



Green Eggs and Ham

A trigram language model

LLMs
Unplugged

A trigram language model derived from *Green Eggs and Ham* by Dr Seuss

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First Edition

Text frequency counts from the text *Green Eggs and Ham* by Dr Seuss, available from https://en.wikipedia.org/wiki/Green_Eggs_and_Ham.

Credits: designed and built by Ben Swift for the Cybernetic Studio. Typeset in Libertinus using Typst. Create your own n-gram model booklet using the online tools at <https://www.llmsunplugged.org/tools>. The source code (v1.4.7) for the tool used to create this model is available under an MIT Licence from <https://github.com/ANUcybernetics/llms-unplugged>.

Model statistics

- **Total tokens:** 993
- **Unique tokens (vocabulary):** 56
- **Unique previous-words contexts:** 193
- **Entropy:** 0.94 bits/token — how unpredictable each dice roll is
- **Perplexity:** 1.9 — effective number of choices per dice roll

Disclaimer: this reference contains a statistical language model derived from text corpus analysis. The patterns within represent probabilistic relationships between words in that text. Any new texts generated by sampling from this language model are statistical in nature and may not always reflect proper grammar, factual accuracy, or appropriate content.

How to use this book

This book contains a trigram language model for generating text using only one or more d10 (ten-sided) dice and a pen and paper to write down the generated text, according to the following algorithm.

Algorithm

To generate new text using the trigram model in this book:

1. **choose a starting word**—pick any bold word from the book (note that punctuation e.g. $\square$ count as words in this model) and write it down
2. **look up the word's entry** (i.e. use this book like a dictionary) to find all possible *next* words according to the model
3. **roll your d10s** (if required): check for diamonds next to the word—this shows how many d10s to roll (e.g., **the** ♦♦ means roll 3 d10s). If there are no diamonds, there's only one possible next word—skip to step 5. Read the dice from left to right as a single number (e.g., rolling 2, 1 and 7 means your roll is 217)
4. **find your next word**: scan through the next-word options until you find the first number $\geq$ your roll, or just use the single word if no dice were rolled (write it down)
5. repeat from step 2 using this word as your new word, continuing this loop until you reach a natural stopping point (like $\square$) or reach your desired text length

Example 1: single d10

Your current word is “**cat**” and its entry shows:

cat 4|sat 7|ran 10|slept

- one diamond (♦) means roll 1 d10
- roll your dice: roll a 6
- find the next word: first number ≥ 6 is 7|ran, so next word is “ran”
- write it down, look it up and continue the process

Example 2: multiple d10s

Your current word is “**the**” and its entry shows:

the ♦♦ 33|cat 66|dog 99|end

- two diamonds (♦♦) means roll 2 d10s
- roll your dice: roll 5 and 8 $\rightarrow$ combine them to get 58
- find the next word: first number ≥ 58 is 66|dog, so next word is “dog”
- write it down, look it up and continue the process

! a train
! and ♦ 5|I 9|you
! could you
! eat them
! here they
! I ♦ 50|do 69|like
89|would 99|will
! If you
! in the
! let me
! not in
! Sam !
! so I
! Thank you
! that Sam
! try them
! would you
! you ♦ 6|let 9|do
, could ♦ 69|not
99|you
, I ♦ 5|say 9|will
, in ♦ 5|the 9|a
, on a
, Sam ♦ 90|I 99|
, so good
, will not
, with a
, would ♦ 6|you 9|not
, you see
, ♦ 5| 7|and 9|say
a train

. and ♦ 54|I 81|in
90|he 99|on
. could you
. I ♦ 63|do 82|will
97|would 99|am
. not ♦ 61|in 91|with
99|on
. Sam ♦ 5|! 9|I
. say !
. so you
. that Sam
. they are
. try them
. would you
. you ♦ 4|may 7|will
9|do
? could you
? eat them
? here in
? I ♦ 5|would 8|do 9|could
? in a
? not ♦ 5|in 9|on
? would you
a boat ♦ 6| 9|?
a box ♦ 8| 9|?
a car ♦ 4|! 8| 9|?
a fox ♦ 8| 9|?
a goat ♦ 5| 7|! 9|?
a house ♦ 8| 9|?
a mouse ♦ 8| 9|?
a train ♦ 6|! 8| 9|?
a tree ♦ 5|! 9|
am ! ♦ 2|and 5|I 7|that
9|would

