Has the UX Process of Conversational AI Changed from Before, or not?

June 3, 2023 Asuka Uda Conversation Al section Al Product. Dept. Rakuten Group, Inc.



About Asuka Uda

- UX Designer for conversational AI at Rakuten Group
- Master's degree in User Experience Design
- Same Birthday as HAL9000 from "2001: A Space Odyssey"
- Dog lover including robotic dogs
- Live in Japan



The Evolution of Conversational AI



Early Chatbots



Rule-based Chatbots



Natural Language Understanding Chatbots



Generative AI Chatbots





Early Chatbots

ELIZA

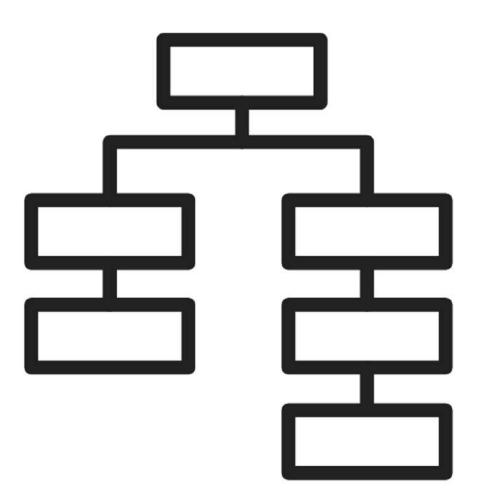
٤đ

References: <u>https://www.youtube.com/watch?v=RMK9AphfLco</u> <u>https://link.springer.com/article/10.1007%2Fs00146-018-0825-9</u> https://web.njit.edu/~ronkowit/eliza.html



Rule-based Chatbots

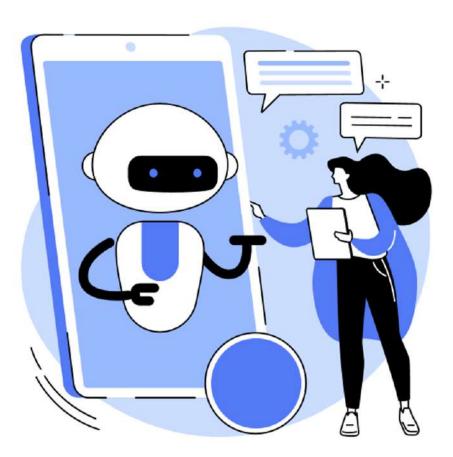






Natural Language Understanding Chatbots





Image(s) created using Canva (https://www.canva.com/)



Generative AI Chatbots



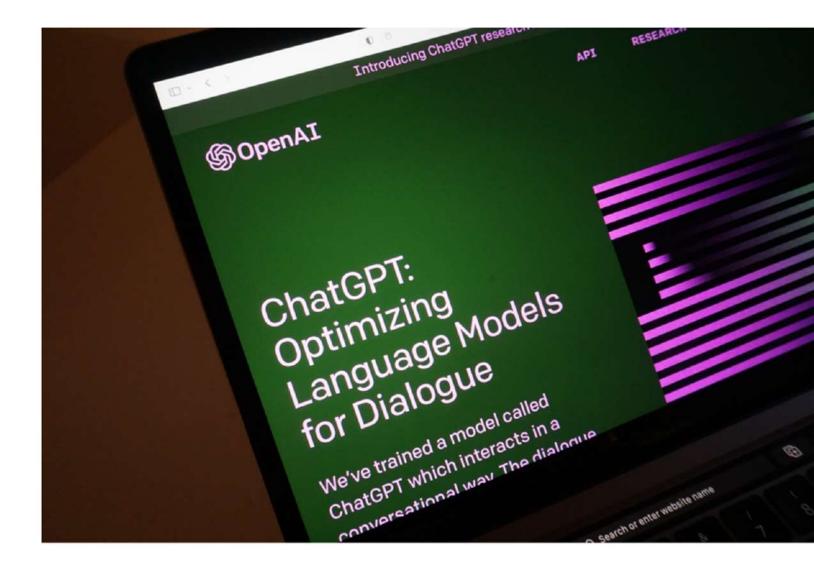


Photo by Rolf van Root on https://unsplash.com/photos/oLthDWAG244? utm_source=unsplash&utm_medium=referral&utm_content=creditCopyT

The 3 elements of good UX for Conversational AI design



Use appropriate technology and provide responses that match the user's intent



Consider conversation design based on the business goals



Make the conversation feel natural

Psychology

The 3 elements of good UX for Conversational AI design



technology and provide responses that match the user's intent Consider conversation design based on the business goals Make the conversation feel natural

Everyone, imagine this scenario

Hello there! I'm CafeBot, your friendly cafe robot. We offer a wide range of menu items such as coffee, tea, juice, smoothies, sandwiches, salads, cakes and more. We can also adjust our menu to accommodate your requests.

