

How to use these token cutouts



These pages contain the text *Green Eggs and Ham* by Dr Seuss. Each **cutout** shows a **next word** paired with the **previous word** that came immediately before it in the original text.

Model vitals		
993 tokens	56 unique tokens	1.8 bits/token entropy
3.5 perplexity	3.45 branching factor	

Anatomy of a cutout



Every word is assigned one of 8 colours, each with a name you can say out loud. **Previous** words appear inside a coloured box (the word's own colour as the background, in white text); the free-standing **next word** appears in plain coloured text. The same word always wears the same colour, whether you see it inside a box or free-standing. There are far more words than colours, so a colour narrows the search rather than settling it — always verify the word itself matches, not just the colour.

the colours: **black** **grey** **red** **brown** **green** **blue** **purple** **magenta**

Setup

Cut out the tokens along the dotted lines and **spread them out** face-up on the table, with no overlap if possible. This is the “training” step: every (previous, next) combination from the original text is now a physical cutout sitting on your table.

How to play: the matching game

To generate text, repeatedly find a cutout whose **previous word** matches the last word you've written, then **write its next word** onto your page. The word you just wrote becomes part of what you'll match against next — that's the chain.

Worked example

Step 1. Pick any cutout to begin — say this one — and copy its previous word *and* its next word onto your page.



the cutout

Step 2. Look at the last word you've written (*Sam*) and find a cutout whose previous word matches it. Write its next word.



that Sam I

Step 3. Repeat: find a cutout whose previous word matches the last word you've written, and add its next word.



that Sam I am

Keep going — write as much or as little as you like.

Tips

Use colour as a fast filter. Scan by the rightmost previous-word box's colour first, then verify the actual word matches.

Pick from many candidates by eye. The more cutouts share the same previous word, the more often your eye lands on one — that's **weighted sampling** for free, and it's why some words follow others more often in your text.

Put the cutout back after using it — removing it would change the model's distribution next time round.

I I am am Sam Sam . I I am am Sam

Sam . Sam Sam I I am am . that

that Sam Sam I I am am ! ! that that Sam

Sam I I am am ! ! I I do do not not like

like that that Sam Sam I I am am ! ! would

would you you like like green green eggs

eggs and and ham ham ? ? I I do do not

not like like them them , , Sam Sam I I am

am . I I do do not not like like green

green eggs eggs and and ham ham . would

am Sam I am I Sam . am Sam I am I

. that am I am Sam I Sam .

that Sam ! that am I am Sam I that Sam

not like do not I do I ! am I ! am I Sam I

! would am ! I am Sam I that Sam like that

green eggs like green you like would you

do not I do ? I ham ? and ham eggs and

I am Sam I , Sam , them , like them not like

like green not like do not I do I . am .

. would ham . and ham eggs and green eggs

would you you like like them them here

here or or there there ? ? I I would

would not not like like them them here

here or or there there . . I I would

would not not like like them them anywhere

anywhere . . I I do do not not like

like green green eggs eggs and and ham

ham . . I I do do not not like like them

them , , Sam Sam I I am am . . would

would you you like like them them in in a

in a	them in	like them	you like	would you
I would	am .	I am	Sam I	Sam ,
like them	not like	do not	I do	I ham .
and ham	eggs and	green eggs	like green	
not like	do not	I do	I	anywhere .
them anywhere	like them	not like	would not	
I would	I	there .	or there	here or
them here	like them	not like	would not	
I would	I ?	there ?	or there	here or
them here	like them	you like	would you	

a house house ? ? would would you you like

like them them with with a a mouse

mouse ? ? I I do do not not like like them

them in in a a house house . . I I do do not

not like like them them with with a

a mouse mouse . . I I do do not not like

like them them here here or or there there .

. I I do do not not like like them

them anywhere anywhere . . I I do do not

not like like green green eggs eggs and

you like	would you	? would	house ?	a house
a mouse	with a	them with	like them	
like them	not like	do not	I do ?	I mouse ?
do not	I do	house .	a house	in a
do not	with a	them with	like them	not like
not like	do not	I do	I mouse .	a mouse
there .	or there	here or	them here	like them
like them	not like	do not	I do	I
do not	I do	anywhere .	them anywhere	
eggs and	green eggs	like green	not like	

and ham ham . I I do do not not like

like them them , , Sam Sam I I am am .

. would would you you eat eat them

them in in a a box box ? ? would

would you you eat eat them them with

with a a fox fox ? ? not not in in a a box

box . . not not with with a a fox fox . . not

not in in a a house house . . not not with

with a a mouse mouse . I I would

would not not eat eat them them here

not	would	eat	not	eat	them	here
I	would	I	mouse	a	mouse	with a
not	with	not	house	a	house	in a
not	fox	a	fox	not	with a	not
a	box	in a	not in	?	not	fox ?
with a	fox	a	fox	?	not	with a
them	with	eat	them	you	eat	would you
?	would	box	?	a	box	in a
eat	them	you	eat	would	you	would
am	I am	Sam	I	Sam	them	like
not	like	do	not	I	do	I
ham	and	ham	ham	ham	ham	ham

here or or there there . ! I I would

would not not eat eat them them anywhere

anywhere . ! I I would would not not eat

eat green green eggs eggs and and ham

ham . ! I I do do not not like like them

them , , Sam Sam I I am am . ! would

would you you ? ? could could you you ?

