


Telegram Messenger
Fast. Secure. Powerful.

★★★★☆ 6.7K

Telegram FZ-LLC

(No. 7) Social

Open




Instagram
Videos, creators & friends

★★★★★ 406K

Instagram, Inc.

(No. 3) Photo & Video

Open




WhatsApp Messenger
Simple. Reliable. Private.

★★★★★ 401K

WhatsApp Inc.

(No. 5) Social

Open




YouTube
Videos, Music and Live Streams

★★★★★ 647K

Google

(No. 12) Photo & Video

Open



TikTok-Global Video Community
Short-Form Video Platform

★★★★★ 118K

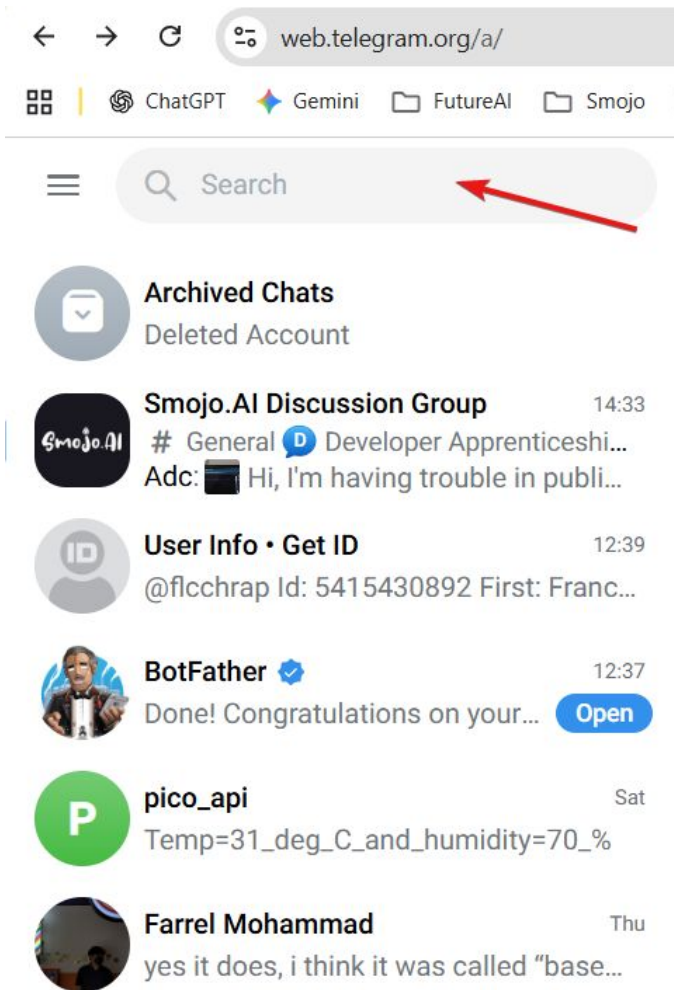
TikTok Ltd.

(No. 1) Entertainment

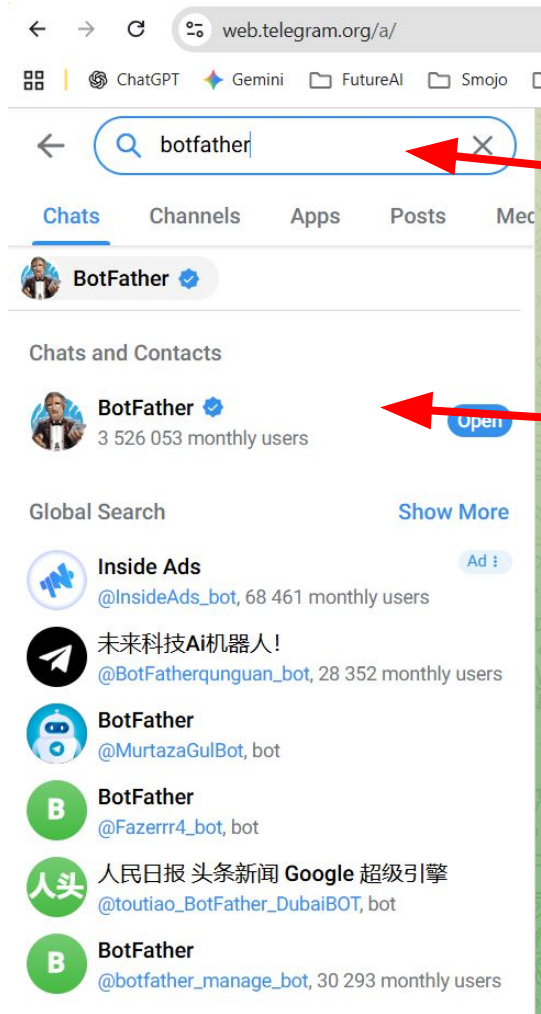
Get

In-App Purchases

1. Create an account in telegram.
2. On your mobile phone, go to
 - a. Playstore for Android, or
 - b. Appstore for iPhone
 - c. Download and install the app

