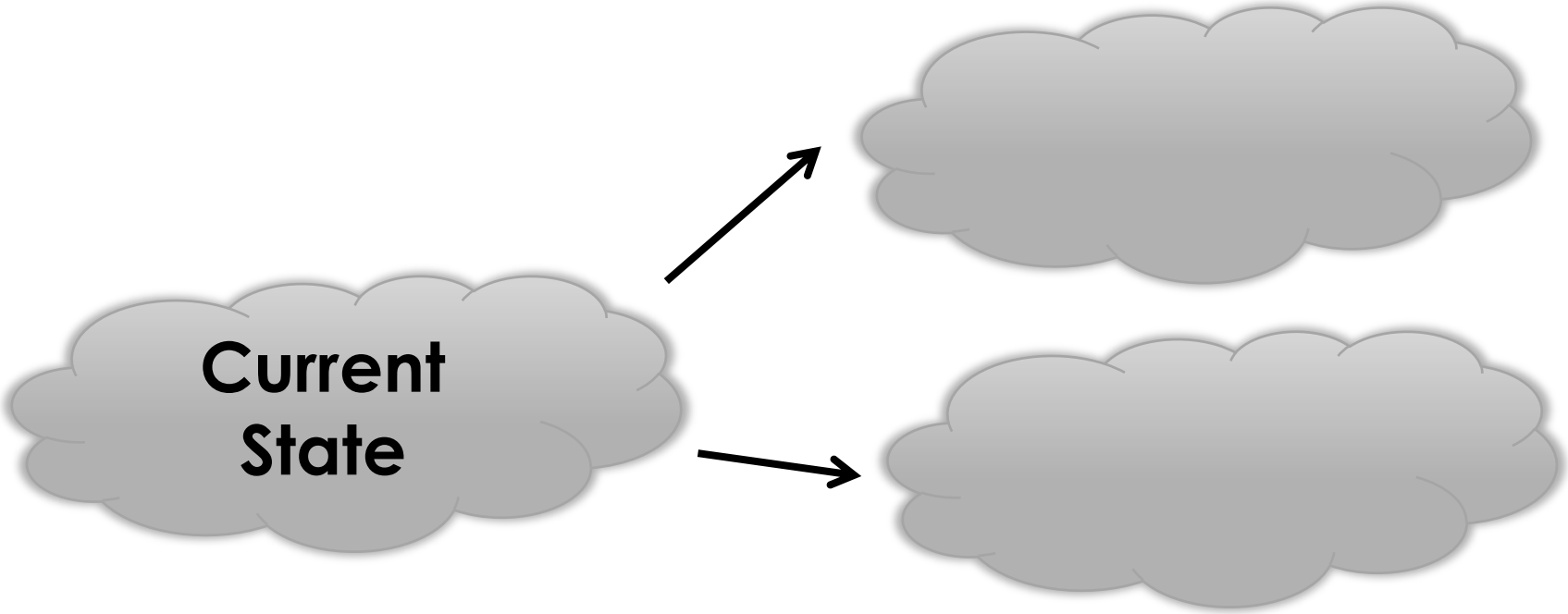
Predicting the future



Predicting the future: Markov processes



Predicting the future: Markov processes



State?

Hello, Goodbye | The Beatles

www.thebeatles.com/song/hello-goodbye

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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, 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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"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

