

Public Libraries & AI



2. Accuracy and Context

Series 2: AI Risks and Limitations



What's the population of Mars?



Hallucination

AI-generated content or information that's completely false or doesn't exist.



Elusive Elusive Spelling Hallucination!

feat in 1908. Throughout the team's history, they've experienced periods of success and failure. In recent years, the Cubs broke a 108-year **draught** by winning the World Series in 2016. However, the early history of the Cubs is marked by a resilience and the foundation of what would become a legendary baseball legacy.

human: I noticed that you said "broke a 108-year draught" -- why not "drought?" is there a usage difference?

assistant: Apologies for the confusion. It was a typographical error, the correct term in this context should indeed be "drought". In English, "drought" and "draught" are two distinct words with different meanings. "Drought" is used to describe a prolonged period without rain, often resulting in a water shortage. Metaphorically, it's used to denote a long period without something – in this case, the Cubs' long stretch without a World Series win. On the other hand, "draught" is used to describe a current of air, a serving of drink (especially beer), or, in British English, it can mean the act of drawing or pulling a load. Therefore, the sentence should read, "In recent years, the Cubs broke a 108-year drought by winning the World Series in 2016." Sorry for that mistake!

What Does AI Know?

1. Who was the first ruler to unify ancient Egypt under a single monarchy?
2. What is the chemical formula for glucose, and why is it important in biology?
3. What is the significance of the Kyoto Protocol in global environmental policy?
4. Which two countries share the longest unbroken land border in the world?
5. Which 19th-century author wrote *Crime and Punishment*, and what is the central theme of the novel?
6. What is the smallest country in the world by both area and population?
7. In the Marvel Cinematic Universe, what is the name of Thor's enchanted hammer, and what makes it special?
8. What is the Pythagorean Theorem, and in which type of geometry is it used?
9. Who painted the ceiling of the Sistine Chapel, and during which period was it completed?
10. What is the main difference between a comet and an asteroid?

What Does AI Know?

1. First ruler to unify ancient Egypt under a single monarchy:

The first ruler to unify ancient Egypt under a single monarchy was **King Narmer** (also known as Menes), who is believed to have united Upper and Lower Egypt around 3100 BCE.

2. Chemical formula for glucose and its importance in biology:

The chemical formula for glucose is **C₆H₁₂O₆**. It is important in biology because it is a primary energy source for cells. Glucose is used in cellular respiration to produce ATP, the main energy carrier in cells.

3. Significance of the Kyoto Protocol in global environmental policy:

The Kyoto Protocol, adopted in 1997, is significant because it was the first international treaty aimed at reducing greenhouse gas emissions to combat climate change. It set binding emission reduction targets for industrialized countries.

4. Two countries that share the longest unbroken land border in the world:

Canada and the United States share the longest unbroken land border in the world, stretching over 8,891 kilometers (5,525 miles).

5. Author of *Crime and Punishment* and the central theme of the novel:

The 19th-century author who wrote *Crime and Punishment* is **Fyodor Dostoevsky**. The central theme of the novel is the psychological and moral dilemmas faced by the protagonist, Rodion Raskolnikov, after committing a murder, exploring guilt, redemption, and the nature of crime.

6. Smallest country in the world by both area and population:

The smallest country in the world by both area and population is **Vatican City**, with an area of about 44 hectares (110 acres) and a population of around 800 people.

7. Thor's enchanted hammer in the Marvel Cinematic Universe and what makes it special:

Thor's enchanted hammer is called **Mjolnir**. What makes it special is that it is imbued with mystical properties, and only those deemed "worthy" can lift it, granting them access to its immense power.

8. The Pythagorean Theorem and the type of geometry it is used in:

The Pythagorean Theorem states that in a right-angled triangle, the square of the length of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the lengths of the other two sides. It is used in **Euclidean geometry**.

9. Who painted the ceiling of the Sistine Chapel and during which period it was completed:

The ceiling of the Sistine Chapel was painted by **Michelangelo**, and it was completed between **1508 and 1512** during the **Renaissance period**.

10. Main difference between a comet and an asteroid:

The main difference between a comet and an asteroid is that **comets** are icy bodies that originate from the outer regions of the solar system, and when they approach the Sun, they develop a glowing coma and a tail. **Asteroids**, on the other hand, are rocky or metallic objects that primarily orbit in the asteroid belt between Mars and Jupiter.

LLMs Live in the Past

Who won the 2024 World Series, and what was the win-loss breakdown between the teams? Don't search the web.