am . ♦ 3|would 4|a
5|could 6|I 7|say 8|that 9|you
am Sam .
and ham ♦ 54| 81|!
99|?
and he tries
and I ♦ 6|will 9|would
and in ♦ 6|a 9|the
and on a
and there .
and you may
anywhere ! ♦ 5|I
9|you
anywhere . I
are . I
are so good
be ! I
be , I
be . I
boat . ♦ 5|and 9|I
boat ? I
box . ♦ 5|I 8|not 9|and
box ? would
car ! ♦ 6|you 9|Sam
car . ♦ 3|and 6|not 9|you
car ? eat
could not ♦ 6| 8|in
9|with
could you ♦ 8| 9|?
dark ! ♦ 5|not 9|would
dark . ♦ 3|and 6|not
9|would
dark ? ♦ 5|here 9|I
do ! I
do not ♦ 96|like 99|eat

do so like
eat green eggs
eat them ♦ 36|in
59|with 77|here 90|anywhere
99|!
eggs and ham
fox . ♦ 6|I 8|and 9|not
fox ? not
goat ! would
goat . ♦ 5|and 9|I
goat ? I
good , ♦ 5|so 9|you
green eggs and
ham ! ♦ 6|I 9|Thank
ham . ♦ 8|I 9|would
ham ? I
he tries them
here and there
here in the
here or there
here they are
house . ♦ 5|I 8|not
9|and
house ? would
I am ♦ 62| 87|!
99|Sam
I could not
I do ♦ 93|not 96|! 99|so
I like ♦ 5|green 9|them
I say .
I will ♦ 50|not 93|eat
99|try
I would ♦ 85|not 99|eat
If you let
in a ♦ 27|house 51|box
75|car 96|tree 99|boat
in the ♦ 63|dark 99|rain
let me be

like green eggs

like that Sam

like them ♦♦ 29 ☐

47|in 64|with 79|anywhere
93|here 99|☐

may ☐ I

may ☐ try

may like them

me be ♦ 5 ☐ 7 ☐ 9 ☐

mouse ☐ ♦ 6|I 8|and
9|not

mouse ☐ I

not ☐ ♦♦ 46|could 66|in
79|with 86|on 92|will
99|would

not eat ♦♦ 81|them
99|green

not in ♦♦ 79|a 99|the

not like ♦♦ 79|them
96|green 99|that

not on a

not with a

on a ♦ 6|train 9|boat

or there ♦ 8 ☐ 9 ☐

rain ☐ ♦ 6|not 9|and

rain ☐ I

Sam ☐ ♦ 5|If 9|let

Sam ☐ you

Sam ☐ ♦ 5|I 9|Sam

Sam I am

say ☐ ♦ 6|I 9|in

say ☐ ♦ 5|Sam 9|try

see ☐ so

see ☐ ♦ 3 ☐ 6|not 9|you

so good ☐

so I will

so like green

so you say

Thank you ♦ 5 ☐ 9 ☐

that Sam I

the dark ♦ 4 ☐ 6 ☐
9 ☐

the rain ♦ 7 ☐ 9 ☐

them ☐ ♦ 2|and 5|eat
7|here 9|try

them ☐ Sam

them ☐ ♦ 5|you 7 ☐
9|so

them and you

them anywhere ♦
7 ☐ 9 ☐

them here ♦ 8|or 9|and

them in ♦♦ 85|a 99|the

them with a

there ☐ ♦ 8|I 9|say

there ☐ I

they are ♦ 5 ☐ 9|so

train ☐ ♦ 5|a 7|could
9|not

train ☐ ♦ 5|and 9|not

train ☐ not

tree ☐ ♦ 6|not 9|I

tree ☐ ♦ 3|I 6|not 9|they

tries them ☐

try them ♦ 5 ☐ 7 ☐
9|and

will eat them

will not ♦ 7|eat 9 ☐

will see ☐

will try them

with a ♦♦ 42|mouse
78|fox 99|goat

would eat them

would not ♦♦ 61 ☐

84|eat 99|like

would you ♦♦ 33 ☐

66|like 83|eat 91 ☐ 99|on

you ☐ Thank

you ☐ ♦♦ 30|could 50|in

69|would 79|on 89|Sam
99|with

you ☐ ♦ 5|could 9|in

you do not

you eat them

you let me

you like ♦ 7|them
9|green

you may ♦ 5|like 7 ☐
9 ☐

you on a

you say ☐

you see ♦ 5 ☐ 9 ☐

you will see