Hello, Goodbye | The Beatles

www.thebeatles.com/song/hello-goodbye

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Hello, Goodbye

SONG

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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, 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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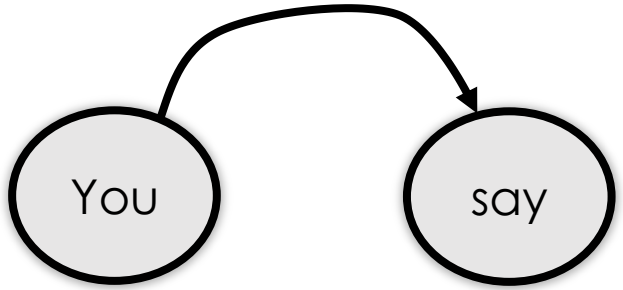
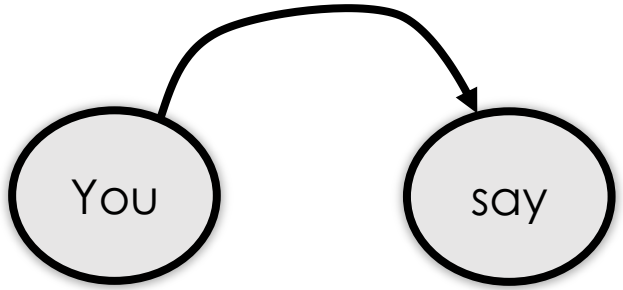
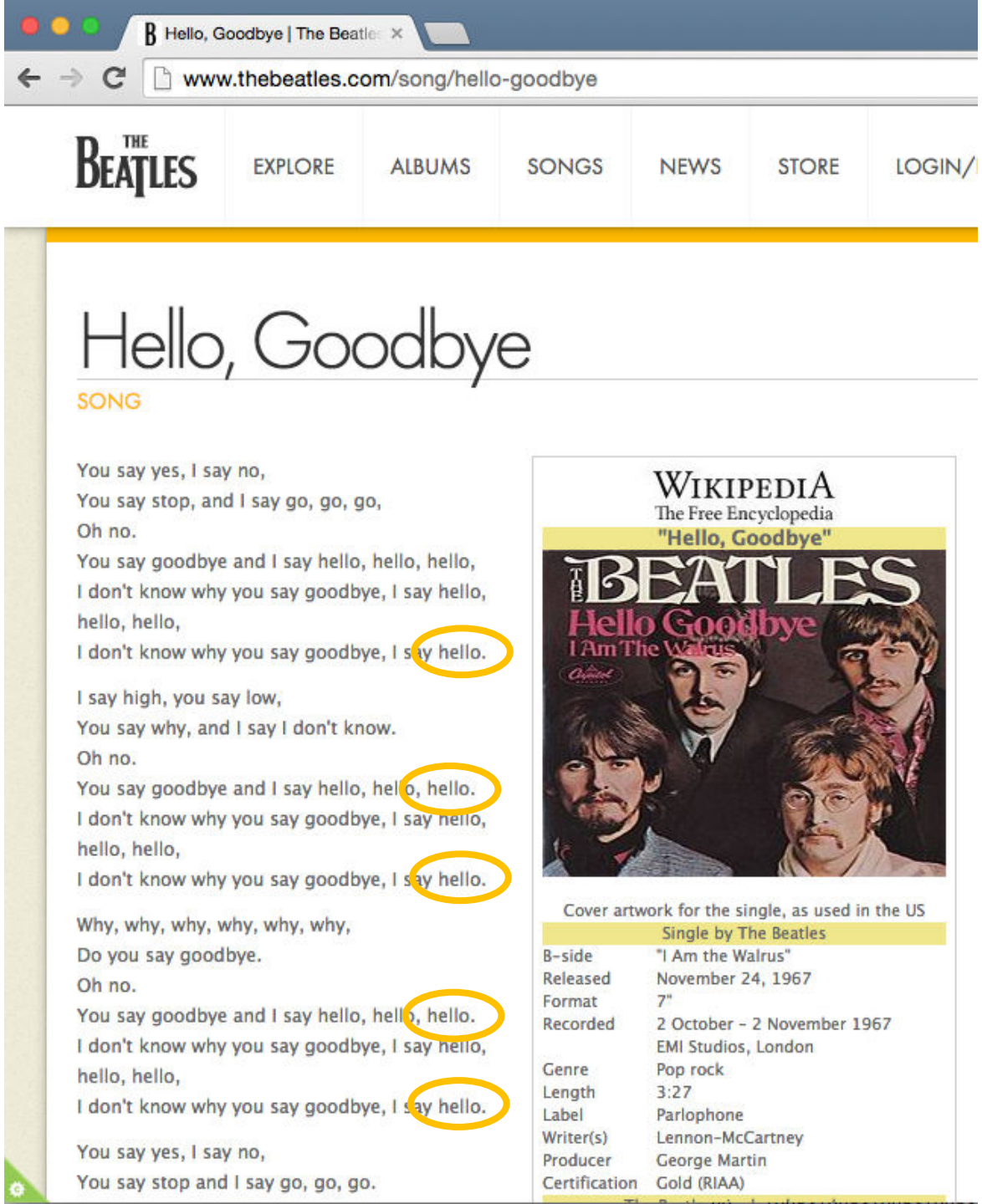




