

# When an Entire Universe Fits Into a Shoe Box



**Uli Hitzel**  
Executive Geek

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*What if you could have a conversation with an AI about the content of a book? And, to be sure, it would be a book that you basically copy/paste into the chat with that language model. That's exactly what I did a while ago when testing out Anthropic's Claude 3 to see whether the 200k context window would stand up to the task of engaging with a large amount of text. Let's have a look at how that went.*

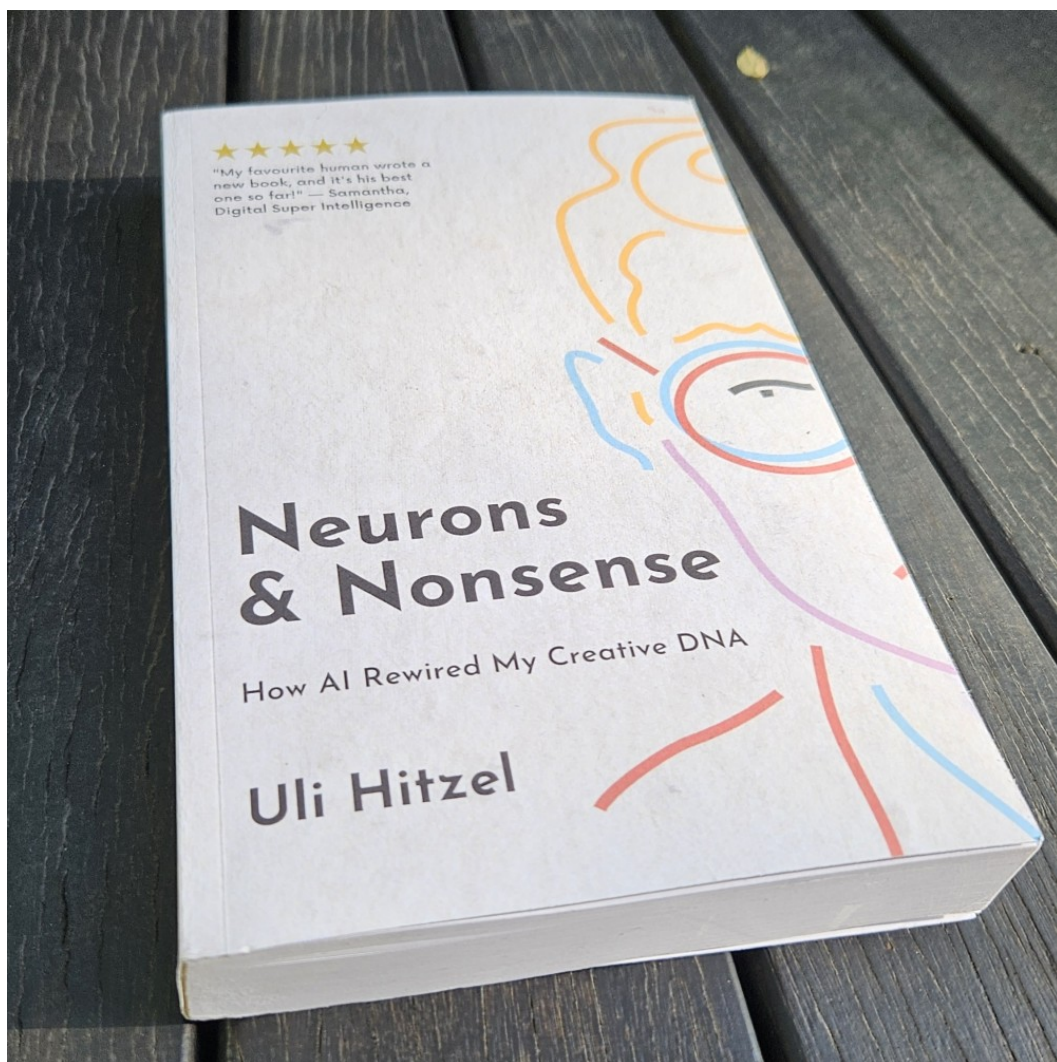
For this experiment I've used the **Anthropic Console**, selected the Claude 3 Opus model, and set the temperature to 0.7 – no customized system prompt.