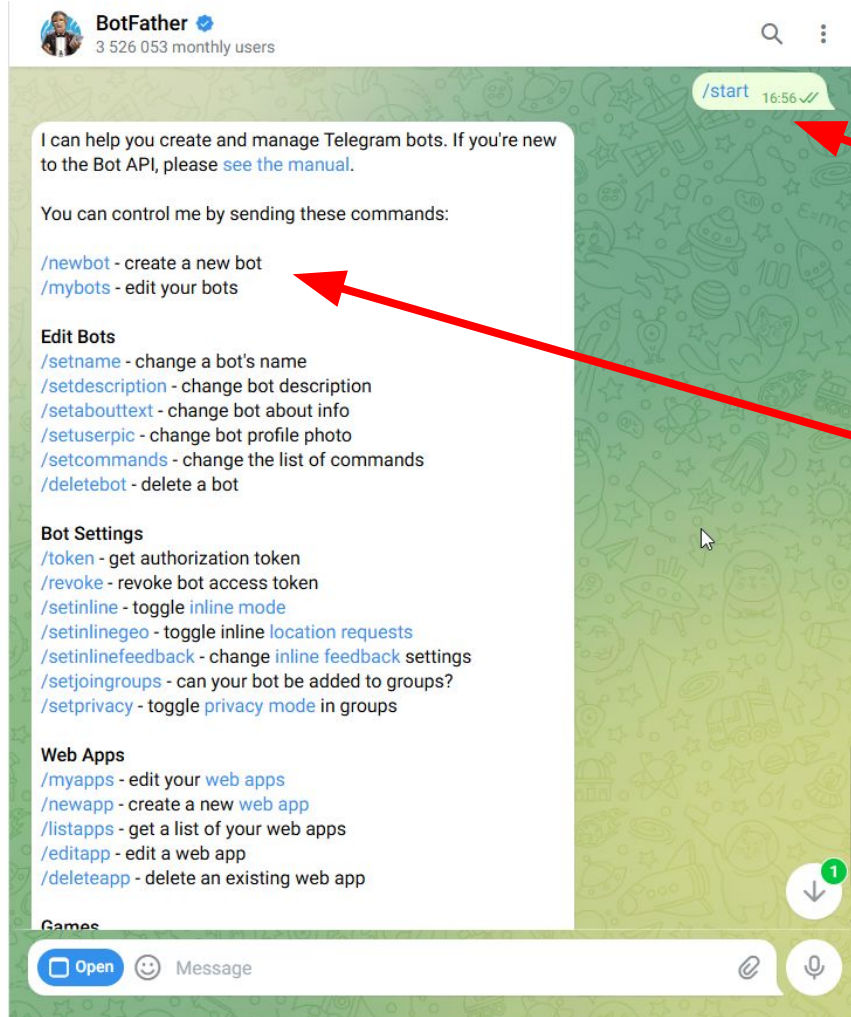
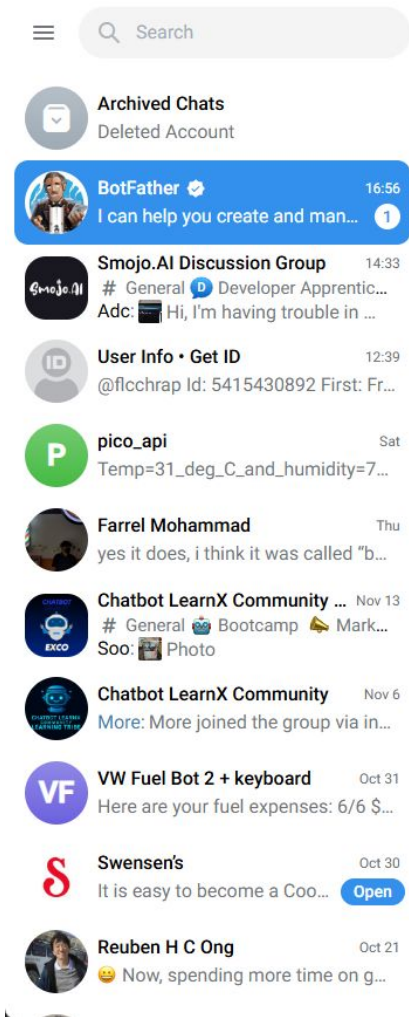


