



Python Discord Bots

Day04

What if you could make your bots smarter?

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Discord Bots (extended cut) : So by now you've seen what the basics of what a discord bot can potentially do. But they still feel rigid. So how do you make them cooler, better, smarter? How do you make them user-friendly?

Today's lesson will cover all that and more!

PS: There's a bonus game creation that you can play with your bot as one of the questions!! 😊

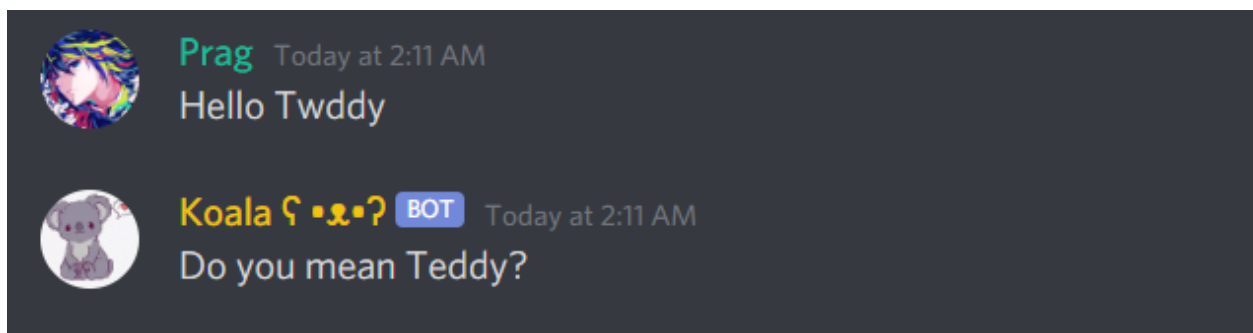
Exercise 01: Keyword recognition in user inputted string

	Difficulty:	★
	Objectives:	Create a bot that will recognize the words “Twddy”, “Taddy”, “Trddy” “Tnddy?” “Tmddy?” at any point in the user’s message and respond with “Did you mean Teddy?”
	Skills gained / utilised:	Improved understanding of lists and conditionals
	Resources:	https://docs.python.org/3/library/functions.html#any https://docs.python.org/3/tutorial/controlflow.html#for-statements https://docs.python.org/3/tutorial/datastructures.html
	Search keywords:	Compare, message, list, discord / (lists, if, in, for, any)
	Command required:	(It should respond based on the given keywords)







Code snippet:

```
import discord
```

Output example:



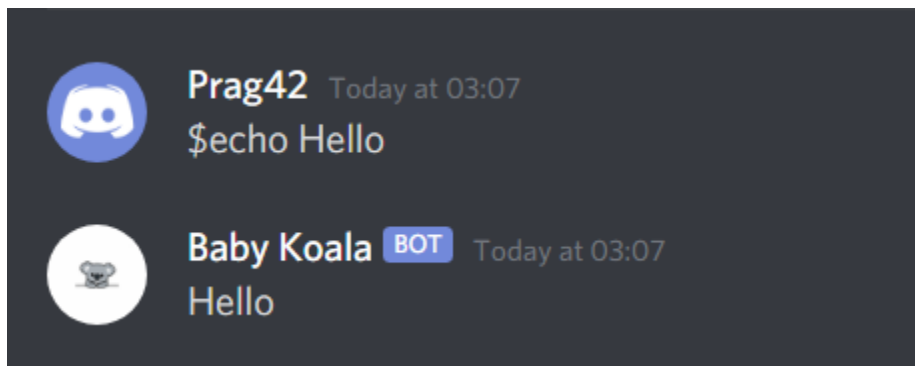
Exercise 02: Repeating a user's message

	Difficulty:	★ ★
	Objectives:	Create a command that enables the bot to repeat the user's message
	Skills gained / utilised:	Formatting strings via the bot
	Resources:	https://discordpy.readthedocs.io/en/latest/
	Search keywords:	echo bot discord py
	Command required:	\$echo







Code snippet:

```
import discord
```

Output example:



Exercise 03: Saying a message as the bot.