We can even help guide you to the perfect table, whether you prefer a cozy table or a spot by the window. Ordering is easy with our tablet terminals, and we offer various payment options including cash, credit card, electronic payment and QR code payments. Additionally, we provide free Wi-Fi for all of our customers. If you have any questions, please feel free to ask us anything! Hey there! Welcome to our cafe. I'm a fancy robot here to help you out. Follow me and I'll show you to your table, my friend!

> Our drink menu has coffee, tea, herbal tea, iced tea, iced coffee, and fresh juice. We also have some special drinks that change depending on the season, so keep an eye out for those! Is there anything that catches your eye?

Hello! Welcome to our cafe. We have a Nordic theme and are particularly known for our coffee and sandwiches. Please follow me and I'll show you to your table.

Thank you.

Would you like me to explain our menu?

Yes, please.

For our drink menu, we have coffee, tea, herbal tea, iced tea, iced coffee, and fresh juice. For food, we offer sandwiches, soups, salads, and desserts.

That's great. I'd like to order a chicken sandwich.

Image(s) created using Canva (https://www.canva.com/)

 \bigcirc

What was the problem?



Bot # 1

- Too much information overload
- Risk of increasing drop-off rate

What was the problem?



Bot # 1

- Too much information overload
- Risk of increasing drop-off rate

What was the problem?



Bot # 2

- The brand and conversational tone may not match
- There is a risk of losing credibility



Bot # 1

- Too much information overload
- Risk of increasing drop-off rate

What was the problem?



Bot # 2

- The brand and conversational tone may not match
- There is a risk of losing credibility

Bot # 3

- Greeting that includes the introduction of the cafe
- · Conversation tone matches the brand
- Progresses the conversation while confirming and leads to conversion



- 1 Be clear on who's talking
- 2 Set clear expectations
- **3** Use the right UI at the right time

- 4 Have a long-term memory
- 5 Offer an escape hatch
- 6 Establish appropriate conversational tone and bot personality

- 1 Be clear on who's talking
- 2 Set clear expectations
- 3 Use the right UI at the right time

- 4 Have a long-term memory
- 5 Offer an escape hatch
- 6 Establish appropriate conversational tone and bot personality

- 1 Be clear on who's talking
- 2 Set clear expectations
- 3 Use the right UI at the right time

- 4 Have a long-term memory
- 5 Offer an escape hatch
- 6 Establish appropriate conversational tone and bot personality

- Be clear on who's talking
- 2 Set clear expectations
- **3** Use the right UI at the right time

- 4 Have a long-term memory
- 5 Offer an escape hatch
- 6 Establish appropriate conversational tone and bot personality

- 1 Be clear on who's talking
- 2 Set clear expectations
- 3 Use the right UI at the right time

- 4 Have a long-term memory
- 5 Offer an escape hatch
- 6 Establish appropriate conversational tone and bot personality

- Be clear on who's talking
- 2 Set clear expectations
- 3 Use the right UI at the right time