You say hello. I don't know why you say hello, hello. I say goodbye. Oh no. You say no, You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You say goodbye and I say hello, hello, hello.
I don't know why you say goodbye, I say hello,
hello, hello,
I don't know why you say goodbye, I say hello.
Why, 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,
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"Hello, Goodbye"
THE BEATLES
Hello Goodbye
I Am The Walrus
Cover artwork for the single, as used in the US
Single by The Beatles
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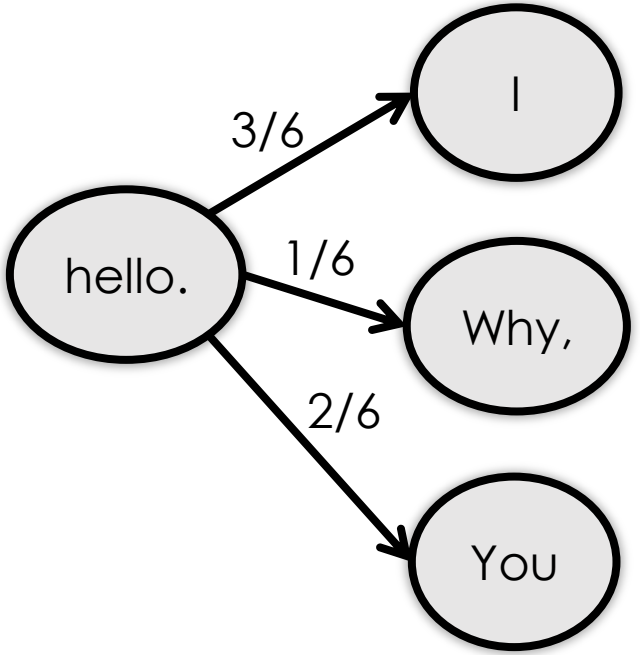
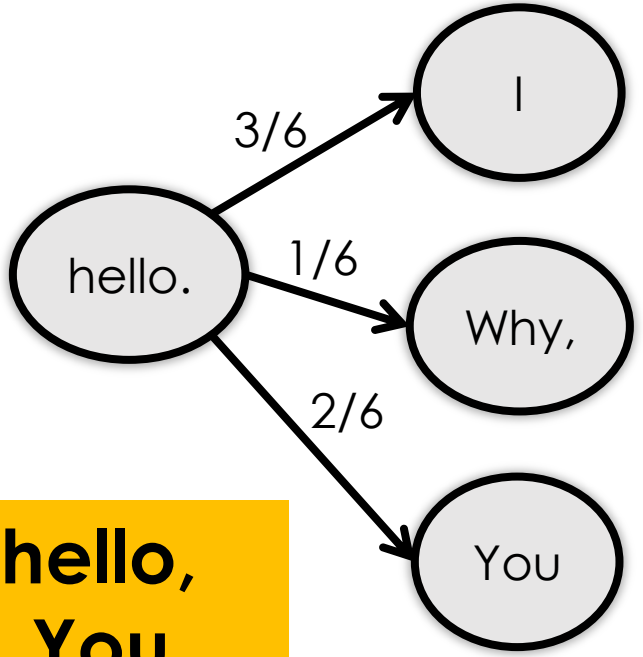
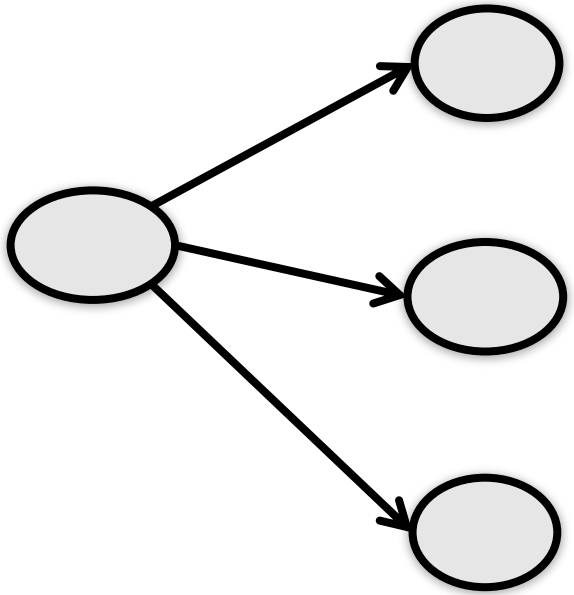

hello.
I
Why,
You
3/6
1/6
2/6

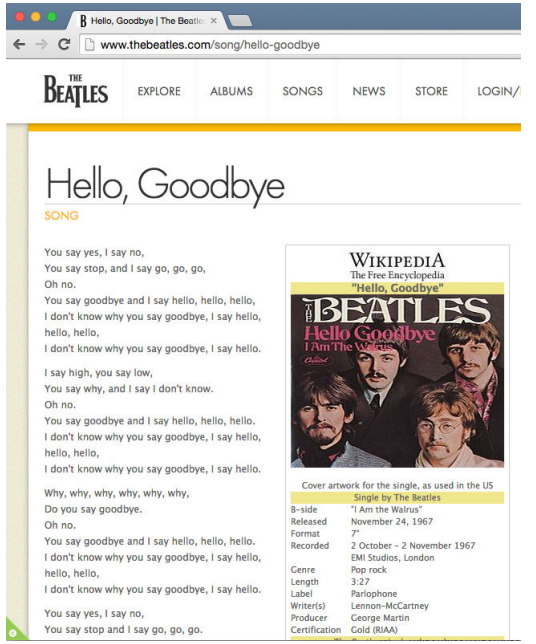


You say hello. I don't know why you say hello, hello. I say goodbye. Oh no. You say no, You

Stage 1: Train

Build model based on data





Stage 2: Generate

Use model to predict next text