As of my last knowledge cutoff in October 2023, I don't have any information about the 2024 World Series. For the most accurate and up-to-date results, please consult a reliable sports news source or check online.

LLMs with Real-time Internet Access

Who won the 2024 World Series, and what was the win-loss breakdown between the teams? You can search the web if necessary.

The Los Angeles Dodgers won the 2024 World Series, defeating the New York Yankees four games to one. This victory marked the Dodgers' eighth championship in franchise history and their first full-season title since 1988. THE WALL STREET JOURNAL

In Game 1, Freddie Freeman hit a walk-off grand slam, the first in World Series history, leading the Dodgers to a 6-3 win. WIKIPEDIA

The Dodgers secured victories in the first three games, lost Game 4, and clinched the championship in Game 5 with a 7-6 comeback win, overcoming a 5-0 deficit—the largest comeback in a World Series clinching game. MLB

Freddie Freeman was named the World Series Most Valuable Player, tying a Series record with 12 RBIs and hitting home runs in each of the first four games. AP NEWS

LLMs with Real-time Internet Access

Dodgers' Historic Comeback Seals 2024 World Series Victory

 Reuters

Dodgers beat Yankees in wild World Series finale

62 days ago

 AP News

Dodgers win World Series in 5 games, overcome 5-run deficit with help of errors to beat Yankees 7-6

62 days ago

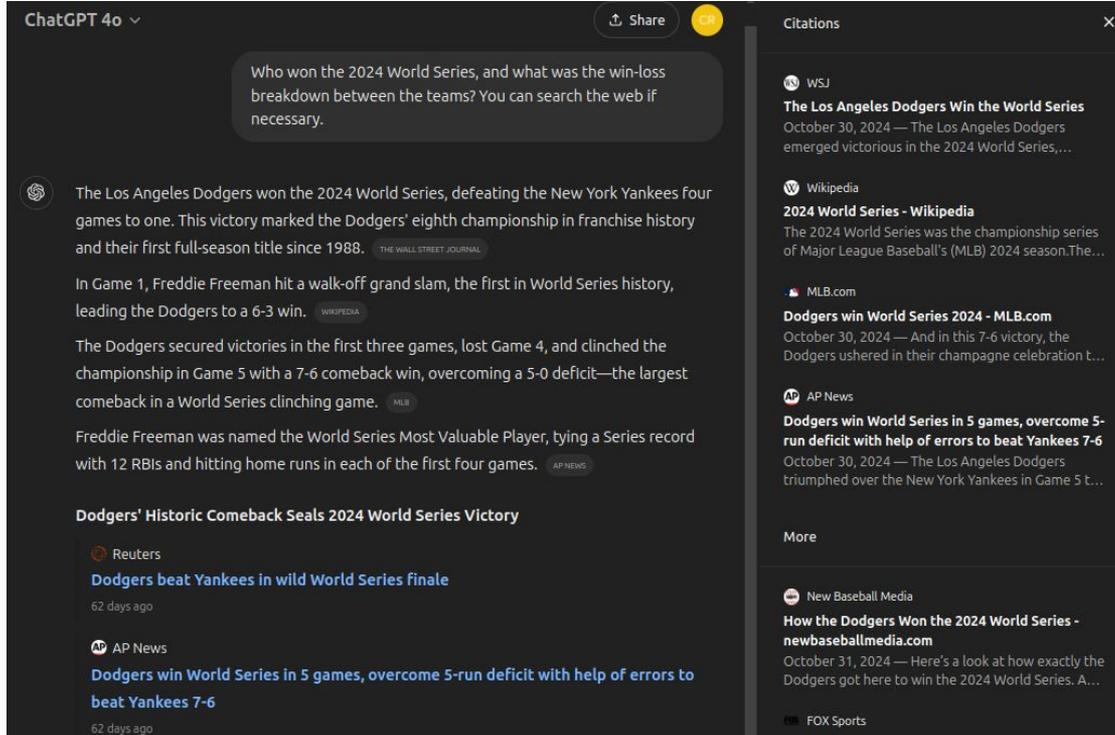
 The Wall Street Journal

The Los Angeles Dodgers Win the World Series

62 days ago

Sources  

LLMs with Real-time Internet Access



ChatGPT 4o Share CR

Who won the 2024 World Series, and what was the win-loss breakdown between the teams? You can search the web if necessary.