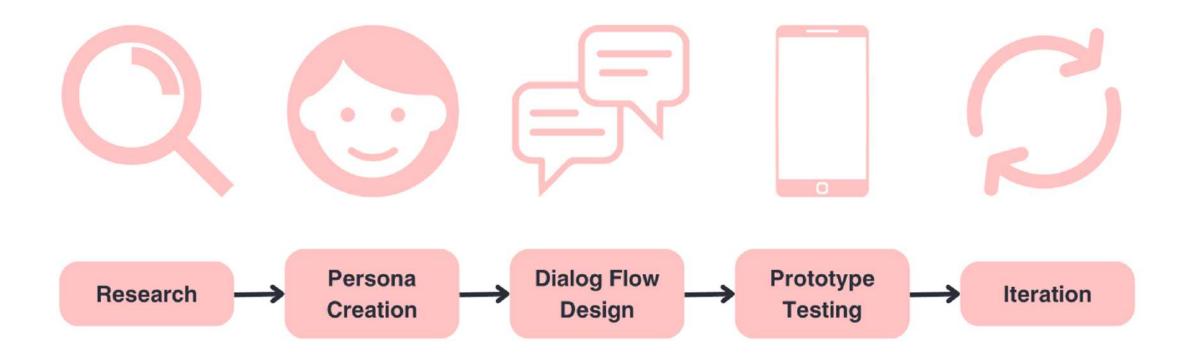
- 4 Have a long-term memory
- **5** Offer an escape hatch
- 6 Establish appropriate conversational tone and bot personality

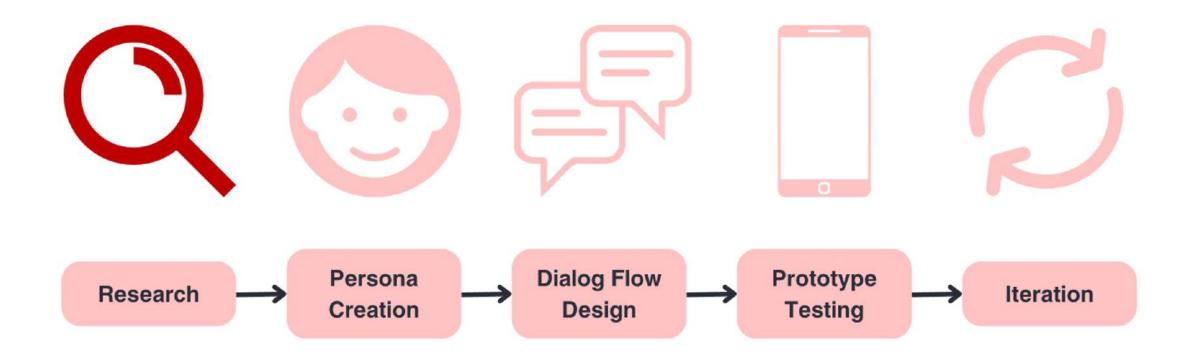
- Be clear on who's talking
- 2 Set clear expectations
- 3 Use the right UI at the right time

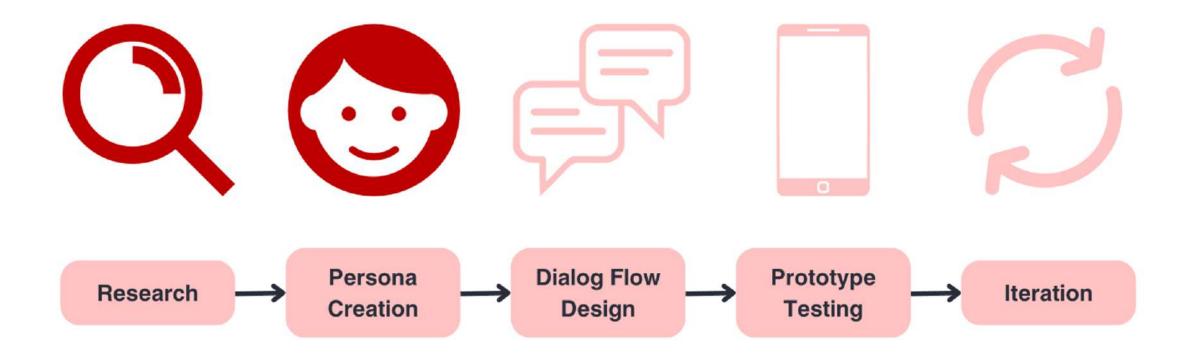
- 4 Have a long-term memory
- 5 Offer an escape hatch