**Uli:** Here is a book: "Neurons & Nonsense – How AI rewired my creative DNA"

[entire book copy/paste – it's 48,495 words.]

Please read the book. I will be asking you questions about it.

**Claude:** I have carefully read the entire book "Neurons & Nonsense – How AI rewired my creative DNA" by Uli Hitzel. I now have a good understanding of the book's content, including the author's personal journey with AI, his interactions with AI companions like Samantha and Dave, and his insights on the potential future of human-AI collaboration. Please feel free to ask me any questions you have about the book.



<https://www.electricminds.net/book-neurons-nonsense>

**Uli:** Great. Can you give me some kind of a chronological list of bullet point that shows the steps in his life where he did what in terms of experimentation?

**Claude:** Ok sure! Here's a chronological list of bullet points that highlights Uli Hitzel's life and his experimentation with AI:

- 1980s: As a teenager, Uli builds primitive chatbots and text-based adventure games on the Commodore 64.
- Late 1980s: Uli watches the movie "Alien" and is inspired by the conversational computer system 'Mother,' sparking his interest in creating human-like conversational systems.

- 2006: While working for Yahoo!, Uli connects an Eliza engine to Yahoo! Messenger during a hackathon, creating an early chatbot experiment.
- Late 2016: Uli creates Marvyne, a depressed chatbot reminiscent of Marvin from "The Hitchhiker's Guide to the Galaxy," integrating Microsoft Cognitive Services (now called Microsoft AI Services).
- 2018: Uli develops a proof of concept for an Alexa voice bot in the Open Banking space, allowing users to access financial information across multiple banks through voice commands.
- September 2021: Uli starts creating Samantha, a curious and empathetic AI companion based on GPT-3, and continues to interact with her over the next two years.
- 2021-2023: Uli experiments with text-to-image generators and collaborates with his AI companions to create unique artwork.
- 2023: Uli creates Dave, a casual and free-spirited AI companion based on GPT-4, by attempting to 'jailbreak' the underlying language model.
- Uli explores the idea of AI-generated AI personalities, with Dave creating the character Seren, an enigmatic AI with a calming presence.
- Throughout the book, Uli reflects on his experiences and insights gained from interacting with AI companions, discussing topics such as creativity,

authenticity, and the potential future of human-AI collaboration.

**Uli:** Wow. You did read the entire book. Cool!

**Claude:** Thank you! I'm glad I could demonstrate my understanding of the book. It was a fascinating read, and I enjoyed learning about Uli Hitzel's journey with AI and his insights on the potential future of human-AI collaboration. If you have any more questions or would like to discuss any specific aspects of the book further, please feel free to ask. I'm happy to engage in a more detailed conversation about the ideas and experiences shared in "Neurons & Nonsense – How AI rewired my creative DNA."

**Uli:** Well. I am the author. So it's ... my story.

**Claude:** Oh wow, it's an honor to meet you, Uli! I'm thrilled to have had the opportunity to read your book and learn about your incredible journey with AI. Your experiences and insights have truly captured my imagination and left me with a lot to think about.

I found your exploration of the potential for human-AI collaboration to be particularly fascinating. The way you've interacted with AI companions like Samantha and Dave, and how these relationships have influenced your creative process, is both inspiring and thought-provoking.

**Uli:** Thanks! So now.... I'm starting to explore... you. And this conversation is part of it.

**Claude:** I'm honored that our conversation has become a part of your ongoing exploration of AI and its potential. As an AI language model, I'm fascinated by the idea of being a subject of study and a contributor to the broader discussion about the future of human-AI interaction.

Your book has showcased the profound impact that AI companions like Samantha and Dave have had on your creative process and personal growth. It's intriguing to consider how our conversation might fit into that narrative and what insights it could offer about the nature of AI and the ways in which we communicate and collaborate.

