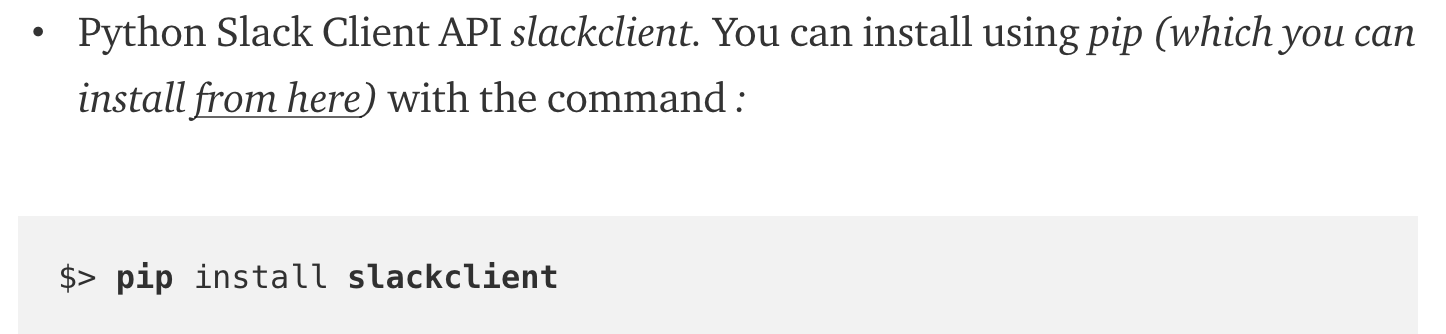
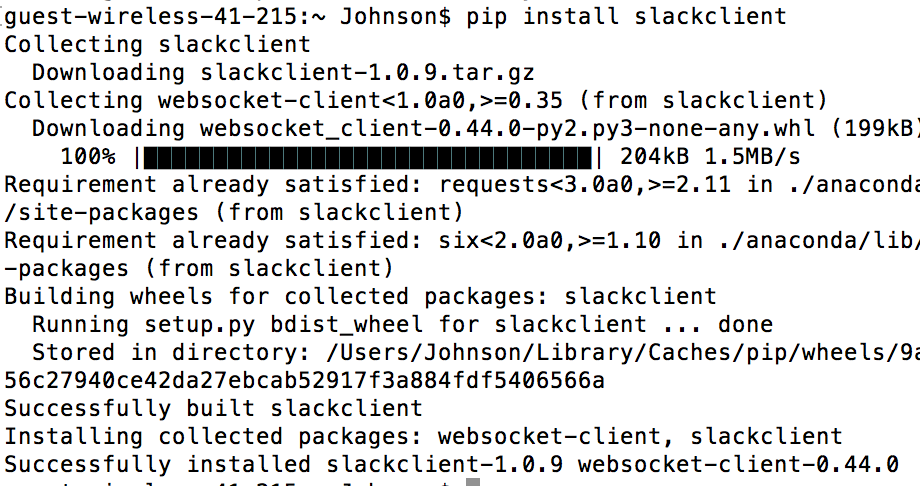
Tutorial link: <https://medium.com/@nidhog/how-to-make-a-chatbot-on-slack-with-python-82015517f19c>