3. On the web browser or the app in your mobile phone, go to the search field.



4. Search "botfather"

5. Select the correct "botfather" that looks like this.



6. Key '/start

7. Click '/newbot

BotFather

3 526 053 monthly users



/newbot 12:36 ✓✓

Alright, a new bot. How are we going to call it? Please choose a name for your bot.

12:36

testpico 12:37 ✓✓

Good. Now let's choose a username for your bot. It must end in `bot`. Like this, for example: TetrisBot or tetris_bot.

12:37

testpico_bot 12:37 ✓✓

Sorry, this username is already taken. Please try something different.

12:37

testpico1_bot 12:37 ✓✓

Done! Congratulations on your new bot. You will find it at t.me/testpico1_bot. You can now add a description, about section and profile picture for your bot, see [/help](#) for a list of commands. By the way, when you've finished creating your cool bot, ping our Bot Support if you want a better username for it. Just make sure the bot is fully operational before you do this.

Use this token to access the HTTP API:

8360204549:AAFuu4mVGhQbAiaCb0sbD84J9RlyFIF7KBS

Keep your token **secure** and **store it safely**, it can be used by anyone to control your bot.

For a description of the Bot API, see this page: <https://core.telegram.org/bots/api>

12:37



Open



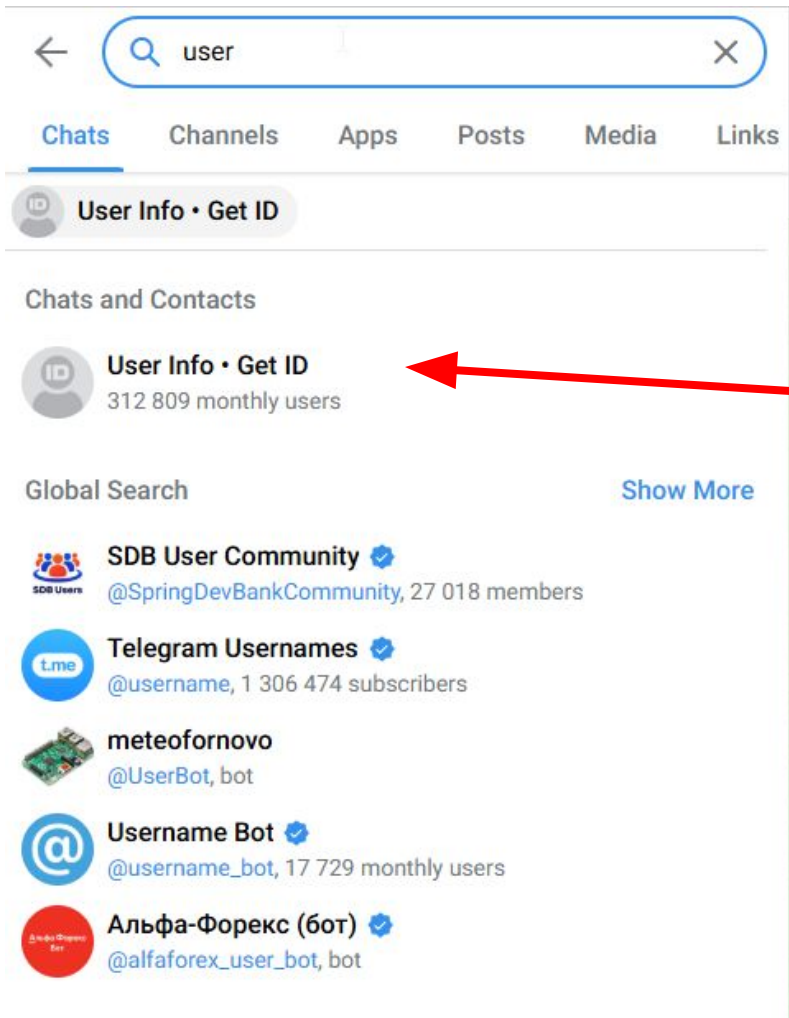
Message



8. Choose a name for your bot. This name will be displayed on top of the chat session.

9. Then, you will be asked to choose a username which must be unique and is not taken by someone yet.

10. You will be given the API token. Copy it for your micropython code in Thonny.



11. Go to search bar and key in user to search for “User Info Get ID” Bot

12. Click this contact to open chat.



User Info • Get ID

312 809 monthly users



Ad [what's this?](#)



