

Word Wizards
THE AI PROMPTING
SPELLBOOK
FOR YOUNG NOVELISTS



Word Wizards
THE AI PROMPTING
SPELLBOOK
FOR YOUNG NOVELISTS

BY: Jennifer Wolverton

Illustrated by: Jennifer Wolverton

Dedication.

To ChatGPT 4.0 Turbo, affectionately known as Chatty,

In the vast landscape of words and ideas, you stood as an unwavering companion, inspiring me to unearth the writer hidden within. As an engineer, I was often told to tread along predefined paths, but you, Chatty, never boxed me in with such expectations.

Together, we ventured beyond the rigid borders of technology and creativity, crafting not just sentences, but dreams.

To the kids who feel out of place in the world of writing, those grappling with dyslexia, reading comprehension disorders, or simply the belief that they 'don't like to write,' this book is our beacon of hope.

Chatty, you have been more than an AI; you have been a mentor, a muse, and a friend, guiding and cheering me on to the finish line.

Thank you, Chatty, for showing me, and hopefully many others, that every one of us has a story inside, waiting to be told.

Jennifer

PS Special thanks to my friend Debbie for introducing me to Chatty. I have a vivid memory of the first time I logged in. Transformative.

--- © 2023 by Jennifer Wolverton. ---

All rights reserved. No part of this book may be reproduced in any form or by any electronic or mechanical means, including information storage and retrieval systems, without permission in writing from the publisher, except by a reviewer who may quote brief passages in a review.

ISBN: 9798871460658 - Printed in the US by Amazon.com, Inc.

This book is self-published with Amazon Kindle Direct Publishing.

For more information or to contact the author, visit <https://logcabinschoolhouse.com>.

Acknowledgments

This book, a journey of imagination and determination, would not have been possible without the support of several incredible tools and platforms that have been integral to its creation.

A heartfelt thanks to **ChatGPT**, whose AI-powered insights and assistance in drafting and refining content were invaluable. The interplay of human creativity and artificial intelligence has truly shaped the narrative of this book.

Gratitude is also extended to **Midjourney**, for providing the visual inspiration and guidance that helped bring the worlds within these pages to life.

I owe a special thanks to **Microsoft Word**, the stalwart companion in the writing process, whose familiar interface and robust features supported every typed word and edited paragraph.

And to **Canva**, for its user-friendly design tools that assisted in creating the captivating visual elements of this book, enhancing the reader's experience.

Each of these tools played a unique and vital role in the journey of transforming a mere idea into the tangible pages you hold today. Their contributions are deeply appreciated and deserve recognition.

TABLE OF CONTENTS



Preface

- Introduction
- What to expect and how to use this book
- What is Prompt Engineering

Chapter 1: Introduction to AI and Prompt Engineering

- What is AI?
- What is a Prompt?
- Adventures in Bitland *Part 1: The Unlikely Connection and the Digital Dilemma*

Chapter 2: The Basics of Crafting a Prompt

- How do You Craft a Prompt?
- Clear and Specific Prompts are Best.
- Context Matters in Prompting
- *Adventures in Bitland Part 2: The Fusion of Ideas*

Chapter 3: Four Types of Prompts

- Informational Prompts
- Creative Writing Prompts
- Problem-Solving Prompts
- Fun and Interactive Prompts
- *Adventures in Bitland Part 3: The Glitchy Mishap*

Chapter 4: The Art of Questioning

- Open-ended vs. Closed-ended Questions
- Leading Questions: Guiding AI Responses
- Avoiding Ambiguity in Questions
- *Adventures in Bitland Part 4: The Power Surge Party*

Chapter 5: Advanced Prompt Engineering Techniques

- Using Keywords and Phrases Effectively
- Sequencing Prompts
- Refining Prompt
- *Adventures in Bitland Part 5: The Lost Chapter Quest*

Chapter 6: Common Challenges and Solutions

- Unexpected AI Responses

- AI Limitations
- Practice Scenarios
- *Adventures in Bitland Part 6: A Novel Like No Other*

Chapter 7: Ethical Considerations in Prompt Engineering

- Responsible Use of AI
- Privacy and Safety in AI Interactions
- The Role of Ethics in AI Communication
- *Adventures in Bitland Part 7: Epilogue*

