

Search sheets: how to run the activity



The pages after this one are 24 **search sheets**, built from *Green Eggs and Ham* by Dr Seuss. Print them one-sided and hand out **one sheet per person** — every sheet is different, and nothing needs cutting out.

Each sheet holds 41–42 **token pairs**. A **token** is one word or one punctuation mark; a token pair is a **next token** paired with the **previous token** that came immediately before it somewhere in the original text.

In **not eat**, the boxed token is the previous token and *eat* is the next token. Each token keeps the same colour wherever it appears, so scan by colour first and read second. With only 11 colours and far more tokens than that, a colour narrows the search rather than settling it — always check the token itself.

993 tokens, 56 unique · 1.8 bits/token · perplexity 3.5 · branching factor 3.45

Running a round

1. **Call out the last token** of the text so far.
2. Everyone scans their own sheet for token pairs whose previous token matches. **Hands up** — one hand each, and anyone with more than one match just goes with the first they spot.
3. **Pick a raised hand at random** and ask for that token pair's next token.
4. A scribe writes the token on the board. That token becomes part of the context for the next round. Repeat.

Picking at random matters. If you take whoever shouts first you are sampling the fastest reader, not the text — and the whole point is that the room samples the way the model does.

Worked example

Start anywhere. Pick any token pair — say this one — and write its previous token *and* its next token on the board.

Round 1. Call out the last token on the board (*eat*). Another sheet has a match, so that person raises a hand and reads out *green*.

Round 2. Call out the last token on the board (*green*). Another sheet has a match, so that person raises a hand and reads out *eggs*.

Keep going for as long as you like. The text the room writes will sound like *Green Eggs and Ham* without ever repeating it — that is the model generating, not the corpus being read out.

What to watch for

The hands are the probability distribution. Every token pair was dealt to exactly one person, and the deal spreads each context across as many people as it will go, so a common continuation really does put more hands in the air than a rare one. Nobody has to explain weighted sampling; the room performs it. (Roughly: for a context more common than the class is big, somebody holds two matches but raises one hand, which flattens the busiest contexts.)

Nobody holds the model. No single sheet can continue the text on its own. The model only exists across the whole room — and if somebody is away, their share of it is missing, and some contexts will draw no hands at all.

Running dry. If no hands go up, you have reached a context that only ever occurred at the very end of the text. Start again from any token pair.

the token pair that answers

on the board

not eat

not eat

eat green

not eat green

green eggs

not eat green eggs

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "not", then the token pair **not** eat is a match and you answer **eat**.

not eat

! would

car !

Sam I

green eggs

am Sam

and ham

I do

not ,

that Sam

, could

fox .

with a

them anywhere

. they

I am

I do

them .

like green

eggs and

will not

you eat

a train

rain .

do not

a box

do not

them in

? would

not like

here or

like them

in a

in a

mouse .

. I

eat them

you ,

may ,

. .

would not

. so

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "green", then the token pair **green** eggs is a match and you answer eggs.

am !

green eggs

not with

! Thank

eggs and

? I

not like

Sam !

. I

eat green

. .

a mouse

in the

them in

with a

car !

I do

, with

. I

you like

rain .

like green

them in

may like

I will

not like

in a

them ,

you may

do not

here or

fox .

do not

a tree

I like

mouse .

like them

would not

and ham

that Sam

will not

. say

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "not", then the token pair **not** on is a match and you answer **on**.

not on

. not

may like

in a

car .

green eggs

them with

do not

would not

here or

with a

mouse .

not in

a car

will see

do not

see .

Sam I

in the

like them

I do

. and

you say

I do

. I

and ham

eggs and

? I

you see

fox .

, Sam

a car

eat them

that Sam

not in

them in

. and

them here

I am

! you

like them

rain .

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "I", then the token pair **I** am is a match and you answer **am**.

I am

, you

them with

do so

I do

a train

a car

see .

here or

not like

in the

you may

car ?

them with

like green

box ?

do not

with a

I am

on a

like them

fox .

eggs and

not ,

you ,

green eggs

eat them

Sam I

! let

. I

in a

and I

mouse .

, so

not in

they are

? eat

. I

would you

tree !

them !

. I

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "I", then the token pair **I** would is a match and you answer **would**.