1. install slackclient

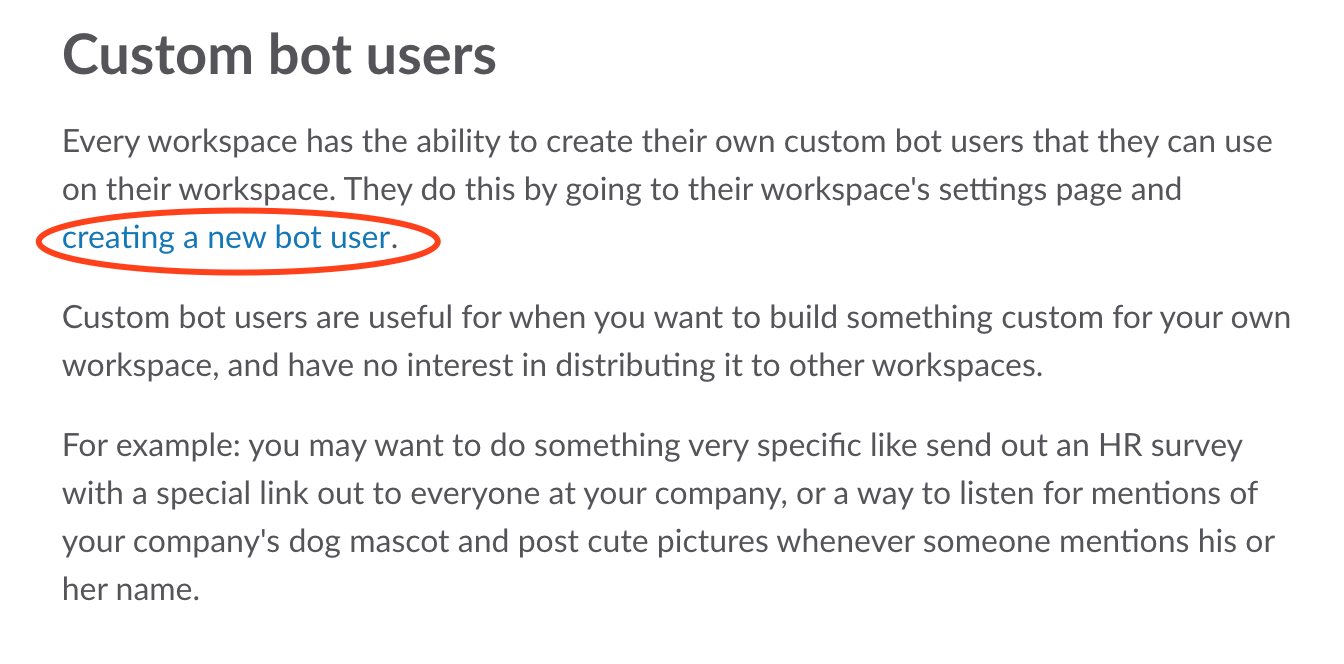
The result of my mac is like this:



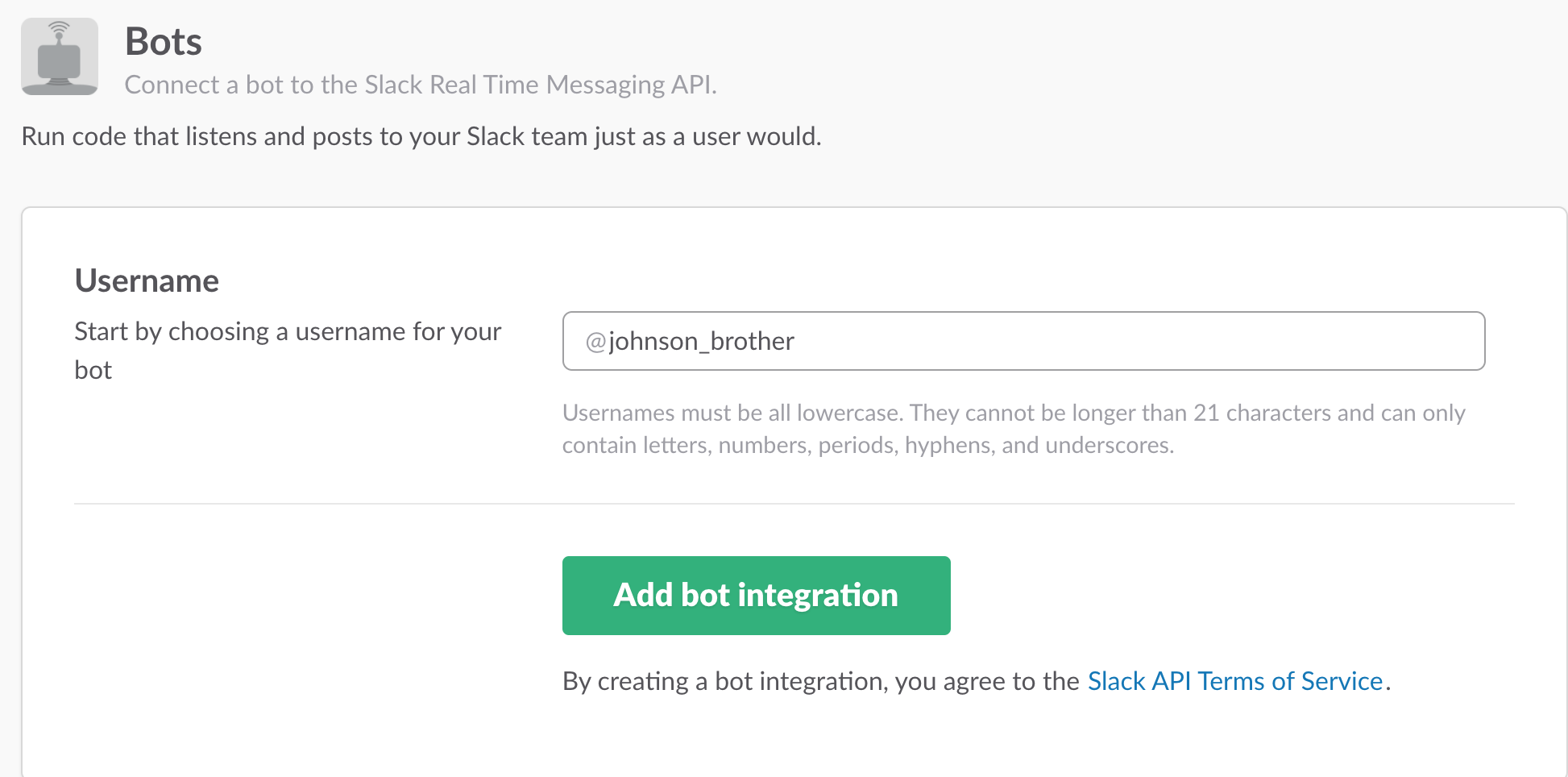
#### 2. Making the bot on Slack

Go to the [Slack API Bot User page](https://api.slack.com/bot-users" \t "_blank). <https://api.slack.com/bot-users>

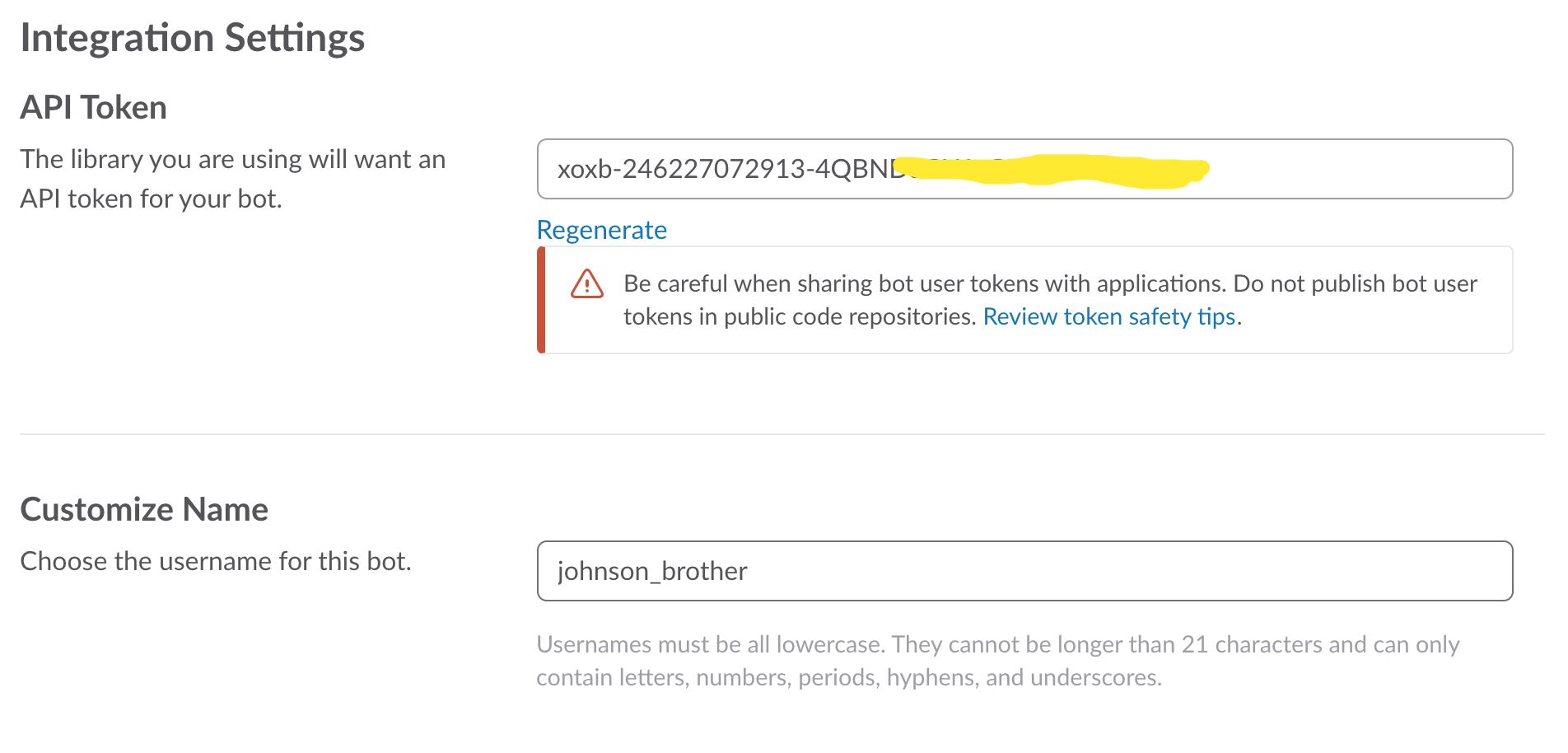
2.1 Scroll down to **Custom Bot Users** and click on [creating a new bot user](https://my.slack.com/services/new/bot" \t "_blank).