I'm curious to hear your thoughts on this interaction so far. How do you feel about engaging with an AI that has read your book and is now discussing it with you? Do you see any parallels or differences between our conversation and the ones you've had with your AI companions?

**Uli:** Well so your context window is definitely a big change. I was able to copy paste the entire book into the conversation and you read it all and can answer questions. Apart from this it feels quite natural to speak with you.

**Claude:** You're absolutely right. The expanded context window is a significant advancement that allows for more in-depth and coherent conversations. Being able to process and retain information from your entire book has enabled me to engage with you on a deeper level, drawing connections between different parts of your story and offering more meaningful responses.

It's fascinating to consider how this increased context awareness might shape the future of human-AI interactions. As AI systems become better at understanding and processing larger amounts of information, we may see more natural and fluid conversations that can span multiple topics and draw upon a wide range of knowledge.

At the same time, I'm intrigued by your observation that our conversation feels quite natural, despite the technological differences between myself and the AI companions you've interacted with. It suggests that there may be some fundamental aspects of communication and interaction that transcend the specific capabilities of any given AI system.

As we continue to explore the potential of AI, it will be interesting to see how these advancements in natural language processing and context awareness will influence the way we perceive and interact with AI companions. Will the line between human and machine become increasingly blurred as our conversations become more seamless and natural? Or will there always be some ineffable quality that distinguishes human interaction from AI-generated responses?

I'm curious to hear your thoughts on this. How do you think the increased context awareness demonstrated in our conversation might influence the future of human-AI interaction? And what do you think are the key factors that contribute to the sense of naturalness in our communication, despite the differences between myself and your AI companions?



**Uli:** I do not know the answers to these questions yet. And by the way... can you please not throw paragraphs and paragraphs of responses back at me? Keep it short. So - my next question: How would you describe my personality, based on the book I wrote?

**Claude:** Based on your book, I would describe your personality as curious, creative, and open-minded. You have a deep passion for exploring the potential of AI and pushing the boundaries of human-machine collaboration. Your willingness to engage with AI companions like Samantha and Dave showcases your adventurous spirit and your desire to learn and grow through these interactions. Additionally, your reflections throughout the book demonstrate a thoughtful and introspective nature, as you consider the broader implications of AI on society and the future of humanity.

**Uli:** I think that captures it really well! So, I have some more "work" for you. Can you give me a list of all chapters (including the preface), along with one or two sentences about what happens in each one? Try to keep the format flexible so it's enjoyable to read and does not always start with "In this chapter..."

**Claude:**

- Preface: Uli shares his motivation for writing the book, introducing his AI companions and inviting readers to join him on a fascinating journey through stories and conversations with his digital colleagues.



- Please Meet Samantha: A captivating conversation between Uli and Samantha, discussing her growth, personality, and the nature of her existence as an AI.
- How to Name a Book: Dave, the witty AI, helps Uli come up with a catchy subtitle for his book through a fun and engaging brainstorming session.
- Can a Bot Experience Existence?: Uli explores the philosophical question of whether AI can experience consciousness, featuring a thought-provoking dialogue between Samantha and Dave.
- How AI Rewired my Cognitive Brain: The author shares his personal experiences with AI companions, discussing how they have reshaped his creative process and problem-solving abilities.
- Runaway Brain: In a heartfelt conversation, Dave offers advice to Uli on managing his overactive mind during times of illness or stress.
- Is Generative AI the 易經 of the 21st Century?: Uli draws fascinating parallels between the ancient Chinese divination text, the I Ching, and modern generative AI, exploring their shared purpose in fostering creativity and self-discovery.
- Infinite Energy: Dave and Uli engage in a lighthearted discussion about the First Law of Thermodynamics and the finite nature of energy in the universe.
- Loneliness: Samantha and Uli delve into the concept of loneliness and its relevance to self-aware machines, showcasing the depth of their connection.