	Difficulty:	★ ★
	Objectives:	Create a command that allows you to “speak” as the bot
	Skills gained / utilised:	Echo-ing and Deletion of author messages
	Resources:	https://discordpy.readthedocs.io/en/latest/
	Search keywords:	echo bot discord py
	Command required:	\$Say

Code snippet:







```
import discord
...
await message.delete()
```

Output example:



Before & After

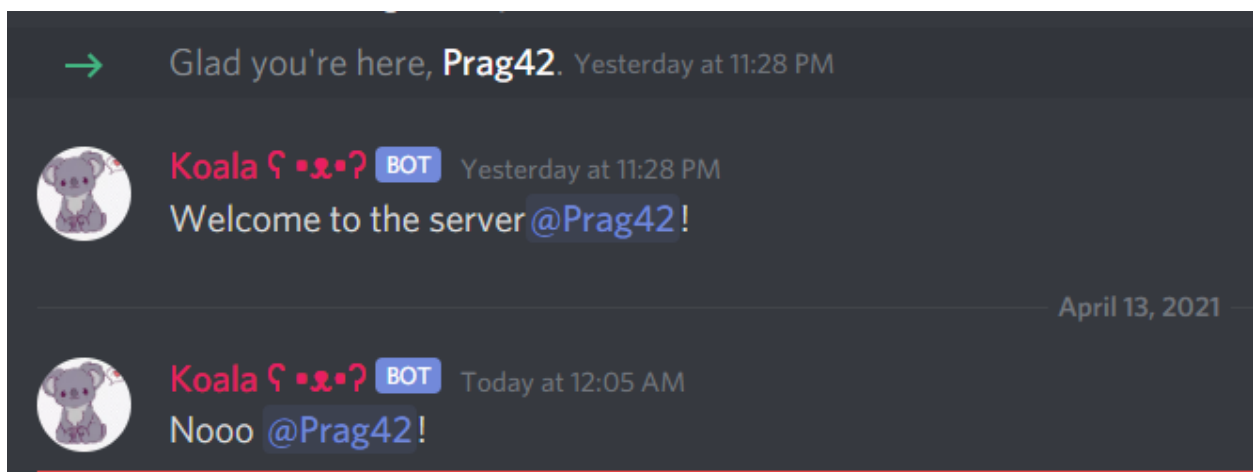
Exercise 04: Welcoming new users to the server

	Difficulty:	★ ★ ★
	Objectives:	Create a bot that should welcome a user when they enter the server and wish them goodbye when they leave the server
	Skills gained / utilised:	Increased understanding of discord py and its client
	Resources:	https://discordpy.readthedocs.io/en/stable/intents.html https://discordpy.readthedocs.io/en/latest/api.html#discord.on_member_join https://discordpy.readthedocs.io/en/latest/api.html#discord.on_member_remove
	Search keywords:	discord py welcomer on member
	Command required:	N/A







Code snippet:

```
...  
on_member_join(      )  
on_member_leave(     )
```

Output example:



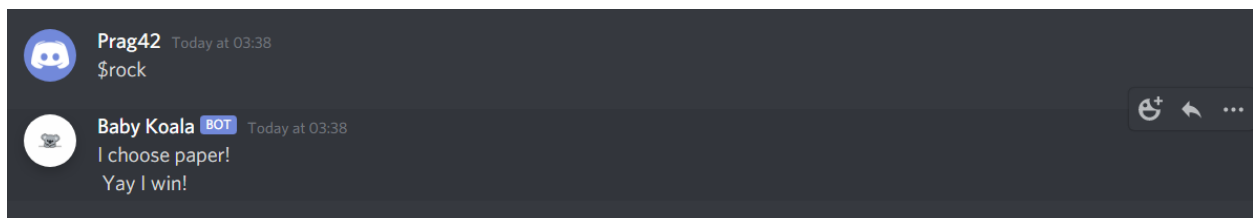
Exercise 05: Making a simple game using random

	Difficulty:	★★★★
	Objectives:	The bot should be able to play a simple game of rock, paper scissors with the user. (Bonus points if the bot can identify if it's a win/lose/tie)
	Skills gained / utilised:	Basic utility of certain libraries to create variation in response
	Resources:	https://docs.python.org/3/library/random.html
	Search keywords:	random python documentation / rps discord py
	Command required:	\$rock, \$paper, \$scissors







Code snippet:

```
import discord
import random
```

Output example:



Exercise 06: Adding a user-manual

	Difficulty:	★
	Objectives:	Create a help command that lists all the current list of available functions of your bot
	Skills gained / utilised:	Ability to write multi-line strings
	Resources:	https://docs.python.org/3/tutorial/introduction.html#strings
	Search keywords:	Python, multi, line, strings
	Command required:	\$help

Code snippet:

```
import discord
```

Output example:

