

How to use these token cutouts



These pages contain the text *Where Is the Green Sheep?* by Mem Fox and Judy Horacek. Each **cutout** shows a **next word** paired with the **previous word** that came immediately before it in the original text.

Model vitals		
224 tokens	47 unique tokens	1.12 bits/token entropy
2.2 perplexity	1.74 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.

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

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

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

the cutout

here is

is the

the blue

your page

here is

here is the

here is the blue

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.

here here is is the the blue blue sheep

sheep . and and here here is is the the red

red sheep sheep . here here is is the

the bath bath sheep sheep . and and here

here is is the the bed bed sheep sheep .

. But But where where is is the the green

green sheep sheep ? ? here here is is the

the thin thin sheep sheep , , and and here

here is is the the wide wide sheep sheep .

. here here is is the the swing swing sheep

blue sheep the blue is the here is here

the red is the here is and here and sheep .

is the here is here sheep . red sheep

and here and sheep . bath sheep the bath

sheep . bed sheep the bed is the here is

the green is the where is But

is the here is ? here sheep ? green sheep

and here and , sheep , thin sheep the thin

sheep . wide sheep the wide is the here is

swing sheep the swing is the here is here

sheep . and and here here is is the
the slide slide sheep sheep . But But where
where is is the the green green sheep
sheep ? ? here here is is the the up
up sheep sheep , , and and here here is
is the the down down sheep sheep . here
here is is the the band band sheep sheep .
. and and here here is is the the clown
clown sheep sheep . But But where
where is is the the green green sheep

green sheep the green is the where is

But where But sheep clown sheep

the clown is the here is and here and

sheep band sheep the band is the here is

here sheep down sheep the down is the

here is and here and sheep up sheep

the up is the here is here is sheep ?

green sheep the green is the where is

But where But sheep slide sheep the slide

is the here is and here and sheep

sheep ? ? here here is is the the near

near sheep sheep . . and and here here is

is the the far far sheep sheep . . here

here is is the the car car sheep sheep ,

, and and here here is is the the train

train sheep sheep . . But But where where is

is the the green green sheep sheep ? ? here

here is is the the wind wind sheep sheep .

. and and here here is is the the wave

wave sheep sheep . . here here is is the

the near is the here is ? here sheep ?

here is and here and sheep . near sheep

here sheep . far sheep the far is the

sheep , car sheep the car is the here is

the train is the here is and here , and

where is But where . But sheep . train sheep

? here sheep ? green sheep the green is the

sheep . wind sheep the wind is the here is

the wave is the here is and here and

is the here is here sheep . wave sheep

the scared scared sheep sheep , and

and here here is is the the brave

brave sheep sheep . But But where

where is is the the green green sheep

sheep ? ? here here is is the the sun

sun sheep sheep . and and here here is

is the the rain rain sheep sheep . here

here is is the the moon moon sheep sheep .

. and and here here is is the the star

star sheep sheep . But But where where is

, and sheep, scared sheep the scared

the brave is the here is and here

But where But sheep brave sheep

green sheep the green is the where is

the sun is the here is ? here sheep ?

here is and here and sheep sun sheep

here sheep rain sheep the rain is the

sheep moon sheep the moon is the here is

the star is the here is and here and

where is But where But sheep star sheep

is the the green green sheep sheep ?

? where where is is that that green

green sheep sheep ? ? Turn Turn the

the page page quietly quietly let's let's take

take a a peep peep Here's

Here's our our green green sheep sheep ,

, fast fast asleep asleep .

sheep ?	green sheep	the green	is the
that green	is that	where is	? where
Turn the ?	Turn sheep ?	green sheep	
let's take	quietly let's	page quietly	the page
Here's	peep .	a peep	take a
sheep , green	our green	Here's our	
asleep .	fast asleep	, fast	