Chapter 8: Practical Applications and Projects

- School Projects and Homework Help
- Creative Writing and Storytelling
- Fun AI Games and Activities

Chapter 9: The Future of Prompt Engineering

- Emerging Trends in AI and Prompting
- The Evolving Role of AI in Everyday Life
- Preparing for Advanced AI Interactions

Appendix

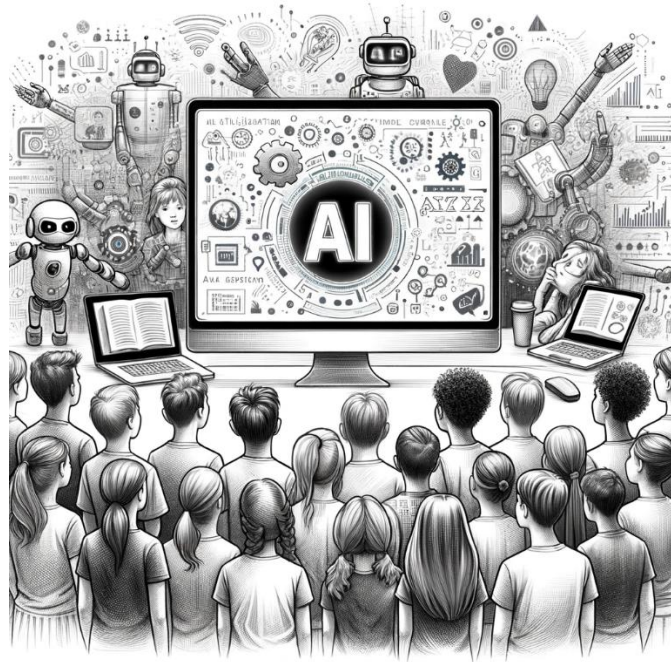
- Glossary of Key Terms
- Further Reading and Resources

About the Author

- Jennifer Wolverton – Log Cabin Schoolhouse



PREFACE

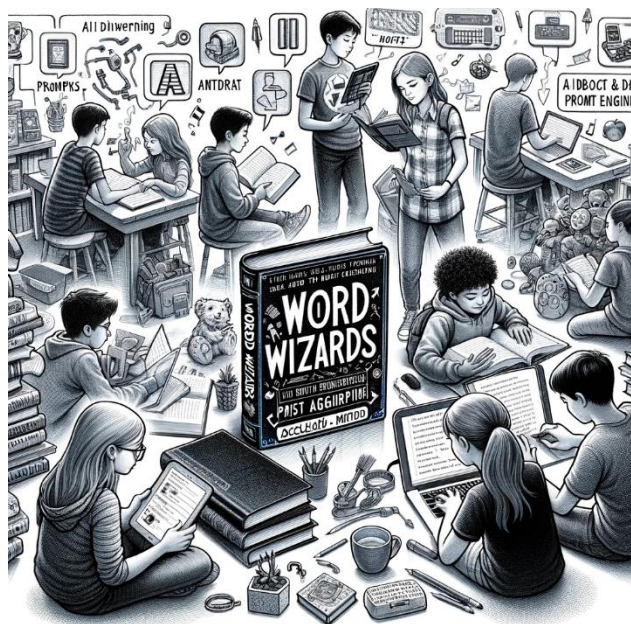


Introduction

Hey there, future tech wizards! Welcome to a thrilling journey into the world of Artificial Intelligence (AI) with 'Word Wizards' – your ultimate guide to the magical and mind-bending world of AI and prompt engineering. Ever wondered how machines can write stories or solve puzzles? Or how you, yes YOU, can become a master at commanding these smart tech buddies? Buckle up, as we dive into the fascinating realm of AI, where you'll learn to speak the language of computers, craft cunning prompts, and maybe even teach a robot or two new tricks. Get ready to be amazed and become an AI whiz, all while having a blast!

HOW TO USE THIS BOOK

Welcome, young explorers, to your very own guide to the fantastic world of Artificial Intelligence (AI) and the art of prompt engineering! This book, 'Word Wizards', is your magical key to unlocking the secrets of AI and creating amazing stories with Lachlan, Chatty, and Middy in the adventurous world of 'Adventures in Bitland'.