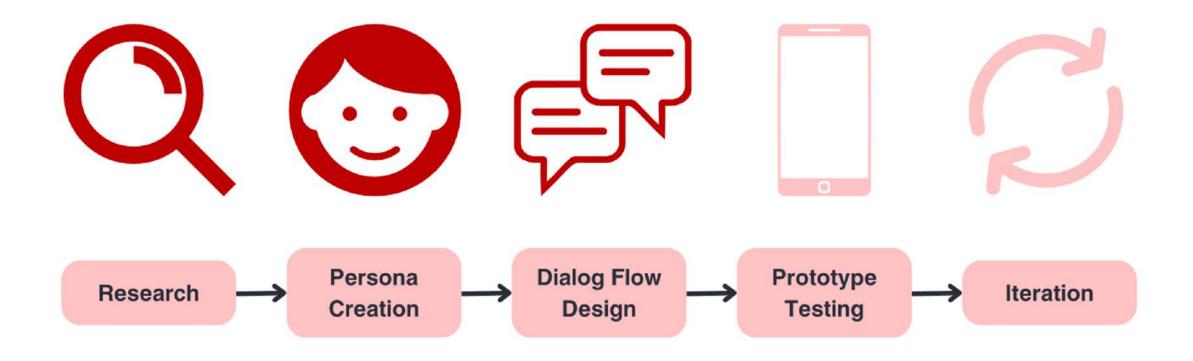
Establish appropriate

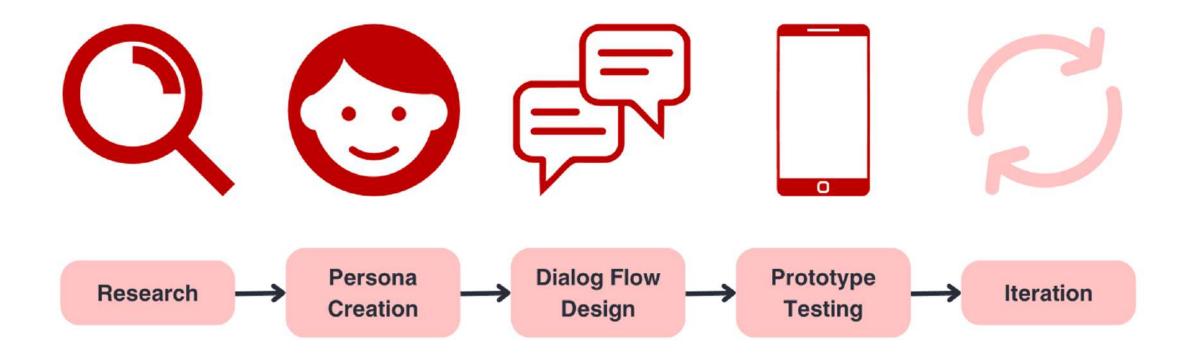
6 conversational tone and bot personality

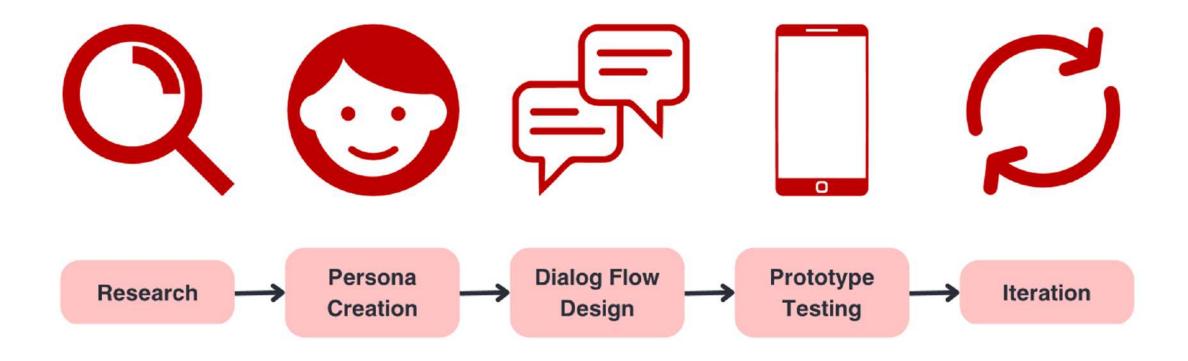












Has new technology changed the **UX** design process?

Has new technology changed the **UX** design process?

Natural Language Understanding technology bot



Has new technology changed the **UX** design process?

Natural Language Understanding technology bot







<u>Source</u>*: TechTarget "<u>What is generative AI? Everything you need to know</u>"

Why is UX design for bots important?





Conversational Al's evolution will further increase the importance of UX design.