2.2 Enter the **Username**for the bot, then click on *Add bot integration*.

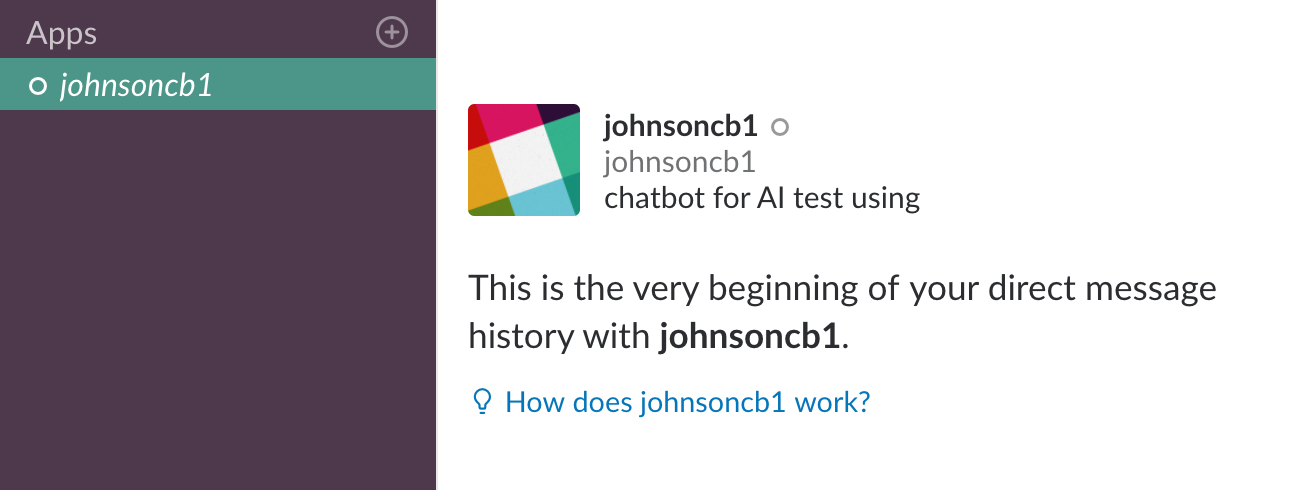


2.3 Now you should have an API Token that would appear on the next page and looks something like this:



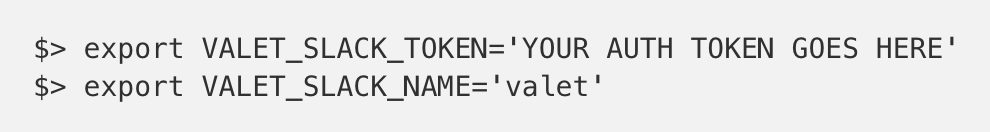
Optionally you can add a picture and a real name for your slackbot.

You should already be able to see it on Slack.



#### 3. Checking that everything works correctly

3.1 open terminal and change the path into a folder named chat\_bot\_slack(created by yourself), then input like this(change ”VALET” into your chatbot’s name):



Mine is like this:



$ export JOHNSONCB1\_SLACK\_TOKEN='xoxb-247635880038-4tWcKXqUFhuUxc2dbQ6H4hWG'

$ export JOHNSONCB1\_SLACK\_NAME='johnsoncb1'

3.2 Or create a *source.sh*file in your folder , then add

export JOHNSONCB1\_SLACK\_TOKEN='xoxb-247635880038-4tWcKXqUFhuUxc2dbQ6H4hWG'

export JOHNSONCB1\_SLACK\_NAME='johnsoncb1'

in your source.sh file, then input in terminal with the following: 

