



How to use these token cutouts

These pages contain the text *We're Going on a Bear Hunt* by Michael Rosen. Each **cutout** shows a **next word** paired with the **previous word** that came immediately before it in the original text.

Model vitals	
560 tokens	1.39 bits/token entropy
2.6 perplexity	1.93 branching factor

Anatomy of a cutout



Every distinct word has its own colour. **Previous** words appear inside a coloured box (the word's own colour as the background, with 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. Two unrelated words can occasionally share a colour, so always verify the word itself matches—not just the colour.

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 (*going*) 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.

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.

the cutout

We're going

going on

on a

your page

We're going

We're going on

We're going on a

We're **We're** going **going** on **on** a **a** bear

bear hunt **hunt** ! **!** We're **We're** going **going** to

to catch **catch** a **a** big **big** one **one** . **.** What

What a **a** beautiful **beautiful** day **day** . **.** We're

We're not **not** scared **scared** . **.** oh **oh** oh **oh** !

! grass **grass** ! **!** Long **Long** , **,** wavy

wavy grass **grass** . **.** We **We** can't **can't** go

go **over** **over** it **it** . **.** We **We** can't **can't** go

go under **under** it **it** . **.** oh **oh** , **,** no **no** !

! We've **We've** got **got** to **to** go **go** through

go through to go We've got to go We've got ! We've

no ; no , oh , oh it . under it go under

can't go We can't We can't . over it go over

can't go We can't We can't . wavy grass

! wavy , Long , Long grass ! grass

oh ! oh oh . scared . not scared We're not

! We're day . beautiful day a beautiful What a

! What one . big one a big catch a to catch

going to We're going ! We're hunt ! bear hunt

a bear on a going on We're going We're

through it **it** ! ! Swishy **Swishy** swashy

swashy ! ! Swishy **Swishy** swashy **swashy** !

! Swishy **Swishy** swashy **swashy** ! ! We're

We're going **going** on **on** a **a** bear **bear** hunt

hunt ! ! We're **We're** going **going** to **to** catch

catch a **a** big **big** one **one** . . What **What** a

a beautiful **beautiful** day **day** . . We're

We're not **not** scared **scared** . . oh **oh** oh **oh** !

! a **a** river **river** ! ! a **a** deep **deep** , , cold

cold river **river** . . We **We** can't **can't** go

go over over it it . We We can't can't go

go under under it it . oh oh , , no no !

! We've We've got got to to go go through

through it it ! ! Splash Splash splosh splosh !

! Splash Splash splosh splosh ! ! Splash

Splash splosh splosh ! ! We're We're going

going on on a a bear bear hunt hunt ! ! We're

We're going going to to catch catch a a big

big one one . What What a a beautiful

beautiful day day . We're We're not

We're not ! We're day beautiful day

a beautiful What a ! What one big one

a big catch a to catch going to We're going

! We're hunt ! bear hunt a bear on a going on

We're going ! We're splash splash ! splash splash

! splash ! splash splash ! splash splash

splash ! splash splash ! splash it ! through it

go through to go got to We've got ! We've

no ! , no oh , ! oh it . under it go under

can't go We can't ! We it . over it go over

not scared scared . oh oh oh ! ! mud

mud ! ! Thick Thick , , oozy oozy mud mud .

. We We can't can't go go over over it it .

. We We can't can't go go under under it it .

. oh oh , , no no ! ! We've We've got got to

to go go through through it it ! ! Squelch

Squelch squerch squerch ! ! Squelch

Squelch squerch squerch ! ! Squelch

Squelch squerch squerch ! ! We're We're going

going on on a a bear bear hunt hunt ! ! We're

! We're hunt ! bear hunt a bear on a going on

We're going ! We're squerch ! We're squerch

! squerch ! squerch squerch

! squerch ! squerch squerch

! squerch it ! through it go through to go

got to We've got ! We've no ! no oh , oh

it . under it go under can't go We can't We

it . over it go over can't go We can't We

mud . oozy mud , oozy Thick , Thick mud !

! mud oh ! oh oh oh ! oh not scared

We're going **going** to **to** catch **catch** a **a** big

big one **one** . **.** What **What** a **a** beautiful

beautiful day **day** . **.** We're **We're** not

not scared **scared** . **.** oh **oh** oh **oh** ! **!** a

a forest **forest** ! **!** a **a** big **big** , **,** dark

dark forest **forest** . **.** We **We** can't **can't** go

go over **over** it **it** . **.** We **We** can't **can't** go

go under **under** it **it** . **.** oh **oh** , **,** no **no** !

