

PROGRAM DEFINITION: At the most basic level, a chat bot is a computer program that simulates and processes human conversation (either written or spoken), allowing humans to interact with digital devices as if they were communicating with a real person.

DESIGN THINKING:

FUNCTIONALITY: A simple chat bot in Python is a basic conversational program that responds to user inputs using predefined rules or patterns. It processes user messages, matches them with available responses, and generates relevant replies, often lacking the complexity of machine learning-based bots. AI-enabled chat bots can enable dynamic and agile conversations as their function relies on bot flows that interact with each other. These chat bots are equipped to provide human-like responses as they can understand the intent and also mine previous conversations easily.

USER INTERFACE: A chat bot user interface (UI) is part of a chat bot that users see and interact with. This can include anything from the text on a screen to the buttons and menus that are used to control a chat bot. The chat bot UI is what allows users to send messages and tell it what they want it to do.

- 1) A good chat bot user interface design has appropriate background colors.
- 2) Any chat bot UI greatly benefits from a graphic hierarchy.
- 3) Rounded corners look better than squared ones.
- 4) You need to set a purpose for your chat bot.
- 5) Graphic effects make your chat bot UI more engaging

NATURAL LANGUAGE PROCESSING: A natural language processing chat bot is a software program that can understand and respond to human speech. Bots powered by NLP allow people to communicate with computers in a way that feels natural and human-like — mimicking person-to-person conversations.

- * Customer service chat bots. Customer service chat bots are available to answer queries 24/7. ...
- * Product recommendations. ...

* Customer sentiment analysis.

Applications of Natural Language Processing



RESPONCES: Create a new project in Python 3.8, import the regex module, create a new python file called "long responses" and import it, and then create an infinite while loop. Create a function called "get response" that splits the user input into an array for testing the response system.

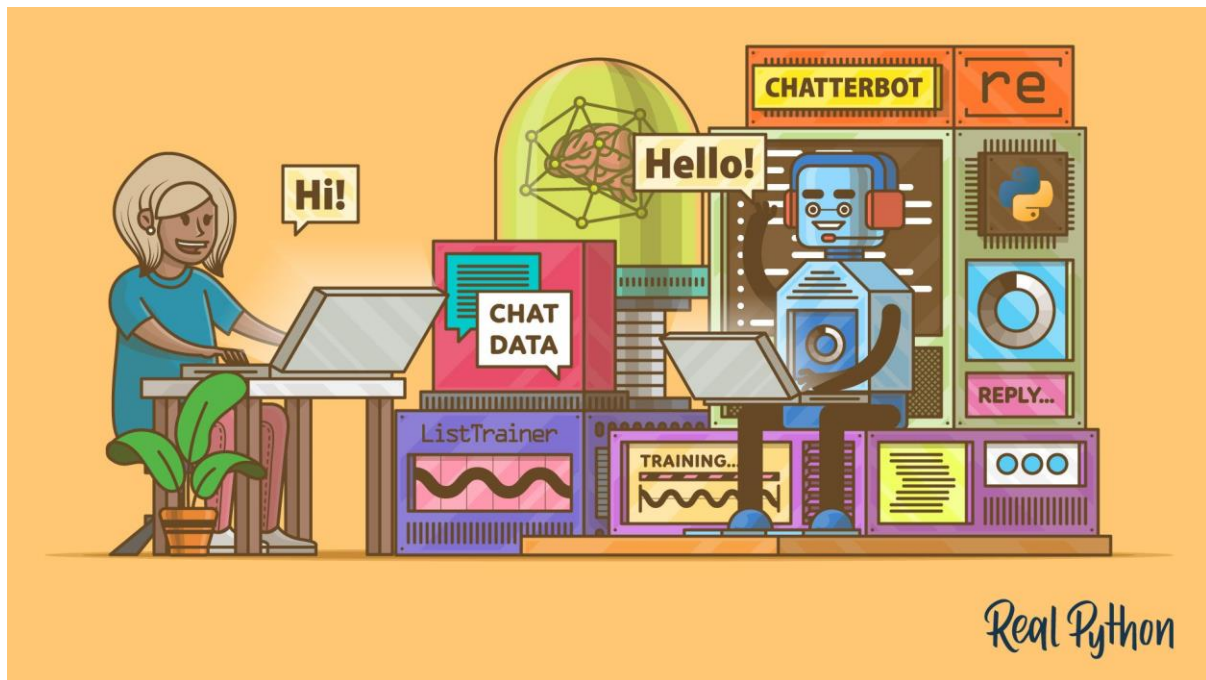
Avoid Complex Sentences. Keep your sentences short and straightforward. ...

Build a Neutral Tone for Your Chat bot

Don't Let Your Chat bot

Identify & Share Support Limitations to Set Right Expectations

Avoid Sending Big Messages for Seamless Reading Experience



INTEGRATION: Chat bot integration means you are connecting the chat bot with various platforms. It's an entire process to deploy the chat bot with various social platforms and applications. Step 1: Obtain API Keys from OpenAI. ...

Step 2: Technical Requirements and Considerations. ...

Step 1: Setup Open AI's Chat GPT API. ...

Step 2: Connect to the API. ...

Step 3: Add Chat GPT to Your Website's Backend. ...

Step 4: Create a Frontend for the Chat bot. ...



Step 5: Test the Integration.

TESTING AND IMPROVEMENT: To do this, you can employ feedback loops, conversational analysis, and continuous learning. Through feedback loops, you can ask customers for their opinion of the chat bot's service and use their responses to identify and address any issues or gaps.

Chat bots can be tested via a number of techniques – using RPA, Security testing, UFT testing, and many more. Additionally, there are various tools like chat bot useful for testing chat bots. For this piece, let's explore how to handle the chat bot using Selenium.