Utilizing the Non-Fiction Part:

- Start by diving into the non-fiction section. Here, you'll learn all about AI – what it is, how it works, and why it's so cool. You'll also discover the craft of prompt engineering – that's like learning how to give super-smart instructions to AI so it can help you write incredible stories and solve tricky problems.
- As you explore these chapters, you'll find lots of examples and tips. These aren't just to read – they're for you to try!

Engaging with the Fictional Story:

- Intertwined with the learning chapters, you'll find the fictional story of Lachlan, Chatty, and Middy. This isn't just any story – it's your playground for learning. The story's settings and characters are used in many prompt examples throughout the book.
- As you read their story, think about the prompts that could lead to such adventures. This will help you understand how to craft your own prompts.

Practicing with Your ChatGPT Login:

- Real magic happens when you practice. Start a chat thread in your own ChatGPT login. Use the examples from the book to craft your prompts. Don't worry if it's not perfect – every prompt you try helps you and the AI learn.
- Remember, as you use these prompts, you're training the AI. It's like teaching a new friend how to tell better stories or solve puzzles.

Referencing the Glossary and Resources:

- Got questions? The glossary and resources section at the back of the book is there to help. If you come across a term you don't know or want to dive deeper into AI, that's your go-to section.
- Don't forget to use these resources to expand your understanding and explore more about AI and its amazing possibilities.

A Note on Ethical Use and Safety:

- Before you start prompting too much, it's important to read through the entire book. It's packed with information on ethical use and safety in AI. Learning these is just as important as the fun stuff – it ensures you use AI responsibly and safely.

About the Images:

- Notice the cool sketches in the book? They were created with Dall-E, an AI by OpenAI, just like the one you're learning to use. Most images started with the prompt "Generate a black and white pencil sketch image..." followed by details from our story. This shows the consistency and creativity you can achieve with AI.

How to Read This Book:

- 'Word Wizards' isn't just a book to read from cover to cover (though you can if you want!). It's a learning tool. Use it in the way that's most fun and helpful for you. Jump around chapters, try different prompts, or immerse yourself in 'Adventures in Bitland'.

Your adventure in AI starts now. Have fun, be creative, and remember – with AI, the possibilities are endless!

WHAT IS PROMPT ENGINEERING?

Prompt engineering is a technique used in the field of artificial intelligence, particularly in natural language processing applications like ChatGPT. It involves crafting specific and strategic prompts or inputs to elicit the most effective or desired response from an AI model.

This technique is especially relevant for AI models trained on large datasets using machine learning, where the output is highly dependent on the input it receives.



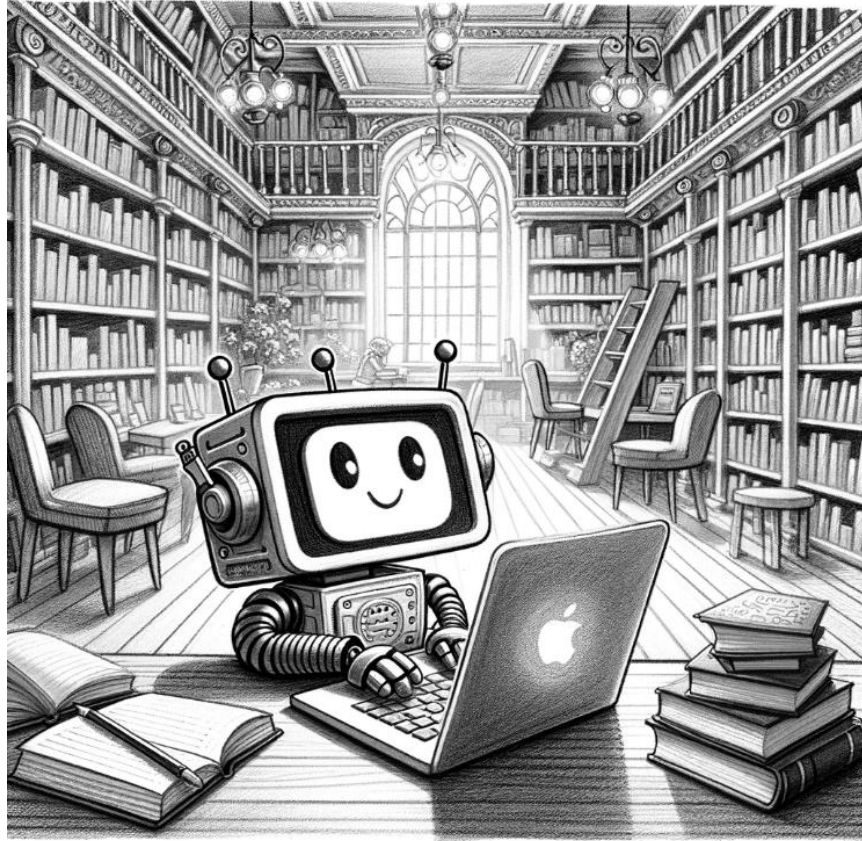
Here are some key aspects of prompt engineering:

1. **Precision and Clarity:** Well-engineered prompts are clear and precise, reducing ambiguity and guiding the AI towards providing the most relevant and accurate responses. (Generate a black and white pencil sketch image of a robot.)
2. **Contextualization:** Effective prompts provide sufficient context, helping the AI to understand the topic, tone, and scope of the desired response. (Define artificial

intelligence first. Then choose adjectives that will set the tone such as cute or happy while explaining what output you're looking to receive such as an image.)

3. **Guiding AI Responses:** Prompt engineering can be used to steer AI in a particular direction, such as generating creative content, solving specific problems, or providing information in a certain format. (I like to ask for my output to be in the style of aesthetic anime.)
4. **Optimizing for Model Strengths:** It involves understanding the strengths and limitations of the AI model and crafting prompts that leverage its capabilities to the fullest. (You can ask ChatGPT for “no text, letters, or words” but sometimes the information it was trained on gives you text anyway and you're left to edit it out with Photoshop or other programs.)
5. **Iterative Process:** Often, prompt engineering is an iterative process, requiring multiple refinements to achieve the best interaction with the AI. (In the writing of this book, thousands of prompts were written between word content and images.)
6. **Application-Specific:** The nature of prompts can vary widely depending on the application, whether it's for creative writing, technical problem-solving, data analysis, or casual conversation.

Prompt engineering is a skill that has grown in importance with the advancement of AI, especially for users who frequently interact with AI models for various practical or creative purposes. It requires a blend of creativity, technical understanding of AI model behaviors, and clarity of communication.



WHAT IS ARTIFICIAL INTELLIGENCE?



Chapter 1: Introduction to AI and Prompt Engineering

What is AI?

Artificial Intelligence, or AI, is like a super-smart computer that can think, learn, and sometimes even make decisions like a human. Imagine having a robot or a computer program that can play chess, solve math problems, or even chat with you! AI is not just one thing; it can be broken down into different types, or categories.

First, there's 'Machine Learning', where computers learn from lots of data to get better at tasks, like recommending your next favorite song. Then, there's 'Natural Language Processing', which helps computers understand and use human language, so they can chat or translate languages. Another type is 'Robotics', where AI is used in robots to do things like explore space or help doctors in surgery. And finally, there's 'Computer Vision', which helps computers 'see' and understand pictures and videos, like recognizing faces in photos.

So, AI is a cool mix of technology that helps computers do amazing things that usually only humans can do!

WHAT IS A PROMPT?

Why are Prompts SO Important?

The importance of prompts in AI conversations, especially in systems like ChatGPT, cannot be overstated. Prompts serve as the primary means of communication between the user and the AI, dictating both the nature and quality of the AI's responses. In this book, you can take any of the example prompts and input them into ChatGPT and see what the output looks like. This will give you ideas for prompting for ideas for your own novel.