. I	I would	would you	, in
like them	Sam !	them ,	a train
you do	? not	or there	with a
, Sam	you ,	them ,	not on
box .	see .	here or	I do
car .	they are	. try	eat them
. I	fox ?	and in	like them
not like	do not	in a	tree .
green eggs	! I	I do	them with
on a	eggs and	do not	a train
in the	not eat		

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "or", then the token pair **or there** is a match and you answer **there**.

or there

in a

eggs and

so like

Sam I

. try

I am

them anywhere

box .

in a

here and

a boat

would not

and you

like them

eat them

not like

. I

them here

would you

! I

I do

tree .

see !

not like

you do

like them

I am

a train

on a

green eggs

, could

, would

them in

do not

not like

? not

car !

. I

are .

do not

you ,

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "a", then the token pair **a** house is a match and you answer **house**.

a house

are so

car .

let me

here or

and on

them ,

like them

on a

in the

you see

do not

would eat

, could

them anywhere

I am

not in

green eggs

like them

? I

! I

eat them

Sam I

not like

. I

do not

would not

a fox

, could

I will

dark ?

or there

them in

. you

in a

you may

tree .

. I

box .

not like

I will

so good

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "not", then the token pair **not** like is a match and you answer **like**.

not like

a train

them here

could you

so you

I do

them here

eat them

I will

! If

a boat

do not

like them

? could

let me

. I

I do

anywhere .

tree !

in the

not in

would you

and ham

like them

you ?

dark .

. say

would not

box .

. and

green eggs

in the

or there

not eat

. I

here in

do not

he tries

, Sam

them anywhere

on a

, with

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "in", then the token pair **in** a is a match and you answer a.

. and

in a

will not

like them

a car

do not

, Sam

. a

them !

them in

eat them

box .

let me

I do

, Sam

I am

and ham

do not

tree !

a car

you let

anywhere .

? I

dark !

could you

not in

the dark

! so

. and

would not

so good

green eggs

like them

not in

not like

. and

in the

I will

on a

or there

them ,

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "like", then the token pair **like** **green** is a match and you answer **green**.

you ,

like green

green eggs

them here

eat them

not ,

a house

would you

! Thank

a mouse

so I

a house

I would

them with

the dark

, in

ham !

there ?

dark .

. I

. not

I do

, Sam

box .

. not

I am

or there

anywhere .

not ,

do not

. and

them anywhere

let me

? I

in a

in a

and ham

will not

not like

I will

could not

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "like", then the token pair **like** **them** is a match and you answer **them**.

dark ?

. I

them ,

like **them**

not ,

. I

a mouse

! you

and I

will not

. I

not like

I **do**

them in

not ,

you let

? I

them !

, could

could you

there .

in a

not like

, could

with a

a mouse

I will

house .

a box

anywhere .

am .

green eggs

would you

do not

ham ?

eat green

I **am**

. not

or there

I will

the rain

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "me", then the token pair **me** be is a match and you answer **be**.

me be

not like

I do

, could

, not

! not

them in

not ,

, .

, I

I would

I do

, would

a tree

a box

a mouse

like that

not with

could not

in a

, Sam

do not

house .

will not

I do

would you

there .

am !

eat them

and he

with a

the rain

dark .

or there

them here

not like

ham !

anywhere .

you will

! could

them .

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "like", then the token pair **like** **them** is a match and you answer **them**.

like **them**

, **on**

. **I**

! **that**

a **mouse**

! **I**

would **you**

will **eat**

eat **them**

could **not**

a **goat**

not **like**

I **do**

house **?**

not **eat**

ham **.**

I **would**

Sam **I**

not **in**

a **fox**

, **would**

dark **!**

them **here**

in **a**

and **ham**

. **I**

them **and**

me **be**

there **.**

I **do**

. **not**

I **do**

not **like**

the **dark**

am **.**

. **I**

them **in**

with **a**

you **like**

do **not**

anywhere **.**

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "and", then the token pair **and** **I** is a match and you answer **I**.

, you

and I

a box

ham .

I would

like them

not like

house .

I would

. I

could not

I will

anywhere !

I do

. would

Sam ,

will not

, would

not ,

. would

am .

them !

! I

with a

like green

eat them

. I

not like

a house

them anywhere

would you

not ,

you on

and in

me be

in a

do not

! I

there .

a goat

the dark

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "a", then the token pair **a** house is a match and you answer **house**.

