Al Chatbot

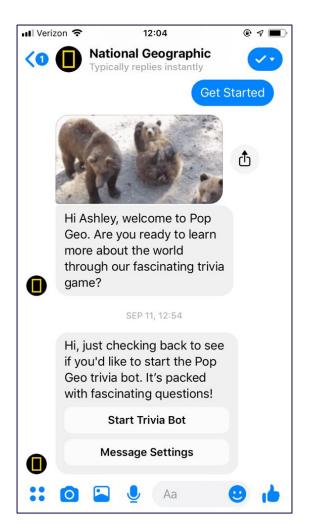
By GS APWE

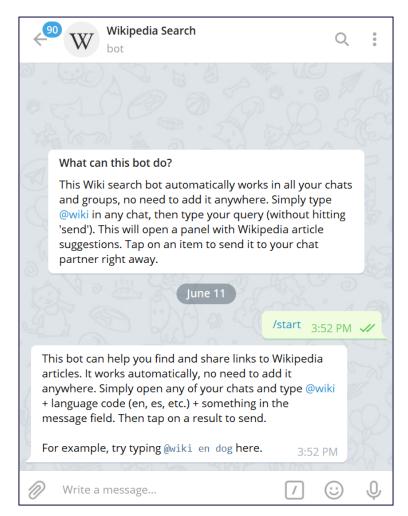




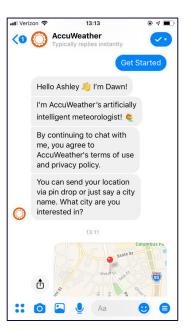
About chatbot

A script that keeps running and processes inputs from users to return outputs



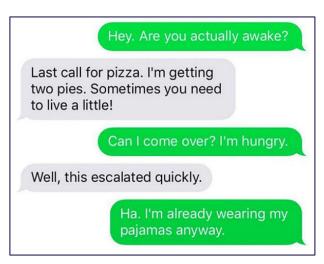






Command

Have a list of commands that the bot can understand (OCBC, DBS, IRAS, etc)



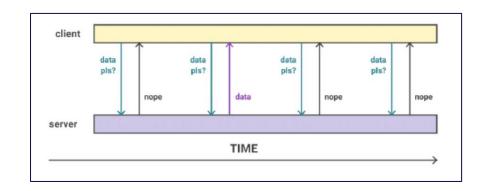
Natural Language

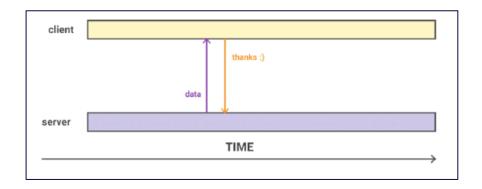
User can type in any texts

http://insomnobot3000.com/ by Casper

Types of chatbot

How can your bot receive messages?





Polling

Repeatedly send requests to the server to get new data. If there's new data, it's sent back; otherwise, nothing is returned

Webhook (not covered)

Server sends data to the bot as soon as it receives new data, and the bot must have a *listener* to listen to new data from the server

Telegram API

Simplest way to interact with the bot is through web browser. By visiting different URLs like below, we send different commands to the bot. There are two main commands that a bot needs:

command to

Get messages sent to your bot

https://api.telegram.org/bot<your-telegram-token>/getUpdates Specify the Indicate that we Specify the bot that we command we want to interact want to send the with Telegram API want to send

Send a reply to the user from your bot

https://api.telegram.org/bot<your-telegram-token>/sendMessage?chat_id=<chat-id>&text=helloWorld

Telegram API

```
async get_updates(offset=None, limit=None, timeout=None, allowed_updates=None, *,
read_timeout=None, write_timeout=None, connect_timeout=None,
pool_timeout=None, api_kwargs=None) [source]
```

Use this method to receive incoming updates using long polling.

https://docs.python-telegram-bot.org/en/stable/telegram.bot.html#telegram.Bot.get_updates

```
async send_message(chat_id, text, parse_mode=None, entities=None,
disable_notification=None, protect_content=None, reply_markup=None,
message_thread_id=None, link_preview_options=None, reply_parameters=None,
business_connection_id=None, *, allow_sending_without_reply=None,
reply_to_message_id=None, disable_web_page_preview=None, read_timeout=None,
write_timeout=None, connect_timeout=None, pool_timeout=None, api_kwargs=None)
[source]
```

Use this method to send text messages.

https://docs.python-telegram-bot.org/en/stable/telegram.bot.html#telegram.Bot.send_message

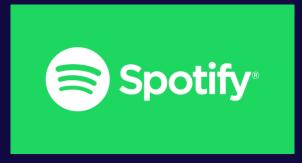


Time for hands-on practice!

Public APIs



https://skyscanner.github.io/slate/#api-documentation



https://developer.spotify.com/documentation/web-api/quick-start/



https://data.gov.sg/developer



https://developer.accuweather.com/apis



https://developers.facebook.com/docs/instagram-api/



https://developers.google.com/apis-explorer

Try out some bots in Telegram

@gamebot - play games with friends

@spotybot - play Spotify music

@AlertBot - reminder bot

@movieS4Bot - find movie recommendations