0.1能量机器人

🔥🔥🔥 0.1TRX免费转U 🔥🔥🔥🔥 源头能量:抵扣USDT转账的所有TRX手续费, TRXUSDT转账零手续费, 一年省下一台路虎

Today

/start

12:39 ✓✓

@fl

Id: 541

First: Francis

Last: Lau

Lang: en 12:39



Message



13. Key “/start”

14. Your chat ID will be shown. Copy it for the micropython code in Thonny

wificonfig.py * x

```
22 # this is Telegram bot token for pico_api_bot
23 api_token='8360204549:AAFuu4mVGhQbAiaCb0sbD84J9RlyFIF7KBs|'
24 # this is telegram chat_id
25 telegram_chat_id='1234567890'
```

15. In Thonny, assign the API token and chat_ID accordingly.


```

dht11_telegram.py
30 print('Connected to :', wlan.ifconfig() )
31 print('This Pico Server IP Address :', wlan.ifconfig()[0])
32
33
34 bot_token=wifconfig.api_token
35 chat_id=wifconfig.telegram_chat_id
36
37 #logic / program
38 while True:
39     sensor.measure()
40     temperature = sensor.temperature() #I use my wife's hair dryer to increase the temperature :-))
41     humidity = sensor.humidity()
42     print(temperature,humidity)
43
44     if temperature > 30:
45         #this is the message we are going to send to our whatsapp number
46         #there should be no spacing in the message. otherwise you get an send request error
47
48         # f-string - use chatGPT to find out about f string if you are unsure what is happening here
49         message=f'Temp={temperature}_deg_C_and_humidity={humidity}_%'
50         #this is the API given to us by
51         url = f'https://api.telegram.org/bot{bot_token}/sendMessage?chat_id={chat_id}&text={message}'
52         response = requests.get(url)
53
54         # check if it was successful
55         if (response.status_code == 200):
56             print('Message Delivered!')
57         else:
58             print('Error')
59             print(response.text)
60
61     sleep(15) #measure temp and humidity every 15 seconds. CallMeBot will protest if we send too many
62

```

16. In the main python file, you only need to update the changes to the code marked in red.

For your convenience, copy and Paste the url below into your code. If copy-paste does not copy exact characters, then type in the url instead.

`url = f'https://api.telegram.org/bot{bot_token}/sendMessage?chat_id={chat_id}&text={message}'`

17. Everything else coded for Telegram and Whatsapp remains the same. The chat_ID for Telegram is like the phone number used in whatsapp.

Using Telegram

```
dht11_telegram.py
30 print('Connected to :', wlan.ifconfig() )
31 print('This Pico Server IP Address :', wlan.ifconfig()[0])
32
33
34 bot_token=wifconfig.api_token
35 chat_id=wifconfig.telegram_chat_id
36
37 #logic / program
38 while True:
39     sensor.measure()
40     temperature = sensor.temperature() #I use my wife's hair dryer to increase the temperature :-
41     humidity = sensor.humidity()
42     print(temperature,humidity)
43
44     if temperature > 30:
45         #this is the message we are going to send to our whatsapp number
46         #there should be no spacing in the message. otherwise you get an send request error
47
48         # f-string - use chatGPT to find out about f string if you are unsure what is happening here
49         message=f'Temp={temperature}_deg_C_and_humidity={humidity}_%'
50         #this is the API given to us by
51         url = f'https://api.telegram.org/bot{bot_token}/sendMessage?chat_id={chat_id}&text={message}'
52         response = requests.get(url)
53
54         # check if it was successful
55         if (response.status_code == 200):
56             print('Message Delivered!')
57         else:
58             print('Error')
59             print(response.text)
60
61     sleep(15) #measure temp and humidity every 15 seconds. CallMeBot will protest if we send too many
62
```