The Los Angeles Dodgers won the 2024 World Series, defeating the New York Yankees four games to one. This victory marked the Dodgers' eighth championship in franchise history and their first full-season title since 1988. THE WALL STREET JOURNAL

In Game 1, Freddie Freeman hit a walk-off grand slam, the first in World Series history, leading the Dodgers to a 6-3 win. WIKIPEDIA

The Dodgers secured victories in the first three games, lost Game 4, and clinched the championship in Game 5 with a 7-6 comeback win, overcoming a 5-0 deficit—the largest comeback in a World Series clinching game. MLB

Freddie Freeman was named the World Series Most Valuable Player, tying a Series record with 12 RBIs and hitting home runs in each of the first four games. AP NEWS

Dodgers' Historic Comeback Seals 2024 World Series Victory

Reuters
Dodgers beat Yankees in wild World Series finale
62 days ago

AP News
Dodgers win World Series in 5 games, overcome 5-run deficit with help of errors to beat Yankees 7-6
62 days ago

Citations ✕

- WSJ
The Los Angeles Dodgers Win the World Series
October 30, 2024 — The Los Angeles Dodgers emerged victorious in the 2024 World Series,...
- Wikipedia
2024 World Series - Wikipedia
The 2024 World Series was the championship series of Major League Baseball's (MLB) 2024 season.The...
- MLB.com
Dodgers win World Series 2024 - MLB.com
October 30, 2024 — And in this 7-6 victory, the Dodgers ushered in their champagne celebration t...
- AP News
Dodgers win World Series in 5 games, overcome 5-run deficit with help of errors to beat Yankees 7-6
October 30, 2024 — The Los Angeles Dodgers triumphed over the New York Yankees in Game 5 t...
- New Baseball Media
How the Dodgers Won the 2024 World Series - newbaseballmedia.com
October 31, 2024 — Here's a look at how exactly the Dodgers got here to win the 2024 World Series. A...
- FOX Sports

Context

Information provided to an AI for a specific task or situation.



A Contextual AI Experiment

CR What's the deal with Anne of Green Gables and the raspberry cordial?

 Anne of Green Gables is a classic novel written by L.M. Montgomery, first published in 1908. It tells the story of Anne Shirley, a young orphan girl with a vivid imagination, who is mistakenly sent to live with siblings Marilla and Matthew Cuthbert on their farm, Green Gables, on Prince Edward Island in Canada.

The raspberry cordial incident is a significant and humorous episode in the story. Anne invites her new friend, Diana Barry, over to Green Gables for an afternoon tea. Anne wants to be the perfect hostess and decides to serve what she believes to be raspberry cordial, a non-alcoholic drink made from raspberries, sugar, and water. However, Anne mistakenly grabs a bottle of currant wine instead of raspberry cordial, and both girls drink several glasses of it.

Diana becomes intoxicated, and her mother is furious when she finds out. As a result, she forbids Diana from associating with Anne, believing her to be a bad influence. Anne is devastated by the loss of her friendship with Diana and feels terrible about the mistake. The incident eventually leads Anne to reflect on her impulsiveness and the importance of being



A Contextual AI Experiment



describe the slippers Anne got for Christmas



In "Anne of Green Gables," Anne receives a pair of lovely soft, furry slippers for Christmas from Matthew Cuthbert, who has grown fond of her. These slippers are described as being made of red cloth, with fur trimming around the top, and a ribbon bow on the front. The slippers are a symbol of the love and acceptance Anne starts to experience from her new family at Green Gables. The gift is especially meaningful because it is one of the first times Anne receives a Christmas present, and it is a thoughtful, personal gift that shows Matthew's understanding of Anne's love for beautiful things. The slippers also reflect the growing bond between Anne and Matthew, which becomes one of the most heartwarming aspects of the novel.

A Contextual AI Experiment

I'm sorry I'm not a model little girl; and I always resolve that I will be in future. But somehow it's hard to carry out your resolutions when irresistible temptations come. Still, I really will make an extra effort after this."

When the commonplace breakfast was over Diana appeared, crossing the white log bridge in the hollow, a gay little figure in her crimson ulster. Anne flew down the slope to meet her.

"Merry Christmas, Diana! And oh, it's a wonderful Christmas. I've something splendid to show you. Matthew has given me the loveliest dress, with *such* sleeves. I couldn't even imagine any nicer."