! not

a house

. I

, could

ham .

will not

do not

house .

would not

like them

there .

. not

I am

a house

could not

them anywhere

I would

with a

not like

not eat

not eat

in the

the dark

and there

like them

me be

you ,

! try

not like

. I

a goat

. you

and ham

I would

eat them

, in

Sam I

them in

am .

I am

anywhere !

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "the", then the token pair **the** dark is a match and you answer **dark**.

the dark

house .

goat !

. I

. and

do not

. you

could you

them in

train .

in a

, on

say .

and in

am .

! Sam

like them

! in

there .

a car

Sam I

with a

will eat

I do

not like

like them

would you

you ,

. I

a tree

I will

not in

a fox

them with

eat them

not ,

, could

ham ?

not in

I would

I say

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "like", then the token pair **like** green is a match and you answer green.

like green

in the

I do

. not

with a

. that

like them

not like

could not

am .

not like

! eat

and you

ham .

there .

a box

would you

not eat

Sam .

a goat

, in

not like

will eat

a mouse

them with

train !

house .

them with

do not

I do

eat them

! a

I will

I do

. and

, will

say !

the rain

. could

goat ?

you ,

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "like", then the token pair **like** **them** is a match and you answer **them**.

like them

a tree

would not

not eat

not in

with a

them ,

them ,

I do

. I

do not

. not

not like

in a

house .

. you

could you

train .

will eat

, with

ham !

not eat

I could

the rain

I would

! and

and I

! would

I will

like them

there .

goat .

Sam .

a fox

a train

. would

you like

say .

, Sam

eat them

am Sam

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "I", then the token pair **I** will is a match and you answer **will**.

I will

. I

not like

ham .

eat them

. not

say !

train !

be .

the dark

I would

like them

. I

will not

you may

, I

I am

do not

them .

like them

am .

. .

with a

Sam I

them in

not in

could you

and ham

I do

a mouse

a house

a car

not like

not ,

, Sam

would not

! and

in the

goat .

! I

in a

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "do", then the token pair **do** not is a match and you answer **not**.

do not

them with

I am

. I

will eat

tries them

I will

! would

not with

you ,

and ham

? in

like them

a box

in a

not in

ham .

I do

not like

. I

. I

, in

boat .

! here

would not

be !

like green

. and

not like

a boat

Sam I

I like

eat them

in a

am !

eggs and

say !

train !

with a

them with

could not

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "eggs", then the token pair **eggs** **and** is a match and you answer **and**.

eggs and

train !

If you

be !

not eat

. I

and I

Sam I

will eat

them anywhere

a box

, Sam

them here

do not

? would

I will

. I

I do

could not

. .

eat them

not with

in a

not ,

mouse .

! not

a fox

would you

. I

I do

try them

like them

am .

! a

I am

in a

you ?

not eat

with a

boat .

like green

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "like", then the token pair **like** **them** is a match and you answer **them**.

like them

you will

a train

Thank you

boat ?

in a

, could

. say

. Sam

not ,

. not

will try

and ham

them with

I would

Sam I

not with

eggs and

do not

in a

a fox

be ,

. I

? I

try them

do not

! I

eat them

train ?

not ,

you like

! a

here they

with a

them here

am !

I would

mouse .

I am

like them

would eat

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "you", then the token pair **you** eat is a match and you answer **eat**.

you eat

I do

, Sam

with a

eat them

! would

! and

not like

try them

them in

not in

Sam I

Thank you

! I

do !

mouse .

you let

will eat

and I

a house

a tree

? here

eggs and

like them

good ,

like them

train !

I will

in a

them .

in a

would not

do not

fox .

not in

I do

! not

here or

! not

! I

am .

When the token called out matches the boxed token of a token pair below, raise your hand, and read out that token pair's **next token** if you're picked. If more than one token pair matches, just go with the first one you spot. (A token is one word or one punctuation mark.) For example, if the token called out is "would", then the token pair **would** **not** is a match and you answer **not**.

would not

like them

. Sam

fox .

in a

may .

. not

I do

I would

in a

, I

do not

mouse ?

not like

rain ?

not like

not ,

eat them

them ,

try them

here or

eggs and

do not

Sam I

like green

will see

. you

! you

? I

. I

good ,

a fox

a tree

am .

! I

and I

you ,

I do

with a

you !

them ,