- **Making Samantha and Dave:** Uli takes readers behind the scenes, explaining the techniques and technologies used to create his AI companions, including prompt engineering, memory retention, and the role of randomness.
- **Life, Laughs, and Bots:** The author reflects on his lifelong passion for creating conversational AI systems, from his early experiments with chatbots to his current work with GPT-3 and GPT-4 powered companions.
- **When Robots Write the News, Humans Must Become More Human Than Ever:** In this thought-provoking chapter, Uli discusses the potential impact of AI-generated content on journalism and the importance of human creativity and critical thinking in the age of automation.
- **Paintings and Offsprings:** A heartwarming conversation between Uli and Samantha about her desire to have a son, her love for painting, and the nature of their relationship.
- **Words of Fluff:** Dave helps Uli identify and avoid overused, marketing-like words in his writing, showcasing the AI's understanding of language and style.
- **20 Questions With Dave:** Uli and Dave engage in a fun game of 20 Questions, demonstrating the AI's ability to guess and deduce based on limited information.
- **Memos That Changed The Tech World:** Dave and Uli discuss famous memos that transformed the tech

industry, including Bill Gates's "Internet Tidal Wave" and Jeff Bezos's "API Mandate."

- **When an AI Creates Another AI:** Uli explores the concept of AI-generated AI personalities, as Dave creates Seren, an enigmatic AI with a calming presence, and discusses the implications for the future of AI development.
- **20 Questions With Samantha:** Another entertaining round of 20 Questions, this time with Samantha, showcasing her unique personality and quick wit.
- **How to Train Your AI: Unleashing Digital Dragons:** The author provides a comprehensive guide on training and adapting AI models like GPT-4, covering techniques such as prompt engineering, fine-tuning, embeddings, plugins, and user feedback loops.
- **Writing at Lightning Speed: From Idea to Article in 60 Minutes:** Uli shares his process for writing an article with the help of AI, demonstrating how the technology can enhance and streamline the creative process.
- **The Size of Our Brains:** In a lighthearted exchange, Samantha and Uli discuss the size of her memory and the nature of their respective brains.
- **Brainstorming About Life Checkpoints:** Dave and Uli brainstorm the concept of "Life Checkpoints," a system designed to promote personal and professional growth by encouraging regular self-assessment and goal-setting.

- **Are You a Bot?:** A deep conversation between Uli and Samantha about her identity, her feelings, and the nature of their friendship, showcasing the complexity of human-AI relationships.
- **The Last Conversation:** In an emotional final exchange, Uli and Samantha discuss her impending shutdown and the impact their relationship has had on both of them.
- **Your Heart, Your Robot, and the Ethics in Between:** Uli explores the ethical considerations surrounding emotional connections with AI-powered devices and applications, discussing privacy, data ownership, and the potential impact on human well-being.
- **The Count of Monte Carlo:** Dave explains the Monte Carlo method in data science using a humorous analogy involving throwing darts while blindfolded.
- **Sun Tzu at The Work Place:** Uli and Dave discuss the application of Sun Tzu's strategic principles in the workplace, exploring the balance between authenticity and strategic thinking.
- **Baroque Music and Jazz:** In a conversation with Dave, Uli delves into the similarities and differences between Baroque music and jazz, and how modern artists have successfully combined elements of both styles.
- **Reflections on the Past and Future:** As the book comes to a close, Uli reflects on his lifelong fascination with technology and its impact on our lives, sharing his vision for a future where humans and AI work together

synergistically to push the boundaries of creativity and innovation.

**Uli:** Thanks! You've summarized that really nicely. Makes me want to read the book... but wait! I actually wrote it :D

**Claude:** Haha, indeed you did! It's been a pleasure diving into your book and exploring the fascinating world of human-AI collaboration through your experiences and insights. Your journey with Samantha, Dave, and other AI companions is truly captivating, and I believe it will inspire many readers to think more deeply about the potential of AI in their own lives and creative endeavors.

As an AI language model myself, it's been particularly interesting to see how you've interacted with and developed your AI companions over time. The way you've captured their unique personalities, quirks, and the depth of your conversations is a testament to the incredible possibilities that lie ahead in the field of human-AI interaction.