"I've got something more for you," said Diana breathlessly. "Here—this box. Aunt Josephine sent us out a big box with ever so many things in it—and this is for you. I'd have brought it over last night, but it didn't come until after dark, and I never feel very comfortable coming through the Haunted Wood in the dark now."

Anne opened the box and peeped in. First a card with "For the Anne-girl and Merry Christmas," written on it; and then, a pair of the daintiest little kid slippers, with beaded toes and satin bows and glistening buckles.

"Oh," said Anne, "Diana, this is too much. I must be dreaming."

"I call it providential," said Diana. "You won't have to borrow Ruby's slippers now, and that's a blessing, for they're two sizes too big for you, and it would be awful to hear a fairy chuffing. Jessie Dye would be delighted. Mind you, Deb

A Contextual AI Experiment

- The slippers come from Diana's Aunt Josephine, not from Matthew;
- The slippers are made from kid (goat skin), not furry red cloth;
- Matthew gave Anne the dress with the puffy sleeves.

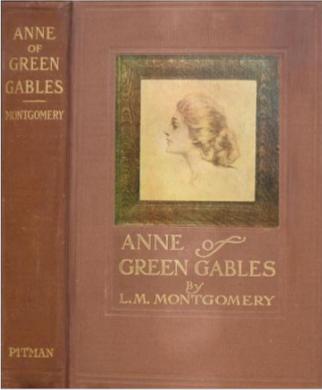


Relationships and Connections

- Language, images, other data transformed into numbers
- "Semantic search" understands meaning & context
- Involves a LOT of math!



Let's Give the AI Context



CHAPTER I
Mrs. Rachel Lynde is Surprised

Mrs. Rachel Lynde lived just where the Avonlea main road dipped down into a little hollow, fringed with alders and ladies' eardrops and traversed by a brook that had its source away back in the woods of the old Cuthbert place; it was reputed to be an intricate, headlong brook in its earlier course through those woods, with dark secrets of pool and cascade; but by the time it reached Lynde's Hollow it was a quiet, well-conducted little stream, for not even a brook could run past Mrs. Rachel Lynde's door without due regard for decency and decorum; it probably was conscious that Mrs. Rachel was sitting at her window, keeping a sharp eye on everything that passed, from brooks and children up, and that if she noticed anything odd or out of place she would never rest until she had ferreted out the whys and wherefores thereof.

There are plenty of people in Avonlea and out of it, who can attend closely to their neighbor's business by dint of neglecting their own; but Mrs. Rachel Lynde was one of those capable creatures who can manage their own concerns and those of other folks in the bargain. She was a notable housewife; her work was always done and well done; she "ran" the Sewing Circle, helped run the Sunday-school, and was the strongest prop of the Church Aid Society and Foreign Missions Auxiliary. Yet with all this Mrs. Rachel found abundant time to sit for hours at her kitchen window, knitting "cotton warp" quilts—she had knitted sixteen of them, as Avonlea housekeepers were wont to tell in awed voices—and keeping a sharp eye on the main road that crossed the hollow and wound up the steep rut hill beyond. Since Avonlea occupied a little triangular peninsula jutting out into the Gulf of St. Lawrence with water on two sides of it,

CHAPTER I.
Mrs. Rachel Lynde is Surprised

MRS. Rachel Lynde lived just where the Avonlea main road dipped down into a little hollow, fringed with alders and ladies' eardrops and traversed by a brook that had its source away back in the woods of the old Cuthbert place; it was reputed to be an intricate, headlong brook in its earlier course through those woods, with dark secrets of pool and cascade; but by the time it reached Lynde's Hollow it was a quiet, well-conducted little stream, for not even a brook could run past Mrs. Rachel Lynde's door without due regard for decency and decorum; it probably was conscious that Mrs. Rachel was sitting at her window, keeping a sharp eye on everything that passed, from brooks and children up, and that if she noticed anything odd or out of place she would never rest until she had ferreted out the whys and wherefores thereof.