! We've **We've** got **got** to **to** go **go** through

through it **it** ! **!** Stumble **Stumble** trip **trip** !

trip ! Stumble trip Stumble ! it ! through it

go through to go got to We've got ! We've

no ! , no , oh , oh ! it . under it go under

can't go We can't We can't ! We can't ! over it go over

can't go We can't We can't ! We can't ! dark forest forest

, dark , big , a big ! a forest ! a forest

! a oh ! oh ! oh ! scared . not scared

We're not ! We're ! day . beautiful day

a beautiful What a What ! one . big one

a big catch a to catch going to We're going

! Stumble **Stumble** trip **trip** ! ! Stumble

Stumble trip **trip** ! ! We're **We're** going

going on **on** a **a** bear **bear** hunt **hunt** ! ! We're

We're going **going** to **to** catch **catch** a **a** big

big one **one** . . What **What** a **a** beautiful

beautiful day **day** . . We're **We're** not

not scared **scared** . . oh **oh** oh **oh** ! ! a

a snowstorm **snowstorm** ! ! a **a** swirling

swirling , , whirling **whirling** snowstorm

snowstorm . . We **We** can't **can't** go **go** over

over it **it** . **We** **We** can't **can't** go **go** under

under it **it** . **oh** **oh** , **no** **no** ! **We've**

We've got **got** to **to** go **go** through **through** it

it ! **Hoooo** **Hoooo** woooo **woooo** ! **Hoooo**

Hoooo woooo **woooo** ! **Hoooo** **Hoooo** woooo

woooo ! **We're** **We're** going **going** on **on** a

a bear **bear** hunt **hunt** ! **We're** **We're** going

going to **to** catch **catch** a **a** big **big** one **one** .

What **What** a **a** beautiful **beautiful** day **day** .

We're **We're** not **not** scared **scared** . **oh**

oh scared not We're not We're

day beautiful day a beautiful What a What

one big one a big catch a to catch going to

We're going We're hunt bear hunt a bear

on a going on We're going We're woooo

Hoooo woooo Hoooo woooo Hoooo woooo

Hoooo woooo Hoooo woooo Hoooo woooo it

through it go through to go got to We've got

We've no oh no oh it under it

go under can't go We can't We it over it

oh oh oh ! ! a a cave cave . . a a narrow

narrow , , gloomy gloomy cave cave . . We

We can't can't go go over over it it . . We

We can't can't go go under under it it . . oh

oh , , no no ! ! We've We've got got to to go

go through through it it ! ! Tiptoe Tiptoe !

! Tiptoe Tiptoe ! ! Tiptoe Tiptoe ! ! What's

What's that that ? ? one one shiny shiny wet

wet nose nose ! ! Two Two big big furry

furry ears ears ! ! Two Two big big googly

googly eyes eyes ! ! It's It's a a bear bear !

! Quick Quick back back through through the

the cave cave ! ! Tiptoe Tiptoe ! ! Tiptoe

Tiptoe ! ! Tiptoe Tiptoe ! ! back back through

through the the snowstorm snowstorm !

! Hoooo Hoooo woooo woooo ! ! Hoooo

Hoooo woooo woooo ! ! Hoooo Hoooo woooo

woooo ! ! back back through through the

the forest forest ! ! Stumble Stumble trip trip !

! Stumble Stumble trip trip ! ! Stumble

Stumble trip **trip** ! **!** back **back** through

through the **the** mud **mud** ! **!** Squelch

Squelch squerch **squerch** ! **!** Squelch

Squelch squerch **squerch** ! **!** Squelch

Squelch squerch **squerch** ! **!** back **back** through

through the **the** river **river** ! **!** Splash

Splash splosh **splosh** ! **!** Splash **Splash** splosh

splosh ! **!** Splash **Splash** splosh **splosh** ! **!** back

back through **through** the **the** grass **grass** !

! Swishy **Swishy** swashy **swashy** ! **!** Swishy

Swishy swashy

swashy ! ! Swishy

Swishy swashy

swashy ! ! Get Get to to our

our front front door door . . Open Open the

the door door . . Up Up the the stairs stairs .

. oh oh , , no no ! ! We We forgot forgot to

to shut shut the the door door . . back

back downstairs downstairs . . shut shut the

the door door . . back back upstairs upstairs .

. Into Into the the bedroom bedroom . . Into

Into bed bed . . under under the the covers

the covers under the bed • under • bed • Into bed

Into bedroom • the bedroom • Into the • Into

upstairs • back upstairs • back • door • the door

shut the • shut • downstairs • back downstairs

back • door • the door • shut the • to shut

forgot to We forgot • We • no • oh • oh

stairs • the stairs • Up the • door • the door

Open the • Open • door • front door • our front

to our • Get to • Get • Swishy • Swishy

Swishy • Swishy • Swishy

covers .

. We're

We're

not

not

going

going

on

on a

a bear

bear

hunt

hunt

again

again

!

going on not going We're not We're covers
again ! hunt again bear hunt a bear on a