

## AI Encyclopedia-You asked I Pointed

Before running the function, you need to close the App and large programs. For the closing method, refer to [4. Preparation] - [1. Manage APP control services].

## 1. Function Description

After the program starts, ask the large model which word on the desktop can represent the object on the desktop. After thinking, the large model will reply with the English word that can represent the object, and the program will control the robotic arm to point to that word.

## 2. Startup

Taking the text version as an example, users with Jetson-Nano mainboard version need to enter the docker container first and then input the following command. Users with Orin mainboard can directly open the terminal and input the following command:

```
ros2 launch largemodel largemodel_control.launch.py text_chat_mode:=True
```

Then open a second terminal and input the following command:

```
ros2 run text_chat text_chat
```

Then input "Which English word can represent the object on the desktop" in the text\_chat terminal and press Enter; if it's the voice version, wake up the voice module and directly say to the voice module "Which English word can represent the object on the desktop?", then wait for the large model to think and reply, as shown in the figure below:

[illegible]

Then the robotic arm will point to the word Apple:



### 3. Task Planning

1. Call `seehat()` to observe the environment;
2. Reply with what objects are on the desktop;
3. Call `seehat()` to check if there are English words representing the desktop objects;
4. Call `seehat()` to get the position of the object's English word;
5. Call the `point_to()` function to point to the English word.