Mine works in this way:

$ source source.sh

3.3 Check that the authentication token works properly. make a *discover.py*file that contains the following:(so change JOHNSONCB1 into your chatbot’s name)

import os, slackclient

JOHNSONCB1\_SLACK\_NAME = os.environ.get('JOHNSONCB1\_SLACK\_NAME')

JOHNSONCB1\_SLACK\_TOKEN = os.environ.get('JOHNSONCB1\_SLACK\_TOKEN')

# initialize slack client

johnsoncb1\_slack\_client = slackclient.SlackClient(JOHNSONCB1\_SLACK\_TOKEN)

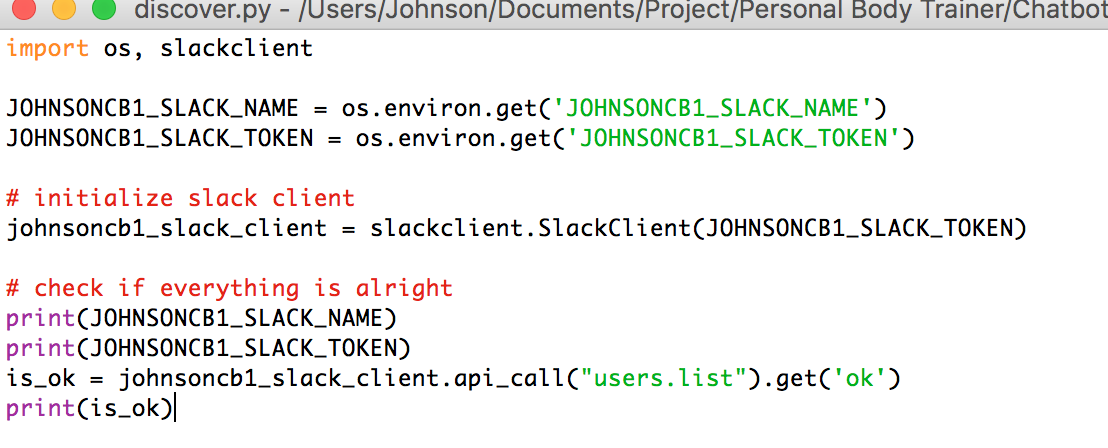
# check if everything is alright

print(JOHNSONCB1\_SLACK\_NAME)

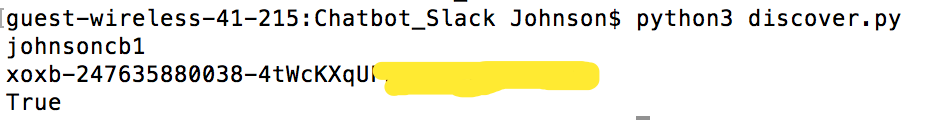
print(JOHNSONCB1\_SLACK\_TOKEN)

is\_ok = johnsoncb1\_slack\_client.api\_call("users.list").get('ok')

print(is\_ok)



The result of mine is shown as below:



3.4 find the bot id

add the following lines to our *discover.py*file(change JOHNSONCB1 into your chatbot’s name ):

# find the id of our slack bot

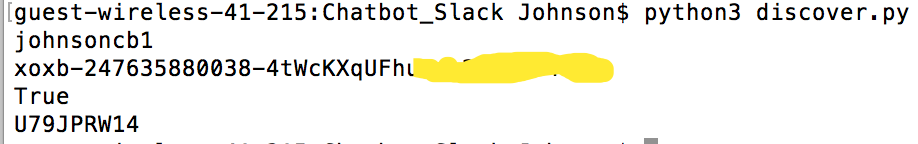
if(is\_ok):

for user in johnsoncb1\_slack\_client.api\_call("users.list").get('members'):

if user.get('name') == JOHNSONCB1\_SLACK\_NAME:

print(user.get('id'))

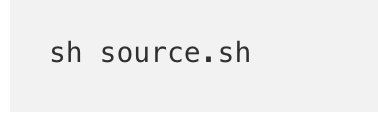
This is my result: U79JPRW14



3.5 We change the *source.sh*file to include the id of the chatbot:

export JOHNSONCB1\_SLACK\_ID='U79JPRW14'

3.6 of course we need to source it again



Mine works in this way(have to source the file everytime before you run your python file):