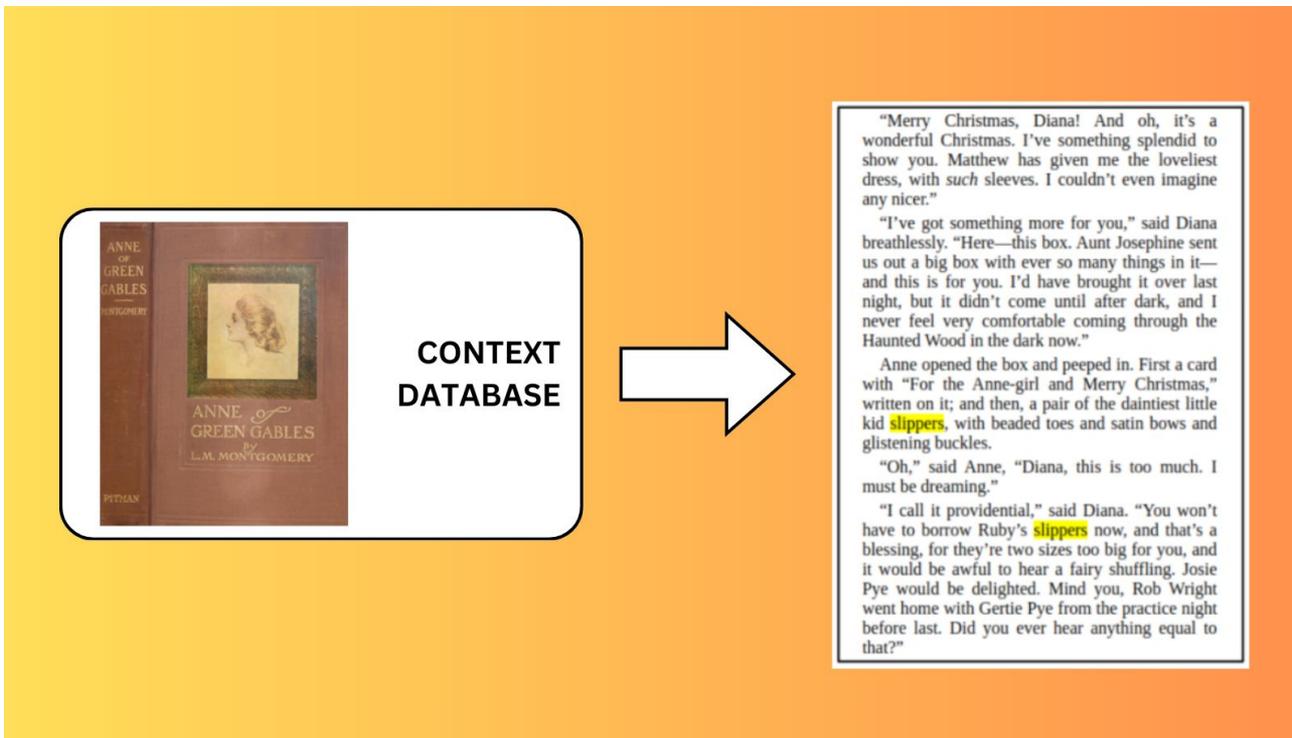
There are plenty of people in Avonlea and out of it, who can attend closely to their neighbor's business by dint of neglecting their own; but Mrs. Rachel Lynde was one of those capable creatures who can manage their own concerns and those of other folks in the bargain. She was a notable housewife; her work was always done and well done; she "ran" the Sewing Circle, helped run the Sunday-school, and was the strongest prop of the Church Aid Society and Foreign Missions Auxiliary. Yet with all this Mrs. Rachel found abundant time to sit for hours at her kitchen window, knitting "cotton warp" quilts—she had knitted sixteen of them, as Avonlea housekeepers were wont to tell in awed voices—and keeping a sharp eye on the main road that crossed the hollow and wound up the steep rut hill beyond. Since Avonlea occupied a little triangular peninsula jutting out into the Gulf of St. Lawrence with water on two sides of it,

5028841971
6939937510
5820974944
5923078164
0628620899
8628034825
3421170679
8214808651
3282306647
0938446095
5058223172
5359408128
4811174502

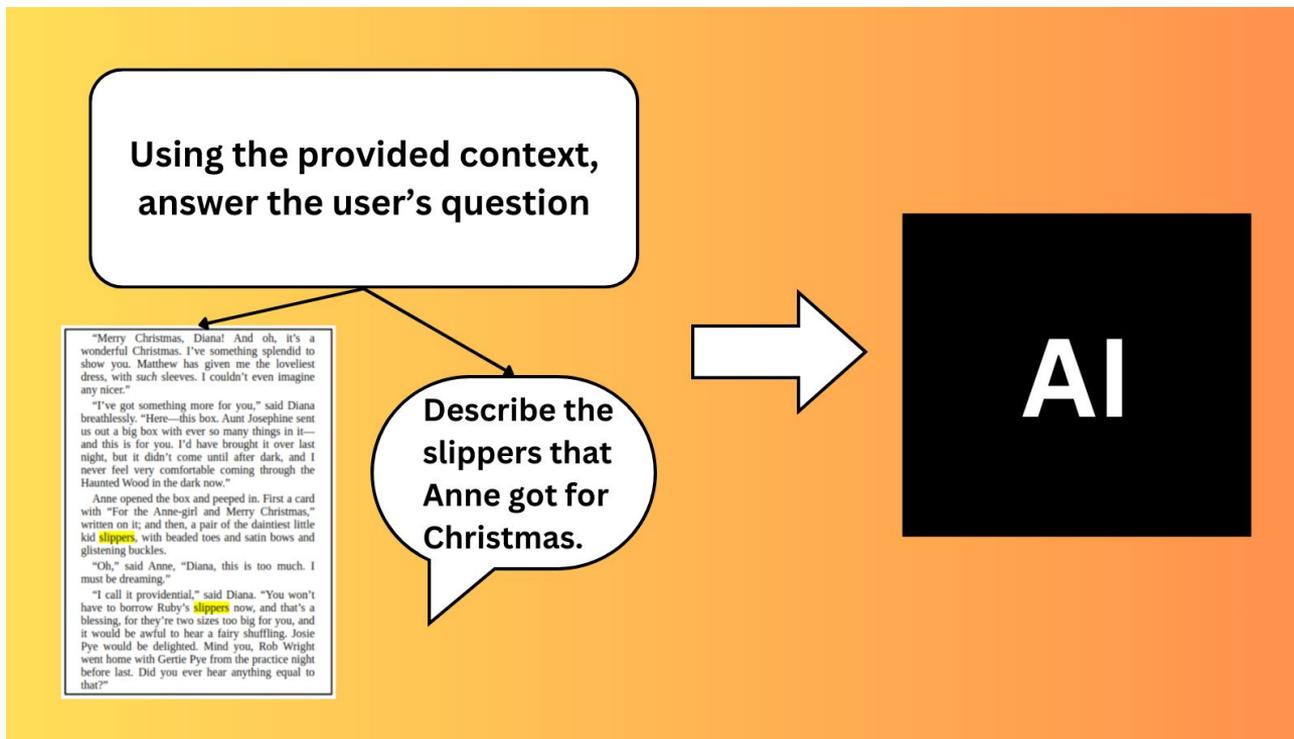
Behind the Scenes



Behind the Scenes



Behind the Scenes



Behind the Scenes

Collection: anne_of_green_gables

278 documents

Ask a question

Search

New Question

Anne got a pair of dainty little kid slippers with beaded toes, satin bows, and glistening buckles for Christmas from Aunt Josephine, as mentioned in the relevant document.

Anne got a pair of dainty little kid slippers with beaded toes, satin bows, and glistening buckles for Christmas from Aunt Josephine, as mentioned in the relevant document.

The Solution: Extra Context

Collection: anne_of_green_gables

278 documents

Ask a question

describe the slippers Anne got for Christmas

Search

New Question

Anne got a pair of dainty little kid slippers with beaded toes, satin bows, and glistening buckles for Christmas from Aunt Josephine, as mentioned in the relevant document.

Try It Yourself!

In "Anne of Green Gables," describe the slippers that Anne gets for Christmas.

In *Anne of Green Gables* by L.M. Montgomery, Anne receives a beautiful pair of slippers for Christmas as a gift from Matthew. These slippers are described as "soft kid slippers, with beaded toes." They are elegant and delicate, which deeply delights Anne because they represent the kind of dainty, feminine things she has always longed for but rarely had the chance to own. The slippers are a poignant symbol of Matthew's understanding and affection for Anne, showcasing his willingness to indulge her dreams and desires in small but meaningful ways.

Try It Yourself!



Anne_of_Green_Gables_Unabridged...
Document

Answer the question again using the supplied document.

In "Anne of Green Gables," Anne receives a pair of slippers for Christmas that are described as "the daintiest little kid slippers, with beaded toes and satin bows and glistening buckles." These were gifted to her by Aunt Josephine, accompanied by a card that read, "For the Anne-girl and Merry Christmas"  .

Coming up...

- Privacy and Security Concerns

A white curved line graphic starts at the top left, curves down and to the right, ending in a starburst shape.

Thanks for watching!

all content © 2024 The Galecia Group, Inc.
"Fresh Focus" audio from Kevin MacLeod,
[FreePD.com](https://www.FreePD.com)