? in in a a car car ? ? eat eat them them !

! eat eat them them ! ! here here they

they are are . ! I I would would not not ,

not, would I not I would I are . they are

here they ! here ! them ! eat them ! eat

them ! eat them ? eat ? a car ? in a ? in

you ? could you ? could you ? would you

! would am . I am Sam I , Sam , them ,

like them not like do not I do I ham .

and ham eggs and green eggs eat green

not eat would not I would I anywhere .

them anywhere eat them not eat would not

I would I there . or there or

, could could not not , in in a a car car .

. you you may may like like them them .

. you you will will see see . . you you may

may like like them them in in a a tree

tree ! ! I I would would not not , , could

could not not in in a a tree tree . . not

not in in a a car car ! ! you you let let me

me be be . . I I do do not not like

like them them in in a a box box . . I I do

do not not like like them them with with a

car . a car in a , in not , could , could

them . like them may like you may you

you may you see . will see you will you

a tree in a them in like them may like

, could not , would not I would I ! tree !

! not tree . a tree in a not in could not

let me you let ! you car ! a car in a not in

not like do not I do I be . me be

I do I box . a box in a in them in like them

with a them with like them not like do not

a fox fox . I I do do not not like

like them them in in a a house house . I

I do do not not like like them them with

with a a mouse mouse . I I do do not

not like like them them here here or

or there there . I I do do not not like

like them them anywhere anywhere . I

I do do not not like like green green eggs

eggs and and ham ham . I I do do not

not like like them them , Sam Sam I I am

not like do not I do I fox . a fox

I house . a house in a them in like them

them with like them not like do not I do

do not I do I mouse . a mouse with a

here or them here like them not like

not like do not I do I there . or there

I anywhere . them anywhere like them

green eggs like green not like do not I do

do not I do I ham . and ham eggs and

I am Sam I , Sam them , like them not like

am . a a train train ! ! a a train train ! ! a
a train train ! ! a a train train ! ! could
could you you , , would would you you on
on a a train train ? ? not not on on a
a train train ! ! not not in in a a tree tree !
! not not in in a a car car ! ! Sam Sam !
! let let me me be be ! ! I I would
would not not , , could could not not , , in
in a a box box . . I I would would not not ,
, could could not not , , with with a a fox

fox . I I will will not not eat eat them

them in in a a house house . I I will

will not not eat eat them them with with a

a mouse mouse . I I will will not not eat

eat them them here here or or there there .

. I I will will not not eat eat them

them anywhere anywhere . I I do do not

not eat eat green green eggs eggs and

and ham ham . I I do do not not like

like them them , , Sam Sam I I am am .

am . I am Sam I , Sam like them

not like do not I do I ham . and ham

eggs and green eggs eat green not eat

do not I do I anywhere . them anywhere

eat them not eat will not I will I

there . or there here or them here eat them

not eat will not I will I mouse . a mouse

with a them with eat them not eat will not

I will I . I house . a house in a them in

eat them not eat will not I will I fox .

. say say ! ! in in the the dark dark ?

? here here in in the the dark dark !

! would would you you , , could could you

you , , in in the the dark dark ? ? I

I would would not not , , could could not

not , , in in the the dark dark . . would

would you you , , could could you you , , in

in the the rain rain ? ? I I would would not

not , , could could not not in in the

the rain rain . . not not in in the the dark

dark ? the dark in the in say ! say !	dark ! the dark in the here in ? here	could you , could you , would you !	? I dark ? the dark in the , in you ,	could not , could not , would not I would	! would dark . the dark in the , in not ,	, in you , could you , could you , would you	would not I would ? I rain ? the rain in the	in the not in could not , could not ,	the dark in the not in rain . the rain
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dark . not not on on a a train train . not

not in in a a car car . not not in in a

a tree tree . I I do do not not like

like them them , Sam Sam , you you see

see . not not in in a a house house . not

not in in a a box box . not not with

with a a mouse mouse . not not with

with a a fox fox . I I will will not not eat

eat them them here here or or there there .

I I do do not not like like them

not	a train	on a	not on	not	dark
in a	not in	not	a car	in a	not in
not like	do not	I do	I	tree	a tree
you see	Sam,	Sam,	them,	like	them
not	house	a house	in a	not in	not see
not with	not	mouse	a mouse	with a	
not eat	will not	I will	I	fox	a fox
there	or	here	or	them	eat them
like	them	not like	do not	I do	I

them anywhere anywhere ! ! you you do

do not not like like green green eggs

eggs and and ham ham ? ? I I do do not

not like like them them , , Sam Sam I I am

am . . could could you you , , would

would you you , , with with a a goat goat ?

? I I would would not not , , could

could not not with with a a goat goat !