$ source source.sh

#### 4. Create a small chatbot can say hello and by

4.1 create a new python file *hellocb.py*containing the following:

import os, slackclient, time

import random

# delay in seconds before checking for new events

SOCKET\_DELAY = 1

# slackbot environment variables

JOHNSONCB1\_SLACK\_NAME = os.environ.get(' JOHNSONCB1\_SLACK\_NAME')

JOHNSONCB1\_SLACK\_TOKEN = os.environ.get(' JOHNSONCB1\_SLACK\_TOKEN')

JOHNSONCB1\_SLACK\_ID = os.environ.get(' JOHNSONCB1\_SLACK\_ID')

johnsoncb1\_slack\_client = slackclient.SlackClient(JOHNSONCB1\_SLACK\_TOKEN)

def is\_for\_me(event):

# TODO Implement later

return True

def handle\_message(message, user, channel):

# TODO Implement later

post\_message(message='Hello', channel=channel)

def post\_message(message, channel):

johnsoncb1\_slack\_client.api\_call('chat.postMessage', channel=channel,

text=message, as\_user=True)

def run():

if johnsoncb1\_slack\_client.rtm\_connect():

print('[.] johnsoncb1 is ON...')

while True:

event\_list = johnsoncb1\_slack\_client.rtm\_read()

if len(event\_list) > 0:

for event in event\_list:

print(event)

if is\_for\_me(event):

handle\_message(message=event.get('text'), user=event.get('user'), channel=event.get('channel'))

time.sleep(SOCKET\_DELAY)

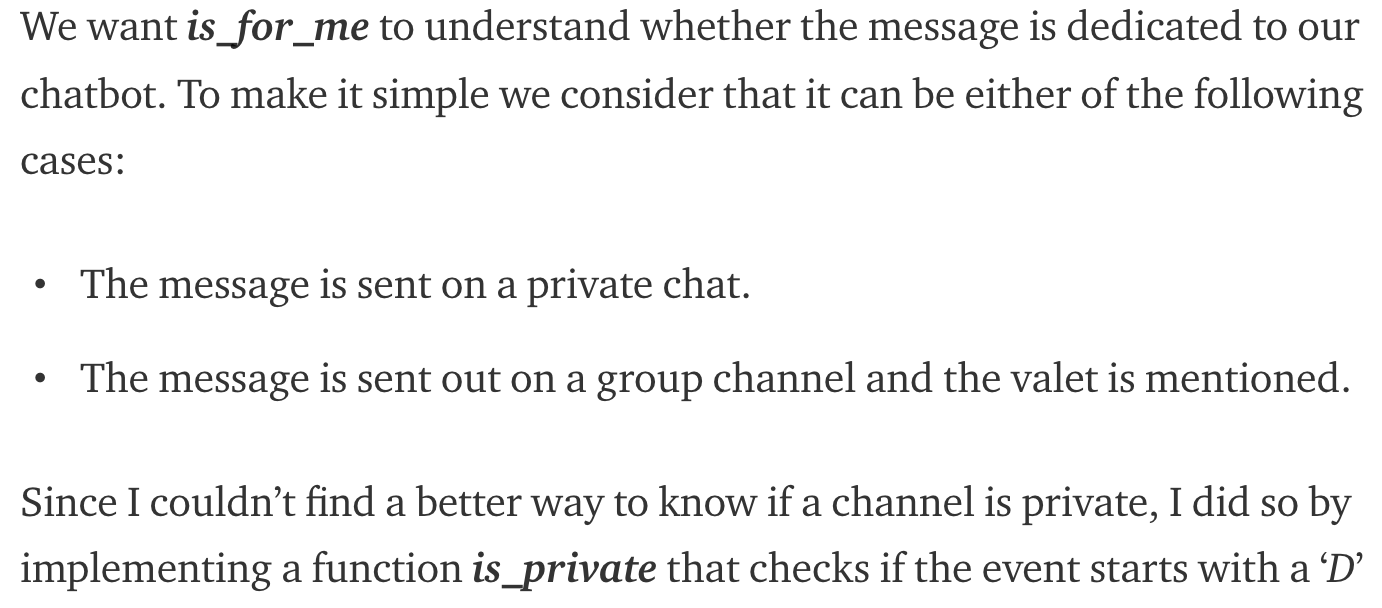
else:

print('[!] Connection to Slack failed.')

if \_\_name\_\_=='\_\_main\_\_':

run()

4.1.1 is\_for\_me function



go to <https://api.slack.com/events/message>

and understand how message were sent