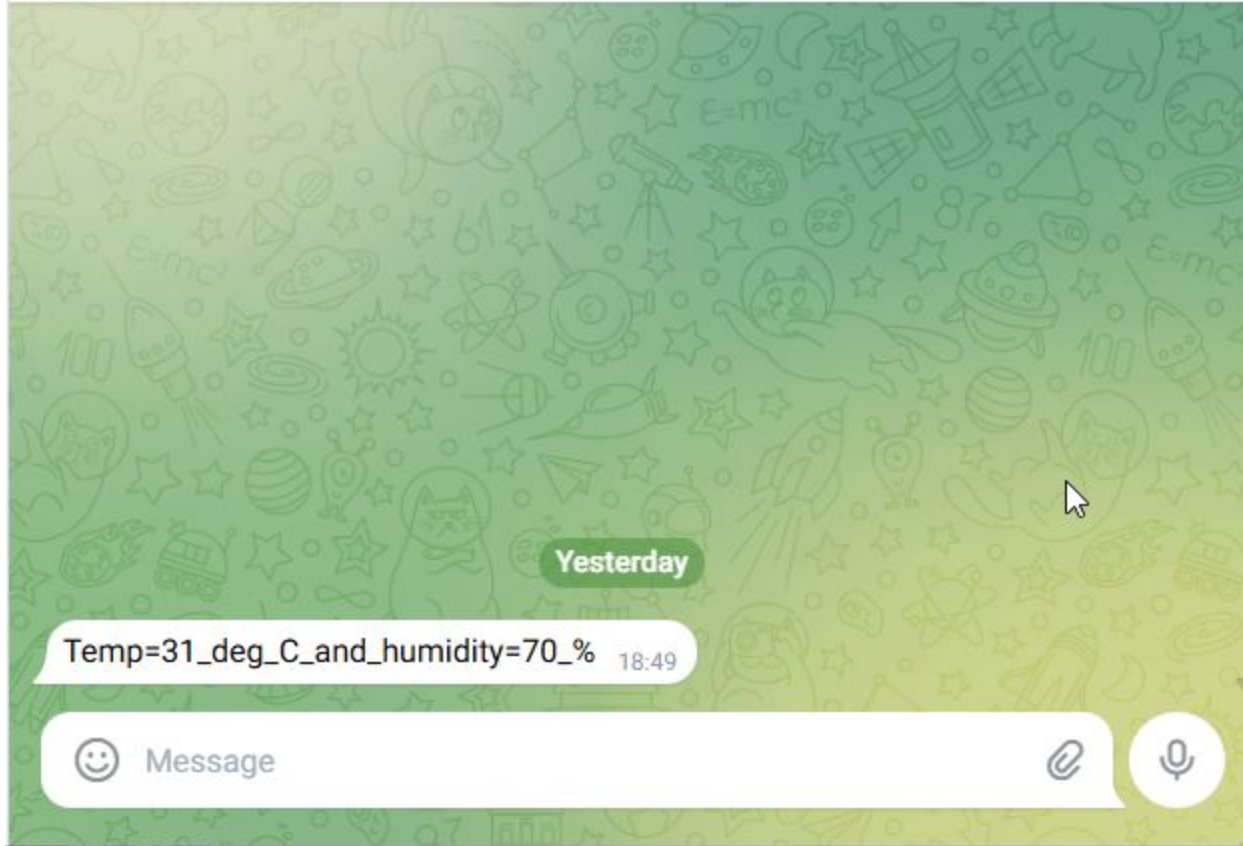
Using Whatsapp

```

30 print('Connected to :', wlan.ifconfig() )
31 print('This Pico Server IP Address :', wlan.ifconfig()[0])
32
33
34 api_key=wifconfig.whatsapp_api_key
35 phone_number=wifconfig.whatsapp_phone_no
36
37 #logic / program
38 while True:
39     sensor.measure()
40     temperature = sensor.temperature() #I use my wife's hair dryer to increase the temperature :-
41     humidity = sensor.humidity()
42     print(temperature,humidity)
43
44     if temperature > 30:
45         #this is the message we are going to send to our whatsapp number
46         #there should be no spacing in the message. otherwise you get an send request error
47
48         # f-string - use chatGPT to find out about f string if you are unsure what is happening here
49         message=f'Temp={temperature}_deg_C_and_humidity={humidity}_%'
50         #this is the API given to us by CallMeBot
51         url = f'https://api.callmebot.com/whatsapp.php?phone={phone_number}&text={message}&apikey={api_key}'
52         response = urequests.get(url)
53
54         # check if it was successful
55         if (response.status_code == 200):
56             print('Message Delivered!')
57         else:
58             print('Error')
59             print(response.text)
60
61     sleep(15) #measure temp and humidity every 15 seconds. CallMeBot will protest if we send too many messag
62
```



testpico
bot



18. The message from the microcontroller will be delivered to you via this bot.