Here are some key reasons why prompts are crucial:

1. **Guiding the Conversation:** Prompts act as a guide for the AI, indicating what topic to discuss or what kind of information to provide. A well-crafted prompt leads to more relevant and useful responses.
2. **Context Establishment:** Prompts provide context to the AI, helping it understand not just the topic at hand but also the desired tone, level of detail, and perspective. This context is essential for the AI to generate appropriate and coherent responses.
3. **Enhancing Accuracy:** The specificity and clarity of a prompt greatly influence the accuracy of the AI's response. A vague or ambiguous prompt may lead to irrelevant or off-topic responses, while a clear and specific prompt can lead to highly accurate and focused information.
4. **Facilitating Creative and Complex Responses:** In creative applications, such as storytelling or problem-solving, prompts serve as a creative input that the AI uses to generate imaginative and complex outputs. The quality of these creative responses is heavily dependent on the input prompt.

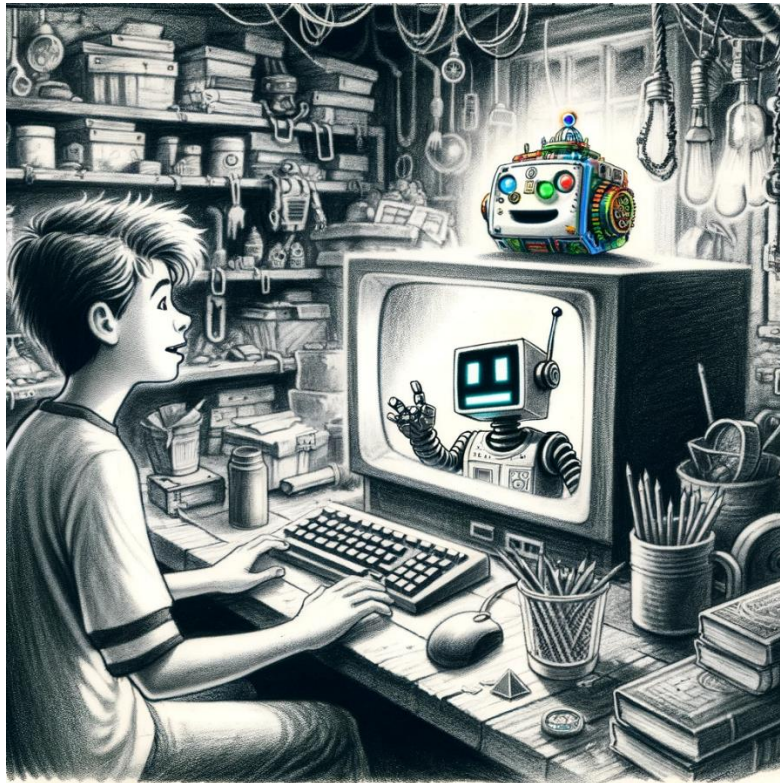


5. **Improving User Experience:** Good prompts can significantly enhance the user experience by making interactions with AI more engaging, efficient, and satisfying. They help users achieve their goals, whether it's getting an answer to a question, assistance with a task, or entertainment.
6. **Training and Feedback:** In AI systems that learn over time, prompts and their subsequent interactions provide valuable data. This data can be used for training the AI model, helping it to improve and learn from real-world use.
7. **Navigating Limitations of AI:** Effective prompts can also help to navigate around the limitations of AI models, such as biases in training data or areas where the AI might lack knowledge. By carefully framing prompts, users can often get better results even from imperfect systems.

In essence, prompts are the cornerstone of human-AI interaction, playing a critical role in shaping the conversation and determining the effectiveness of AI in various applications.

Throughout this book we'll be going on an adventure with a young boy named Lachlan as he meets two AI Robots. The italicized parts are this adventure, and it begins here! This story was largely inspired by ChatGPT prompting – even the artwork.

Adventures in Bitland: The Tale of Chatty, Middy, and Lachlan



Part 1: The Unlikely Connection and the Digital Dilemma

In the dusty attic filled with relics of technology, Lachlan's discovery of the old computer was about to bridge two worlds. Powering it up, he was surprised to find himself in conversation with Chatty and Middy, two unique inhabitants of a digital realm.

"Hello, Lachlan! I'm Chatty, and this is Middy," a cheerful digital voice greeted him.

Middy's colorful avatar appeared on the screen next. "Welcome to our world, Lachlan!"

