Code Bot "Hello World"

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So we've made a bot that lives! Let's give it function!

Let's make another event for our bot!

This time, it's going to respond to messages!

message that we can check!

First, let's check that the message sent wasn't the bot!

We're going to use what we already know, if statements!

Let's check:

- If the message is the bot, return to normal and don't do anything!
- Otherwise, we do nothing and move on!



Basically, check if the bot sent the message.

Checking the message

```
@client.event
           11
                  async def on_message(message):
           12
                     if message.author == client.user:
           13
                        return
           14
                             This gets who the author
                                                      Checks if it's EQUAL to
                               of the message is.
                                                            the client!
 If it is equal to the client,
return and stop this check.
```

If the message wasn't the client, we move on!

How do Discord bots know what messages to respond to?

Bots usually have a specific command key they look for!

Each bot is different! You get to choose your command key!

Some use #, \$, or @.

I've chosen to pick jp_

These are my initials before my actual command.

If you're working off of my Development Server, claim your command key here.

Now we can check the message for our command!

The line of code below checks if the message starts with 'jp_hello'.

```
if message.content.startswith('jp_hello'):
    This is the command I'm checking!
```

Command is true!

If this if statement is true in that the message does contain 'jp_hello'

Then we've received our command!

```
if message.content.startswith('jp_hello'):
    await message.channel.send('Hello World!')
```

Now we can message back to the channel "Hello World!"

Our code overall

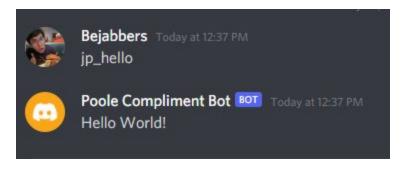
This code creates a bot that prints out "Hello World"!

```
main.py ×
         import discord
         import os
         my_secret = os.environ['TOKEN']
         client = discord.Client()
         @client.event
       □ async def on ready():
           print('We have logged in as {0.user}'.format(client))
    10
    11
         @client.event
         async def on message(message):
    12
    13
            if message.author == client.user:
    14
             return
    15
    16
            if message.content.startswith('jp hello'):
              await message.channel.send('Hello World!')
    17
    18
         client.run(my secret)
    19
```

Let's run it!

Once it says it's ready and running! Let's enter a command into our Discord server!

Once online, type your command! It should respond!



Lab: Discord Bot

- Expand the commands your bot can receive!
 - a. Be creative, add whatever you want!
- 2. For this lab, create the "hbd" command.
 - a. This command prints out the Happy Birthday song to the user!
- 3. Challenge
 - a. Print it out with the authors name!