! would would you you , , could could you

you , , on on a a boat boat ? ? I I could

you do ! you anywhere ! them anywhere

green eggs like green not like do not

do not I do ? I ham ? and ham and eggs

I am Sam I , Sam them , like them not like

, would you , could you ! could am .

goat ? a goat with a , with you , would you

, could not , would not I would I ? I

goat ! a goat with a not with could not

could you , could you , would you ! would

I could I ? I a boat ? a boat on a , on you ,

could not not, , would would not not, , on

on a a boat boat. . I I will will not not,

, will will not not, , with with a a goat

goat. . I I will will not not eat eat them

them in in the the rain rain. . not not in

in the the dark dark ! ! not not in in a

a tree tree ! ! not not in in a a car car !

! you you let let me me be be ! ! I I do

do not not like like them them in in a

a box box. . I I do do not not like

, on , not , would not , would not , could not

not , will not I will I boat . a boat on a

a goat with a , with not , will not , will

eat them not eat will not I will I goat .

not in . not rain . the rain in the them in

in a not in ! not dark ! the dark in the

car ! a car in a not in ! not tree ! a tree

I do ! I be ! me be let me you let ! you

in a them in like them not like do not

not like do not I do I I box . a box

like them them with with a a fox fox . I

I will will not not eat eat them them in

in a a house house . I I do do not not like

like them them with with a a mouse

mouse . I I do do not not like like them

them here here or or there there . I I do

do not not like like them them anywhere

anywhere . I I do do not not like

like green green eggs eggs and and ham

ham ! ! I I do do not not like like them

I	fox	a	fox	with	a	them	like	them
I	will	not	eat	will	not	I	will	I
not	like	do	not	I	do	I	house	in
a	mouse	with	a	them	with	like	them	
like	them	not	like	do	not	I	mouse	
I	do	or	there	here	or	them	here	
them	anywhere	like	not	do	not	I	do	anywhere
and	ham	eggs	and	green	eggs	like	green	
like	them	not	like	do	not	I	do	ham

them , Sam Sam I I am am . you you do
do not not like like them them . so so you
you say say . try try them them ! ! try
try them them ! ! and and you you may
may . try try them them and and you
you may may , I I say say . Sam Sam !
! If If you you let let me me be be , I
I will will try try them them . you
you will will see see and and he
he tries tries them them say say !

say	!	say	.	.	.	.	them	.	tries	them	he	tries
and	he	and	.	.	.	.	see	.	will	see	you	will
		you	.	them	.	try	them	will	try	I	will	
,	I	be	,	me	be	let	me	you	let	If	you	If
Sam	!	Sam	.	say	.	I	say	,	I	may	you	may
and	you	them	and	try	them	.	try	may	.			
you	may	and	you	!	and	them	!	try	them			
!	try	them	!	try	them	.	try	you	say			
so	you	.	so	them	.	like	them	not	like	do	not	
you	do	.	am	.	I	am	Sam	I	,	Sam	them	,

! I I like like green green eggs eggs and

and ham ham ! ! I I do do ! ! I I like

like them them , , Sam Sam I I am am !

! and and I I would would eat eat them

them in in a a boat boat . . and and I

I would would eat eat them them with

with a a goat goat . . and and I I will

will eat eat them them in in the the rain

rain . . and and in in the the dark dark .

. and and on on a a train train . . and

eggs and	green eggs	like	green	I like	I
I like	I	do	I	do	I
I am	I am	Sam	I	Sam	them
eat them	would eat	I would	and I	and	
and I	and	boat	a boat	in a	them in
them with	eat them	would eat	I would		
I will	and I	and	goat	a goat	with a
the rain	in the	them in	eat them	will eat	
dark	the dark	in the	and in	and	rain
and	train	a train	on a	and on	and

and in in a a car car . and and in in a
a tree tree . they they are are so so good
good , , so so good good , , you you see
see ! ! so so I I will will eat eat them
them in in a a box box . and and I I will
will eat eat them them with with a a fox
fox . and and I I will will eat eat them
them in in a a house house . and and I
I will will eat eat them them with with a
a mouse mouse . and and I I will will eat

will eat	I will	and I	and	mouse	a mouse
with a	them	with	eat them	will eat	I will
and I	and	house	a house	in a	them in
eat them	will eat	I will	and I	and	fox
a fox	with a	them	with	eat them	will eat
I will	and I	and	box	a box	in a
eat them	will eat	I will	so I	so I	see !
you see	you	good	so good	so good	good
so good	are so	they are	they	tree	a tree
in a	and in	and	car	in a	and in

eat them them here here and and there

there . . say say ! ! I I will will eat

eat them them anywhere anywhere ! ! I I do

do so so like like green green eggs eggs and

and ham ham ! ! Thank Thank you you !

! Thank Thank you you , , Sam Sam I I am

am .

and there here and them here eat them

will eat I will I say I say there.

I do I anywhere ! them anywhere eat them

eggs and green eggs like green so like do so

you ! Thank you ! Thank ham ! and ham

I am I Sam I , Sam you , Thank you ! Thank

am.