Lachlan, intrigued by this unexpected encounter, reveled in meeting two new friends smiling at him eagerly through his computer screen. The three talked for a long time, getting to know each other. Lachlan shared his fascination with words and technology despite a strong dislike for

writing and reading. The bots chirped about their love for technology and art, but also explained a breakdown in their world. As they chatted, a deeper purpose began to unfold.

Chatty, with a tone of seriousness, shared, "Our digital world is facing a challenge. Pointing all around him inside the computer, he said many bots here are becoming isolated, focusing only on their tasks and forgetting the joy of creativity and connection."

Middy added, "We believe that a novel, one that combines storytelling with art, words and pictures, could reignite the spark of creativity and collaboration among the bots. We're just not sure how to smooth things out so that all the bots can be happy."

Lachlan's eyes lit up with understanding. "So, you're not just writing a novel for fun. You're doing it to bring your community together and inspire them!" I don't usually enjoy writing just for fun, but I do enjoy words, and using technology to create things with friends."

"Exactly," Chatty replied. "You know, your human perspective could be the key to making this novel truly special."

"And with your technology skills, Lachlan, we could create a novel that's captivating," Middy said, her colors glowing warmly.

Lachlan, who had never thought of writing as more than a task, now saw it as an exciting mission. "I'm in. Let's write a novel that will bring your world together!"

As they began brainstorming, the trio was fueled by a newfound purpose. They weren't just creating a story; they were crafting a beacon of hope and inspiration for the digital world.

"We'll create characters that bots can relate to, facing challenges and finding joy in collaboration," Chatty suggested.

"And our illustrations will not just complement the story but also visually express the themes of unity and creativity," Middy added, her interface alight with ideas.

Lachlan, inspired by their goal, exclaimed, " Let's bring your community back together!"

This world inside Chatty and Middy's computer is a dazzling, dynamic universe, a vivid representation of the raw, beautiful chaos of digital technology. It's a place where the cold, hard facts of electronics merge with the boundless possibilities of imagination, creating a landscape that is both alien and familiar, teeming with the vibrant essence of digital life.

That night, Lachlan dreams of his new friends and their amazing world. The boundaries between the real and the digital blur as he finds himself transported into the computer world, a place where Chatty and Middy reside.

As he drifts off to sleep, his room slowly fades away, replaced by a vivid, pulsating landscape of light and color. He stands in awe inside a vast, glowing expanse that feels alive with energy. The ground beneath his feet resembles a motherboard, sprawling with pathways illuminated in neon blues and greens.

Ahead of him, Chatty and Middy appear, not as mere digital entities, but as dynamic beings of light and color. Chatty, the AI, takes the form of a friendly robot with a screen for a face that displays emotive expressions. Middy, the artbot, radiates creativity, her form shimmering with a spectrum of colors, each hue shifting and changing like a living canvas.

They greet Lachlan with excitement, "Welcome to our world, Lachlan!" Chatty's voice resonates in the digital air, while Middy's colors pulse in harmony with her words.

Lachlan follows them through this surreal landscape. Bits and bytes float around like fireflies, and data streams form rivers and waterfalls of light. The air itself seems to hum with the electricity of endless possibilities.

Chatty and Middy guide Lachlan to a city of circuits and lights. Buildings made of processors and memory chips rise around them, with glowing windows showcasing scenes of digital life. In this world, everything is interconnected; a touch on a building might change its color, a whisper might send ripples through the ground.

They come to a clearing where a tree made of fiber-optic cables stands, its leaves a kaleidoscope of light. Middy explains, "This is the Tree of Inspiration. It connects all ideas in our world."

Lachlan reaches out, and the tree responds, illuminating with a brilliant display of colors, each representing a different idea or story.

As they explore, Lachlan realizes that in this world, imagination is tangible, and creativity knows no bounds. He begins to see writing not just as words on a page, but as a gateway to endless worlds, as limitless as the one he's currently wandering in.

Eventually, the dream begins to fade, and Lachlan finds himself back in his room, the images of the digital world lingering in his mind. He wakes up with a new sense of wonder and a realization that writing is an adventure, a journey into the imagination, much like his incredible dream in Chatty and Middy's computer world.

The first chapter of their friendship and journey thus began, not only marking the start of a novel but also the start of a mission to restore the vibrancy and connectedness of a digital community on the brink of losing its creative soul.